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DEVELOPMENT OF AIR FORCE FLIGHT SAFETY MODELS

Volume 10

B-52G, B-52H

AIRCRAFT

November 1975

Prepared for

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

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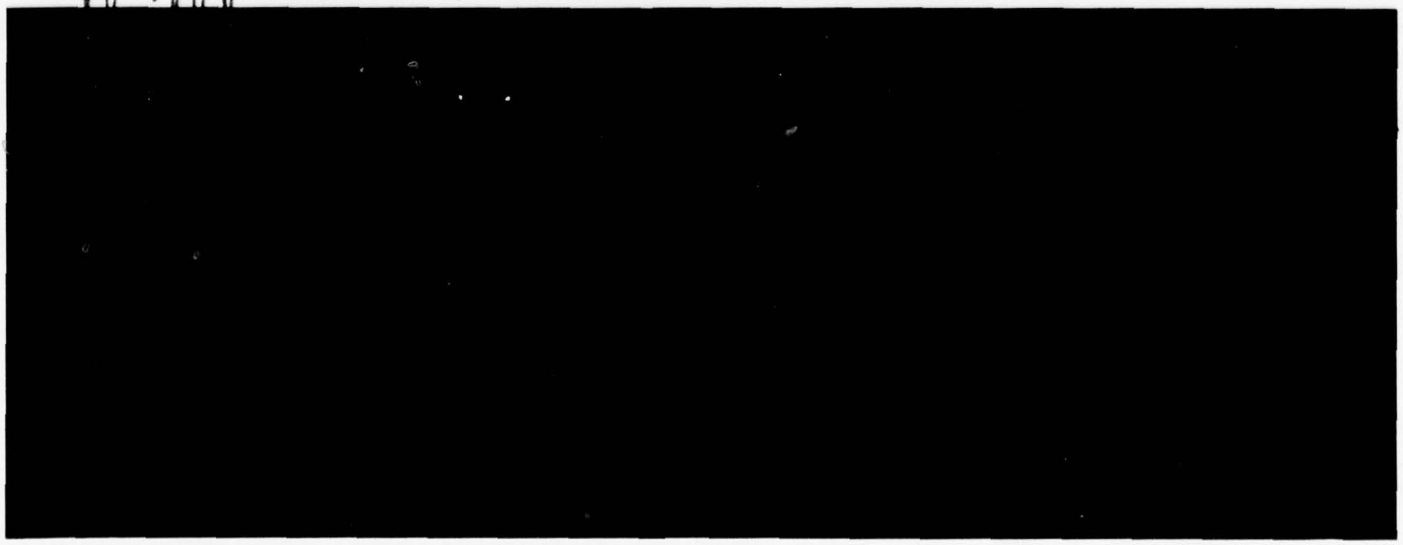

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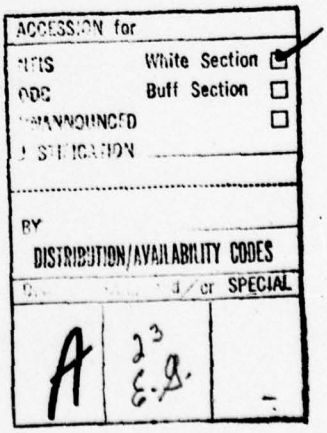
ABSTRACT

A general description of the Flight Safety Prediction Technique, and the documentation associated with its specific application to the B-52G and B-52H aircraft, are presented.



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.

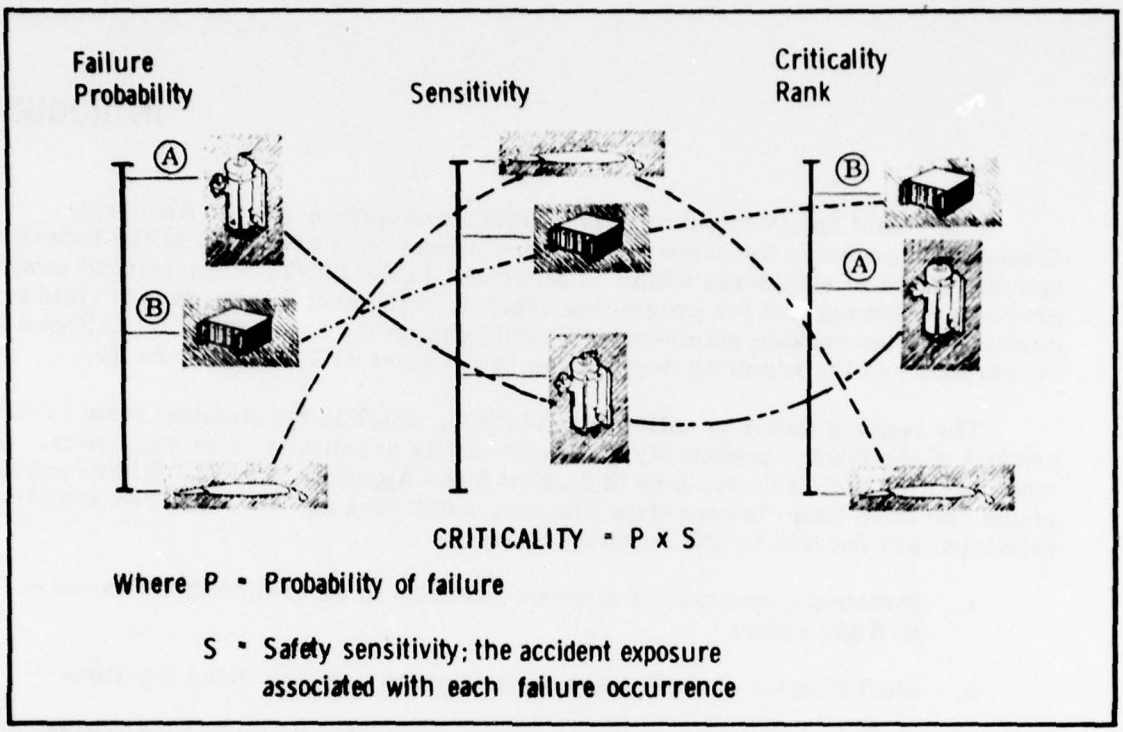


Figure 1-1. Example of Criticality Ranking Process

In this report, Section 4 and Appendix D pertain specifically to the B-52G and B-52H aircraft. The remainder of the document provides support information that will make the B-52 data, and the method by which the data were obtained, more meaningful to the general reader.

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 models for the B-52G and B-52H aircraft were 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 B52G and B-52H 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:

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

where

$P(\mathcal{A}, j)$ = Probability of an accident due to failure of just the j^{th} element*

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

$P(\mathcal{A}|j)$ = Probability of an accident given that the j^{th} element fails.

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

a. The criticality of the j^{th} element is an estimate of $P(\mathcal{A}, j)$

b. The sensitivity of the j^{th} element is an estimate of $P(\mathcal{A}|j)$

*In this and subsequent discussions, unless otherwise stated, expressions such as "failure of the j^{th} element" should be interpreted to mean: failure of only the j^{th} 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:

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

where

N = Number of mission phases

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

$P(\mathcal{A}|j,k)$ = The j^{th} element's sensitivity in the k^{th} 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 $P(\mathcal{A}|j,k)$, 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 $[P(\mathcal{A}|j)]$. 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 $[P(\mathcal{A}|j)]$ 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.

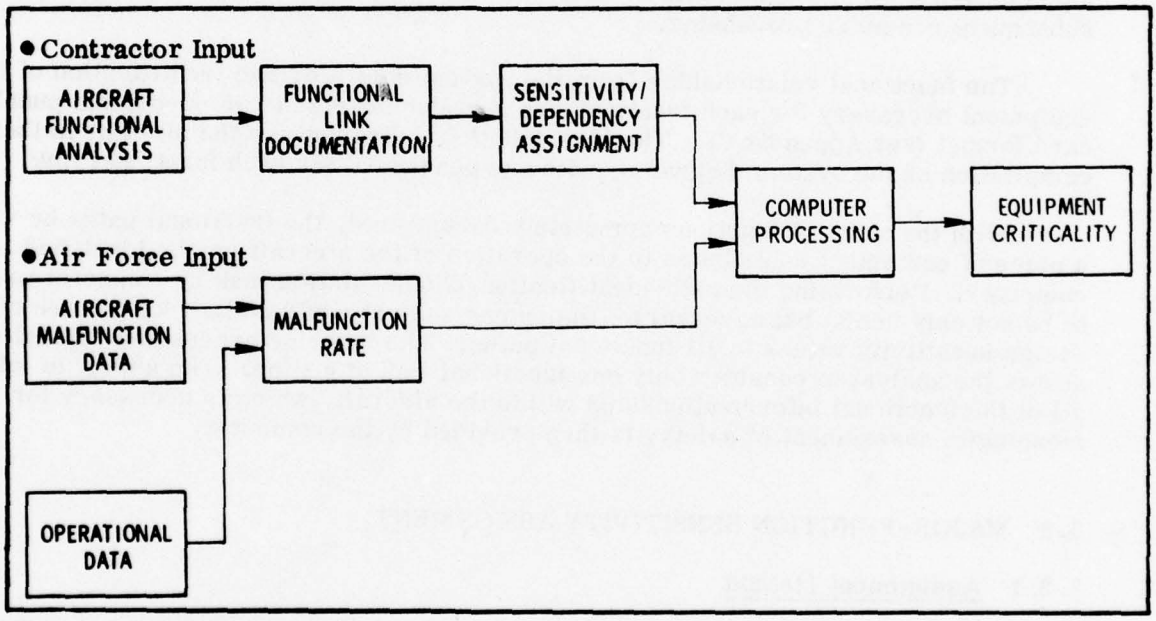


Figure 3-1. Activities and Data Inputs to Flight Safety Criticality Assessment

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.

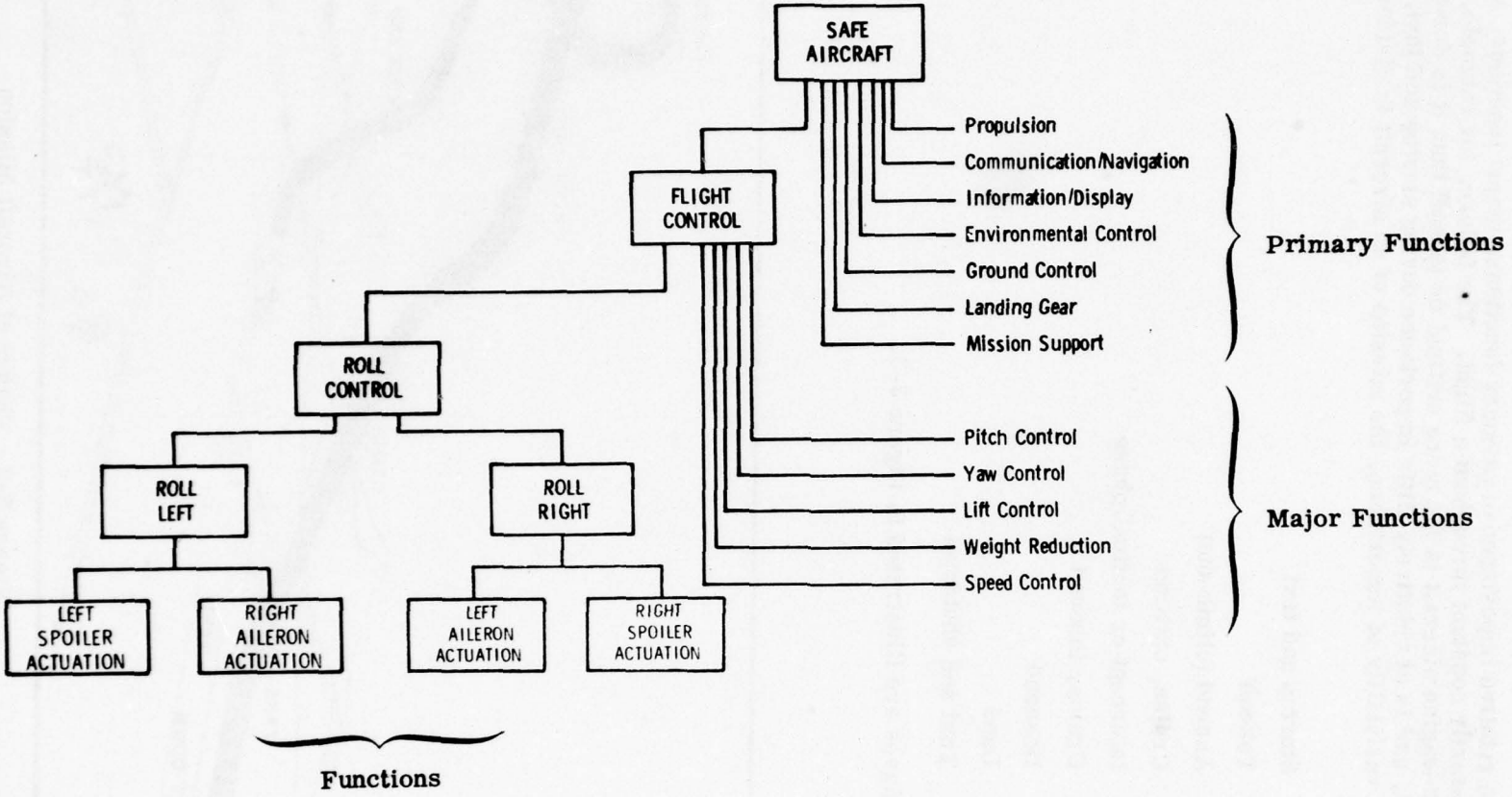


Figure 3-2. Hierarchical Structure of Aircraft Functions

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.

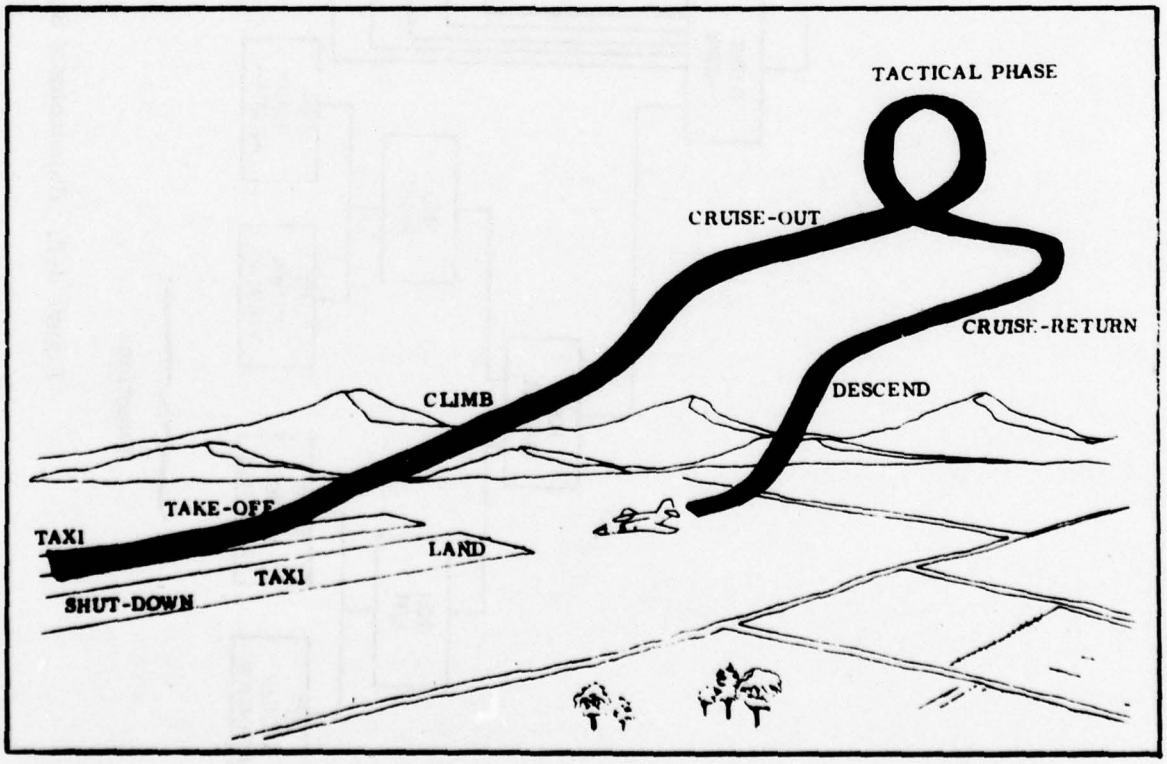


Figure 3-3. Phases of Aircraft Mission

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
9	Four of six 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
B-52G AND B-52H MODEL DEVELOPMENT

The FSPT models for the B-52G and B-52H aircraft were developed concurrently. Model development was initiated in May 1974, and the systems modeled in accordance with the contract modification of June 1973 were submitted for "G095" computer edit at SA/ALC in August 1974.

The aircraft flight manual and maintenance technical orders provided the information on aircraft system operation. The model developed represents the B-52G and B-52H aircraft configured to the latest time compliance technical orders (TCTOs) documented in the manuals supplied by SA/ALC. Tables 4-1 and 4-2 list the manuals and their revision status applicable to the developed model.

In March 1973, a seminar was conducted at the Oklahoma City 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 B-52 and A-7D modeling efforts.

The modeling of the B-52 fuel system required the use of a new provisory factor to accommodate the partial redundancy situation unique to this aircraft. The partial redundancy provisory factor, used with each of the eight engines, was coded "8" to indicate that any four of the eight engines were needed. The fuel for any of the four nacelles is common for both engines in that nacelle. Therefore, the loss of fuel to any nacelle would result in loss of two engines. To accommodate this, a provisory factor coded "9" was introduced to mean that if any three or more of the engines on the remaining three nacelles have failed, then the fuel to the subject nacelle is required for the safety of the aircraft.

A single functional documentation deck having "52" in columns 1, 2 was used for the two versions of the B-52 aircraft. Cards having a blank in column 3 are common to both aircraft. When the common cards are combined with those having a "G" in column 3, the resulting deck documents the B-52G. Similarly the common cards together with the cards containing an "H" in column 3 document the B-52H aircraft.

The B-52G and B-52H safety models were 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 reviews 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 documentating an FSPT aircraft model. Appendix D presents the FSPT documentation for the B-52G and B-52H aircraft, which covers both the OC/ALC and ARINC Research portion of the model.

TABLE 4-1. B-52G SYSTEM DOCUMENTATION

Publication No.	Title	Revision/Date
1B-52G-1	Flight Manual	Change 24, 15 May 1972
1B-52B-2-1	General Airplane	Change 35, 20 Aug 1973
1B-52G-2-2	Ground Handling, Servicing and Airframe Maintenance	Change 50, 10 Oct 1973
1B-52G-2-3	Utility Systems	Change 34, 15 Sep 1973
1B-52F-2-4	Power Plant	Change 24, 15 Jul 1973
1B-52G-2-8	Fuel System	Change 27, 15 Oct 1973
1B-52G-2-10	Landing Gear	Change 36, 15 Nov 1973
1B-52B-2-11	Flight Controls	Change 35, 20 Oct 1973
1B-52G-2-11	Instruments	Change 50, 15 Nov 1973
1B-52G-2-12	Electrical Systems	Change 52, 1 Nov 1973
1B-52B-2-14	Hydraulic Systems	Change 43, 1 Dec 1973
1B-52G-2-14	Airplane System Wiring Diagrams and Data	Change 9, 15 Sep 1972
1B-52G-2-20	Electronic Warfare Systems	Change 37, 15 Mar 1973
1B-52G-2-22	Fire Control Systems	Change 43, 1 Aug 1973
1B-52B-2-24	Electronic Communication System	Change 41, 30 Jun 1973
1B-52B-2-25	Electronic Navigation/Recognition Systems	Change 57, 15 Jul 1973

TABLE 4-1. (Cont)

Publication No.	Title	Revision/Date
1B-52B-2-26	Compass Systems	Change 37, 1 Sep 1973
1B-52G-2-26	Bombing-Navigational System	Change 1, 1 Dec 1973
1B-52B-2-27	Autopilot and Automatic Flight Control System	Change 31, 15 Nov 1973
1B-52B-2-30	Camera Systems	Change 31, 1 Apr 1973
1B-52B-2-31	Bomb Release Systems	Change 33, 31 Jul 1973
1B-52C-2-36	Automatic Astrocompass	Change 16, 30 Mar 1973
1B-52G-2-40	Stability Augmentation System	Change 11, 1 Dec 1973
1B-52B-06	Work Unit Code Manual	Change 2, 1 Jan 1974

TABLE 4-2. B-52H SYSTEM DOCUMENTATION

Publication No.	Title	Revision/Date
1B-52H-1	Flight Manual	Change 23, 14 May 1972
1B-52B-2-1	General Airplane	Change 35, 20 Aug 1973
1B-52G-2-2	Ground Handling, Servicing and Airframe Maintenance	Change 50, 10 Oct 1973
1B-52G-2-3	Utility Systems	Change 34, 15 Sep 1973
1B-52H-2-7	Power Plant	Change 25, 15 Nov 1973
1B-52G-2-8	Fuel System	Change 27, 15 Oct 1973
1B-52B-2-10	Landing Gear	Change 36, 15 Nov 1973
1B-52B-2-11	Flight Controls	Change 35, 20 Oct 1973
1B-52G-2-11	Instruments	Change 50, 15 Nov 1973
1B-52G-2-12	Electrical Systems	Change 52, 1 Nov 1973
1B-52B-2-14	Hydraulic Systems	Change 43, 1 Dec 1973
1B-52G-2-14	Airplane System Wiring Diagrams and Data	Change 9, 15 Sep 1972

TABLE 4-2. (Cont)

Publication No.	Title	Revision/Date
1B-52G-2-20	Electronic Warfare Systems	Change 37, 15 Mar 1973
1B-52H-2-22	Fire Control System	Change 28, 1 Sep 1973
1B-52B-2-24	Electronic Communication Systems	Change 41, 30 Jun 1973
1B-52B-2-25	Electronic Navigation/Recognition Systems	Change 57, 15 Sep 1973
1B-52B-2-26	Compass Systems	Change 37, 1 Sep 1973
1B-52G-2-26	Bombing-Navigational System	Change 1, 1 Dec 1973
1B-52B-2-27	Autopilot and Automatic Flight Control System	Change 31, 15 Nov 1973
1B-52B-2-30	Camera Systems	Change 31, 1 Apr 1973
1B-52B-2-31	Bomb Release Systems	Change 33, 31 Jul 1973
1B-52C-2-36	Automatic Astrocompass	Change 16, 30 Mar 1973
1B-52G-2-40	Stability Augmentation System	Change 11, 1 Dec 1973
1B-52B-06	Work Unit Code Manual	Change 2, 1 Jan 1974

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

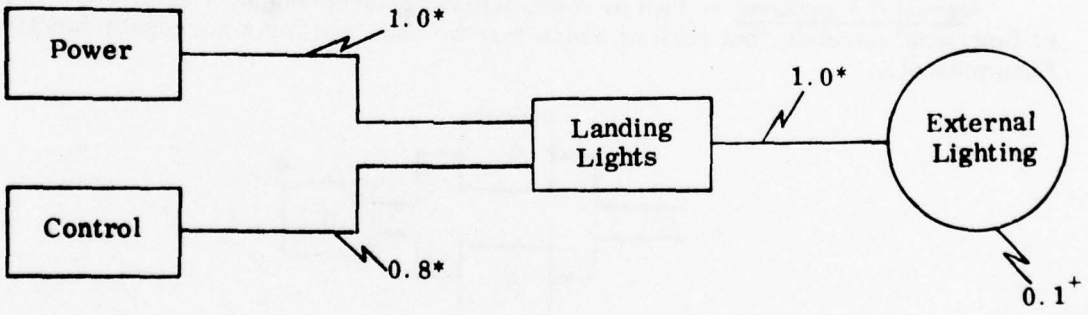
Major functions

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.



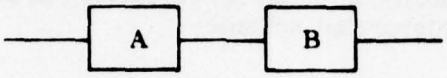
*Link dependencies
+Functional sensitivity

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.

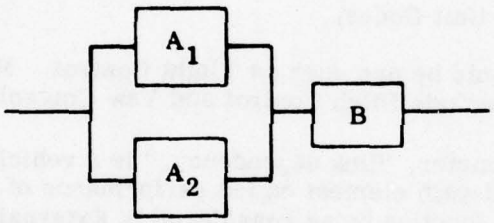
Three principal types of functional relationship--series, redundant, and parallel--were identified as representing the major forms to consider in modeling element sensitivity.

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



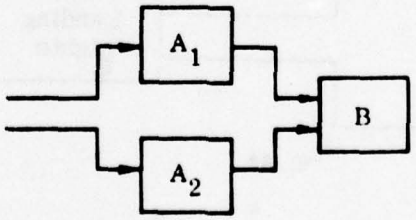
which indicates that outside of its own elements, the success of function B is only affected by the success of function A.

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.

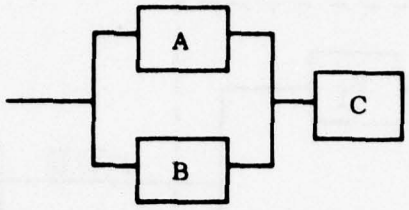
Parallel Functions – Two or more functions independent of each other in terms of functional success, but each of which may be required for a successor function. Schematically,



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,

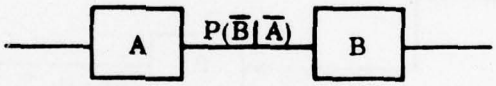


we can say that A and B are in a functionally redundant configuration if the success probability of C is the same if 1) A and B are successful, 2) A only is successful, or 3) B only is successful. If, for example, C is more likely to be successful if both A and B are successful, rather than A or B alone,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

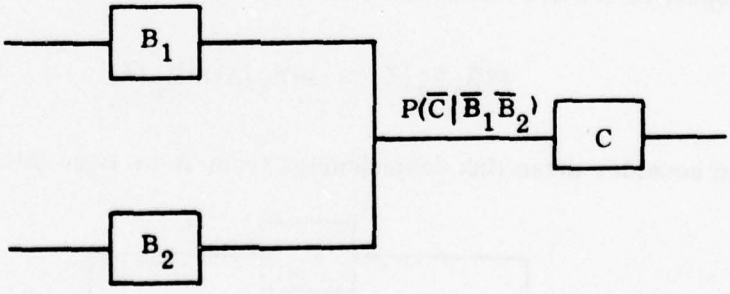
Link dependency is the conditional probability of a functional failure, given the failure of immediate predecessor functions. The link dependencies applicable to the three basic designs defined above are shown below.

Series Relationship

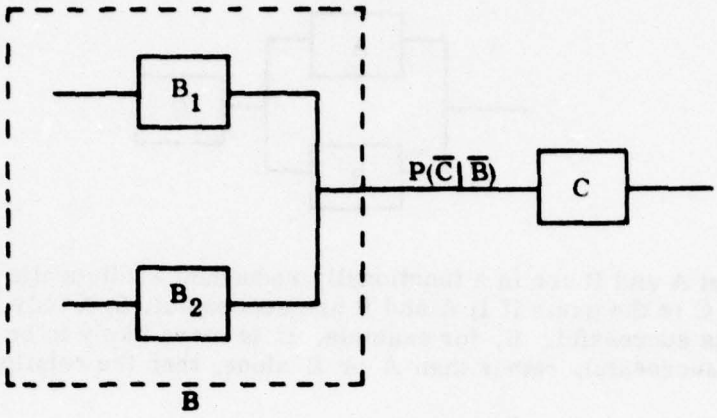


Link dependency = $P(\overline{B}|\overline{A})$ = probability that B fails given that A fails.

Functional Redundancy

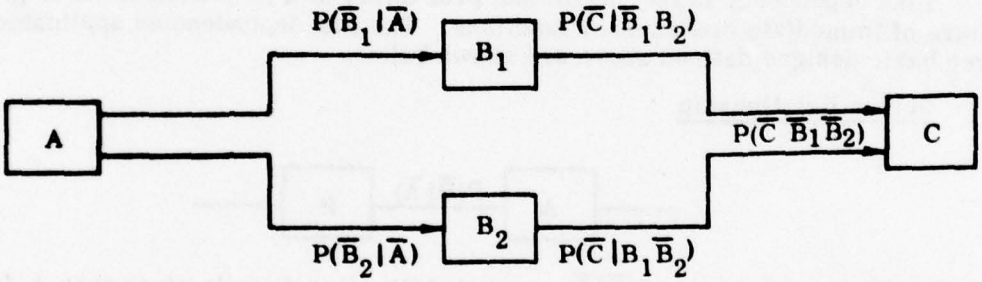


equivalent to



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

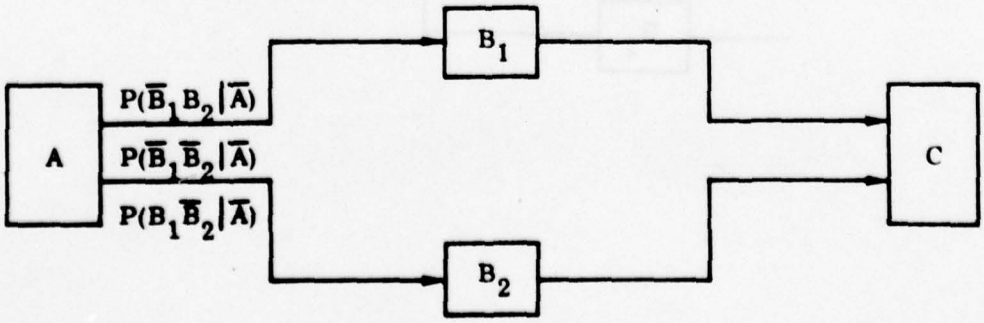
Parallel Functions



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

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

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 i^{th} 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

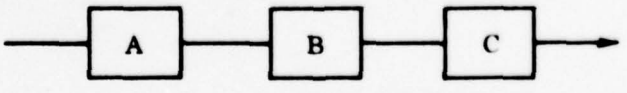
we assume

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

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

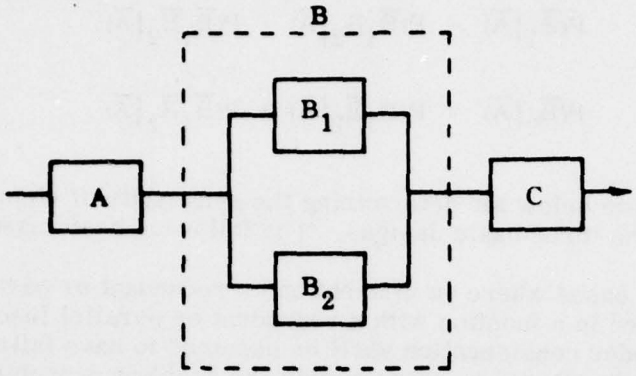
The element sensitivity models are:

<u>Series Relationship</u>



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

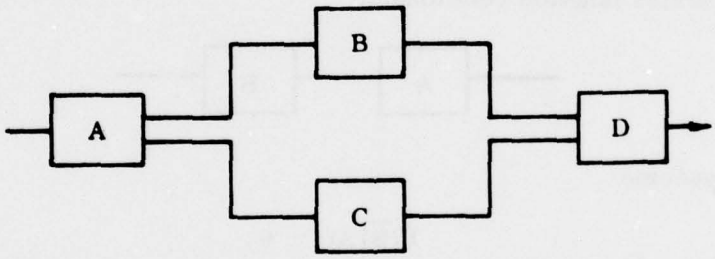
Functional Redundancy



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

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

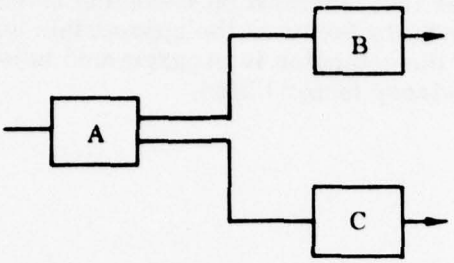
Parallel Functions



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

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

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 j^{th} 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.

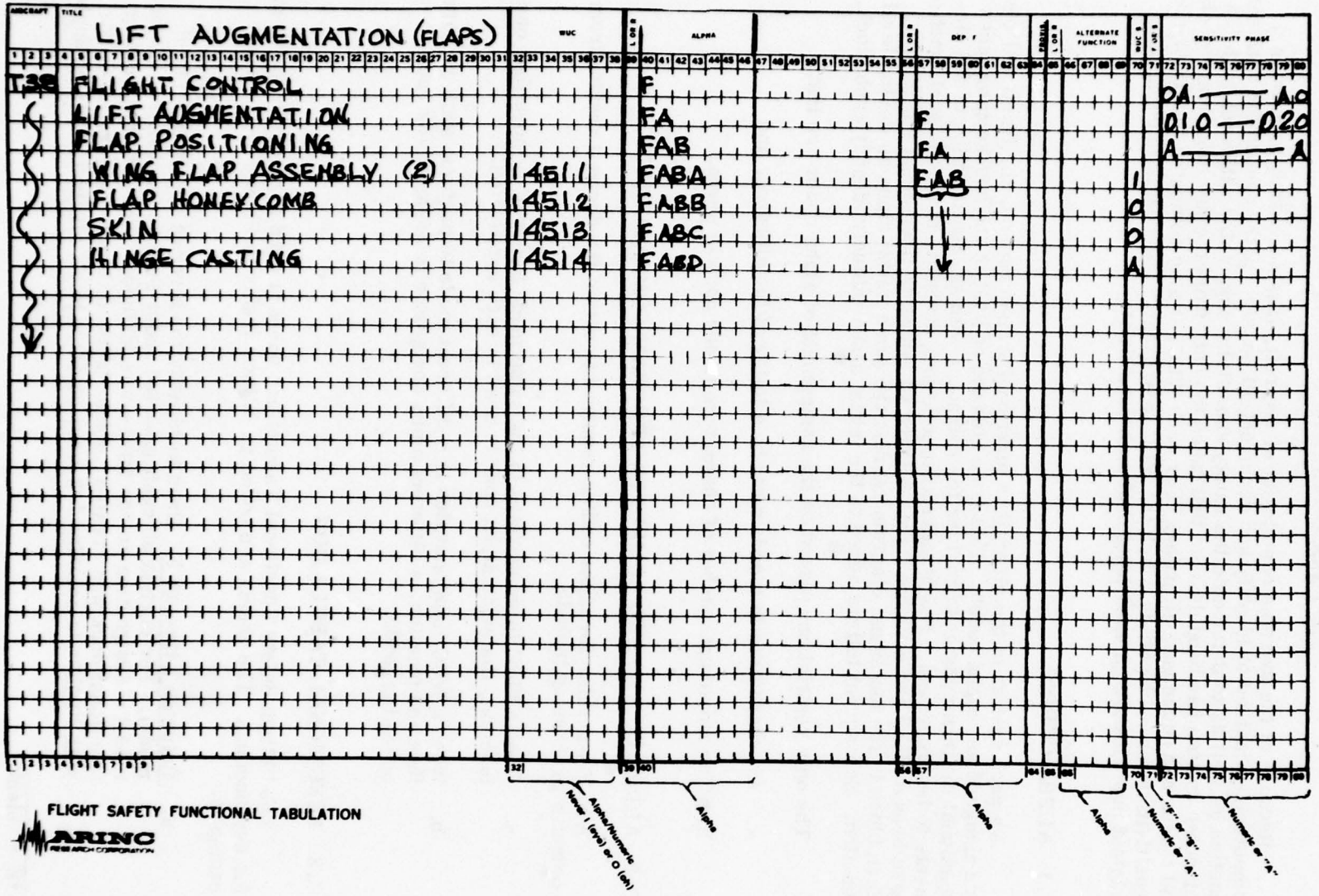
b. When a WUC item operates in a different mode to perform each of more than one function, a different alpha designator is assigned for each operating mode.

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 "F4b"* in columns 1-3 were common to all aircraft. For example,

*b = blank



FLIGHT SAFETY FUNCTIONAL TABULATION

ARINC RESEARCH CORPORATION

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 B-52G AND B-52H AIRCRAFT

FSPT DOCUMENTATION OF B-52G AND B-52H AIRCRAFT

This appendix contains the functional relationship diagrams and a listing of the keypunch cards that comprise the FSPT safety model documentation for the B-52G and B-52H aircraft.

D.1 DIAGRAMS

Title	Page
Propulsion, Diagram B-1	D-5
Propulsion, Diagram B-2	D-6
Propulsion, Diagram B-3	D-7
Propulsion Fuel, Diagram B-4	D-8
Propulsion Fuel, Diagram B-5	D-9
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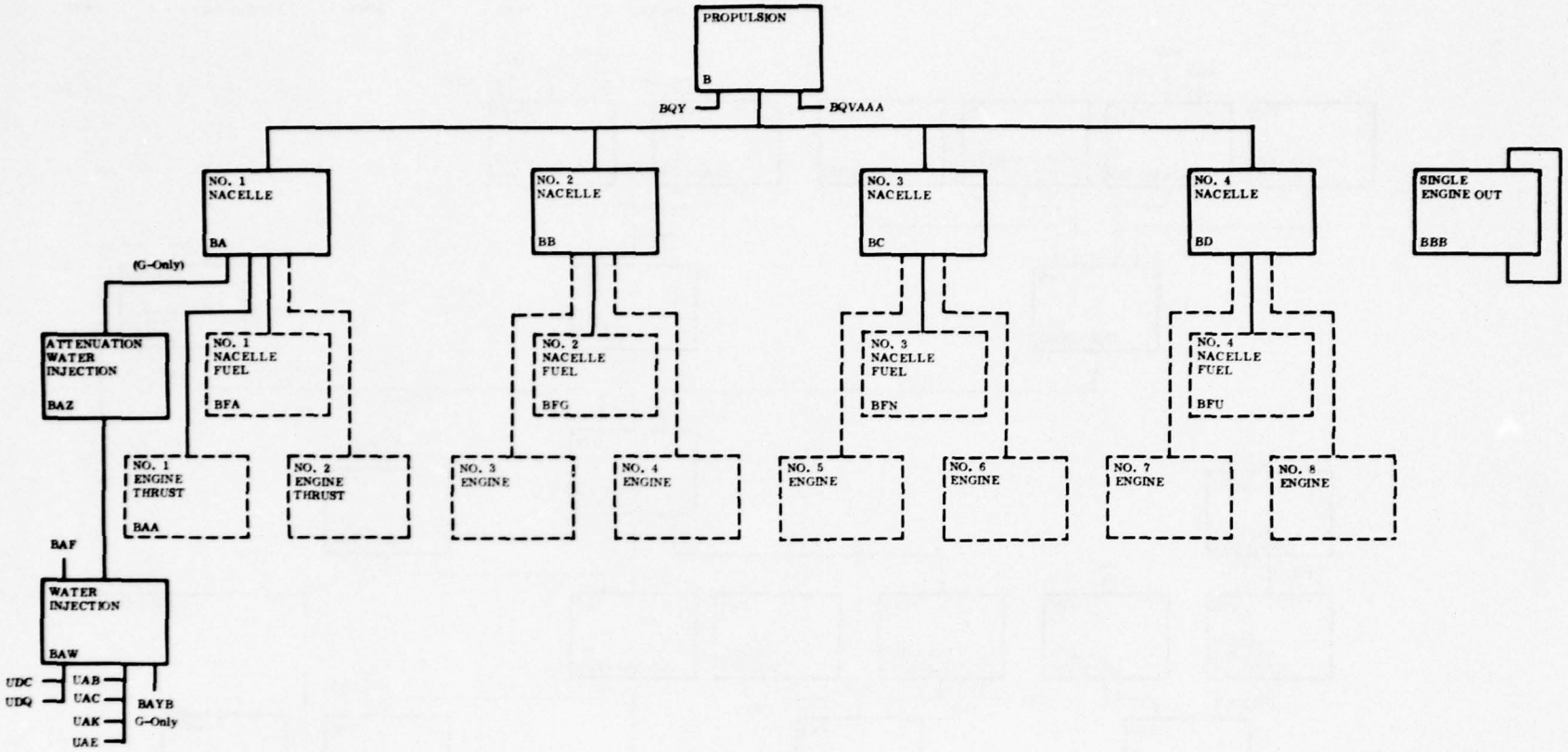
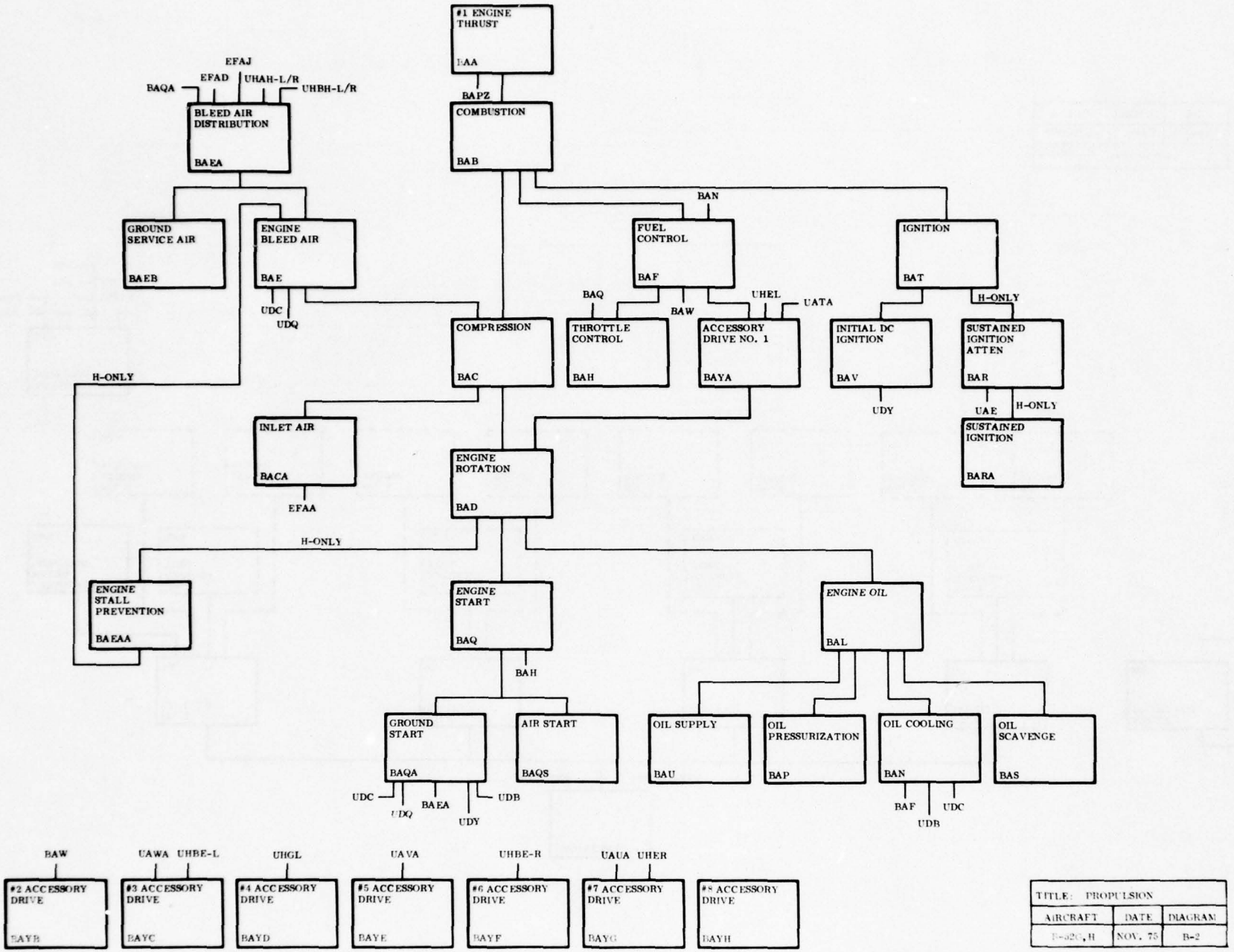
D.2 CARD LISTING

Pages D-31 through D-114 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 "$\frac{3}{4}$".

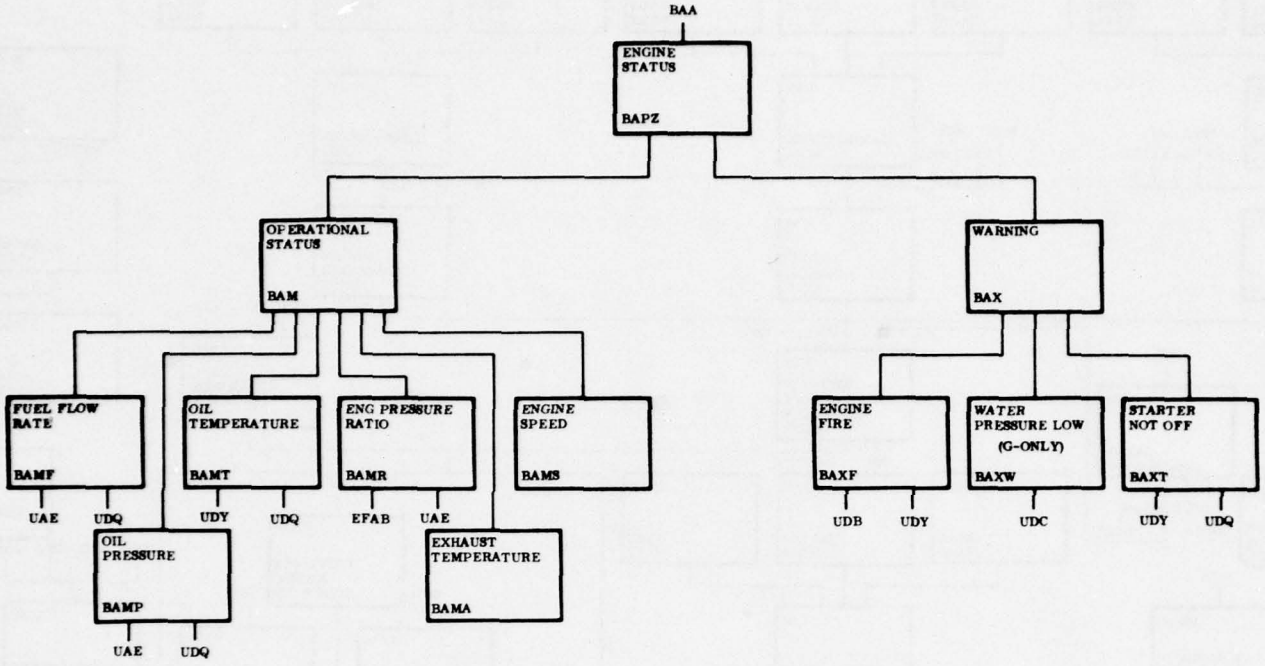
The first two columns of the punchard are coded "52". If the third column is blank, the card is common to both versions of the aircraft. Cards peculiar to one version of the aircraft carry a designator in column 3 for the aircraft – "G" for the B-52G and "H" for the B-52H.



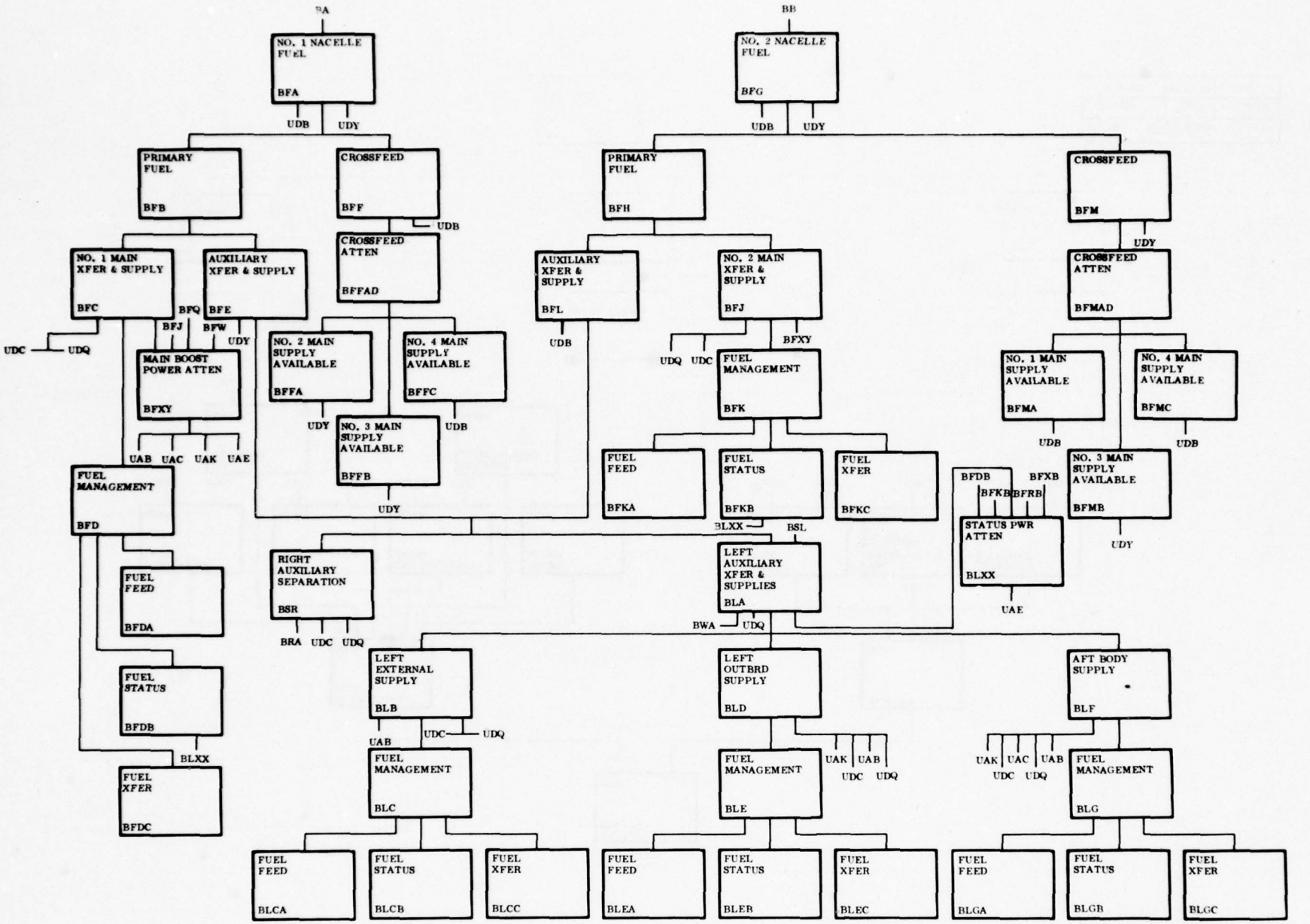
TITLE: PROPULSION		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	B-1



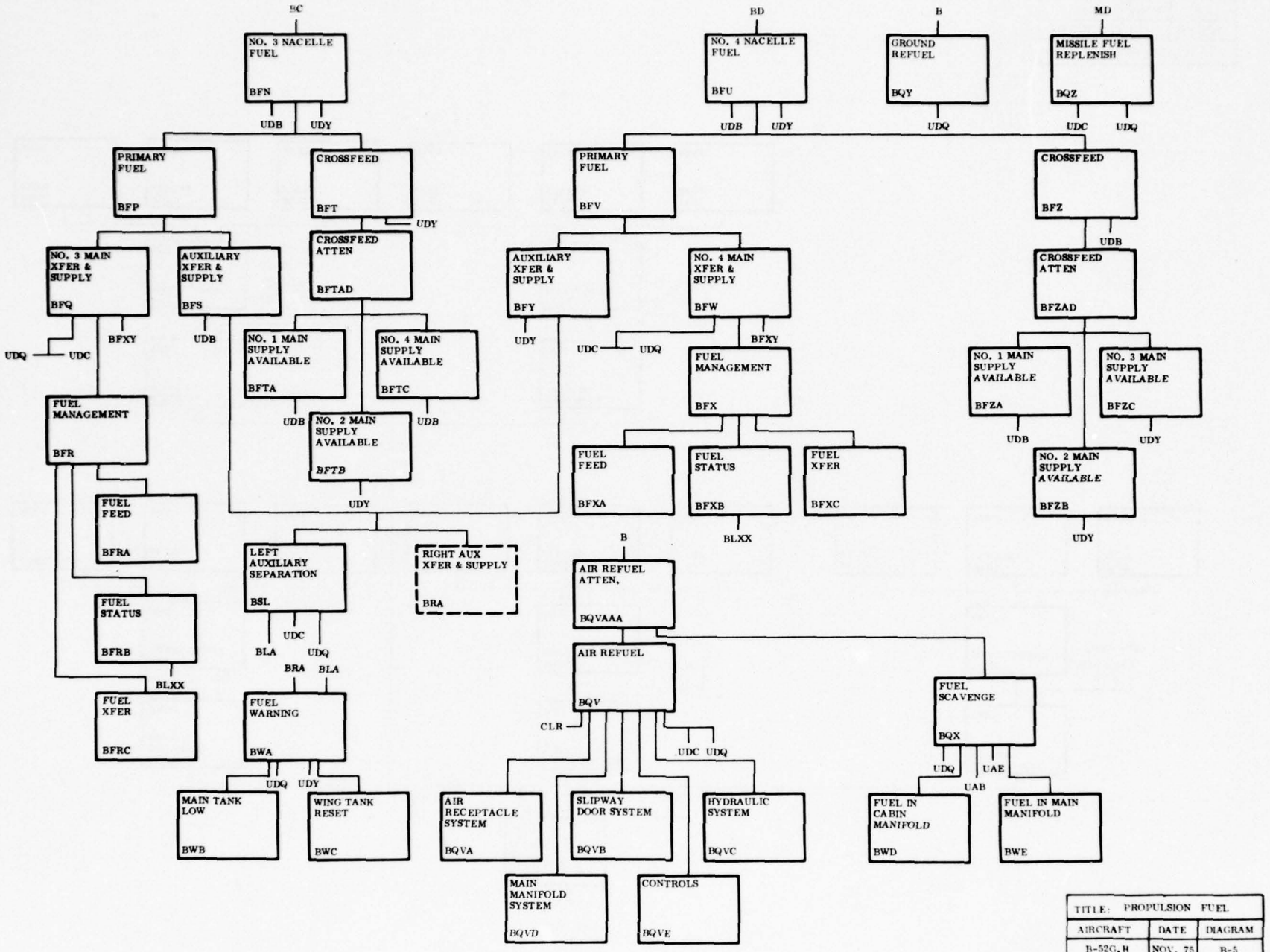
TITLE: PROPULSION		
AIRCRAFT	DATE	DIAGRAM
B-52G,H	NOV. 75	B-2



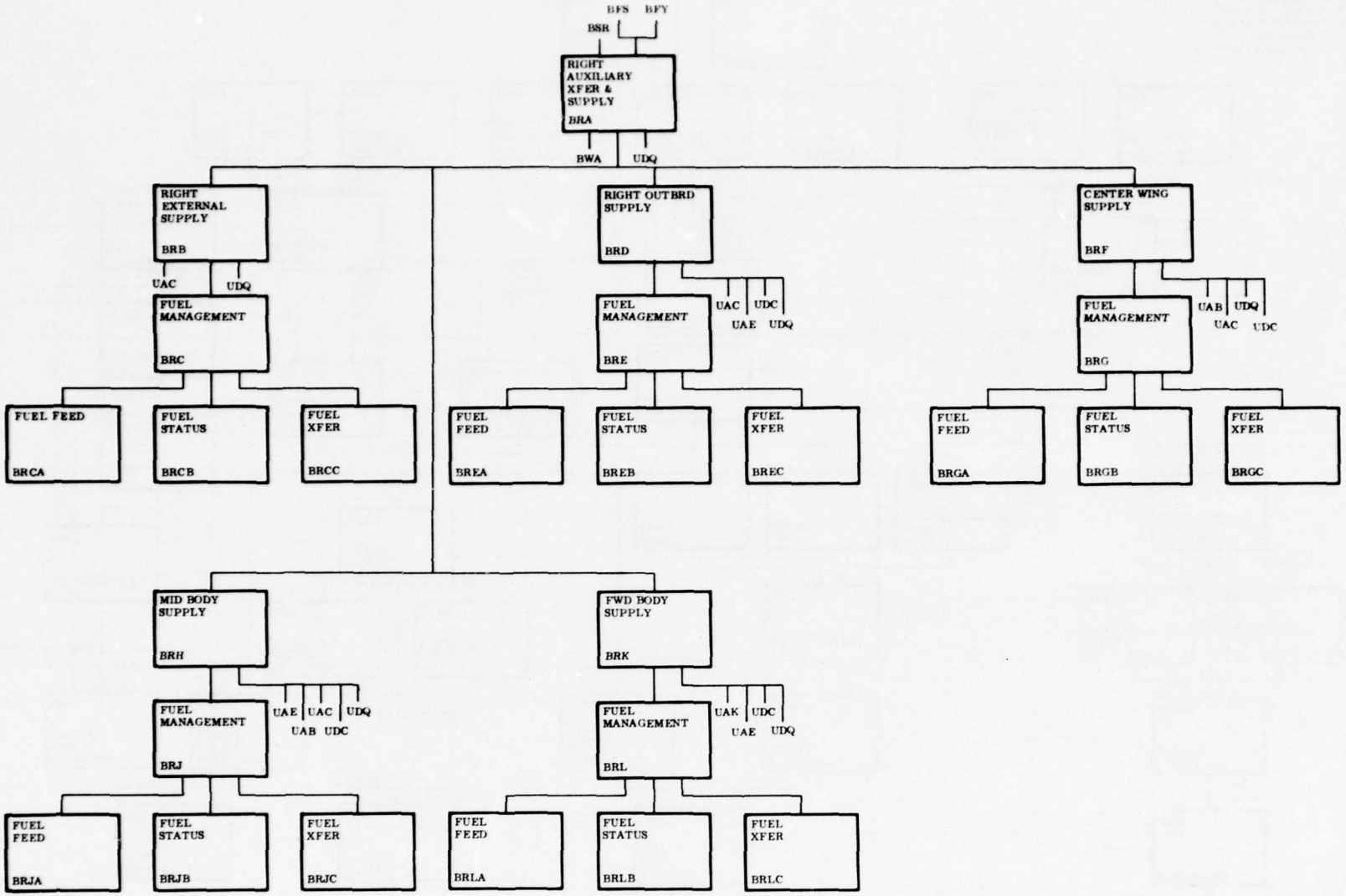
TITLE: PROPULSION		
AIRCRAFT	DATE	DIAGRAM
B-52G,H	NOV. 75	B-3



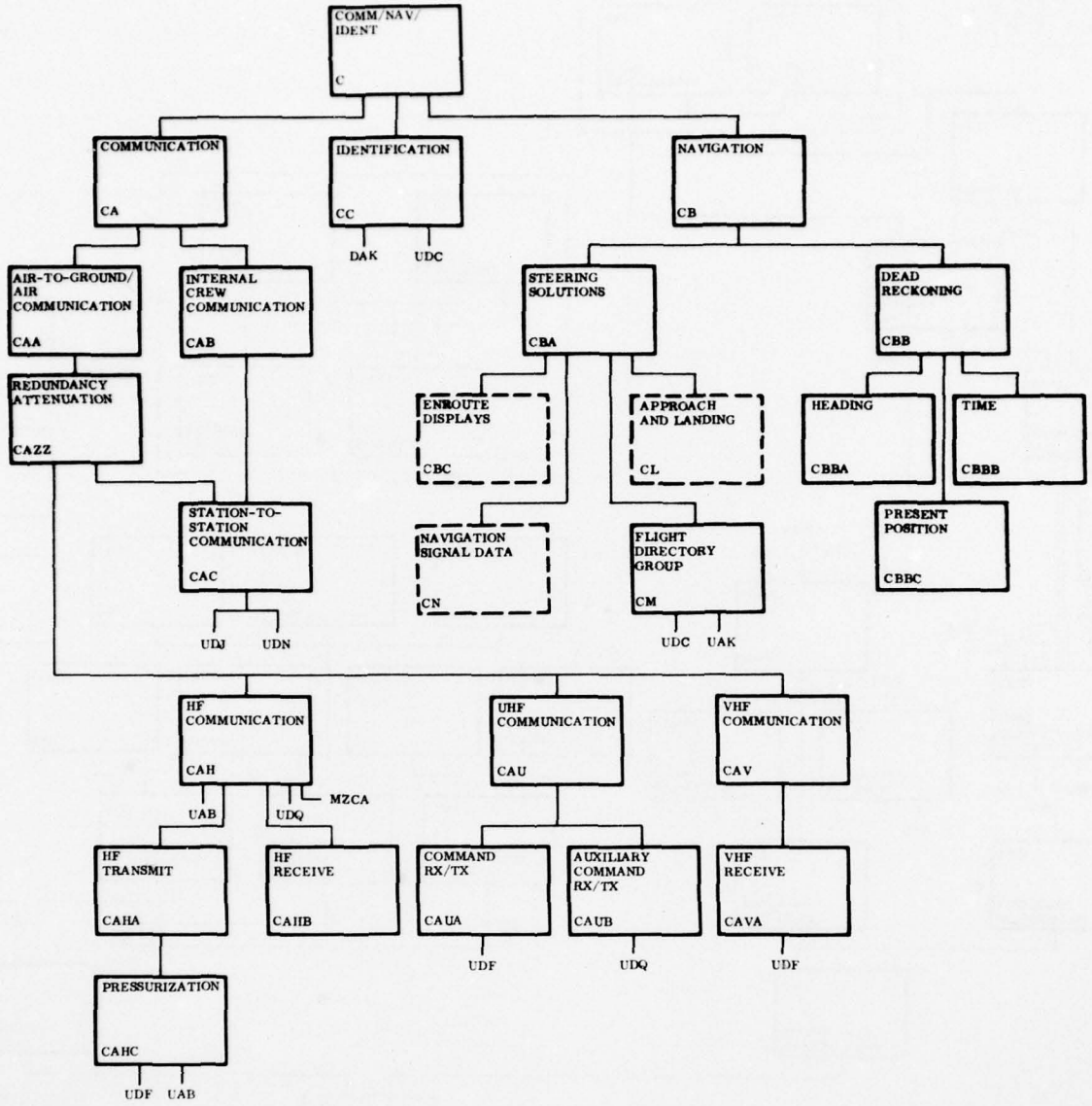
TITLE: PROPULSION FUEL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	B-4



