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AUTHORITY

AFATL ltr, 23 May 1977

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**AFATL-TR-75-3  
VOLUME II**



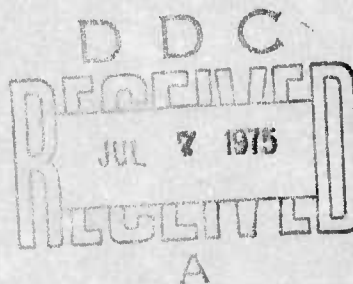
**ADB004858**

**STORES INTERFACE  
DATA HANDLING ANALYSIS - PHASE II  
VOLUME II. APPENDIXES**

**HIGH-SHEAR CORPORATION**

**TECHNICAL REPORT AFATL-TR-75-3, VOLUME II**

**JANUARY 1975**



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**AIR FORCE ARMAMENT LABORATORY**

**AIR FORCE SYSTEMS COMMAND • UNITED STATES AIR FORCE**

**EGLIN AIR FORCE BASE, FLORIDA**



**Stores Interface**  
**Data Handling Analysis - Phase II**  
**Volume II. Appendixes**

**Michael J. Lauro**  
**George T. Collins**

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FOREWORD

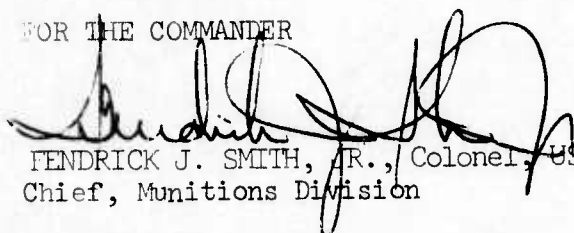
This report was prepared by the Ordnance Division, Hi-Shear Corporation, 2000 Skypark Drive, Torrance, California 90509, under Contract No. F08635-73-C-0094, with the Air Force Armament Laboratory, Eglin Air Force Base, Florida. Captain James F. Stuart, Jr. (DLJA) managed the program for the Armament Laboratory. The inclusive dates of this research were January 1974 to November 1974.

This report consists of two volumes. Volume I - Technical Discussion and Volume II - Appendices.

Contractor personnel who most actively participated in the preparation of this report were Messrs. Michael J. Lauro and George T. Collins.

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER



FENDRICK J. SMITH, JR., Colonel, USAF  
Chief, Munitions Division

## ABSTRACT

This technical report describes those improvements made to the Store Interface Data Handling Analysis - Phase I for automating Aircraft/Store Electrical Interface Compatibility Analyses and computerized testing procedures. Until now, a manual method was used to compare hardcopy aircraft stores management system design data against store interface data generated by the Phase I Data Processing System. The improved system eliminates this time consuming task by automatically performing the complete interface compatibility analysis/test. A set of universal aircraft data documentation formats and new computer programs were developed for this added system capability. The new computer programs were designed to disclose any electrical incompatibility that may exist between the aircraft and store selected for comparison. New computer printouts provide detail pin to pin and general interface compatibility information. Diagnostic message printouts are also provided to define each specific incompatibility condition that was detected. The improved system may be used to evaluate or verify the adequacy of an aircraft to control its existing store complement. Essentially, the improved system would compare the electrical design limits of the aircraft stores management system against store electrical requirements that are contained in the AFATL Store Data File. Any incompatible or marginal interface condition will be detected. The system improvements described in this report will greatly reduce the time and cost associated with analyzing aircraft and stores from an electrical interface compatibility standpoint.

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APPENDIX I

LIST OF INCOMPATIBLE INTERFACE CIRCUIT  
DIAGNOSTIC MESSAGES

DIAGNOSTIC FILE CODE NO.

MESSAGE

DM-001 (A200A-E166) - No circuit exists in aircraft to mate with active test case store interface connection.

DM-002 None - Interface pin connection not used by test case store.

DM-003 None - Interface pin connection not used by aircraft or test case store.

DM-004 (A205-E156) - Aircraft circuit is not contained within a required multi-conductor cable.

DM-005 (A205-E156) - Aircraft circuit is contained within a non related multi-conductor cable.

DM-006 (A206-E112) - Aircraft wire type is not suitable for test case store.

DM-007 (E125) - No Data

DM-008 (A207) - No Data

DM-009 (A206-E112) - Aircraft cable type is not compatible with specific store cable part number requirements.

DM-010 (A213-E157) - Aircraft circuit cannot accommodate store floating shield connection.

DM-011 (A213-E157) - Store circuit is not compatible with aircraft floating shield connection.

DM-012 (A214-E158) - Aircraft circuit is not used for a required structure ground connection.

DM-013 (A214-E158) - Store circuit is not compatible with aircraft structure ground connection.

DM-014 (A215-E165) - Aircraft circuit wire size is larger than acceptable store mating size limit. Store circuit may not be protected by aircraft circuit breaker.

DM-015 (A215-E165) - Aircraft circuit wire size is smaller than acceptable store mating size limit. Aircraft circuit is not capable of carrying sufficient circuit current.

- DM-016 (A202-E111) - Aircraft/Store circuit signal category assignments are not compatible.
- DM-017 (A301-E151) - Aircraft has no interface with an essential store loop connection.
- DM-018 (A301-E151) - Aircraft circuitry is not compatible with store loop connection.
- DM-019 (A306A-E161) - Store loop circuit is not protected by the unswitched aircraft output circuits power source circuit breaker.
- DM-020 (A307-E161) - Store loop circuit cannot carry maximum current that may be switched by the aircraft's output circuit.
- DM-021 (A115-E161) - Normal aircraft circuit load exceeds current carrying/switching limits of the store loop circuit.
- DM-022 (A307-E161A) - Aircraft output circuit switching device is not capable of switching store loop circuit series load(s).
- DM-023 (A202-E162) - Aircraft sensor circuit is not compatible with test case store.
- DM-024 (A301-E152) - Aircraft circuit voltage polarity is not compatible with the test case store.
- DM-025 (A301-E152) - Aircraft circuit does not incorporate a circuit load which is required for normal test case store operation.
- DM-026 (A301-E152) - Aircraft circuit does not incorporate a circuit control switch which is required for normal test case store operation.
- DM-027 (A301-E152) - Aircraft circuit does not incorporate a series current limiting resistor which is required for normal test case store operation.
- DM-028 (A301-E152) - Aircraft circuit contains a series current limit resistor that is not required and may affect normal test case store operation.
- DM-029 (A301-E153) - Aircraft circuit does not incorporate an off-state parallel load to ground which is required by the test case store.

DM-030 (A302-E153) - Aircraft circuit does not incorporate an off-state ground connection which is required by the test case store.

DM-031 (A302-E153) - Aircraft circuit does not incorporate an off-state open circuit which is required by the test case store.

DM-032 (A304-E114) - Aircraft circuit voltage type is not compatible with the AC voltage requirement of the test case store.

DM-033 (A304-E114) - Aircraft circuit voltage type is not compatible with the DC voltage requirement of the test case store.

DM-034 (A304-E114) - Aircraft circuit voltage type is not compatible with the special type voltage requirement of the test case store.

DM-035 (A303-E113) - Aircraft circuit minimum voltage value is greater than that required by the test case store.

DM-036 (A303-E113) - Aircraft circuit maximum voltage value is less than that required by the test case store.

DM-037 (A305-E154) - Aircraft circuit cannot meet minimum interface voltage value required by the test case store.

DM-038 (A303-E115) - Aircraft circuit maximum source voltage value exceeds maximum interface voltage allowable for normal test case store operation.

DM-039 (A307-E115) - Aircraft output circuit is not capable of controlling maximum store circuit steady state loads.

DM-040 (A308,A309-E118,E119) - Aircraft output circuit is not capable of controlling maximum store circuit transient loads.

DM-041 (A401) - Missing data

DM-042 (A401-E251) - Aircraft pylon jettison logic is not compatible with test case equipment installation.

DM-043 (A402) - Missing data

- DM-044 (A402-E252) - Aircraft bomb rack release logic is not compatible with test case bomb rack release circuit function.
- DM-045 (A403-E253) - Aircraft launcher release logic is not compatible with test case launcher circuit release function.
- DM-046 (A404-E254) - Aircraft store interface release logic is not compatible with test case store circuit release function.
- DM-047 (A421-E260) - The aircraft monitor circuit is not suitable to display the available optional store operational status message.
- DM-048 (A421-E260) - The aircraft monitor circuit is not suitable to display the required store operational status message.
- DM-049 (A408-E255) - The aircraft monitor circuit logic is not suitable to display or control the available optional store monitor circuit.
- DM-050 (A408-E255) - The aircraft monitor circuit logic is not suitable to display or control the required store monitor circuit.
- DM-051 (A411-E217) - The aircraft operational status display nomenclature does not agree with the display message word requirements of the test case equipment.
- DM-052 (413-E221) - Aircraft has no means to control the required test case equipment control circuit from the aircraft crew station.
- DM-053 (A415-E257) - Aircraft circuit power signal I/O or shield connection is not compatible with test case equipment circuit.
- DM-054 (A416-E259) - Aircraft sensor circuit is not compatible with test case store.
- DM-055 (A417-E208) - Aircraft interface connection is not electrically isolated between weapon stations. Condition may result in abnormal store operation.
- DM-056 (A418-E222) - Aircraft circuit is being used to control a unique store circuit that is dedicated for another purpose which violates safety or administrative design requirements.

DM-057

(A418-E222) - This interface connection employs the use of unique interface circuits. Check that no safety or administrative design requirements are being violated.

DM-058

(A419-E201) - Aircraft circuit does not meet station selection logic requirements of test case equipment circuit.

DM-059

(A501-E501) - The functional aircraft I/O circuit is not compatible with the non-functional test case equipment pin connection.

DM-060

(A501-E501) - Aircraft circuit is not compatible with test case equipment input circuit type requirements.

DM-061

(A501-E501) - Aircraft circuit is not compatible with test case equipment output circuit type requirements.

DM-062

(A502) - Missing data.

DM-063

(A502-E502) - Aircraft output circuit switching form is not compatible with the input signal switching requirements of the test case equipment.

DM-064

(E503) - Missing data.

DM-065

(A503-E503) - Test case equipment output circuit switching form is not compatible with the input signal switching requirements of the aircraft circuit.

DM-066

(A506-E506) - The worst case (fixed) aircraft output circuit initiate delay time is less than the minimum circuit initiate delay time requirements of the test case equipment.

DM-067

(A507-E507) - The worst case (fixed) aircraft output circuit initiate delay time is greater than the maximum circuit initiate delay time requirements of the test case equipment.