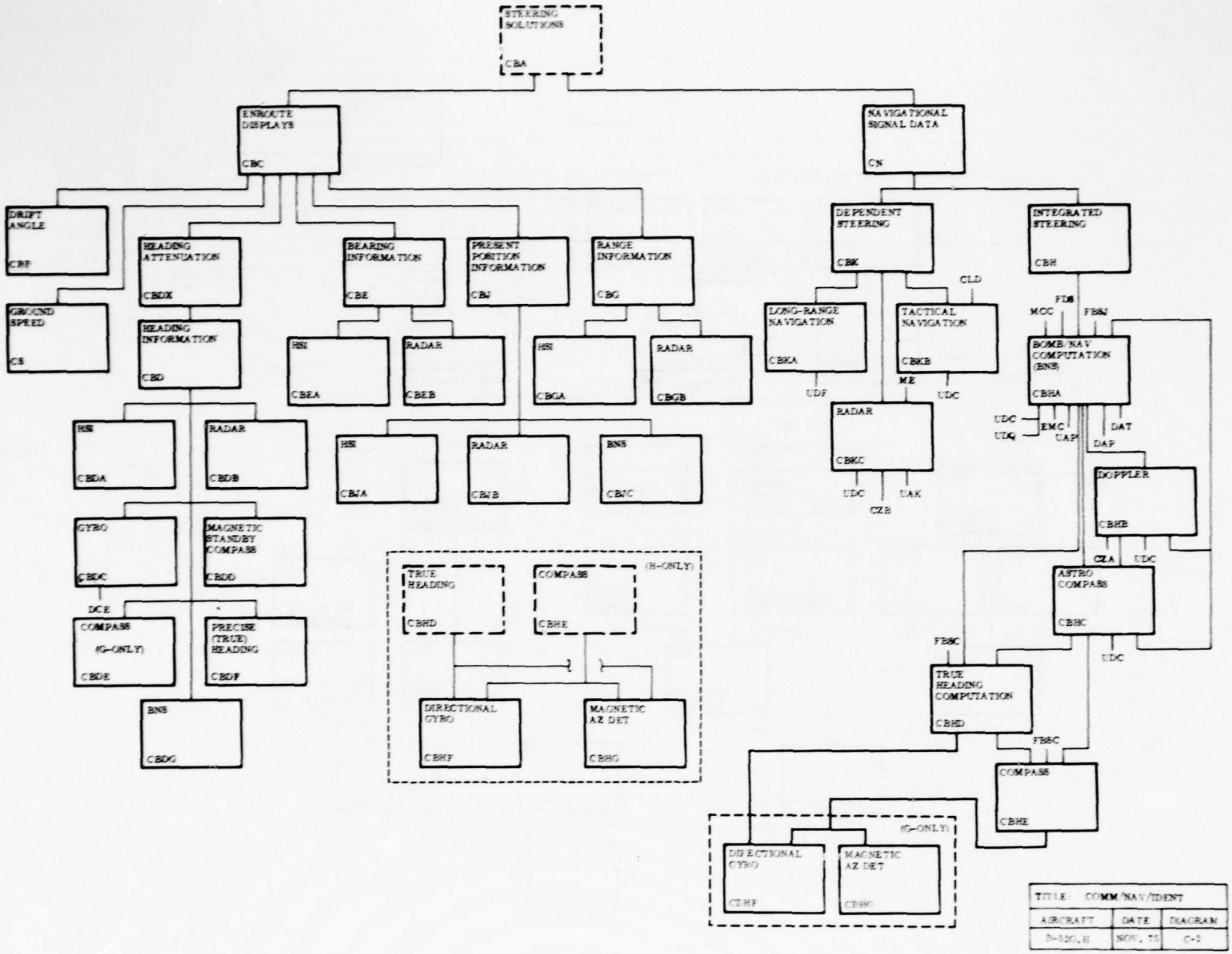
TITLE: PROPULSION FUEL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	B-5



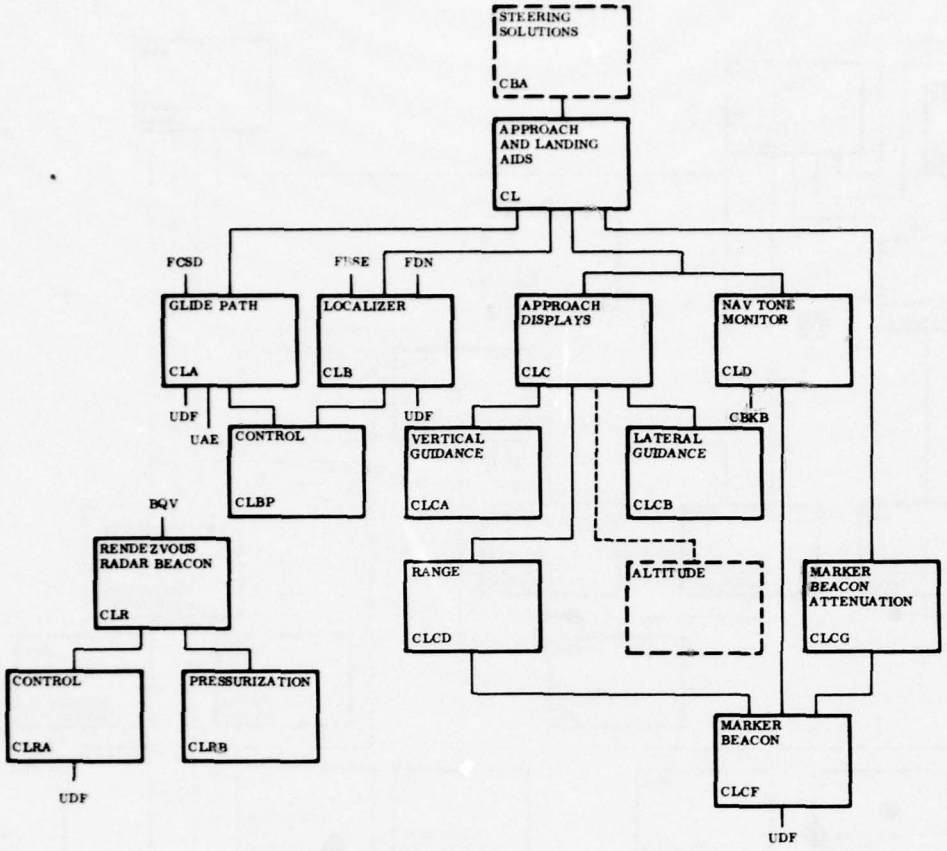
TITLE: PROPULSION FUEL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	B-6



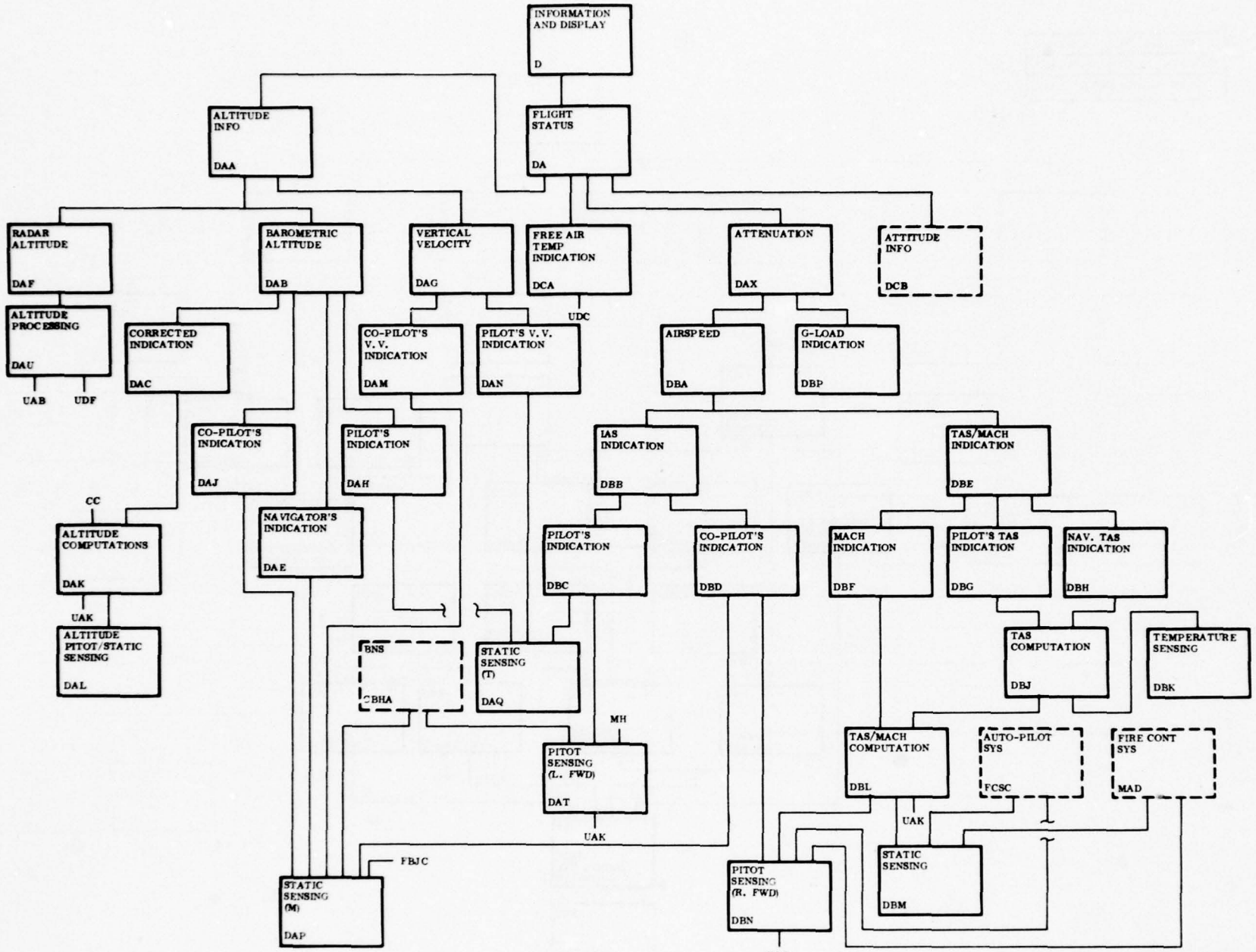
TITLE: COMM/NAV/IDENT		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	C-1



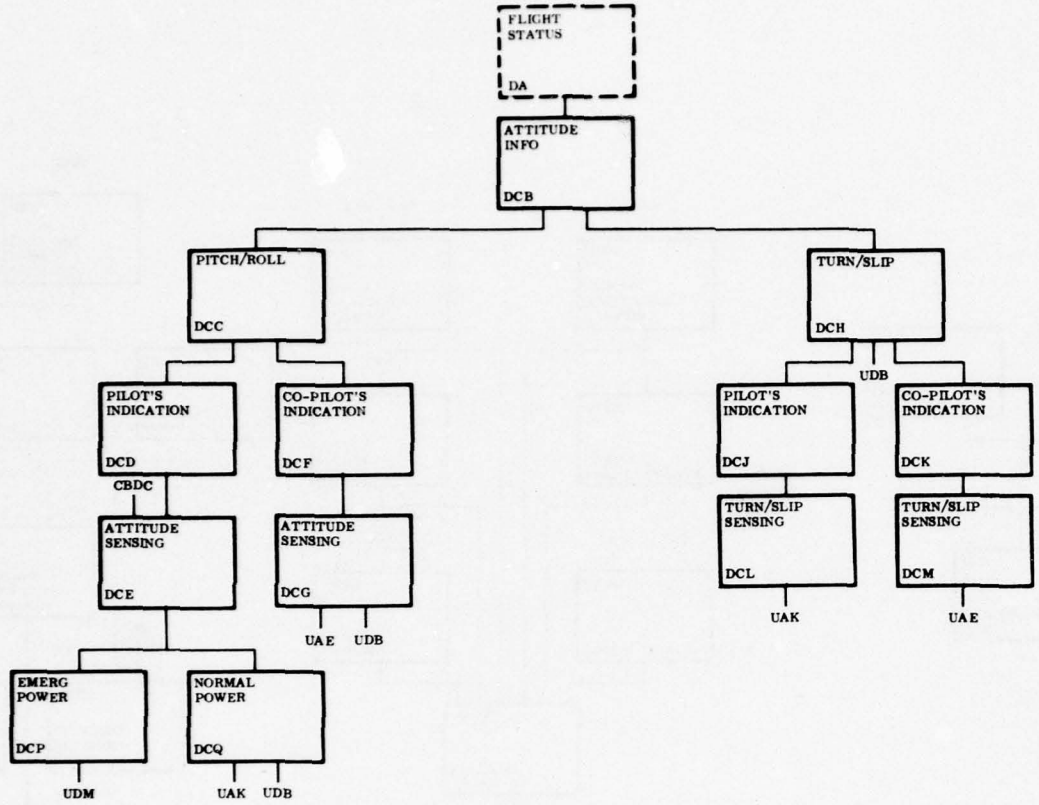
TITLE: COMM/NAV/IDENT		
AIRCRAFT	DATE	DIAGRAM
B-52G,H	NOV. 75	C-2



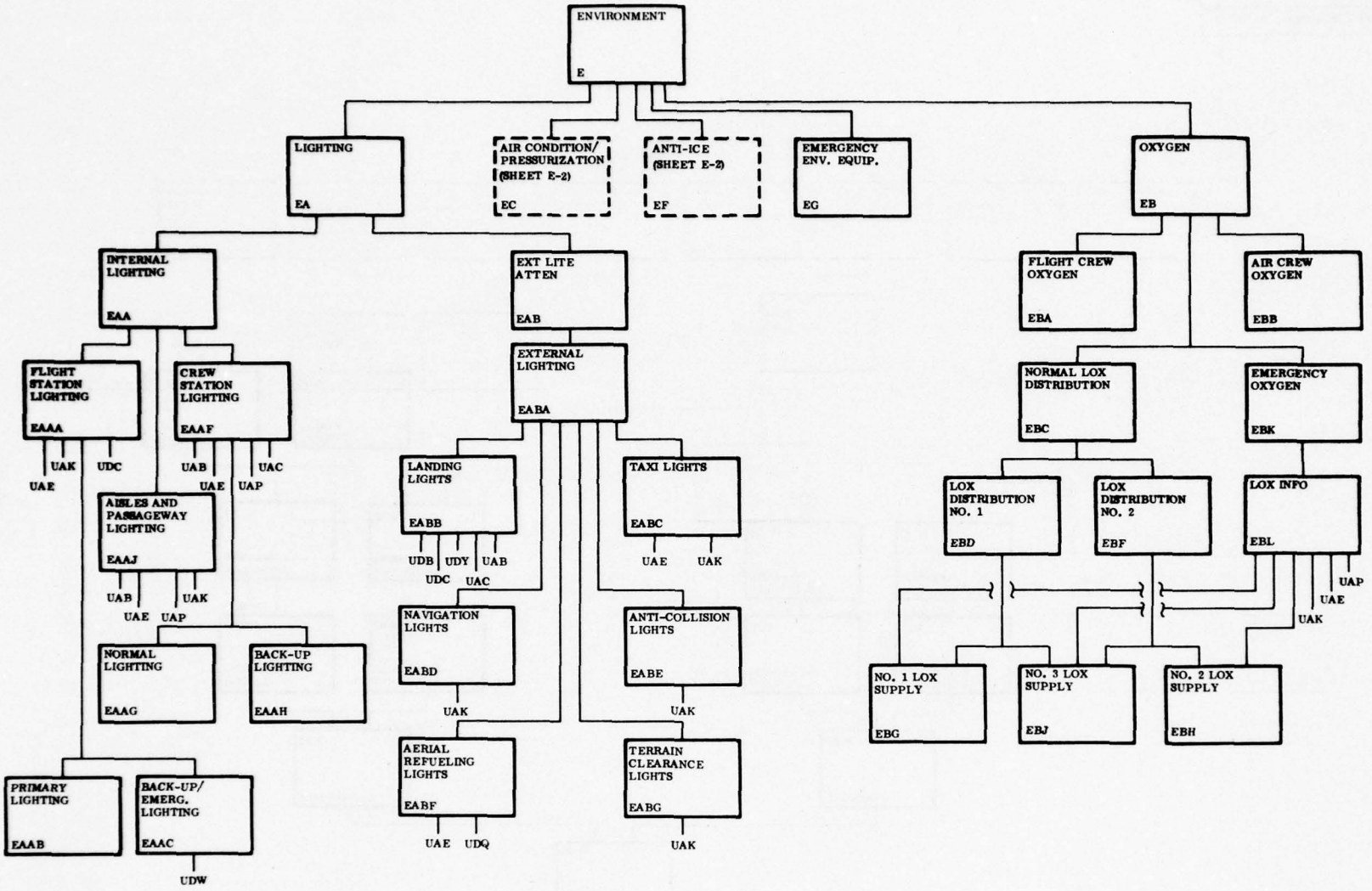
TITLE: COMM/NAV/IDENT		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	C-3



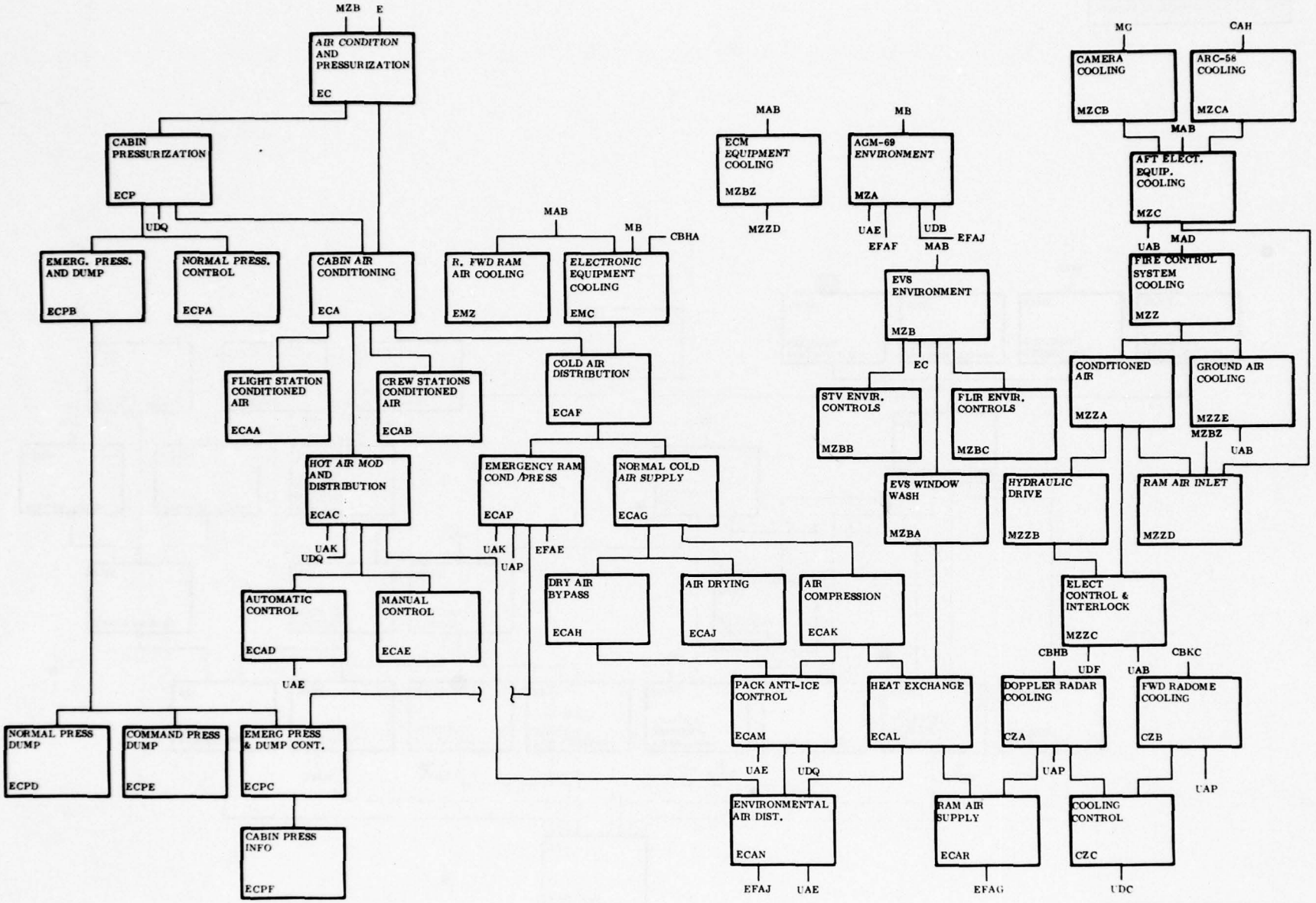
TITLE: INFORMATION & DISPLAY		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	D-1



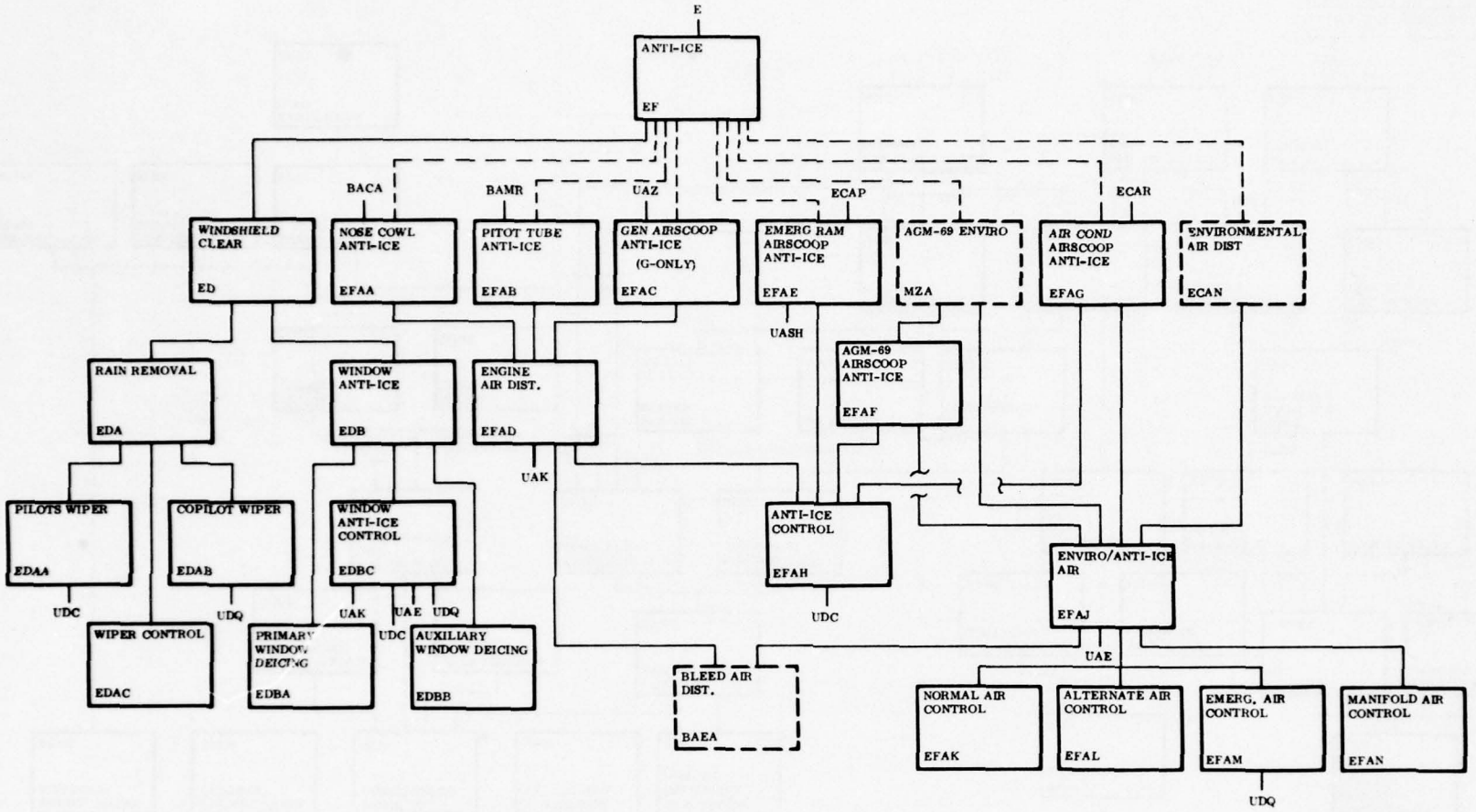
TITLE: INFORMATION & DISPLAY		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	D-2



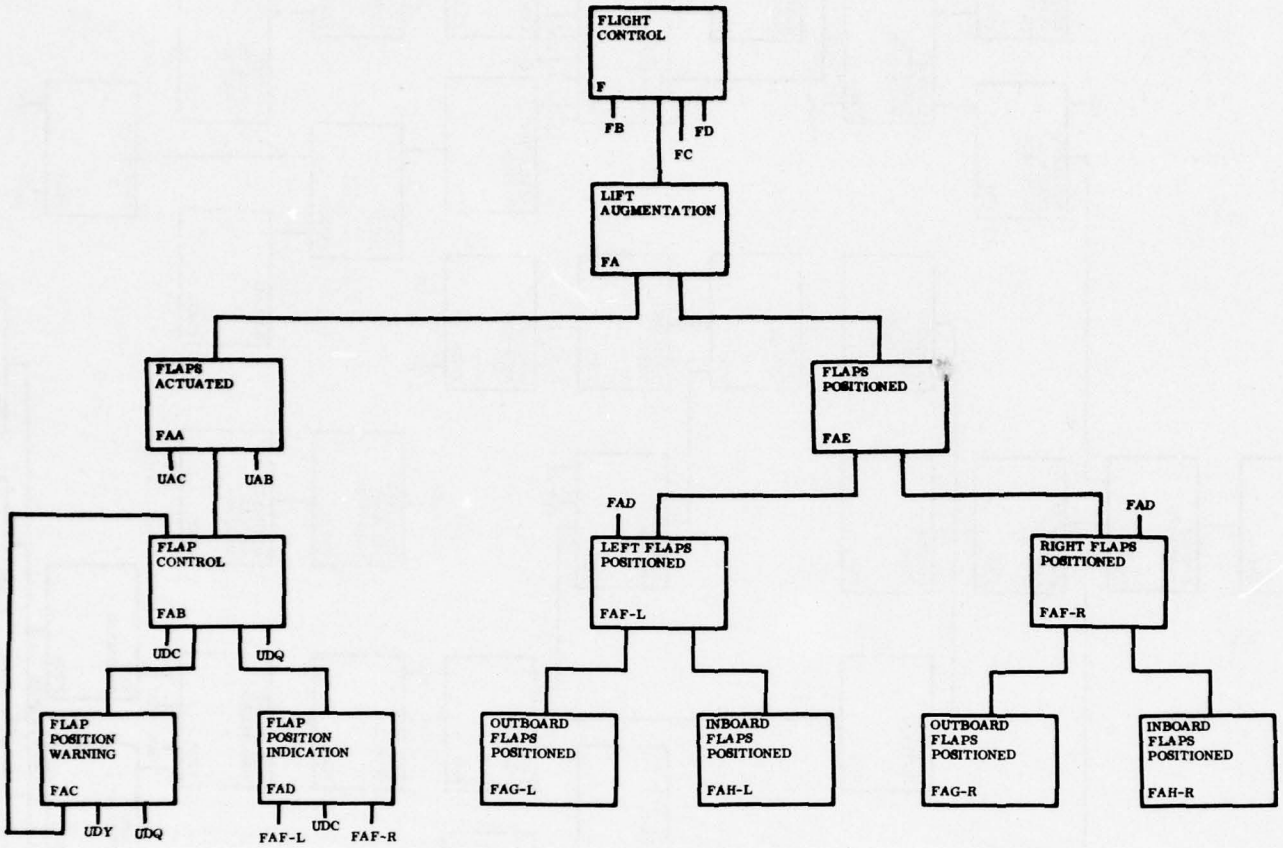
TITLE: ENVIRONMENTAL CONTROL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	E-1



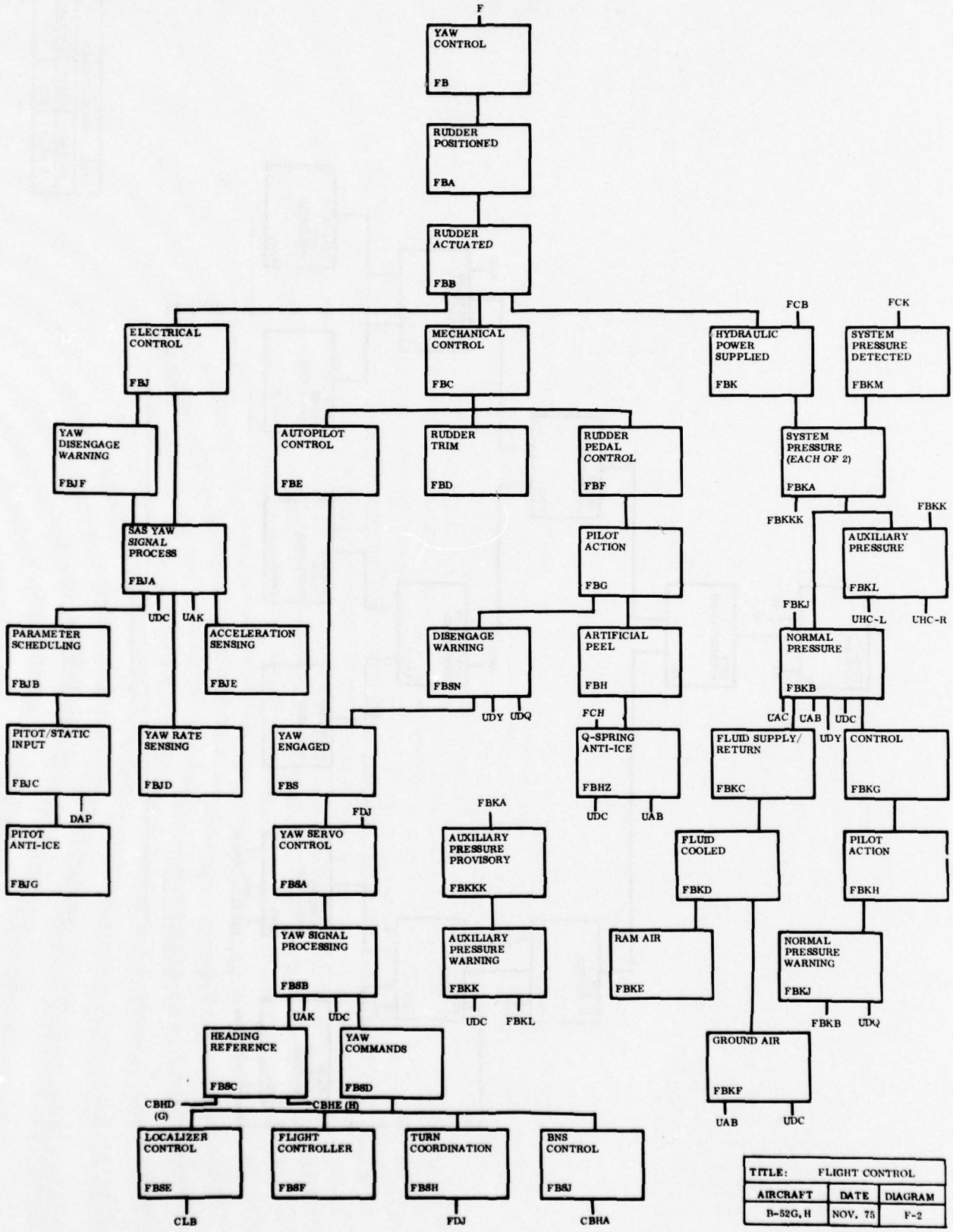
TITLE: ENVIRONMENTAL CONTROL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	E-2



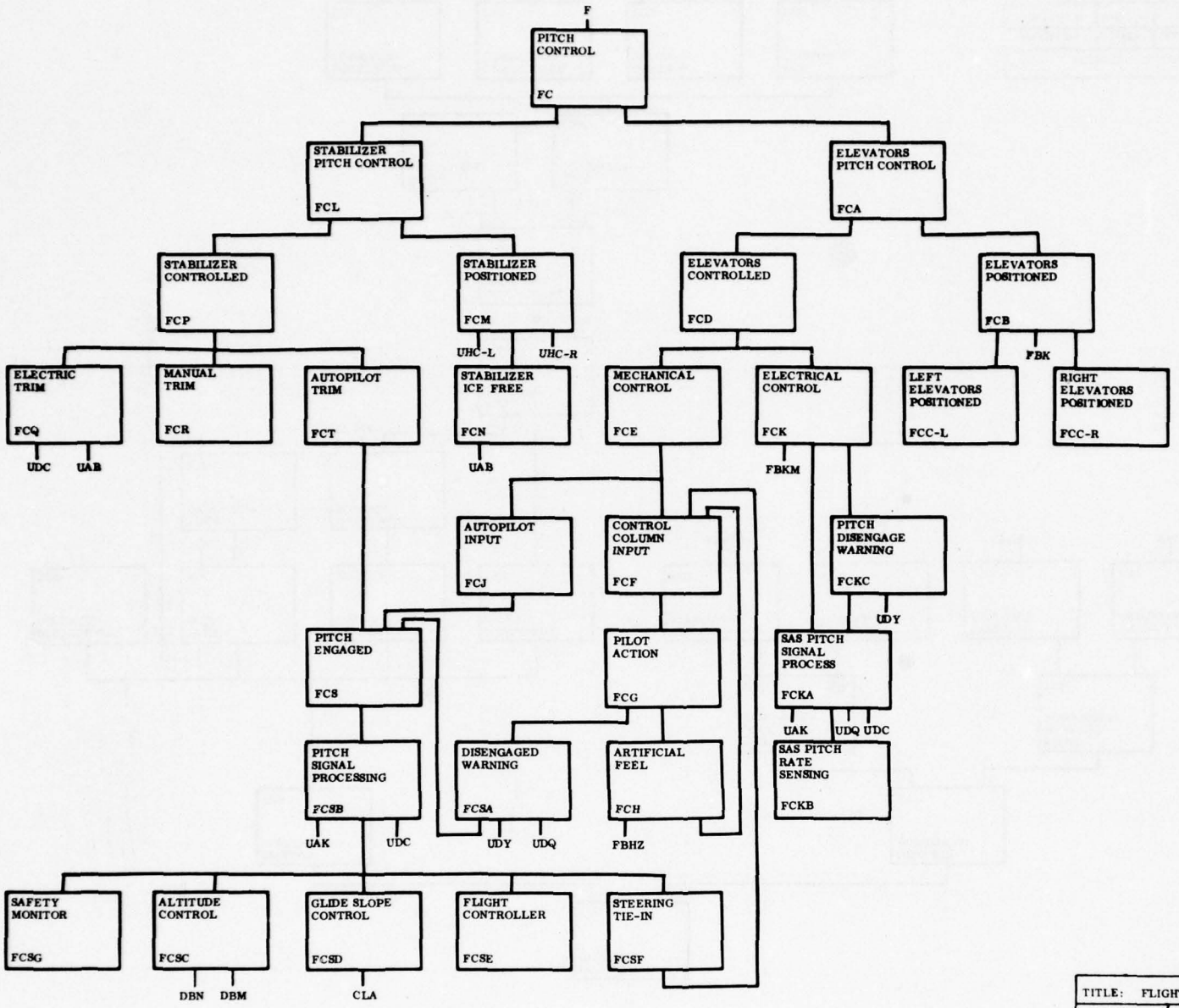
TITLE: ENVIRONMENTAL CONTROL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	E-3



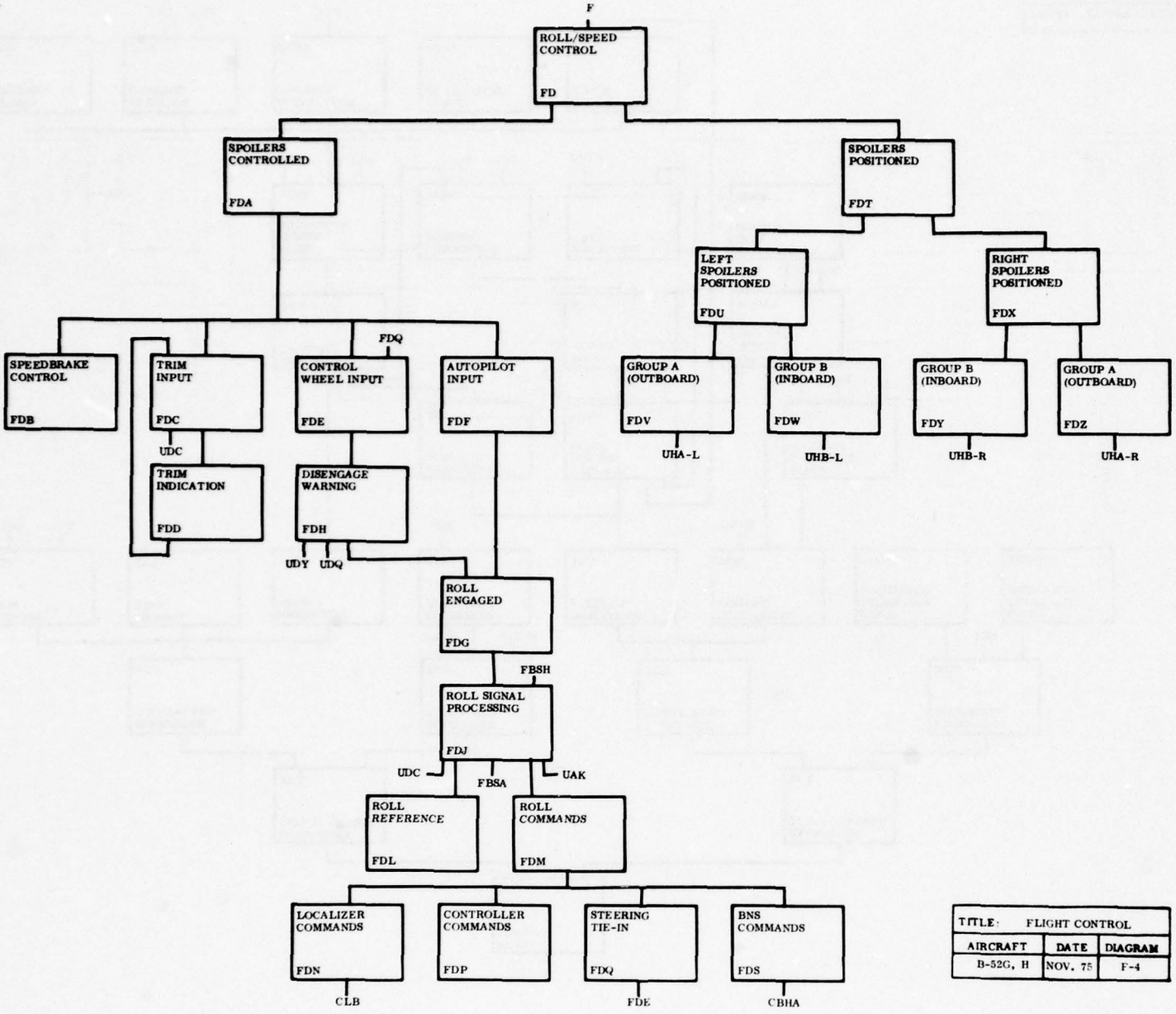
TITLE: FLIGHT CONTROL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	F-1



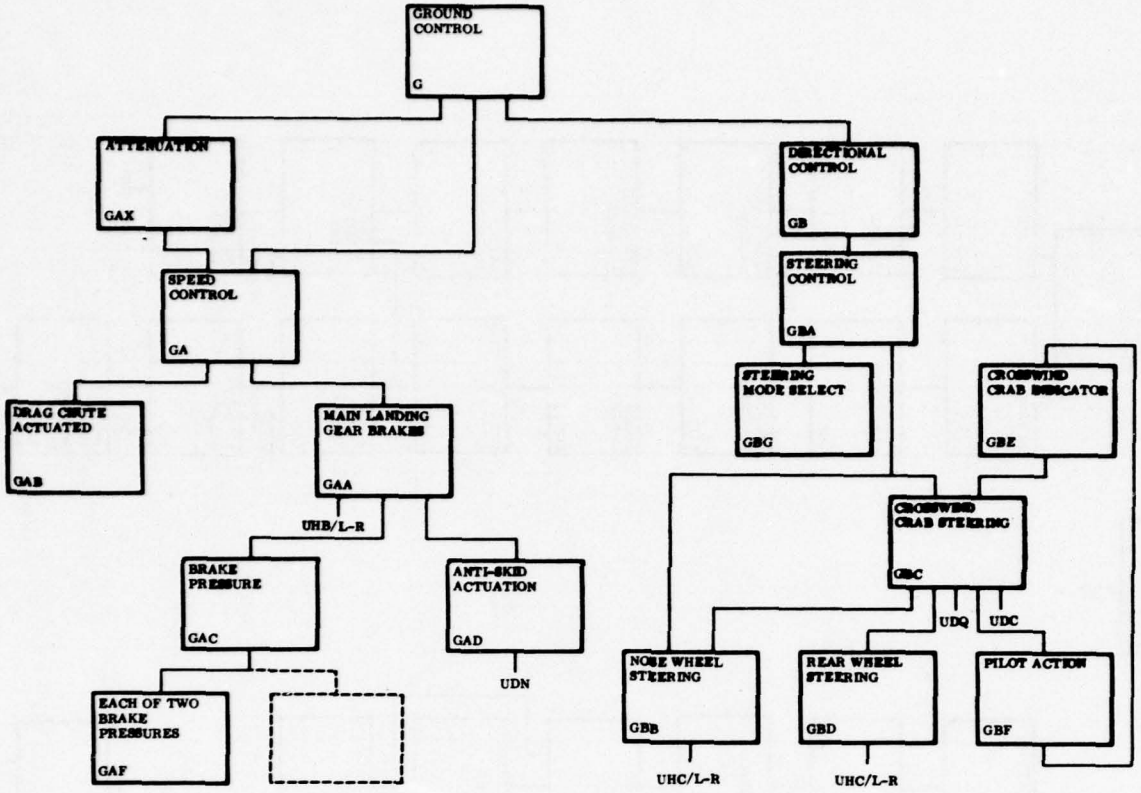
TITLE: FLIGHT CONTROL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	F-2



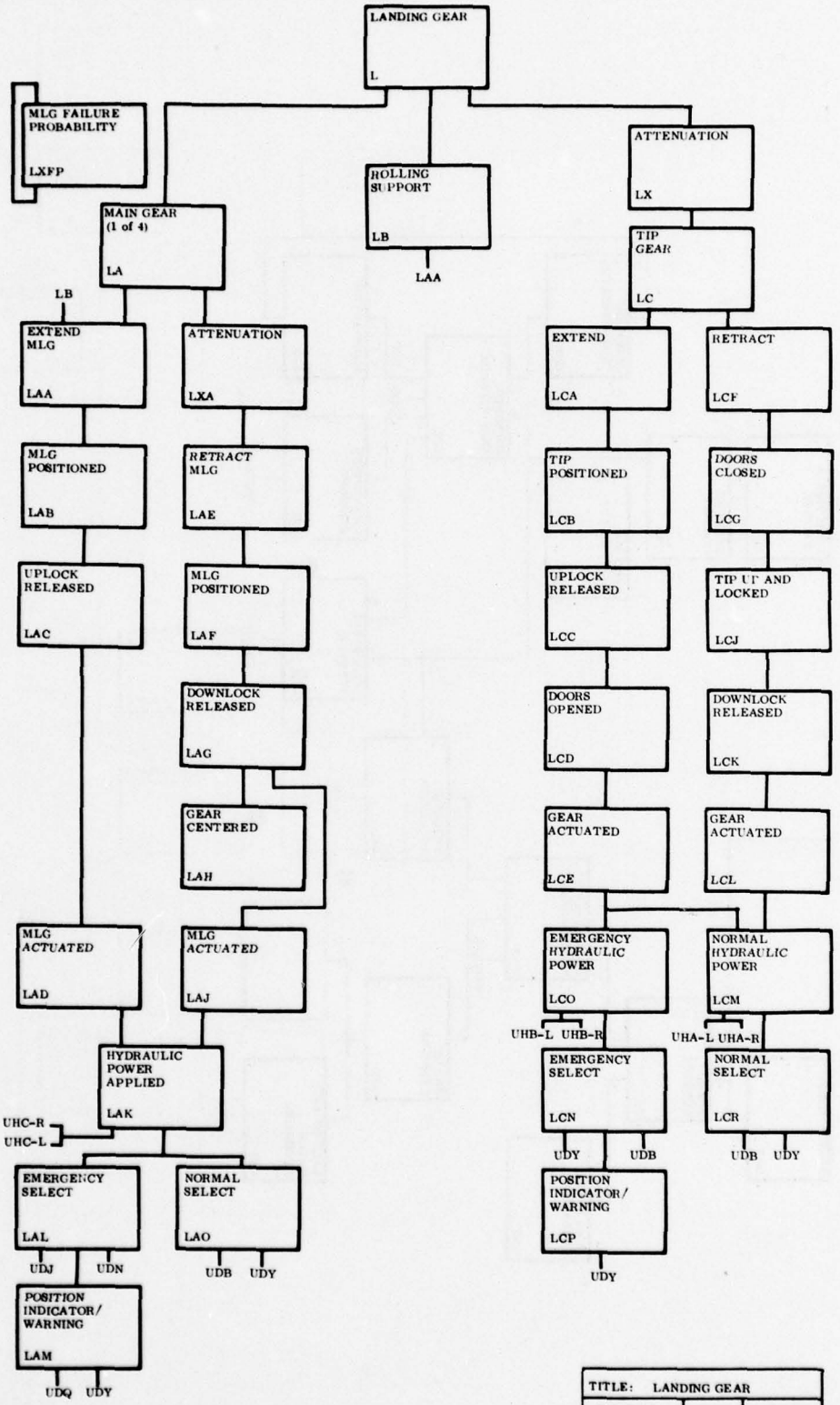
TITLE: FLIGHT CONTROL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	F-3



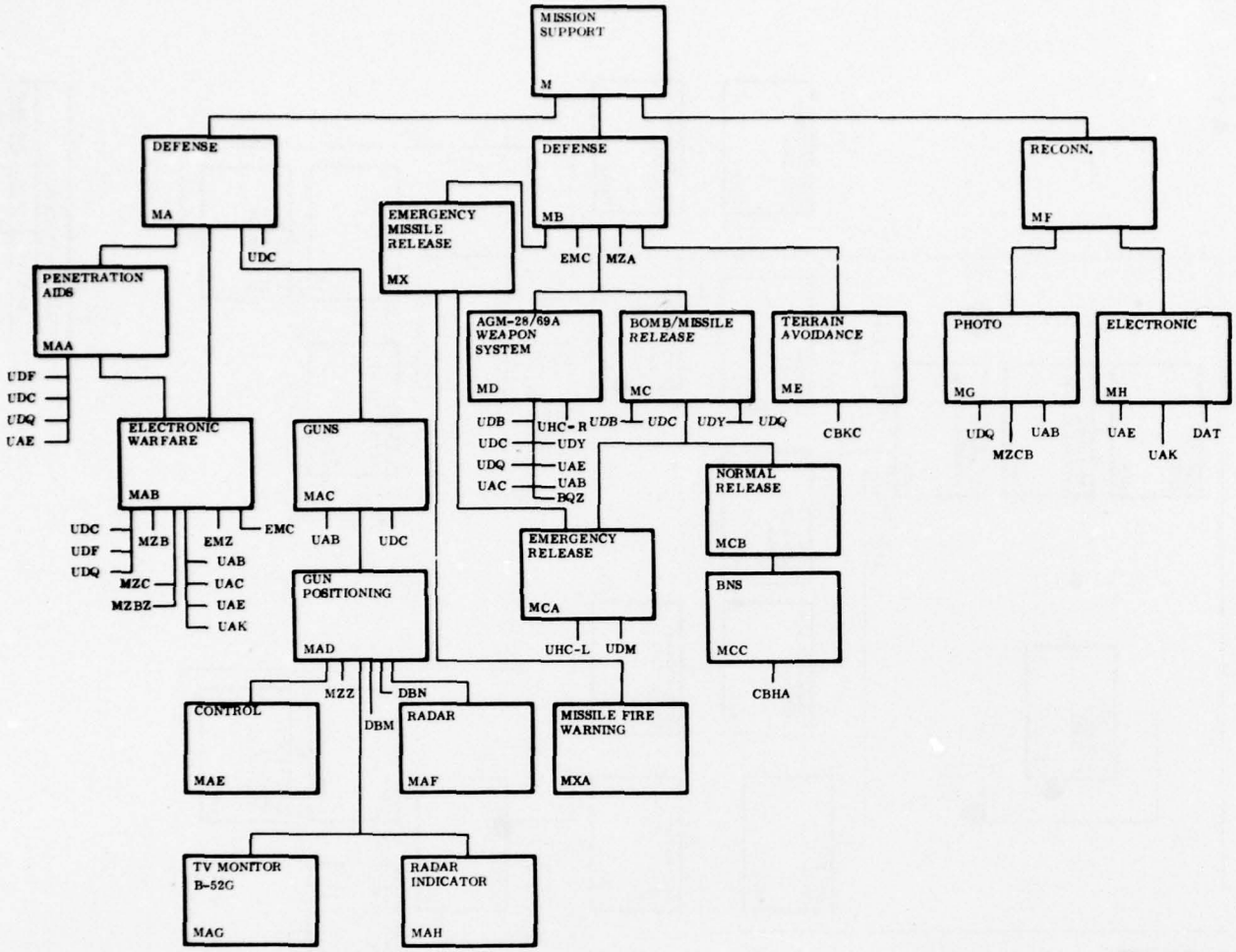
TITLE: FLIGHT CONTROL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	F-4



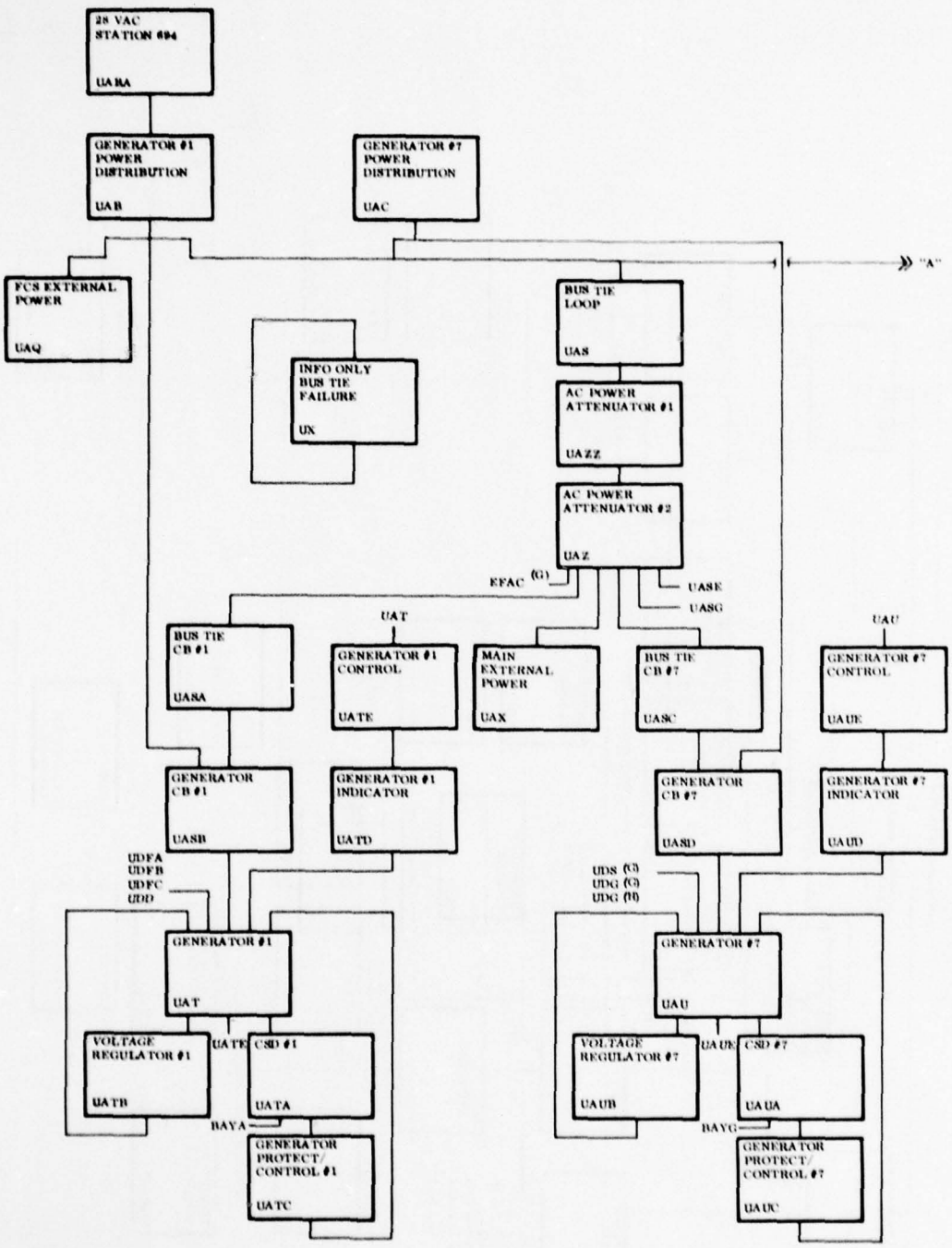
TITLE: GROUND CONTROL		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	G-1



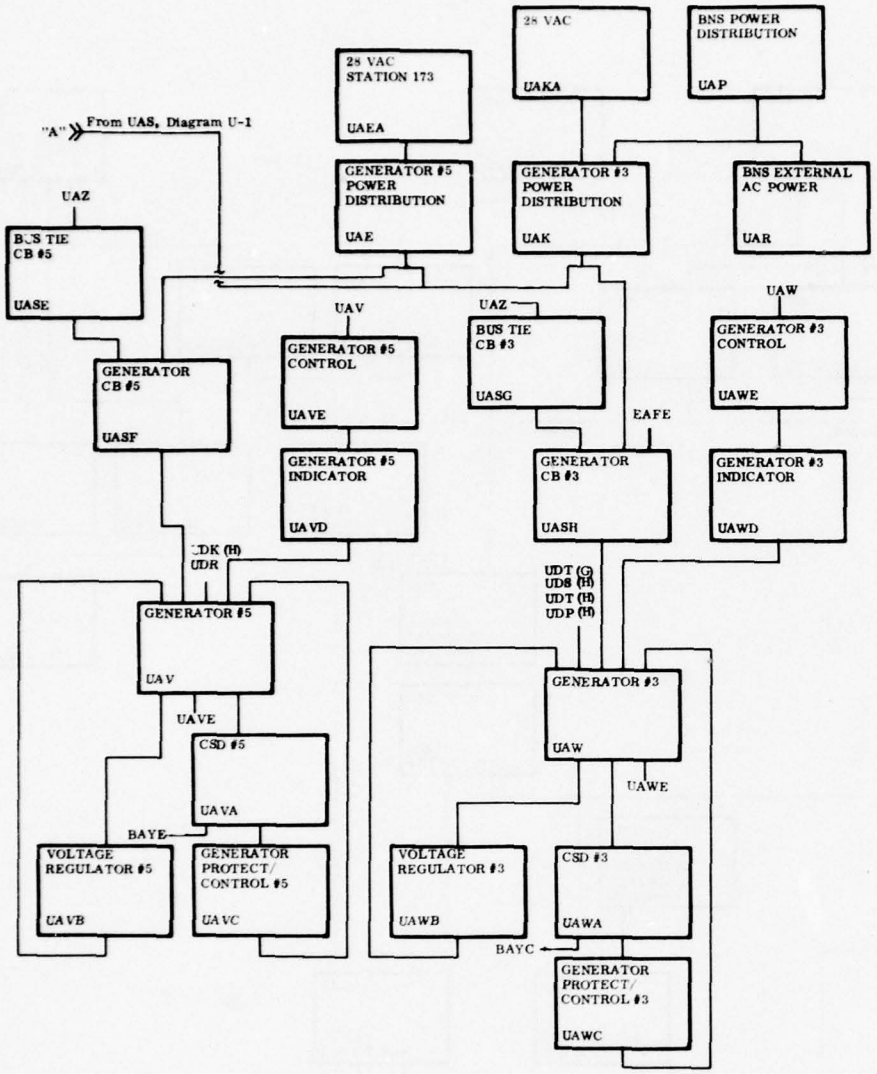
TITLE: LANDING GEAR		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	L-1