DM-068

(A506,A505-E506) - The aircraft output circuit variable time setting device is not capable of being adjusted to meet the minimum circuit initiate delay time requirements of the test case equipment.

DM-069

(A507,A505-E507) - The aircraft output circuit variable time setting device is not capable of

being adjusted to meet the maximum circuit initiate delay time requirements of the test case equipment.

DM-070

(A511-E511) - Aircraft output circuit is not capable of providing a continuous output signal which is required for normal test case equipment operation.

DM-071

(A509-E509) - The worst case (fixed) aircraft output circuit on-time is less than the minimum circuit on-time requirements of the test case equipment.

DM-072

(A510-E510) - The worst case (fixed) aircraft output circuit on-time is greater than the maximum circuit on-time requirements of the test case equipment.

DM-073

(A509,A508-E509) - The aircraft output circuit variable on-time setting device is not capable of being adjusted to meet the minimum on-time requirements of the test case equipment.

DM-074

(A510,A508-E510) - The aircraft output circuit variable on-time setting device is not capable of being adjusted to meet the maximum on-time requirements of the test case equipment.

DM-075

(A513-E513) - The worst case (fixed) aircraft output circuit drop-out delay time is less than the minimum circuit drop-out delay time requirements of the test case equipment.

DM-076

(A514-E514) - The worst case (fixed) aircraft output circuit drop-out delay time is greater than the maximum circuit drop-out delay time requirements of the test case equipment.

DM-077

(A513,A512-E513) - The aircraft output circuit variable time setting device is not capable of being adjusted to meet the minimum circuit drop-out delay time requirements of the test case equipment.

DM-078

(A514,A512-E514) - The aircraft output circuit variable time setting device is not capable of being adjusted to meet the maximum circuit drop-out delay time requirements of the test case equipment.

DM-079

(A516-E516) - The worst case (fixed) aircraft output circuit off (dwell) time between power pulses is less than the minimum circuit pulse off-time requirements of the test case equipment.

DM-080

(A517-E517) - The worst case (fixed) aircraft output circuit off (dwell) time between power pulses is greater than the maximum circuit pulse off-time requirements of the test case equipment.

DM-081

(A516,A515-E516) - The aircraft output circuit variable off-time setting device is not capable of being adjusted to meet the minimum circuit pulse off-time requirements of the test case equipment.

DM-082

(A517,A515-E517) - The aircraft output circuit variable off-time setting device is not capable of being adjusted to meet the maximum circuit pulse off-time requirements of the test case equipment.

DM-083

(A506-E506) - The worst case (fixed) store output circuit initiate delay time is less than the minimum circuit initiate time requirements of the aircraft input circuit.

DM-084

(A507-E507) - The worst case (fixed) store output circuit initiate delay time is greater than the maximum circuit initiate time requirements of the aircraft input circuit.

DM-085

(A506-E507,E505) - The store output circuit variable time setting device is not capable of being adjusted to meet the minimum circuit initiate delay time requirements of the aircraft input circuit.

DM-086

(A507-E507,E505) - The store output circuit variable time setting device is not capable of being adjusted to meet the maximum circuit initiate delay time requirements of the aircraft input circuit.

DM-087

(A511-E511) - Store output circuit is not capable of providing a continuous output signal which is required for normal aircraft input circuit operation.

- DM-088 (A509-E509) - The worst case (fixed) store output circuit on-time is less than the minimum circuit on-time required for normal aircraft input circuit operation.
- DM-089 (A510-E510) - The worst case (fixed) store output circuit on-time is greater than the maximum circuit on-time required for normal aircraft input circuit operation.
- DM-090 (A509-E509,E508) - The store output circuit variable on-time setting device is not capable of being adjusted to meet the minimum on-time requirements of the aircraft input circuit.
- DM-091 (A510-E510,E508) - The store output circuit variable on-time setting device is not capable of being adjusted to meet the maximum on-time requirements of the aircraft input circuit.
- DM-092 (A513-E513) - The worst case (fixed) store output circuit drop-out delay time is less than the minimum circuit drop-out delay time required for normal aircraft input circuit operation.
- DM-093 (A514-E514) - The worst case (fixed) store output circuit drop-out delay time is greater than the maximum circuit drop-out delay time required for normal aircraft input circuit operation.
- DM-094 (A513-E513,E512) - The store output circuit variable time setting device is not capable of being adjusted to meet the minimum circuit drop-out delay time required for normal aircraft input circuit operation.
- DM-095 (A514-E514,E512) - The store output circuit variable time setting device is not capable of being adjusted to meet the maximum circuit drop-out delay time required for normal aircraft input circuit operation.
- DM-096 (A516-E516) - The worst case (fixed) store output circuit off (dwell) time between power pulses is less than the minimum circuit pulse off-time required for normal aircraft input circuit operation.
- DM-097 (A517-E517) - The worst case (fixed) store output circuit off (dwell) time between power pulses is greater than the maximum circuit pulse off-time required for normal aircraft input circuit operation.

DM-098

(A516-E516,E515) - The store output circuit variable off-time setting device is not capable of being adjusted to meet the minimum circuit pulse off-time required for normal aircraft input circuit operation.

DM-099

(A517-E517,E515) - The store output circuit variable off-time setting device is not capable of being adjusted to meet the maximum circuit pulse off-time required for normal aircraft input circuit operation.

DM-100

(A601-E601) - Aircraft circuit ground/shield connection is not compatible with the signal function interface requirements of the test case store.

DM-101

(A601-E601) - Aircraft connection is not compatible with the test case store power return (ground) circuit requirements.

DM-102

(A601-E601) - Aircraft connection is not compatible with the test case store circuit shield connection requirements.

DM-103

(A601A) - Missing data.

DM-104

(A601A-E601A) - Aircraft circuit is not compatible with store switching sequence order requirements.

DM-105

(A602-E602) - The test case store circuit on-state (true) requirements are not compatible with N related aircraft circuits.

DM-106

(A602-E602) - The test case store circuit off-state (false) requirements are not compatible with N related aircraft circuits.

## APPENDIX II

### AIRCRAFT CHARACTERISTIC DEFINITION SHEETS

#### 1. ATTACHMENTS

The attached sheets provide format information and data documentation rationale for the universal aircraft data documentation formats shown in Figures 8 through 13.

CHARACTERISTIC TITLE: AIRCRAFT STATION NUMBER		NO. A100
DEFINITION	Designates the aircraft station associated with the data card connector characteristics.	
CHARACTERISTIC BLOCK LETTER:	A	SIGNAL CATEGORY: N/A
CARD DATA:		
COLUMN(S)	STYLE	FORMAT
1-2	DI-1	I2
		CHOICE/VALUE
		Aircraft Station Number
REMARKS:		
	Any digits from 1 to 00 may be used to identify the applicable weapon station. Do not use letters such as "LO" or "RI" as a station reference.	
		SHEET 1 OF 1

CHARACTERISTIC TITLE: CONNECTOR IDENTIFICATION CODE NO.		NO. A101	
DEFINITION			
Designates the equipment group applicability of the aircraft interface connector in coded form.			
CHARACTERISTIC BLOCK LETTER:	A	SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
4-6	DI-1	I3	Connector Identification Code Number
REMARKS:			
<p>The aircraft data file should facilitate a set of three digit code numbers (100 to 999) for each complement of interface connectors that are provided at the weapon station. Each code number will represent the aircraft interface connector normally used to control a specified group of stores and/or suspension devices. A different code number should be used if the aircraft interface (for any given equipment) is comprised of more than one connector.</p> <p>Those codes assigned to one station may be used (repeated) to identify the same equipment groups at other aircraft weapon stations.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CONNECTOR PART NUMBER		NO. A102	
DEFINITION			
Actual part number of aircraft interface connector.			
CHARACTERISTIC BLOCK LETTER: A		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
7-24	AN-1	4A4,A2	Connector part number
REMARKS:			
Any combination of alpha numeric characters may be documented in these card columns.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CONNECTOR MARKER NUMBER		NO. A103	
DEFINITION  Designates the aircraft interface connector "J" or "P" marker number reference as specified in the relevant aircraft technical order manual.			
CHARACTERISTIC BLOCK LETTER: A		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
26-33	AN-2	2A4	Connector marker number
REMARKS:  Any combination of alphanumeric characters may be documented in these card columns.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CONNECTOR INSERT COMPATIBILITY CODE NUMBER		NO. A104	
DEFINITION			
Alphanumeric code number used to describe the aircraft interface connector in terms that will facilitate computerized aircraft/store connector mating compatibility testing.			
CHARACTERISTIC BLOCK LETTER: A		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
35	AN-1	A1	Connector Type Code Letter
36 - 37	DI-1	I2	Insert Configuration Code No.
38	DI-1	I1	Keyway Position Code No.
REMARKS:			
<p>Card column 35 is provided to accept a code letter (A to Z). Each letter will represent a specific connector type. For example, the letter "A" may indicate connector type (MS) per MIL-C-5015, the letter "C" may indicate connector type (CE) per MIL-C-26482, etc.</p> <p>Card columns 36-37 are provided to accept a two digit (01-99) code number. Each code number will represent a unique connector insert configuration for the type connector specified in column 35.</p>			
SHEET 1 OF 2			

CHARACTERISTIC TITLE: CONNECTOR INSERT COMPATIBILITY CODE NUMBER	NO. A104																				
REMARKS																					
<p>Card column 38 is provided to accept a single digit (0 - 9) code number. Each number represents a different pin or socket keyway position of the connector insert.</p> <p>Letter Position Keyway Code Conversion:</p> <table data-bbox="534 600 1251 674"> <tr> <td>0 = S</td> <td>2 = SW</td> <td>4 = SX</td> <td>6 = SY</td> <td>8 = SZ</td> </tr> <tr> <td>1 = P</td> <td>3 = PW</td> <td>5 = PX</td> <td>7 = PY</td> <td>9 = PZ</td> </tr> </table> <p>Number Position Keyway Code Conversion:</p> <table data-bbox="534 763 1251 837"> <tr> <td>0 = SN</td> <td>2 = S2</td> <td>4 = S3</td> <td>6 = S4</td> <td>8 = S5</td> </tr> <tr> <td>1 = PN</td> <td>3 = P2</td> <td>5 = P3</td> <td>7 = P4</td> <td>9 = P5</td> </tr> </table> <p>This characteristic is used by the Phase 2 computer programs to determine the physical mating ability of aircraft and store connectors. The connector type and insert configuration codes of the aircraft and store must be same to indicate a physical mating compatibility. In addition, the keyway position code number assigned to the aircraft and store connector must be as follows:</p> <p>If the aircraft connector keyway is coded with a 0, 2, 4, 6, or 8, the store must be coded with a 1, 3, 5, 7, or 9 respectively.</p> <p>Conversely, if the aircraft connector is coded a 1, 3, 5, 7, or 9, the store must be coded with a 0, 2, 4, 6, or 8 respectively.</p> <p>A listing of code number assignments for connector types and insert configurations have been prepared and are available at the Air Force Armament Laboratory (DLJA).</p>		0 = S	2 = SW	4 = SX	6 = SY	8 = SZ	1 = P	3 = PW	5 = PX	7 = PY	9 = PZ	0 = SN	2 = S2	4 = S3	6 = S4	8 = S5	1 = PN	3 = P2	5 = P3	7 = P4	9 = P5
0 = S	2 = SW	4 = SX	6 = SY	8 = SZ																	
1 = P	3 = PW	5 = PX	7 = PY	9 = PZ																	
0 = SN	2 = S2	4 = S3	6 = S4	8 = S5																	
1 = PN	3 = P2	5 = P3	7 = P4	9 = P5																	
SHEET 2 OF 2																					