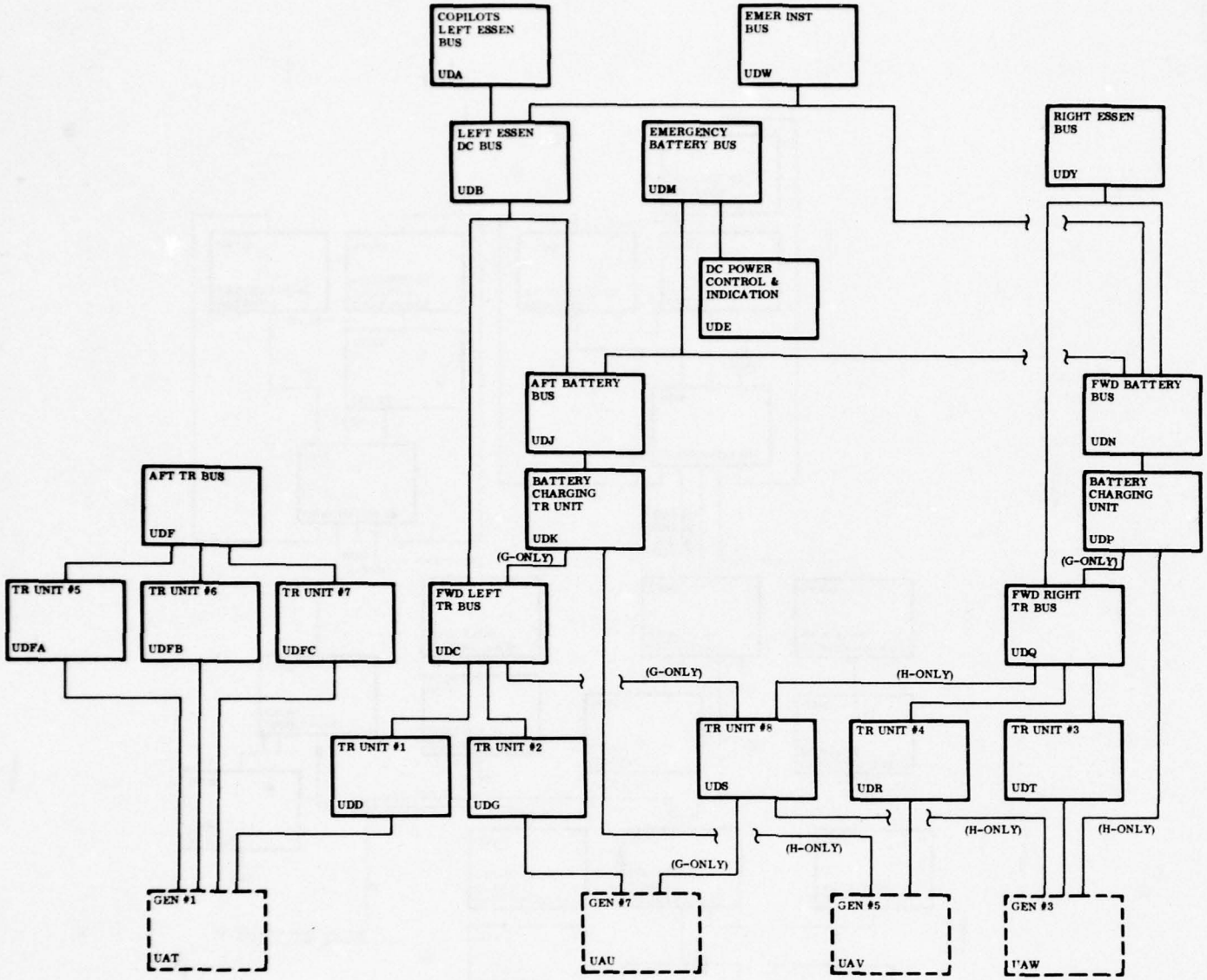
TITLE: MISSION SUPPORT		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	M-1



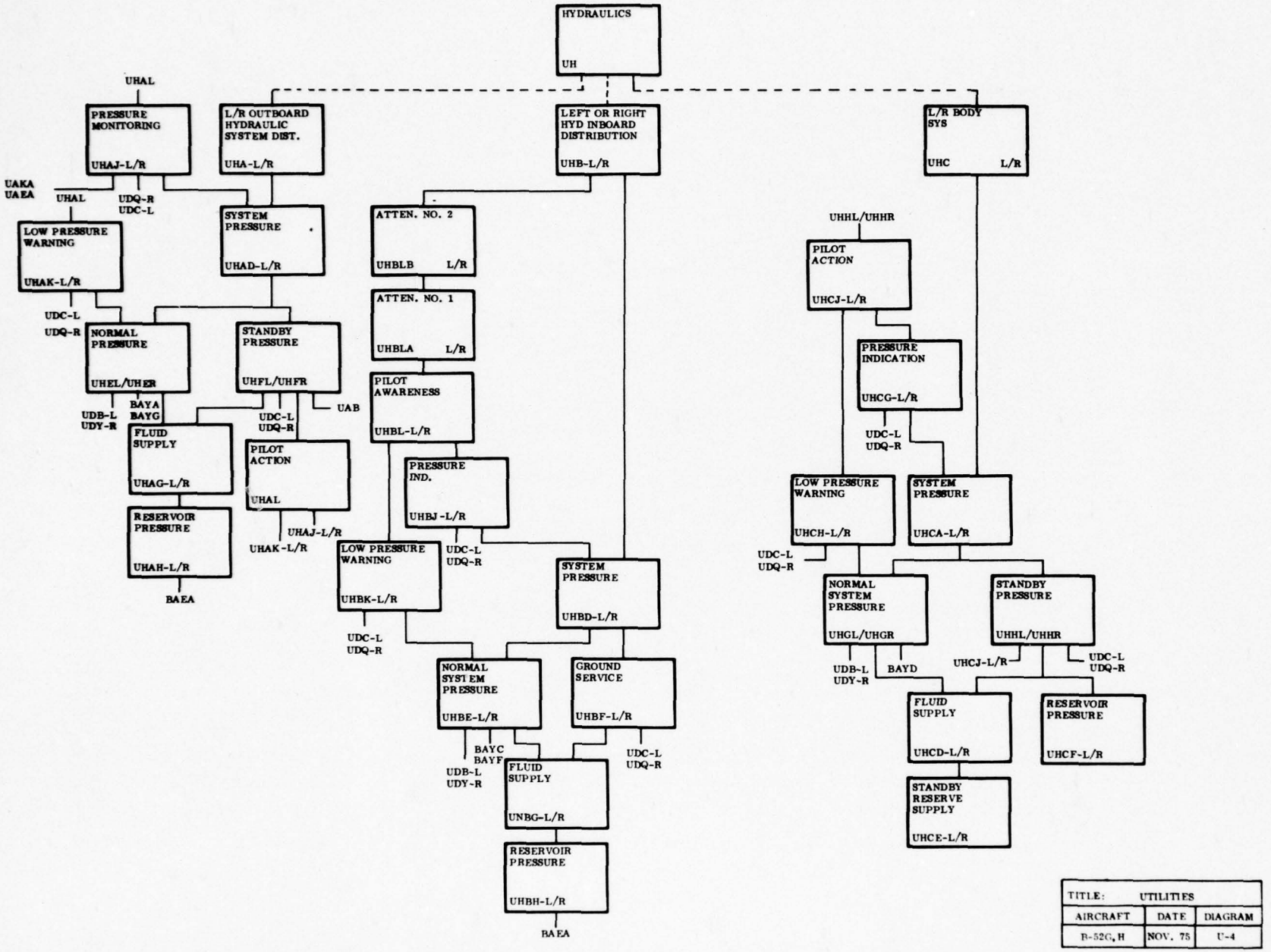
TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	U-1



TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
B-52G,H	NOV. 75	U-2



TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	U-3



TITLE: UTILITIES		
AIRCRAFT	DATE	DIAGRAM
B-52G, H	NOV. 75	U-4

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
PGG095.JICC 3-526     52 526                                  526526
52 PROPULSION                                 B                                   AAAAAAAAA
52  NO 1 NACELLE                              BA                  A        9 BBB  09AAAAA90
52   NO 1 NACELLE                             BA                  B               010000000
52  NO 1 ENGINE THRUST                        BAA                 B        8 BBB  SAAAAAAAA
52  NO 1 ENGINE THRUST                        BAA                 BA              FAAAAAAAA
52  NO 1 ENGINE THRUST                        BAA                 BBB             SAAAAAAAA
52    CASE ASSY TURBINE EXHAUST 23ECA         BAAA                BAA          A
52    DUCT WLDMT REAR BEARING   23ECB         BAAB                BAA          2
52    HOUSING WLDMT REAR BEARING23ECC         BAAC                BAA          A
52    SEAL ASSY REAR SHAFT GAS  23ECD         BAAD                BAA          7
52    HEATSHIELD BAFFLE ASSY    23ECG         BAAF                BAA          1
52    DUCT TURBINE EXHAUST      23ECH         BAAG                BAA          A
52    STRUT WLDMT TURB EXHAUST  23ECJ         BAAH                BAA          1
52    CONE WLDMT TURB EXHAUST   23ECK         BAAJ                BAA          1
52    SUPPORT ROD REAR BEARING  23ECL         BAAK                BAA          1
52    NOZZLE ASSY ENG EXHAUST   23EQA         BAAL                BAA          A
52H   TAIL CONE ASSY            23EGB         BAAM                BAA          1
52    BALL REAR MOUNT           23RFA         BAAN                BAA          3
52    CONE HANGER FWD MOUNT     23RRC         BAAP                BAA          8
52    LINK LOW FWD MOUNT UPPER  23RRD         BAAQ                BAA          1
52    LINK LOW FWD MOUNT LOWER  23RRE         BAAR                BAA          1
52    LINK UP FWD MOUNT UPPER   23RRF         BAAS                BAA          1
52    LINK UP FWD MOUNT LOWER   23RRG         BAAT                BAA          1
52    LINK AFT MOUNT RH         23RRH         BAAU                BAA          1
52    LINK AFT MOUNT LH         23RRJ         BAAV                BAA          1
52    BALL FWD MOUNT            23RRK         BAAW                BAA          8
52   COMBUSTION                               BAB                 BAA              AAAAAAAAA
52    CASE ASSY DIFFUSER        23DAA         BABA                BAB          A
52    SHROUD ASSY VANE 16 STAGE 23DAB         BABB                BAB          A
52    SHROUD COMP VANE INNER    23DAD         BABC                BAB          A
52    DUCT DIFFUSER INNER INLET 23DAE         BABD                BAB          A
52    HOUSING COMP REAR BEARING 23DAF         BABF                BAB          A
52    CHAMBER WLDMNT NO 1-3-7   23DCA         BABJ                BAB          A
52    CHAMBER WLDMNT NO 2-6-8   23DCB         BABK                BAB          A
52    CHAMBER WLDMNT NO 4       23DCC         BABL                BAB          A
52    CHAMBER WLDMNT NO 5       23DCD         BABM                BAB          A
52    CASE ASSY COMBUSTION FRONT23DCE         BABN                BAB          A
52    FIRESEAL RIGHT            23DCF         BABP                BAB          A
52    FIRESEAL LEFT             23DCG         BABQ                BAB          A
52    FIRESEAL LOWER            23DCH         BABR                BAB          A
52   COMPRESSION                              BAC                 BAB              AAAAAAAAA
52   COMPRESSION                              BAC                 BAE             FAAAAAAAAA
52   INLET AIR                                BACA                BAC              AAAAAAAAA
52    VANE AND SHROUD ASSY COMP 23AAA         BACAA               BACA         A
52H   VANE 1ST STA COMP INLET   23AAC         BACAC               BACA         A
52H   SPACER COMP 1ST STAGE     23AAD         BACAD               BACA         A
52   PROBE ASSY COMP IN PRESS   23AAB         BACAE               BACA         1
52    CASE ASSY FR COMP FRONT   23FAA         BACB                BAC          A
52    VANE AND SHROUD ASSY 1 STA23BAB         BACC                BAC          A
52    VANE AND SHROUD ASSY 2 STA23BAC         BACD                BAC          A
52    VANE AND SHROUD ASSY 3 STA23BAD         BACE                BAC          A
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00000000011111111112222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
52   SPACER ASSY COMP OUT SHRD 23BAE  BACF          BAC          A
52   CASE ASSY FRONT COMPRESSOR23BAG  BACG          BAC          A
52   VANE AND SHROUD ASSY 4 STA23BAH  BACH          BAC          A
52   VANE AND SHROUD ASSY 5 STA23BAJ  BACJ          BAC          A
52   VANE AND SHROUD ASSY 6 STA23BAK  BACK          BAC          A
52   VANE AND SHROUD ASSY 7 STA23BAL  BACL          BAC          A
52   VANE AND SHROUD ASSY 8 STA23BAM  BACM          BAC          A
52   RING COMP ROTOR AIR SEAL  23BAP  BACN          BAC          A
52   ROTOR ASSY F COMPRESSOR   23BAQ  BACP          BAC          A
52   HUB F COMP ROTOR FRONT    23BAR  BACQ          BAC          A
52   HUB F COMP ROTOR REAR     23BAS  BACR          BAC          A
52   BLADE ROTOR NO 1          23BAX  BACS          BAC          A
52   BLADE ROTOR NO 2          23BAY  BACT          BAC          A
52   BLADE ROTOR NO 3          23BAZ  BACU          BAC          A
52   BLADE ROTOR NO 4          23BA1  BACV          BAC          A
52   BLADE ROTOR NO 5          23BA2  BACW          BAC          A
52   BLADE ROTOR NO 6          23BA3  BACX          BAC          A
52   BLADE ROTOR NO 7          23BA4  BACY          BAC          A
52   BLADE ROTOR NO 8          23BA5  BACZ          BAC          A
52   BLADE ROTOR NO 9          23BA6  BACZA         BAC          A
52   SPACER COMPRESSOR DISK    23BA7  BACZB         BAC          A
52   CASE ASSY COMP INTERMED   23BBA  BACZC         BAC          A
52   HOUSING ASSY COMP FR BRNG 23BBB  BACZD         BAC          A
52   SUPPORT COMP INTERIM BRNG 23BBC  BACZE         BAC          8
52   HOUSING SUPPORT COMP BRNG 23BBD  BACZF         BAC          A
52   HOUSING COMP INTERIM BRNG 23BBE  BACZG         BAC          A
52H  CASE FAN DISCHARGE        23BBG  BACZH         BAC          A
52   CASE ASSY REAR COMPRESSOR 23BCA  BACZJ         BAC          A
52   ROTOR ASSY REAR COMPRESSOR23BCB  BACZK         BAC          A
52H  VANE AND SHROUD ASSY 16STA23BCJ  BACZL         BAC          A
52   HUB R COMP ROTOR FRONT    23BCM  BACZM         BAC          A
52   HUB R COMP ROTOR REAR     23BCN  BACZN         BAC          A
52   BLADE ROTOR NO 10         23BCR  BACZP         BAC          A
52   BLADE ROTOR NO 16         23BCX  BACZQ         BAC          A
52   ROTOR AND CASE ASSY R COMP23BCY  BACZR         BAC          A
52   SUPPORT ASSY COMP FR BRNG 23ABA  BACZS         BAC          8
52   HOUSING COMP FR BRNG SEAL 23ABB  BACZT         BAC          A
52  ENGINE ROTATION                   BAD           BAC            AAAAAAAAA
52  ENGINE ROTATION                   BAD           BAYA           FAAAAAAAAA
52   CASE ASSY COMBUSTION INNER23EAA  BADA          BAD          A
52   SHIELD HEAT SHAFT BRNG 5  23EAB  BADB          BAD          A
52   HOUSING TURBINE FR BRNG   23EAC  BADC          BAD          A
52   SUPPORT ASSY FR BRNG SEAL 23EAD  BADD          BAD          8
52   SPACER TURBINE NOZZLE CASE23EAG  BADE          BAD          A
52   CLAMP ASSY COMB CHAMBER   23EAH  BADF          BAD          5
52   SUPPORT ASSY FR BRNG      23EAJ  BADG          BAD          8
52   DUCT ASSY COMB CH OUTLET  23EAK  BADH          BAD          A
52   RING ASSY TRB CASE POSNG  23EAL  BADJ          BAD          8
52   CASE ASSY TRB NOZZLE INNER23EAM  BADK          BAD          A
52H  CLAMP ASSY COMB CHAMBER   23EAN  BADL          BAD          5
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PGC095.JIR1    DATE = 10/16/75                              FLIGHT SAFETY PREDICTION TECHNIQUE

000000000111111111122222222223333333333444444444455555555556666666666777777777778
123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890
52   CASE ASSY TURBINE              23EBA    BADM                    BAD            A
52   VANE TURBINE 1 STAGE           23EBB    BADN                    BAD            A
52   VANE TURBINE 2 STAGE           23EBC    BADP                    BAD            A
52   VANE TURBINE 3 STAGE           23EBD    BADQ                    BAD            A
52H  VANE TURBINE 4 STAGE           23EBE    BADR                    BAD            A
52   ROTOR ASSY R COMP DR TRB       23EBJ    BADS                    BAD            A
52   COUPLING R COMP DR TRB SHT23EBK         BADT                    BAD            A
52   NOZZLE ASSY TRB 2 STAGE        23EBM    BADU                    BAD            A
52   NOZZLE ASSY TRB 3 STAGE        23EBN    BADV                    BAD            A
52   DISK-BLADE ASSY 2 STAGE        23EBP    BADW                    BAD            A
52   DISK-BLADE ASSY 3 STAGE        23EBQ    BADX                    BAD            A
52   HUB TURBINE ROTOR              23EBR    BADY                    BAD            A
52   SEAL-SHROUD 2 STA TRB ROT      23EBS    BADZ                    BAD            A
52   CASE ASSY COMB CHAMBER         23EBT    BADZA                   BAD            A
52   SEAL ASSY 1 STA OUTER  TRB23EBU         BADZB                   BAD            A
52   NOZZLE ASSY TRB 4 STAGE        23EBV    BADZC                   BAD            A
52H  DISK AND BLADE ASSY 4 STA      23EBW    BADZD                   BAD            A
52   ROTOR ASSY TR COMP DR TRB      23EBX    BADZE                   BAD            A
52G  SUPPORT-SHROUD ASSY STATOR23EBY         BADZF                   BAD            B
52G  SPACER ASSY TRB ROTOR          23EBZ    BADZG                   BAD            A
52   BLADE SET 1 STA TURBINE        23EB1    BADZH                   BAD            A
52   BLADE SET 2 STA TURBINE        23EB2    BADZJ                   BAD            A
52   BLADE SET 3 STA TURBINE        23EB3    BADZK                   BAD            A
52H  BLADE SET 4 STA TURBINE        23EB4    BADZL                   BAD            A
52G  SHROUD TURBINE VANE INNER      23EB5    BADZM                   BAD            A
52H  RING ASSY AIR SEAL 3 STA       23EB6    BADZN                   BAD            A
52H  RING ASSY AIR SEAL 4 STA       23EB7    BADZP                   BAD            A
52   BEARING NO 1 MAIN              23FAA    BADZQ                   BAD            A
52   BEARING NO 2 MAIN              23FAB    BADZR                   BAD            A
52H  BEARING NO 2 MAIN              23FAC    BADZS                   BAD            A
52   BEARING NO 3 MAIN              23FAD    BADZT                   BAD            A
52   BEARING NO 4 MAIN              23FAE    BADZU                   BAD            A
52   BEARING NO 4 MAIN              23FAF    BADZV                   BAD            A
52   BEARING NO 5 MAIN              23FAG    BADZW                   BAD            A
52   BEARING NO 6 MAIN              23FAH    BADZX                   BAD            A
52   SEAL ASSY NO 1 BEARING         23FCA    BADZY                   BAD            A
52   SEAL ASSY NO 2 BEARING         23FCB    BADZZ                   BAD            A
52   SEAL ASSY NO 3 BEARING         23FCD    BADZZA                  BAD            A
52   SEAL ASSY NO 4 BEARING         23FCE    BADZZB                  BAD            A
52   SEAL ASSY NO 4 BEARING         23FCF    BADZZC                  BAD            A
52   SEAL ASSY NO 5 BEARING         23FCG    BADZZD                  BAD            A
52   SEAL ASSY NO 6 BEARING         23FCH    BADZZE                  BAD            A
52   ENGINE BLEED AIR                        BAE                     BAEA           AAAAAAAAA
52H  ENGINE BLEED AIR                        BAE                     BAEAA         FAAAAAAAAA
52   BLEED AIR DISTRIBUTION                  BAEA                    BAJA           111111111
52   BLEED AIR DIST                          BAEA                    EFAD           AAAAAAAAA
52  BLEED AIR DIST                           BAEA                    EFAJ           AAAAAAAAA
52   ENGINE  BLEED AIR                       BAEA           (       LUHAH          FAAAAAAAAA
52   ENGINE  BLEED AIR                       BAEA           (       RUHAH          FAAAAAAAAA
52   ENGINE BLEED AIR                        BAEA           (       LUHBH          FAAAAAAAAA
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52  ENGINE BLEED AIR                          BAEA          RUHBH          FAAAAAAAAA
52H ENGINE STALL PREVENTION                   BAEAA          BAD            010000000
52H  VALVE STALL PREV OVERRIDE  23LQC  BAEAAA          BAEAA          A
52H  CDV    ASSY COMP BLEED     23LAC  BAEAAB         BAEAA          A
52H  ACTUATOR ASSY COMP BLEED   23LAB  BAEAAC         BAEAA          A
52G  DUCT ASSY ENG BLEED 1357   23PTB  BAEAE          BAEA           5
52G  DUCT ASSY ENG BLEED 2468   23PTC  BAEAF          BAEA           5
52G  DUCT ASSY WELD NAC PNEUM   23PUA  BAEAG          BAEA           1
52H  DUCT ASSY ENG BLEED 1278   23PVA  BAEAH          BAEA           0
52H  DUCT ASSY MANIFOLD    35   23PVC  BAEAJ          BAEA           5
52H  DUCT ASSY ENG BLEED   46   23PVE  BAEAK          BAEA           5
52H  DUCT ASSY ENG BLEED   45   23PVF  BAEAL          BAEA           5
52H  DUCT ASSY Y                23PWA  BAEAM          BAEA           5
52H  DUCT ASSY OUTBD STRUT STA  23PWB  BAEAN          BAEA           1
52H  DUCT ASSY INBD STRUT       23PWC  BAEAP          BAEA           5
52  GROUND SERVICE AIR                        BAEB          BAEA           000000000
52G  VALVE ASSY AIR CHECK       23PUB  BAEBA          BAEB           A
52G  ADAPTER GROUND CHARGER     23PUC  BAEBB          BAEB           0
52H  VALVE ASSY CHECK           23PXD  BAEBC          BAEB           1
52H  ADAPTER ASSY GND CHARGER   23PXE  BAEBD          BAEB           0
52H  DUCT ASSY GND CH SUP LINE  23PXA  BAEBE          BAEB           A
52H  DUCT ASSY GND CH UPPER     23PXB  BAEBF          BAEB           A
52H  DUCT ASSY GND CH NOSE COWL 23PXC  BAEBG          BAEB           A
52H  ELBOW ASSY NO 1-3-5-7 ENG  23PXF  BAEBH          BAEB           1
52H  ELBOW ASSY NO 2-4-6-8 ENG  23PXG  BAEBJ          BAEB           1
52   VALVE ASSY COMP BLEED      23LAA  BAEQ           BAE            2
52   ACTUATOR ASSY COMP BLEED   23LAB  BAER           BAE            2
52   TUBE AIR SUPPLY ENGINE     23LQA  BAET           BAE            1
52   TUBE BLEED VALVE           23LQB  BAEU           BAE            1
52   VALVE CHECK         <1278% 23PVB  BAEV           BAE            1
52   VALVE CHECK         <3456% 23PVD  BAEW           BAE            1
52G  VALVE ASSY AIR CHECK       23PTA  BAEX           BAE            1
52  FUEL CONTROL                           BAF           BAB              AAAAAAAAA
52  FUEL CONTROL                           BAF           BAN             FAAAAAAAAA
52   NOZZLE ASSY FUEL           23HAC  BAFA           BAF            1
52   DISTR ASSY FUEL MAN INLET  23HAD  BAFB           BAF            A
52   VALVE ASSY COMB CH DRAIN   23HAE  BAFC           BAF            1
52   PUMP ASSY FUEL             23HAF  BAFD           BAF            8
52   VALVE ASSY FUEL PRES-DUMP  23HAH  BAFE           BAF            1
52   CONTROL ASSY FUEL          23HAK  BAFF           BAF            A
52   FILTER FUEL CONTROL        23HAL  BAFG           BAF            1
52H  VALVE ASSY FUEL CHECK      23HAM  BAFH           BAF            1
52   TRAP ASSY MOISTURE         23HAP  BAFJ           BAF            1
52   TUBE FUEL OUTLET           23HQD  BAFK           BAF            5
52   TUBE STRAINER              23HQM  BAFL           BAF            1
52   STRAINER ASSY-ENGINE FUEL  23HQN  BAFM           BAF            1
52   BRACKET STRAINER SUPPORT   23HQP  BAFN           BAF            0
52   ELEMENT FUEL STRAINER      23HQQ  BAFP           BAF            1
52   TUBE FUEL PUMP DISCHARGE   23HRA  BAFQ           BAF            A
52   TUBE FUEL PUMP DRAIN       23HRB  BAFR           BAF            0
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52    TUBE STRAINER/PUMP INLET   23HFC    BAFS          BAF          1
52    TUBE FLOW XMIT DISCHARGE   23HFD    BAFT          BAF          1
52    TUBE COMB CH FUEL DR PORT  23HFE    BAFU          BAF          1
52    MANIFOLD ENG FUEL/OIL DRA1 23HRF    BAFV          BAF          1
52    TUBE FUEL BYPASS CONTROL   23HRG    BAFW          BAF          3
52    TUBE CONTR TO FLOW XMITTER 23HPH    BAFX          BAF          A
52  SHIELD                       23HAQ    BAFY          BAF          1
52    THROTTLE CONTROL                    BAH           BAF            AAAAAAAAA
52    THROTTLE CONTROL                    BAH           BAQ            FAAAAAAAAA
52     SHAFT ASSY POWER LEVER    23NAA    BAHA          BAH          8
52     BEARING CROSS-SHAFT       23NAB    BAHB          BAH          1
52     LEVER ASSY POWER CONTROL  23NAC    BAHC          BAH          8
52     ROD ASSY POWER CONT ACT   23NAD    BAHD          BAH          A
52     LEVER THROTTLE            23NQA    BAHE          BAH          8
52     STOP THROTTLE             23NQB    BAHF          BAH          1
52     DRUM THROTTLE CABLE       23NQC    BAHG          BAH          1
52     CABLE THROTTLE            23NQE    BAHJ          BAH          A
52     PULLEY THROTTLE CONTROL   23NQF    BAHK          BAH          1
52     REG THROTTLE CONT TENSION 23NQH    BAHL          BAH          7
52     SUPPORT BELLCRANK         23NQJ    BAHM          BAH          1
52     THROTTLE QUD INSTAL ENG   23NRQ    BAHN          BAH          8
52     THROTTLE BRK INSTAL ENG   23NSQ    BAHP          BAH          2
52  CAM THROTTLE WARN SW         23NQD    BAHQ          BAH          1
52  ENGINE OIL                             BAL           BAQ            AAAAAAAAA
52   OPERATIONAL STATUS                    BAM           BAPZ           111111111
52  EXHAUST GAS TEMPERATURE                BAMA          BAM            111111111
52    THERMOCOUPLE ASSY         23MAA    BAMAA         BAMA         A
52    HARNESS THERMOCOUPLE      23MAB    BAMAB         BAMA         8
52    LEAD ASSY THERMOCOUPLE    23MAC    BAMAC         BAMA         8
52    INDICATOR EXH GAS TEMP    51ELA    BAMAD         BAMA         A
52    FUEL FLOW RATE                     BAMF          BAM    I BAF   111111111
52      INDICATOR FUEL FLOW RATE51ECA    BAMFA         BAMF         2
52      XMITTER FUEL FLOW RATE  51ECB    BAMFB         BAMF         A
52      INDICATOR TOTAL FUEL    51ECC    BAMFC         BAMF         1
52      POWER SUPPLY  FLOW RATE 51ECD    BAMFD         BAMF         A
52    OIL PRESSURE                       BAMP          BAM    I BAP   555555555
52      INDICATOR OIL PRESSURE  51EBA    BAMPA         BAMP         1
52      MOUNT OIL PRES XMITTER  51EBC    BAMPB         BAMP         5
52H XMITTER OIL PRES TRU66A     51EBH    BAMPC         BAMP         1
52G     XMITTER OIL PRES        51EBF    BAMPD         BAMP         1
52      ENG LOW PRES WARNING    49DFC    BAMPE         BAMP         1
52  ENGINE PRESSURE RATIO                  BAMR          BAM            111111111
52   PROBE PRESSURE SENSING     23MBA    BAMRA         BAMR         A
52   PT2 LINES AND TUBING       23MBB    BAMPB         BAMR         A
52   PT 7 LINES AND TUBING      23MBC    BAMRC         BAMR         A
52   INDICATOR ENG PRES RATIO   51EEA    BAMRD         BAMR         A
52   XDUCER ENG PRES RATIO      51EFB    BAMRE         BAMR         A
52   MOTOR GENERATOR            51EEC    BAMRF         BAMP         A
52   PROBE ASSY COMP INLET PRES23AAB    BAMRG         BAMR         1
52  ENGINE SPEED                           BAMS          BAM            111111111
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52	TACHOMETER	51FAA	BAMSA	BAMS		A	
52	GENERATOR TACHOMETER	51LAG	BAMSB	BAMS		A	
52	OIL TEMPERATURE		BAMT	BAM	I BAN		11111111
52	LIGHT MASTER CAUTION	49DDD	BAMTA	BAMT		1	
52	PROBE ENG OIL TEMP	51EFB	BAMTB	BAMT		A	
52	INDICATOR ENG OIL TEMP	51EFA	BAMTC	BAMT		1	
52H	CONTROLLER MASTER	49EFA	BAMTD	BAMT		1	
52	SWITCH SELECTOR	51EFC	BAMTD	BAMT		3	
52H	INDICATOR CENTRAL CAUTION	49DEJ	BAMTE	BAMT		1	
52	CONTROL M-CAUTION LIGHT	49EDA	BAMTF	BAMT		1	
52H	RELAY CENTRAL CAUTION	49DEG	BAMTG	BAMT		1	
52H	PANEL CENTRAL CAUTION	49DEH	BAMTH	BAMT		1	
52	OIL COOLING		BAN	BAL			00888800
52G	TUBE EJECTION AIR SUPPLY	23JQB	BANA	BAN		0	
52G	VALVE EJECTOR	23JQC	BANB	BAN		0	
52	COOLER-VALVE ASSY A/F-OIL	23JAD	BANC	BAN		5	
52	TUBE COOLER OIL INLET	23JQA	BAND	BAN		1	
52H	TUBE ASSY FUEL OIL COOLER	23JQM	BANE	BAN		1	
52H	TUBE ASSY FUEL OIL COOLER	23JQN	BANF	BAN		1	
52G	DUCT AIR INLET OIL COOLER	23JQR	BANG	BAN		1	
52	THERMOSTAT OIL TEMP CONT	23JQP	BANH	BAN		5	
52	OIL PRESSURIZATION		BAP	BAL			AAAAAAAA
52	PUMP ASSY-OIL	23JBD	BAPA	BAP		A	
52	VALVE ASSY OIL FILTER	23JAF	BAPB	BAP		A	
52	VALVE ASSY PRES RELIEF	23JAG	BAPC	BAP		5	
52	STRAINER ASSY-MAIN OIL	23JAH	BAPD	BAP		1	
52	VALVE ASSY BREATHER PRES	23JAE	BAPE	BAP		0	
52	TUBE ASSY OIL PRESSURE	23JQJ	BAPF	BAP		A	
52	TUBE ASSY SCAVANGE OIL	23JQK	BAPG	BAP		A	
52	ENGINE STATUS		BAPZ	BAA			11111111
52	ENGINE START		BAQ	BAD			AAAAAAAA
52	GROUND START		BAQA	BAQ			00000000
52	STARTER PNEUMATIC	23KQA	BAQAB	BAQA		A	
52	RELAY-STARTER	23KQB	BAQAC	BAQA		A	
52	VALVE PNEUM START CONTROL	23KQC	BAQAD	BAQA		A	
52H	ADAPTER-STARTER MOUNT	23KQE	BAQAE	BAQA		1	
52	DUCT ENG TO CONTROL VALVE	23KQG	BAQAF	BAQA		1	
52	DUCT CONTR VALVE-STARTER	23KQH	BAQAG	BAQA		1	
52	STARTER-CARTRIDGE	23KQJ	BAQAH	BAQA		A	
52	CHAMBER CART START BREECH	23KQK	BAQAJ	BAQA		1	
52	CAP CART START BREECH	23KQL	BAQAK	BAQA		1	
52	VALVE RELIEF	23KQN	BAQAL	BAQA		1	
52	DUCT EXHAUST	23KQP	BAQAM	BAQA		1	
52	VALVE CART START CONTROL	23KQQ	BAQAN	BAQA		A	
52	DUCT AIR INLET	23KQR	BAQAP	BAQA		1	
52	ADAPTER ASSY START DRIVE	23CBA	BAQAQ	BAQA		1	
52	BEARING	23CBC	BAQAR	BAQA		1	
52	SHAFT GEAR	23CBD	BAQAS	BAQA		5	
52	AIR START		BAQS	BAQ	T		00AAAAA00
52	RELAY-STARTER	23KQB	BAQSA	BAQS		A	

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52H    SUST IGNITION  ATTEN.           BAR             BAT                111111111
52H    SUSTAINED AC IGNITION           BARA            BAR                111111111
52H     EXCITER IGNITION AC     23KAG  BARAA           BARA        A
52    OIL SCAVENGE                     BAS             BAL                005AAA500
52     PUMP ASSY OIL SUCTION FF 23JEA  BASA            BAS         1
52     PUMP ASSY SCAV BRNG 4-5  23JEB  BASB            BAS         1
52     PUMP ASSY SUCT TRB F BRNG23JEC  BASC            BAS         1
52     PUMP SCAV OIL PRES ACCESS23JEE  BASD            BAS         A
52     PINION R BEAR OIL PUMP   23FCE  BASE            BAS         1
52     SUMP ASSY REAR BEAR      23FCF  BASF            BAS         1
52    IGNITION                         BAT             BAR                AAAAAAAAA
52    OIL SUPPLY                       BAU             BAL                AAAAAAAAA
52     TANK ASSY OIL            23JAA  BAUA            BAU         A
52     VALVE ASSY DRAIN         23JAB  BAUB            BAU         1
52     TUBE ASSY TANK-TO-PUMP   23JQF  BAUC            BAU         A
52     TUBE ASSY ENG RETURN OIL 23JQL  BAUD            BAU         A
52     INITIAL DC IGNITION             BAV             BAT    T           00AAAAA00
52      EXITER IGNITION DC      23KAA  BAVA            BAV         A
52      COMPOSITOR IGNITION     23KAB  BAVB            BAV         A
52      SPARK IGNITER  <2%      23KAC  BAVC            BAV         1
52      LEAD HIGH TENSION       23KAD  BAVD            BAV         A
52      LEAD INTERMEDIATE VOLTS 23KAE  BAVE            BAV         A
52      J-BOX AND ELEC HARNESS  23KAF  BAVF            BAV         8
52G WATER INJECTION                    BAW             BAF               FAAAAAAAA
52G WATER INJECTION                    BAW             BAZ                111111111
52G  CONTR ASSY INJECT INLET    23RAA  BAWA            BAW         A
52G  SCREEN WATER INJECT        23RAB  BAWB            BAW         1
52G  CONTR ASSY INJECT DIFF     23RAC  BAWC            BAW         A
52G  VALVE ASSY PRES SENS DRAIN23RAD   BAWD            BAW         1
52G  VALVE ASSY WATER INJ CHK   23RAE  BAWE            BAW         1
52G  MANIFOLD WATER INJ RIGHT   23RAF  BAWF            BAW         1
52G  MANIFOLD WATER INJ LEFT    23RAG  BAWG            BAW         1
52G  VALVE WATER SHUTOFF        23RQA  BAWH            BAW         1
52G  COUPLING WATER TOLERANCE   23RQB  BAWJ            BAW         1
52G  CHAMBER SURGE              23RQC  BAWK            BAW         1
52G  TUBE WATER PUMP INLET      23RQD  BAWL            BAW         1
52G  PUMP ENGINE DRIVEN -WATER  23RQE  BAWM            BAW         A
52G  TUBE DIVIDER FITTING OUT   23RQG  BAWN            BAW         1
52G  REGULATOR PRESSURE         23RQH  BAWP            BAW         A
52G  TUBE WATER TRANSFER        23RQK  BAWQ            BAW         A
52  WARNING                            BAX             BAPZ               111111111
52   ENGINE FIRE WARNING               BAXF            BAX                333333333
52   ENGINE FIRE                       BAXF            BAX    X           AAAAAAAAA
52    DETECTOR ENGINE FIRE      49EAD  BAXFA           BAXF        A
52  STARTER NOT OFF                    BAXT            BAX    I BAQA      111111111
52   LIGHT MASTER CAUTION       49DDD  BAXTA           BAXT        1
52H  INDICATOR CENTRAL CAUTION  49DEJ  BAXTB           BAXT        1
52  CONTROL MASTER CAUTION      49DDA  BAXTC           BAXT        1
52H  RELAY  CENTRAL CAUTION     49DEG  BAXTD           BAXT        1
52H  PANEL  CENTRAL CAUTION     49DEH  BAXTE           BAXT        1
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52H  CONTROLLER MASTER CAUTION 49DEA    BAXTF          BAX1          1
52G WATER INJECTION LOW PRES           BAXW           BAX    I BAw    01000000
52G  SW LOW PRESSURE WARNING   23F01   BAXWA          BAXW          A
52  ACCESSORY DRIVE   NO 1             BAYA           BAF             AAAAAAAAA
52  ACCESSORY DRIVE  NO 1              BAYA           UATA            AAAAAAAAA
52  ACCESSORY DRIVE  NO 1              BAYA           UHEL            AAAAAAAAA
52   HOUSING ASSY              23CAA   BAYAA          BAYA          A
52   BEARING ACCESSORY DRIVE   23CAB   BAYAB          BAYA          A
52   COUPLING ACCESSORY DRIVE  23CAC   BAYAC          BAYA          A
52   SHAFTGEAR ASSY MAIN DRIVE 23CAD   BAYAD          BAYA          A
52   GEAR ACCESSORY DRIVE      23CAE   BAYAE          BAYA          A
52   BREATHER ASSY ACCESS DRIVE23CAF   BAYAF          BAYA          1
52   ADAPTER ASSY ACCESS DRIVE 23CCA   BAYAK          BAYA          A
52   SHAFT ACCESS DRIVE        23CCB   BAYAL          BAYA          A
52   GEAR  ACCESS DRIVE        23CCD   BAYAM          BAYA          A
52   HOUSING ACCESS DR BEARING 23DBA   BAYAW          BAYA          A
52   GEARSHAFT ASSY MAIN ACC DR23DBB   BAYAX          BAYA          A
52   BEARING ACCESSORY DRIVE   23DBC   BAYAY          BAYA          A
52   SUPPORT ASSY FRNT ACC DR  23ABD   BAYAZ          BAYA          A
52   BEARING FRONT DRIVE       23ABE   BAYAZA         BAYA          A
52   SHAFT ACCESS DRIVE MAIN   23ABF   BAYAZB         BAYA          A
52   SUPPORT ASSY FRNT ACC DR  23ABL   BAYAZC         BAYA          A
52  NO 2 ACCESSORY DRIVE               BAYB           BAA             SAAAAAAAAA
52G NO 2 ACCESSORY DRIVE               BAYB           BAw             AAAAAAAAA
52   HOUSING ASSY    NO  2     23CAA   BAYBA          BAYB          A
52   BEARING ACCESSORY DRIVE   23CAB   BAYBB          BAYB          A
52   COUPLING ACCESSORY DRIVE  23CAC   BAYBC          BAYB          A
52   SHAFTGEAR ASSY MAIN DRIVE 23CAD   BAYBD          BAYB          A
52   GEAR ACCESSORY DRIVE      23CAE   BAYBE          BAYB          A
52   BREATHER ASSY ACCESS DRIVE23CAF   BAYBF          BAYB          1
52   ADAPTER ASSY ACCESS DRIVE 23CCA   BAYBK          BAYB          A
52   SHAFT ACCESS DRIVE        23CCB   BAYBL          BAYB          A
52   GEAR  ACCESS DRIVE        23CCD   BAYBM          BAYB          A
52   BEARING ACCESS DRIVE      23CCE   BAYBN          BAYB          A
52   COUPLING ASSY DR EXT SHAFT23CDA   BAYBP          BAYB          A
52   BEARING ACCESS DR SHAFT   23CDB   BAYBQ          BAYB          A
52   GEAR ACCESS DRIVE         23CDC   BAYBR          BAYB          A
52   SUPPORT ASSY ACCESS DR BRG23CDD   BAYBS          BAYB          A
52   SHAFT ASSY ACCESS DR EXT  23CDE   BAYBT          BAYB          A
52   TUBE ASSY ACCESS DR SHAFT 23CDF   BAYBU          BAYB          1
52G  CONNECTOR OIL PRES HOSE   23CDG   BAYBV          BAYB          1
52   HOUSING ACCESS DR BEARING 23DBA   BAYBW          BAYB          A
52   GEARSHAFT ASSY MAIN ACC DR23DBB   BAYBX          BAYB          A
52   BEARING ACCESSORY DRIVE   23DBC   BAYBY          BAYB          A
52   SUPPORT ASSY FRNT ACC DR  23ABD   BAYBZ          BAYB          A
52   BEARING FRONT DRIVE       23ABE   BAYBZA         BAYB          A
52   SHAFT ACCESS DRIVE MAIN   23ABF   BAYBZB         BAYB          A
52   SUPPORT ASSY FRNT ACC DR  23ABL   BAYBZC         BAYB          A
52  NO 3 ACCESSORY DRIVE               BAYC           BAA             SAAAAAAAAA
52  ACCESSORY DRIVE  NO 3              BAYC           UAWA            AAAAAAAAA
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52	ACCESSORY DRIVE NO 3		BAYC	LUBBE		AAAAAAAAA
52	HOUSING ASSY NO 3	23CAA	BAYCA	BAYC	A	
52	BEARING ACCESSORY DRIVE	23CAB	BAYCB	BAYC	A	
52	COUPLING ACCESSORY DRIVE	23CAC	BAYCC	BAYC	A	
52	SHAFTGEAR ASSY MAIN DRIVE	23CAD	BAYCD	BAYC	A	
52	GEAR ACCESSORY DRIVE	23CAE	BAYCE	BAYC	A	
52	BREATHER ASSY ACCESS DRIVE	23CAF	BAYCF	BAYC	1	
52	ADAPTER ASSY ACCESS DRIVE	23CCA	BAYCK	BAYC	A	
52	SHAFT ACCESS DRIVE	23CCB	BAYCL	BAYC	A	
52	GEAR ACCESS DRIVE	23CCD	BAYCM	BAYC	A	
52	BEARING ACCESS DRIVE	23CCE	BAYCN	BAYC	A	
52	COUPLING ASSY DR EXT SHAFT	23CDA	BAYCP	BAYC	A	
52	BEARING ACCESS DR SHAFT	23CDB	BAYCQ	BAYC	A	
52	GEAR ACCESS DRIVE	23CDC	BAYCR	BAYC	A	
52	SUPPORT ASSY ACCESS DR BRG	23CDD	BAYCS	BAYC	A	
52	SHAFT ASSY ACCESS DR EXT	23CDE	BAYCT	BAYC	A	
52	TUBE ASSY ACCESS DR SHAFT	23CDF	BAYCU	BAYC	1	
52G	CONNECTOR OIL PRES HOSE	23CDG	BAYCV	BAYC	1	
52	HOUSING ACCESS DR BEARING	23DBA	BAYCW	BAYC	A	
52	GEARSHAFT ASSY MAIN ACC DR	23DBB	BAYCX	BAYC	A	
52	BEARING ACCESSORY DRIVE	23DBC	BAYCY	BAYC	A	
52	SUPPORT ASSY FRNT ACC DR	23ABD	BAYCZ	BAYC	A	
52	BEARING FRONT DRIVE	23ABE	BAYCZA	BAYC	A	
52	SHAFT ACCESS DRIVE MAIN	23ABF	BAYCZB	BAYC	A	
52	SUPPORT ASSY FRNT ACC DR	23AEL	BAYCZC	BAYC	A	
52	NO 4 ACCESSORY DRIVE		BAYD	BAA		SAAAAAAAAA
52G	NO 4 ACCESSORY DRIVE		BAYD	BAW		SAAAAAAAAA
52	ACCESSORY DRIVE NO 4		BAYD	UHGL		AAAAAAAAA
52	HOUSING ASSY NO 4	23CAA	BAYDA	BAYD	A	
52	BEARING ACCESSORY DRIVE	23CAB	BAYDB	BAYD	A	
52	COUPLING ACCESSORY DRIVE	23CAC	BAYDC	BAYD	A	
52	SHAFTGEAR ASSY MAIN DRIVE	23CAD	BAYDD	BAYD	A	
52	GEAR ACCESSORY DRIVE	23CAE	BAYDE	BAYD	A	
52	BREATHER ASSY ACCESS DRIVE	23CAF	BAYDF	BAYD	1	
52	ADAPTER ASSY ACCESS DRIVE	23CCA	BAYDK	BAYD	A	
52	SHAFT ACCESS DRIVE	23CCB	BAYDL	BAYD	A	
52	GEAR ACCESS DRIVE	23CCD	BAYDM	BAYD	A	
52	BEARING ACCESS DRIVE	23CCE	BAYDN	BAYD	A	
52	COUPLING ASSY DR EXT SHAFT	23CDA	BAYDP	BAYD	A	
52	BEARING ACCESS DR SHAFT	23CDB	BAYDQ	BAYD	A	
52	GEAR ACCESS DRIVE	23CDC	BAYDR	BAYD	A	
52	SUPPORT ASSY ACCESS DR BRG	23CDD	BAYDS	BAYD	A	
52	SHAFT ASSY ACCESS DR EXT	23CDE	BAYDT	BAYD	A	
52	TUBE ASSY ACCESS DR SHAFT	23CDF	BAYDU	BAYD	1	
52G	CONNECTOR OIL PRES HOSE	23CDG	BAYDV	BAYD	1	
52	HOUSING ACCESS DR BEARING	23DBA	BAYDW	BAYD	A	
52	GEARSHAFT ASSY MAIN ACC DR	23DBB	BAYDX	BAYD	A	
52	BEARING ACCESSORY DRIVE	23DBC	BAYDY	BAYD	A	
52	SUPPORT ASSY FRNT ACC DR	23ABD	BAYDZ	BAYD	A	
52	BEARING FRONT DRIVE	23ABF	BAYDZA	BAYD	A	