CHARACTERISTIC TITLE: CONNECTOR INTERFACE FUNCTION		NO. A105	
DEFINITION			
Defines the utilization of the aircraft interface connector			
CHARACTERISTIC BLOCK LETTER: A		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
39	SSM-1	3A1	Store
40			Suspension device
41			Fixed Station Equip.
REMARKS:			
<p>The store function designates that the aircraft interface connector is used to mate with a store or its adapter cable.</p> <p>The suspension device function designates that the aircraft interface connector is used to mate with a suspension device.</p> <p>The fixed station equipment function designates that the aircraft interface connector is used to mate with an electrical device/equipment that is permanently installed at the aircraft weapon station.</p>			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: CONNECTOR PIN UTILIZATION - ACTIVE CIRCUITS		NO. A106
DEFINITION	Designates the number of pins used by the aircraft interface connector for normal aircraft/store interface circuit operation.	
CHARACTERISTIC BLOCK LETTER: A	SIGNAL CATEGORY: N/A	
CARD DATA:		
COLUMN(S)	STYLE	FORMAT
43-45	DI-1	I3
		CHOICE/VALUE
		Active circuits
REMARKS:	Connector pins that contain spare wires (capped and stowed) should not be considered as active circuits.	
	SHEET 1 OF 1	

CHARACTERISTIC TITLE: CONNECTOR PIN UTILIZATION - PIN ISOLATION CIRCUITS	NO. A107
---	-------------

DEFINITION

Designates the number of pins used by the aircraft interface connector to provide a physical barrier between critical connector interface circuits.

CHARACTERISTIC BLOCK LETTER: A	SIGNAL CATEGORY: N/A
--------------------------------	----------------------

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
46 - 48	DI-2	I3	Pin Isolation Circuits

REMARKS:

Circuit isolation pins are normally specified on relevant technical documents.

CHARACTERISTIC TITLE: <b>CONNECTOR PIN UTILIZATION - USABLE SPARE CIRCUITS</b>		NO. <b>A108</b>	
DEFINITION  Designates the number of pins available on the aircraft interface connector for interface growth/modification purposes.			
CHARACTERISTIC BLOCK LETTER: <b>A</b>		SIGNAL CATEGORY: <b>N/A</b>	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
49-51	DI-1	I3	Usable Spare Circuits
REMARKS:			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: EQUIPMENT INTERFACE GROUP NO.	NO. A109
--	-------------

DEFINITION

Designates the station and applicable equipments that are controlled by the aircraft interface connector in coded form.

CHARACTERISTIC BLOCK LETTER: A	SIGNAL CATEGORY: N/A
--------------------------------	----------------------

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
53 - 54	DI-1	I2	Station Reference
56 - 58	DI-1	I3	Store Group
60 - 61	DI-1	I2	Suspension Device Group

REMARKS:

The rationale used for assigning code numbers to this characteristic is described in SECTION IV, paragraph b.

CHARACTERISTIC TITLE: CONTINUATION COLUMN		NO. (NONE)	
DEFINITION			
<p>This column is provided as a cue (when checked) to indicate that the next data card contains additional - connector information relevant to the same aircraft equipment group interface.</p>			
CHARACTERISTIC BLOCK LETTER: A		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
72	SEX	A1	Continuation
REMARKS:			
<div style="text-align: right; border: 1px solid black; padding: 2px;">SHEET 1 OF 1</div>			

CHARACTERISTIC TITLE: <div style="text-align: center; margin-top: 10px;">CARD NUMBER</div>	NO. ALLO																
DEFINITION																	
Provided a means to identify data cards for deck set-up purposes.																	
CHARACTERISTIC BLOCK LETTER: A	SIGNAL CATEGORY: N/A																
CARD DATA:																	
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE														
73	SEA-1	A1	Characteristics Block Letter A														
74 - 75	DI-1	I2	Station Reference														
77 - 79	DI-1	I3	Data Card														
80	SEA-2	A1	Continuation Card Letter														
REMARKS:																	
<p>The rationale used for the assignment of card numbers is as follows:</p> <p>Column 73 - the characteristic block letter represents the applicable aircraft data documentation format.</p> <table style="margin-left: auto; margin-right: auto; border: none;"> <thead> <tr> <th style="text-align: left; padding-right: 20px;"><u>Code Letter</u></th> <th style="text-align: left;"><u>Aircraft Data Documentation Format</u></th> </tr> </thead> <tbody> <tr> <td style="padding-right: 20px;">A</td> <td>Station Interface Connectors</td> </tr> <tr> <td style="padding-right: 20px;">B</td> <td>Station Interface Wiring</td> </tr> <tr> <td style="padding-right: 20px;">C</td> <td>Interface Signal Form</td> </tr> <tr> <td style="padding-right: 20px;">D</td> <td>Interface Signal Logic</td> </tr> <tr> <td style="padding-right: 20px;">E</td> <td>Interface Switching Form/Time</td> </tr> <tr> <td style="padding-right: 20px;">F</td> <td>Interface Signal Sequence</td> </tr> </tbody> </table>				<u>Code Letter</u>	<u>Aircraft Data Documentation Format</u>	A	Station Interface Connectors	B	Station Interface Wiring	C	Interface Signal Form	D	Interface Signal Logic	E	Interface Switching Form/Time	F	Interface Signal Sequence
<u>Code Letter</u>	<u>Aircraft Data Documentation Format</u>																
A	Station Interface Connectors																
B	Station Interface Wiring																
C	Interface Signal Form																
D	Interface Signal Logic																
E	Interface Switching Form/Time																
F	Interface Signal Sequence																
			SHEET 1 OF 2														

CHARACTERISTIC TITLE:	CARD NUMBER	NO. A110
REMARKS	<p>Columns 74 - 75 - These columns are used to designate the applicable aircraft station number in coded form (refer to aircraft characteristic A100).</p> <p>Columns 77 - 79 - These columns are used to designate a unique three digit number (from 001 to 999) for each data card associated with the respective characteristic data block.</p> <p>Column 80 - This column is provided for aircraft data file growth purposes. Should new aircraft data characteristics be added to the data file in the form of an additional card, the supplement cards will then be identified by including a revision letter in column 80.</p>	
		SHEET 2 OF 2

CHARACTERISTIC TITLE: SIGNAL SEQUENCE GROUP CODE NO.	NO. All1
---	-------------

DEFINITION	Designates the interface signal sequence configuration of all circuits associated with the aircraft interface connector in coded form.
------------	--

CHARACTERISTIC BLOCK LETTER: A	SIGNAL CATEGORY: N/A
--------------------------------	----------------------

CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
63 - 66	DI-2	I4	Signal Sequence Group Code No.

REMARKS:	This characteristic is non-functional and was provided on the data documentation format for file growth purposes only.
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SHEET 1 OF 1

CHARACTERISTIC TITLE:		AIRCRAFT CIRCUIT FUNCTION NO. (Station Interface Wiring Format)	NO. A200
DEFINITION			
Defines the aircraft circuit associated with each interface connector pin in coded form.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
1 - 2	DI-1	I2	Station Reference
4 - 6	DI-1	I3	Circuit
7	SEA-2	A1	Branch
8	SEA-2	A1	Ground
REMARKS:			
<p>The rationale used for the assignment of aircraft circuit functions is as follows:</p> <p>Columns 1 - 2 - These columns are used to designate the station number associated with the aircraft interface function.</p> <p>Columns 4 - 6 - These columns are used to designate a unique code number (1 to 999) for each different aircraft circuit that is provided at the aircraft/store station interface. In certain cases, an aircraft circuit that is terminated at a pin on the aircraft interface connector is switched in the aircraft to one or more different power sources (or aircraft loads).</p>			
			SHEET 1 OF 3

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT FUNCTION NO.	NO. A200
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REMARKS

Such circuits are defined in this report as "Multi-function circuits". These type circuits are documented in a manner where each function of the circuit can be defined according to its peculiar electrical characteristics. Therefore, if a multi-function circuit is terminated at a connector pin, two complete data card entries are made, with each function referencing the same interface connector pin. Documenting the electrical characteristics of each function of the interface circuit is essential for a complete and valid comparison of aircraft and store interface circuit characteristics.

Aircraft interface circuits that are connected in parallel in the aircraft are documented on individual data cards. This feature enables a complete pin to pin examination of aircraft and store interface circuits.

Single function circuits such as individual power switching and ground circuits are documented on individual data cards.

Columns 7 and 8 - These card columns are used to designate the individual branches of multifunction function, parallel, and ground connection aircraft interface circuits. The illustration shown in sheet 3 of 3 depicts a typical example of the aircraft circuit functions number coding system used in this report.