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52   SHAFT ACCESS DRIVE MAIN    23ABE    BAYDZB          BAYD          A
52   SUPPORT ASSY FRNT ACC DR   23ABL    BAYDZC          BAYD          A
52  NO 5 ACCESSORY DRIVE                 BAYE            BAA            SAAAAAAAAA
52  ACCESSORY DRIVE  NO 5                BAYE            UAVA           AAAAAAAAA
52   HOUSING ASSY     NO 5      23CAA    BAYEA           BAYE          A
52   BEARING ACCESSORY DRIVE    23CAB    BAYEB           BAYE          A
52   COUPLING ACCESSORY DRIVE   23CAC    BAYEC           BAYE          A
52   SHAFTGEAR ASSY MAIN DRIVE  23CAD    BAYED           BAYE          A
52   GEAR ACCESSORY DRIVE       23CAE    BAYEE           BAYE          A
52   BREATHER ASSY ACCESS DRIVE 23CAF    BAYEF           BAYE          1
52   ADAPTER ASSY ACCESS DRIVE  23CCA    BAYEK           BAYE          A
52   SHAFT ACCESS DRIVE         23CCB    BAYEL           BAYE          A
52   GEAR  ACCESS DRIVE         23CCE    BAYEM           BAYE          A
52   BEARING ACCESS DRIVE       23CCF    BAYEN           BAYE          A
52   COUPLING ASSY DR EXT SHAFT 23CDA    BAYEP           BAYE          A
52   BEARING ACCESS DR SHAFT    23CDB    BAYEQ           BAYE          A
52   GEAR ACCESS DRIVE          23CDC    BAYER           BAYE          A
52   SUPPORT ASSY ACCESS DR BRG 23CDD    BAYES           BAYE          A
52   SHAFT ASSY ACCESS DR EXT   23CDE    BAYET           BAYE          A
52   TUBE ASSY ACCESS DR SHAFT  23CDF    BAYEU           BAYE          1
526  CONNECTOR OIL PRES HOSE    23CDG    BAYEV           BAYE          1
52   HOUSING ACCESS DR BEARING  23DBA    BAYEW           BAYE          A
52   GEARSHAFT ASSY MAIN ACC DR 23DBB    BAYEX           BAYE          A
52   BEARING ACCESSORY DRIVE    23DBC    BAYEY           BAYE          A
52   SUPPORT ASSY FRNT ACC DR   23ABD    BAYEZ           BAYE          A
52   BEARING FRONT DRIVE        23ABE    BAYEZA          BAYE          A
52   SHAFT ACCESS DRIVE MAIN    23ABF    BAYEZB          BAYE          A
52   SUPPORT ASSY FRNT ACC DR   23ABL    BAYEZC          BAYE          A
52  NO 6 ACCESSORY DRIVE                 BAYF            BAA            SAAAAAAAAA
526 NO 6 ACCESSORY DRIVE                 BAYF            BAW            SAAAAAAAAA
52  ACCESSORY DRIVE  NO 6                BAYF            RUHBE          AAAAAAAAA
52   HOUSING ASSY     NO 6      23CAA    BAYFA           BAYF          A
52   BEARING ACCESSORY DRIVE    23CAB    BAYFB           BAYF          A
52   COUPLING ACCESSORY DRIVE   23CAC    BAYFC           BAYF          A
52   SHAFTGEAR ASSY MAIN DRIVE  23CAD    BAYFD           BAYF          A
52   GEAR ACCESSORY DRIVE       23CAE    BAYFE           BAYF          A
52   BREATHER ASSY ACCESS DRIVE 23CAF    BAYFF           BAYF          1
52   ADAPTER ASSY ACCESS DRIVE  23CCA    BAYFK           BAYF          A
52   SHAFT ACCESS DRIVE         23CCB    BAYFL           BAYF          A
52   GEAR  ACCESS DRIVE         23CCE    BAYFM           BAYF          A
52   BEARING ACCESS DRIVE       23CCF    BAYFN           BAYF          A
52   COUPLING ASSY DR EXT SHAFT 23CDA    BAYFP           BAYF          A
52   BEARING ACCESS DR SHAFT    23CDB    BAYFQ           BAYF          A
52   GEAR ACCESS DRIVE          23CDC    BAYFR           BAYF          A
52   SUPPORT ASSY ACCESS DR BRG 23CDD    BAYFS           BAYF          A
52   SHAFT ASSY ACCESS DR EXT   23CDE    BAYFT           BAYF          A
52   TUBE ASSY ACCESS DR SHAFT  23CDF    BAYFU           BAYF          1
526  CONNECTOR OIL PRES HOSE    23CDG    BAYFV           BAYF          1
52   HOUSING ACCESS DR BEARING  23DBA    BAYFW           BAYF          A
52   GEARSHAFT ASSY MAIN ACC DR 23DBB    BAYFX           BAYF          A
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52    BEARING ACCESSORY DRIVE    23DEC    BAYFY                     BAYF          A
52    SUPPORT ASSY FRNT ACC DR   23AED    BAYFZ                     BAYF          A
52    BEARING FRONT DRIVE        23ADE    BAYFZA                    BAYF          A
52    SHAFT ACCESS DRIVE MAIN    23AEF    BAYFZB                    BAYF          A
52    SUPPORT ASSY FRNT ACC DR   23AEL    BAYFZC                    BAYF          A
52   NO 7 ACCESSORY DRIVE                 BAYG                      BAA          SAAAAAAAAA
52   ACCESSORY DRIVE  NO 7                BAYG                      UAUA          AAAAAAAAA
52   ACCESSORY DRIVE  NO 7                BAYG                      UHER          AAAAAAAAA
52    HOUSING ASSY      NO 7     23CAA    BAYGA                     BAYG          A
52    BEARING ACCESSORY DRIVE    23CAB    BAYGB                     BAYG          A
52    COUPLING ACCESSORY DRIVE   23CAC    BAYGC                     BAYG          A
52    SHAFTGEAR ASSY MAIN DRIVE  23CAD    BAYGD                     BAYG          A
52    GEAR ACCESSORY DRIVE       23CAE    BAYGE                     BAYG          A
52    BREATHER ASSY ACCESS DRIVE23CAF     BAYGF                     BAYG          1
52    ADAPTER ASSY ACCESS DRIVE  23CCA    BAYGK                     BAYG          A
52    SHAFT ACCESS DRIVE         23CCB    BAYGL                     BAYG          A
52    GEAR  ACCESS DRIVE         23CCD    BAYGM                     BAYG          A
52    BEARING ACCESS DRIVE       23CCE    BAYGN                     BAYG          A
52    COUPLING ASSY DR EXT SHAFT23CDA     BAYGP                     BAYG          A
52    BEARING ACCESS DR SHAFT    23CDB    BAYGQ                     BAYG          A
52    GEAR ACCESS DRIVE          23CDC    BAYGR                     BAYG          A
52    SUPPORT ASSY ACCESS DR BRG23CDD     BAYGS                     BAYG          A
52    SHAFT ASSY ACCESS DR EXT   23CDE    BAYGT                     BAYG          A
52    TUBE ASSY ACCESS DR SHAFT  23CDF    BAYGU                     BAYG          1
52G   CONNECTOR OIL PRES HOSE    23CDG    BAYGV                     BAYG          1
52    HOUSING ACCESS DR BEARING  23DBA    BAYGW                     BAYG          A
52    GEARSHAFT ASSY MAIN ACC DR23DEB     BAYGX                     BAYG          A
52    BEARING ACCESSORY DRIVE    23DBC    BAYGY                     BAYG          A
52    SUPPORT ASSY FRNT ACC DR   23ABD    BAYGZ                     BAYG          A
52    BEARING FRONT DRIVE        23ADE    BAYGZA                    BAYG          A
52    SHAFT ACCESS DRIVE MAIN    23ACF    BAYGZB                    BAYG          A
52    SUPPORT ASSY FRNT ACC DR   23AEL    BAYGZC                    BAYG          A
52   NO 8 ACCESSORY DRIVE                 BAYH                      BAA          SAAAAAAAAA
52G  NO 8 ACCESSORY DRIVE                 BAYH                      EAW          SAAAAAAAAA
52    HOUSING ASSY      NO 8     23CAA    BAYHA                     BAYH          A
52    BEARING ACCESSORY DRIVE    23CAB    BAYHB                     BAYH          A
52    COUPLING ACCESSORY DRIVE   23CAC    BAYHC                     BAYH          A
52    SHAFTGEAR ASSY MAIN DRIVE  23CAD    BAYHD                     BAYH          A
52    GEAR ACCESSORY DRIVE       23CAE    BAYHE                     BAYH          A
52    BREATHER ASSY ACCESS DRIVE23CAF     BAYHF                     BAYH          1
52    ADAPTER ASSY ACCESS DRIVE  23CCA    BAYHK                     BAYH          A
52    SHAFT ACCESS DRIVE         23CCB    BAYHL                     BAYH          A
52    GEAR  ACCESS DRIVE         23CCD    BAYHM                     BAYH          A
52    BEARING ACCESS DRIVE       23CCE    BAYHN                     BAYH          A
52    COUPLING ASSY DR EXT SHAFT23CDA     BAYHP                     BAYH          A
52    BEARING ACCESS DR SHAFT    23CDB    BAYHQ                     BAYH          A
52    GEAR ACCESS DRIVE          23CDC    BAYHR                     BAYH          A
52    SUPPORT ASSY ACCESS DR BRG23CDD     BAYHS                     BAYH          A
52    SHAFT ASSY ACCESS DR EXT   23CDE    BAYHT                     BAYH          A
52    TUBE ASSY ACCESS DR SHAFT  23CDF    BAYHU                     BAYH          1
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526  CONNECTOR OIL PRES HOSE      23C0G   BAYHV          BAYH          1
52    HOUSING ACCESS DR BEARING   23DBA   BAYHW          BAYH          A
52    GEARSHAFT ASSY MAIN ACC DR  23LBE   BAYHX          BAYH          A
52    BEARING ACCESSORY DRIVE     23LBC   BAYHY          BAYH          A
52    SUPPORT ASSY FRNT ACC DR    23ABD   BAYHZ          BAYH          A
52    BEARING FRONT DRIVE         23ABE   BAYHZA         BAYH          A
52    SHAFT ACCESS DRIVE MAIN     23ABF   BAYHZB         BAYH          A
52    SUPPORT ASSY FRNT ACC DR    23ABL   BAYHZC         BAYH          A
526 ATTEN -WATER INJECTION                BAZ            BA                  010000000
52   NO 2 NACELLE                         BB             B       9 BBB       09AAAAA90
52  NO 2 NACELLE                          BB             B                   010000000
52  SINGLE ENGINE OUT                     BBB            BBB                 FAAAAAAAAA
52  NO 3 NACELLE                          BC             B                   010000000
52  NO 3 NACELLE                          BC             B       9 BBB       09AAAAA90
52  NO 4 NACELLE                          BD             B       9 BBB       09AAAAA90
52  NO 4 NACELLE                          BD             B                   010000000
52  NO 1 NACELLE FUEL                     BFA            BA                  0AAAAAAA0
52    MANIFOLD ASSY FUEL RIGHT    23EAA   BFAA           BFA           1
52    MANIFOLD ASSY FUEL LEFT     23EAB   BFAB           BFA           1
52    VALVE FIREWALL SHUTOFF 82<46AAC     BFAC           BFA           A
52    ACTUATOR FIREWALL SHUTOFF   46AAH   BFAD           BFA           1
52    COUPLING FUEL LINE          46AAZ   BFAE           BFA           1
52    LEVER THROTTLE              23NGA   BFAF           BFA           1
52    STOP THROTTLE               23NGB   BFAG           BFA           1
52    DRUM THROTTLE CABLE         23NGC   BFAH           BFA           1
52    CABLE THROTTLE              23NGE   BFAK           BFA           1
52    PULLEY THROTTLE CONTROL     23NGF   BFAL           BFA           1
52    REGULATOR THROTTLE TENSION23NGH     BFAM           BFA           1
52  SWITCH ENG FUEL SHUTOFF SW 49EBA      BFAN           BFA           1
52  PRIMARY FUEL                          BFB            BFA     BFE   011111110
52  NO 1 MAIN XFER AND SUPPLY             BFC            BFB     BFE   000010110
52  NO 1 MAIN XFER AND SUPPLY             BFC            BFB   K BFE   0AAAGAG00
52  TANK MAIN WING INTEGRAL     46EAA   BFCA           BFC           1
52    PUMP BOOST 84<              46AAA   BFCB           BFC           2
52    ACTUATOR BOOST PUMP 84<     46AAE   BFCC           BFC           2
52    RELAY BOOST PUMP 64<        46AA2   BFCD           BFC           2
52    VALVE INWARD VENT FLOAT     46EAA   BFCE           BFC           1
52    TUBE TANK VENT              46DAT   BFCF           BFC           1
52    VALVE TK VENT DRAIN FLOAT   46EAU   BFCG           BFC           1
52    VALVE AIR BLEED FLOAT       46EAV   BFCH           BFC           1
52    VALVE FUEL LEVEL CONT | 1946FCC     BFCJ           BFC           5
52    SW PRESSURE GND CHECK       46AAN   BFCK           BFC           0
52  FUEL MANAGEMENT                       BFD            BFC                 AAAAAAAAA
52    FUEL FEED                           BFDA           BFD                 AAAAAAAAA
52      SW FUEL NO 1              46AA3   BFDAA          BFDA          A
52    FUEL STATUS                         BFDB           BFD                 111111111
52      INDICATOR FUEL QTY        51EAE   BFDBA          BFDB          1
52    PROBE FUEL QTY              51EAF   BFDBB          BFDB          1
52    COMPENSATOR FUEL INDICATOR51EAH     BFDBC          BFDB          1
52    FUEL XFER                           BFDC           BFD                 AAAAAAAAA
52      SW FUEL MANAGEMENT  | 19 46AEK    BFDCA          BFDC          A
52  AUXILLIARY XFER AND SUPPLY            BFE            BFB     BFC   011101000
52  AUXILLIARY XFER AND SUPPLY            BFE            BFB   K BFC   0000A0AA0
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52    VALVE AUX FEED  | 13       46ABH    BFFA                 BFF           A
52   CROSS-FEED                           BFF                  BFA    K BFB   0AAAAAAA0
52   NO 2 MAIN SUPPLY AVAILABLE           BFFA                 BFFAD          11111111
52    VALVE SHUTOFF XFEED  | 10 46AAP     BFFAA                BFFA          A
52    VALVE ENG XFEED MANIFOLD  46AAV     BFFAB                BFFA          A
52    ACTUATOR ENG XFEED VALVE  46AAW     BFFAC                BFFA          A
52   CROSS-FEED ATTEN                     BFFAD                BFF            11111111
52   NO 3 MAIN SUPPLY AVAILABLE           BFFB                 BFFAD          11111111
52    VALVE SHUTOFF XFEED  | 11 46AAP     BFFBA                BFFB          A
52    VALVE ENG XFEED MANIFOLD  46AAV     BFFBB                BFFB          A
52    ACTUATOR ENG XFEED VALVE  46AAW     BFFBC                BFFB          A
52   NO 4 MAIN SUPPLY AVAILABLE           BFFC                 BFFAD          11111111
52    VALVE SHUTOFF XFEED  | 12 46AAP     BFFCA                BFFC          A
52    VALVE ENG XFEED MANIFOLD  46AAV     BFFCB                BFFC          A
52    ACTUATOR ENG XFEED VALVE  46AAW     BFFCC                BFFC          A
52    VALVE SHUTOFF XFEED  | 9  46AAP     BFFX                 BFF           A
52    VALVE ENG XFEED MANIFOLD  46AAV     BFFY                 BFF           A
52    ACTUATOR ENG XFEED VALVE  46AAW     BFFZ                 BFF           A
52   NO 2 NACELLE FUEL                    BFG                  BB             0AAAAAAA0
52    MANIFOLD ASSY FUEL RIGHT  23HAA     BFGA                 BFG           1
52    MANIFOLD ASSY FUEL LEFT   23HAB     BFGB                 BFG           1
52    VALVE FIREWALL SHUTOFF *2<46AAG     BFGC                 BFG           A
52    ACTUATOR FIREWALL SHUTOF  46AAH     BFGD                 BFG           A
52    COUPLING FUEL LINE        46AA7     BFGE                 BFG           1
52    LEVER THROTTLE            23NQA     BFGF                 BFG           1
52    STOP THROTTLE             23NQB     BFGG                 BFG           1
52    DRUM THROTTLE CABLE       23NQC     BFGH                 BFG           1
52    CABLE THROTTLE            23NQE     BFGK                 BFG           2
52    PULLEY THROTTLE CONTROL   23NQF     BFGL                 BFG           2
52    REGULATOR THROTTLE TENSION23NQH     BFGM                 BFG           2
52    SWITCH ENG FUEL SHUTOFF SW 49BPA    BFGN                 BFG           1
52   PRIMARY FUEL                         BFH                  BFG      BFM   01111110
52   NO 2 MAIN XFER AND SUPPLY            BFJ                  BFH      BFL   01101011
52   NO 2 MAIN XFER AND SUPPLY            BFJ                  BFH    K BFL   000A0A000
52   TANK MAIN WING INTEGRAL    46FAA     BFJA                 BFJ           1
52    PUMP BOOST  *4<           46AAA     BFJB                 BFJ           2
52    ACTUATOR BOOST PUMP *4<   46AAB     BFJC                 BFJ           2
52    RELAY BOOST PUMP  *4<     46AA2     BFJD                 BFJ           2
52    VALVE INWD ACT VENT FLOAT 46DAA     BFJE                 BFJ           1
52    TUBE TANK VENT            46DAT     BFJF                 BFJ           1
52    VALVE TK VENT DRAIN FLOAT 46DAU     BFJG                 BFJ           1
52    VALVE AIR BLEED FLOAT     46DAV     BFJH                 BFJ           1
52    VALVE FUEL LEVEL CONT | 2046BCC     BFJJ                 BFJ           A
52    SW PRESSURE GND CHECK     46AAN     BFJK                 BFJ           0
52   FUEL MANAGEMENT                      BFK                  BFJ            AAAAAAAA
52    FUEL FEED                           BFKA                 BFK            AAAAAAAA
52     SW FUEL  | 2             46AA3     BFKAA                BFKA          A
52    FUEL STATUS                         BFKB                 BFK            11111111
52     INDICATOR FUEL QTY       51BAB     BFKBA                BFKB          1
52    PROBE FUEL QTY *3<        51BAF     BFKBB                BFKB          3
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52   FUEL XFER                         BFKC             BFK                AAAAAAAA
52    SW FUEL MANAGEMENT  | 20 46BCN   BFKCA            BFKC         A
52  AUXILLIARY XFER AND SUPPLY         BFL              BFH      BFJ   00010100
52  AUXILLIARY XFER AND SUPPLY         BFL              BFH    K BFJ   0AA0A0AA0
52   VALVE AUX FEED | 14       46AEH   BFLA             BFL          A
52  CROSS-FEED                         BFM              BFG    K BFH   0AAAAAAA0
52  NO 1 MAIN SUPPLY AVAILABLE         BFMA             BFMAD          11111111
52   VALVE SHUTOFF XFEED  | 9  46AAP   BFMAA            BFMA         A
52   VALVE ENG XFEED MANIFOLD  46AAV   BFMAB            BFMA         A
52   ACTUATOR ENG XFEED VALVE  46AAW   BFMAC            BFMA         A
52  CROSS-FEED ATTEN                   BFMAD            BFM            11111111
52  NO 3 MAIN SUPPLY AVAILABLE         BFMB             BFMAD          11111111
52   VALVE SHUTOFF XFEED  | 11 46AAP   BFMBA            BFMB         A
52   VALVE ENG XFEED MANIFOLD  46AAV   BFMBB            BFMB         A
52   ACTUATOR ENG XFEED VALVE  46AAW   BFMBC            BFMB         A
52  NO 4 MAIN SUPPLY AVAILABLE         BFMC             BFMAD          11111111
52   VALVE SHUTOFF XFEED  | 12 46AAP   BFMCA            BFMC         A
52   VALVE ENG XFEED MANIFOLD  46AAV   BFMCB            BFMC         A
52   ACTUATOR ENG XFEED VALVE  46AAW   BFMCC            BFMC         A
52   VALVE SHUTOFF XFEED  | 10 46AAP   BFMX             BFM          A
52   VALVE ENG XFEED MANIFOLD  46AAV   BFMY             BFM          A
52   ACTUATOR ENG XFEED VALVE  46AAW   BFMZ             BFM          A
52  NO 3 NACELLE FUEL                  BFN              BG             0AAAAAAA0
52   MANIFOLD ASSY FUEL RIGHT  23HAA   BFNA             BFN          1
52   MANIFOLD ASSY FUEL LEFT   23HAB   BFNB             BFN          1
52   VALVE FIREWALL SHUTOFF %2<46AAG   BFNC             BFN          A
52   ACTUATOR FIREWALL SHUTOFF 46AAH   BFND             BFN          A
52   COUPLING FUEL LINE        46AAZ   BFNE             BFN          1
52   LEVER THROTTLE            23NQA   BFNF             BFN          1
52   STOP THROTTLE             23NQB   BFNG             BFN          1
52   DRUM THROTTLE CABLE       23NQC   BFNH             BFN          1
52   CABLE THROTTLE            23NQE   BFNK             BFN          2
52   PULLEY THROTTLE CONTROL   23NQF   BFNL             BFN          2
52   REGULATOR THROTTLE TENSION23NQH   BFNM             BFN          2
52  SWITCH ENG FUEL SHUTOFF SW 49BBA   BFNN             BFN          1
52  PRIMARY FUEL                       BFP              BFN      BFT   01111110
52  NO 3 MAIN XFER AND SUPPLY          BFQ              BFP      BFS   01101011O
52  NO 3 MAIN XFER AND SUPPLY          BFQ              BFP    K BFS   000A0A000
52  TANK MAIN WING INTEGRAL    46FAA   BFQA             BFQ          1
52   PUMP BOOST %4<            46AAA   BFQB             BFQ          2
52   ACTUATOR BOOST PUMP %4<   46AAB   BFQC             BFQ          2
52   RELAY BOOST PUMP %4<      46AA2   BFQD             BFQ          2
52   VALVE INWD ACT VENT FLOAT 46DAA   BFQE             BFQ          1
52   TUBE TANK VENT            46DAT   BFQF             BFQ          1
52   VALVE TK VENT DRAIN FLOAT 46DAU   BFQG             BFQ          1
52   VALVE AIR BLEED FLOAT     46EAV   BFQH             BFQ          1
52   SW PRESSURE GND CHECK     46AAN   BFQJ             BFQ          0
52   VALVE FUEL LEVEL CONT | 2146BCC   BFQK             BFQ          A
52  FUEL MANAGEMENT                    BFR              BFQ            AAAAAAAA
52   FUEL FEED                         BFRA             BFR            AAAAAAAA
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52    SW FUEL  | 3               46AA3     BFRAA                 BFRA           A
52   FUEL STATUS                           BFRB                  BFR                 111111111
52    INDICATOR FUEL QTY         51FAB     BFRBA                 BFRB           1
52    PROBE FUEL QTY   %3<       51FAF     BFRBB                 BFRB           1
52   FUEL XFER                             BFRC                  BFR                 AAAAAAAAA
52    SW FUEL MANAGEMENT         46ALK     BFRCA                 BFRC           A
52   AUXILLIARY XFER AND SUPPLY            BFS                   BFP       BFQ       000101000
52   AUXILLIARY XFER AND SUPPLY            BFS                   BFP     K BFQ       0AA0A0AA0
52    VALVE AUX FEED  | 15       46AFH     BFSA                  BFS            A
52   CROSS-FEED                            BFT                   BFN     K BFP       0AAAAAAA0
52   NO 1 MAIN SUPPLY AVAILABLE            BFTA                  BFTAD               111111111
52    VALVE SHUTOFF XFEED  |9    46AAP     BFTAA                 BFTA           A
52    VALVE ENG XFEED MANIFOLD   46AAV     BFTAB                 BFTA           A
52    ACTUATOR ENG XFEED VALVE   46AAW     BFTAC                 BFTA           A
52   CROSS-FEED ATTEN                      BFTAD                 BFT                 111111111
52   NO 2 MAIN SUPPLY AVAILABLE            BFTB                  BFTAD               111111111
52    VALVE SHUTOFF XFEED | 70   46AAP     BFTBA                 BFTB           A
52    VALVE ENG XFEED MANIFOLD   46AAV     BFTBB                 BFTB           A
52    ACTUATOR ENG XFEED VALVE   46AAW     BFTBC                 BFTB           A
52   NO 4 MAIN SUPPLY AVAILABLE            BFTC                  BFTAD               111111111
52    VALVE SHUTOFF XFEED  |12   46AAP     BFTCA                 BFTC           A
52    VALVE ENG XFEED MANIFOLD   46AAV     BFTCB                 BFTC           A
52    ACTUATOR ENG XFEED VALVE   46AAW     BFTCC                 BFTC           A
52    VALVE SHUTOFF XFEED  | 77 46AAP      BFTX                  BFT            A
52    VALVE ENG XFEED MANIFOLD   46AAV     BFTY                  BFT            A
52    ACTUATOR ENG XFEED VALVE   46AAW     BFTZ                  BFT            A
52   NO 4 NACELLE FUEL                     BFU                   BD                  0AAAAAAA0
52    MANIFOLD ASSY FUEL RIGHT   23HAA     BFUA                  BFU            1
52    MANIFOLD ASSY FUEL LEFT    23HAB     BFUB                  BFU            1
52    VALVE FIREWALL SHUTOFF %2<46AAG      BFUC                  BFU            A
52    ACTUATOR FIREWALL SHUTOFF 46AAH      BFUD                  BFU            A
52    COUPLING FUEL LINE         46AAZ     BFUE                  BFU            1
52    LEVER THROTTLE             23NQA     BFUF                  BFU            1
52    STOP THROTTLE              23NQB     BFUG                  BFU            1
52    DRUM THROTTLE CABLE        23NQC     BFUH                  BFU            1
52    CABLE THROTTLE             23NQE     BFUK                  BFU            2
52    PULLEY THROTTLE CONTROL    23NQF     BFUL                  BFU            2
52    REGULATOR THROTTLE TENSION23NQH      BFUM                  BFU            2
52   SWITCH ENG FUEL SHUTOFF SW 49BBA      BFUN                  BFU            1
52   PRIMARY FUEL                          BFV                   BFU       BFZ       011111110
52   NO 4 MAIN XFER AND SUPPLY             BFW                   BFV       BFY       000010110
52   NO 4 MAIN XFER AND SUPPLY             BFW                   BFV     K BFY       0AAA0A000
52   TANK MAIN WING INTEGRAL     46FAA     BFWA                  BFW            1
52    PUMP BOOST %4<             46AAA     BFWB                  BFW            2
52    VALVE INW ACT VENT FLOAT   46DAA     BFWC                  BFW            2
52    TUBE TANK VENT             46DAT     BFWD                  BFW            2
52    VALVE TK VENT DRAIN FLOAT 46DAU      BFWE                  BFW            1
52    VALVE AIR BLEED FLOAT      46DAV     BFWF                  BFW            1
52    VALVE FUEL LEVEL CONT |22 46BCC      BFWG                  BFW            5
52    SW PRESSURE GND CHECK      46AAN     BFWH                  BFW            0
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52    ACTUAOR BOOST PUMP %4<      46AAB    BFWJ              BFW          2
52    RELAY BOOST PUMP %4<        46AA2    BFWK              BFW          2
52   FUEL MANAGEMENT                       BFX               BFW            AAAAAAAAA
52    FUEL FEED                            BFXA              BFX            AAAAAAAAA
52    SW FUEL NO 4                46AA3    BFXAA             BFXA         A
52   FUEL STATUS                           BFXB              BFX            111111111
52    INDICATOR FUEL QTY          51BAB    BFXBA             BFXB         1
52    PROBE FUEL QTY %6<          51BAF    BFXBB             BFXB         1
52    COMPENSATOR FUEL INDICATOR51BAH      BFXBC             BFXB         1
52   FUEL XFER                             BFXC              BFX            AAAAAAAAA
52    SW FUEL MANAGEMENT  | 22   46BCN    BFXCA             BFXC         A
52   MAIN BOOST PWR ATTENUATION            BFXY              BFC            111111111
52   MAIN BOOST PWR ATTENUATION            BFXY              BFJ           F111111111
52   MAIN BOOST PWR ATTENUATION            BFXY              BFQ           F111111111
52   MAIN BOOST PWR ATTENUATION            BFXY              BFW           F111111111
52   AUXILLIARY XFER AND SUPPLY            BFY               BFV     BFW    011101000
52   AUXILLIARY XFER AND SUPPLY            BFY               BFV   K BFW    0000A0AA0
52   CROSS-FEED                            BFZ               BFU   K BFV    0AAAAAAA0
52   NO 1 MAIN SUPPLY AVAILABLE            BFZA              BFZAD          111111111
52    VALVE SHUTOFF XFEED  | 9   46AAP    BFZAA             BFZA         A
52    VALVE ENG XFEED MANIFOLD   46AAV    BFZAB             BFZA         A
52    ACTUATOR ENG XFEED VALVE   46AAW    BFZAC             BFZA         A
52   CROSS-FEED ATTEN                      BFZAD             BFZ            111111111
52   NO 2 MAIN SUPPLY AVAILABLE            BFZB              BFZAD          111111111
52    VALVE SHUTOFF XFEED  | 10 46AAP     BFZBA             BFZB         A
52    VALVE ENG XFEED MANIFOLD   46AAV    BFZBB             BFZB         A
52    ACTUATOR ENG XFEED VALVE   46AAW    BFZBC             BFZB         A
52   NO 3 MAIN SUPPLY AVAILABLE            BFZC              BFZAD          111111111
52    VALVE SHUTOFF XFEED  | 11 46AAP     BFZCA             BFZC         A
52    VALVE ENG XFEED MANIFOLD   46AAV    BFZCB             BFZC         A
52    ACTUATOR ENG XFEED VALVE   46AAW    BFZCC             BFZC         A
52    VALVE SHUTOFF XFEED  | 12 46AAP     BFZX              BFZ          A
52    VALVE ENG XFEED MANIFOLD   46AAV    BFZY              BFZ          A
52    ACTUATOR ENG XFEED VALVE   46AAW    BFZZ              BFZ          A
52   LEFT AUX XFER AND SUPPLY              BLA               BFE     BSR    111111111
52   LEFT AUX XFER AND SUPPLY              BLA               BFL     BSR    111111111
52   LEFT AUX XFER AND SUPPLY              BLA               BSL            111111111
52    FLASHER FUEL FLOW           46ABL    BLAX              BLA          1
52   LEFT EXT TANK SUPPLY                  BLB               BLA            000001000
52    TANK EXT FUEL               46FEA    BLBA              BLB          1
52    PUMP BOOST                  46ABA    BLBB              BLB          A
52    ACTUATOR BOOST PUMP         46ABB    BLBC              BLB          A
52    RELAY PUMP AND LEVEL CONT 46ABJ     BLBD              BLB          A
52    SW BOOST PUMP PRES CHECK   46ABM    BLBE              BLB          0
52    VALVE B-PUMP PRES CHK SOL 46ABN     BLBF              BLB          0
52    VALVE BOOST PUMP PRES CHK 46ABP     BLBH              BLB          0
52    VALVE FUEL LEVEL CONT | 1746BCC     BLBJ              BLB          A
52   FUEL MANAGEMENT                       BLC               BLB            AAAAAAAAA
52    FUEL FEED                            BLCA              BLC            AAAAAAAAA
52     SW FUEL MANAGEMENT  | 17 46BCN     BLCAA             BLCA         A
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52    FUEL STATUS                      BLCB            BLC              111111111
52      INDICATOR FUEL QTY       51BAB BLCBA           BLCB        1
52      INDICATOR FUEL FLOW      46BCP BLCBB           BLCB        1
52    PROBE FUEL QTY %3<         51BAF BLCBC           BLCB        3
52    FUEL XFER                        BLCC            BLC              AAAAAAAAA
52      SW FUEL MANAGEMENT  | 17 46BCN BLCCA           BLCC        A
52   LEFT OUTBOARD TANK SUPPLY         BLD             BLA              000002000
52    TANK OUTBRD WING INTEGRAL 46FBA  BLDA            BLD         1
52    PUMP BOOST %2<             46ABA BLDB            BLD         5
52    ACTUATOR BOOST PUMP %2<    46ABB BLDC            BLD         5
52    RELAY BOOST PUMP CONTROL   46ABJ BLDD            BLD         5
52    SW BOOST PUMP PRES CHECK   46ABM BLDE            BLD         0
52    VALVE B-PUMP PRES CHECK    46ABP BLDF            BLD         0
52    VALVE FUEL LEVEL CONT | 1846BCC  BLDG            BLD         5
52    VALVE INWD ACT VENT FLOAT 46DBA  BLDH            BLD         1
52    SCOOP RAM AIR              46DBR BLDJ            BLD         0
52    TANK WING SURGE            46DBS BLDK            BLD         1
52    VALVE TANK VENT FLOAT      46DBV BLDL            BLD         1
52    VALVE TANK AIR BLEED FLOAT46DBW  BLDM            BLD         1
52    VALVE NEG PRES RELIEF      46DBY BLDN            BLD         1
52   FUEL MANAGEMENT                   BLE             BLD              AAAAAAAAA
52    FUEL FEED                        BLEA            BLE              AAAAAAAAA
52      SW FUEL MANAGEMENT  | 18 46BCN BLEAA           BLEA        A
52    FUEL STATUS                      BLEB            BLE              111111111
52      INDICATOR FUEL QTY       51BAF BLEBA           BLEB        1
52      INDICATOR FUEL FLOW      46BCP BLEBB           BLEB        1
52    PROBE FUEL QTY %6<         51BAF BLEBC           BLEB        1
52    COMPENSATOR FUEL INDICATOR51BAH  BLEBD           BLEB        1
52    FUEL XFER                        BLEC            BLE              AAAAAAAAA
52      SW FUEL MANAGEMENT  | 18 46BCN BLECA           BLEC        A
52   AFT BODY TANK SUPPLY              BLF             BLA              077700000
52    CELL BODY TANK             46FDA BLFA            BLF         1
52    PUMP BOOST %3<             46ABA BLFB            BLF         3
52    ACTUATOR BOOST PUMP %3<    46ABB BLFC            BLF         3
52    RELAY BOOST PUMP CONTROL   46ABJ BLFD            BLF         3
52    SW BOOST PUMP PRES CHECK   46ABM BLFE            BLF         0
52    VALVE BOOST PUMP PRES CHK 46ABN  BLFF            BLF         0
52    VALVE BOOST PUMP CHECKOUT 46ABP  BLFG            BLF         0
52    VALVE FUEL LEVEL CONT | 2846BBC  BLFH            BLF         5
52    VALVE INWD ACT FLOAT VENT 46DDA  BLFJ            BLF         1
52    MANIFOLD VENT              46DDJ BLFK            BLF         1
52    TANK SURGE                 46DDK BLFL            BLF         1
52    RELAY REFUEL CHECKOUT      46BBU BLFN            BLF         0
52   FUEL MANAGEMENT                   BLG             BLF              AAAAAAAAA
52    FUEL FEED                        BLGA            BLG              AAAAAAAAA
52      SW FUEL MANAGEMENT  | 28 46BBR BLGAA           BLGA        A
52   FUEL STATUS                       BLGB            BLG              111111111
52    INDICATOR FUEL QTY         51BAB BLGBA           BLGB        1
52    INDICATOR FUEL FLOW        46BBT BLGBB           BLGB        1
52    INDICATOR REFUEL VALVE POS46BBS  BLGBC           BLGB        1
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52   PROBE FUEL QTY %3<          51BAF   BLGBD          BLGB          1
52  FUEL XFER                            BLGC           BLG             AAAAAAAAA
52   SW FUEL MANAGEMENT  | 28   46EFR   BLGCA          BLGC          A
52  FUEL STATUS PWR ATTEN                BLXX           BFDB           FAAAAAAAAA
52  FUEL STATUS PWR ATTEN                BLXX           BFKB           FAAAAAAAAA
52  FUEL STATUS PWR ATTEN                BLXX           BFRB           FAAAAAAAAA
52  FUEL STATUS PWR ATTEN                BLXX           BFXB           FAAAAAAAAA
52  FUEL STATUS PWR ATTEN                BLXX           BLA             077712000
52  FUEL QUAN TOTALIZER IND     51BAA   BQTA           BLCB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTB           BLEB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTC           BLGB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTD           BFDB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTE           BFKB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTF           BFRB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTG           BFXB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTH           BRCB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTJ           BREB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTK           BRGB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTL           BRJB          1
52  FUEL QUAN TOTALIZER IND     51BAA   BQTM           BRLB          1
52  AIR REFUEL                           BQV            BQVAAA          000001000
52  AIR RECEPTACLE SYSTEM                BQVA           BQV             AAAAAAAAA
52   AIR RECEPTACLE ASSY        46GAA   BQVAA          BQVA          A
52  AIR REFUEL ATTEN                     BQVAAA         B               111111111
52   VALVE SLIDING              46GAB   BQVAB          BQVA          A
52   SEAL SLIDING VALVE         46GAC   BQVAC          BQVA          A
52   VALVE ACTUATOR             46GAD   BQVAD          BQVA          A
52   COIL INDUCTION             46GAH   BQVAE          BQVA          A
52  SLIPWAY DOOR SYSTEM                  BQVB           BQV             AAAAAAAAA
52   DOOR ASSY                  46GBA   BQVBA          BQVB          A
52   LINKAGE DOOR ACTUATING     46GBD   BQVBB          BQVB          A
52   LINE SLIPWAY DRAIN         46GBK   BQVBD          BQVB          A
52  AIR REFUEL HYDRAULIC SYSTEM          BQVC           BQV             AAAAAAAAA
52   ACTUATOR SLIPWAY DOOR      46GCA   BQVCA          BQVC          A
52   VALVE DOOR NORM CONTROL    46GCB   BQVCB          BQVC          5
52   VALVE DOOR ALT CONTROL     46GCC   BQVCC          BQVC          5
52   FUSE HYDRAULIC             46GCD   BQVCD          BQVC          A
52   ACTUATOR RECEPTACLE TOGGLE46GCE    BQVCE          BQVC          1
52   VALVE TOGGLE CONTROL       46GCF   BQVCF          BQVC          A
52   VALVE TOGGLE SHUTTLE       46GCG   BQVCG          BQVC          A
52   VALVE DUAL SHUTTLE         46GCH   BQVCH          BQVC          A
52   ACCUMULATOR HYDRAULICS     46GCJ   BQVCJ          BQVC          A
52  MANIFOLD SYSTEM                      BQVD           BQV             AAAAAAAAA
52   RECEPTACLE SINGLE POINT    46BAB   BQVDA          BQVD          1
52   VALVE MAIN REFUEL SHUTOFF  46BAC   BQVDB          BQVD          A
52   ACTUATOR M SHUTOFF VALVE   46BAD   BQVDC          BQVD          A
52  FUEL MANAGEMENT -AIR REFUEL          BQVE           BQV             AAAAAAAAA
52   AIR REFUEL ELECTRICAL      46GDO   BQVEA          BQVE          8
52    AMPLIFIER SIGNAL          46GDA   BQVEB          BQVE          1
52    REFUEL PANEL INSTALLATION46BEC   BQVEC          BQVE          8
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52	PANEL REFUEL	46FEA	BQVED	BQVE	B		
52	SW MASTER REFUEL	46FEB	BQVEE	BQVE	A		
52	FUEL SCAVENGE		BQX	BQV4AA			000001000
52	PUMP SCAVENGE	46EAA	BQXA	BQX	A		
52	VALVE CHECK	45EAB	BQXB	BQX	A		
52	VALVE SHUTOFF	46EAD	BQXC	BQX	A		
52	SWITCH	46EAE	BQXD	BQX	A		
52	GROUND REFUEL		BQY	B			000000000
52	VALVE REFUEL | 30	46FEJ	BQYA	BQY	A		
52	VALVE THERMAL VAC ARM REL	46EFK	BQYB	BQY			
52	MISSILE FUEL REPLENISH		BQZ	BQ			AAAAAAAAA
52	VALVE ASM SHUTOFF	46ZAX	BQZA	BQZ	A		
52	ACTUATOR ASM SHUTOFF VALVE	46ZAY	BQZB	BQZ	A		
52	MANIFOLD VENT %ADM-20<	46EFA	BQZC	BQZ	1		
52	FITTING VENT DISC%ADM-20<	46DEP	BQZD	BQZ	1		
52	RIGHT AUX XFER AND SUPPLY		BRA	BFS		BSL	111111111
52	RIGHT AUX XFER AND SUPPLY		BRA	BFY		BSL	111111111
52	RIGHT AUX XFER AND SUPPLY		BRA	BSP			111111111
52	FLASHER FUEL FLOW	46AFL	BRAA	BFA		1	
52	RIGHT EXT TANK SUPPLY		BRB	BRA			000001000
52	TANK EXT FUEL	45FEA	BRBA	BRB		1	
52	PUMP BOOST	46ABA	BRBB	BRB		A	
52	ACTUATOR BOOST PUMP	46ABB	BRBC	BRB		A	
52	RELAY BOOST PUMP CONTROL	46ABJ	BRBD	BRB		A	
52	SW BOOST PUMP PRES CHECK	46AEM	BRBE	BRB		J	
52	VALVE FUEL LEVEL CONT | 2446BCC		BRBF	BRB		A	
52	VALVE BOOST PUMP PRES CHK	46AEP	BRBH	BRB		C	
52	VALVE B-PUMP PRES CKK SOL	46AFN	BRBJ	BRB		J	
52	FUEL MANAGEMENT		BRC	BRB			AAAAAAAAA
52	FUEL FEED		BRCA	BRC			AAAAAAAAA
52	SW FUEL MANAGEMENT | 24	46RCN	BRCAA	BRCA		A	
52	FUEL STATUS		BRCB	BRC			111111111
52	INDICATOR FUEL QTY	51BAB	BRCBA	BRCB		1	
52	INDICATOR FUEL FLOW	46BCP	BRCBB	BRCB		1	
52	PROBE FUEL QTY %3<	51EAF	BRCBC	BRCB		1	
52	FUEL XFER		BRCC	BRC			AAAAAAAAA
52	SW FUEL MANAGEMENT | 24	46RCN	BRCCA	BRCC		A	
52	RIGHT OUTBOARD TANK SUPPLY		BRD	BRA			000002000
52	TANK OUTBRD WING INTEGRAL	46FFA	BRDA	BRD		1	
52	PUMP BOOST #2<	46AFA	BRDB	BRD		5	
52	ACTUATOR BOOST PUMP %2<	46ABB	BRDC	BRD		5	
52	RELAY BOOST PUMP CONT	46ABJ	BRDD	BRD		5	
52	VALVE FUEL LEVEL CONT | 2346BCC		BRDE	BRD		5	
52	VALVE INW ACT VENT FLOAT	46DEA	BRDF	BRD		1	
52	SCOOP RAM AIR	46DER	BRDG	BRD		C	
52	TANK WIN SURGE	46DRS	BRDH	BRD		1	
52	VALVE TK VENT FLOAT	46DRV	BRDJ	BRD		1	
52	VALVE TK AIR BLEED FLOAT	46DRW	BRDK	BRD		1	
52	VALVE NEG PRES RELIEF	46DFY	BRDL	BRD		1	
52	SW BOOST PUMP PRES CHECK	46AEM	BRDM	BRA		J	

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52    VALVE BOOST PUMP PRES CHK 46ABP   BRDQ          BRA         0
52  FUEL MANAGEMENT                     BRE           BRD           AAAAAAAAA
52    FUEL FEED                         BREA          BRE           AAAAAAAAA
52      SW FUEL MANAGEMENT | 25  46ECN  BREAA         BREA        A
52  FUEL STATUS                         BREB          BRE           111111111
52    INDICATOR FUEL QTY        51BAB   BREBA         BREB        1
52    INDICATOR FUEL FLOW       46BCP   BREBB         BREB        1
52    PROBE FUEL QTY %6<        51BAF   BREBC         BREB        1
52    COMPENSATOR FUEL INDICATER51BAH   BREBD         BREB        1
52  FUEL XFER                           BREC          BRE           AAAAAAAAA
52  SW FUEL MANAGEMENT 1 25     46ABK   BRECA         BREC        A
52  CENTER WING TANK SUPPLY             BRF           BRA           022000000
52    TANK CENTER WING INTEGRAL 46FCA   BRFA          BRF         1
52    PUMP BOOST %2<            46ABA   BRFB          BRF         5
52    ACTUATOR BOOST PUMP       46ABB   BRFC          BRF         5
52    RELAY BOOST PUMP CONT     46ABJ   BRFD          BRF         5
52    VALVE FUEL LEVEL CONT | 2646BCC   BRFE          BRF         A
52    VALVE B-PUMP PRES CHK SOL 46ABN   BRFF          BRF         0
52    VALVE B-PUMP PRES CHECKOUT46ABP   BRFG          BRF         0
52    SW BOOST PUMP PRES CHECK  46ABM   BRFH          BRF         0
52  FUEL MANAGEMENT                     BRG           BRF           AAAAAAAAA
52    FUEL FEED                         BRGA          BRG           AAAAAAAAA
52      SW FUEL MANAGEMENT | 26  46ECN  BRGAA         BRGA        A
52    FUEL STATUS                       BRGB          BRG           111111111
52      INDICATOR FUEL QTY      51BAB   BRGBA         BRGB        1
52      INDICATOR FUEL FLOW     46BBT   BRGBB         BRGB        1
52    PROBE FUEL QTY %2<        51BAF   BRGBC         BRGB        1
52    FUEL XFER                         BRGC          BRG           AAAAAAAAA
52  SW FUEL MANAGEMENT 1 26     46ABK   BRGCA         BRGC        A
52  MID BODY TANK SUPPLY                BRH           BRA           000400000
52    CELL BODY TANK            46FDA   BRHA          BRH         1
52    PUMP BOOST                46ABA   BRHB          BRH         3
52    ACTUATOR BOOST PUMP       46ABB   BRHC          BRH         3
52    RELAY BOOST PUMP CONT     46ABJ   BRHD          BRH         3
52    VALVE FUEL LEVEL CONT | 2746BBC   BRHE          BRH         A
52    VALVE INW ACT VENT FLOAT  46DDA   BRHF          BRH         1
52    MANIFOLD VENT             46DDJ   BRHG          BRH         1
52    TANK SURGE                46DDK   BRHH          BRH         1
52    VALVE B-PUMP PRES CK SOL  46ABN   BRHJ          BRH         0
52    VALVE B-PUMP PRES CHECKOUT46ABP   BRHK          BRH         0
52    SW BOOST PUMP PRES CHECK  46ABM   BRHL          BRH         0
52    RELAY REFUEL CHECKOUT     46BBU   BRHN          BRH         1
52  FUEL MANAGEMENT                     BRJ           BRH           AAAAAAAAA
52    FUEL FEED                         BRJA          BRJ           AAAAAAAAA
52      SW FUEL MANAGEMENT | 27  46EBR  BRJAA         BRJA        A
52  FUEL STATUS                         BRJB          BRJ           111111111
52    INDICATOR FUEL QTY        51BAB   BRJBA         BRJB        1
52    INDICATOR FUEL FLOW       46BBT   BRJBB         BRJB        1
52    INDICATOR REFUEL VALVE POS46BBS   BRJBC         BRJB        1
52    PROBE FUEL QTY %3<        51BAF   BRJBD         BRJB        1
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52  FUEL XFER                          BRJC                BRJ                AAAAAAAAA
52   SW FUEL MANAGEMENT | 27   46BBR   BRJCA               BRJC           A   -
52  FORWARD BODY TANK SUPPLY           BRK                 BRA                002000000
52   CELL BODY TANK            46FDA   BRKA                BRK            1
52   PUMP BOOST %2<            46ABA   BRKB                BRK            5
52   ACTUATOR BOOST PUMP %2<   46AEB   BRKC                BRK            5
52   RELAY BOOST PUMP CONTROL  46AEJ   BRKD                BRK            5
52   VALVE FUEL LEVEL CONT | 2546BBC   BRKE                BRK            A
52   VALVE INW ACT VENT FLOAT  46DDA   BRKF                BRK            1
52   MANIFOLD VENT             46DDJ   BRKG                BRK            1
52   TANK SURGE                46DDK   BRKH                BRK            1
52   VALVE BOOST PRES  CK SOL  46AEN   BRKJ                BRK            0
52   VALVE BOOST PRES CHECKOUT 46AEP   BRKK                BRK            0
52   RELAY REFUEL CHECKOUT     46EBU   BRKM                BRK            1
52   SW  BOOST PUMP PRES CHECK 46AEM   BRKN                BRK            0
52  FUEL MANAGEMENT                    BRL                 BRK                AAAAAAAAA
52   FUEL FEED                         BRLA                BRL                AAAAAAAAA
52    SW FUEL MANAGEMENT | 25  46BBF   BRLAA               BRLA           A
52  FUEL STATUS                        BRLB                BRL                111111111
52   INDICATOR FUEL QTY        51BAB   BRLBA               BRLB           1
52   INDICATOR FUEL FLOW       46BBT   BRLBB               BRLB           1
52   INDICATOR REFUEL VALVE POS46BBS   BRLBC               BRLB           1
52   PROBE FUEL QTY            51BAF   BRLBD               BRLB           1
52  FUEL XFER                          BRLC                BRL                AAAAAAAAA
52   SW FUEL MANAGEMENT | 25   46BBR   BRLCA               BRLC           A
52  LEFT AUX SEPARATION                BSL                 BFS     K BRA      AAAAAAAAA
52  LEFT AUX SEPARATION                BSL                 BFY     K BRA      AAAAAAAAA
52   VALVE MAIN MANIFOLD  | 29 46BEH   BSLA                BSL            5
52  RIGHT AUX SEPARATION               BSR                 BFF     K BLA      AAAAAAAAA
52  RIGHT AUX SEPARATION               BSR                 BFL     K BLA      AAAAAAAAA
52   VALVE MAIN MANIFOLD  | 29 46BEH   BSRA                BSR            5
52 FUEL WARNING                        BWA                 BLA                111111111
52  FUEL WARNING                       BWA                 BRA                111111111
52G  CONTROL M-CAUTION LIGHT   49DCA   BWAA                BWA            1
52G  CONTROLLER MAG CTN LIGHT  49DDC   BWAB                BWA            1
52G  LIGHT CBK OPEN            49DCE   BWAC                BWA            1
52H  CONTROLLER MASTER         49DEA   BWAD                BWA            1
52H  CONTROLLER MAG CONTACTOR  49DEF   BWAE                BWA            1
52H  RELAY CENTRAL CAUTION     49DEG   BWAF                BWA            1
52H  PANEL CENTRAL CAUTION     49DEH   BWAG                BWA            1
52  WARN LIGHT TEST SWITCH     44BAB   BWAH                BWA            1
52  MAIN TANK LOW                      BWB                 BWA                111111111
52   INDICATOR FUEL QTY        51BAB   BWBA                BWB            1
52G  LIGHT MASTER CAUTION      49DDD   BWBB                BWB            1
52H  INDICATOR CENTRAL CAUTION 49DEJ   BWBC                BWB            1
52  WING TANK RESET                    BWC                 BWA                111111111
52   INDICATOR FUEL QTY        51BAB   BWCA                BWC            1
52G  LIGHT MASTER CAUTION      49DDD   BWCB                BWC            1
52H  INDICATOR CENTRAL CAUTION 49DEJ   BWCC                BWC            1
52  FUEL IN CABIN MANIFOLD             BWD                 BQX                111111111
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52G  LIGHT MASTER CAUTION          49EDD   BWDA          BWD          1
52H  INDICATOR MASTER CAUTION      49EEJ   BWDB          BWD          1
52   FUEL IN MAIN MANIFOLD                 BWE           BQX            111111111
52G  LIGHT MASTER CAUTION          49EDD   BWEA          BWE          1
52H  INDICATOR MASTER CAUTION      49EEJ   BWEB          BWE          1
52   COMM/NAV/IDENT                        C                            AAAAAAAAA
52   COMMUNICATION                         CA            C              011111120
52   AIR TO GND/AIR COMM.                  CAA           CA             111111111
52   INTERNAL CREW COMM.                   CAB           CA             000000000
52   STATION TO STATION COMM.              CAC           CAB            FAAAAAAAAA
52   STATION TO STATION COMM.              CAC           CAZZ           AAAAAAAAA
52G  PANEL C-823%<,CONTROL 2EA  64EAA   CACAA         CAC          0
52G  PANEL C-824%<,CONTROL 9EA  64AAB   CACAB         CAC          1
52G  AUDIO AMPLIFIER AM4761 11EA64AAD   CACAD         CAC          1
52G  PANEL C-826,CONTROL   8EA  64AAE   CACAE         CAC          1
52G  SWITCH,CONTROL WHEEL  2EA  64AAF   CACAF         CAC          1
52G  FOOT SWITCH,MICROPHONE 4EA 64AAG   CACAG         CAC          0
52G  RECEPTICAL GROUNT INTER.   64AAM   CACAM         CAC          0
52G  JUNCTION BOX               64AAN   CACAN         CAC          1
52G  GROUND CORD                64AAR   CACAR         CAC          0
52H  PANEL,CONTROL C-2105 2EA   64BAA   CACBA         CAC          0
52H  PANEL,CONTROL C-2106 1DEA  64BAB   CACBB         CAC          1
52H  AMP. ASSY,AM-1964%HEAD<12EA64BAC   CACBC         CAC          1
52H  AMP. ASSY,AM-1965%MICR<12EA64BAL   CACBD         CAC          1
52H  PANEL,CONTROL C-2323 9EA   64BAE   CACBE         CAC          1
52H  SWITCH,CONTROL WHEEL 2EA   64BAF   CACBF         CAC          1
52H  FOOT SWITCH,MICROPHONE 4EA 64BAG   CACBG         CAC          0
52H  JUNCTION BOX               64BAJ   CACBJ         CAC          1
52H  GROUND CORD                64BAM   CACBM         CAC          0
52   H.F. COMM. %ARC-58<                   CAH           CAZZ           111111111
52   H.F. TRANSMIT                         CAHA          CAH            222222222
52   T-ANSM&TTE-,T-605          61BBU   CAHAA         CAHA         A
52   MOUNT TRANSMITTER          61BBV   CAHAB         CAHA         0
52   COOLER,ELECTRONIC EQUIP    61BB3   CAHAC         CAHA         A
52   H.F. RECEIVE                       CAHB          CAH            888888888
52   RCEIVER,R-%<               61BBA   CAHBA         CAHB         A
52   RECEIVER,SUB. MAIN CHASSIS 61BBR   CAHBB         CAHB         A
52   RECEIVER SUB. FRONT PANEL  61BBS   CAHBC         CAHB         3
52   PRESSURIZATION                     CAHC          CAHA           AAAAAAAAA
52   COMPRESSOR,AIR RGB   61BCB 61BCA   CAHCA         CAHC         A
52   COMPRESSOR,AIR CORNL 61BCA 61BCB   CAHCB         CAHC         A
52   MOUNTING BASE AIR COMPRESS 61BCC   CAHCC         CAHC         1
52   BLOWER,GROUND COOLING      61BCF   CAHCF         CAHC         0
52   SCOOP,RAM AIR              61BCH   CAHCH         CAHC         1
52   ANTENA,ARC-58 FIN TIP      61BAC   CAHFA         CAH          1
52   COUPLER,ANTENNA            61BAF   CAHFB         CAH          A
52   MOUNT,ANTENA COUPLER       61BAG   CAHFC         CAH          1
52   CONTROL,ANTENA COUPLER     61BAJ   CAHFD         CAH          A
52   AMPLIFIER,ELECTRONIC CONTR 61BAK   CAHFE         CAH          A
52   RELAY ASSEMBLY             61BAL   CAHFF         CAH          A
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52  ANTENA COUPLER CONTR SUB    61BAM   CAHFG          CAH          A
52  MOUNT,ANTENNA COUP CONTR    61BAN   CAHFH          CAH          1
52  ANTENA LONG WIRE            9961X   CAHFJ          CAH          1
52  AMPLIFIER,AM-1522/URC       61BBC   CAHGA          CAH          A
52  AMPLIFIER,AM-1523/URC       61BBD   CAHGB          CAH          A
52  AMPLIFIER,AM-1524/URC       61BBE   CAHGC          CAH          A
52  AMPLIFIER,AM-1526/URC       61BBF   CAHGD          CAH          A
52  AMPLIFIER,AM-1527/URC       61BBG   CAHGE          CAH          A
52  AMPLIFIER,AM-1528/URC       61BBH   CAHGF          CAH          A
52  AMPLIFIER,AM-1529/URC       61BBJ   CAHGG          CAH          A
52  AMPLIFIER,AM-1579/URC       61BBK   CAHGH          CAH          A
52  MIXER-OCILLATOR,CV-465      61BBL   CAHGJ          CAH          A
52  FREQUENCY DIVIDER CV-466    61BBM   CAHGK          CAH          A
52  MODULATOR,MD-286            61BBN   CAHGL          CAH          A
52  POWER SUPPLY-PP-1574        61BBP   CAHGM          CAH          A
52  GENERATOR SG&179 REF SIGNAL 61BBQ   CAHGN          CAH          A
52  AMPLIFIER,AM-1734/URC       61BBT   CAHGP          CAH          A
52  AMPLIFIER,AM-1525/URC       61BBW   CAHGQ          CAH          A
52  AMPLIFIER,RF                61BBY   CAHGR          CAH          A
52  TERMINAL BLOCK              61BBZ   CAHGS          CAH          1
52  JUNCTION BOX                61BDA   CAHGT          CAH          1
52  CONTROL,C-1939              61BEA   CAHGU          CAH          A
52  U.H.F. COMMUNICATIONS               CAU            CAZZ                 111111111
52  COMMAND RX/TX %ARC-34<      63AAC   CAUA           CAU       CAUB       111111111
52  RECEIVER-TRANSMIT.INSTALL.  63AAC   CAUAA          CAUA         A
52  CONTROL, RADIO SET G&1057%< 63BBA   CAUAB          CAUA         A
52  DYNAMOTOR,DY-103            63BCA   CAUAC          CAUA         A
52  POWER SUPPLY,PP-3086        63BCB   CAUAD          CAUA         A
52  POWER SUPPLY,PP-1990        63BCC   CAUAE          CAUA         A
52  ANTENNA                     63BDA   CAUAF          CAUA         A
52  FILTER                      63BDB   CAUAG          CAUA         4
52  AUX.COMMANT RX/TX %ARC-34<          CAUB           CAU       K CAUA     AAAAAAAAA
52  RECIEVER-TRANSMITT.INSTAL.  63CAC   CAUBA          CAUB         A
52  CONTROL,RADIO SET C-1057    63CBA   CAUBB          CAUB         A
52  DYNAMOTOR,DY-103            63CCA   CAUBC          CAUB         A
52  POWER SUPPLY,PP-3086        63CCB   CAUBD          CAUB         A
52  POWER SUPPLY PP-1990        63CCC   CAUBE          CAUB         A
52  ANTENNA                     63CDA   CAUBF          CAUB         A
52  FILTER                      63CDB   CAUBG          CAUB         4
52  V.H.F. COMMUNICATIONS               CAV            CAZZ                 111111111
52  V.H.F RECEIVE               71AAA   CAVA           CAV                  222222222
52  RECEIVER,ARN-14             71AAA   CAVAA          CAVA         A
52  MOUNT,ARN-14 RECEIVER       71AAB   CAVAB          CAVA         3
52  DYNAMOTOR                   71AAC   CAVAC          CAVA         A
52  ANTENA                      71AAD   CAVAD          CAVA         A
52  PANEL,CONTROL               71AAG   CAVAG          CAVA         A
52  POWER SUPPLY                71AAH   CAVAH          CAVA         A
52  REDUNDANCY ATTENUATION              CAZZ           CAA                  111111111
52  NAVIGATION                          CB             C         E          DC1222240
52  STEERING SOLUTIONS                  CBA            CB                   C0888880
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52  DEAD RECKONING                            CBB             CB      K CBA   00AAAAAA0
52  HEADING                                   CBBA            CBB             AAAAAAAAA
52  COMPASS, MAGNETIC STBY        51ADA       CBBAA           CBBA          A
52  TIME                                      CBBB            CBB             000000000
52  CLOCK  3EACH                  51AEA       CBBBA           CBBB          1
52  PRESENT POSITION                          CBBC            CBB             000111000
52  SEXTANT,PERISCOPIC            51AKA       CBBCA           CBBC          A
52  BUBBLE UNIT                   51AKC       CBBCC           CBBC          5
52  AVERAGER ASSEMBLY             51AKD       CBBCD           CBBC          5
52  SHUTTER ASSY,SEXTANT MOUNT 51AKE          CBBCE           CBBC          A
52  RECEPTICAL ASSY,SEXT.MOUNT 51AKF          CBBCF           CBBC          5
52  ENROUTE DISPLAYS                          CBC             CBA             001111100
52  HEADING INFORMATION                       CBD             CBDX            222222222
52  HSI                                       CBDA            CBD             111111111
52  INDICATOR,HORIZ. SITUA.2EA 71AFJ          CBDAA           CBDA          1
52  RADAR                                     CBDB            CBD             111111111
52  INDICATOR AZIMUTH AND RANGE73CJP          CBDBB           CBDB          1
52  COMPARITOR,TOPOGRAPHICAL      73CJA       CBDBC           CBDB          1
52  GYRO                                      CBDC            CBD             111111111
52  INDICATOR DIREC. GYRO         51AMB       CBDCA           CBDC          A
52  ADAPTER POWER                 51AMD       CBDCB           CBDC          A
52  MAG STBY COMPASS                          CBDD            CBD             111111111
52  COMPASS,MAGNETIC STANDBY      51ALA       CBDDA           CBDD          A
52G COMPASS                                   CBDE            CBD             111111111
52G INDICATOR MASTER              73FAG       CBDEA           CBDE          A
52  PRECEISE%TRUE< HEADING                    CBDF            CBD             111111111
52G INDICATOR TRUE HEADING        73FBF       CBDFA           CBDF          A
52H INDICATOR PRECISE             73FCS       CBDFB           CBDF          A
52  BNS                                       CBDG            CBD             111111111
52  INDICATOR,BOMBING DATA        73CCF       CBDGA           CBDG          1
52  INDICATOR,FLIGHT COMMAND      73CCK       CBDGB           CBDG          1
52  HEADING ATTENUATION                       CBDX            CBC             111111111
52  BEARING INFORMATION                       CBE             CBC             222222222
52  HSI                                       CBEA            CBE             111111111
52  INDICATOR,HORIZ.SIDUA. 2EA 71AFJ          CBEAA           CBEA          1
52  RADAR                                     CBEB            CBE             111111111
52  INDICATOR AZIMUTH AND RANGE73CJP          CBEBB           CBEB          1
52  COMPARITOR,TOPOGRAPHICAL      73CJA       CBEBC           CBEB          1
52  DRIFT ANGLE                               CBF             CBC             000000000
52  INDICATOR, DRIFT ANGLE        73DAF       CBFA            CBF           A
52  RANGE INFORMATION                         CBG             CBC             111111111
52  HSI                                       CBGA            CBG             111111111
52  INDICATOR,HORIZ.SIDU. 2EA  71AFJ          CBGAA           CBGA          1
52  RADAR                                     CBGB            CBG             111111111
52  INDICATOR AZIMUTH AND RANGE73CJP          CBGBB           CBGB          1
52  COMPARITOR,TOPOGRAPHICAL      73CJA       CBGBC           CBGB          1
52  INTEGRATED STEERING                       CBH             CN              111111111
52  BOMB/NAV COMPUTATION                      CBHA            CBH             AAAAAAAAA
52  BOMB/NAV COMPUTATION                      CBHA            CBHB           F888888888
52  BOMB/NAV COMPUTATION                      CBHA            CBHC           F222222222
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AD-A054 491 ARINC RESEARCH CORP ANNAPOLIS MD F/G 1/2
DEVELOPMENT OF AIR FORCE FLIGHT SAFETY MODELS. VOLUME 10. B-52G--ETC(U)
NOV 75 F09603-72-A-1132
UNCLASSIFIED C54-01-1-1406-VOL-10 NL

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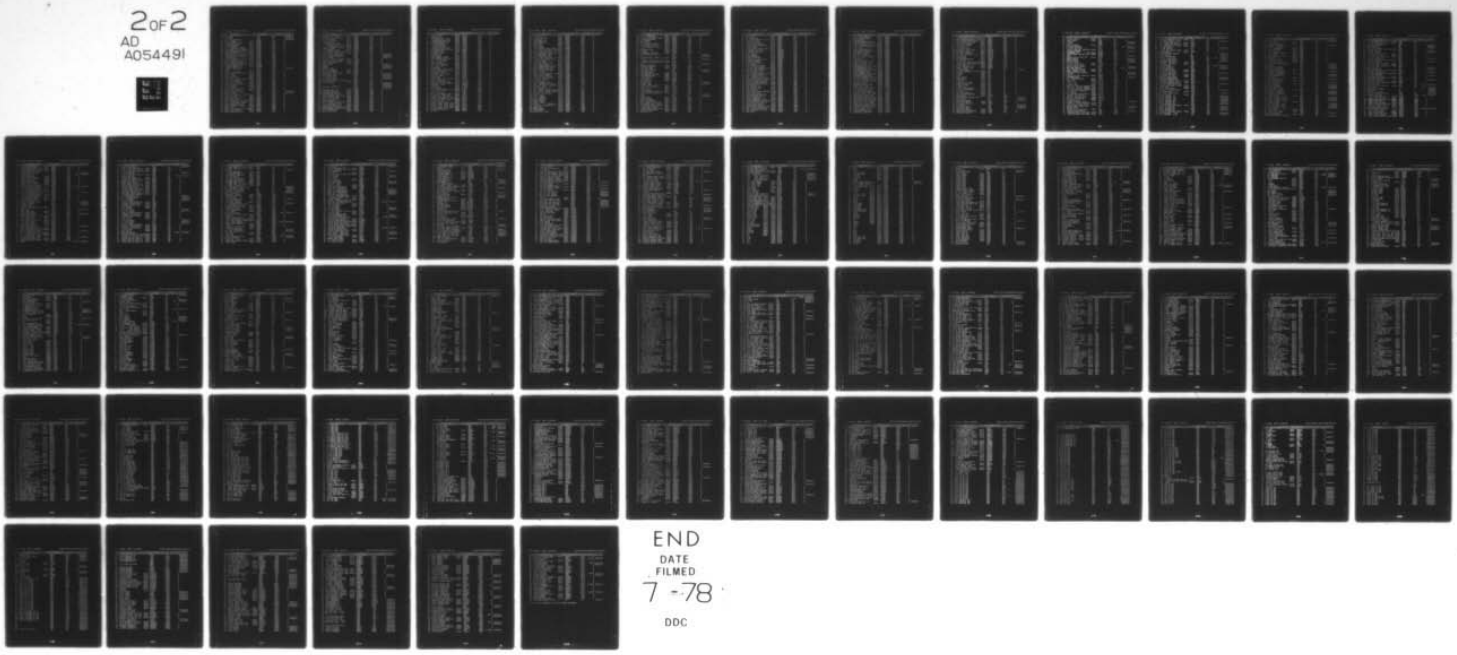

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52	BNS INPUT		CBHA	FBSJ		FAAAAAAAA
52	BNS INPUT		CBHA	FDS		FAAAAAAAA
52	BOMB/NAV COMPUTATION		CBHA	MCC		FAAAAAAAA
52	CONTROL, POWER	73CAA	CBHAA	CBHA	A	
52	CONTROL,DATA SETTING	73CAB	CBHAB	CBHA	B	
52	CONTROL,EMERGENCY	73CAC	CBHAC	CBHA	O	
52	CONTROL,BOMBING	73CAD	CBHAD	CBHA	O	
52	POWER SUPPLY,A-C EXCIT.	73CAE	CBHAE	CBHA	A	
52	POWER SUPPLY,A-C SIGNAL	73CAF	CBHAF	CBHA	A	
52G	POWER SUPPLY,COMPUT.150/300	73CAG	CBHAG	CBHA	A	
52	REGULATOR,VOLTAGE 3EA	73CAH	CBHAH	CBHA	A	
52	FRAME,REGULATOR ELEC. UNIT	73CAJ	CBHAJ	CBHA	A	
52	AMP.,ELEC CONT VOLT REG 3EA	73CAK	CBHAK	CBHA	A	
52	PANEL,BOMB SYST CONTROL	73CAM	CBHAM	CBHA	O	
52	CONTROL,CAMERA	73CAN	CBHAN	CBHA	O	
52	PANEL,TEMPERATURE SENSING	73CAP	CBHAP	CBHA	O	
52	CONTROL,EXTERNAL POWER	73CAQ	CBHAQ	CBHA	O	
52H	POWER SUPPLY,COMPUTER &300	73CAR	CBHAR	CBHA	A	
52H	POWER SUPPLY,COMPUTER &150	73CAS	CBHAS	CBHA	A	
52	AN/AJM-4 MONITOR SET	55BAC	CBHAXX	CBHA	O	
52	AN/AJM-4 MONITOR SET	55BBC	CBHAXY	CBHA	O	
52	DOPPLER %APN-89A<		CBHB	CBHA		22222222
52	ANTENA	73DAA	CBHBA	CBHB	A	
52	CONTROL, RADAR SET	73DAC	CBHBB	CBHB	A	
52	AMP., ELEC. CONTR. AM946	73DAH	CBHBH	CBHB	A	
52	POWER SUPPLY	73DAJ	CBHBJ	CBHB	A	
52	AMP., ASSEMBLY	73DAK	CBHBK	CBHB	A	
52	AMP., AUDIO FREQ.	73DAL	CBHBL	CBHB	A	
52	AMP., ELEC. CONTR. AM2720	73DAM	CBHBM	CBHB	A	
52	MAIN LOOP ASSEMBLY	73DAN	CBHBN	CBHB	A	
52	RATE LOOP ASSEMBLY	73DAP	CBHBP	CBHB	A	
52	SERVO ASSEM., AZIMUTH	73DAQ	CBHBQ	CBHB	A	
52	AMP., ASSEMBLY	73DAR	CBHBR	CBHB	A	
52	POWER SUPPLY	73DAS	CBHBS	CBHB	A	
52	ARRAY ASSEMBLY, ANTENA	73DAT	CBHBT	CBHB	A	
52	TACHOMETER GENERATOR	73DAU	CBHBU	CBHB	A	
52	ASTRO COMPASS %MD-1<		CBHC	CBHA		11111111
52	ASTRO COMPASS		CBHC	CBHB		F22222222
52	AMP., ASTRO&TRACKER SERVO	73EBA	CBHCA	CBHC	A	
52	PREAMP., SERVO	73EBB	CBHCB	CBHC	A	
52	AMP., ROLL MAG. SERVO	73EBC	CBHCC	CBHC	A	
52	AMP., MAG. SERVO	73EBD	CBHCD	CBHC	1	
52	RACK ASSEMBLY,ASTROT.SERVO	73EBE	CBHCE	CBHC	A	
52	AMP., ASTRO&TRACK SIGNAL	73EBF	CBHCF	CBHC	A	
52	POWER SUPPLY, 250 LPS	73EBG	CBHCG	CBHC	A	
52	AMP., CELESTIAL SIGNAL	73EBH	CBHCH	CBHC	A	
52	AMP., DEMOD	73EBJ	CBHCJ	CBHC	A	
52	PREAMP., ALT. AND REL. BEAR	73EBK	CBHCK	CBHC	A	
52	AMP., TIME STANDARD	73EBL	CBHCL	CBHC	A	
52	POWER SUPPLY,&900 VDC	73EBM	CBHCM	CBHC	A	

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52  COMPUTER, CORRECTION          73EAN   CBHCN              CBHC         A
52  TERMINAL BOARD ASSEMBLY       73EBP   CBHCP              CBHC         A
52G AMP., ERECTION                73EAQ   CBHCQ              CBHC         A
52  AMP., ALT. AND AZ.            73EBR   CBHCR              CBHC         A
52  PREAMP., SERVO                73EBS   CBHCS              CBHC         A
52  AMP., MAGNETIC SERVO          73EBT   CBHCT              CBHC         A
52  RACK ASSEMBLY,ALT. AND AZ. 73EBU   CBHCU              CBHC         1
52  AMP., CORRECTION COMPUTER     73EBV   CBHCV              CBHC         A
52  PREAMP., SERVO                73EBW   CBHCW              CBHC         A
52  AMP., MAGNETIC SERVO          73EBX   CBHCX              CBHC         A
52  RACK ASSEM., CORREC. COMPUT73EBY   CBHCY              CBHC         1
52  RACK ASSEM., REMOTE ASTRO     73EBZ   CBHCZ              CBHC         1
52  TRUE HEADING COMPUTATION              CBHD               CBHA          111111111
52  TRUE HEADING COMPUTATION              CBHD               CBHC         FAAAAAAAA
52G HEADING INPUT                         CBHD               FBSC         FAAAAAAAA
52G AMP.,ELEC. CONTR. %AJA-1<     73FBA   CBHDA              CBHD         A
52G COMPUTER ASSY., MAGNETIC      73FBB   CBHDB              CBHD         A
52G AMP., ASSY. PLUG IN           73FBC   CBHDC              CBHD         A
52G POWER SUPPLY                  73FBD   CBHDD              CBHD         A
52H COMPASS                               CBHE               CBHC         FAAAAAAAA
52  COMPASS                               CBHE               CBHD          AAAAAAAA
52H HEADING INPUT                         CBHE               FBSC         FAAAAAAAA
52G AMP., N-1 COMPASS             73FAA   CBHEA              CBHE         A
52G CONTROL, SLAVING              73FAF   CBHEF              CBHE         A
52G TRANSMIT., REMOTE SLAVE       73FAT   CBHET              CBHE         A
52H DIRECTIONAL GYRO                      CBHF               CBHC         SAAAAAAAA
52H DIRECTIONAL GYRO                      CBHF               CBHD         FAAAAAAAA
52G DIRECTIONAL GYRO                      CBHF               CBHE          AAAAAAAA
52H DIRECTIONAL GYRO                      CBHF               CBHE         FAAAAAAAA
52G DIRECTIONAL GYRO,N-1 COMP. 73FAE   CBHFA              CBHF         A
52H ELEMENT,STABLE                73FCA   CBHFB              CBHF         A
52H                                       CBHG               CBHC         SAAAAAAAA
52H                                       CBHG               CBHD         FAAAAAAAA
52G MAGNETIC AZ DETECT.                   CBHG               CBHE          AAAAAAAA
52H                                       CBHG               CBHE         FAAAAAAAA
52G DETECTOR, MAG. AZ.            73FAN   CBHGA              CBHG         A
52H DETECTOR, MAG. AZ.            73FDN   CBHGB              CBHG         A
52H COMPENSATOR, MAG. AZ.         73FDP   CBHGC              CBHG         A
52  FRAME,LATITUDE RELAY          73CBA   CBHJA              CBHA         5
52  FRAME,LATITUDE ELEC UNITS     73CBB   CBHJB              CBHA         5
52  AMP., RESOLVER ISO.           73CBC   CBHJC              CBHA         5
52  AMP., ELEC. CONTROL           73CBD   CBHJD              CBHA         5
52  REJECTOR QUAD.                73CBE   CBHJE              CBHA         5
52  AMP. DISTANCE TO GO RELAY     73CBF   CBHJF              CBHA         5
52  TRANSFORMER STEP DOWN         73CBG   CBHJG              CBHA         5
52  FRAME,LONGITUDE RELAY         73CBH   CBHJH              CBHA         5
52  FRAME,HEADING VELOCITY REL.73CBJ   CBHJJ              CBHA         A
52  FRAME,HEADING VELOCITY ELEC73CBK   CBHJK              CBHA         A
52  AMP.,RESOLVER ISO.            73CBL   CBHJL              CBHA         A
52  AMP.,ELEC CONTR.              73CBM   CBHJM              CBHA         A
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52  REJECTOR QUAD.              73CBN   CBHJN           CBHA        A
52  AMP.,TACH ISO               73CBP   CBHJP           CBHA        A
52  TRANSFORMER STEP DOWN       73CBR   CBHJR           CBHA        A
52  COMPUTER,LATITUDE DATA      73CBS   CBHJS           CBHA        5
52  COMPUTER,LOGITUDE DATA      73CBT   CBHJT           CBHA        5
52  INTEGRATOR,VELOCITY         73CBU   CBHJU           CBHA        5
52  COMPUTER,LATITUDE           73CBV   CBHJV           CBHA        5
52  COMPUTER,LONGITUDE          73CBW   CBHJW           CBHA        5
52  COMPUTER,HEADING ERROR      73CBX   CBHJX           CBHA        A
52  FRAME,PITCH AND ROLL ELEC.  73CDA   CBHKA           CBHA        A
52  AMP.,RESOLV ISO             73CDB   CBHKB           CBHA        A
52  AMP.,ELEC. CONTR.           73CDC   CBHKC           CBHA        A
52  REJECTOR QUAD               73CDD   CBHKD           CBHA        A
52  TRANSFORMER                 73CDE   CBHKE           CBHA        A
52  FRAME HEADING RELAY         73CDF   CBHKF           CBHA        A
52  FRAME HEADING ELEC UNIT     73CDG   CBHKG           CBHA        A
52  AMP., ELEC. CONTR.          73CDH   CBHKH           CBHA        A
52  AMP., RESOLVER ISO.         73CDJ   CBHKJ           CBHA        A
52  REJECTOR, QUAD.             73CDK   CBHKK           CBHA        A
52  AMP., GYRO ERECTION         73CDL   CBHKL           CBHA        A
52  AMP., TACH. ISO.            73CDM   CBHKM           CBHA        A
52  TRANSFORMER                 73CDN   CBHKN           CBHA        A
52  FRAME,MEMORY POINT RELAY    73CDP   CBHKP           CBHA        0
52  FRAME,MEMORY POINT ELEC.    73CDQ   CBHKQ           CBHA        A
52  AMP.,ELEC. CONTR.           73CDR   CBHKR           CBHA        A
52  AMP.,ELEC. TACH. ISO.       73CDS   CBHKS           CBHA        A
52  REJECTOR, QUAD.             73CDT   CBHKT           CBHA        A
52  TRANSFORMER                 73CDU   CBHKU           CBHA        A
52  FRAME, RANGE COORD. RELAY   73CEA   CBHLA           CBHA        8
52  DETECTOR,AIRFLOW            73GCA   CBHLAA          CBHA        1
52  PANEL,COOLING INDICATOR     73GCB   CBHLAB          CBHA        1
52  INDICATOR, TEMP. SENSING    73GCC   CBHLAC          CBHA        1
52  SIMULATOR, TEMP.            73GCD   CBHLAD          CBHA        1
52  J-BOX,ANS                   73GHA   CBHLAE          CBHA        1
52  SHIELD,TIMING               73GJA   CBHLAF          CBHA        1
52  FRAME, RANGE COORD. ELEC.   73CEB   CBHLB           CBHA        8
52  AMP., ELEC. CONTR.          73CEC   CBHLC           CBHA        8
52  REJECTOR QUAD.              73CED   CBHLD           CBHA        8
52  AMP., ELEC. CONTR. INTEG.   73CEE   CBHLE           CBHA        8
52  TRANSFORMER, STEP DOWN      73CEF   CBHLF           CBHA        8
52  TRANSFORMER, WIND AIDING    73CEG   CBHLG           CBHA        8
52  COMPUTER, AZIMUTH AND ELEV. 73CFN   CBHLN           CBHA        A
52  CONTROL,LOW ALT. CALIB.     73CES   CBHLS           CBHA        1
52  CALIB., LOW ALT.            73CET   CBHLT           CBHA        1
52  CIRCUIT BOARD, INPUT. ISO.  73CEU   CBHLU           CBHA        1
52  CIRCUIT BOARD, PHASE SHIFT  73CEV   CBHLV           CBHA        1
52  CIRCUIT BOARD, SERVO DRIVE  73CEW   CBHLW           CBHA        1
52  CIRCUIT BOARD, POWER SUPP.  73CEX   CBHLX           CBHA        1
52  RECEIVER-TRANSMITTER        73DBA   CBHMA           CBHB        A
52  AFC ASSY.                   73D6B   CBHMB           CBHB        A
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52  IF AMP.                          73DBC   CBHMC           CBHB          A
52  CHECK OSILLATOR                  73DBD   CBHMD           CBHB          A
52  CONTROL,HV                       73DBE   CBHME           CBHB          A
52  POWER-SUPPLY,HV                  73DBF   CBHMF           CBHB          A
52  POWER-SUPPLY,LV                  73DBG   CBHMG           CBHB          A
52  AUDIO AMP.                       73DBH   CBHMH           CBHB          A
52  MIXER ASSY.                      73DBJ   CBHMJ           CBHB          A
52  DRIVER ASSY.                     73DBK   CBHMK           CBHB          A
52  BOX, INTERCON. DRIFT ANGLE       73DBM   CBHMM           CBHB          A
52  BOX, DOPPLER EMERGENCY STAB      73DBN   CBHMN           CBHB          2
52  PANEL,RADAR AND HEAD. DOP.       73DBR   CBHMR           CBHB          A
52G PANEL,HEADING SEL.AND DOP.       73DBS   CBHMS           CBHB          2
52  BOX, INTERCONN. FUSE             73DBT   CBHMT           CBHB          A
52  BOX, INTERCONN. POWER            73DBU   CBHMU           CBHB          A
52H PANEL, STAB. AND SEL. DOP.       9973X   CBHMV           CBHB          2
52  AMP., ASTRO-TRACKER SERVO        71EBA   CBHQA           CBHC          A
52  PREAMP., SERVO                   71EBB   CBHQB           CBHC          A
52  AMP., ROLL MAG. SERVO            71EBC   CBHQC           CBHC          A
52  AMP., MAG. SERVO                 71EBD   CBHQD           CBHC          1
52  RACK ASSEMBLY,ASTROT.SERVO       71EBE   CBHQE           CBHC          A
52  AMP., ASTRO-TRACK SIGNAL         71EBF   CBHQF           CBHC          A
52  POWER SUPPLY, 250 CPS            71EBG   CBHQG           CBHC          A
52  AMP., CELESTIAL SIGNAL           71EBH   CBHQH           CBHC          A
52  AMP., DEMOD.                     71EBJ   CBHQJ           CBHC          A
52  PREAMP., ALT. AND REL. BEAR      71EBK   CBHQK           CBHC          A
52  AMP., TIME STANDARD              71EBL   CBHQL           CBHC          A
52  POWER SUPPLY,-900 VDC            71EBM   CBHQM           CBHC          A
52  TERMINAL BOARD ASSEMBLY          71EBP   CBHQP           CBHC          A
52  AMP., ALT. AND AZ.               71EBR   CBHQR           CBHC          A
52  PREAMP., SERVO                   71EBS   CBHQS           CBHC          A
52  AMP., MAGNETIC SERVO             71EBT   CBHQT           CBHC          A
52  RACK ASSEMBLY,ALT. AND AZ.       71EBU   CBHQU           CBHC          1
52  AMP., CORRECTION COMPUTER        71EBV   CBHQV           CBHC          A
52  PREAMP., SERVO                   71EBW   CBHQW           CBHC          A
52  AMP., MAGNETIC SERVO             71EBX   CBHQX           CBHC          A
52  RACK ASSEM., CORREC. COMPUT      71EBY   CBHQY           CBHC          1
52  RACK ASSEM., REMOTE ASTRO.       71EBZ   CBHQZ           CBHC          1
52H CONTROL, DIRECTIONAL             73FDA   CBHSA           CBHE          A
52H AMP., SERVO                      73FDB   CBHSB           CBHE          A
52H SERVO AZIMUTH                    73FDC   CBHSC           CBHE          A
52H AMP., AZIMUTH                    73FDD   CBHSD           CBHE          A
52H AMP., MAGNETIC                   73FDE   CBHSE           CBHE          A
52H POWER SUPPLY                     73FDF   CBHSF           CBHE          A
52H PANEL, CONTROL                   73FDJ   CBHSJ           CBHE          A
52H SWITCH              %ANJ-8<      73FCB   CBHTB           CBHD          A
52H ELECTRONIC CONTROL AND PS        73FCC   CBHTC           CBHD          A
52H AMPLIFIER                        73FCD   CBHTD           CBHD          A
52H POWER SUPPLY                     73FCE   CBHTE           CBHD          A
52H COMPENSATOR                      73FCF   CBHTF           CBHD          A
52H INTEGRATOR, BIAS                 73FCG   CBHTG           CBHD          A
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52H FILTER MECHANICAL              73FCH   CBHTH          CBHD          A
52H AMPLIFIER, HEADING COMPUT.     73FCJ   CBHTJ          CBHD          A
52H COMPUTER ASSEMBLY              73FCK   CBHTK          CBHD          A
52H RATE SWITCH                    73FCL   CBHTL          CBHD          A
52H AMPLIFIER                      73FCM   CBHTM          CBHD          A
52H PANEL, MASTER CONTROL          73FCN   CBHTN          CBHD          A
52H TRANSMITTER, SYNCRO            73FCP   CBHTP          CBHD          A
52H PANEL, SYNCHRO. CONTROL        73FCQ   CBHTQ          CBHD          A
52H METER                          73FCR   CBHTR          CBHD          2
52H AMPLIFIER, DUAL                73FCT   CBHTT          CBHD          A
52H COUNTER                        73FCU   CBHTU          CBHD          A
52H INTEGRATOR, VELOCITY           73FCV   CBHTV          CBHD          A
52  PRESENT POSITION INFO.                 CBJ            CBC             111111111
52  HSI                                    CBJA           CBJ             111111111
52  INDICATOR,HORIZ.SITUA. 2EA     71AFJ   CBJAA          CBJA          1
52  RADAR                                  CBJB           CBJ             111111111
52  INDICATOR AZIMUTH AND RANGE    73CJP   CBJBB          CBJB          1
52  COMPARITOR,TOPOGRAPHICAL       73CJA   CBJBC          CBJB          1
52  DNS                                    CBJC           CBJ             111111111
52  COMPUTER,LATITUDE              73CFV   CBJCA          CBJC          5
52  COMPUTER,LONGITUDE             73CBW   CBJCB          CBJC          5
52  AMP.,ELEC CONT.                73CEQ   CBJHQ          CBHA          A
52  DEPENDENT STEERING                     CBK            CN              222222222
52  LONG RANGE NAV                         CBKA           CBK             000111000
52  RECEIVER,ARN-14                71AAA   CBKAA          CBKA          A
52  MOUNT,ARN-14 RECEIVER          71AAB   CBKAB          CBKA          J
52  DYNAMOTOR,ARN-14               71AAC   CBKAC          CBKA          A
52  ANTENA,ARN 14                  71AAD   CBKAD          CBKA          A
52  PANEL,CONTROL                  71AAG   CBKAG          CBKA          A
52  POWER SUPPLY                   71AAH   CBKAH          CBKA          A
52  TACTICAL NAV                           CBKB           CBK             111111111
52  TACTICAL NAV                           CBKB           CLD            F111111111
52  RECEIVER TRANS. ARN-21         71ALA   CBKBA          CBKB          A
52  MOUNT ARN-21 RX/TX             71ALN   CBKBN          CBKB          J
52  TACAN RADIO                    71ALQ   CBKBQ          CBKB          R
52  ANTENA TACAN                   71ALP   CBKBP          CBKB          A
52  CONTROL,ARN621A RADIO SET      71ALR   CBKBR          CBKB          A
52  COUPLER,TACAN INSTRUMENT       71ALW   CBKBW          CBKB          A
52  RADAR                                  CBKC           CBK             111111111
52  RADAR                                  CBKC           MF             FAAAAAAAAA
52  ANTENA,RADAR                   73CFA   CBKCA          CBKC          A
52  DRIVE ASSEMBLY                 73CFB   CBKCB          CBKC          A
52  ACTUATOR ASSEMBLY              73CFC   CBKCC          CBKC          A
52  POWER SUPPLY,RADAR 120V        73CFD   CBKCD          CBKC          A
52  AMP.,RADAR ELEC. CONTROL       73CFE   CBKCE          CBKC          B
52  FRAME,RADAR AMP. MOUNTING      73CFF   CBKCF          CBKC          2
52  COUPLER,DIRECTIONAL            73CFG   CBKCG          CBKC          A
52  COUPLER,DUAL DIRECTIONAL       73CFH   CBKCH          CBKC          A
52  RECEIVER-TRANSMITTER           73CFK   CBKCK          CBKC          A
52  AMPLIFIER,.IF                  73CFN   CBKCN          CBKC          A
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52  AMP.,VIDEO                    73CFP   CBKCP          CBKC        A
52  AMP.,RADAR AFC                73CFQ   CBKCQ          CBKC        A
52  AMP.,RADAR LOCAL OSC CONT.    73CFR   CBKCR          CBKC        A
52  AMP.,BEACON AFC               73CFS   CBKCS          CBKC        1
52  MAGNETRON ASSEMBLY            73CFT   CBKCT          CBKC        2
52  FILTER RELAY ASSEMBLY         73CFU   CBKCU          CBKC        8
52  CONTROL,SENSITIVITY TIME      73CFX   CBKCX          CBKC        1
52  DRIVE,TUNING                  73CFY   CBKCY          CBKC        2
52  AMPLIFIER,OSCILLATOR ASSY.    73CFZ   CBKCZ          CBKC        A
52  NORMALIZATION UNIT RT         73CF1   CBKCZA         CBKC        0
52  AMPLITUDE EQUALIZER           73CF2   CBKCZB         CBKC        0
52  POWER SUPPLY                  73CF3   CBKCZC         CBKC        A
52  STC GENERATOR                 73CF4   CBKCZD         CBKC        0
52  PHASE EQUALIZER               73CF5   CBKCZE         CBKC        2
52  PREAMP.,TA-1 SUM              73CF6   CBKCZF         CBKC        0
52  PREAMP.,TA-1 DIFFERENCE       73CF7   CBKCZG         CBKC        0
52  MODULATOR,RADAR               73CGA   CBKGA          CBKC        A
52  THYRATRON ASSEMBLY            73CGB   CBKGB          CBKC        A
52  POWER SUPPLY                  73CGC   CBKGC          CBKC        A
52  NETWORK,PULSE FORMING         73CGD   CBKGD          CBKC        A
52  FILTER,RELAY ASSEMBLY         73CGE   CBKGE          CBKC        A
52  CONTROL,RADAR ANTENA TILT     73CGF   CBKGF          CBKC        2
52  CONTROL,RADAR PRIMARY         73CGG   CBKGG          CBKC        A
52  CONTROL,RADAR TEST            73CGH   CBKGH          CBKC        0
52  CONTROL,RADAR TERRAIN TEST    73CGJ   CBKGJ          CBKC        0
52  CARD ASSEM. CIRCUIT BD        73CGK   CBKGK          CBKC        A
52  CONTROL,ANTENNA UNIT          73CGL   CBKGL          CBKC        A
52  PHASE SHIFTER 360 DEGREEE     73CGM   CBKGM          CBKC        1
52  FRAME,RADAR MULATOR MOUNT.    73CGN   CBKGN          CBKC        2
52  REINST.TERRAIN COMPUTER       73CGP   CBKGP          CBKC        0
52  DETECTOR FAILURE WARNING      73CGQ   CBKGQ          CBKC        0
52  GENERATOR,I/R QUAD GATE       73CGR   CBKGR          CBKC        0
52  GENERATOR,BETA                73CGS   CBKGS          CBKC        0
52  AMP.,PROFILE VIDEO            73CGT   CBKGT          CBKC        0
52  AMP.,PLAIN VIDEO              73CGU   CBKGU          CBKC        0
52  POWER SUPPLY                  73CGV   CBKGV          CBKC        A
52  GENERATOR,FAILURE WARNING     73CGW   CBKGW          CBKC        0
52  ELEC. GAMA ASSEM.             73CGX   CBKGX          CBKC        0
52  NORMALIZATION UNIT RTC        73CGY   CBKGY          CBKC        0
52  CARD ASSEMBLY,CIRCUIT         73CGZ   CBKGZ          CBKC        A
52  CONTACT ASSEMBLY              73CG1   CBKGZA         CBKC        2
52  FRAME,COMPARITOR RELAY        73CJB   CBKJB          CBKC        A
52  FRAME,COMPARITOR ELECRONIC    73CJC   CBKJC          CBKC        A
52  AMP.,DEFLECTION VOLTAGE       73CJD   CBKJD          CBKC        A
52  REGULATOR HV SUPPLY           73CJE   CBKJE          CBKC        A
52  TRANSFORMER,INDICATOR         73CJF   CBKJF          CBKC        A
52  POWER SUPPLY COMPAR. HIGH     73CJG   CBKJG          CBKC        A
52  AMP.,DEFLECTION CURRENT       73CJH   CBKJH          CBKC        A
52  AMP.,ELECTRONIC CONTROL       73CJJ   CBKJJ          CBKC        A
52  AMP.,VIDEO                    73CJK   CBKJK          CBKC        A
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52  PROJECTOR ASSEMBLY              73CJL   CBKJL           CBKC        C
52  CAMERA OPTICS ASSEM.            73CJM   CBKJM           CBKC        C
52  FILM MOVEMENT                   73CJN   CBKJN           CBKC        C
52  CONTROL,AZIMUTH AND RANGE       73CJQ   CBKJQ           CBKC        A
52  FRAME,INDICATOR RELAY           73CJR   CBKJR           CBKC        A
52  FRAME,INDICATOR ELEC. UNITS     73CJS   CBKJS           CBKC        A
52  AMP., DEFLECTION VOLTAGE        73CJT   CBKJT           CBKC        A
52  AMP., VIDEO                     73CJU   CBKJU           CBKC        A
52  TRANSFORMER,INDICATOR           73CJV   CBKJV           CBKC        A
52  POWER SUPPLY,COMPARITOR HV      73CJW   CBKJW           CBKC        A
52  REGULATOR,HV SUPPLY             73CJX   CBKJX           CBKC        A
52  AMP. ELEC. CONTROL              73CJY   CBKJY           CBKC        A
52  AMP. DEFLECTION CURRENT         73CJZ   CBKJZ           CBKC        A
52  TUBE AND MAGNET ASSEM.          73CJ1   CBKJ1A          CBKC        A
52  DESICCATOR              2EA     73CKA   CBKKA           CBKC        C
52  FRAME,SWEEP RELAY               73CKB   CBKKB           CBKC        A
52  FRAME,SWEEP ELEC. UNITS         73CKC   CBKKC           CBKC        A
52  COMPUTER,SECTOR OFFSET          73CKD   CBKKD           CBKC        1
52  GENERATOR,SWEEP  3EA            73CKE   CBKKE           CBKC        A
52  GENERATOR,ALTITUDE UNP.GATE     73CKF   CBKKF           CBKC        A
52  GENERATOR,SWEEP GATE            73CKG   CBKKG           CBKC        A
52  TRANSFORMER,SWEEP STEPDOWN      73CKH   CBKKH           CBKC        A
52  INTEGRATOR,ELECTRONIC 3EA       73CKJ   CBKKJ           CBKC        A
52  FRAME,AZIMUTH RELAY             73CKL   CBKKL           CBKC        A
52  FRAME,AZIMUTH ELEC. UNITS       73CKM   CBKKM           CBKC        A
52  INTEGRATOR ELECTRONIC           73CKN   CBKKN           CBKC        A
52  CONVERTER AZIMUTH SIG.2EA       73CKP   CBKKP           CBKC        A
52  GENERATOR AZIMUTH CROSS H.      73CKQ   CBKKQ           CBKC        C
52  TRANSFORMER AZ AND RANGE        73CKR   CBKKR           CBKC        A
52  AMP.,AZ. RESOLVER ISO 3EA       73CKS   CBKKS           CBKC        A
52  AMP.,1600-CYCLE                 73CKT   CBKKT           CBKC        A
52  GENERATOR,SECTOR SCAN           73CKU   CBKKU           CBKC        1
52  FRAME,RANGE RELAY               73CKV   CBKKV           CBKC        A
52  PUMP ASSEMBLY,DESICCATOR        73CKW   CBKKW           CBKC        1
52  FRAME,RANGE ELEC. UNIT          73CLA   CBKLA           CBKC        A
52  GENERATOR,TIMING PULSE          73CLB   CBKLB           CBKC        A
52  GENERATOR,ALT. TIME GATE        73CLC   CBKLC           CBKC        C
52  GENERATOR,RANGE TIME GATE       73CLD   CBKLD           CBKC        A
52  AMP.,MARKER MIXING GATE         73CLE   CBKLE           CBKC        C
52  TRANSFORMER,AZ./RANGE 5EA       73CLF   CBKLF           CBKC        A
52  GENERATOR,RANGE CROSS HAIR      73CLG   CBKLG           CBKC        C
52  AMP.,MARKER MIXING PULSE        73CLH   CBKLH           CBKC        A
52  GEN.,PULSE REP. FREQUENCY       73CLJ   CBKLJ           CBKC        A
52  GEN.,SWEEP TRIGER PULSE         73CLK   CBKLK           CBKC        1
52  CONTROL,PRESENTATION ADJ.       73CLL   CBKLL           CBKC        A
52  CONTROL,PRESENTATION GAIN       73CLM   CBKLM           CBKC        B
52  CONTROL,RANGE SELECTOR          73CLN   CBKLN           CBKC        2
52  CONTROL,TARGET SCALE            73CLP   CBKLP           CBKC        2
52  CONTROL,TERRAIN RADAR           73CLQ   CBKLQ           CBKC        C
52  CONTROL,STC AMPLITUDE           73CLR   CBKLR           CBKC        1
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52  SELECTOR,RANGE TARGET SCALE 73CLS   CBKLS      CBKC      2
52G POWER SUPPLY,PRESN.150/-300 73CLT   CBKLT      CBKC      A
52G POWER SUPPLY,PRESN.150/&300 73CLU   CBKLU      CBKC      A
52G POWER SUPPLY,PRESN.600      73CLV   CBKLV      CBKC      A
52G COOLER P.S. LIQUID          73CLW   CBKLW      CBKC      A
52G PUMP P.S. COOLANT           73CLX   CBKLX      CBKC      A
52H P.S. MAGNETIC               73CLY   CBKLY      CBKC      A
52H FRAME,P.S. RELAY            73CLZ   CBKLZ      CBKC      A
52H FRAME,P.S. ELEC. UNITS      73CL2   CBKLZA     CBKC      A
52H AMP.,P.S. FILTER            73CL3   CBKLZB     CBKC      A
52H AMP.,P.S. REGULATOR         73CL4   CBKLZC     CBKC      A
52G PUMP AND MOTOR P.S. COOL.   73CL5   CBKLZD     CBKC      A
52G FILTER,300V                 73CL6   CBKLZE     CBKC      A
52G FILTER,150V                 73CL7   CBKLZF     CBKC      A
52  UNIT PRESSURIZATION         73GPA   CBKPA      CBKC      A
52  DEHYDRATOR                  73GPB   CBKPB      CBKC      0
52  SWITCH, ABS. AIR PRESS.CONT 73GBC   CBKPC      CBKC      A
52  SWITCH, ABS. AIR PRESS.SIG  73GBD   CBKPD      CBKC      A
52  COMPRESSOR, AIR             73GBF   CBKPE      CBKC      A
52  PANNEL, PRESS. CONT.        73GBW   CBKPW      CBKC      1
52  PANNEL, PRESS. IND.         73GBX   CBKPX      CBKC      1
52  IDENTIFICATION                      CC         C           000000000
52  RECEIVER-TRASMITTER APX-64  65BAA   CCA        CC        A
52  MOUNTING                    65BAB   CCB        CC        0
52  DECODER                     65BAC   CCC        CC        A
52  CODER                       65BAD   CCD        CC        A
52  POWER SUPPLY                65BAE   CCE        CC        A
52  TRANSMITTER                 65BAF   CCF        CC        A
52  GENERATOR                   65BAG   CCG        CC        A
52  MODULE,RADIO FREQ.          65BAH   CCH        CC        A
52  MODULE,DELAY LINE           65BAJ   CCJ        CC        A
52  MODULE,IF AMP.              65BAK   CCK        CC        A
52  MODULE,TEST                 65BAL   CCL        CC        0
52  COMPUTER,TRANSPONDER        65BBB   CCM        CC        A
52  CONTROL,TRANSPONDER SET     65BCA   CCN        CC        8
52  TEST SET                    65BDO   CCP        CC        0
52  ANTENA,L-BAND 2EA           65BEA   CCQ        CC        1
52  ANTENA,SWITCHING UNIT       65BEB   CCR        CC        1
52  DEHYDRATOR                  61BCE   CHACE      CAHC      0
52  APPROACH AND LANDING AIDS           CL         CBA         000000220
52  GLIDE PATH                          CLA        CL          111111111
52  GLIDESLOPE INPUT                    CLA        FCSD        FAAAAAAAAA
52  RECEIVER, ARN-67            71ABE   CLAA       CLA       A
52  ANTENNA,GLIDE PATH          71ABH   CLAB       CLA       A
52  LOCALIZER                           CLB        CL          111111111
52  LOCALIZER INPUT                     CLB        FBSE        FAAAAAAAAA
52  LOCALIZER INPUT                     CLB        FDN         FAAAAAAAAA
52  RECEIVER, ARN-14            71AAA   CLBA       CLB       A
52  MOUNT, ARN-14 RECEIVER      71AAB   CLBB       CLB       0
52  DYNAMOTOR, ARN-14           71AAC   CLBC       CLB       A
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52  ANTENA, ARN-14                71AAD   CLBD            CLB             A
52  POWER SUPPLY                  71AAH   CLBH            CLB             A
52  CONTROL                               CLBP            CLA              FAAAAAAAAA
52  CONTROL                               CLBP            CLB               AAAAAAAAA
52  PANEL, CONTROL                71AAG   CLBPA           CLBP            A
52  APPROACH DISPLAYS                     CLC             CL        CLD     222222222
52  VERTICAL GUIDANCE                     CLCA            CLC               111111111
52   GLIDE SLOPE IND  %ADI<2EA    51ANB   CLCAA           CLCA            1
52  LATERAL GUIDANCE                      CLCB            CLC               111111111
52  INDICATOR, HSI         . 2EA  71AFJ   CLCBA           CLCB            1
52   GLIDE SLOPE IND %ADI< 2EA    51ANB   CLCBB           CLCB            1
52  RANGE                                 CLCD            CLC               111111111
52  MARKER BEACON LIGHT 2EA       9951X   CLCDA           CLCD            1
52  MARKER BEACON                         CLCF            CLCD             FAAAAAAAAA
52  MARKER BEACON                         CLCF            CLCG              111111111
52  MARKER BEACON                         CLCF            CLD               F111111111
52  RECEIVER, ARN-32              71ACC   CLCFA           CLCF            A
52  ANTENA, MARKER BEACON         71ACE   CLCFB           CLCF            A
52  MARKER BEACON ATTEN.                  CLCG            CL                111111111
52  NAV TONE MONITOR                      CLD             CL        K CLC   111111111
52G PANEL C&B2438 CONTROL         64AAB   CLDA            CLD             A
52H PANEL, CONTROL C-2100         64BAB   CLDB            CLD             A
52  RENDEZVOUS RADAR BEACON               CLR             BQV               111111111
52  CONTROL                               CLRA            CLR               AAAAAAAAA
52  CONTROL,C-8128< RADAR SET     72AAA   CLRAA           CLRA            A
52  PRESSURIZATION                        CLRB            CLR               AAAAAAAAA
52  KIT, PRESSURIZATION           72ABA   CLRBA           CLRB            A
52  PUMP, AIR                     72ABB   CLRBB           CLRB            A
52  DEHYDRATOR                    72ABJ   CLRBJ           CLRB            0
52  GAGE, PRESS                   72ABK   CLRBK           CLRB            1
52  SWITCH, PRESS                 72ABL   CLRBL           CLRB            A
52  PANEL,LOW PRESSURE WARNING    72AAB   CLRBM           CLRB            1
52  BASE ,LOW PRESSURE WARNING    72AAC   CLRBN           CLRB            1
52  RECEIVER-TRANSMITTER&APN69<   72AAD   CLRCD           CLR             A
52  DISCRIMINATOR ASSEMBLY        72AAE   CLRCE           CLR             A
52  AFC CHASSIS                   72AAF   CLRCF           CLR             A
52  LOW VOLTAGE PS AND CODER      72AAH   CLRCH           CLR             A
52  COUPLER, DIRECTIONAL          72AAM   CLRCM           CLR             2
52  FAN, MD 135 VANE AXIAL        72AAP   CLRCP           CLR             A
52  ANTENA, FIN MOUNTED           72AAW   CLRCW           CLR             A
52  MICROWAVE UNIT                72AAZ   CLRCZ           CLR             A
52  FLIGHT DIRECTORY GROUP                CM              CBA               111111111
52  COMPUTER, FLIGHT DIRECTOR     71AFK   CMA             CM              A
52  NAVIGATION SYSTEM SELECT      9971X   CMB             CM              A
52  NAVIGATIONAL SIGNAL DATA              CN              CBA               001111100
52  GROUND SPEED                          CS              CBC               000000000
52  INDICATOR, GROUND SPEED       73DAE   CSA             CS              A
52  DOPPLER RADAR COOLING                 CZA             CBHB              111111111
52   DUCT ASSY ELECT AIR DIST     41EBE   CZAA            CZA             1
52   DOPPLER RADAR GEN BLOWER     41EEB   CZAB            CZA             1
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52   DOPPLER RADAR GRN RELAY      41EAD   CZAC          CZA          1
52  FWD RADOME EQUIP COOLING              CZB           CBKC          111111111
52   FWD RADOME GRN BLOWER        41EPA   CZBA          CZB          1
52   DUCT ASSY ELECT AIR DIST     41EBF   CZBB          CZB          1
52   GRND COOLING VALVE ASSY      41EAC   CZBC          CZB          1
52  COOLING CONTROL                       CZC           CZA          100000001
52  COOLING CONTROL                       CZC           CZB          100000001
52   GRN BLOWER CONTROL PANEL     41EAA   CZCA          CZC          1
52   SQUAT SWITCH                 13ACA   CZCB          CZC          5
52 INFORMATION AND DISPLAY                D                          AAAAAAAAA
52 FLIGHT STATUS                          DA            D            CIIIIIIIO
52 ALTITUDE INFORMATION                   DAA           DA      E    OOAIIIAAO
52 BAROMETRIC ALTITUDE                    DAB           DAA     DAF  111111111
52 CORRECTED INDICATION                   DAC           DAB          OOOIIIOOO
52 NAVIGATORS INDICATION                  DAE           DAB          111111111
52  ALTIMETER AAU-19/A           51AAA   DAEA          DAE          1
52  ALTIMETER AAU-19A/A          51AAD   DAEB          DAE          1
52 RADAR ALTITUDE                         DAF           DAA     K DAB  AAAAAAAAA
52 VERTICAL VELOCITY                      DAG           DAA          OOOOOOOIO
52 PILOTS INDICATION                      DAH           DAB          222222222
52  ALTIMETER AAV-19/A           51AAA   DAHA          DAH          5
52  ALTIMETER AAU-19A/A          51AAD   DAHB          DAH          5
52 COPILOTS INDICATION                    DAJ           DAB          111111111
52  ALTIMETER AAU-19/A           51AAA   DAJA          DAJ          5
52  ALTIMETER AAU-19A/A          51AAD   DAJB          DAJ          5
52 ALTITUDE COMPUTATIONS                  DAK           CC           FAAAAAAAAA
52 ALTITUDE COMPUTATIONS                  DAK           DAC          AAAAAAAAA
52  ALTITUDE COMPUTER CPU/66     51AAB   DAKA          DAK          8
52  COMPUTER MOUNTING BASE       51AAC   DAKB          DAK          0
52 ALTITUDE PITOT/STATIC SEN              DAL           DAK          AAAAAAAAA
52  ABSOLUTE PRESSURE PICKUP     74HEA   DALA          DAL          8
52  PITOT TUBE                   51DAA   DALB          DAL          8
52  PITOT TUBE HEATER            51DAB   DALC          DAL          5
52 CO-PILOT V V INDICATION                DAM           DAG          111111111
52  V V INDICATOR                51ABA   DAMA          DAM          8
52 PILOTS V V INDICATION                  DAN           DAG          222222222
52  V V INDICATOR                51ABA   DANA          DAN          8
52 STATIC SENSING  MID                    DAP           CBHA         FAAAAAAAAA
52 STATIC SENSING  MID                    DAP           DAF          FAAAAAAAAA
52 STATIC SENSING  MID                    DAP           DAJ          AAAAAAAAA
52 STATIC SENSING  MID                    DAP           DAM          FAAAAAAAAA
52 STATIC SENSING MID                     DAP           DBD          555555555
52 STATIC SENSING  MID                    DAP           FBJC         FAAAAAAAAA
52  ABSOLUTE PRESSURE PICKUP     74HEA   DAPA          DAP          8
52 STATIC SENSING TOP                     DAQ           DAH          555555555
52 STATIC SENSING TOP                     DAQ           DAN          FAAAAAAAAA
52 STATIC SENSING TOP                     DAQ           DBC          555555555
52  ABSOLUTE PRESSURE PICKUP     74HEA   DAQA          DAQ          8
52 PITOT SENSING   L FWD                  DAT           CBHA         FAAAAAAAAA
52 PITOT SENSING  L FWD                   DAT           DBC          555555555
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52	PITOT SENSING L FWD		DAT	MH	FAAAAAAAA
52	PITOT TUBE	51DAA	DATA	DAT	8
52	PITOT TUBE HEATER	51DAB	DATB	DAT	5
52	ALTITUDE PROCESSING		DAU	DAF	AAAAAAAAA
52	HEIGHT INDICATOR	72CAA	DAUA	DAU	8
52	RADAR TRANSMITTER	72CAE	DAUB	DAU	8
52	RADAR RECEIVER	72CAJ	DAUC	DAU	8
52	IF AMPLIFIER	72CAL	DAUD	DAU	8
52	ELEC CONTROL AMPLIFIER	72CAN	DAUE	DAU	8
52	SERVO ASSY	72CAP	DAUF	DAU	8
52	RADIO INTERFER FILTER	72CAR	DAUG	DAU	8
52	MOUNTING	72CAT	DAUH	DAU	8
52	MODULATOR OSC SET	72CAU	DAUJ	DAU	8
52	LINE STRIP ASSY	72CAV	DAUK	DAU	8
52	CONTROL TIE-IN PANEL	72CAW	DAUL	DAU	1
52	FLIGHT STATUS ATTENUATION		DAX	DA	111111111
52	AIRSPEED		DBA	DAX	0A10101A0
52	INDICATED AIRSPEED		DBB	DBA	111111111
52	PILOTS INDICATION		DBC	DBB	222222222
52	AIRSPEED INDICATOR	51ACA	DBCA	DBC	8
52	CO-PILOTS INDICATION		DBD	DBB	111111111
52	AIRSPEED INDICATOR	51ACA	DBDA	DBD	8
52	TAS/MACH INDICATION		DBE	DBA	111111111
52	MACH INDICATION		DBF	DBE	111111111
52	MACHMETER	51ALD	DBFA	DBF	A
52	PILOTS TAS INDICATION		DBG	DBE	111111111
52	TAS INDICATOR	51ALC	DBGA	DBG	A
52	NAV TAS INDICATION		DBH	DBE	111111111
52	TAS INDICATOR	51ALC	DBHA	DBH	A
52	TAS COMPUTATION		DBJ	DBG	AAAAAAAAA
52	TAS COMPUTATION		DBJ	DBH	FAAAAAAAA
52	TEMPERATURE SENSING		DBK	DBJ	AAAAAAAAA
52	TEMPERATURE BULB	9951A	DBKA	DBK	A
52	TAS/MACH COMPUTATION		DBL	DBF	SAAAAAAAA
52	TAS/MACH COMPUTATION		DBL	DBF	FAAAAAAAA
52	TAS/MACH COMPUATION		DBL	DBJ	FAAAAAAAA
52	TAS COMPUTER	51ALA	DBLA	DBL	A
52	STATIC SENSING BOTTOM		DBM	DBL	AAAAAAAAA
52	STATIC SENSING BOTTOM		DBM	FCSC	FAAAAAAAA
52	STATIC SENSING BOTTOM		DBM	MAD	FAAAAAAAA
52	STATIC DRAIN	51DBE	DBMA	DBM	1
52	PITOT SENSING R FWD		DBN	DBD	FAAAAAAAA
52	PITOT SENSING R FWD		DBN	DBL	AAAAAAAAA
52	PITOT SENSING R FWD		DBN	FCSC	FAAAAAAAA
52	PITOT SENSING R FWD		DBN	MAD	FAAAAAAAA
52	PITOT TUBE	51DAA	DBNA	DBN	8
52	PITOT TUBE HEATER	51DAB	DBNB	DBN	5
52	G-LOAD INDICATION		DBP	DAX	000000000
52	ACCELEROMETER	51AFA	DBPA	DBP	A
52	FREE AIR TEMP INDICATION		DCA	DA	000000000

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52  FREE AIR TEMP INDICATOR 2   51CMA   DCAA          DCA          5
52  FREE AIR TEMP BULB 2 EACH   9951C   DCAB          DCA          5
52 ATTITUDE INFORMATION                 DCB           DA     E       00000000A0
52 PITCH/ROLL INFO                      DCC           DCB            88888888B
52 PILOTS INDICATION                    DCD           DCC            222222222
52  ATTITUDE INDICATOR ARU-2B/A51ANB    DCDA          DCD          A
52 ATTITUDE SENSING                     DCE           CBDC          EAAAAAAAAA
52 ATTITUDE SENSING                     DCE           DCD            AAAAAAAAA
52  ROLL AND PITCH DIS GYRO     51AND   DCEA          DCE          A
52  EMERGENCY PWR PANEL         9951B   DCEB          DCE          8
52  ROLL AND PITCH DIS MOUNT    51ANF   DCEC          DCE          0
52 COPILOTS INDICATION                  DCF           DCC            111111111
52  ATTITUDE INDICATOR ARU-2B/A51ANB    DCFA          DCF          A
52 ATTITUDE SENSING                     DCG           DCF            AAAAAAAAA
52  ROLL AND PITCH DIS GYRO     51AND   DCGA          DCG          A
52  ROLL AND PITCH DIS MOUNT    51ANF   DCGB          DCG          0
52  COPILOTS EQUIP INSTALLATION9951D    DCGC          DCG          8
52 TURN/SLIP INFO                       DCH           DCB            222222222
52 PILOTS INDICATION                    DCJ           DCH            222222222
52  ATTITUDE INDICATOR ARU-2B/A51ANB    DCJA          DCJ          A
52 COPILOTS INDICATION                  DCK           DCH            111111111
52  ATTITUDE INDICATOR ARU-2B/A51ANB    DCKA          DCK          A
52 TURN/SLIP SENSING                    DCL           DCJ            AAAAAAAAA
52  SWITCHING RATE GYRO         51ANE   DCLA          DCL          A
52H RATE/TURN GYRO TRANSMITTER  51ANG   DCLB          DCL          A
52 TURN/SLIP SENSING                    DCM           DCK            AAAAAAAAA
52  SWITCHING RATE GYRO         51ANE   DCMA          DCM          A
52H RATE/TURN GYRO TRANSMITTER  51ANG   DCMB          DCM          A
52 EMERGENCY POWER                      DCP           DCE    K DCQ   AAAAAAAAA
52  FLT GYRO EMERG INVERTER     51ANH   DCPA          DCP          A
52 NORMAL POWER                         DCQ           DCE      DCP   111111111
52 ENVIROMENTAL CONTROL                 E                            AAAAAAAAA
52  LIGHTING                            EA            E      D       111111121
52  INTERNAL LIGHTING                   EAA           EA             0AAAAAAA0
52  FLIGHT STATION LIGHTING             EAAA          EAA            111111111
52  PRIMARY LIGHTING                    EAAB          EAAA     EAAC  111111111
52   INSTRUMENT LIGHT ASSY      44BJA   EAABA         EAAB         1
52   INST. LIGHT XFORMER        44BJB   EAABB         EAAB         1
52H  DIMMING CONTROL UNIT 2EA   44BAA   EAABE         EAAB         1
52   PANEL LIGHT ASSY           44BKA   EAABF         EAAB         1
52   PANEL LIGHT XFORMER        44BKB   EAABG         EAAB         1
52   PANEL LIGHT RHEOSTAT 2EA   44BKC   EAABH         EAAB         1
52   DIMMING CONTROL PILOT      44CAB   EAABJ         EAAB         1
52   PNL LIGHT AUTO XFORMER     47ACK   EAABZY        EAAB         0
52  BACK-UP/EMERG LIGHTING              EAAC          EAAA   K EAAB  222222222
52   FLOOD LIGHT INSTAL.        44BHQ   EAACA         EAAC         1
52   SPOT LIGHT INSTAL.         44BGQ   EAACB         EAAC         1
52   EMERG INST.LIGHT ASSY      44BJA   EAACC         EAAC         2
52   INST. LIGHT XFORMER        44BJB   EAACD         EAAC         1
52   EMERG.FLT.INST.LITE RELAY  44BJD   EAACE         EAAC         1
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52  DOME LIGHT INSTAL.          44ECO   EAACF          EAAC          1
52  THUNDERSTORM LITE ASSY      44BFA   EAACG          EAAC          1
52  THUNDERSTORM LITE PWRSTAT   44FBB   EAACH          EAAC          1
52  THUNDERSTORM LITE SWITCH    44BBC   EAACJ          EAAC          1
52 CREW STATION LIGHTING        EAAF    EAA                          000000000
52  NORMAL LIGHTING             EAAG    EAAF     EAAH  111111111
52  INST LIGHT ASSY             44BJA   EAAGA          EAAG          1
52  INST LIGHT XFORMER          44BJB   EAAGB          EAAG          1
52  DIMMING CONTROL UNIT        44BAA   EAAGC          EAAG          2
52  PANEL LIGHT ASSY            44BKA   EAAGD          EAAG          1
52  PANEL LIGHT XFORMER         44BKB   EAAGE          EAAG          1
52  PANEL LIGHT RHEOSTAT        44PKC   EAAGF          EAAG          2
52 DIMMING CONTROL NAVIGATR     44CAA   EAAGG          EAAG          1
52 CREW STA BACK-UP LIGHTING    EAAH    EAAF   K EAAG  222222222
52  FLOOD LIGHT INSTALLATION    44BHC   EAAHA          EAAH          1
52  SPOT LIGHT INSTALLATION     44BGC   EAAHB          EAAH          1
52  DOME LIGHT INSTALLATION     44ECO   EAAHC          EAAH          1
52 AISLES : PASSAGEWAY LIGHTS   EAAJ    EAA                          000000000
52  DOME LIGHT INSTALLATION     44BCO   EAAJA          EAAJ          1
52  ENTRANCE LIGHT INSTAL       44BDC   EAAJB          EAAJ          1
52  AISLE LIGHT INSTALLATION    44BEC   EAAJC          EAAJ          1
52  WALKWAY LIGHT INSTAL        44EFC   EAAJD          EAAJ          1
52  SPOT LIGHT INSTALL          44BGC   EAAJE          EAAJ          1
52 EXTERNAL LIGHTING ATTEN      EAB     EA                           111111121
52 EXTERNAL LIGHTING            EABA    EAB                          111111111
52 LANDING LIGHTS               EABB    EABA                         000000040
52  LANDING LIGHT ASSY 3EA      44AEA   EABBA          EABB          1
52  LANDING LIGHT XFORMER 3EA   44AEB   EABBB          EABB          1
52 TAXI LIGHTS                  EABC    EABA                         100000001
52  TAXI LIGHT ASSY             44ADA   EABCA          EABC          1
52  TAXI LIGHT XFORMER          44ADB   EABCB          EABC          1
52 NAVIGATION LIGHTS            EABD    EABA                         011111110
52  LIGHT ASSY WING TIP 2EA     44ACA   EABDA          EABD          1
52  TRANSFORMER 2EA             44ACB   EABDB          EABD          1
52  TAIL LIGHT ASSY 4EA         44ACA   EABDC          EABD          1
52  TAIL LIGHT XFORMER 2EA      44ACB   EABDD          EABD          1
52  BODY LIGHT ASSY             44ACA   EABDE          EABD          1
52  BODY LIGHT XFORMER          44ACB   EABDF          EABD          1
52  NAV LIGHT FLASHER           44ACD   EABDG          EABD          1
52 ANTI COLLISION LIGHTS        EABE    EABA                         022222220
52  ANTI COLL.LIGHT ASSY 3EA    44AAA   EABEA          EABE          2
52  ANTI COLL.LIGHT XFORMR 2EA44AAB     EABEB          EABE          3
52 AERIAL REFUELING LIGHTS      EABF    EABA                         000111000
52  AERO REFUEL LIGHT ASSY 5EA44ABA     EABFA          EABF          1
52  AERO REFUEL LT.XFORMER  2EA44ABB    EABFB          EABF          2
52  LIGHT AIR REFUEL RECEPT     46GBJ   EABFZ          EABF          1
52 TERRAIN CLEARANCE LIGHTS     EABG    EABA                         000000010
52  TERRAIN CL LIGHT ASSY       44AFA   EABGA          EABG          A
52  TERRAIN CL LIGHT XFORMR     44AFB   EABGB          EABG          A
52 OXYGEN                       EB      E      K ECP   002555000
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52  FLIGHT CREW OXYGEN                EBA             EB             222222222
52    MASK TO REG HOSE PILOT    47ACL EBAA            EBA        2
52    MASK TO REG HOSE COPILOT  47ACL EBAB            EBA        1
52    MASK TO REG HOSE INST PLT 47ACL EBAC            EBA        1
52  AIR CREW OXYGEN                   EBB             EB             000000000
52    MASK TO REG AIR CREW 6EA  47ACL EBBA            EBB        1
52  NORMAL LOX DIST                   EBC             EB    EBK      111111111
52    OXYGEN REG PILOT          47ACA EBCA            EBC        2
52    OXYGEN REG COPILOT 2EA    47ACA EBCB            EBC        1
52    OXYGEN REG AIR CREW 6EA   47ACA EBCC            EBC        0
52   SUPPLY VALVE PILOT         47ACD EBCK            EBC        2
52   SUPPLY VALVE COPILOT 2EA   47ACD EBCL            EBC        1
52   SUPPLY VALVE AIR CREW 6EA  47ACD EBCM            CBC        0
52    DILUTER VALVE PILOT       47ACE EBCN            EBC        1
52    DILUTER VALVE COPILOT 2E  47ACE EBCP            EBC        1
52    DILUTER VALVE AIR CREW 6E 47ACE EBCQ            EBC        0
52    EMERGENCY VALVE PILOT     47ACF EBCR            EBC        A
52    EMERGENCY VALVE COPLT 2EA 47ACF EBCS            EBC        1
52    EMERGENCY VALVE AIRCRW 6E 47ACF EBCT            EBC        1
52   LOX DISTRIBUTION NO 1            EBD             EBC            111111111
52   LOX DISTRIBUTION NO 2            EBF             EBC            111111111
52   NO 1 LOX SUPPLY                  EBG             EBD            111111111
52   NO 1 LOX SUPPLY                  EBG             EBL           F222222222
52    LIQUID OXYGEN CONVERTER   47AAA EBGA            EBG        A
52    PRESSURE CLOSING VALVE    47AAB EBGB            EBG        2
52    PRESSURE RELIEF VALVE     47AAC EBGC            EBG        2
52    FILLER VALVE              47AAE EBGE            EBG        1
52    VENT VALVE                47AAF EBGF            EBG        1
52   NO 2 LOX SUPPLY                  EBH             EBF            111111111
52   NO 2 LOX SUPPLY                  EBH             EBL           F222222222
52    LIQUID OXYGEN CONVERTER   47AAA EBHA            EBH        A
52    PRESSURE CLOSING VALVE    47AAB EBHB            EBH        2
52    PRESSURE RELIEF VALVE     47AAC EBHC            EBH        2
52    FILLER VALVE              47AAE EBHE            EBH        1
52    VENT VALVE                47AAF EBHF            EBH        1
52   NO 3 LOX SUPPLY                  EBJ             EBD            111111111
52   NO 3 LOX SUPPLY                  EBJ             EBF            111111111
52   NO 3 LOX SUPPLY                  EBJ             EBL           F222222222
52    LIQUID OXYGEN CONVERTER   47AAA EBJA            EBJ        A
52    PRESSURE CLOSING VALVE    47AAB EBJB            EBJ        2
52    PRESSURE RELIEF VALVE     47AAC EBJC            EBJ        2
52    FILLER VALVE              47AAE EBJE            EBJ        1
52    VENT VALVE                47AAF EBJF            EBJ        1
52   EMERGENCY OXYGEN                 EBK             EB     K EBC   AAAAAAAAA
52    GASEOUS OXG CYL FLT CRW 2E47BBA EBKA            EBK        1
52    GASEOUS OXG CYL AIR CRW 4E47BBA EBKB            EBK        1
52    OXYGEN REG FLT CREW 2EA   47BBB EBKC            EBK        1
52    OXYGEN REG AIR CREW 4EA   47BBB EBKD            EBK        1
52    PRESS GAGE FLT CREW 2EA   47BBC EBKE            EBK        0
52    PRESS GAGE AIR CREW 4EA   47BBC EBKF            EBK        0
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52   RECHARGE INST FLT CRW 2EA 47ECD    EBKG                EBK         1
52   RECHARGE INST AIR CRW 4EA 47ECD    EBKH                EBK         0
52  LOX INFO                            EBL                 EBK          333333333
52   LOX QTY INDICATOR         51CLA    EBLA                EBL         2
52   LOX QTY PROBE*EA OF 3<    51CLB    EBLB                EBL         2
52   CAPACITANCE SIMULATOR     51CLC    EBLC                EBL         2
52   FLOW IND PILOT            47ACB    EBLD                EBL         1
52   FLOW IND COPILOT 2EA      47ACB    EBLE                EBL         0
52   FLOW IND AIR CREW 6EA     47ACB    EBLF                EBL         0
52   PRESSURE GAGE PILOT       47ACC    EBLG                EBL         1
52   PRESSURE GAGE CO PILOT 2E 47ACC    EBLH                EBL         0
52   PRESSURE GAGE AIR CREW 6E 47ACC    EBLJ                EBL         0
52   RECHARGE OXG PRESS IND    51CKA    EBLK                EBL         1
52  AIR TEMP AND PRESSURE CONT.         EC                  E            011111120
52  AIR TEMP AND PRESSURE CONT.         EC                  MZB          AAAAAAAAA
52  CABIN AIR CONDITIONING              ECA                 EC           003333100
52  CABIN AIR CONDITIONING              ECA                 ECP         FAAAAAAAAA
52  FLIGHT STATION AIR                  ECAA                ECA          333333333
52   PUSH PULL CONTROL         41ADH    ECAAH               ECAA        7
52   FLEXIBLE DUCT ASSY        41ADL    ECAAL               ECAA        1
52   FILTER ASSY               41AEA    ECAAZY              ECAA        0
52  AIR CREW STATION AIR                ECAB                ECA          000000000
52   PUSH PULL CONTROL         41AEH    ECABH               ECAB        7
52   DUCT ASSY FLEXIBLE        41ADL    ECABL               ECAB        1
52  HOT AIR MODULATON AND DIST          ECAC                ECA          555555555
52  AIR COND/PRESS CONT PNL    41AAA    ECACA               ECAC        A
52   MUFFLER ASSY,CABIN AIR    41ADD    ECACD               ECAC        1
52   MODULATING VALVE          41AAE    ECACE               ECAC        8
52   DUCT ASSY,CABIN AIR       41ACL    ECACEA              ECAC        2
52   CHECK VALVE               9941Y    ECACY               ECAC        1
52  AUTO TEMP CONTROL                   ECAD                ECAC    ECAE 111111111
52   CABIN TEMP CONTROL PANEL  41AAB    ECADB               ECAD        1
52   SWITCH                    41AAC    ECADC               ECAD        A
52   CABIN TEMP REGULATOR      41AAG    ECADG               ECAD        A
52   CABIN TEMP SENSING ELEMENT41AAJ    ECADJ               ECAD        2
52   DUCT TEMP SENSING ELEMENT 41AAK    ECADK               ECAD        2
52  MANUAL TEMP CONTROL                 ECAE                ECAC  K ECAD AAAAAAAAA
52   CABIN TEMP CONTROL PNL    41AAB    ECAEB               ECAE        1
52   SWITCH                    41AAC    ECAEC               ECAE        A
52   MANIFOLD AIR TEMP IND     51CJO    ECAED               ECAE        1
52   CABIN AIR TEMP IND        41AAF    ECAEZ               ECAE        1
52  COLD AIR DISTRIBUTION               ECAF                ECA          333333333
52  COLD AIR DISTRIBUTION               ECAF                EMC          111111111
52   DUCT ASSY                 41ACE    ECAFE               ECAF        1
52   DUCT ASSY                 41ADL    ECAFL               ECAF        1
52  NORMAL COLD AIR SUPPLY              ECAG                ECAF    ECAP 111111111
52  DRY AIR BYPASSED                    ECAH                ECAG         000111000
52   WATER SEP. ASSY           41ADA    ECAHA               ECAH        1
52   WATER SEP. BYPASS CONTROL 41ADC    ECAHC               ECAH        A
52   BYPASS VALVE              9941Z    ECAHZ               ECAH        A
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52  AIR DRYING                        ECAJ             ECAG           111000111
52   WATER SPEARATOR ASSY       41ADA  ECAJA            ECAJ         5
52   WATER SEPARATOR TRAP ASSY  41ADJ  ECAJJ            ECAJ         1
52  AIR COMPRESSION                   ECAK             ECAG            AAAAAAAAA
52   PACK ASSY                  41ACA  ECAKA            ECAK         1
52   TURBINE FAN/AIR CYCLE MACH41ACB   ECAKB            ECAK         A
52  HEAT EXCHANGE                     ECAL             ECAK            AAAAAAAAA
52  HEAT EXCHANGE                     ECAL             MZBA            AAAAAAAAA
52   PACK ASSY                  41ACA  ECALA            ECAL         1
52   HEAT EXCHANGER             41ACC  ECALC            ECAL         A
52  PACK ANTI ICING                   ECAM             ECAH           FAAAAAAAAA
52  PACK ANTI ICING                   ECAM             ECAK            333333333
52   ANTI-ICE VALVE             41ACL  ECAML            ECAM         A
52   PACK ANTI ICE SENSOR       41ACM  ECAMM            ECAM         5
52   PACK TEMP CONTROLLER       41ACN  ECAMN            ECAM         5
52  ENVIR AIR DISTRIBUTION            ECAN             ECA            S111111111
52  ENVIR AIR DISTRIBUTION            ECAN             ECAC           FAAAAAAAAA
52  ENVIR AIR DISTRIBUTION            ECAN             ECAL           FAAAAAAAAA
52  ENVIR AIR DISTRIBUTION            ECAN             ECAM           FAAAAAAAAA
52   FWD AIR COND CONT PANEL    41AAA  ECANA            ECAN         A
52   CATALYTIC ELEMENT FILTER   41ABB  ECANB            ECAN         1
52   SHUTOFF VALVE              41AAD  ECAND            ECAN         A
52   CABIN AIR PRESS.LIMITER A 41ACG   ECANG            ECAN         2
52  EMERGENCY RAM AIR COND/PRES       ECAP             FCAF    K ECAG  222222222
52   RAM AIR SCOOP ASSY         41AEA  ECAPA            ECAP         2
52   DUCT ASSEMBLY              41AEB  ECAPB            ECAP         2
52   RAM AIR VALVE              41AEC  ECAPC            ECAP         A
52  RAM AIR SUPPLY                    ECAR             CZA             111111111
52  RAM AIR SUPPLY                    ECAR             ECAL            AAAAAAAAA
52   RAM AIR COOLING AIR SCOOP 41ACD   ECARD            ECAR         5
52   EXHAUST DUCT               41ACK  ECARK            ECAR         2
52   RAM AIR COOLING DUCT       41ACR  ECARR            ECAR         2
52  CABIN PRESSURIZATION              ECP              EC              001222100
52  NORMALCABIN PRESS.CONTROL         ECPA             ECP      ECPB   111111111
52   CABIN PRESS REGULATOR      41CAA  ECPAA            ECPA         5
52   FWD AIR COND/PRESS CONT    41AAA  ECPAAA           ECPA         1
52   CABIN PRESS REG FILTER %2<41CAB   ECPAB            ECPA         0
52   CABIN PRESS CHECK VALVE    41CAD  ECPAD            ECPA         1
52   CABIN PRESS OUTFLOW VLV%2<41CAE   ECPAE            ECPA         1
52   PRESS RELEASE SOL. VALVE   41CAH  ECPAF            ECPA         1
52  EMERGENCY PRESS/DUMP              ECPB             ECP     K ECPA  AAAAAAAAA
52   CABIN PRESS DUMP VALVE     41CAC  ECPBC            ECPB         A
52   SAFETY DUMP VALVE RELAY    41CAG  ECPBG            ECPB         1
52  EMERG PRESS : DUMP CONT           ECPC             ECAP            AAAAAAAAA
52  EMERG PRESS : DUMP CONT           ECPC             ECPB            111111111
52   FWD AIR COND/PRESS CONT    41AAA  ECPCA            ECPB         1
52   EMERG DUMP HANDLE          9941W  ECPCB            ECPC         2
52  NORMAL PRESS DUMP                 ECPD             ECPB            000000000
52   MLG SAFETY SWITCH          13ACA  ECPDA            ECPD         A
52   MLG SAFETY RELAY           13ADA  ECPDB            ECPD         A
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52  COMMAND PRESS DUMP                  ECPE          ECPB          111111111
52   SWITCH                     41AAC   ECPFC         ECPF       A
52  CABIN PRESS INFO                    ECPF          ECPC          111111111
52   CABIN PRESS IND            51CGA   ECPFA         ECPF       1
52   WARNING LIGHT              49DBA   ECPFAA        ECPF       1
52   INDICATOR CAUTION          49DBB   ECPFAB        ECPF       1
52   LIMIT SWITCH               49DBC   ECPFAC        ECPF       1
52   INDICATOR CAUTION          49DBB   ECPFBB        ECPF       1
52   LIMIT SWITCH               49DBC   ECPFBC        ECPF       1
52  WINDSHIELD CLEAR                    ED            EF            110000021
52  RAIN REMOVAL                        EDA           ED     G      110000021
52  PILOT WINDOW WIPER                  EDAA          EDA           222222222
52   WINDSHIELD WIPER MOTOR     49AAB   EDAAB         EDAA       A
52   WINDSHIELD WIPER CONVERTER49AAF    EDAAF         EDAA       2
52  CO PILOT WINDOW WIPER               EDAB          EDA           111111111
52   WINDSHIELD WIPER MOTOR     49AAB   EDABB         EDAB       A
52   WINDSHIELD WIPER CONVERTER49AAF    EDABF         EDAB       2
52  WIPER CONTROL                       EDAC          EDA           222222222
52   CONTROL SWITCH             49AAE   EDACE         EDAC       A
52  WINDOW ANTI-ICE                     EDB           ED     Y      110000021
52  PRIMARY WINDOW DEICING              EDBA          EDB           222222222
52   WINDSHIELD NO1             11DC6   EDBAC         EDBA       2
52   WINDOW TRANSFORMER 4EA     41HAF   EDBAF         EDBA       1
52   WINDOW NO 2                11DCR  LEDBAR         EDBA       2
52   WINDOW NO 2                11DCR  REDBAR         EDBA       2
52   SLIDING WINDOW             11DCT  LEDBAT         EDBA       0
52   SLIDING WINDOW             11DCT  REDBAT         EDBA       0
52   WINDOW NO 4                11DC7  LEDBAZ         EDBA       0
52   WINDOW NO 4                11DC7  REDBAZ         EDBA       0
52  AUXILLIARY WINDOW DEICING           EDBB          EDB           000000000
52   WINDOW TRANSFORMER 2EA     41HAF   EDBBF         EDBB       2
52   WINDOW 3EA                 11DCS   EDBBS         EDBB       2
52   WINDOW NO 5                11DC8  LEDBBZ         EDBB       2
52   WINDOW NO 5                11DC8  REDBBZ         EDBB       2
52  WINDOW ANTI ICE CONTROL             EDBC          EDB           AAAAAAAAA
52   ANTI ICE TEMP CONT         41HAB   EDBCB         EDBC       1
52   ANTI ICE TEMP CONT SWITCH 41HAC    EDBCC         EDBC       A
52  WINDSHILD LIMIT SWITCH      41HAG   EDBCG         EDBC       A
52  ANTI-ICE                            EF            E             111111111
52  NOSE COWL ANTI-ICEING%8EA<          EFAA          BACA   A      111111111
52   NOSE COWL ANTI ICE RING    11PAN   EFAAA         EFAA       1
52  PITOT TUBE ANTI ICING%8EA<          EFAB          BAMR   A      AAAAAAAAA
52G GEN AIRSCOOP ANTIICING%4EA<         EFAC          UAZ    A      111111111
52  ENGINE ANTI ICE AIR CONT            EFAD          EFAA          AAAAAAAAA
52  ENGINE ANTI ICE AIR CONT            EFAD          EFAB         FAAAAAAAAA
52G ENGINE ANTI ICE AIR CONT            EFAD          EFAC          AAAAAAAAA
52G  ANTI ICE VALVE             23LBA   EFADA         EFAD       A
52   ANTI ICE AIR REGULATOR     23LBB   EFADB         EFAD       5
52   BLEED AIR DUCT             23LRA   EFADC         EFAD       1
52   SHROUD DUCT                23LRB   EFADD         EFAD       1
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52	MANIFOLD DUCT	23LRC	EFADE	EFAD		1	
52	ANTI-ICE AIR MANIFOLD	23LRD	EFADF	EFAD		1	
52	POD RELAY	23LRF	EFADG	EFAD		1	
52G	ANTI ICE VALVE LINE DUCT	23PUE	EFADH	EFAD		1	
52G	ANTI ICE AIR SHUTOFF VALVE	23PUF	EFADJ	EFAD		A	
52H	ANTI ICE AIR SHUTOFF VALVE	23PXJ	EFADK	EFAD		A	
52H	ANTI ICE SYS BRANCH DUCT	23PXK	EFADL	EFAD		1	
52	NACELLE ANTI-ICE VALVE	41GAW	EFADM	EFAD		A	
52H	NACELLE SENSING ELEMENT	41GAX	EFADN	EFAD		1	
52H	NACELLE ANTI-ICE REGULATOR	41GAY	EFADP	EFAD		5	
52	EMERG RAM AIRSCOOP ANTI-ICE		EFAE	ECAP	A		111111111
52	ANTI-ICE VALVE	41ACL	EFAEA	EFAE		1	
52	AGM 69A AIRSCOOP ANTI ICE		EFAF	MZA	A		111111111
52	ANTIICE SHUTOFF VALVE	41JAJ	EFAFA	EFAF		A	
52	COND AIR AIRSCOOP ANTI ICE		EFAG	ECAR	A		111111111
52	ANTI ICE VALVE	41ACL	EFAGA	EFAG		A	
52	ANTI ICE AIR CONTROL		EFAH	EFAD			AAAAAAAAA
52	ANTI ICE AIR CONTROL		EFAH	EFAE			AAAAAAAAA
52	ANTI ICE AIR CONTROL		EFAH	EFAF			FAAAAAAAAA
52	ANTI ICE AIR CONTROL		EFAH	EFAG			AAAAAAAAA
52	SWITCH	23LRE	EFAHA	EFAH		A	
52	ANTI ICE CONTROL PANEL	41GAA	EFAHB	EFAH		1	
52	ENVIR/ANTI ICE AIR DIST		EFAJ	ECAN			AAAAAAAAA
52	ENVIR/ANTI ICE AIR DIST		EFAJ	EFAF			FAAAAAAAAA
52	ENVIR/ANTI ICE AIR DIST		EFAJ	EFAG			FAAAAAAAAA
52	ENVIR/ANTI ICE AIR DIST		EFAJ	MZA			AAAAAAAAA
52	NORMAL AIR CONTROL		EFAK	EFAJ			000000000
52	AIR COND/PRESS CONT PNL	41AAA	EFAKA	EFAK		1	
52	ELECT CONT HEAT EXCHG	45DCA	EFAKAZ	EFAK		1	
52	VALVE CROSSOVER	45DAA	EFAKB	EFAK		1	
52	EJECTOR AIR VALVE	45DCB	EFAKBZ	EFAK		0	
52	SWITCH	41AAC	EFAKC	EFAK		A	
52	AIR OUTLET DUCT	45DCC	EFAKCZ	EFAK		1	
52	RAM AIR VALVE	45DCD	EFAKDZ	EFAK		1	
52	COOLING AIR OUTLET DUCT	45DCE	EFAKEZ	EFAK		1	
52	RATE OF CHG TEMP SENSOR	45DCF	EFAKFZ	EFAK		0	
52	TEMP SENSOR	45DCG	EFAKGZ	EFAK		0	
52H	TEMP CONTROLLER	45DCH	EFAKHZ	EFAK		0	
52	HEAT EXCHG CONT AIR INLET	45DCJ	EFAKJZ	EFAK		1	
52	FLEXIBLE COOLING DUCT	45DCK	EFAKKZ	EFAK		1	
52	COOLING DUCT EJECTR NOZLE	45DCL	EFAKLZ	EFAK		0	
52	EJECTOR NOZL TUBE ASSY	45DCM	EFAKMZ	EFAK		0	
52	3 WAY COOLING DUCT	45DCN	EFAKNZ	EFAK		1	
52	COOLING AIR SHROUD	45DCP	EFAKPZ	EFAK		0	
52	TEMD CONT COOLNG AIR DUCT	45DCQ	EFAKQZ	EFAK		0	
52G	PNEUMATIC CONT HEAT EXCHG	45DCR	EFAKRZ	EFAK		0	
52	EJECTOR AIR VALVE	45DCS	EFAKSZ	EFAK		0	
52	RAM AIR VALVE	45DCT	EFAKTZ	EFAK		1	
52	RAM AIR EXHAUST DUCT	45DCU	EFAKUZ	EFAK		0	
52	AIR BLEED ANTICIPATOR	45DCV	EFAKVZ	EFAK		0	