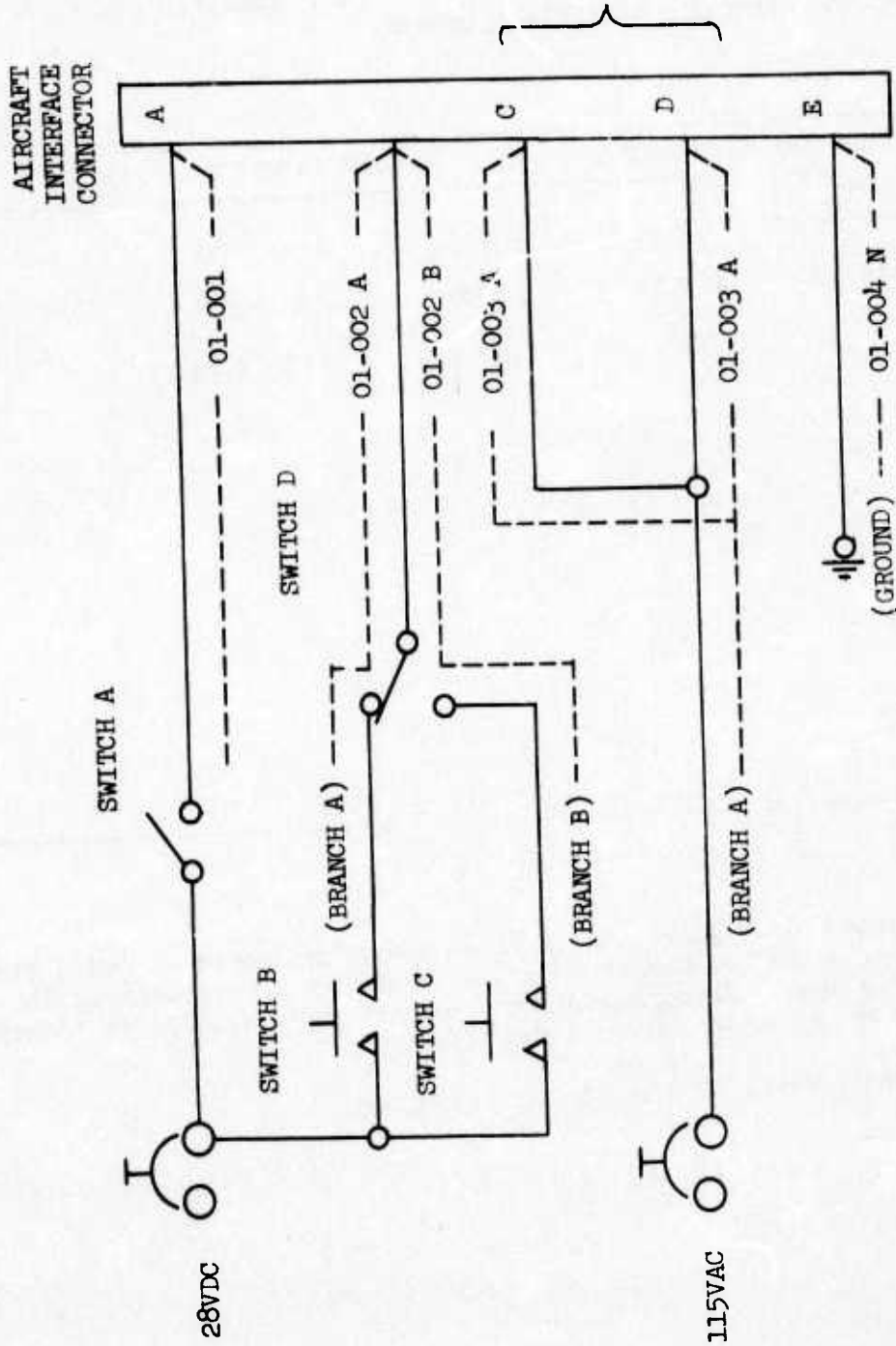
Column 8 is used exclusively for documenting aircraft ground connections. The letter "N" is written in this column to indicate that the aircraft end of the interface circuit is terminated at a grounding terminal strip or directly to aircraft structure.

SHEET 2 OF 3

REMARKS:

AIRCRAFT CIRCUIT TYPES  
 SINGLE FUNCTION CIRCUIT.  
 MULTI-FUNCTION CIRCUIT  
 PARALLEL CIRCUITS  
 GROUND CIRCUIT

STATION NO 1



AIRCRAFT CIRCUIT FUNCTION NUMBER CODING SYSTEM

CHARACTERISTIC TITLE: NO CIRCUIT	NO. A200A
-------------------------------------	--------------

DEFINITION

Designates that the respective aircraft connector pin is not used by the aircraft's electrical system.

CHARACTERISTIC BLOCK LETTER: B	SIGNAL CATEGORY: N/A
--------------------------------	----------------------

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
9	SEX	A1	No Circuit

REMARKS:

In those cases where the aircraft connector has no circuit, the nomenclature "No Circuit" may be documented in characteristic number A201. Consequently, the connector pin will be so identified on printed computer output data.

Characteristic A200 should be left blank.

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT FUNCTION NOMENCLATURE		NO. A201	
DEFINITION			
<p>Provided a brief wording description of the respective aircraft circuit function.</p>			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
10 - 24	AN-1	3A4,A3	Aircraft Circuit Function Nomenclature
REMARKS:			
<p>Any combination of alphanumeric characters may be documented in these card columns.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: SIGNAL CATEGORY		NO. A202	
DEFINITION  Designates the functional usage of the respective aircraft interface circuit.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
25	SSM-1	5A1	Release
26			Monitor
27			Control
28			Sensor
29			Power
REMARKS:			
<p>The following rationale is used for the assignment of signal categories to aircraft interface circuits.</p> <p>Column 25 - Release circuits are all circuit types that are employed for the direct actuation of equipment ejection, firing, dispensing, launching, and jettison mechanisms.</p>			
			SHEET 1 OF 2

CHARACTERISTIC TITLE:	SIGNAL CATEGORY	NO. A202
REMARKS	<p>Column 26 - Monitor circuits are all circuits that are employed for indicating equipment status. These include such sensing functions as store status messages, store present, store identification, store quantity, and other similar information.</p> <p>Column 27 - Control circuits are all circuits that are employed to precondition (by pilot operations or automated means) equipment for management and/or release. These include such control functions as arming, safing, station selection, heater control, etc.</p> <p>Column 28 - Sensor circuits are all digital and analog circuits that are employed for the exchange of guidance, target acquisition, tracking, and other similar functions between the aircraft's avionic equipment and weapons. Video and audio signal are also considered to be sensor circuits.</p> <p>Column 29 - Power circuits are all circuits that are dedicated for store power functions. These include high current consumption circuits used by equipment motors, heater, power supplies, etc. All power return (ground) circuits and cable shield circuits should also be classified in the power signal category.</p>	
SHEET 2 OF 2		

CHARACTERISTIC TITLE: CONNECTOR IDENTIFICATION CODE NO.		NO. A203	
DEFINITION			
Designates the aircraft connector associated with the respective interface circuit function.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
31 - 33	DI-1	I3	Connector Identification Code Number
REMARKS:			
Refer to characteristic A101 for a detailed explanation of connector identification coding procedures.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: AIRCRAFT/EQUIPMENT INTERFACE CONNECTION		NO. A204	
DEFINITION			
Designates the pin number or letter associated with the aircraft/ store interface connection.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
34 - 35	AN or DI-1	A2	Letter/Number
36	SEX	A1	Lower Case
37	SEA-1	A1	Pin Size Code
38 - 40	AN or DI-1	A3	Terminal Number
REMARKS:			
<p>Placing a check mark (x) in column 36 indicates that the pin letter specified in columns 34-35 are lower case letters.</p> <p>The same pin size coding procedure described in AFATL-TR-73-214, Phase 1, Page 122, is applicable to this aircraft characteristic.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: MULTI-CONDUCTOR CABLE	NO. A205
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DEFINITION	Designates that the aircraft circuit is one conductor of a multi-conductor cable that is terminated at the aircraft interface connector.
------------	--

CHARACTERISTIC BLOCK LETTER: B	SIGNAL CATEGORY: All
--------------------------------	----------------------

CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
41	SEA-1	A1	Multi-Conductor Cable

REMARKS:	<p>All conductors within the same multi-conductor cable must be identified by placing a letter (A to Z) in card column 41.</p> <p>Each different multi-conductor cable (terminated at the same aircraft interface connector) should be coded with a different letter.</p>
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SHEET 1 OF 1

CHARACTERISTIC TITLE: WIRE TYPE		NO. A206	
DEFINITION			
Designates the type of wire or cable connected to the aircraft side of the aircraft interface connector.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
42	SSM-1	3A1	Standard
43			Shielded
44			Coaxial (Other)
REMARKS:			
The same wire type coding procedures and part number correlation described in AFATL-TR-73-214, Phase 1, Page 122, are applicable to this aircraft characteristic.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: WIRE TYPE CODE	NO. A207
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DEFINITION

Designates the part number (in coded form) of the wire or cable connected to the aircraft side of the aircraft interface connector.

CHARACTERISTIC BLOCK LETTER: B	SIGNAL CATEGORY: All
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CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
45	SEA-1	A1	Wire Type Code

REMARKS:

The same wire type coding procedures and part number correlation described in AFATL-TR-73-214, Phase 1, Page 122, are applicable to this aircraft characteristic.

CHARACTERISTIC TITLE: EQUIPMENT IDENTIFICATION CODE NUMBER		NO. A208	
DEFINITION			
Designates the source of the aircraft interface circuit with respect to its aircraft black box or component origin point.			
CHARACTERISTIC BLOCK LETTER:		SIGNAL CATEGORY:	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
47 - 49	DI-1	I3	Equipment Identification Code Number
REMARKS:			
<p>Each aircraft data file may use this characteristic to record the origin of aircraft interface circuits. A code number (1 to 999) should be used in conjunction with a hard copy code number/equipment nomenclature dictionary for data correlation purposes.</p> <p>This characteristic is not used by any of the analytical Phase 1 or 2 computer programs.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CONNECTOR IDENTIFICATION CODE NUMBER	NO. A209
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DEFINITION

Designates the connector used on the aircraft black box or component at the aircraft origin point of the interface circuit.

CHARACTERISTIC BLOCK LETTER: B	SIGNAL CATEGORY: All
--------------------------------	----------------------

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
50 - 52	DI-1	I3	Connector Identification Code Number

REMARKS:

Each aircraft data file may use this characteristic to record the connector number used on the aircraft black box or component that generates (or receives) the aircraft circuit. A code number (1 - 999) should be used in conjunction with a hard copy code number/equipment connector part number dictionary for data correlation purposes.

This characteristic is not used by any of the analytical Phase 1 or 2 computer programs.

CHARACTERISTIC TITLE: INTERFACE CONNECTION		NO. A210	
DEFINITION			
Designates the pin number or letter associated with the aircraft equipment connector referenced in aircraft characteristic A209.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
53 - 54	AN or DI-1	A2,	Letter/Number
55	SEX	A1	Lower Case
56 - 58	AN or DI-1	A3	Terminal Number
REMARKS:			
Refer to characteristic A209 for applicable remarks.			
If the interface circuit source is connected to an equipment terminal post, (rather than a connector) the number of the terminal should be documented in card columns 56 - 58.			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: ADAPTER CABLE JUNCTION - CONNECTOR ID CODE NO.		NO. A211	
DEFINITION			
Identifies the connector type (in coded form) that is installed in aircraft to accept one or more different types of aircraft/store adapter cables.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
60 - 62	DI-2	I3	Connector Identification Code Number
REMARKS:			
<p>Each aircraft data file may use this characteristic to record the part numbers of aircraft adapter cable receptacles. A code number (1 - 999) should be used in conjunction with a hard copy code number/store adapter cable receptacle part number dictionary for data correlation purposes.</p> <p>This characteristic is not used by any of the analytical Phase 1 or 2 computer programs.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: ADAPTER CABLE JUNCTION - CONNECTOR PIN NUMBER		NO. A212	
DEFINITION  Designates the pin number or letter of the aircraft adapter cable receptacle that is used to terminate the aircraft interface circuit.			
CHARACTERISTIC BLOCK LETTER:		SIGNAL CATEGORY:	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
63 - 64	SSM-2	A2,	Letter/Number
65	SEX	A1	Lower Case
REMARKS:			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: FLOATING SHIELD CIRCUIT		NO. A213								
DEFINITION	Designates that the interface connection is used to terminate a cable shield.									
CHARACTERISTIC BLOCK LETTER:	SIGNAL CATEGORY:									
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>69</td> <td>SEX</td> <td>A1</td> <td>Floating Shield Circuit</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	69	SEX	A1	Floating Shield Circuit
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
69	SEX	A1	Floating Shield Circuit							
REMARKS:	<p>This column should be checked as required for conventional shielded wires and those installations where coaxial wire shields are individually terminated at interface connector pins.</p>									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE: AIRCRAFT STRUCTURE GROUND		NO. A214	
DEFINITION:  Designates that the aircraft side of the interface is directly connected to a structure ground, and the circuit is used for aircraft/store grounding (power return) purposes only.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: Power Only	
CARD DATA:			
COLUMN(S) 70	STYLE SEX	FORMAT A1	CHOICE/VALUE Aircraft Structure Ground
REMARKS:  Column 70 should also be checked if the aircraft circuit is indirectly connected to ground via a multi-grounding post terminal strip.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: WIRE SIZE		NO. A215	
DEFINITION			
<p>Specifies the wire size that is terminated at the aircraft side of the interface connection.</p>			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: ALL	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
71 - 72	DI-1	I2	Wire Size
REMARKS:			
<p>The actual wire size rating should be documented in these columns.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: I/O POWER SOURCE		NO. A216												
DEFINITION	Designates the interface circuit power source location.													
CHARACTERISTIC BLOCK LETTER: B	SIGNAL CATEGORY: All													
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>66</td> <td>SSM-2</td> <td>2A1</td> <td>Aircraft Output</td> </tr> <tr> <td>67</td> <td></td> <td></td> <td>Aircraft Input</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	66	SSM-2	2A1	Aircraft Output	67			Aircraft Input
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE											
66	SSM-2	2A1	Aircraft Output											
67			Aircraft Input											
REMARKS:	<p>Column 66 should be checked if the interface circuit is connected to, or switched to, a DC or AC power source that originates in the aircraft circuit may or may not contain a series or parallel load.</p> <p>Column 67 should be checked if the interface circuit power source originates in the store, or if the circuit is a power return signal (that may originate in the aircraft) and is returned to ground in the aircraft via a switch or load located in the store.</p> <p>All interface circuit structure ground connections (at the aircraft or store side of the interface) and floating shield circuits are considered as aircraft input circuits and should be checked accordingly.</p>													
		SHEET 1 OF 1												

CHARACTERISTIC TITLE: WIRE SHIELD GROUP		NO. A217	
DEFINITION  Designates those individual circuit wire shields that are electrically connected together (in the aircraft) at the interface connector.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
68	SEA-2	A1	Wire Shield Group
REMARKS:  This characteristic is non-functional and was provided on the data documentation format for file growth purposes only.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: CARD NUMBER		NO. A225	
DEFINITION			
Provides a means to identify data cards for deck set-up purposes.			
CHARACTERISTIC BLOCK LETTER: B		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
73	SEA-1	A1	Characteristics Block Letter B
74 - 75	DI-1	I2	Station Reference
77 - 79	DI-1	I3	Data Card
80	SEA-2	A1	Continuation Card Letter
REMARKS:			
Refer to characteristic A110 for the rationale used to assign card numbers.			
A data card must be provided for each pin associated with the aircraft interface connector. Unused connector pins should be identified with a blank card (except for card number).			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE:		AIRCRAFT CIRCUIT FUNCTION NO. (SIGNAL FORM FORMAT)	NO. A300																				
DEFINITION	<p>Defines the aircraft circuit associated with each interface connector pin in coded form.</p>																						
CHARACTERISTIC BLOCK LETTER:		SIGNAL CATEGORY:																					
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>1 - 2</td> <td>DI-1</td> <td>I2</td> <td>Station Reference</td> </tr> <tr> <td>4 - 6</td> <td>DI-1</td> <td>I3</td> <td>Circuit</td> </tr> <tr> <td>7</td> <td>SEA-2</td> <td>A1</td> <td>Branch</td> </tr> <tr> <td>8</td> <td>SEA-2</td> <td>A1</td> <td>Ground</td> </tr> </tbody> </table>			COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	1 - 2	DI-1	I2	Station Reference	4 - 6	DI-1	I3	Circuit	7	SEA-2	A1	Branch	8	SEA-2	A1	Ground
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE																				
1 - 2	DI-1	I2	Station Reference																				
4 - 6	DI-1	I3	Circuit																				
7	SEA-2	A1	Branch																				
8	SEA-2	A1	Ground																				
REMARKS:	<p>Refer to characteristic A200 for the rationale used to assign aircraft circuit function numbers.</p>																						
			SHEET 1 OF 1																				

CHARACTERISTIC TITLE:		AIRCRAFT CIRCUIT CONFIGURATION ON STATE		NO.	A301
DEFINITION					
<p>Defines the overall electrical characteristics of aircraft circuit in a form suitable for aircraft/store interface circuit compatibility testing.</p>					
CHARACTERISTIC BLOCK LETTER:			C	SIGNAL CATEGORY: All Except Sensor	
CARD DATA:					
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE		
10	SSM-1	2A1	Source - Power		
11			Return		
12	MSM-2	3A1	Circuit Type - Circuit Load		
13			Circuit Switch		
14			Current Limiter		
REMARKS:					
<p>The following rationale should be used for documenting the on state configuration of aircraft circuit functions.</p> <p>Columns 10 &amp; 11, the on state circuit power source documentation procedure is identical to that described for characteristic A216. Aircraft output and input circuits are equivalent to source power and source return circuits respectively.</p>					
					SHEET 1 OF 2

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT CONFIGURATION ON STATE	NO. A301
REMARKS	
<p>Column 12. The Circuit Load column should be checked if the aircraft circuit contains a series load. It is assumed that mating store circuit will either switch, or directly connect this circuit to ground.</p> <p>Column 13. The Circuit Switch column should be checked if the aircraft circuit contains a switching means that can interrupt the interface circuit.</p> <p>Column 14. The Current Limiter column should be checked if the aircraft circuit contains a series current limiting resistance.</p>	
SHEET 2 OF 2	

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT CONFIGURATION OFF STATE		NO. A302	
DEFINITION  Defines the technique or normal circuit design employed in the aircraft for handling inactive interface circuit connections.			
CHARACTERISTIC BLOCK LETTER: C	SIGNAL CATEGORY: All Except Sensor		
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
16	SSM-1	3A1	Parallel Load to Ground
17			Grounded
18			Open Circuit
REMARKS:			
<p>The following rationale should be used for documenting the off state configuration of aircraft circuit functions.</p> <p>Column 16. The parallel load to ground column should be checked if the aircraft circuit incorporates a high impedance path to ground. Such paths may be possible due to existing parallel loads that may be connected to the circuit in the aircraft. In other cases the aircraft circuit may be intentionally loaded to ground for normal operating purposes.</p>			
			SHEET 1 OF 2



CHARACTERISTIC TITLE: CIRCUIT VOLTAGE SOURCE VALUE MINIMUM/MAXIMUM VOLTS		NO. A303												
DEFINITION	Designates the minimum and maximum voltage applied to the aircraft circuit under normal aircraft power supply operating conditions.													
CHARACTERISTIC BLOCK LETTER: C	SIGNAL CATEGORY: All													
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>23 - 26</td> <td>DR-2</td> <td>F4.0</td> <td>Minimum Volts</td> </tr> <tr> <td>27 - 30</td> <td>DR-2</td> <td>F4.0</td> <td>Maximum Volts</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	23 - 26	DR-2	F4.0	Minimum Volts	27 - 30	DR-2	F4.0	Maximum Volts
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE											
23 - 26	DR-2	F4.0	Minimum Volts											
27 - 30	DR-2	F4.0	Maximum Volts											
REMARKS:	<p>The voltage value specified in columns 23-26 and 27-30 should be the minimum and maximum voltage that may be expected at the aircraft circuit breaker or other over current protection component that is used to power the aircraft interface circuit.</p> <p>This characteristic is only applicable to aircraft output circuits that do not contain a series load on the aircraft side of the interface connection.</p>													
		SHEET 1 OF 1												