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52   AIR BLEED THERMOSTAT          45DCW   EFAKWZ          EFAK          0
52   RATE CONTROLLER               45DCX   EFAKXZ          EFAK          1
52   EJECTOR TUBE                  45DCY   EFAKYZ          EFAK          1
52  ALTERNATE AIR CONTROL                  EFAL            EFAJ            111111111
52   AIR COND/PRESS CONT PNL       41AAA   EFALA           EFAL          1
52   SWITCH                        41AAC   EFALB           EFAL          A
52G  AIR SHUTOFF VALVE STRUT 3     23PUD   EFALC           EFAL          A
52H  AIR SHUTOFF VALVE STRUT 3     23PXH   EFALD           EFAL          A
52   STRUT BLEED VALVE             45DAB   EFALE           EFAL          A
52   EMERGENCY AIR CONT                    EFAM            EFAJ    K EFAL  AAAAAAAAA
52G  SHUTOFF VALVE STRUT 1         23PUD   EFAMA           EFAM          1
52G  SHUTOFF VALVE STRUT 4         23PUD   EFAMB           EFAM          1
52H  SHUTOFF VALVE STRUT 1         23PWD   EFAMC           EFAM          1
52H  SHUTOFF VALVE STRUT 4         23PWD   EFAMD           EFAM          1
52   STRUT BLEED VALVE%4EA<        45DAB   EFAME           EFAM          1
52  MANIFOLD AIR CONTROL                   EFAN            EFAJ            AAAAAAAAA
52   SWITCH                        41AAC   EFANA           EFAN          A
52   INDICATOR MANIFOLD TEMP       51CJA   EFANB           EFAN          1
52  EMERGENCY ENVIRO EQUIPMENT             EG              F       X       AAAAAAAAA
52   FIRE EXTINGUISH BOTTLE 2(     49CAA   EGA             EG            3
52H ELECTRONIC EQUIP COOLING               EMC             CBHA            111111111
52  ELECTRONIC EQUIP COOLING               EMC             MAB             111111111
52  ELECTRONIC EQUIP COOLING               EMC             MB              111111111
52   DUCT ASSY ELECT.COOLING       41EBE   EMCA            EMC           1
52   BLOWER TERRAIN COMPUTER       41EBC   EMCZZZ          EMC           1
52  R.FWD RAM AIR COOLING                  EMZ             MAB             111111111
52   DUCT ASSY ELECT COOLING       41EBE   EMZA            EMZ           1
52  FLIGHT CONTROL                         F                               AAAAAAAAA
52  LIFT AUGMENTATION                      FA              F               000000010
52  FLAPS ACTUATED                         FAA             FA              AAAAAAAAA
52   UNIT POWER ASSY               14EBA   FAAA            FAA           A
52   MOTOR %2EA<                   14EBB   FAAB            FAA           2
52   BRAKE %2EA<                   14EBC   FAAC            FAA           2
52  FLAPS CONTROLLED                       FAB             FAA             AAAAAAAAA
52  FLAPS CONTROLLED                       FAB             FAC           FA9AAAAAAA
52   FLAP CONTROL INSTALL          14EAD   FABA            FAB           8
52   CONTROL SWITCHES %4EA<        14EAC   FABB            FAB           5
52   EXT/RET  RELAY %2EA<          42DAE   FABC            FAB           5
52   EXT/RET  RELAY %2EA<          42DAF   FABD            FAB           5
52   FLAP LIMIT SWITCH %4EA<       14EBD   FABE            FAB           2
52  FLAP POSITION WARNING                  FAC             FAB     I FAL   010000000
52   FLAP WARN SW %8EA<            23NQD   FACA            FAC           1
52   WARNING HORN                  14EAG   FACB            FAC           A
52  GROUND SQUAT RELAY             13AUA   FACC            FAC           A
52   FLAP  WARN LIMIT SW           14EBC   FACD            FAC           A
52   MASTER CAUTION LIGHT          49CDD   FACE            FAC           1
52   MASTER CAUTION CONTROLLER     49DDA   FACF            FAC           1
52H  CENTRAL CAUTION PANEL         49DEH   FACG            FAC           1
52H  CENTRAL CAUTION LIGHT         49DEJ   FACH            FAC           1
52H  CENTRAL CAUTION CONTROLLER    49DEA   FACJ            FAC           1
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52H  CENTRAL CAUTION RELAY      49DEG    FACK             FAC             1
52  FLAP POSITION INDICATION             FAD              FAB      I FAE    010000050
52    POSITION TRANSMITTERS %2< 51CAB    FADA             FAD             5
52    POSITION INDICATOR %DUAL< 51CAA    FADB             FAD             8
52  FLAPS POSITIONED                     FAE              FA                 AAAAAAAAA
52    WING     FLAPS POSITIONED         LFAF              FAD               FAAAAAAAAA
52    WING     FLAPS POSITIONED         LFAF              FAE                AAAAAAAAA
52    WING     FLAPS POSITIONED         RFAF              FAD               FAAAAAAAAA
52    WING     FLAPS POSITIONED         RFAF              FAE                AAAAAAAAA
52    OVER SPEED BRAKE          14EDV   LFAFA            LFAF             1
52    OVER SPEED BRAKE          14EDV   RFAFA            RFAF             1
52    FLAP DRIVE TUBE           14ECO   LFAFB            LFAF             A
52    FLAP DRIVE TUBE           14ECO   RFAFB            RFAF             A
52    LINK DRIVE                14EDJ   LFAFC            LFAF             A
52    LINK DRIVE                14EDJ   RFAFC            RFAF             A
52    SHAFT SPLINED             14EDT   LFAFD            LFAF             A
52    SHAFT SPLINED             14EDT   RFAFD            RFAF             A
52  OUTBOARD FLAPS POSITIONED           LFAG             LFAF                 555555555
52  OUTBOARD FLAPS POSITIONED           RFAG             RFAF                 555555555
52    SCREW DRIVE ASSY  %2EA<   14EDA   LFAGA            LFAG             2
52    SCREW DRIVE ASSY  %2EA<   14EDA   RFAGA            RFAG             2
52    TRUNION DRIVESCREW %2EA<  14EDD   LFAGB            LFAG             2
52    TRUNION DRIVESCREW %2EA<  14EDD   RFAGB            RFAG             2
52    PLATE DRIVESCREW END %2EA<14EDG   LFAGC            LFAG             2
52    PLATE DRIVESCREW END %2EA<14EDG   RFAGC            RFAG             2
52    CARRIAGE ASSY     %2EA<   14EDQ   LFAGD            LFAG             2
52    CARRIAGE ASSY     %2EA<   14EDQ   RFAGD            RFAG             2
52    ROLLER ASSY       %2EA<   14EDR   LFAGE            LFAG             2
52    ROLLER ASSY       %2EA<   14EDR   RFAGE            RFAG             2
52    WHEEL ASSY        %2EA<   14EDS   LFAGF            LFAG             2
52    WHEEL ASSY        %2EA<   14EDS   RFAGF            RFAG             2
52    SWIVEL ASSY       %2EA<   14EDU   LFAGG            LFAG             2
52    SWIVEL ASSY       %2EA<   14EDU   RFAGG            RFAG             2
52    POST FLAP         %2EA<   14EDW   LFAGH            LFAG             A
52    POST FLAP         %2EA<   14EDW   RFAGH            RFAG             A
52    ADJ BOLT          %2EA<   14EDX   LFAGJ            LFAG             0
52    ADJ BOLT          %2EA<   14EDX   RFAGJ            RFAG             0
52    NUT/SCREW ASSY    %2EA<   14EDY   LFAGK            LFAG             2
52    NUT/SCREW ASSY    %2EA<   14EDY   RFAGK            RFAG             2
52    SCREW             %2EA<   14ED1   LFAGL            LFAG             2
52    SCREW             %2EA<   14ED1   RFAGL            RFAG             2
52    BEARING           %2EA<   14ED2   LFAGM            LFAG             2
52    BEARING           %2EA<   14ED2   RFAGM            RFAG             2
52    NUT               %2EA<   14EDZ   LFAGN            LFAG             2
52  NUT                %2EAK    14EDZ   RFAGN            RFAG             2
52    FLAP                      14EHA   LFAGP            LFAG             1
52    FLAP                      14EHA   RFAGP            RFAG             1
52    RIB                       14EHB   LFAGQ            LFAG             1
52    RIB                       14EHB   RFAGQ            RFAG             1
52    SPAR                      14EHC   LFAGR            LFAG             1
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52	SPAR		14EHC	RFAGR	RFAG	1	
52	SPAR		14EHD	LFAGS	LFAG	1	
52	SPAR		14EHD	RFAGS	RFAG	1	
52	CARRIAGE ASSY		14EHE	LFAGT	LFAG	A	
52	CARRIAGE ASSY		14EHE	RFAGT	RFAG	A	
52	CARRIAGE		14EHF	LFAGU	LFAG	A	
52	CARRIAGE		14EHF	RFAGU	RFAG	A	
52	TRUCK		14EHG	LFAGV	LFAG	A	
52	TRUCK		14EHG	RFAGV	RFAG	A	
52	INBOARD FLAPS POSITIONED			LFAH	LFAF		666666665
52	INBOARD FLAPS POSITIONED			RFAH	RFAF		666666656
52	SCREW DRIVE ASSY	%2EA<	14EDA	LFAHA	LFAH	2	
52	SCREW DRIVE ASSY	%2EA<	14EDA	RFAHA	RFAH	2	
52	TRUNION	%2EA<	14EDD	LFAHB	LFAH	2	
52	TRUNION	%2EA<	14EDD	RFAHB	RFAH	2	
52	PLATE	%2EA<	14EDG	LFAHC	LFAH	2	
52	PLATE	%2EA<	14EDG	RFAHC	RFAH	2	
52	CARRIAGE ASSY	%2EA<	14EDQ	LFAHD	LFAH	2	
52	CARRIAGE ASSY	%2EA<	14EDQ	RFAHD	RFAH	2	
52	ROLLER	%2EA<	14EDR	LFAHE	LFAH	2	
52	ROLLER	%2EA<	14EDR	RFAHE	RFAH	2	
52	WHEEL	%2EA<	14EDS	LFAHF	LFAH	2	
52	WHEEL	%2EA<	14EDS	RFAHF	RFAH	2	
52	POST,FLAP	%2EA<	14EDW	LFAHG	LFAH	A	
52	POST,FLAP	%2EA<	14EDW	RFAHG	RFAH	A	
52	ADJ BOLT	%2EA<	14EDX	LFAHH	LFAH	0	
52	ADJ BOLT	%2EA<	14EDX	RFAHH	RFAH	0	
52	NUT/SCREW ASSY	%2EA<	14EDY	LFAHJ	LFAH	2	
52	NUT/SCREW ASSY	%2EA<	14EDY	RFAHJ	RFAH	2	
52	SCREW	%2EA<	14ED1	LFAHK	LFAH	2	
52	SCREW	%2EA<	14ED1	RFAHK	RFAH	2	
52	BEARING	%2EA<	14ED2	LFAHL	LFAH	2	
52	BEARING	%2EA<	14ED2	RFAHL	RFAH	2	
52	NUT	%2EA<	14EDZ	LFAHM	LFAH	2	
52	NUT	%2EA<	14EDZ	RFAHM	RFAH	2	
52	SWIVEL	%2EA<	14EDU	LFAHN	LFAH	2	
52	SWIVEL	%2EA<	14EDU	RFAHN	RFAH	2	
52	FLAP		14EEA	LFAHP	LFAH	1	
52	FLAP		14EEA	RFAHP	RFAH	1	
52	RIB		14EEB	LFAHQ	LFAH	1	
52	RIB		14EEB	RFAHQ	RFAH	1	
52	SPAR		14EEC	LFAHR	LFAH	1	
52	SPAR		14EEC	RFAHR	RFAH	1	
52	SPAR		14EED	LFAHS	LFAH	1	
52	SPAR		14EED	RFAHS	RFAH	1	
52	CARRIAGE ASSY		14EEE	LFAHT	LFAH	A	
52	CARRIAGE ASSY		14EEE	RFAHT	RFAH	A	
52	CARRIAGE		14EEF	LFAHU	LFAH	A	
52	CARRIAGE		14EEF	RFAHU	RFAH	A	
52	TRUCK		14EEG	LFAHV	LFAH	A	

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52	TRUCK	14EEG	RFAHV	RFAH	A	
52	YAW CONTROL		FB	F		010000030
52	RUDDER POSITIONED		FBA	FB		AAAAAAAAA
52	RUDDER ASSY	14BGA	FBAA	FBA	1	
52	PANEL BALANCE	14BGE	FBAB	FBA	0	
52	RUDDER SKIN	14BKA	FBAC	FBA	0	
52	RUDDER SKIN	14BKB	FBAD	FBA	0	
52	RUDDER SKIN	14BKC	FBAE	FBA	0	
52	RUDDER SKIN	14BKD	FBAF	FBA	0	
52	RUDDER SKIN	14BKE	FBAG	FBA	0	
52	RUDDER SKIN	14BKF	FBAH	FBA	0	
52	RUDDER SKIN	14BKG	FBAJ	FBA	0	
52	RUDDER SKIN	14BKH	FBAK	FBA	0	
52	HINGE ACCESS DOORS	14BKK	FBAL	FBA	0	
52	CONTROL ACCESS DOORS	14BKL	FBAM	FBA	0	
52	TAB ASS RUDDER CONTROL	14BGJ	FBAN	FBA	2	
52	TAB ASS RUDDER STAB	14BGM	FBAP	FBA	2	
52	DAMPER ASSY MAGNETIC	14BEA	FBAQ	FBA	2	
52	RUDDER ACTUATION		FBB	FBA		AAAAAAAAA
52	ACTUATOR ASSY RUDDER	14FBG	FBBA	FBB	A	
52	MECHANICAL CONTROL		FBC	FBB		AAAAAAAAA
52	LEVER ASSY RATION	14FBA	FBCA	FBC	A	
52	BELLCRANK ASSY,LOWER FIN	14FBF	FBCB	FBC	A	
52	BELLCRANK ASSY UPPER FIN	14FBB	FBCC	FBC	A	
52	CABLE ASSY FIN	14FBE	FBCD	FBC	A	
52	LINK ASSY ROD AFT	14FBC	FBCE	FBC	A	
52	LINK ASSY ROD FWD	14FBD	FBCF	FBC	A	
52	RUDDERTORQUE SHAFT INSTALL	14BC0	FBCG	FBC	A	
52	RUDDER TRIM		FBD	FBC		000000000
52	CABLE ASSY RTA	14BBE	FBDA	FBD	A	
52	CABLE ASSY RTB	14BBF	FBDB	FBD	A	
52	BELLCRANK ASSY Q-SPRING	14FAB	FBDC	FBD	5	
52	TRIM ACTUATOR	14BFF	FBDD	FBD	A	
52	TRIM CONTROL WHEEL ASSY	14BF0	FBDE	FBD	1	
52	AUTOPILOT CONTROL		FBE	FBC		001111110
52	CABLE ASSY RUDDER SERVO	14BBJ	FBEA	FBE	A	
52	RUDDER SERVO INSTALL	52DC0	FBEB	FBE	8	
52	MOTOR/DRIVE ASSY	52DCA	FBEC	FBE	A	
52	DRUM/BRACKET ASSY	52DCB	FBED	FBE	A	
52	RUDDER PEDAL CONTROL		FBF	FBC		0A99999A0
52	TENSION REGULATOR	14BCB	FBFA	FBF	5	
52	CABLE ASSY RA	14BBC	FBFB	FBF	A	
52	CABLE ASSY RB	14BBD	FBFC	FBF	A	
52	CABLE ASSY RBA	14FBB	FBFD	FBF	A	
52	CABLE ASSY RBB	14BBA	FBFE	FBF	A	
52	PEDAL ASSY%2EA<	14BAA	FBFF	FBF	1	
52	BEAM ASSY %2EA<	14BAB	FBFG	FBF	1	
52	ARM ASSY%2EA<	14BAC	FBFH	FBF	1	
52	AIRCREW ACTION		FBG	FBF		AAAAAAAAA
52	ARTIFICIAL FEEL		FBH	FBG		111111111

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52   CABLE ASSY Q-SPRING          14FCF   FBHA          FBH          5
52   Q-SPRING ASSY                14FCH   FBHB          FBH          5
52   STOPS-ADJUSTABLE             14FAA   FBHC          FBH          0
52   BELLCRANK ASSY Q-SPRING      14FAB   FBHD          FBH          5
52   LEVER ASSY FEEL              14FAC   FBHE          FBH          5
52   BRACKET ASSY FEEL            14FAD   FBHF          FBH          5
52   CABLE ASSY FEEL              14FAE   FBHG          FBH          5
52   SPRING ASSY FEEL             14FAF   FBHH          FBH          5
52  Q-SPRING ANTI ICE                     FBHZ          FBH     A      888888888
52  Q-SPRING ANTI ICE                     FBHZ          FCH     A      888888888
52   HEATER  Q-SPRING INLET       41GAC   FBHZA         FBHZ         A
52   RELAY-SQUAT SWITCH K283      13ADA   FBHZB         FBHZ         1
52   SWITCH Q-SPRING HEAT         41GAA   FBHZC         FBHZ         A
52  ELECTRICAL CONTROL                    FBJ           FBB          111111111
52  SAS YAW SIGNAL  PROCESS               FBJA          FBJ          AAAAAAAAA
52  SAS YAW SIGNAL  PROCESS               FBJA          FBJF         FAAAAAAAAA
52   YAW INSTALLATION             14FNC   FBJAA         FBJA         8
52   YECU                         14FNA   FBJAB         FBJA         8
52   MODULE                       14FNB   FBJAC         FBJA         A
52   MOUNT                        14FNC   FBJAD         FBJA         0
52  PARAMETER SCHEDULING                  FBJB          FBJA         AAAAAAAAA
52   PARAMETER INSTALLATION       14FMC   FBJBA         FBJB         8
52   UNIT PARAMETER SKED          14FMA   FBJBB         FBJB         8
52   MODULE                       14FMB   FBJBC         FBJB         A
52   PRESSURE SENSOR              14FMC   FBJBD         FBJB         A
52   MOUNT                        14FMD   FBJBE         FBJB         0
52  PITOT/STATIC SENSING                  FBJC          FBJB         AAAAAAAAA
52   SAS PITOT/STATIC INSTALL     14FQC   FBJCA         FBJC         8
52   PITOT TUBE                   14FQA   FBJCB         FBJC         8
52   VALVE ASSY PITOT MANIFOLD    14FQC   FBJCC         FBJC         1
52  YAW RATE SENSING                      FBJD          FBJA         AAAAAAAAA
52   UNIT,RATE SENSOR             14FKA   FBJDA         FBJD         8
52   GYRO                         14FKB   FBJDB         FBJD         A
52   SENSOR INSTALLATION          14FKC   FBJDC         FBJD         8
52  ACCELERATION SENSING                  FBJE          FBJA         AAAAAAAAA
52   ACCEL UNIT INSTALL           14FLC   FBJEA         FBJE         8
52   UNIT,ACCEL                   14FLA   FBJEB         FBJE         8
52   ACCELEROMETER                14FLB   FBJEC         FBJE         A
52   MODULE                       14FLC   FBJED         FBJE         A
52   MOUNT                        14FLD   FBJEE         FBJE         1
52  YAW DISENGAGE WARNING                 FBJF          FBJ     I FBJA 888888833
52   LIGHT ASSY CHANNEL OUT       14FRA   FBJFA         FBJF         1
52G  LIGHT ASSY YAW OFF           14FRA   FBJFB         FBJF         1
52H  CENTRAL CAUTION   PANEL      49DEH   FBJFC         FBJF         1
52H  CENTRAL CAUTION   LIGHT      49DEJ   FBJFD         FBJF         1
52H  CENTRAL CAUTION   CONTROL    49DEA   FBJFE         FBJF         1
52H  CENTRAL CAUTION   RELAY      49DEG   FBJFF         FBJF         1
52   PITOT ANTI-ICE               14FQB   FBJG          FBJC    A      AAAAAAAAA
52   HEATER PITOT TUBE            14FQB   FBJGA         FBJG         A
52   YAW  CHANNEL SWITCH          14FKC   FBJZ          FBJ          A
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52  HYDRAULIC POWER SUPPLIED              FBK          FBB              AAAAAAAAA
52  HYDRAULIC POWER SUPPLIED              FBK          FCB              AAAAAAAAA
52  SYSTEM PRESSURE %EA OF 2<             FBKA         FBK              111111111
52  SYSTEM PRESSURE %EA OF 2<             FBKA         FBKM            FAAAAAAAAA
52   FILTER ASSY              14FF1       FBKAA        FBKA             1
52   ELEMENT                  14FF2       FBKAB        FBKA             0
52   INDICATOR                14FF3       FBKAC        FBKA             0
52   ACCUMULATOR              14FGG       FBKAD        FBKA             1
52   GAGE                     14FGH       FBKAE        FBKA             0
52   VALVE AIR CHARGE         14FGJ       FBKAF        FBKA             0
52  NORMAL PRESSURE                       FBKB         FBKA      FBKL   111111111
52  NORMAL PRESSURE                       FBKB         FBKJ            FAAAAAAAAA
52   PUMP MOTOR ASSY          14FFA       FBKBA        FBKB             A
52   CHECK VALVE              14FFF       FBKBB        FBKB             1
52  FLUID SUPPLY/RETURN                   FBKC         FBKB               AAAAAAAAA
52   RESERVOIR ASSY           14FFT       FBKCA        FBKC             8
52   VALVE RES FILL           14FFU       FBKCB        FBKC             1
52   VALVE AIR BLEED          14FFV       FBKCC        FBKC             0
52   VALVE RELIEF             14FFW       FBKCD        FBKC             1
52   VALVE LOW PRESS RELIEF   14FFX       FBKCE        FBKC             1
52   VALVE HI  PRESS RELIEF   14FFY       FBKCF        FBKC             2
52   VALVE RETURN LINE CHECK  14FFZ       FBKCG        FBKC             1
52   FILTER ASSY RETURN LINE  14FGA       FBKCH        FBKC             1
52   FILTER ELEM              14FGB       FBKCJ        FBKC             0
52   FILTER INDICATOR         14FGC       FBKCK        FBKC             0
52  FLUID COOLED                          FBKD         FBKC               111111111
52   COOLER HYD OIL           14FGL       FBKDA        FBKD             8
52   VALVE COOLER BYPASS      14FGM       FBKDB        FBKD             5
52   DUCT ASSY                14FGZ       FBKDC        FBKD             0
52  RAM AIR COOLING                       FBKE         FBKD               0AAAAAAAA0
52   FLAPPER ASSY             14FGW       FBKEA        FBKE             0
52   VALVE ASSY               14FGV       FBKEB        FBKE             1
52  GROUND COOLING                        FBKF         FBKD               A0000000A
52   BLOWER ASSY              14FGR       FBKFA        FBKF             A
52   SQUAT RELAY              13ADA       FBKFB        FBKF             A
52  CONTROL                               FBKG         FBKB               AAAAAAAAA
52   SYSTEM CONTROL SWITCH    45CAA       FBKGA        FBKG             A
52  PILOT ACTION                          FBKH         FBKG               AAAAAAAAA
52  NORMAL PRESSURE WARNING               FBKJ         FBKH               111111111
52   NORM PRESSURE SWITCH     14FFE       FBKJA        FBKJ             A
52   WARNING LIGHT MAIN       45CAA       FBKJB        FBKJ             1
52   MASTER CAUTION LIGHT     49DDD       FBKJC        FBKJ             1
52   CONTROLLER MASTER CAUTION 49DDA      FBKJD        FBKJ             1
52H  PANEL CENTRAL CAUTION    49DEH       FBKJE        FBKJ             1
52H  INDICATOR LIGHT ASSY     49DEJ       FBKJF        FBKJ             1
52H  CONTROLLER CENT CAUTION  49DEA       FBKJG        FBKJ             1
52H  RELAY CENTRAL CAUTION    49DEG       FBKJH        FBKJ             1
52   DIMMING UNIT             44BAA       FBKJJ        FBKJ             1
52  AUX  PRESSURE WARNING                 FBKK         FBKKK  I FBKL   111111111
52   AUX  PRESSURE SWITCH     14FFR       FBKKA        FBKK             A
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52    WARN LIGHT AUX              45CAA   FBKKB          FBKK          A
52    DIMMING UNIT                44FAA   FBKKC          FBKK          A
52  AUX PRESSURE PROVISORY                FBKKK          FBKA    K FBKB  AAAAAAAAA
52  AUX PRESSURE                          FBKL           FBKA    K FBKB  AAAAAAAAA
52  AUX PRESSURE                          FBKL           FBKK           FAAAAAAAAA
52    TRANSFORMER ASSY HYD        14FFG   FBKLA          FBKL          A
52    PUMP                        14FFH   FBKLB          FBKL          A
52    MOTOR                       14FFJ   FBKLC          FBKL          A
52    VALVE                       14FFP   FBKLD          FBKL          A
52    BRACKET                     14FFQ   FBKLE          FBKL          0
52    CHECK VALVE                 14FFS   FBKLF          FBKL          1
52  SYSTEM PRESSURE DETECTED              FBKM           FCK     I FBKA  555555555
52    SWITCHPRESS HYD SYS MONITO14FGF     FBKMA          FBKM          A
52  YAW ENGAGED                           FBS            FBF             AAAAAAAAA
52  YAW ENGAGED                           FBS            FBSN           FAAAAAAAAA
52  YAW SERVO CONTROL                     FBSA           FBS             AAAAAAAAA
52  YAW SERVO CONTROL                     FBSA           FBJ            FAAAAAAAAA
52    SERVO CONTROL               52ABX   FBSAA          FBSA          A
52    AUTOPILOT REL BUTTON&2<     52AAH   FBSAAA         FBS           1
52    AUTOPILOT OFF/ON SW         52AAD   FBSAAB         FBS           A
52    YAW SERVO AMP               52ABE   FBSAB          FBSA          A
52    FOLLOWUP SERVO              52ABK   FBSAC          FBSA          A
52    FOLLOWUP AMP                52ABG   FBSAD          FBSA          A
52    YAW SERVO ENGAGE SW         52AAC   FBSAE          FBSA          A
52    SERVOS OFF ON SW            52AAD   FBSAF          FBSA          A
52  YAW SIGNAL PROCESSING                 FBSB           FBSA             AAAAAAAAA
52    MAIN AMP                    52ABE   FBSBA          FBSB          A
52    MOUNT                       52ABN   FBSBB          FBSB          0
52    JUNCTION BOX                52AFK   FBSBC          FBSB          A
52    JUNCTION BOX                52ABS   FBSBD          FBSB          A
52    RELAY BOX                   52ABT   FBSBE          FBSB          A
52    POWER CONVERTER             52A6Z   FBSBF          FBSB          A
52    CONTROL COMMAND             52ABD   FBSBG          FBSB          A
52    PARAMETER CONTROL           52ABW   FBSBH          FBSB          1
52  HEADING REFERENCE                     FBSC           FBSB             AAAAAAAAA
52  YAW COMMANDS                          FBSD           FBSB             555555555
52  LOCALIZER CONTROL                     FBSE           FBSD             000000110
52    AMP AUTO APPROACH           52AFA   FBSEA          FBSE          A
52    AUTO LOCALIZER SW           52AAD   FBSEB          FBSE          A
52  FLIGHT CONTROLLER                     FBSF           FBSD             011111110
52    YAW CONTROL KNOB            52AAA   FBSFA          FBSF          A
52  TURN COORDINATION                     FBSH           FBSD             011111110
52    CONTROL COORDINATION        52ABV   FBSHA          FBSH          A
52    SERVO COORD INTEGRATOR      52ABH   FBSHB          FBSH          A
52  BNS CONTROL                           FBSJ           FBSD             000010000
52    SWITCH TURN CONTROL SELECT52AAE     FBSJA          FBSJ          A
52    COUPLER BOMBING             52ABM   FBSJB          FBSJ          A
52  AFCS DISENGAGE WARN                   FBSN           FBG     I FBS   111111111
52G   AUTOPILOT DISENGAGE LIGHT   9952A   FBSNA          FBSN          A
52H   AUTOPILOT DISENGAGE LIGHT   49DEJ   FBSNB          FBSN          1
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52H	PANEL	49DFH	FBSNC	FBSN	0	
52H	CONTROLLER	49DEA	FBSND	FBSN	1	
52H	RELAY	49DFG	FBSNE	FBSN	1	
52H	MASTER CAUTION LIGHT	49DDD	FBSNF	FBSN	1	
52H	MASTER CAUTION CONTROLLER	49DDB	FBSNG	FBSN	1	
52	PITCH CONTROL		FC	F		0AAAAAAA0
52	ELEVATOR PITCH CONTROL		FCA	FC		084262680
52	VORTEX GEN	14DNA	FCAN	FCA	0	
52	ELEVATORS POSITIONED		FCB	FCA		AAAAAAAAA
52	LEFT/RIGHT ELEV POSIT		LFCC	FCB		777777777
52	LEFT/RIGHT ELEV POSIT		RFCC	FCB		777777777
52	ELEVATOR ASSY	14CEA	LFCCA	LFCC	8	
52	ELEVATOR ASSY	14CEA	RFCCA	RFCC	8	
52	BALANCE PANEL	14CEE	LFCCB	LFCC	1	
52	BALANCE PANEL	14CEE	RFCCB	RFCC	1	
52	TAB ASSY	14CEH	LFCCC	LFCC	0	
52	TAB ASSY	14CEH	RFCCC	RFCC	0	
52	ACTUATOR ASSY	14FCG	LFCCD	LFCC	A	
52	ACTUATOR ASSY	14FCG	RFCCD	RFCC	A	
52	BELLCRANK	14FCA	LFCCE	LFCC	A	
52	BELLCRANK	14FCA	RFCCE	RFCC	A	
52	BELLCRANK ACTUATOR	14FCE	LFCCF	LFCC	A	
52	BELLCRANK ACTUATOR	14FCE	RFCCF	RFCC	A	
52	LINK ASSY	14FCF	LFCCG	LFCC	A	
52	LINK ASSY	14FCF	RFCCG	RFCC	A	
52	LINK ASSY CONTROL ROD	14FCD	LFCCH	LFCC	A	
52	LINK ASSY CONTROL ROD	14FCD	RFCCH	RFCC	A	
52	CABLE ASSY	14FCB	LFCCJ	LFCC	A	
52	CABLE ASSY	14FCB	RFCCJ	RFCC	A	
52	BELLCRANK ASSY	14FCC	LFCCK	LFCC	A	
52	BELLCRANK ASSY	14FCC	RFCCK	RFCC	A	
52	ELEVATORS CONTROLLED		FCD	FCA		AAAAAAAAA
52	MECHANICAL CONTROL		FCE	FCD		AA99999AA
52	ELEVATOR QUADRANT ASSY	14CC0	FCEA	FCE	8	
52	ELEVATOR AFT LINKAGE ASSY	14CD0	FCEB	FCE	8	
52	DAMPER ASSY ELEV GUST	14CDC	FCEC	FCE	1	
52	CONTROL COLUMN INPUT		FCF	FCE		AA99999AA
52	CONTROL COLUMN INPUT		FCF	FCH		FAAAAAAAAA
52	CONTROL COLUMN INPUT		FCF	FCSF		FAAAAAAAAA
52	FORWARD LINKAGE INSTALL 2E	14CA0	FCFA	FCF	2	
52	CABLE ASSY ELEV BUS 2EA	14CBA	FCFB	FCF	2	
52	CABLE ASSY ELEV BUS 2EA	14CBB	FCFC	FCF	2	
52	CABLE ASSY ELEV CONTROL 2	14CBC	FCFD	FCF	2	
52	CABLE ASSY ELEV CONTROL 2	14CBD	FCFE	FCF	2	
52	CONTROL COLUMN INSTALL %2E	14AA0	FCFG	FCF	1	
52	COLUMN ASSY	14AAA	FCFH	FCF	1	
52	DISCONNECT ASSY	14AAF	FCFJ	FCF	1	
52	PILOT ACTION		FCG	FCF		AAAAAAAAA
52	ARTIFICIAL FEEL		FCH	FCG		111111111
52	CABLE ASSY Q SPRING	14CCD	FCHA	FCH	A	

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52   G-SPRING ASSY              14CCE   FCHB          FCH          5
52   MECH ASSY                  14CCJ   FCHC          FCH          A
52   TENSION  REGULATOR         14CCG   FCHD          FCH          1
52  CABLE COMP SPRING           14CCK   FCHJ          FCH          1
52  AUTOPILOT INPUT                     FCJ           FCJ            001111111
52   CABLE ASSY ELEV SERVO      14CBG   FCJA          FCJ          A
52   ELEVATOR SERVO INSTALL     52DAC   FCJB          FCJ          A
52   MOTOR/DRIVE ASSY           52DAA   FCJC          FCJ          A
52   DRUM/BRACKET ASSY          52DAB   FCJD          FCJ          A
52  ELECTRICAL CONTROL                  FCK           FCJ            001111110
52  SAS PITCH SIGNAL PROCESS            FCKA          FCK            AAAAAAAAA
52  SAS PITCH SIGNAL PROCESS            FCKA          FCKC          FAAAAAAAAA
52   PECU INSTALLATION          14FPC   FCKAA         FCKA         8
52   PECU                       14FPA   FCKAB         FCKA         8
52   MODULE                     14FPB   FCKAC         FCKA         A
52  SAS PITCH RATE SENSING              FCKB          FCKA           AAAAAAAAA
52   UNIT RATE SENSOR           14FKA   FCKBA         FCKB         A
52  GYRO                       14FKB   FCKBB         FCKB         A
52   UNIT INSTALLATION          14FKC   FCKBC         FCKB         8
52  PITCH DISENGAGE WARNING             FCKC          FCK     I FCKA  888888888
52   LIGHT ASSY,CHANNEL OUT     14FRA   FCKCA         FCKC         1
52G  LIGHT ASSY PITCH OFF       14FRA   FCKCB         FCKC         1
52H  CENTRAL CAUTION PANEL      49DEH   FCKCC         FCKC         1
52H  CENTRAL CAUTION LIGHT      49DEJ   FCKCD         FCKC         1
52H  CENTRAL CAUTION CONTROLLER 49DEA   FCKCE         FCKC         1
52H  CENTRAL CAUTION RELAY      49DEG   FCKCF         FCKC         1
52   PITCH CHANNEL SWITCH       14FPD   FCKZ          FCK          A
52  STABILIZER PITCH CONTROL            FCL           FC             222222222
52  STABILIZER POSITIONED               FCM           FCL            AAAAAAAAA
52   HORIZ STAB ASSY            14DEA   FCMA          FCM          8
52   HINGE ASSY                 14DEB   FCMB          FCM          3
52   SUPPORT ASSY               14DEC   FCMC          FCM          1
52   SUPPORT ASSY               14DED   FCMD          FCM          1
52   SUPPORT ASSY               14DEE   FCME          FCM          1
52   SUPPORT ASSY               14DEF   FCMF          FCM          1
52   SUPPORT ASSY               14DEG   FCMG          FCM          1
52   SUPPORT ASSY               14DEH   FCMH          FCM          1
52   SUPPORT ASSY               14DEJ   FCMJ          FCM          1
52   SUPPORT ASSY               14DEK   FCMK          FCM          1
52   FITTING STAB SCREW         14DEL   FCML          FCM          5
52   SEAL                       14DMQ   FCMM          FCM          0
52   ELEV ACCESSDOOR            14DKB   FCMP          FCM          0
52   FLARE ACCESSDOOR           14DKH   FCMQ          FCM          0
52   STAB HINGE ACCESS DOOR     14DKD   FCMR          FCM          0
52   ELEV BALANCE ACCESSDOOR    14DKE   FCMS          FCM          0
52   ELEV BAL PANEL DOOR        14DKF   FCMT          FCM          0
52   TRIM MECHINISM ASSY.       14DDA   FCMV          FCM          1
52   MOTOR STAB TRIM %2EA<      14DDB   FCMW          FCM          1
52   ACTUATOR HYD BRAKE %2EA<   14DDC   FCMX          FCM          1
52   VALVE,METERING %2EA<       14DDD   FCMY          FCM          1
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52	STABILIZER ICE FREE		FCN	FCM	A		111111111
52	THERMOSTAT UNIT	9914B	FCNA	FCN		8	
52	HEATING ELEMENTS	9914C	FCNB	FCN		A	
52	STABILIZER CONTROLLED		FCP	FCL			AAAAAAAAA
52	ELECTRIC TRIM		FCQ	FCP	FCR		333333333
52	MOTOR STAB TRIM ELECTRIC	14DDH	FCQA	FCQ		A	
52	ACTUATOR STAB TRIM ELECTRI	14DDG	FCQB	FCQ		A	
52	TRIM SWITCHES %2EA<	14DDA	FCQC	FCQ		5	
52	SWITCH STAB TRIM CUT OUT	14DAB	FCQD	FCQ		0	
52	MANUAL TRIM		FCR	FCP	K FCQ		AA222225A
52	AISLE STAND CONTROL	14DBU	FCRA	FCR		1	
52	CHAIN	14DBC	FCRB	FCR		A	
52	CABLE ASSY	14DCA	FCRC	FCR		A	
52	CABLE ASSY	14DCB	FCRD	FCR		A	
52	PITCH ENGAGED		FCS	FCJ			AAAAAAAAA
52	PITCH ENGAGED		FCS	FCSA			FAAAAAAAAA
52	PITCH ENGAGED		FCS	FCT			FAAAAAAAAA
52	DISENGAGED WARNING		FCSA	FCG	I FCS		001111580
52G	AP DISENGAGE LIGHT	44BKA	FCSAA	FCSA		A	
52H	AP DISENGAGE LIGHT	49DEJ	FCSAB	FCSA		1	
52H	PANEL CENT CAUTION	49DEH	FCSAC	FCSA		0	
52H	CONTROLLER CENT CAUTION	49DEA	FCSAD	FCSA		1	
52H	RELAY CENT CAUTION	49DEG	FCSAE	FCSA		1	
52H	LIGHT MASTER CAUTION	49DDD	FCSAF	FCSA		1	
52H	CONTROLLER MASTER CAUTION	49DDB	FCSAG	FCSA		1	
52	AUTOPILOT REL BUTTON %2<	52AAH	FCSAX	FCS		1	
52	PITCH SIGNAL PROCESSING		FCSB	FCS			AAAAAAAAA
52	SERVO CONTROL	52ABX	FCSBA	FCSB		A	
52	PITCH SERVO AMP	52ABE	FCSBB	FCSB		A	
52	FOLLOWUP SERVO	52ABK	FCSBC	FCSB		A	
52	PITCH INTEGRATOR	52ABJ	FCSBD	FCSB		A	
52	FOLLOWUP AMP	52ABG	FCSBE	FCSB		A	
52	MAIN AMP	52ABB	FCSBF	FCSB		8	
52	MOUNT MAIN AMP	52ABN	FCSBG	FCSB		0	
52	JUNCTION BOX	52ABR	FCSBH	FCSB		A	
52	JUNCTION BOX	52ABS	FCSBJ	FCSB		A	
52	RELAY BOX	52ABT	FCSBK	FCSB		A	
52	POWER CONVERTER	52ABZ	FCSBL	FCSB		A	
52	CONTROL COMMAND	52ABD	FCSBM	FCSB		A	
52	PITCH GYRO/VERT.	52ACA	FCSBN	FCSB		A	
52	GYRO MOUNT	52ACB	FCSBP	FCSB		1	
52	OFF/ON SWITCH	52AAD	FCSBX	FCS		A	
52	ALTITUDE CONTROL		FCSC	FCSB			000111000
52	ALT RATE AMP	52ABF	FCSCA	FCSC		A	
52	CONTROL,ALT	52ABU	FCSCB	FCSC		A	
52	ALT CONTROL SWITCH	52AAD	FCSCC	FCSC		A	
52	PITCH SERVO ENGAGE SW	52AAC	FCSCX	FCS		A	
52	GLIDESLOPE CONTROL		FCSD	FCSB			000000250
52	AMP,AUTO APPROACH	52ABA	FCSDA	FCSD		A	
52	GEN,AUTO APPROACH RATE	52AB1	FCSDB	FCSD		A	

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52	APP GLIDESLOPE SWITCH	52AAD	FCSDC	FCSD	A	
52	SERVOS ENGAGE SW	52AAD	FCSDX	FCS	A	
52	FLIGHT CONTROLLER		FCSE	FCSB		111111111
52	PITCH KNOB	52AAA	FCSEA	FCSE	A	
52	STEERING TIE-IN		FCSF	FCSB		000111000
52	STEER COUPLER	52FAA	FCSFA	FCSF	A	
52	PITCH MODULE	52BAC	FCSFC	FCSF	A	
52	RELAY ASSY	52FAD	FCSFD	FCSF	A	
52	ACCELEROMETER	52BAE	FCSFE	FCSF	5	
52	TRANSDUCER PITCH FORCE %2<52FAH		FCSFH	FCSF	5	
52	STEER COUPLER INSTALL	52BAO	FCSFJ	FCSF	8	
52	PITCH SAFETY MONITOR		FCSG	FCSB		111111111
52	AMP SAFETY	52ABC	FCSGA	FCSG	A	
52	RECEIVER SYNCHRO ACCEL	52ACC	FCSGB	FCSG	A	
52	TRANSMITTER	52ACG	FCSGC	FCSG	A	
52	FORCE LINK ASSY %2<	52BAJ	FCSGD	FCSG	2	
52	AUTOPILOT TRIM		FCT	FCP		000000000
52	CABLE ASSY	14DCE	FCTA	FCT	A	
52	STAB TRIM SERVO INSTALL	52DCC	FCTB	FCT	8	
52	MOTOR/DRIVE ASSY	52DDA	FCTC	FCT	A	
52	DRUM/BRACKET ASSY	52DDB	FCTD	FCT	A	
52	ROLL/SPEED CONTROL		FD	F		0AAAAAAA0
52	SPOILERS CONTROLLED		FDA	FD		AAAAAAAAA
52	SPEEDBRAKE CONTROL		FDB	FDA		000000010
52	ACTUATORS %4 EA<	14AJB	FDBA	FDB	3	
52	CONTROL INSTALL	14AMD	FDBB	FDB	8	
52	SWITCH ASSY	14AMC	FDBC	FDB	2	
52	TRIM INPUT		FDC	FDA		011111110
52	TRIM INPUT		FDC	FDD		FAAAAAAAA
52	SWITCH TRIM CONTROL%2<	14ADA	FDCA	FDC	2	
52	TRIM ACTUATOR	14ADD	FDCB	FDC	A	
52	LAT TRIM RELAYS	14ADO	FDCC	FDC	A	
52	TRIM CUTOUT SW	14ADC	FDCD	FDC	5	
52	CABLE ASSY	14AEK	FDCE	FDC	A	
52	CABLE ASSY	14ABL	FDCF	FDC	A	
52	TRIM INDICATION		FDD	FDC		000000000
52	TRIM INDICATOR	51CCA	FDDA	FDD	8	
52	TRIM TRANSMITTER	51CCB	FDDB	FDD	A	
52	CONTROL WHEEL INPUT		FDE	FDA		0A99999A0
52	CONTROL WHEEL INPUT		FDE	FDQ		FAAAAAAAA
52	CONTROL COLUMN INSTALL %2<14AAC		FDEA	FDE	1	
52	COLUMN ASSY %2<	14AAA	FDEB	FDE	1	
52	DISCONNECT ASSY	14AAF	FDEC	FDE	1	
52	CABLE ASSY	14ABC	FDED	FDE	A	
52	CABLE ASSY	14ABD	FDEE	FDE	A	
52	CABLE ASSY	14ABJ	FDEF	FDE	A	
52	TENSION REG ASSY %2<	14ABZ	FDEG	FDE	2	
52	AUTOPILOT INPUT		FDF	FDA		001111120
52	LATERAL CONTROL SERVO INST52DBO		FDFA	FDF	8	
52	MOTOR/DRIVE ASSY	52DBA	FDFB	FDF	A	