CHARACTERISTIC TITLE: CIRCUIT VOLTAGE TYPE		NO. A304	
DEFINITION  Defines the type of voltage that is used by the aircraft to power the respective interface circuit.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
31	SSM-2	3A1	AC (400 H <sub>Z</sub> )
32			DC
33			Other
REMARKS:  Column 33. Should be checked if the interface circuit is powered by a special type power supply that is unique to certain store circuits.  This Characteristic is only applicable to aircraft output circuits that do not contain a series load on the aircraft side of the interface connection.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: MINIMUM INTERFACE VOLTAGE		NO. A305								
DEFINITION	<p>Specifies the minimum voltage that will be applied to the aircraft/store interface connection under the worst case aircraft power supply/maximum aircraft circuit resistance conditions.</p>									
CHARACTERISTIC BLOCK LETTER: C	SIGNAL CATEGORY: All									
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>34 - 37</td> <td>DR-2</td> <td>F4.0</td> <td>Minimum Interface Voltage</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	34 - 37	DR-2	F4.0	Minimum Interface Voltage
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
34 - 37	DR-2	F4.0	Minimum Interface Voltage							
REMARKS:	<p>This characteristic is only applicable to aircraft output circuits that do not contain a series load on the aircraft side of the interface connection.</p>									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT BREAKER SOURCE-COMPONENT IDENTIFICATION CODE NO.		NO. A306	
DEFINITION			
Provides a Data File code number reference that may be used to record the part number/identification of the aircraft circuit breaker used to power the respective interface circuit.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: ALL	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
39 - 41	DI-2	I3	Component Identification Code Number
REMARKS:			
<p>Each aircraft data file may use this characteristic to record the part number/identification of all aircraft stores management circuit breakers. A code number (1 to 999) should be used in conjunction with a hard copy code no./circuit breaker identification dictionary for data correlation purposes.</p> <p>This characteristic is not used by any of the analytical Phase 1 or 2 computer programs.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE:		NO.								
AIRCRAFT CIRCUIT BREAKER SOURCE RATING (AMPS)		A306A								
DEFINITION	<p>Designates the current rating used to power the aircraft interface circuit.</p>									
CHARACTERISTIC BLOCK LETTER:	C	SIGNAL CATEGORY: All								
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>42 - 43</td> <td>DI-2</td> <td>I2</td> <td>Ratings (AMPS)</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	42 - 43	DI-2	I2	Ratings (AMPS)
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
42 - 43	DI-2	I2	Ratings (AMPS)							
REMARKS:	<p>Circuit Breaker ratings that do not conform to integer values should be documented to the lowest whole integer value. For example, "7.5" AMP Rating should be documented as "7".</p>									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT LOAD LIMITATIONS STEADY-STATE CURRENT (AMPS)		NO. A307	
DEFINITION			
Designates the maximum steady state current that may be either carried or switched by aircraft output circuits.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
44 - 47	DR-2	F4.0	Steady State Current (AMPS)
REMARKS:			
The value documented in columns 44-47 should be based on the limits of the worst case current carrying or switching component in the aircraft circuit. For example, an aircraft circuit may contain a series relay contact (Rated At 10 AMPS) that is powered from a 7.5 AMP circuit breaker. In this case, the limits of the circuit breaker rather than the relay contact should be documented.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT LOAD LIMITATIONS - TRANSIENT CURRENT (AMPS)		NO. A308	
DEFINITION			
Designates the maximum transient current that may be either carried or switched by aircraft output circuits.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
48 - 51	DR-2	F4.0	Current (AMPS)
REMARKS:			
Refer to Characteristic A307 for Applicable Remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT LOAD LIMITATIONS - TRANSIENT CURRENT TIME (SEC)		NO. A309	
DEFINITION			
Designates the duration of the transient current (Specified in characteristic A308) in seconds.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
52 - 54	DR-2	F3.0	Time (Sec.)
REMARKS:			
This characteristic is used in conjunction with characteristic A308 to describe the transient current limitations of the aircraft output circuit.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: AIRCRAFT LOAD LIMITING COMPONENT IDENTIFICATION CODE NUMBER	NO. A310
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DEFINITION

Provides a Data File code number reference that may be used to record the part number/identification of the worst case load carrying/switching component in the aircraft circuit.

CHARACTERISTIC BLOCK LETTER: C	SIGNAL CATEGORY: All
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COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
55 - 57	DI-2	I3	Component Identification Code Number

REMARKS:

Each aircraft data file may use this characteristic to record the part number/identification of the subject aircraft component. A code number (1-999) should be used in conjunction with a hard copy code number/component part identification dictionary for data correlation purposes.

This characteristic is not used by any of the Phase 1 or 2 analytical computer programs.

CHARACTERISTIC TITLE: AIRCRAFT WIRE RESISTANCE		NO. A311	
DEFINITION  Provides a means to record the total wire resistance of the aircraft interface circuit.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
58 - 61	DR-2	F4.0	Aircraft Wire Resistance
REMARKS:  This characteristic is not used by any of the Phase 1 or 2 analytical computer programs.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: SENSOR CIRCUIT SIGNAL FORM/LOGIC CHARACTERISTIC CODE NO.		NO. A312	
DEFINITION			
Designates a code number that is used to identify the signal form and logic characteristics of Sensor type aircraft interface circuits.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: Sensor Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
62 - 65	DI-2	I4	Sensor Circuit Code No.
REMARKS:			
The complete electrical characteristics of all unique types of aircraft/store sensor circuits will be eventually documented in hard copy format. Each unique circuit type will be assigned a code number which will be used by the Phase 1 and 2 analytical computer programs for circuit sorting and interface compatibility testing purposes.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: PARALLEL AIRCRAFT CIRCUITS		NO. A313	
DEFINITION			
Provide a means to calculate the total circuit load connected to each aircraft output circuit.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
66 - 67	DI-2	I2	Parallel Aircraft Circuit Store Load Multiplication Factor
REMARKS:			
<p>Characteristics A313 and A314 are used as cues by the Phase 2 aircraft/test case store interface compatibility program to determine the total load imposed on the aircraft output circuit.</p> <p>A check mark in the column 68 (Chara. A314) indicates that the respective aircraft circuit has one or more parallel connections to other aircraft station equipment interface connectors or aircraft loads.</p> <p>The total load of each parallel load connected to the aircraft output circuit must be determined by manual means. Once determined, this value is converted into a store load multiplication factor and is then documented in columns 66-67.</p>			
		SHEET 1 OF 2	

CHARACTERISTIC TITLE: PARALLEL AIRCRAFT CIRCUITS	NO. A313
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REMARKS

The procedure to be used for determining the correct store load multiplication factor is as follows:

- a) Summate the total steady state current load of all parallel circuits that are connected to the aircraft output circuit. The circuit load of the station being documented should be excluded from this summation.
- b) Compare the value summated in paragraph a) with the steady state current value documented in characteristic A307, and determine how many times greater the total stations/aircraft load is with respect to the load of the circuit being documented.
- c) The multiple determined in paragraph b) is the multiplication factor that should be documented in columns 66-67. This factor value should be converted to the closest integer (whole) number.

SHEET 2 OF 2

CHARACTERISTIC TITLE: SUMMATE PARALLEL CIRCUIT STORE LOAD		NO. A314	
DEFINITION			
Indicates that the respective aircraft output circuit has parallel connections to other aircraft station interface connectors and/or other aircraft component loads.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
68	SEA-2	A1	Summate Parallel Circuit Store Load
REMARKS:			
Refer to characteristic A313 for applicable remarks.			
A same code letter (A to Z) should be documented in column 68 for all other interface circuits that are terminated at the same interface connector and are controlled from the same aircraft output circuit.			
A unique code letter should be assigned to those circuits associated with each different aircraft output circuit.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: MULTI-WIRE STORE CONNECTION		NO. A315	
DEFINITION			
Designates that the aircraft interface circuit is one of several parallel jumper wires that are connected to individual aircraft connector pins and have no other electrical function in the aircraft.			
CHARACTERISTIC BLOCK LETTER: C		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
21	SEA-2	A1	Multi-Wire Store Connection
REMARKS:			
<p>All interface connector pins that are jumpered together in the aircraft should be coded with a letter (A-Z). A unique letter should be used if more than one set of multi-wire connections are used by the aircraft interface connector.</p> <p>Refer to store characteristic E164 for additional remarks.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE:		CARD NUMBER		NO.	A325
DEFINITION					
Provides a means to identify data cards for deck set up purpose.					
CHARACTERISTIC BLOCK LETTER: C			SIGNAL CATEGORY: N/A		
CARD DATA:					
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE		
79	SEA-1	A1	Characteristic Block Letter C		
70 - 72	DI-1	I3	Store Group Code Number		
74 - 75	DI-1	I2	Susp. Device Group Code No.		
77 - 79	DI-1	I3	Circuit Card		
80	SEA-2	A1	Supplement Card Letter		
REMARKS:					
<p>The rationale used for the assignment of card numbers for characteristic data blocks C, D, E, and F is identical to that described for characteristic A110 with the following exceptions:</p> <p>Columns 70-72. These columns are used to document the store group (if applicable) associated with the interface circuit.</p> <p>Columns 74-75. These columns are used to document the suspension device group (if applicable) associated with the interface circuit.</p> <p>A data card must be provided for each pin associated with the aircraft interface connector. Unused connector pins should be identified with a blank card (except for card number).</p>					
					SHEET 1 OF 1

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT FUNCTION NO. (SIGNAL LOGIC FORMAT)		NO. A400	
DEFINITION			
Defines the aircraft circuit associated with each interface connector pin in coded form.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: ALL	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
1 - 2	DI-1	I2	Station Reference
4 - 6	DI-1	I3	Circuit
7	SEA-2	A1	Branch
8	SEA-2	A1	Ground
REMARKS:			
Refer to characteristic A200 for the rationale used to assign aircraft circuit function numbers.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: RELEASE OPERATE FUNCTION PYLON JETTISON CIRCUITS		NO. A401	
DEFINITION			
Defines the usage of aircraft pylon jettison circuits terminated at the aircraft weapon station.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Release Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
10	SSM-2	4A1	Selective
11			Combat
12			Emergency
13			(not used)
REMARKS:			
<p>Column 10. The selective choice should be used if the aircraft pylon jettison circuit is controlled by a means which enables the pilot to select individual (or pairs) of weapon station pylons for jettison purposes.</p> <p>Column 11. The combat choice should be used if the aircraft pylon jettison circuit is controlled by a means which permits the jettison all pylons that may be carrying non-air to air ordance.</p> <p>Column 12. The emergency choice should be used if the aircraft pylon jettison circuit is controlled by a means that initiates the jettison of all pylons, regardless of the store types they may be carrying.</p> <p>This characteristic is not functional with any of the Phase 1 or 2 analytical computer programs. The AFATL Store Data File does not include any interface data for pylon interface connections.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: RELEASE OPERATE FUNCTION BOMB RACK CIRCUITS		NO. A402	
DEFINITION			
Defines the usage of aircraft release circuits terminated at the aircraft weapon station bomb rack.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Release Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
14	SSM-2	5A1	Normal Eject
15			Auxiliary Eject
16			Selective Store Jettison
17			Combat Store Jettison
18			(Not Used)
REMARKS:			
<p>Column 14. The normal eject choice should be used if the aircraft release circuit is provided for normal ejection (primary method used for delivering ordnance) of the store that is attached to the station bomb rack.</p> <p>Column 15. The auxiliary eject choice should be used if the aircraft release circuit is controlled by a means exclusively used for back up release of the store from the bomb rack.</p>			
SHEET 1 OF 2			

CHARACTERISTIC TITLE: RELEASE OPERATE FUNCTION- BOMB RACK CIRCUITS	NO. A402
REMARKS  Column 16. The selective store jettison choice should be used if the aircraft release circuit is controlled by a means exclusively used for jettisoning stores from selected station bomb racks.  Column 17. The combat store jettison choice should be used if the aircraft release circuit is controlled by a means exclusively used for jettisoning all non-air to air ordnance from their respective aircraft weapons station bomb racks.	
SHEET 2 OF 2	

CHARACTERISTIC TITLE:		RELEASE OPERATE FUNCTION - LAUNCHER CIRCUITS	NO. A403
DEFINITION		Defines the usage of aircraft release circuits terminated at the aircraft weapon station launcher.	
CHARACTERISTIC BLOCK LETTER:		D	SIGNAL CATEGORY: Release only
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE VALUE
19	SSM-2	8A1	Launch Initiate
20			Store Launch Command
21			Launch Normal
22			Launch Jettison
23			Eject Jettison
24			(Not used)
25			(Not used)
26			(Not used)
REMARKS:		<p>Column 19. The launch initiate choice should be used if the aircraft release circuit logic is designed to initiate a launch sequence between the aircraft and the store.</p> <p>Column 20. The store launch command choice should be used if the aircraft release circuit logic is designed to accept a launch/eject command signal that is generated within the launcher or by its attached store.</p> <p>Column 21. The launch normal choice should be used if the aircraft release circuit logic is designed directly to launch a store(s) from the launcher. This circuit type choice may also be used for store interface functions that normally occur simultaneously with store launch.</p>	
			SHEET 1 OF 2.



CHARACTERISTIC TITLE: RELEASE OPERATE FUNCTION - STORE INTERFACE CIRCUITS		NO. A404																																
DEFINITION	<p>Defines the usage of aircraft release circuits terminated at the aircraft weapon station interface connector.</p>																																	
CHARACTERISTIC BLOCK LETTER: D	SIGNAL CATEGORY: Release Only																																	
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>27</td> <td>SSM-2</td> <td>7A1</td> <td>Sub Rack Eject/Jettison</td> </tr> <tr> <td>28</td> <td></td> <td></td> <td>Store Dispense</td> </tr> <tr> <td>29</td> <td></td> <td></td> <td>Store Firing</td> </tr> <tr> <td>30</td> <td></td> <td></td> <td>Launch Initiate</td> </tr> <tr> <td>31</td> <td></td> <td></td> <td>Store Launch Command</td> </tr> <tr> <td>32</td> <td></td> <td></td> <td>Launch Signal</td> </tr> <tr> <td>33</td> <td></td> <td></td> <td>Store Step Only</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	27	SSM-2	7A1	Sub Rack Eject/Jettison	28			Store Dispense	29			Store Firing	30			Launch Initiate	31			Store Launch Command	32			Launch Signal	33			Store Step Only
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE																															
27	SSM-2	7A1	Sub Rack Eject/Jettison																															
28			Store Dispense																															
29			Store Firing																															
30			Launch Initiate																															
31			Store Launch Command																															
32			Launch Signal																															
33			Store Step Only																															
REMARKS:	<p>Column 27. The Sub Rack Eject/Jettison choice should be used if the aircraft release circuit logic is designed to eject or jettison stores from secondary bomb racks that are connected to multiple and triple ejector racks.</p> <p>Column 28. The Store Dispense choice should be used if the aircraft release circuit logic is designed to initiate the dispensing of sub munitions from airborne dispensers.</p>																																	
		SHEET 1 OF 2																																

CHARACTERISTIC TITLE: RELEASE OPERATE FUNCTION  
STORE INTERFACE CIRCUITS

NO.  
A404

REMARKS

Column 29. The Store Firing choice should be used if the aircraft release circuit logic is designed to initiate the firing of rocket pods, gun pods, and all other types of forward firing ordnance.

Columns 30 - 32 (same as characteristic A402)

Column 33. The Store Step Only choice should be used if the aircraft release circuit is exclusively used to control station stepper mechanisms that may be installed in multiple ejector racks (MER) or other similar stores.

SHEET 2 OF 2

CHARACTERISTIC TITLE: MASTER ARMAMENT SWITCH	NO. A405
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DEFINITION	Designates that the aircraft release circuit is directly or indirectly controlled by the aircraft's master armament switch.
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CHARACTERISTIC BLOCK LETTER: D	SIGNAL CATEGORY: Release & Control
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
34	SEX	A1	Master Arm Switch

REMARKS:	This column should be checked if the aircraft release circuit is used exclusively for the gun firing purposes and the aircraft is only equipped with a gun safety switch.
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SHEET 1 OF 1

CHARACTERISTIC TITLE: GROUND SAFETY		NO. A406								
DEFINITION	Designates that the aircraft release circuit is directly or indirectly controlled by an interlock circuit that will preclude circuit operation when the aircraft is not in flight.									
CHARACTERISTIC BLOCK LETTER:	D	SIGNAL CATEGORY: Release & Control								
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>35</td> <td>SEX</td> <td>A1</td> <td>Ground Safety</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	35	SEX	A1	Ground Safety
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
35	SEX	A1	Ground Safety							
REMARKS:	This column should be checked if the aircraft ground safety interlock is manually controlled by a toggle (or equivalent) switch.									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE: RELEASE INITIATE SWITCH		NO. A407	
DEFINITION			
Designates the aircraft switch used to initiate the aircraft release circuit.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Release Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
36	SSM-2	3A1	Bomb/Rocket Button
37			Trigger
38			Other
REMARKS:			
<p>Column 36. This column should be checked if the aircraft release circuit is directly or indirectly (via bombing computer, etc.) initiated by pressing the stick grip bomb/rocket button.</p> <p>Column 37. This column should be checked if the aircraft release circuit is directly or indirectly (via gun control box) initiated by pressing the stick grip trigger switch.</p> <p>Column 38. This column should be checked if the aircraft release circuit is initiated by a unique control switch.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: MONITOR OPERATE FUNCTION		NO. A408	
DEFINITION			
Defines the specific usage of the aircraft monitor circuit.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Monitor Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
40	SSM-2	4A1	Display Store Presense
41			Store Identification
42			Circuit Switching Logic
43			Store Quantity
REMARKS:			
Column 40.	This column should be checked if the aircraft monitor circuit logic is designed to accept a discrete signal from the store that indicates the presense or absense of a store.		
Column 41.	This column should be checked if the aircraft monitor circuit logic is designed to accept a discrete or digital signal from the store that may be used for store type identification purposes.		
Column 42.	This column should be checked if the aircraft monitor circuit logic is designed to use this input connection for sensing an electrical event that occurs within the store that is not directly related to the display of store status information.		
			SHEET 1 OF 2

CHARACTERISTIC TITLE:      MONITOR OPERATE FUNCTION	NO. A408
REMARKS	<p>Column 43. This column should be checked if the aircraft monitor circuit logic is designed to accept a digital signal from the store that indicates the quantity of stores or sub-munitions remaining.</p>
SHEET 2 OF 2	

CHARACTERISTIC TITLE: CIRCUIT MONITOR POINT NO. A409

DEFINITION  
Designates the termination point of the Aircraft Monitor Circuit

CHARACTERISTIC BLOCK LETTER: D SIGNAL CATEGORY: Monitor Only

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
44	SSM-2	2A1	Suspension Device
45			Store

REMARKS:

CHARACTERISTIC TITLE: STATION MONITOR POINT		NO. A410	
DEFINITION			
Designates that the aircraft monitor circuit terminates at a point in the aircraft's weapon station pylon or adapter, and has no direct interface with a store or suspension device.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Monitor Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
46	SEX	A1	Station Monitor Point
REMARKS:			
<p>This characteristic is provided for data file growth purposes only and is not used by any of the Phase 1 or 2 analytical computer programs.</p> <p>At present, the AFATL store data file does not include interface data for pylons or adapters.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: OPERATIONAL STATUS DISPLAY NOMENCLATURE CODE NUMBER		NO. A411	
DEFINITION			
Designates a code number that is used by the system to determine the compatibility between aircraft operational status display message provisions and store operational status display message requirements.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Monitor Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
47 - 49	DI-2	I3	Operational Status Display Code Number
REMARKS:			
Operational status code numbers (1 to 999) may be used in conjunction with a hard copy code number/status display message nomenclature dictionary for display message correlation purposes.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: SPARE DISPLAY AVAILABLE		NO. A412	
DEFINITION			
Designates that the aircraft stores management system has the ability to accommodate any required display message by software changes only.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Monitor Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
50	SEX	A1	Spare Display Available
REMARKS:			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: INFLIGHT SELECTION		NO. A413
DEFINITION		
<p>Defines the method used in the aircraft to control the operation of the aircraft interface circuit.</p>		
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Control Only
CARD DATA:		
COLUMN(S)	STYLE	CHOICE/VALUE
51	SSM-2	2A1 Direct Option
52		Automatic Control
REMARKS:		
<p>Column 53. This column should be checked if the aircraft control circuit is directly or indirectly controlled by the pilot for inflight management of store functions.</p> <p>Column 54. This column should be checked if the aircraft control circuit is operated by an automatic means. Meaning, the circuit is applied to the store interface when power is applied to the aircraft, the station is selected, an overload condition is detected, or any other similar condition that is not under direct control of the pilot.</p>		
		SHEET 1 OF 1

CHARACTERISTIC TITLE:		CONTROL LOGIC BREAK		NO.	A414
DEFINITION		<p>Defines the complexity of the logic used in the aircraft for controlling the respective interface circuit.</p>			
CHARACTERISTIC BLOCK LETTER:		D	SIGNAL CATEGORY: Control Only		
CARD DATA:					
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE		
53	SSM-2	2A1	Single Break		
54			Multiple Break		
REMARKS:		<p>Column 53. This column should be checked if the aircraft circuit is controlled by a single pilot switching action. Meaning, the circuit is not influenced by other logic that may effect the operation of the circuit.</p> <p>Column 54. This column should be checked if the aircraft circuit is controlled by a complex of inter-relating logic switching events.</p>			
					SHEET 1 OF 1

CHARACTERISTIC TITLE: POWER SIGNAL LOGIC		NO. A415
DEFINITION  Designates the usage of aircraft interface circuits assigned to the power signal category.		
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Power Only
CARD DATA:		
COLUMN(S)	STYLE	FORMAT CHOICE/VALUE
55	SSM-2	3A1 Power Source
56		Power Return
57		Circuit Shield
REMARKS:  <p>Column 55. This column should be checked if the aircraft interface circuit is used for applying power (AC or DC) to the equipment interface connection.</p> <p>Column 56. This column should be checked if the aircraft interface circuit is a power return (ground) circuit.</p> <p>Column 57. This column should be checked if the aircraft interface circuit is used to terminate the shield of a shielded or coaxial cable.</p>		
		SHEET 1 OF 1

CHARACTERISTIC TITLE: SENSOR CIRCUIT SIGNAL FORM/ LOGIC CHARACTERISTIC CODE NO.		NO. A416								
DEFINITION	Designates a code number that is used to identify the signal form and logic characteristics of sensor type aircraft interface circuits.									
CHARACTERISTIC BLOCK LETTER: D	SIGNAL CATEGORY: Sensor Only									
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>58 - 61</td> <td>DI-2</td> <td>I4</td> <td>Sensor Circuit Code No.</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	58 - 61	DI-2	I4	Sensor Circuit Code No.
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
58 - 61	DI-2	I4	Sensor Circuit Code No.							
REMARKS:	Refer to characteristic A312 for applicable remarks.									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE: STATION ISOLATION NO. A417

DEFINITION  
Designates that the aircraft interface circuit is not connected to more than one station interface connector.