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52   DRUM/BRACKET ASSY          52DBB   FDFC          FDF          A
52  ROLL ENGAGED                       FDG           FDF            AAAAAAAAA
52  ROLL ENGAGED                       FDG           FDH           FAAAAAAAAA
52   AUTOPILOT REL BUTTON%2<    52AAH   FDGA          FDG          1
52   OFF/ON SW                  52AAD   FDGB          FDG          A
52   ROLL SERVO ENGAGE SW       52AAC   FDGC          FDG          A
52   SERVOS ENGAGE SW           52AAD   FDGD          FDG          A
52  DISENGAGE WARNING                   FDH           FDE     I FDG   111111111
52G  AUTOPILOT DISENGAGE LIGHT  9952A   FDHA          FDH          A
52H  CENTRAL CAUTION LIGHT      49DEJ   FDHB          FDH          1
52H  CENTRAL CAUTION PANEL      49DEH   FDHC          FDH          1
52H  CENTRAL CAUTION CONTROLLER 49DEA   FDHD          FDH          1
52H  MASTER CAUTION LIGHT       49DDD   FDHE          FDH          1
52H  MASTER CAUTION CONTROLLER  49DDB   FDHF          FDH          1
52H  CENTRAL CAUTION RELAY      49DEG   FDHG          FDH          1
52  ROLL SIGNAL PROCESSING              FDJ           FBSH          FAAAAAAAAA
52  ROLL SIGNAL PROCESSING              FDJ           FDG            AAAAAAAAA
52   MAIN AMP                   52ABB   FDJA          FDJ          A
52   CONTROL COMMAND            52ABD   FDJB          FDJ          A
52   ROLL SERVO AMP             52ABE   FDJC          FDJ          A
52   FOLLOWUP AMP               52ABG   FDJD          FDJ          A
52   FOLLOWUP SERVO             52ABK   FDJE          FDJ          A
52   MOUNT                      52ABN   FDJF          FDJ          0
52   JUNCTION BOX               52ABR   FDJG          FDJ          A
52   JUNCTION BOX               52ABS   FDJH          FDJ          A
52   RELAY BOX                  52ABT   FDJJ          FDJ          A
52   PARAMETER CONTROL          52ABW   FDJK          FDJ          1
52   CONTROL SERVO              52ABX   FDJL          FDJ          A
52   POWER CONVERTER            52ABZ   FDJM          FDJ          A
52  ROLL REFERENCE                      FDL           FDJ            AAAAAAAAA
52   GYRO                       52ACA   FDLA          FDL          A
52   SHOCK MOUNT                52ACB   FDLB          FDL          1
52  ROLL COMMANDS                       FDM           FDJ            555555555
52  LOCALIZER COMMANDS                  FDN           FDM            000000110
52   AMPLIFIER  AUTO APPROACH   52ABA   FDNA          FDN          A
52   AUTO LOCALIZER SW          52AAD   FDNB          FDN          A
52  CONTROLLER COMMANDS                 FDP           FDM            011111110
52   ROLL KNOB                  52AAA   FDPA          FDP          5
52  STEERING TIE-IN                     FDQ           FDM            011111110
52   STEERING COUPLER           52BAA   FDQA          FDQ          A
52   ROLL MODULE                52BAB   FDQB          FDQ          A
52   TRANSDUCER,ROLL-FORCE %2<  52BAG   FDQC          FDQ          2
52   RELAY ASSY                 52BAD   FDQD          FDQ          A
52   SERVO ASSY                 52BAK   FDQE          FDQ          A
52   LINK ASSY FORCE%2<         52BAJ   FDQF          FDQ          2
52  BNS COMMANDS                        FDS           FDM            000010000
52   SWITCH TURN CONTROL SELECT 52AAF   FDSA          FDS          A
52   BOMBING COUPLER            52ABM   FDSB          FDS          A
52  SPOILERS POSITIONED                 FDT           FD             AAAAAAAAA
52  LEFT SPOILERS POSITIONED            FDU           FDT            AAAAAAAAA
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52  GROUP A %OUTBOARD<                     FDV                FDU          555555555
52   VALVE ASSY                    14AJA   FDVA               FDV      A
52   DIFFERENTIAL ASSY             14AHA   FDVB               FDV      A
52   ACTUATORS %4EA<               14AJC   FDVC               FDV      2
52   SPOILER STRUCTURE %4EA<       14AKE   FDVD               FDV      1
52   SPOILER SEGMENT ASSY %4EA<14AKA       FDVE               FDV      1
52   SPOILER SKIN                  14ALA   FDVF               FDV      0
52   SPOILER SKIN                  14ALB   FDVG               FDV      0
52   SPOILER SKIN                  14ALC   FDVH               FDV      0
52   SPOILER SKIN                  14ALD   FDVJ               FDV      0
52  PUSHROD LAT CONTROL            14AHJ   FDVK               FDV      A
52  GROUP B %INBOARD<                      FDW                FDU          333333333
52   VALVE  ASSY                   14AJA   FDWA               FDW      A
52   DIFFERENTIAL  ASSY            14AHA   FDWB               FDW      A
52   ACTUATORS %3EA<               14AJC   FDWC               FDW      3
52   SPOILER STRUCTURE %3EA<       14AKE   FDWD               FDW      1
52   SPOILER SEGMENT ASSY %3EA<14AKA       FDWE               FDW      1
52   SPOILER SKIN                  14ALE   FDWF               FDW      0
52   SPOILER SKIN                  14ALF   FDWG               FDW      0
52   SPOILER SKIN                  14ALG   FDWH               FDW      0
52  PUSHROD LAT CONTROL            14AHJ   FDWJ               FDW      A
52  RIGHT SPOILERS POSITIONED              FDX                FDT          AAAAAAAAA
52  GROUP B %INBOARD<                      FDY                FDX          333333333
52   VALVE ASSY                    14AJA   FDYA               FDY      A
52   DIFF  ASSY                    14AHA   FDYB               FDY      A
52   ACTUATORS %3EA<               14AJC   FDYC               FDY      3
52   SPOILER STRUCTURE %3EA<       14AKE   FDYD               FDY      1
52   SPOILER SEGMENT %3EA<         14AKA   FDYE               FDY      1
52   SPOILER SKIN                  14ALE   FDYF               FDY      0
52   SPOILER SKIN                  14ALF   FDYG               FDY      0
52   SPOILER SKIN                  14ALG   FDYH               FDY      0
52  PUSHROD LAT CONTROL            14AHJ   FDYJ               FDY      A
52  GROUP A %OUTBOARD<                     FDZ                FDX          555555555
52   VALVE ASSY                    14AJA   FDZA               FDZ      A
52   DIFFERENTIAL ASSY             14AHA   FDZB               FDZ      A
52   ACTUATORS %4EA<               14AJC   FDZC               FDZ      2
52   SPOILER STRUCTURE   %4EA<     14AKE   FDZD               FDZ      1
52   SPOILER SEGMENT     %4EA<     14AKA   FDZE               FDZ      1
52   SPOILER SKIN                  14ALA   FDZF               FDZ      0
52   SPOILER SKIN                  14ALB   FDZG               FDZ      0
52   SPOILER SKIN                  14ALC   FDZH               FDZ      0
52   SPOILER SKIN                  14ALD   FDZJ               FDZ      0
52  PUSHROD LAT CONTROL            14AHJ   FDZK               FDZ      A
52 GROUND CONTROL                          G                               AAAAAAAAA
52 SPEED CONTROL                           GA                 G      C     000000000
52 SPEED CONTROL                           GA                 GAX          500000005
52 MLG BRAKES                              GAA                GA           700000057
52  MLG BRAKE CONTROL INSTALL      13EAC   GAAA               GAA      A
52  LEVER-PARKING BRAKE            13EFA   GAAB               GAA      0
52  BRAKE CABLE INSTALL %2EA<      13FCO   GAAC               GAA      1
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0000000001111111111222222222233333333334444444444555555555566666666667777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
52  CARTRIDGE ASSY-FEEL SPG%4EA 13EDC   GAAD            GAA          1
52  ARM-BRAKE CONTROL %4EA<     13EDD   GAAE            GAA          1
52  SADDLE-BRAKE CONT ARM %4EA<13EDE    GAAF            GAA          1
52  LINK ASSY-VALVE CONT  %2EA<13EDF    GAAG            GAA          5
52  RETURN SPRG : RETRACT %4EA<13EDG    GAAH            GAA          0
52  VALVE-ALT SLAVE CONTROL     13EED   GAAJ            GAA          1
52 DRAG CHUTE ACTUATED                  GAB             GA             000000090
52  CABLE DRAG CHUTE JETTISON   93AAM   GABB            GAB          0
52  DRAG CHUTE DOOR CLOSE MECH  93ADO   GABC            GAB          0
52  CYLINDER-DOOR OPEN SHOCK    93AEX   GABD            GAB          1
52  JAW ASSY-JETTISON           93AFD   GABE            GAB          0
52  CONTAINER-MAIN CHUTE        93AGB   GABF            GAB          1
52  CANISTER-PILOT CHUTE        93AGD   GABG            GAB          1
52  PARACHUTE, DRAG             93AGC   GABH            GAB          A
52  PILOT CHUTE                 93AGE   GABJ            GAB          A
52 BRAKE PRESSURE                       GAC             GAA            AAAAAAAAA
52  VALVE-HAND PUMP HYD CHECK   13EFG   GACU            GAC          0
52 ANTI-SKID ACTUATION                  GAD             GAA            111111111
52  SWITCH-ANTISKID POWER       13EGA   GADA            GAD          A
52  SHIELD-ANTISKID CONT %4EA<  13EHA   GADB            GAD          A
52  VALVE-ANTISKID %8EA<        13EHB   GADC            GAD          A
52  PLATE-SKID DETECT TORQ %8E<13EJC    GADD            GAD          A
52  ARM-SKID DETECT DRIVE %8EA<13EJD    GADE            GAD          A
52  DETECTOR-SKID %8EA<         13EJE   GADF            GAD          A
52  RELAY-SAFETY SW SQUAT %4EA<13ADA    GADG            GAD          A
52 EACH OF TWO BRAKE PRESSURES          GAF             GAC            111111111
52  VALVE-HYD METERING %2EA<    13EEA   GAFA            GAF          A
52  VALVE-SLAVE METERING %2EA<  13EEB   GAFB            GAF          A
52  VALVE-SHUTTLE %2EA<         13EEC   GAFC            GAF          A
52  VALVE-PRESSURE RELIEF %4EA<13EEE    GAFE            GAF          1
52  ACCUMULATOR-BRAKE HYD %4EA<13EEG    GAFF            GAF          1
52  VALVE-THERMAL RELIEF %4EA<  13EEJ   GAFG            GAF          1
52  FUSE-MLG BRAKE %10 EA<      13EEL   GAFH            GAF          1
52  SWIVEL ASSY-DUAL %4EA<      13EEM   GAFJ            GAF          5
52  BRAKE ASSY %8EA<            13EEP   GAFK            GAF          5
52  PLATE-BACKING %8EA<         13EER   GAFL            GAF          5
52  SEGMENT ASSY-ROTOR %8EA<    13EES   GAFM            GAF          5
52  STATOR PLATE : LINING %8EA<13EET    GAFN            GAF          5
52  PRESS PLATE : LINING %8EA<  13EEU   GAFP            GAF          5
52  PISTON ASSY %8EA<           13EEV   GAFQ            GAF          5
52  CARRIER ASSY %8EA<          13EEW   GAFR            GAF          5
52  RESTRICTOR-BRAKE FLOW %8EA<13EEY    GAFS            GAF          0
52  PUMP ASSY-HAND BRAKE        13EFA   GAFT            GAF          0
52  CABLE DRAG CHUTE DEPLOY     93AAL   GAGA            GAB          A
52 ATTENUATION                          GAX             G              111111111
52 DIRECTIONAL CONTROL                  GB              G              110000011
52 STEERING CONTROL                     GBA             GB             AA00000AA
52  DRUM ASSY-MLG STEERING      13DBJ   GBAD            GBA          A
52  CONTROL UNIT-MLG POSITION   13DDC   GBAE            GBA          A
52 NOSE WHEEL STEERING                  GBB             GBA            110000011
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0000000001111111111222222222233333333334444444444555555555566666666667777777777
1234567890123456789012345678901234567890123456789012345678901234567890123456789
52 NOSE WHEEL STEERING              GBB                GBC           FAAAAAAAA
52   CABLE ASSY-NOSE WHEEL STEER13DBA   GBBA               GBB           A
52   OVERTRAVEL UNIT ASSY        13DBK  GBBB               GBB           1
52   LINK ASSY-STEER SCI 13DBU   13DBL  GBBC               GBB           1
52   VALVE ASSY-STEER METER      13DDD  GBBD               GBB           1
52   ARM-METERING VALV CONT      13DDE  GBBE               GBB           1
52   ARM ASSY-METER VALV LINK    13DDF  GBBF               GBB           1
52   ACTUATOR ASSY               13DDG  GBBG               GBB           1
52   PLATE ASSY                  13DDH  GBBH               GBB           1
52   PIN-ACTUATOR PISTON ATCH    13DDJ  GBBJ               GBB           1
52   SWIVEL ASSY-HYDRAULIC       13DDK  GBBK               GBB           1
52   COMPENSATOR-VALVE           13DDL  GBBL               GBB           1
52   VALVE-TRUNNION SWIVEL       13DDM  GBBM               GBB           1
52   JACKSHAFT ASSY              13DDA  GBBN               GBB           1
52 CROSSWIND CRAB STEERING              GBC                GBA     K GBB   0A0000001
52 CROSSWIND CRAB STEERING              GBC                GBE           FAAAAAAAA
52   CONTROL ASSY CROSSCRAB      13DCA  GBCA               GBC           A
52   CABLE ASSY CROSS STEER      13DCH  GBCB               GBC           A
52   BOX ASSY-CENTER MOTOR GEAR  13DCM  GBCC               GBC           A
52   GEAR BOX-CENTER CONTROL     13DCP  GBCD               GBC           A
52   DRUM ASSY-CENTER CONT CABLE13DCQ   GBCE               GBC           A
52   CAPSTAN-CENTER CONTROL      13DCR  GBCF               GBC           A
52   COORDINATION UNIT ASSY      13DCT  GBCG               GBC           A
52   LINK ASSY-STEER SCI 13DBL   13DCU  GBCH               GBC           A
52   MOTOR-TRIM CENTERING        13DCV  GBCJ               GBC           A
52   SWITCH-CROSSWIND CENTERING  13ABG  GBCK               GBC           A
52   SWITCH-CENTERING            13ACB  GBCL               GBC           A
52   LINK ASSY-STEER SCI 13DBU   13DBL  GBCM               GBC           A
52 REAR WHEEL STEERING                  GBD                GBC            AAAAAAAA
52   CABLE ASSY-REAR STEER       13DBB  GBDA               GBD           A
52   OVERTRAVEL UNIT ASSY        13DBK  GBDB               GBD           1
52   LINK ASSY-STEER SCI 13DBU   13DBL  GBDC               GBD           1
52   JACKSHAFT ASSY              13DDA  GBDD               GBD           1
52   VALVE ASSY-METERING         13DDD  GBDE               GBD           1
52   ARM-METERING VALVE CON      13DDE  GBDF               GBD           1
52   ARM ASSY-METER VALV LINK    13DDF  GBDG               GBD           1
52   ACTUATOR ASSY               13DDG  GBDH               GBD           1
52   PLATE ASSY                  13DDH  GBDJ               GBD           1
52   PIN-ACTUATOR PIST ATTCH     13DDJ  GBDK               GBD           1
52   SWIVEL ASSY-HYDRAULIC       13DDK  GBDL               GBD           1
52   COMPENSATOR-METER VALV      13DDL  GBDM               GBD           1
52   VALVE-TRUNNION SWIVEL       13DDM  GBDN               GBD           1
52 CROSSWIND CRAB INDICATOR             GBE                GBF            11111111
52   INDICATOR-CROSSWIND POSIT   51CEA  GBEA               GBE           5
52   TRANSMITTER-CROSSWD POSIT   51CEB  GBEB               GBE           5
52 PILOT ACTION                         GBF                GBC            AAAAAAAA
52 STEERING MODE SELECT                 GBG                GBA            02000002
52   LEVER ASSY-RATIO SELECTOR   13DAA  GBGA               GBG           A
52   LINK ASSY-RATIO SELECTOR    13DAC  GBGC               GBG           A
52 LANDING GEAR                         L                                 AA00000AA
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00000000011111111112222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
52 MAIN GEAR                           LA               L      6 LXFP  0A0000080
52  ALT ALPHA TRACER                   LA               LXFP         SAAAAAAAAA
52 EXTEND MLG                          LAA              LA             00000000A0
52 EXTEND                              LAA              LB           FAAAAAAAAA
52 MLG DOOR ACTUATOR ASSEMBLY  13CFA   LAAA             LAA          3
52 MLG DOOR ACT STRUT ASSY     13CFD   LAAB             LAA          3
52 ACTUATOR STRUT SHAFT        13CFF   LAAC             LAA          3
52 ACT BALL AND SOCKET ASSY    13CFG   LAAD             LAA          3
52 STRUT END DUST PROTECT BOOT 13CFH   LAAE             LAA          1
52 MLG POSITIONED                      LAB              LAA            AAAAAAAAA
52 MLG DRAG STRUT LOCK ASSY    13CBC   LABA             LAC          A
52 MLG DRAG STRUT LOCK LINK ASS13CBD   LABB             LAC          A
52 UPLOCK RELEASE                      LAC              LAB            AAAAAAAAA
52 MLG LOCK SWITCH             13ACE   LACA             LAC          7
52 MLG ACTUATED                        LAD              LAC            AAAAAAAAA
52 ECC ACT TRANS SWITCH ASSY   13CCA   LADA             LAD          A
52 MLG ECC ACT BUNGEE LINK ARM 13CCB   LADB             LAD          2
52 MLG ECC ACT SHAFT ASSY      13CCC   LADC             LAD          A
52 MLG HYD ACTUATOR ASSY       13CCD   LADD             LAD          A
52 MLG SHUTTLE VALVE ASSY      13CCG   LADE             LAD          2
52 MLG ACT LOWER ACT PIN ASSY  13CCH   LADF             LAD          8
52 DOOR LOCK CABLE ASSY        13CEB   LADG             LAD          9
52 MLG DOOR CABLE CONTROL DRUM 13CEE   LADH             LAD          9
52 MLG TRANSFER SWITCH         13ACD   LADJ             LAD          9
52 RETRACT                             LAE              LXA            111111111
52 ECC ACT TRANS SWITCH ASSY   13CCA   LAEA             LAE          A
52 MLG ECC ACT BUNGEE LINK ARM 13CCB   LAEB             LAE          2
52 MLG ECC ACT SHAFT ASSY      13CCC   LAEC             LAE          A
52 MLG HYD ACTUATOR ASSY       13CCD   LAED             LAE          A
52 MLG SHUTTLE VALVE ASSY      13CCG   LAEF             LAE          2
52 MLG ACT LOWER ACT PIN ASSY  13CCH   LAEG             LAE          8
52 MLG NORM GEAR UP CUT OUT REL13ADF   LAEH             LAE          1
52 DOOR LOCK CABLE ASSY        13CEB   LAEJ             LAE          9
52 MLG DOOR CABLE CONTROL DRUM 13CEE   LAEK             LAE          9
52 MLG DOOR ACTUATOR ASSY      13CFA   LAEL             LAE          3
52 MLG DOOR ACTUATOR STRUT ASSY13CFD   LAEM             LAE          3
52 ACTUATOR STRUT SHAFT        13CFF   LAEN             LAE          3
52 ACT BALL AND SOCKET ASSY    13CFG   LAEO             LAE          3
52 STRUT END DUST PROTECT BOOT 13CFH   LAEP             LAE          1
52 MLG TRANSFER SWITCH         13ACD   LAER             LAE          9
52 MLG POSITIONED                      LAF              LAE            AAAAAAAAA
52 DOWNLOCK RELEASED                   LAG              LAF            AAAAAAAAA
52 MLG DRAG STRUT LOCK ASSY    13CBC   LAGA             LAG          A
52 MLG DRAG STRUT LOCK LINK ASS13CBD   LAGB             LAG          A
52 GEAR CENTERED                       LAH              LAG            AAAAAAAAA
52 CENTERING SWITCH            13ACB   LAHA             LAH          1
52 MLG ACTUATED                        LAJ              LAG            AAAAAAAAA
52 MLG SAFETY SWITCH  <SQUAT@  13ACA   LAJA             LAJ          1
52 MLG SAFETY SWITCH RELAY     13ADA   LAJB             LAJ          1
52                                     LAK              LAD            AAAAAAAAA
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PGG395.JIR1    DATE = 10/16/75                        FLIGHT SAFETY PREDICTION TECHNIQUE

00000000011111111112222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
52 HYD POWER APPLIED                   LAK              LAJ             AAAAAAAA
52 EMERGENCY SELECT                    LAL              LAK    K LAO    AAAAAAAA
52 MLG EMERG CONTROL RELAY     13ACE   LALA             LAL          9
52 MLG EMERG CONTROL SWITCH    13ACH   LALB             LAL          9
52 MLG EMERG CONTROL VALVE     13CDB   LALC             LAL          9
52 POSITION IND-WARNING                LAM              LAL    I LAL    11111111
52 MLG IND AND WARN LOCK SWITCH13AEA   LAMA             LAM          1
52 MLG WARNING TRANSFER SWITCH 13AEB   LAMB             LAM          1
52 MLG INDICATOR TRANS SWITCH  13AEC   LAMC             LAM          1
52 LG THROTTLE WARN SWITCH     13AEG   LAMD             LAM          1
52 LG WARNING HORN             13AEK   LAME             LAM          1
52 LG HANDLE WARN LIGHT        13AEL   LAMF             LAM          1
52 LG INDICATOR SWITCH         13ABF   LAMG             LAM          1
52 MLG POSITION SWITCH RELAY   13ACB   LAMH             LAM          1
52 NORMAL SELECTION                    LAO              LAK      LAL    IIIIIIII
52 LG HANDLE ASSY              13AAE   LAOA             LAO          A
52 LG PUSHROD ASSY             13AAD   LAOB             LAO          A
52 LG HANDLE LOCK SLIDE        13AAF   LAOC             LAO          A
52 LG LINK ASSY                13AAG   LAOD             LAO          A
52 ROLLING SUPPORT                     LB               L               190000CA1
52 TPG SHOCK STRUT ASSY        13BAA   LBA              LB           8
52 SHOCK STRUT COLLAR ASSY     13BAB   LBB              LB           8
52 TRUNNION FITTING HALF BEAR  13BAG   LBC              LB           8
52 TPG SIDE BRACE ASSY         13BCA   LBD              LB           A
52 TPG SIDE BRACE UP LINK ASSY 13BCB   LBE              LB           8
52 TPG LOCK LINK SIDE BR SH ASS13BCC   LBF              LB           A
52 TPG SIDE BRACE ARM ASSY     13BCD   LBG              LB           8
52 TPG SIDE BR LOW LK AND BF AS13BCG   LBH              LB           A
52 MLG TIRE                    13CGB   LBI              LB           9
52 TPG SIDE BR LOW LK ARM ASSY 13BCH   LBJ              LB           A
52 TPG SIDE BR DOWNLOCK LK ASSY13BCL   LBK              LB           A
52 MLG DRAG STRUT ASSY         13CBA   LBL              LB           9
52 MLG DRAG STRUT BUNGEE ASSY  13CBB   LBM              LB           A
52 MLG DRAG STRUT LOCK ASSY    13CBC   LBN              LB           A
52 MLG DRAG STRUT LOCK LK ASSY 13CBD   LBO              LB           8
52 MLG DRAG STRUT LINK ASSY    13CBF   LBP              LB           9
52 TPG SHIMMY DAMPER ASSY      13BJA   LBQ              LB           8
52 TPG WHEEL                   13BKA   LBR              LB           7
52 TBG TIRE                    13BKB   LBS              LB           7
52 MLG SHOCK STRUT ASSY        13CAA   LBT              LB           8
52 MLG TORSION LINK ASSY       13CAB   LBU              LB           A
52 TRUNNION                    13CAD   LBV              LB           8
52 TWO HOLE CAP                13CAE   LBW              LB           5
52 FOUR HOLE CAP               13CAF   LBX              LB           5
52 TRUNNION BEARING INSERT ASSY13CAG   LBY              LB           5
52 MLG WHEEL                   13CGA   LBZ              LB           9
52 TIP GEAR                            LC               LX              11111111
52 EXTEND                              LCA              LC              000000A0
52 TPG DOWNLOCK SWITCH         13ACG   LCAA             LCA          7
52 TPG POSITIONED                      LCB              LCA             AAAAAAAA
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00000000011111111112222222222333333333344444444445555555555666666666677777777778
12345678901234567890123456789012345678901234567890123456789012345678901234567890
52 TPG UPLOCK RELEASED                 LCC              LCB             AAAAAAAAA
52 TPG UPLOCK ROLLER ASSY      13BAD   LCCA             LCC           A
52 TPG UPLOCK SEQ VALVE ACT ASS13BGD   LCCB             LCC           A
52 SHUTTLE VALVE ASSY          13BGE   LCCC             LCC           A
52 HYDRAULIC FUSE ASSY         13BGF   LCCD             LCC           7
52 DOORS OPENED                        LCD              LCC             AAAAAAAAA
52 SHOCK ST DR ACT ST YOKE ASSY13BAC   LCDA             LCD           5
52 STRUT DOOR ACTUATOR         13BAH   LCDB             LCD           5
52 TRUNNION FTG BEARING HALF   13BAG   LCDC             LCD           8
52 GEAR ACTUATED                       LCE              LCD             AAAAAAAAA
52 TPG SWITCH DOWNLOCK         13ACG   LCEA             LCE           9
52 TPG ECC ACT SHAFT ASSY      13BEA   LCEB             LCE           9
52 TPG ECC ACT SHAFT           13BEB   LCEC             LCE           9
52 TPG UPLOCK DAMPER ARM       13BEC   LCED             LCE           7
52 TPG ECC ACT UNIV TRUNNION   13BED   LCEE             LCF           7
52 TPG SEQUENCE VALVE          13BGC   LCEF             LCE           8
52 RETRACT                             LCF              LC              0A0C00000
52 TPG UPLOCK SWITCH           13ACF   LCFA             LCF           A
52 DOORS CLOSED                        LCG              LCF             AAAAAAAAA
52 SH STR DR ACT STR YOKE ASSY 13BAC   LCGA             LCG           5
52 DOOR ACTUATOR STRUT         13BAH   LCGB             LCG           5
52 TPG UP AND LOCKED                   LCJ              LCG             AAAAAAAAA
52 TPG UPLOCK ROLLER ASSY      13BAD   LCJA             LCJ           A
52 TPG UPLOCK ASSY             13BFA   LCJB             LCJ           8
52 TPG UPLOCK DAMPER ASSY      13BFB   LCJC             LCJ           9
52 TPG UPLOCK ACTUATING LINK   13BFC   LCJD             LCJ           9
52 TPG UPLOCK LK BUNGEE ASSY   13BFD   LCJE             LCJ           5
52 TPG UPPER SIDEBRACE SH ASSY 13BFE   LCJF             LCJ           A
52 TPG UPLOCK HOOK ASSY        13BFF   LCJG             LCJ           7
52 TPG UPLOCK VALVE SHAFT ASSY 13BFG   LCJH             LCJ           8
52 TPG UPLOCK BUNGEE BRACK ASSY13BFH   LCJJ             LCJ           5
52 TPG UPLOCK SEQ VALVE ACT ASS13BGD   LCJK             LCJ           A
52 SHUTTLE VALVE ASSY          13BGE   LCJL             LCJ           A
52 HYDRAULIC FUSE ASSY         13BGF   LCJM             LCJ           7
52 DOWNLOCK RELEASED                   LCK              LCJ             AAAAAAAAA
52 TPG SIDEBRACE DOWNLOCK LK AS13BCL   LCKA             LCK           A
52 TPG ECC ACT SHAFT ASSY      13BEA   LCKB             LCK           9
52 TPG ECC ACT SHAFT           13BEB   LCKC             LCK           9
52 TPG UPLOCK DAMPER ARM       13BEC   LCKD             LCK           7
52 TPG ECC ACT UNIV TRUNNION   13BED   LCKE             LCK           7
52 TPG DOWNLOCK SWITCH         13ACG   LCKF             LCK           A
52 GEAR ACTUATED                       LCL              LCK             AAAAAAAAA
52 TPG SEQUENCE VALVE          13BGC   LCLA             LCL           8
52 NORAL HYD POWER                     LCM              LCE       LCO   111111111
52 NORM HYD POWER                      LCM              LCL             AAAAAAAAA
52 EMERGENCY SELECT                    LCN              LCO             AAAAAAAAA
52 TPG EMER DOWN CONTROL SWITCH13ACJ   LCNA             LCN           7
52 TPG EMER DOWN HYD CONT VALVE13BGB   LCNB             LCN           7
52 EMER HYD POWER                      LCO              LCE     K LCM   AAAAAAAAA
52 POSITION IND-WARNING                LCP              LCN             111111111
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0000000001111111111222222222233333333334444444444555555555566666666677777777778
1234567890123456789012345678901234567890123456789012345678901234567890123456789
52 TPG UP AND LOCKED IND SWITCH13AED    LCPA            LCP          3
52 TPG NOT IN TRAIL SWITCH     13AEJ    LCPB            LCP          3
52 NORMAL SELECT                        LCR             LCM            AAAAAAAAA
52 LANDING GEAR HANDLE ASSY    13AAB    LCRA            LCR          A
52 LANDING GEAR PUSHROD ASSY   13AAD    LCRB            LCR          A
52 LG HANDLE LOCK SLIDE        13AAF    LCRC            LCR          A
52 LG LINK ASSY                13AAG    LCRD            LCR          A
52 LG LEVER BELLCRANK ASSY     13AAH    LCRE            LCR          A
52 TPG GEAR RETRACTION SWITCH  13ABE    LCRF            LCR          A
52 TPG GEAR EXTENSION SWITCH   13ABH    LCRG            LCR          A
52 TPG NORMAL HYD CONTROL VALVE13BGA    LCRH            LCR          A
52 LG BELLCRANK ASSY           13AAH    LDAE            LAD          A
52 MICRO SWITCH ACTUATOR       13AEC    LDAF            LAD          A
52 MLG RETRACTION SWITCH       13ABD    LDAG            LAD          A
52 MLG EXTENSION SWITCH        13ABJ    LDAH            LAD          A
52 CROSSWIND CENTERING SWITCH  13ABG    LDAJ            LAD          A
52 MLG NORMAL CONTROL VALVE    13CDA    LDAK            LAD          A
52 ATTENUATION                          LX              L              0100000100
52 ATTENUATION                          LXA             LA             0100000000
52 MLG FAILURE PROBABILITY              LXFP            LXFP         FAAAAAAAAA
52 MISSION SUPPORT                      M                              AAAAAAAAA
52 DEFENSE                              MA              M              0000000000
52 PENETRATION AIDS                     MAA             MA             2222222222
52 CONTROLS,INSTALL. ALE-24    76EAO    MAAA            MAA          A
52 DISPENSER INSTALL.  3EA     76EBO    MAAB            MAA          1
52 CONTROLS,INSTALL. ALE-20    76DAO    MAAC            MAA          A
52 FLARE EJECTOR       6EA     76DBO    MAAD            MAA          1
52 CONTROLS,INSTALL. ALE-25    76TAO    MAAG            MAA          A
52 CASE INSTALL.    2EA        76TBO    MAAH            MAA          1
52 EJECTOR RACK MECHANISM 2EA  76TCO    MAAJ            MAA          1
52 PYLON INSTALL.          2EA 76TDO    MAAK            MAA          1
52 ELECTRONIC WARFARE                   MAB             MA             6666666666
52 ELECTRONIC WARFARE                   MAB             MAA          F2222222222
52 AN/ALQ-117 SYSTEM           76ACO    MABA            MAB          1
52 AN/APR-98 RECEIVING SYSTEM  76ECO    MABB            MAB          1
52 AN/APR-14 RECEIVING SYSTEM  76FCO    MABC            MAB          1
52 AN/APS-54 RECEIVING SYSTEM  76GCO    MABD            MAB          1
52 AN/ALT-68 JAMMING TX SYST.  76HCO    MABE            MAB          1
52 AN/ALR-18 RX/TX SYSTEM      76JOO    MABF            MAB          1
52 AN/ALT-13V JAMMING TX       76KOO    MABG            MAB          1
52 AN/ALT-15 JAMMING TX        76LOO    MABH            MAB          1
52 AN/ALT-16 JAMMING TX        76MOO    MABJ            MAB          1
52 AN/ALT-28 JAMMING TX        76NOO    MABK            MAB          1
52 AN/ALR-20 RECEIVER SYSTEM   76WOO    MABL            MAB          1
52 AN/APR-25 INSTALLATION      76XOO    MABM            MAB          1
52 GUNS                                 MAC             MA             1111111111
52G M-3 GUN INSTALL.           74KCO    MACA            MAC          A
52H M-61GUN INSTALL.           74KDO    MACB            MAC          A
52G GUN COMPONENTS INSTALL.    74KEO    MACC            MAC          A
52 AMMUNITION SUPPLY           74KFO    MACD            MAC          A
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52G	ELECTRONIC RACK	74KCO	MACE	MAC	A	
52G	FCS OPERATOR EVAL	55CAO	MACXX	MAC	O	
52G	FCS OPERATOR EVAL	55CBO	MACXY	MAC	O	
52	GUN POSITIONING		MAD	MAC		AAAAAAAAA
52G	AUXILARY CENTRAL INSTALL.	74GBO	MADA	MAD	A	
52G	COMPUTER CENTRAL INSTALL.	74GCO	MADB	MAD	A	
52G	POWER CENTRAL INSTALL.	74GDO	MADC	MAD	A	
52G	SERVO CENTRAL INSTALL.	74GEO	MADD	MAD	A	
52G	CONTROL CENTRAL INSTALL.	74GFO	MADE	MAD	A	
52G	TRACK COMPUTER INSTALL.	74GRO	MADF	MAD	7	
52G	VOLTAGE REGULATOR	74GSO	MADG	MAD	A	
52G	TURRET INSTALL.	74JAO	MADH	MAD	A	
52	PRESSURE SUPPLY INSTALL	74KAO	MADJ	MAD	5	
52H	SYSTEM CONTROL	74LBO	MADK	MAD	A	
52H	TRACKING CONTROL	74LCO	MADL	MAD	A	
52H	COMPUTER	74LDO	MADM	MAD	A	
52H	GUN CONTROL	74LEA	MADN	MAD	A	
52H	PLATFORM	74LFC	MADP	MAD	A	
52H	TURRET INSTALL.	74LJO	MADQ	MAD	A	
52H	COMPONENT INSTALL.	74LKO	MADR	MAD	A	
52H	HYDRAULIC INSTALL.	74LLO	MADS	MAD	A	
52H	POWER SUPPLY	74LNO	MADT	MAD	A	
52G	TURRET INSTALL	74JBO	MADU	MAD	A	
52G	TURRET INSTALL HYD	74JCO	MADV	MAD	A	
52G	JUNCTION BOX	74JDO	MADVA	MAD	8	
52	CONTROL		MAE	MAD		AAAAAAAAA
52G	CONTROL	74GAO	MAEA	MAE	A	
52H	CONTROL, FIRE CONTROL HAND	74LMA	MAEB	MAE	A	
52H	GIMBAL ASSEMBLY	74LMC	MAEC	MAE	A	
52G	PANEL, CONTROL	74GXA	MAED	MAE	A	
52	RADAR		MAF	MAD		999999999
52G	SEARCH ANTENA	74GGO	MAFA	MAF	A	
52G	TRACK ANTENA	74GHO	MAFB	MAF	A	
52G	SEARCH TRANSMITTER	74GJO	MAFC	MAF	A	
52G	TRACK TRANSMITTER	74GKO	MAFD	MAF	A	
52G	MODULATOR, SEARCH	74GLA	MAFE	MAF	A	
52G	MODULATOR, TRACK	74GMA	MAFF	MAF	A	
52G	POWER SUPPLY, SEARCH	74GNA	MAFG	MAF	A	
52G	POWER SUPPLY, TRACK	74GPA	MAFH	MAF	A	
52G	SEARCH PULSE GENERATOR	74GQO	MAFJ	MAF	A	
52G	DIRECTIONAL COUPLER	74GTA	MAFK	MAF	A	
52G	PHASE SHIFTER	74GUA	MAFL	MAF	A	
52G	POWER SUPPLY, AUX.	74GWA	MAFM	MAF	A	
52G	ADAPTER, RADAR SET	74HCA	MAFN	MAF	1	
52H	TRANSMITTER	74LGO	MAFP	MAF	A	
52H	ANTENA	74LHO	MAFQ	MAF	A	
52H	PANEL, RADAR CONTROL	74LMF	MAFR	MAF	A	
52G	TV MONITOR		MAG	MAD		111111111
52G	OPTICAL SIGHT	74GYO	MAGA	MAG	A	
52G	TV CONTROL INSTALL.	74HAO	MAGB	MAG	A	

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52G INDICATOR, LINE OF SIGHT   74HDA   MAGC          MAG               2
52G RADAR INDICATOR                    MAH           MAD                         111111111
52H RADAR INDICATOR                    MAH           MAD                         AAAAAAAAA
52G AZIMUTH ELEVATION AND RANGE74HRO   MAHA          MAH               A
52H FIRE CONTROL COMPONENT     74LAO   MAHB          MAH               A
52  OFFENSE                            MB            M                           000000000
52  BOMB/MISSILE RELEASE               MC            MB                          888888888
52  EMERGENCY RELEASE                  MCA           MC        K MCB             AAAAAAAAA
52  EMERGENCY RELEASE                  MCA           MX                          AAAAAAAAA
52  SPECIAL WEAPONS EMERG. SYST75BAO   MCAA          MCA               A
52  EMERGENCY WEAPON REL. CONT.75CBO   MCAB          MCA               A
52  EMERGENCY WEAPON REL. COOP.75CDO   MCAC          MCA               A
52  VALVE, BOMB DOOR ALTERNATE 45CEA   MCAX          MCA               A
52  NORMAL RELEASE                     MCB           MC          MCA             111111111
52  PANEL INSTALLATION         75AAO   MCBA          MCB               A
52  WEAPON CONT. AND TESTOR    75ABO   MCBB          MCB               1
52  RELAY INSTALL.             75ACO   MCBC          MCB               A
52  BOMB CONTROL SWITCH        75ADA   MCBD          MCB               A
52  BOMB RELEASE DIODE RECT.   75AEO   MCBE          MCB               A
52  BOMB DOOR CONTROL INSTALL. 75CEO   MCBF          MCB               A
52  CODED SWITCH SET           75AHO   MCBG          MCB               0
52  BNS                                MCC           MCB                         666666666
52  CONTROL,BOMBING            73CAD   MCCA          MCC               A
52  PANEL,TEMP. SENSING        73CAP   MCCB          MCC               2
52  BOMBING COMPUTER UNITS     73CCO   MCCC          MCC               A
52  NAVIGATORS DISPLAY RADAR   73CJO   MCCD          MCC               A
52  GENERATOR, AZIMUTH CROSS   73CKQ   MCCE          MCC               4
52  AMPLIFIER MARKER MIXING    73CLF   MCCF          MCC               4
52  GENERATOR, RANGE CROSS     73CLG   MCCG          MCC               4
52  PANEL ASSEMBLY,BOMB. SCOP. 73GAA   MCCH          MCC               0
52  ANGLE OF ATTACK            73CPO   MCCJ          MCC               2
52  CHASSIS ASSY               73CH3   MCCK          MCC               2
52  CLIP-IN RACK ASSEMBLY      75CAO   MCR           MC                A
52  BOMB RACK MANUAL LOCKING   75CCO   MCS           MC                A
52  CLUSTER BOMB RACK          75EAO   MCT           MC                A
52  BODY HYDRAULIC INSTALL.    45CFO   MCXX          MD                A
52  CHECK VALVE RETURN         45CFA   MCXXA         MD                2
52  CHECK VALVE BYPASS         45CFB   MCXXB         MD                2
52  RELIEF VALVE, PRESSURE     45CFC   MCXXC         MD                3
52  MOTOR PUMP ASSEMBLY        45CFD   MCXXD         MD                A
52  SWITCH PRESSURE            45CFE   MCXXE         MD                A
52  DISCONNECT FITTING         45CFF   MCXXF         MD                A
52  AGM-28/69 WEAPON SYSTEM            MD            MB                          222222222
52  AIRBORNE OPERATIONAL EQUIP.95000   MDM           MD                A
52  AGM-69A PRESSURIZATION     45EOO   MDXY          MD                A
52  TERRAIN AVOIDANCE                  ME            MB                          111111111
52  NORMALIZATION UNIT RT      73CF1   MEA           ME                A
52  SERVO,PILOTS CLEARANCE     73CHG   MEAA          ME                A
52  SERVO,NAVIGATION CLEAR.    73CHH   MEAB          ME                A
52  GENERATOR,ALTITUDE TIMING  73CLC   MEAC          ME                A
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52  CONTROL, TERRAIN RADAR          73CLQ   MEAD            ME          A
52  PILOTS AND COPILOTS DISPLAY     73CMO   MEAE            ME          A
52  PILOTS AND COPILOTS DISPLAY     73CNO   MEAF            MF          A
52  ELECTRO-OPTICAL VIEWING         73JAO   MEAG            ME          A
52  AMPLITUDE EQUALIZER             73CF2   MEB             ME          A
52  POWER SUPPLY                    73CF3   MEC             ME          A
52  STC GENERATOR                   73CF4   MED             ME          A
52  PHASE EQUALIZER                 73CF5   MEE             ME          A
52  PRE. AMP. TA-1 SUM              73CF6   MEF             ME          A
52  PRE. AMP. TA-1 DIFF             73CF7   MEG             ME          A
52  CONTROL,TERRAIN TEST            73CGJ   MEH             ME          0
52  REINST. TERRAIN COMPUTER        73CGP   MEJ             ME          A
52  DETECTOR FAILURE WARNING        73CGQ   MEK             ME          0
52  GENERATOR, I/R QUAD             73CGR   MEL             ME          A
52  GENERATOR,BETA                  73CGS   MEM             ME          A
52  AMP., PROFILE VIDEO             73CGT   MEN             ME          A
52  AMP., PLAN VIDEO                73CGU   MEP             MF          A
52  POWER SUPPLY                    73CGV   MEQ             MF          A
52  GENERATOR, FAILURE WARNING      73CGW   MER             ME          0
52  ELECTRONIC GAMMA ASSEM          73CGX   MES             MF          A
52  NORMALIZATION UNIT RTC          73CGY   MET             ME          A
52  CARD ASSEMBLY CIRCUIT           73CGZ   MEU             ME          A
52  CONTACT ASSEMBLY                73CG1   MEV             ME          A
52  RECONN.                                 MF              M                   000000000
52  PHOTO                                   MG              MF                  888888888
52  K-17C/D CAMERA INSTALL.         77AAO   MGA             MG          A
52  K-38    CAMERA INSTALL.         77ABO   MGB             MG          A
52  CAMERA COMPARTMENT              77ACO   MGC             MG          1
52  MAGAZINE, A-88                  77ADA   MGD             MG          A
52  CAMERA DOOR                     77BAO   MGE             MG          A
52  CAMERA CONTROL                  77CAA   MGF             MG          A
52  CAMERA INTERVALOMETER           77CBO   MGG             MG          3
52  ELECTRONIC                              MH              MF                  222222222
52  KS-32A RECORDING CAMERA         73HCO   MHA             MH          3
52  EXPOSURE FREQUENCY CONTR.       73HDO   MHB             MH          1
52  CONTROL, CAMERA                 73CAN   MHC             MH          3
52  ELECTRO OPTICAL VIEWING         77DOO   MHD             MH          3
52  FLIR SCANNER                    77EOO   MHE             MH          3
52  OPTICAL FILTER                  77FOO   MHF             MH          0
52  RELAY, CROSSHAIR CONTR.         77GOO   MHG             MH          1
52  EVS AIRSPEED TRANSDUCER         77HOO   MHH             MH          1
52  DATA PRESENTATION GROUP         77JOO   MHJ             MH          3
52  EMERGENCY MISSLE RELEASE                MX              MB      X           AAAAAAAAA
52  MISSLE FIRE WARNING                     MXA             MX                  555555555
52   LIGHT                          49BBA   MXAA            MXA         1
52   LIGHT                          49BBB   MXAB            MXA         1
52   BOX FIRE DET CONTROL           49BBC   MXAC            MXA         A
52  AGM 69A ENVIR AIR DIST                  MZA             MB                  111111111
52   WING INSTALLATION DUCT         41JAA   MZAA            MZA         1
52   BOMB BAY DUCT                  41JAB   MZAB            MZA         1
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52    FWD WHEEL WELL DUCT          41JAC    MZAC              MZA          1
52    RAM AIR DUCT FWD             41JAD    MZAD              MZA          2
52    RAM AIR SCOOP RH WING        41JAE    MZAE              MZA          2
52    AVIONICS FWD WELL DUCT       41JAF    MZAF              MZA          1
52    ENVIRO CONTROL UNIT FWD      41JAG    MZAG              MZA          1
52    AIR CONDITIONER              41JAH    MZAH              MZA          A
52  EVS ENVIROMENT                          MZB               MAB            111111111
52  EVS WINDOW WASH                         MZBA              MZB            002000000
52    WASH SYS ASSY                49FAA    MZBAA             MZBA         A
52    TANK ASSY                    49FAB    MZBAB             MZBA         1
52    PUMP AND MOTOR ASSY          49FAC    MZBAC             MZBA         A
52    SOLENOID VALVE               49FAD    MZBAD             MZBA         A
52    EVS WINDOW WASH SYS INST     49FAE    MZBAE             MZBA         2
52    NOZZLE INSTALLATION          49FAF    MZBAF             MZBA         2
52    PURGE TUBE INSTAL            49FAG    MZBAG             MZBA         1
52    PRESSURE REGULATION          49FAH    MZBAH             MZBA         2
52    THERMOSWITCH                 49FAJ    MZBAJ             MZBA         1
52  STV ENVIROMENT CONTROL                  MZBB              MZB            222222222
52    STV DUCT INSTALLATION        41KAD    MZBBA             MZBB         1
52    STV HEATER ASSY              41KAE    MZBBE             MZBB         2
52    WINDOW HEATER CONTROLLER     41KAF    MZBBF             MZBB         2
52    AIR DUCT HEATER CONTROLLER   41KAG    MZBBG             MZBB         1
52  FLIR ENVIROMENT CONTROL                 MZBC              MZB            222222222
52    FLIR DUCT INSTALLATION       41KAA    MZBCA             MZBC         1
52    FLIR HEATER ASSY             41KAB    MZBCB             MZBC         2
52    SIG PROCESS DUCT INSTAL.     41KAC    MZBCC             MZBC         2
52  FCM EQUIPMENT COOLING                   MZBZ              MAB            111111111
52    DUCT ASSY                    41EBE    MZBZE             MZBZ         1
52    FCM COOLING CHECK VALVE      41EBJ    MZBZJ             MZBZ         1
52  AFT ELECT EQUIP COOLING                 MZC               MAB            111111111
52  AFT ELEC COOLING                        MZC               MZCA           111111111
52  AFT ELEC COOLING                        MZC               MZCB           111111111
52  ARC 58 COOLING                          MZCA              CAH            111111111
52    BLOWER ASSY                  41EBK    MZCAK             MZCA         A
52  CAMERA COOLING                          MZCB              MG             111111111
52    HEATER & DEFROST BLOWER      41EBM    MZCBM             MZCB         1
52    DUCT ASSY                    41EBE    MZCZE             MZC          1
52H FIRE CONTROL SYS COOLING                MZZ               M              S000000000
52H FIRE CONTROL SYS COOLING                MZZ               MAD            111111111
52H CONDITIONED AIR                         MZZA              MZZ            033333330
52H  AIR CONDITIONING PACKAGE    41FAA    MZZAA             MZZA         A
52H  HEAT EXCHANGER RAM AIR      41FAE    MZZAB             MZZA         A
52H  TURBINE COMPRESSOR          41FAS    MZZAC             MZZA         A
52H HYDRAULIC DRIVE COMPRESSOR              MZZB              MZZA           888888888
52H  MODULATE : SHUTOFF VALVE    41FAB    MZZBB             MZZB         B
52H  HYDRAULIC MOTOR             41FAC    MZZBC             MZZB         A
52H  CENTRIFUGAL COMPRESSOR      41FAE    MZZBE             MZZB         A
52H ELECTRONIC CONTROL                      MZZC              MZZA           AAAAAAAAA
52H ELECTRONIC CONTROL                      MZZC              MZZB           FAAAAAAAAA
52H  PRESSURE TRANSDUCER         41FAG    MZZCG             MZZC         A
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52H  TEMPERATURE CONTROLLER      41FAH   MZZCH          MZZC          A
52H  RAM AIR INLET                       MZZD           MZBZ          F111111111
52H  RAM AIR INLET                       MZZD           MZC             AAAAAAAAA
52H  RAM AIR INLET                       MZZD           MZZA            AAAAAAAAA
52H  RAM AIR COOLING DUCT        41FAQ   MZZDQ          MZZD          1
52H  GROUND AIR COOLING                  MZZF           MZZ             200000002
52H  GRND AIR SHUTOFF VALVE      41FAJ   MZZEA          MZZE          A
52H  GRND AIR BLOWER             41FAL   MZZEB          MZZF          5
52H  RAM AIR AXIAL FAN           41FAR   MZZEC          MZZF          2
52H  AIR COND DIST DUCT          41FAP   MZZZA          MZZ           1
52H  FREQ CONVT TEMP CONT VALVE  41FAM   MZZZB          MZZ           2
52G GEN | 1 AC POWER DIST                UAB            BAW            FAAAAAAAAA
52  GEN NO 1 PWR DIST                    UAB            BFXY            111111111
52  GEN |1 POWER DIST                    UAB            BLB            FAAAAAAAAA
52  GEN |1                               UAB            BLD            F555555555
52  GEN | 1                             UAB            BLF            F111111111
52  GEN NO 1 PWR DIST                    UAB            BLXX           S05550A580
52  GEN | 1  POWER DIST                  UAB            BQX             AAAAAAAAA
52  GEN | 1 POWER DIST                   UAB            BRF            F111111111
52  GEN |1                               UAB            BRH            F111111111
52  GEN |1 PWR DIST                      UAB            CAH             AAAAAAAAA
52  GEN |1 PWR DIST                      UAB            CAHC           FAAAAAAAAA
52 GEN 1 PWR BUS                         UAB            DAU             AAAAAAAAA
52  GEN NO1 PWR DIST                     UAB            EAAF            111111111
52  GEN NO1 PWR DIST.                    UAB            EAAJ            111111111
52  GEN NO1 POWER DIST                   UAB            EA3B            111111111
52  GEN NO 1 PWR DIST                    UAB            FAA             222222222
52  GEN NO 1 POWER DIST                  UAB            FBHZ            AAAAAAAAA
52  GEN NO 1 POWER DIST                  UAB            FBKB            AAAAAAAAA
52  GEN NO 1 POWER DIST                  UAB            FBKF           FAAAAAAAAA
52  GEN NO 1 PWR DIST                    UAB            FCN             AAAAAAAAA
52  GEN NO 1 PWR DIST                    UAB            FCQ             111111111
52G GEN |1 PWR DIST                      UAB            MAB            FAAAAAAAAA
52  GEN |1 PWR DIST                      UAB            MAC             AAAAAAAAA
52H GEN |1 PWR DIST                      UAB            MD              AAAAAAAAA
52  GEN |1 PWR DIST                      UAB            MG              AAAAAAAAA
52  GEN NO 1 PWR DIST                    UAB            MZC             AAAAAAAAA
52H GEN NO 1 PWR DIST                    UAB            MZZC            0AAAAAAA0
52H NO1 GEN PWR DIST.                    UAB            MZZE           A0000C000A
52  AC POWER AFT AC PWR BOX              UAB            UHFL            AAAAAAAAA
52  GEN NO 1 PWR DISTRIBUTION            UAB            UHFR            AAAAAAAAA
52G  BOX ASSY LEFT WING AC PWR 42DAE     UABAE          UAB           1
52G GEN | 7 AC POWER DIST                UAC            BAW            F555555555
52  GEN NO 7 PWR DIST                    UAC            BFXY            111111111
52  GEN | 7                              UAC            BLF             111111111
52  GEN |7 POWER DIST                    UAC            BRB            FAAAAAAAAA
52  GEN |7 POWER DIST                    UAC            BRD            F111111111
52  GEN | 7                              UAC            BRF            F111111111
52  GEN |7                               UAC            BRH            F111111111
52  GEN NO7 PWR DIST.                    UAC            EAAF            111111111
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52	GEN NO7 POWER DIST		UAC	EABB	111111111
52	GEN NO 7 PWR DIST		UAC	FAA	22222222
52	GEN NO 7 POWER DIST		UAC	FBKB	AAAAAAAA
52	GEN |7 PWR DIST		UAC	MAB	AAAAAAAA
52H	GEN |7 PWR DIST		UAC	MD	AAAAAAAA
52G	BOX ASSY RGHT WING AC PWR	42DAF	UACAF	UAC	1
52	GEN |5 AC POWER DISTR		UAE	BAMF	AAAAAAAAA
52	GEN |5 AC POWER DISTR		UAE	BAMP	AAAAAAAAA
52	GEN NO5 POWER DIST.		UAE	BAMR	AAAAAAAAA
52H	GEN | 5 POWER DISTRIBUTION		UAE	BAR	AAAAAAAAA
52G	GEN | 5 AC POWER DIST		UAF	BAW	F555555555
52	GEN NO 5 PWR DIST		UAE	BFXY	111111111
52	GEN NO 5 DIST		UAE	BLXX	111111111
52	GEN | 5 POWER DIST		UAE	BQX	AAAAAAAAA
52	GEN |5		UAE	BRD	F111111111
52	GEN |5		UAE	BRH	F111111111
52	GEN | 5		UAE	BRK	F111111111
52	GEN |5 PWR DIST		UAE	CLA	AAAAAAAAA
52	GEN 5 PWR DIST		UAE	DBN	AAAAAAAAA
52	GEN 5 PWR DIST		UAE	DCG	AAAAAAAAA
52	GEN 5 PWR DIST		UAE	DCM	FAAAAAAAAA
52	GEN NO5/RH LOAD CTR DIST		UAE	EAAA	111111111
52	GEN NO5/RH LOAD CTR DIST		UAE	EAAF	111111111
52	GEN NO5/RH LOAD CTR DIST		UAE	EAAJ	111111111
52	GEN NO5/RH LOAD CTR DIST		UAE	EABC	111111111
52	GEN NO5/RH LOAD CTR DIST		UAF	EABF	111111111
52	GEN NO5/RH LOAD CTR DIST		UAE	EBL	111111111
52	GEN NO5 PWR DIST/R.LOAD CTR		UAE	ECAD	FAAAAAAAAA
52	GEN NO5/LEFT LOAD CTR DIST		UAE	ECAM	FAAAAAAAAA
52	GEN NO5/LEFT LOAD CTR DIST		UAE	ECAN	AAAAAAAAA
52	GEN NO5/RH LOAD CTR DIST		UAE	EDBC	111111111
52	GEN NO 5/RL LOAD CTR DIST		UAE	EFAJ	AAAAAAAAA
52	GEN |5 PWR DIST		UAE	MAA	FAAAAAAAAA
52	GEN |5 PWR DIST		UAE	MAB	AAAAAAAAA
52	GEN |5 PWR DIST		UAE	MD	AAAAAAAAA
52	GEN |5 PWR DIST		UAE	MH	AAAAAAAAA
52	NO5 GEN/RH LOAD CTR PWR DIS		UAE	MZA	AAAAAAAAA
52	GEN NO 5 PWR DISTRIBUTION		UAE	UAFA	AAAAAAAAA
52	28VAC STA 173		UAEA	RUHAJ	AAAAAAAAA
52G	CB GEN DECOUPLE RH LOAD	42CAE	UAEAE	UAE	A
52	PANEL ASSY CO-PILOTS CB	42DBK	UAEBK	UAE	1
52	PANEL ASSY RGHT ELEC EQ	42DBY	UAEBY	UAE	1
52	PANEL ASSY DECM OVRHD	42DB3	UAEBZC	UAF	1
52G	GEN | 3 AC POWER DIST		UAK	BAW	F555555555
52	GEN NO 3 PWR DIST		UAK	BFXY	111111111
52	GEN |3 POWER DIST		UAK	BLD	555555555
52	GEN | 3 POWER DIST		UAK	BLF	111111111
52	GEN | 3		UAK	BRK	F111111111
52	GEN |3 PWR DIST		UAK	CBKC	AAAAAAAAA
52	GEN |3 PWR DIST		UAK	CM	AAAAAAAAA

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52 GEN 3 PWR DIST                     UAK             DAK             AAAAAAAAA
52 GEN 3 PWR DIST                     UAK             DAT            FAAAAAAAAA
52 GEN 3 PWR DIST                     UAK             DBL             AAAAAAAAA
52 GEN 3 PWR DIST                     UAK             DCL             AAAAAAAAA
52 GEN 3 PWR DIST                     UAK             DCQ             AAAAAAAAA
52   GEN NO3/LH LOAD CTR DIST         UAK             EAAA            111111111
52   GEN NO3/LH LOAD CTR DIST         UAK             EAAJ            111111111
52   GEN NO3/LH LOAD CTR DIST         UAK             EABC            111111111
52   GEN NO3/LH LOAD CTR DIST         UAK             EABD           F111111111
52   GEN NO3/LH LOAD CTR DIST         UAK             EABE            AAAAAAAAA
52   GEN NO3/LH LOAD CTR DIST         UAK             EABG           F111111111
52   GEN NO3/LH LOAD CTR DIST         UAK             EBL             111111111
52   NO3 GEN PWR DIST/L.LOAD CTR      UAK             ECAC            AAAAAAAAA
52   GEN NO3/LH LOAD CTR DIST         UAK             ECAP           FAAAAAAAAA
52   GEN NO3/LH LOAD CTR DIST         UAK             EDBC            111111111
52   NO 3 GEN PWR DIST L LOAD CT      UAK             EFAD            AAAAAAAAA
52   GEN NO 3 PWR DIST                UAK             FBJA            AAAAAAAAA
52   GEN NO 3 PWR DIST                UAK             FBSB           FAAAAAAAAA
52   GEN NO 3 PWR DIST                UAK             FCKA            AAAAAAAAA
52   GEN NO 3 PWR DIST                UAK             FCSB           FAAAAAAAAA
52   GEN NO 3 PWR DIST                UAK             FDJ             AAAAAAAAA
52   GEN 15 PWR DIST                  UAK             MAB             AAAAAAAAA
52   GEN 15 PWR DIST                  UAK             MH              AAAAAAAAA
52   GEN NO 3 PWR DISTRIBUTION        UAK             UAKA            AAAAAAAAA
52   GEN NO 3 PWR DISTRIBUTION        UAK             UAP             AAAAAAAAA
52   28VAC                            UAKA           LUHAJ            AAAAAAAAA
526 CB GEN DISENGAGE LH LOAD   42CAF  UAKAF           UAK         A
52   PANEL ASSY,PILOTS CB      42DBD  UAKBD           UAK         1
52   PANEL ASSY LEFT LOAD CENT 42DBQ  UAKBQ           UAK         1
52   BNS PWR DIST                     UAP             CBHA            AAAAAAAAA
52   BNS PWR DIST                     UAP             CZA            FAAAAAAAAA
52   BNS PWR DIST                     UAP             CZB            FAAAAAAAAA
52   BNS PWR DIST                     UAP             EAAF            111111111
52   BNS PWR DIST                     UAP             EAAJ            111111111
52   BNS PWR DIST                     UAP             EBL             111111111
52   BNS POWER DIST                   UAP             ECAP            AAAAAAAAA
52    PANEL ASSY BNS CB        42DBT  UAPBT           UAP         1
52   FCS EXT PWR                      UAQ             UAB             000000000
52    POWER BOX,FCS EXT PWR    42ECA  UAQCA           UAQ         A
52    RECEPICLE,FCS EXT PWR    42ECB  UAQCB           UAQ         A
52    RELAY                    42ECC  UAQCC           UAQ         A
52    RELAY PHASE SENSING      42ECD  UAQCD           UAQ         A
52   BNS EXTERNAL AC PWR              UAR             UAP             000000000
52    RECEPTACLE,BNS EXT PWR   42EBA  UARBA           UAR         A
52    PANEL ASSY RELAY         42EBB  UARBB           UAR         A
52    PNNEL ASSY BNS GND COOL  42EBC  UARBC           UAR         A
52    RELAY                    42EBD  UARBD           UAR         A
52    RELAY,PHASE SENSING      42EBE  UARBE           UAR         A
52   BUS TIE LOOP                     UAS             UAB        UASB 111111111
52   BUS TIE LOOP                     UAS             UAC        UASD 111111111
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52  BUS TIE LOOP                              UAS          UAE       UASF  111111111
52  BUS TIE LOOP                              UAS          UAK       UASH  111111111
52  BUS TIE CB NO.1                           UASA         UAZ     4 UX    AAAAAAAAA
52   RELAY,AC TYPE 1                 42DCA    UASACA       UASA            A
52  GEN CB NO.1                               UASB         UAB     K UAS   AAAAAAAAA
52  GEN CB NO.1                               UASB         UASA            AAAAAAAAA
52   RELAY,AC TYPE 1                 42DCA    UASBCA       UASB            A
52  BUS TIE CB NO.7                           UASC         UAZ     4 UX    AAAAAAAAA
52   RELAY,AC TYPE 1                 42DCA    UASCCA       UASC            A
52   CONTROL,AUTO-PARALLEL           42CCP    UASCP        UAS             A
52  GEN CB NO.7                               UASD         UAC     K UAS   AAAAAAAAA
52  GEN CB NO.7                               UASD         UASC            AAAAAAAAA
52   RELAY,AC TYPE 1                 42DCA    UASDCA       UASD            A
52  BUS TIE CB NO.5                           UASE         UAZ     4 UX    AAAAAAAAA
52   RELAY,AC TYPE 1                 42DCA    UASECA       UASE            A
52  GEN CB NO.5                               UASF         UAE     K UAS   AAAAAAAAA
52  GEN CB NO.5                               UASF         UASE            AAAAAAAAA
52   RELAY,AC TYPE 1                 42DCA    UASFCA       UASF            A
52  BUS TIE CB NO.3                           UASG         UAZ     4 UX    AAAAAAAAA
52   RELAY,AC TYPE 1                 42DCA    UASGCA       UAS             A
52 NO 3 GEN BUS                               UASH         EFAE            FAAAAAAAAA
52  GEN CB NO.7                               UASH         UAK     K UAS   AAAAAAAAA
52  GEN CB NO.7                               UASH         UASG            AAAAAAAAA
52  RELAY,AC TYPE 1                 42DCA    UASHCA       UASH            A
52  GENERATOR NO.1                            UAT          UASB            AAAAAAAAA
52  GENERATOR NO.1                            UAT          UATB            FAAAAAAAAA
52  GENERATOR NO.1                            UAT          UATC            FAAAAAAAAA
52  GENERATOR NO.1                            UAT          UATD            FAAAAAAAAA
52  GENERATOR NO 1                            UAT          UDD             AAAAAAAAA
52  GENERATOR NO 1                            UAT          UDF             SAAAAAAAAA
52  GENERATOR NO 1                            UAT          UDFA            FAAAAAAAAA
52  GENERATOR NO 1                            UAT          UDFB            FAAAAAAAAA
52  GENERATOR NO 1                            UAT          UDFC            FAAAAAAAAA
52  CONSTANT SPEED DRIVE NO.1                 UATA         UAT             AAAAAAAAA
52   GENERATOR ASSEMBLY             42BAA    UATAA        UAT             A
52   DRIVE,CONSTANT SPEED           42BBA    UATABA       UATA            A
52G  SHAFT,INTERCONNECTING          42BBB    UATABB       UATA            A
52   FILTER,DRIVE UNIT              42BB2    UATABBB      UATA            1
52H  PLATE,CSD QUICK ATTACH         42BB3    UATABBC      UATA            1
52H  LOCKRING CSD QUICK ATTACH      42BB4    UATABBD      UATA            1
52G  FLANGE,INPUT MOUNT             42BB5    UATABBE      UATA            0
52G  ADAPTER ASSY ALT COOLING       42BB6    UATABBF      UATA            1
52G  SHAFT,POWER INPUT DRIVE        42BBE    UATABE       UATA            A
52G  HOUSING,GEAR AND ACCESS.       42BBF    UATABF       UATA            A
52   GOVERNOR,BASIC                 42BBG    UATABG       UATA            A
52   GOVERNOR,LIMIT                 42BBH    UATABH       UATA            A
52G  VALVE,RECIRCULATING            42BBM    UATABM       UATA            1
52   TANK,OIL                       42BBR    UATABR       UATA            0
52   DUCT,OIL COOL AIR INLET        42BBT    UATABT       UATA            1
52   DUCT,OIL COOL AIR EXHAUST      42BBU    UATABU       UATA            1
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52   COOLER,OIL                  42BBV   UATABV          UATA          1
52   VALVE,OIL TEMP CONTROL      42BBW   UATABW          UATA          1
52   FILTER,RETURN OIL           42BBX   UATABX          UATA          1
52   REGULATOR,AIR PRESS         42BBY   UATABY          UATA          1
52   SWITCH,PRESSURE             42BBZ   UATABZ          UATA          1
52G  GEARBOX ADAPTER             42BCH   UATACH          UATA          1
52   CAP,GEN AIR INLET COOLING   42BAH   UATAH           UAT           0
52   DUCT,EXHAUSTCOLLECT UPPER   42BAJ   UATAJ           UAT           1
52   DUCT,EXHAUSTCOLLECT LOWER   42BAK   UATAK           UAT           1
52H  PLATE,GEN QUICK ATTACH      42BAM   UATAM           UAT           1
52H  LOCK RING                   42BAN   UATAN           UAT           1
52   VOLTAGE REGULATION NO.1             UATB            UAT             AAAAAAAAA
52   REGULATOR,VOLTAGE           42CCB   UATBCB          UATB          A
52   GENERATOR CONTROL/PROTECT           UATC            UATA            AAAAAAAAA
52   TRNSF,DIFF CURRENT          42CCE   UATCCE          UATC          A
52   TRNSF,OVER/UNDER EXCITE     42CCG   UATCCG          UATC          A
52   CONTROLLER,FREQ/LOAD        42CCH   UATCCH          UATC          A
52   REFERENCE UNIT ASSY,FREQ    42CCJ   UATCCJ          UATC          A
52   PACKAGE,CURRENT CONTROL     42CCK   UATCCK          UATC          A
52   RELAY,DIFF REACT PROTECT    42CCN   UATCCN          UATC          A
52   GEN NO.1 INDICATIONS                UATD            UATE            AAAAAAAAA
52   INDICATOR ASSY,TRIP SIG     42CCM   UATDCM          UATD          1
52G  CONTROLLER,MASTER CAUTION   49DDA   UATDDA          UATD          2
52H  CONTROLLER MASTER CAUT NR2  49DDB   UATDDB          UATD          2
52G  CONTROLLER,MAG CONTACTOR    49DDC   UATDDC          UATD          2
52   LIGHT,MASTER CAUTION        49DDD   UATDDD          UATD          2
52G  LIGHT,CIRCUIT BKR OPEN      49DDE   UATDDE          UATD          2
52H  CONTROLLER,MASTER           49DEA   UATDEA          UATD          2
52H  CONTROLLER,E211 MAG CAU LT  49DEF   UATDEF          UATD          2
52H  RELAY,CENTRAL CAUTION PNL   49DEG   UATDEG          UATD          2
52H  PANEL,CENTRAL CAUTION       49DEH   UATDEH          UATD          2
52H  INDICATOR,CENTRAL CAUTION   49DEJ   UATDEJ          UATD          2
52   FREQUENCY METER             51CPD   UATDPD          UATD          1
52   VOLTMETER                   51CPE   UATDPE          UATD          1
52   AMMETER                     51CPH   UATDPH          UATD          1
52   GENERATOR NO.1 CONTROL              UATE            UAT             AAAAAAAAA
52   PANEL,A-C CONTROL           42CAA   UATEAA          UATE          1
52   PANEL ASSY,GEN CONTROL      42CCA   UATECA          UATE          1
52   GENERATOR NO.7                      UAU             UASD            AAAAAAAAA
52   GENERATOR NO.7                      UAU             UAUB           FAAAAAAAAA
52   GENERATOR NO.7                      UAU             UAUC           FAAAAAAAAA
52   GENERATOR NO.7                      UAU             UAUD           FAAAAAAAAA
52G  GENERATOR NO 7                      UAU             UDC            S444444444
52G  GENERATOR NO 7                      UAU             UDG            FAAAAAAAAA
52H  GENERATOR NO 7                      UAU             UDG             AAAAAAAAA
52G  GENERATOR NO 7                      UAU             UDS            FAAAAAAAAA
52   CONSTANT SPEED DRIVE NO.7           UAUA            UAU             AAAAAAAAA
52   GENERATOR ASSEMBLY          42BAA   UAUAA           UAU           A
52   DRIVE,CONSTANT SPEED        42BBA   UAUABA          UAUA          A
52G  SHAFT,INTERCONNETING        42BBB   UAUABB          UAUA          A
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52   FILTER,DRIVE UNIT              42BE2   UAUABBB         UAUA          1
52H  PLATE,CSD QUICK ATTACH         42BB3   UAUABBC         UAUA          1
52H  LOCKRING CSD QUICK ATTACH      42BB4   UAUABBD         UAUA          1
52G  FLANGE,INPUT MOUNT             42BB5   UAUABBE         UAUA          0
52G  ADAPTER ASSY ALT COOLING       42BB6   UAUABBF         UAUA          1
52G  SHAFT,POWER INPUT DRIVE        42BBE   UAUABE          UAUA          A
52G  HOUSING,GEAR AND ACCESS.       42BBF   UAUABF          UAUA          A
52   GOVERNOR,BASIC                 42BBG   UAUABG          UAUA          A
52   GOVERNOR,LIMIT                 42BBH   UAUABH          UAUA          A
52G  VALVE,RECIRCULATING            42BBM   UAUABM          UAUA          1
52   TANK,OIL                       42BBR   UAUABR          UAUA          0
52   DUCT,OIL COOL AIR INLET        42BBT   UAUABT          UAUA          1
52   DUCT,OIL COOL AIR EXHAUST      42BBU   UAUABU          UAUA          1
52   COOLER,OIL                     42BBV   UAUABV          UAUA          1
52   VALVE,OIL TEMP CONTROL         42BBW   UAUABW          UAUA          1
52   FILTER,RETURN OIL              42BBX   UAUABX          UAUA          1
52   REGULATOR,AIR PRESS            42BBY   UAUABY          UAUA          1
52   SWITCH,PRESSURE                42BBZ   UAUABZ          UAUA          1
52G  GEARBOX ADAPTER                42BCH   UAUACH          UAUA          1
52   CAP,GEN AIR INLET COOLING      42BAH   UAUAH           UAU           0
52   DUCT,EXHAUSTCOLLECT UPPER      42BAJ   UAUAJ           UAU           1
52   DUCT,EXHAUSTCOLLECT LOWER      42BAK   UAUAK           UAU           1
52H  PLATE,GEN QUICK ATTACH         42BAM   UAUAM           UAU           1
52H  LOCK RING                      42BAN   UAUAN           UAU           1
52   VOLTAGE REGULATION NO.7                UAUB            UAU             AAAAAAAAA
52   REGULATOR,VOLTAGE              42CCB   UAUBCB          UAUB          A
52   GENERATOR CONTROL/PROTECT              UAUC            UAUA            AAAAAAAAA
52   TRNSF,DIFF CURRENT             42CCE   UAUCCE          UAUC          A
52   TRNSF,OVER/UNDER EXCITE        42CCG   UAUCCG          UAUC          A
52   CONTROLLER,FREQ/LOAD           42CCH   UAUCCH          UAUC          A
52   REFERENCE UNIT ASSY,FREQ       42CCJ   UAUCCJ          UAUC          A
52   PACKAGE,CURRENT CONTROL        42CCK   UAUCCK          UAUC          A
52   RELAY,DIFF REACT PROTECT       42CCN   UAUCCN          UAUC          A
52   GEN NO.7 INDICATIONS                   UAUD            UAUF            AAAAAAAAA
52   INDICATOR ASSY,TRIP SIG        42CCM   UAUDCM          UAUD          1
52G  CONTROLLER,MASTER CAUTION      49DDA   UAUDDA          UAUD          2
52H  CONTROLLER MASTER CAUT NR2     49DDB   UAUDDB          UAUD          2
52G  CONTROLLER,MAG CONTACTOR       49DDC   UAUDDC          UAUD          2
52   LIGHT,MASTER CAUTION           49DDD   UAUDDD          UAUD          2
52G  LIGHT,CIRCUIT BKR OPEN         49DDE   UAUDDE          UAUD          2
52H  CONTROLLER,MASTER              49DEA   UAUDEA          UAUD          2
52H  CONTROLLER,E211 MAG CAU LT     49DEF   UAUDEF          UAUD          2
52H  RELAY,CENTRAL CAUTION PNL      49DEG   UAUDEG          UAUD          2
52H  PANEL,CENTRAL CAUTION          49DEH   UAUDEH          UAUD          2
52H  INDICATOR,CENTRAL CAUTION      49DEJ   UAUDEJ          UAUD          2
52   FREQUENCY METER                51CPD   UAUDPD          UAUD          1
52   VOLTMETER                      51CPE   UAUDPE          UAUD          1
52   AMMETER                        51CPH   UAUDPH          UAUD          1
52   GENERATOR NO.7 CONTROL                 UAUE            UAU             AAAAAAAAA
52   PANEL,A-C CONTROL              42CAA   UAUEAA          UAUE          1
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52    PANEL ASSY,GEN CONTROL      42CCA   UAUECA          UAUE          1
52   GENERATOR NO.5                       UAV             UASF            AAAAAAAAA
52   GENERATOR NO.5                       UAV             UAVB           FAAAAAAAAA
52   GENERATOR NO.5                       UAV             UAVC           FAAAAAAAAA
52   GENERATOR NO.5                       UAV             UAVD           FAAAAAAAAA
52H GENERATOR NO 5                        UAV             UDK            FAAAAAAAAA
52   GENERATOR NO 5                       UAV             UDR             AAAAAAAAA
52   CONSTANT SPEED DRIVE NO.             UAVA            UAV             AAAAAAAAA
52    GENERATOR ASSEMBLY         42BAA   UAVAA           UAV           A
52    DRIVE,CONSTANT SPEED       42BBA   UAVABA          UAVA          A
52G   SHAFT,INTERCONNETING       42BBB   UAVABB          UAVA          A
52    FILTER,DRIVE UNIT          42BB2   UAVABBB         UAVA          1
52H   PLATE,CSD QUICK ATTACH     42BB3   UAVABBC         UAVA          1
52H   LOCKRING CSD QUICK ATTACH  42BB4   UAVABBD         UAVA          1
52G   FLANGE,INPUT MOUNT         42BB5   UAVABBE         UAVA          0
52G   ADAPTER ASSY ALT COOLING   42BB6   UAVABBF         UAVA          1
52G   SHAFT,POWER INPUT DRIVE    42BBE   UAVABE          UAVA          A
52G   HOUSING,GEAR AND ACCESS.   42BBF   UAVABF          UAVA          A
52    GOVERNOR,BASIC             42BBG   UAVABG          UAVA          A
52    GOVERNOR,LIMIT             42BBH   UAVABH          UAVA          A
52G   VALVE,RECIRCULATING        42BBM   UAVABM          UAVA          1
52    TANK,OIL                   42BBR   UAVABR          UAVA          0
52    DUCT,OIL COOL AIR INLET    42BBT   UAVABT          UAVA          1
52    DUCT,OIL COOL AIR EXHAUST  42BBU   UAVABU          UAVA          1
52    COOLER,OIL                 42BBV   UAVABV          UAVA          1
52    VALVE,OIL TEMP CONTROL     42BBW   UAVABW          UAVA          1
52    FILTER,RETURN OIL          42BBX   UAVABX          UAVA          1
52    REGULATOR,AIR PRESS        42BBY   UAVABY          UAVA          1
52    SWITCH,PRESSURE            42BBZ   UAVABZ          UAVA          1
52G   GEARBOX ADAPTER            42BCH   UAVACH          UAVA          1
52    CAP,GEN AIR INLET COOLING  42BAH   UAVAH           UAV           0
52    DUCT,EXHAUSTCOLLECT UPPER  42BAJ   UAVAJ           UAV           1
52    DUCT,EXHAUSTCOLLECT LOWER  42BAK   UAVAK           UAV           1
52H   PLATE,GEN QUICK ATTACH     42BAM   UAVAM           UAV           1
52H   LOCK RING                  42BAN   UAVAN           UAV           1
52   VOLTAGE REGULATION NO.5              UAVB            UAV             AAAAAAAAA
52    REGULATOR,VOLTAGE          42CCB   UAVBCB          UAVB          A
52   GENERATOR CONTORL/PROTECT            UAVC            UAVA            AAAAAAAAA
52    TRNSF,DIFF CURRENT         42CCE   UAVCCE          UAVC          A
52    TRNSF,OVER/UNDER EXCITE    42CCG   UAVCCG          UAVC          A
52    CONTROLLER,FREQ/LOAD       42CCH   UAVCCH          UAVC          A
52    REFERENCE UNIT ASSY,FREQ   42CCJ   UAVCCJ          UAVC          A
52    PACKAGE,CURRENT CONTROL    42CCK   UAVCCK          UAVC          A
52    RELAY,DIFF REACT PROTECT   42CCN   UAVCCN          UAVC          A
52   GEN NO.5 INDICATONS                  UAVD            UAVE            AAAAAAAAA
52    INDICATOR ASSY,TRIP SIG    42CCM   UAVDCM          UAVD          1
52H CONTROLLER MASTER CAUT NR2   49DDB   UAVDDB          UAVD          2
52G CONTROLLER,MAG CONTACTOR     49DDC   UAVDDC          UAVD          2
52   LIGHT,MASTER CAUTION        49DDD   UAVDDD          UAVD          2
52G LIGHT,CIRCUIT BKR OPEN       49DDE   UAVDDE          UAVD          2
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52H CONTROLLER,MASTER              49DEA   UAVDEA          UAVD          2
52H CONTROLLER,E211 MAG CAU LT     49DEF   UAVDEF          UAVD          2
52H RELAY,CENTRAL CAUTION PNL      49DEG   UAVDEG          UAVD          2
52H PANEL,CENTRAL CAUTION          49DEH   UAVDEH          UAVD          2
52H INDICATOR,CENTRAL CAUTION      49DEJ   UAVDEJ          UAVD          2
52   FREQUENCY METER               51CPD   UAVDPD          UAVD          1
52   VOLTMETER                     51CPE   UAVDPE          UAVD          1
52   AMMETER                       51CPH   UAVDPH          UAVD          1
52  GENERATOR NO.5 CONTROL                 UAVE            UAV             AAAAAAAAA
52   PANEL,A-C CONTROL             42CAA   UAVEAA          UAVE          1
52   PANEL ASSY,GEN CONTROL        42CCA   UAVECA          UAVE          1
52  GENERATOR NO.3                         UAW             UASH            AAAAAAAAA
52  GENERATOR NO.3                         UAW             UAWB            FAAAAAAAAA
52  GENERATOR NO.3                         UAW             UAWC            FAAAAAAAAA
52  GENERATOR NO.3                         UAW             UAWD            FAAAAAAAAA
52H GENERATOR NO 3                         UAW             UDP             FAAAAAAAAA
52H GENERATOR NO 3                         UAW             UDQ             S444444444
52H GENERATOR NO 3                         UAW             UDS             FAAAAAAAAA
52G GENERATOR NO 3                         UAW             UDT             AAAAAAAAA
52H GENERATOR NO 3                         UAW             UDT             FAAAAAAAAA
52  CONSTANT SPEED DRIVE NO.               UAWA            UAW             AAAAAAAAA
52   GENERATOR ASSEMBLY            42BAA   UAWAA           UAW           A
52   DRIVE,CONSTANT SPEED          42BBA   UAWABA          UAWA          A
52G  SHAFT,INTERCONNETING          42BBB   UAWABB          UAWA          A
52   FILTER,DRIVE UNIT             42BB2   UAWABBB         UAWA          1
52H  PLATE,CSD QUICK ATTACH        42BB3   UAWABBC         UAWA          1
52H  LOCKRING CSD QUICK ATTACH     42BB4   UAWABBD         UAWA          1
52G  FLANGE,INPUT MOUNT            42BB5   UAWABBE         UAWA          0
52G  ADAPTER ASSY ALT COOLING      42BB6   UAWABBF         UAWA          1
52G  SHAFT,POWER INPUT DRIVE       42BBE   UAWABE          UAWA          A
52G  HOUSING,GEAR AND ACCESS.      42BBF   UAWABF          UAWA          A
52   GOVERNOR,BASIC                42BBG   UAWABG          UAWA          A
52   GOVERNOR,LIMIT                42BBH   UAWABH          UAWA          A
52G  VALVE,RECIRCULATING           42BBM   UAWABM          UAWA          1
52   TANK,OIL                      42BBR   UAWABR          UAWA          0
52   DUCT,OIL COOL AIR INLET       42BBT   UAWABT          UAWA          1
52   DUCT,OIL COOL AIR EXHAUST     42BBU   UAWABU          UAWA          1
52   COOLER,OIL                    42BBV   UAWABV          UAWA          1
52   VALVE,OIL TEMP CONTROL        42BBW   UAWABW          UAWA          1
52   FILTER,RETURN OIL             42BBX   UAWABX          UAWA          1
52   REGULATOR,AIR PRESS           42BBY   UAWABY          UAWA          1
52   SWITCH,PRESSURE               42BBZ   UAWABZ          UAWA          1
52G  GEARBOX ADAPTER               42BCH   UAWACH          UAWA          1
52   CAP,GEN AIR INLET COOLING     42BAH   UAWAH           UAW           0
52   DUCT,EXHAUSTCOLLECT UPPER     42BAJ   UAWAJ           UAW           1
52   DUCT,EXHAUSTCOLLECT LOWER     42BAK   UAWAK           UAW           1
52H  PLATE,GEN QUICK ATTACH        42BAM   UAWAM           UAW           1
52H  LOCK RING                     42BAN   UAWAN           UAW           1
52  VOLTAGE REGULATION NO.3                UAWB            UAW             AAAAAAAAA
52   REGULATOR,VOLTAGE             42CCB   UAWBCB          UAWB          A
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52  GENERATOR CONTROL/PROTECT          UAWC        UAWA          AAAAAAAAA
52   TRNSF,DIFF CURRENT        42CCE   UAWCCE      UAWC      A
52   TRNSF,OVER/UNDER EXCITE   42CCG   UAWCCG      UAWC      A
52   CONTROLLER,FREQ/LOAD      42CCH   UAWCCH      UAWC      A
52   REFERENCE UNIT ASSY,FREQ  42CCJ   UAWCCJ      UAWC      A
52   PACKAGE,CURRENT CONTROL   42CCK   UAWCCK      UAWC      A
52   RELAY,DIFF REACT PROTECT  42CCN   UAWCCN      UAWC      A
52  GEN NO.3 INDICATIONS               UAWD        UAWE          AAAAAAAAA
52   INDICATOR ASSY,TRIP SIG   42CCM   UAWDCM      UAWD      1
52G CONTROLLER,MASTER CAUTION  49DDA   UAWDDA      UAWD      2
52H CONTROLLER MASTER CAUT NR2 49DDB   UAWDDB      UAWD      2
52G CONTROLLER,MAG CONTACTOR   49DDC   UAWDDC      UAWD      2
52  LIGHT,MASTER CAUTION       49DDD   UAWDDD      UAWD      2
52G LIGHT,CIRCUIT BKR OPEN     49DDE   UAWDDE      UAWD      2
52H CONTROLLER,MASTER          49DEA   UAWDEA      UAWD      2
52H CONTROLLER,E211 MAG CAU LT 49DEF   UAWDEF      UAWD      2
52H RELAY,CENTRAL CAUTION PNL  49DEG   UAWDEG      UAWD      2
52H PANEL,CENTRAL CAUTION      49DEH   UAWDEH      UAWD      2
52H INDICATOR,CENTRAL CAUTION  49DEJ   UAWDEJ      UAWD      2
52   FREQUENCY METER           51CPD   UAWDPD      UAWD      1
52   VOLTMETER                 51CPE   UAWDPE      UAWD      1
52   AMMETER                   51CPH   UAWDPH      UAWD      1
52  GENERATOR NO.3 CONTROL             UAWE        UAW           AAAAAAAAA
52   PANEL,A-C CONTROL         42CAA   UAWEAA      UAWE      1
52   PANEL ASSY,GEN CONTROL    42CCA   UAWECA      UAWE      1
52  MAIN EXTERNAL POWER                UAX         UAZ           000000000
52   POWER BOX,MAIN EXTERNAL   42EAA   UAXAA       UAX       A
52   RECEPTACLE,MAIN EXT PWR   42EAB   UAXAB       UAX       A
52   AC POWER ATTEN 2                   UAZ         UAZZ          111111111
52   AC POWER ATTEN 1                   UAZZ        UAS           111111111
52  LEFT ESS DC BUS                    UDB         BAN           AAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BAQA          555555555
52  LEFT ESS DC BUS                    UDB         BAXF          AAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFA       X   AAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFF           AAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFFC          FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFG       X   FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFL           AAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFMA          FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFMC          FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFN       X   FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFS           FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFTA          FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFTC          FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFU       X   FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFZ           FAAAAAAAAA
52  LEFT ESS DC BUS                    UDB         BFZA          FAAAAAAAAA
52 LEFT ESSENTIAL BUS                  UDB         DCG           FAAAAAAAAA
52 LEFT ESSENTIAL BUS                  UDB         DCH           AAAAAAAAA
52 LEFT ESSENTIAL BUS                  UDB         DCQ           AAAAAAAAA
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1234567890123456789012345678901234567890123456789012345678901234567890123456789
52  LEFT ESSENTIAL DC BUS                UDB          FABB          111111111
52                                       UDB          LAD           AAAAAAAAA
52                                       UDB          LCN           AAAAAAAAA
52                                       UDB          LCR           AAAAAAAAA
52  LEFT ESSEN DC BUS                    UDB          MC            AAAAAAAAA
52  LEFT ESSEN DC BUS                    UDB          MD            FAAAAAAAAA
52  LESSEN DC BUS                        UDB          MZA           AAAAAAAAA
52  LEFT ESSENTIAL BUS                   UDB          UDA           FAAAAAAAAA
52  LEFT ESSENTIAL BUS                   UDB          UDW      UDN  111111111
52  LEFT ESSENTIAL DC                    UDB          LUHBE         AAAAAAAAA
52  LEFT ESSENTIAL DC                    UDB          UHFL          AAAAAAAAA
52  LEFT ESSENTIAL DC                    UDB          UHGL          AAAAAAAAA
52  LEFT TR BUS                          UDC          BAE           AAAAAAAAA
52  LEFT TR BUS                          UDC          BAN           AAAAAAAAA
52  LEFT TR BUS                          UDC          BAQA          222222222
52G LEFT TR BUS                          UDC          BAW           FAAAAAAAAA
52G LEFT TR BUS                          UDC          BAXW          AAAAAAAAA
52  LEFT TR BUS                          UDC          BFC           111111111
52  LEFT TR BUS                          UDC          BFJ           F111111111
52  LEFT TR BUS                          UDC          BFQ           F111111111
52  LEFT TR BUS                          UDC          BFW           F111111111
52  LEFT TR BUS                          UDC          BLB           FAAAAAAAAA
52  LEFT TR BUS                          UDC          BLD           F555555555
52  LEFT TR BUS                          UDC          BLF           F555555555
52  FWD LEFT TR BUS                      UDC          BLXX          S5555CA200
52  LEFT TR BUS                          UDC          BQV           AAAAAAAAA
52  LEFT TR BUS                          UDC          BQZ           AAAAAAAAA
52  LEFT TR BUS                          UDC          BRD           FAAAAAAAAA
52  LEFT TR BUS                          UDC          BRF           F555555555
52  LEFT TR BUS                          UDC          BRH           FAAAAAAAAA
52  LEFT TR BUS                          UDC          BRK           FAAAAAAAAA
52  LEFT TR BUS                          UDC          BSL           F111111111
52  LEFT TR BUS                          UDC          BSR           111111111
52  FWD LEFT TR BUS                      UDC          CBHA          FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          CBHB          FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          CBHC          FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          CBKB          FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          CBKC          FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          CC            AAAAAAAAA
52  FWD LEFT TR BUS                      UDC          CM            FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          CN            S999999999
52  LEFT TR BUS                          UDC          CZC           AAAAAAAAA
52 LEFT TR BUS                           UDC          DCA           AAAAAAAAA
52  FWD LEFT TR BUS                      UDC          EAAA          555555555
52  FWD LEFT TR BUS                      UDC          FABB          F111111111
52  FWD LEFT TR BUS                      UDC          ED            S222222222
52  LEFT TR BUS                          UDC          EDAA          FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          EDBC          FAAAAAAAAA
52  LEFT TR BUS                          UDC          EFAH          AAAAAAAAA
52  LEFT TR BUS                          UDC          FAB           222222222
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52  LEFT TR BUS                          UDC          FAD          FAAAAAAAAA
52  LEFT TR BUS                          UDC          FBHZ          AAAAAAAAA
52  LEFT TR BUS                          UDC          FBJA          AAAAAAAAA
52  LEFT TR BUS                          UDC          FBKB         FAAAAAAAAA
52  LEFT TR BUS                          UDC          FBKF         FAAAAAAAAA
52  LEFT TR BUS                          UDC          FBKK         FAAAAAAAAA
52  LEFT TR BUS                          UDC          FBSB         FAAAAAAAAA
52  LEFT TR BUS                          UDC          FCKA          AAAAAAAAA
52  LEFT TR BUS                          UDC          FCQ          FAAAAAAAAA
52  LEFT TR BUS                          UDC          FCSB         FAAAAAAAAA
52  LEFT TR BUS                          UDC          FDC          FAAAAAAAAA
52  LEFT TR BUS                          UDC          FDJ           AAAAAAAAA
52 FWD LEFT TR BUS                       UDC          GBC           AAAAAAAAA
52 FWD LEFT TR BUS                       UDC          MA            AAAAAAAAA
52  FWD LEFT TR BUS                      UDC          MAA          FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          MAB          FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          MAC          FAAAAAAAAA
52  FWD LEFT TR BUS                      UDC          MC            AAAAAAAAA
52  FWD LEFT TR BUS                      UDC          MD           FAAAAAAAAA
52  LEFT TR BUS                          UDC          UDB     UDJ   111111111
52G LEFT TR BUS                          UDC          UDK          FAAAAAAAAA
52  LEFT TR BUS DC PWR                   UDC         LUHAJ         FAAAAAAAAA
52  LEFT TR BUS DC PWR                   UDC         LUHAK         FAAAAAAAAA
52  LEFT TR BUS                          UDC         LUHBF         FAAAAAAAAA
52  LEFT TR BUS                          UDC         LUHBJ         FAAAAAAAAA
52  LEFT TR BUS                          UDC         LUHBK          AAAAAAAAA
52  LEFT TR BUS                          UDC         LUHCG         FAAAAAAAAA
52  LEFT TR BUS                          UDC         LUHCH         FAAAAAAAAA
52  LEFT TR BUS DC PWR                   UDC          UHFL          AAAAAAAAA
52  LEFT TR BUS                          UDC          UHHL          AAAAAAAAA
52G TR NO 1                              UDD          UDC           222222222
52H TRN01                                UDD          UDC           444444444
52   TR UNIT                  42FCA      UDDCA        UDD          A
52  DC POWER CONTROL AND IND.            UDE          UDM           AAAAAAAAA
52   SWITCH,DEAD BAT OVERRIDE 42FDC      UDEDC        UDE          A
52   RELAY                    42FDD      UDEDD        UDE          A
52  AFT TR BUS                           UDF          CAHC          FAAAAAAAAA
52  AFT TR BUS                           UDF          CAUA          FAAAAAAAAA
52  AFT TR BUS                           UDF          CAVA          AAAAAAAAA
52  AFT TR BUS                           UDF          CBKA          AAAAAAAAA
52  AFT TR BUS                           UDF          CL           SAAAAAAAAA
52  AFT TR BUS                           UDF          CLA          FAAAAAAAAA
52  AFT TR BUS                           UDF          CLB          FAAAAAAAAA
52  AFT TR BUS                           UDF          CLCF         FAAAAAAAAA
52  AFT TR BUS                           UDF          CLRA          AAAAAAAAA
52 AFT TR BUS                            UDF          DAU           AAAAAAAAA
52  AFT TR BUS                           UDF          MAA           AAAAAAAAA
52  AFT TR BUS                           UDF          MAB          FAAAAAAAAA
52H AFT TR BUS                           UDF          MZZC          AAAAAAAAA
52  TR NO 5                              UDFA         UDF           222222222
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1234567890123456789012345678901234567890123456789012345678901234567890123456789
52    TR UNIT                          42FCA   UDFACA          UDFA          A
52G   BLOWER UNIT                      42FCD   UDFACD          UDFA          A
52   TR NO 6                                   UDFB            UDF             222222222
52    TR UNIT                          42FCA   UDFBCA          UDFB          A
52G   BLOWER UNIT                      42FCD   UDFBCD          UDFB          A
52   TR NO 7                                   UDFC            UDF             222222222
52    TR UNIT                          42FCA   UDFCCA          UDFC          A
52G   BLOWER UNIT                      42FCD   UDFCCD          UDFC          A
52G TR NO 2                                    UDG             UDC             222222222
52H TR NO 2                                    UDG             UDC             444444444
52    TR UNIT                          42FCA   UDGCA           UDG           A
52G   BLOWER UNIT                      42FCD   UDGCD           UDG           A
52   AFT BATTERY BUS                           UDJ             CAC             AAAAAAAAA
52                                             UDJ             LAL             111111111
52   AFT BATTERY BUS                           UDJ             UDB     K UDC   AAAAAAAAA
52   AFT BATTERY BUS                           UDJ             UDM             111111111
52G   BATTERY,LEAD ACID               42FBA   UDJBA           UDJ           A
52H   BATTERY,NICAD                   42FBB   UDJBB           UDJ           A
52    HEATER,BATTERY                  42FBC   UDJBC           UDJ           1
52    HOUSING ASSY,BATTERY            42FBE   UDJBE           UDJ           1
52   BATTERY CHARGE TR UNIT                    UDK             UDJ             AAAAAAAAA
52    RECTIFIER,BATTERY CHARGE        42FBD   UDKBD           UDK           A
52    TR UNIT                         42FCA   UDKCA           UDK           A
52 EMERGENCY BATTERY BUS                       UDM             DCP             AAAAAAAAA
52  EMERGENCY BATTERY BUS                      UDM             MCA             AAAAAAAAA
52   FWD BATTERY BUS                           UDN             CAC             AAAAAAAAA
52 FWD BATTERY BUS                             UDN             GAD             AAAAAAAAA
52                                             UDN             LAL             111111111
52   FORWARD BATTERY BUS                       UDN             UDM             111111111
52   FORWARD BATTERY BUS                       UDN             UDW     K UDB   AAAAAAAAA
52   FORWARD BATTERY BUS                       UDN             UDY     K UDQ   AAAAAAAAA
52G   BATTERY,LEAD ACID               42FBA   UDNBA           UDN           A
52H   BATTERY,NICAD                   42FBB   UDNBB           UDN           A
52    HEATER,BATTERY                  42FBC   UDNBC           UDN           1
52    HOUSING ASSY,BATTERY            42FBE   UDNBE           UDN           1
52   BATTERY CHARGE TR UNIT                    UDP             UDN             AAAAAAAAA
52    RECTIFIER,BATTERY CHARGE        42FBD   UDPBD           UDP           A
52    TR UNIT                         42FCA   UDPCA           UDP           A
52   RIGHT TR BUS                              UDQ             BAE             AAAAAAAAA
52   RIGHT TR BUS                              UDQ             BAMF            AAAAAAAAA
52   RIGHT TR BUS                              UDQ             BAMP            111111111
52   RIGHT TR BUS                              UDQ             BAMT            AAAAAAAAA
52G  RIGHT TR BUS                              UDQ             BAQA            555555555
52H  RIGHT TR BUS                              UDQ             BAQA            222222222
52G  RIGHT TR BUS                              UDQ             BAW            F555555555
52   RIGHT TR BUS                              UDQ             BAXT            AAAAAAAAA
52   RIGHT TR BUS                              UDQ             BFC             111111111
52   RIGHT TR BUS                              UDQ             BFJ            F111111111
52   RIGHT TR BUS                              UDQ             BFQ            F111111111
52   RIGHT TR BUS                              UDQ             BFW            F111111111
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52	RIGHT TR BUS	UDQ	BLA		111111111
52	RIGHT TR BUS	UDQ	BLB		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	BLD		F555555555
52	RIGHT TR BUS	UDQ	BLF		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	BUV		AAAAAAAAA
52	RIGHT TR BUS	UDQ	BUX		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	BQY		AAAAAAAAA
52	RIGHT TR BUS	UDQ	BQZ		AAAAAAAAA
52	RIGHT TR BUS	UDQ	BFA		F111111111
52	RIGHT TR BUS	UDQ	BRB		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	BRD		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	BRF		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	BRH		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	BRK		F555555555
52	RIGHT TR BUS	UDQ	BSL		F111111111
52	RIGHT TR BUS	UDQ	BSR		111111111
52	RIGHT TR BUS	UDQ	BWA		FAAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	CAH		AAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	CAUB		AAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	CBHA		AAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	EABF		111111111
52	RIGHT TR BUS	UDQ	ECAC		555555555
52	FWD RIGHT TR BUS	UDQ	ECAM		FAAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	ECP		F111111111
52	FWD RIGHT TR BUS	UDQ	ED		S111111111
52	RIGHT TR BUS	UDQ	EDAB		FAAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	EDBC		FAAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	EFAM		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	FAB		222222222
52	RIGHT TR BUS	UDQ	FAC		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	FBKJ		AAAAAAAAA
52	RIGHT TR BUS	UDQ	FBSN		AAAAAAAAA
52	RIGHT TR BUS	UDQ	FCKA		AAAAAAAAA
52	RIGHT TR BUS	UDQ	FCSA		AAAAAAAAA
52	RIGHT TR BUS	UDQ	FDH		AAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	GBC		AAAAAAAAA
52		UDQ	LAM		AAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	MAA		FAAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	MAB		AAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	MC		AAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	MD		FAAAAAAAAA
52	FWD RIGHT TR BUS	UDQ	MG		AAAAAAAAA
52G	RIGHT TR BUS	UDQ	UDP		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	UDY	UDN	111111111
52	RIGHT TR BUS DC PWR	UDQ	RUHAJ		FAAAAAAAAA
52	RIGHT TR BUS DC PWR	UDQ	RUHAK		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	RUHBF		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	RUHBJ		FAAAAAAAAA
52	RIGHT TR BUS	UDQ	RUHBK		AAAAAAAAA
52	RIGHT TR BUS	UDQ	RUHCG		FAAAAAAAAA

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52   RIGHT TR BUS                            UDQ             RUHCH      FAAAAAAAAA
52   RIGHT TR BUS DC PWR                     UDQ              UHFR       AAAAAAAAA
52   RIGHT TR BUS                            UDQ              UHHP       AAAAAAAAA
52G  TR BUS NO 4                             UDR              UDQ        444444444
52H  TR NO 4                                 UDR              UDQ        222222222
52     TR UNIT                     42FCA     UDRCA            UDR       A
52G    BLOWER UNIT                 42FCD     UDRCD            UDR       A
52G  TR UNIT NO. 8                           UDS              UDC        222222222
52H  TR NO 8                                 UDS              UDQ        222222222
52     TR UNIT                     42FCA     UDSCA            UDS       A
52G    BLOWER UNIT                 42FCD     UDSCD            UDS       A
52G  TR UNIT NO. 3                           UDT              UDQ        444444444
52H  TR NO 3                                 UDT              UDQ        222222222
52     TR UNIT                     42FCA     UDTCA            UDT       A
52G    BLOWER UNIT                 42FCD     UDTCD            UDT       A
52   EMERG INST BUS                          UDW              EAAC       111111111
52   RIGHT ESSENTIAL DC BUS                  UDY              BAMT       111111111
52G  RIGHT ESS DC BUS                        UDY              BAQA       777777777
52H  RIGHT ESS DC BUS                        UDY              BAQA       AAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BAV        AAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BAXF       AAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BAXT       AAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFA    X   AAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFF        AAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFFA      FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFFB      FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFG    X  FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFM        AAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFMB      FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFN    X  FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFT       FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFTB      FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFU    X  FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFY       FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFZB      FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BFZC      FAAAAAAAAA
52   RIGHT ESS DC BUS                        UDY              BWA       FAAAAAAAAA
52   RIGHT ESSENTIAL BUS                     UDY              EABB       111111111
52   RIGHT ESSENTIAL DC BUS                  UDY              FAC        AAAAAAAAA
52   RIGHT ESSENTIAL DC BUS                  UDY              FBKB       AAAAAAAAA
52   RIGHT ESSENTIAL DC BUS                  UDY              FBSN       AAAAAAAAA
52   RIGHT ESSENTIAL DC BUS                  UDY              FCKC       AAAAAAAAA
52   RIGHT ESSENTIAL DC BUS                  UDY              FCSA       AAAAAAAAA
52   RIGHT ESSENTIAL BUS                     UDY              FDH        AAAAAAAAA
52                                           UDY              LAM        AAAAAAAAA
52                                           UDY              LAU        AAAAAAAAA
52                                           UDY              LCN        AAAAAAAAA
52                                           UDY              LCP       FAAAAAAAAA
52                                           UDY              LCR        AAAAAAAAA
52   RIGHT ESSEN DC BUS                      UDY              MC         AAAAAAAAA
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52	RIGHT ESSEN DC BUS		UDY	MD	FAAAAAAAAA
52	RIGHT ESSENTIAL DC		UDY	RUHBE	AAAAAAAAA
52	RIGHT ESSENTIAL DC		UDY	UHER	AAAAAAAAA
52	RIGHT ESSENTIAL DC		UDY	UHGR	AAAAAAAAA
52	LEFT OUTBD HYD DIST		LUHA	FDV	AAAAAAAAA
52			LUHA	LCM	AAAAAAAAA
52	RIGHT OUTBD HYD DIST		RUHA	FDZ	AAAAAAAAA
52			RUHA	LCM	AAAAAAAAA
52	SYSTEM PRESSURE		LUHAD	LUHA	AAAAAAAAA
52	SYSTEM PRESSURE		LUHAD	LUHAJ	F111111111
52	SYSTEM PRESSURE		RUHAD	RUHA	AAAAAAAAA
52	SYSTEM PRESSURE		RUHAD	RUHAJ	F111111111
52	FILTER,PRESSURE LINE	45CBV	LUHADBV	LUHAD	1
52	FILTER,PRESSURE LINE	45CBV	RUHADBV	RUHAD	1
52	FILTER ELEMENT	45CBW	LUHADBW	LUHAD	0
52	FILTER ELEMENT	45CBW	RUHADBW	RUHAD	0
52	ACCUMULATOR,HYDRAULIC	45CBX	LUHADBX	LUHAD	2
52	ACCUMULATOR,HYDRAULIC	45CBX	RUHADBX	RUHAD	2
52	GAGE,ACCUMULATOR PRESSURE	45CBY	LUHADBY	LUHAD	0
52	GAGE,ACCUMULATOR PRESSURE	45CBY	RUHADBY	RUHAD	0
52	VALVE,PRESSURE RELIEF	45CBZ	LUHADBZ	LUHAD	2
52	VALVE,PRESSURE RELIEF	45CBZ	RUHADBZ	RUHAD	2
52	PLUMBING	99CBA	LUHADZA	LUHAD	1
52	PLUMBING	99CBA	RUHADZA	RUHAD	1
52	FLUID SUPPLY		LUHAG	LUHAD	SAAAAAAAAA
52	FLUID SUPPLY		LUHAG	UHEL	FAAAAAAAAA
52	FLUID SUPPLY		LUHAG	UHFL	FAAAAAAAAA
52	FLUID SUPPLY		RUHAG	RUHAD	SAAAAAAAAA
52	FLUID SUPPLY		RUHAG	UHER	FAAAAAAAAA
52	FLUID SUPPLY		RUHAG	UHFR	FAAAAAAAAA
52	RESERVOIR,HYDRAULIC	45CBA	LUHAGBA	LUHAG	A
52	RESERVOIR,HYDRAULIC	45CBA	RUHAGBA	RUHAG	A
52	FILTER,RETURN LINE	45CBQ	LUHAGBQ	LUHAG	1
52	FILTER,RETURN LINE	45CBQ	RUHAGBQ	RUHAG	1
52	FILTER ELEMENT	45CBR	LUHAGBR	LUHAG	0
52	FILTER ELEMENT	45CBR	RUHAGBR	RUHAG	0
52	RESERVOIR PRESSURE		LUHAH	LUHAG	AAAAAAAAA
52	RESERVOIR PRESSURE		RUHAH	RUHAG	AAAAAAAAA
52	STRAINER,ENGINE BLEED AIR	45CBC	LUHAHBC	LUHAH	1
52	STRAINER,ENGINE BLEED AIR	45CBC	RUHAHBC	RUHAH	1
52	VLV,RES AIR PRES RLF 2EA	45CBG	LUHAHBG	LUHAH	2
52	VLV,RES AIR PRES RLF 2EA	45CBG	RUHAHBG	RUHAH	2
52	PRESSURE MONITORING		LUHAJ	UHAL	111111111
52	PRESSURE MONITORING		RUHAJ	UHAL	111111111
52	PANEL,HYDRAULIC CONTROL	45CAA	LUHAJAA	LUHAJ	1
52	PANEL,HYDRAULIC CONTROL	45CAA	RUHAJAA	RUHAJ	1
52	PRESSURE INDICATOR	51CFA	LUHAJFA	LUHAJ	A
52	PRESSURE INDICATOR	51CFA	RUHAJFA	RUHAJ	A
52	PRESSURE TRANSMITTER	51CFC	LUHAJFC	LUHAJ	A

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52	PRESSURE TRANSMITTER	51CFC	RUHAJFC	RUHAJ	A
52	LOW PRESSURE WARNING		LUHAK	UHAL	111111111
52	LOW PRESSURE WARNING		RUHAK	UHAL	111111111
52	PANEL,HYDRAULIC CONTROL	45CAA	LUHAKAA	LUHAK	1
52	PANEL,HYDRAULIC CONTROL	45CAA	RUHAKAA	RUHAK	1
52	PRESSURE WARNING SWITCH	45CCZ	LUHAKBF	LUHAK	A
52	PRESSURE WARNING SWITCH	45CCZ	RUHAKBF	RUHAK	A
52	AMBER WARNING LIGHT	99CBB	LUHAKZB	LUHAK	1
52	AMBER WARNING LIGHT	99CBB	RUHAKZB	RUHAK	1
52	PILOT ACTION		UHAL	UHFL	AAAAAAAAA
52	PILOT ACTION		UHAL	UHFR	AAAAAAAAA
52	PANEL,HYDRAULIC CONTROL	45CAA	UHALAA	UHAL	1
52	LEFT INBD HYD DIST		LUHB	FDW	AAAAAAAAA
52	LEFT HYD BODY DIST		LUHB	GAA	111111111
52			LUHB	LCO	AAAAAAAAA
52	RIGHT INBD HYD DIST		RUHB	FDY	AAAAAAAAA
52	RIGHT HYD BODY DIST		RUHB	GAA	111111111
52			RUHB	LCO	AAAAAAAAA
52	SYSTEM PRESSURE		LUHBD	LUHB	AAAAAAAAA
52	SYSTEM PRESSURE		LUHBD	LUHBJ	F111111111
52	SYSTEM PRESSURE		RUHBD	RUHB	AAAAAAAAA
52	SYSTEM PRESSURE		RUHBD	RUHBJ	F111111111
52	VALVE,PRESSURE RELIEF	45CCP	LUHBDCP	LUHBD	2
52	VALVE,PRESSURE RELIEF	45CCP	RUHBDCP	RUHBD	2
52	FILTER,PRESSURE LINE	45CCT	LUHBDCT	LUHBD	1
52	FILTER,PRESSURE LINE	45CCT	RUHBDCT	RUHBD	1
52	FILTER ELEMENT	45CCU	LUHBDCU	LUHBD	0
52	FILTER ELEMENT	45CCU	RUHBDCU	RUHBD	0
52	PLUMBING/FITTINGS	99CCA	LUHBDZA	LUHBD	1
52	PLUMBING/FITTINGS	99CCA	RUHBDZA	RUHBD	1
52	NORMAL SYSTEM PRESSURE		LUHBE	LUHBD	AAAAAAAAA
52	NORMAL SYSTEM PRESSURE		LUHBE	LUHBK	F111111111
52	NORMAL SYSTEM PRESSURE		RUHBE	RUHBD	AAAAAAAAA
52	NORMAL SYSTEM PRESSURE		RUHBE	RUHBK	F111111111
52	VALVE,FIREWALL SHUTOFF	45CCG	LUHBECG	LUHBE	A
52	VALVE,FIREWALL SHUTOFF	45CCG	RUHBECG	RUHBE	A
52	FITTING,QUICK DISCONNECT	45CCH	LUHBECH	LUHBE	1
52	FITTING,QUICK DISCONNECT	45CCH	RUHBECH	RUHBE	1
52	PUMP,ENG DRIVEN HYDRAULIC	45CCJ	LUHBECJ	LUHBE	A
52	PUMP,ENG DRIVEN HYDRAULIC	45CCJ	RUHBECJ	RUHBE	A
52	GROUND SERVICE		LUHBF	LUHBD	000000000
52	GROUND SERVICE		RUHBF	RUHBD	000000000
52	PUMP,GROUND TEST	45CCV	LUHBFCV	LUHBF	A
52	PUMP,GROUND TEST	45CCV	RUHBFCV	RUHBF	A
52	MOTOR,GROUND TEST PUMP	45CCY	LUHBFCY	LUHBF	A
52	MOTOR,GROUND TEST PUMP	45CCY	RUHBFCY	RUHBF	A
52	FLUID SUPPLY		LUHBG	LUHBE	AAAAAAAAA
52	FLUID SUPPLY		LUHBG	LUHBF	FAAAAAAAAA
52	FLUID SUPPLY		RUHBG	RUHBE	AAAAAAAAA
52	FLUID SUPPLY		RUHBG	RUHBF	FAAAAAAAAA

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12345678901234567890123456789012345678901234567890123456789012345678901234567890
52  RESERVOIR,HYDRAULIC          45CCA  LUHBGCA          LUHBG          A
52  RESERVOIR,HYDRAULIC          45CCA  RUHBGCA          RUHBG          A
52  FILTER,RETURN LINE           45CCL  LUHBGCL          LUHBG          1
52  FILTER,RETURN LINE           45CCL  RUHBGCL          RUHBG          1
52  FILTER ELEMENT               45CCM  LUHBGCM          LUHBG          0
52  FILTER ELEMENT               45CCM  RUHBGCM          RUHBG          0
52  RESERVOIR PRESSURE                  LUHBH            LUHBG            AAAAAAAAA
52  RESERVOIR PRESSURE                  RUHBH            RUHBG            AAAAAAAAA
52  STRAINER,ENGINE BLEED AIR   45CCC  LUHBHCC          LUHBH          0
52  STRAINER,ENGINE BLEED AIR   45CCC  RUHBHCC          RUHBH          0
52  VALVE,RES AIR RELIEF 3EACH  99CCB  LUHBHZG          LUHBH          1
52  VALVE,RES AIR RELIEF 3EACH  99CCB  RUHBHZG          RUHBH          1
52  PRESSURE INDICATOR                  LUHBJ            LUHBL            111111111
52  PRESSURE INDICATOR                  RUHBJ            RUHBL            111111111
52  PANEL,HYDRAULIC CONTROL     45CAA  LUHBJAA          LUHBJ          1
52  PANEL,HYDRAULIC CONTROL     45CAA  RUHBJAA          RUHBJ          1
52  PRESSURE INDICATOR          51CFA  LUHBJFA          LUHBJ          A
52  PRESSURE INDICATOR          51CFA  RUHBJFA          RUHBJ          A
52  PRESSURE TRANSMITTER        51CFC  LUHBJFC          LUHBJ          A
52  PRESSURE TRANSMITTER        51CFC  RUHBJFC          RUHBJ          A
52  LOW PRESSURE WARNING                LUHBK            LUHBL            111111111
52  LOW PRESSURE WARNING                RUHBK            RUHBL            111111111
52  PANEL,HYDRAULIC CONTROL     45CAA  LUHBKAA          LUHBK          1
52  PANEL,HYDRAULIC CONTROL     45CAA  RUHBKAA          RUHBK          1
52  SWITCH,PRESSURE WARNING     45CCZ  LUHBKCZ          LUHBK          A
52  SWITCH,PRESSURE WARNING     45CCZ  RUHBKCZ          RUHBK          A
52  AMBER WARNING LIGHT         99CBB  LUHBKZC          LUHBK          A
52  AMBER WARNING LIGHT         99CBB  RUHBKZC          RUHBK          A
52  PILOT AWARENESS                     LUHBL            LUHBLA           111111111
52  PILOT AWARENESS                     RUHBL            RUHBLA           111111111
52  ATTENUATION NO 1                    LUHBLA           LUHBLB           111111111
52  ATTENUATION NO 1                    RUHBLA           RUHBLB           111111111
52  ATTENUATION NO 2                    LUHBLB           LUHB             111111111
52  ATTENUATION NO 2                    RUHBLB           RUHB             111111111
52  LEFT BODY HYD DIST                  LUHC              FBKL            AAAAAAAAA
52  LEFT BODY HYD DIST                  LUHC              FCM             111111111
52 LEFT HYD BODY    DIST                LUHC              GBB             111111111
52 LEFT HYD  BODY   DIST                LUHC              GBD             111111111
52                                      LUHC              LAK             111111111
52  LEFT BODY HYD. DIST.                LUHC              MCA             AAAAAAAAA
52  RIGHT BODY HYD DIST                 RUHC              FBKL            AAAAAAAAA
52  RIGHT BODY HYD DIST                 RUHC              FCM             111111111
52 RIGHT HYD BODY    DIST               RUHC              GBB             111111111
52 RIGHT HYD  BODY   DIST               RUHC              GBD             111111111
52                                      RUHC              LAK             111111111
52  RIGHT BODY HYD. DIST.               RUHC              MD              AAAAAAAAA
52  SYSTEM PRESSURE                     LUHCA            LUHC             AAAAAAAAA
52  SYSTEM PRESSURE                     LUHCA            LUHCG            F111111111
52  SYSTEM PRESSURE                     RUHCA            RUHC              AAAAAAAAA
52  SYSTEM PRESSURE                     RUHCA            RUHCG            F111111111
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52  VALVE,MANUAL CHECK          45CER  LUHCAER      LUHCA        1
52  VALVE,MANUAL CHECK          45CER  RUHCAER      RUHCA        1
52  FLUID SUPPLY                       LUHCD         UHGL           AAAAAAAAA
52  FLUID SUPPLY                       LUHCD         UHHL          FAAAAAAAAA
52  FLUID SUPPLY                       RUHCD         UHGR           AAAAAAAAA
52  FLUID SUPPLY                       RUHCD         UHHR          FAAAAAAAAA
52  RESERVOIR,HYDRAULIC        45CDA  LUHCDDA      LUHCD        2
52  RESERVOIR,HYDRAULIC        45CDA  RUHCDDA      RUHCD        2
52  FILTER,RETURN LINE         45CDJ  LUHCDDJ      LUHCD        1
52  FILTER,RETURN LINE         45CDJ  RUHCDDJ      RUHCD        1
52  FILTER ELEMENT             45CDK  LUHCDDK      LUHCD        0
52  FILTER ELEMENT             45CDK  RUHCDDK      RUHCD        0
52  RESERVOIR PRESSURE                 LUHCE         LUHCD          222222222
52  RESERVOIR PRESSURE                 RUHCE         RUHCD          222222222
52  VALVE,RES AIR PRESS RELIEF 45CDF  LUHCEDF      LUHCE        1
52  VALVE,RES AIR PRESS RELIEF 45CDF  RUHCEDF      RUHCE        1
52  STANDBY RESERVE SUPPLY             LUHCF         UHHL           111111111
52                                     RUHCF         UHHR           111111111
52  STANDBY RESERVE TANK       99CDB  LUHCFZB      LUHCF        A
52  STANDBY RESERVE TANK       99CDB  RUHCFZB      RUHCF        A
52  PRESSURE INDICATION                LUHCG         LUHCJ          111111111
52  PRESSURE INDICATION                RUHCG         RUHCJ          111111111
52  PRESSURE INDICATOR         51CFA  LUHCGFA      LUHCG        A
52  PRESSURE INDICATOR         51CFA  RUHCGFA      RUHCG        A
52  PRESSURE TRANSMITTER       51CFC  LUHCGFC      LUHCG        A
52  PRESSURE TRANSMITTER       51CFC  RUHCGFC      RUHCG        A
52  LOW PRESSURE WARNING               LUHCH         LUHCJ          111111111
52  LOW PRESSURE WARNING               RUHCH         RUHCJ          111111111
52  SWITCH,PRESSURE WARNING    45CEU  LUHCHEU      LUHCH        A
52  SWITCH,PRESSURE WARNING    45CEU  RUHCHEU      RUHCH        A
52  AMBER WARNING LIGHT        99CBB  LUHCHZE      LUHCH        A
52  AMBER WARNING LIGHT        99CBB  RUHCHZE      RUHCH        A
52  PILOT ACTION                       LUHCJ         UHHL           111111111
52  PILOT ACTION                       RUHCJ         UHHR           111111111
52  PANEL,HYDRAULIC CONTROL    45CAA  LUHCJAA      LUHCJ        1
52  PANEL,HYDRAULIC CONTROL    45CAA  RUHCJAA      RUHCJ        1
52  MANIFOLDS,5 EACH           99CDA  LUHCZA       LUHC         2
52  MANIFOLDS,5 EACH           99CDA  RUHCZA       RUHC         2
52  NORMAL PRESSURE                     UHEL        LUHAD     UHFL  111111111
52  NORMAL PRESSURE                     UHFL        LUHAK           FAAAAAAAAA
52  VALVE,FIREWALL SHUTOFF     45CBL  UHELBL       UHEL         A
52  FITTING,QUICK DISCONNECT   45CBM  UHELBM       UHEL         A
52  PUMP,ENG DRIVEN HYD        45CBN  UHELBN       UHEL         A
52  NORMAL PRESSURE                     UHER        RUHAD     UHFR  111111111
52  NORMAL PRESSURE                     UHER        RUHAK           FAAAAAAAAA
52  VALVE,FIREWALL SHUTOFF     45CBL  UHERBL       UHER         A
52  FITTING,QUICK DISCONNECT   45CBM  UHERBM       UHER         A
52  PUMP,ENG DRIVEN HYD        45CBN  UHERBN       UHER         A
52  STANDBY PRESSURE                    UHFL        LUHAD   K UHEL  AAAAAAAAA
52  PUMP,STANDBY               45CB2  UHFLBB       UHFL         A
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123456789012345678901234567890123456789012345678901234567890123456789012345678
52  MOTOR,HYD STANDBY PUMP      45CB3   UHFLBC          UHFL          A
52  STANDBY PRESSURE                    UHFR            RUHAD   K UHER   AAAAAAAAA
52  PUMP,STANDBY                45CB2   UHFRBB          UHFR          A
52  MOTOR,HYD STANDBY PUMP      45CB3   UHFRBC          UHFR          A
52  NORMAL PRESSURE                     UHGL            LUHCA     UHHL  111111111
52  NORMAL PRESSURE                     UHGL            LUHCH          F111111111
52  FITTING,QUICK DISCONNECT    45CDG   UHGLDG          UHGL          1
52  VALVE,FIREWALL SHUTOFF      45CDH   UHGLDH          UHGL          A
52  PUMP,ENG DRIVEN,HYD         45CEG   UHGLEG          UHGL          A
52  FILTER,PRESSURE LINE        45CEH   UHGLEH          UHGL          1
52  FILTER ELEMENT              45CEJ   UHGLEJ          UHGL          0
52  NORMAL PRESSURE                     UHGR            RUHCA     UHHR  111111111
52  NORMAL PRESSURE                     UHGR            RUHCH          F111111111
52  FITTING,QUICK DISCONNECT    45CDG   UHGRDG          UHGR          1
52  VALVE,FIREWALL SHUTOFF      45CDH   UHGRDH          UHGR          A
52  PUMP,ENG DRIVEN HYD         45CEG   UHGREG          UHGR          A
52  FILTER,PRESSURE LINE        45CEH   UHGREH          UHGR          1
52  FILTER ELEMENT              45CEJ   UHGREJ          UHGR          0
52  STANDBY PRESSURE                    UHHL            LUHCA   K UHGL   AAAAAAAAA
52  FILTER,STANDBY-SYSTEM       45CEP   UHHLEP          UHHL          1
52  FILTER ELEMENT              45CEQ   UHHLEQ          UHHL          0
52  PUMP,STANDBY                45CES   UHHLES          UHHL          A
52  MOTOR,HYD STBY PUMP         45CET   UHHLET          UHHL          A
52  STANDBY PRESSURE                    UHHR            RUHCA   K UHGR   AAAAAAAAA
52  FILTER,STANDBY SYSTEM       45CEP   UHHREP          UHHR          1
52  FILTER ELEMENT              45CEQ   UHHREQ          UHHR          0
52  PUMP,STANDBY                45CES   UHHRES          UHHR          A
52  MOTOR,HYD STBY PUMP         45CET   UHHRET          UHHR          A
52  INFO ONLY BUSTIE FAILURE            UX              UX              000000000

CARD COUNT IS 00004178. CARDS WITH ERRORS 00000000
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