CHARACTERISTIC BLOCK LETTER: D SIGNAL CATEGORY: ALL

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
62	SEX	A1	Station Isolation

REMARKS:

CHARACTERISTIC TITLE: UNIQUENESS		NO. A418	
DEFINITION			
Designates that the aircraft interface circuit is used for a specific function which is dedicated to a certain type store.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
63	SEX	A1	Uniqueness
REMARKS:			
This characteristic mainly applies to aircraft circuits that are used to control critical special weapon control and lock circuitry.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: STATION SELECT		NO. A419	
DEFINITION			
Designates that the aircraft interface circuit is controlled by a network that includes station selection logic.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
64	SEX	A1	Station Select
REMARKS:			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: CONTROL CIRCUIT LOGIC OPERATE FUNCTION CODE NO.		NO. A420	
DEFINITION			
Designates a code number that may be used to describe the exact logic used in the aircraft to control the interface circuit.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: Control Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
65 - 68	DI-2	I4	Control Circuit Logic Operate Function Code No.
REMARKS:			
This characteristic is non-functional and is provided on the data documentation format for system growth purpose only.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE:	OPERATIONAL STATUS (MONITOR DISPLAY CIRCUITS)	NO. A421
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DEFINITION	Designates that the aircraft monitor circuit is able to display a status message that is required by the respective aircraft/store interface circuit.
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CHARACTERISTIC BLOCK LETTER: D	SIGNAL CATEGORY: Monitor Only
--------------------------------	-------------------------------

CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
39	SEX	A1	Operational Status Display

REMARKS:	Characteristic A421 is used in conjunction with characteristic A411 to define the operational status message associated with the interface circuit.
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CHARACTERISTIC TITLE: CARD NUMBER		NO. A425	
DEFINITION			
Provides a means to identify data cards for deck set up purposes.			
CHARACTERISTIC BLOCK LETTER: D		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
69	SEA-1	A1	Characteristic Data Block D
70 - 72	DI-1	I3	Store Group Code No.
74 - 75	DI-1	I2	Susp Device Group Code No.
77 - 79	DI-1	I3	Circuit Card
80	SEA-2	A1	Supplement Card Letter
REMARKS:			
Refer to characteristic A325 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT FUNCTION NO. (SWITCHING FORM/TIME FORMAT)	NO. A500																				
DEFINITION:																					
Defines the aircraft circuit associated with each interface connector pin in coded form.																					
CHARACTERISTIC BLOCK LETTER: E	SIGNAL CATEGORY: All																				
CARD DATA:																					
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">COLUMN(S)</th> <th style="text-align: left;">STYLE</th> <th style="text-align: left;">FORMAT</th> <th style="text-align: left;">CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>1 - 2</td> <td>DI-1</td> <td>I2</td> <td>Station Reference</td> </tr> <tr> <td>4 - 6</td> <td>DI-1</td> <td>I3</td> <td>Circuit</td> </tr> <tr> <td>7</td> <td>SEA-2</td> <td>A1</td> <td>Branch</td> </tr> <tr> <td>8</td> <td>SEA-2</td> <td>A1</td> <td>Ground</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	1 - 2	DI-1	I2	Station Reference	4 - 6	DI-1	I3	Circuit	7	SEA-2	A1	Branch	8	SEA-2	A1	Ground
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE																		
1 - 2	DI-1	I2	Station Reference																		
4 - 6	DI-1	I3	Circuit																		
7	SEA-2	A1	Branch																		
8	SEA-2	A1	Ground																		
REMARKS:																					
Refer to characteristic A200 for the rationale used to assign aircraft circuit function numbers.																					
SHEET 1 OF 1																					

CHARACTERISTIC TITLE: CIRCUIT SWITCHING FORM - I/O POWER SOURCE		NO. A501	
DEFINITION			
Designates the interface circuit power source location.			
CHARACTERISTIC BLOCK LETTER: E		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
10	SSM-1	3A1	Aircraft Output Circuit
11			Aircraft Input Circuit
12			Other
REMARKS:			
Refer to characteristic A216 for applicable remarks.			
Column 12. This column should be checked if the aircraft circuit is used to terminate a wire shield, or is a multi-wire connection as defined in characteristic A315.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT SWITCHING FORM-AIRCRAFT OUTPUT CIRCUITS		NO. A502	
DEFINITION			
Designates the type of aircraft output circuit used to control the time duration of the respective interface circuit.			
CHARACTERISTIC BLOCK LETTER: E		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
14	SSM-2	4A1	Maintained
15			Momentary
16			Pulsed
17			Non Switched
REMARKS:			
<p>Column 14. This column should be checked if the aircraft output circuit generates a continuous signal that can be switched to an off-state.</p> <p>Column 15. This column should be checked if the aircraft output circuit generates a momentary signal.</p> <p>Column 16. This column should be checked if the aircraft output circuit generates a pulsating DC signal.</p> <p>Column 17. This column should be checked if the aircraft output circuit is directly connected to a power source.</p>			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: <b>CIRCUIT SWITCHING FORM - AIRCRAFT INPUT CIRCUITS</b>		NO. <b>A503</b>	
DEFINITION			
Designates the type of store output circuit required for normal aircraft interface circuit operation.			
CHARACTERISTIC BLOCK LETTER: <b>E</b>		SIGNAL CATEGORY: <b>All except Sensor</b>	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
20	MSM-2	5A1	Maintained
21			Momentary
22			Pulsed
23			Non Switched
24			Optional
REMARKS:			
Column 20. This column should be checked if the aircraft input circuit requires a maintained on or off signal from the store.			
Column 21. This column should be checked if the aircraft input circuit requires a momentary on or off signal from the store.			
Column 22. This column should be checked if the aircraft input circuit requires a pulsating DC signal from the store.			
Column 23. This column should be checked if the aircraft input circuit requires that the store signal be non switched and directly connected to a power source.			
Column 24. This column should be checked if the aircraft input circuit is capable of being operated from any type of store output circuit.			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: AIRCRAFT OUTPUT CIRCUIT COMPONENT IDENTIFICATION CODE NO.		NO. A504	
DEFINITION			
Designates a code number that may be used to identify the type and part number of the primary aircraft output circuit switching device.			
CHARACTERISTIC BLOCK LETTER: E		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
25 - 27	DI-2	I3	Component Ident Code No.
REMARKS:			
<p>This characteristic code number may be used in conjunction with a hard copy code number/output circuit component identification dictionary for data correlation purposes.</p> <p>This characteristic is not used by any of the Phase 1 or 2 analytical computer programs.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: CIRCUIT INITIATE DELAY TIME - VARIABLE SETTING		NO. A505	
DEFINITION			
Designates that the aircraft contains a means to vary the time between circuit initiate and actual application of the output signal to the store interface connection.			
CHARACTERISTIC BLOCK LETTER: E		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
28	SEX	A1	Variable Setting
REMARKS:			
<p>Characteristics A505, A506, and A507 are all related to circuit initiate delay time documentation for either aircraft output or aircraft input interface circuits.</p> <p>If the circuit being documented is an aircraft output circuit the times documented in A506 and A507 should specify the extreme delay times that can be generated by the aircraft.</p> <p>If the circuit being documented is an aircraft input circuit, the times documented in A506 and A507 should specify the extreme delay times that can be accepted by the aircraft for normal circuit operation.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT INITIATE DELAY TIME - MINIMUM TIME (Sec)	NO. A506
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DEFINITION
Designates the minimum time the aircraft output circuit may be adjusted (or is fixed) to delay the time between circuit initiate and the actual application of the output signal to the store interface connection.

CHARACTERISTIC BLOCK LETTER: E	SIGNAL CATEGORY: All Except Sensor
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
29 - 32	DR-2	F4.0	Minimum (Sec)

REMARKS:
Refer to characteristic A505 for applicable remarks.

SHEET 1 OF 1
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CHARACTERISTIC TITLE: <b>CIRCUIT INITIATE DELAY TIME - MAXIMUM TIME (Sec)</b>		NO. <b>A507</b>	
DEFINITION			
Designates the maximum time the aircraft output circuit may be adjusted (or is fixed) to delay the time between circuit initiate and the actual application of the output signal to the store interface connection.			
CHARACTERISTIC BLOCK LETTER: <b>E</b>		SIGNAL CATEGORY: <b>All Except Sensor</b>	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
33 - 36	DR-2	F4.0	Maximum (Sec)
REMARKS:			
Refer to characteristic A505 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT ON OR OFF TIME - VARIABLE SETTING		NO. A508			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 2px;">DEFINITION</td> <td colspan="2" style="padding: 5px;"> <p>Designates that the aircraft contains a means to vary the time duration (on or off) of the output signal that is applied to the store interface connection.</p> </td> </tr> </table>			DEFINITION	<p>Designates that the aircraft contains a means to vary the time duration (on or off) of the output signal that is applied to the store interface connection.</p>	
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CHARACTERISTIC BLOCK LETTER: E		SIGNAL CATEGORY: All Except Sensor			
CARD DATA:					
COLUMN(S)	STYLE	CHOICE/VALUE			
38	SEX	A1 Variable Setting			
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REMARKS:	<p>Characterics A508, A509, A510, and A511 are all related to circuit on/off time documentation for either aircraft output or aircraft input interface circuits.</p> <p>If the circuit being documented is an aircraft output circuit the times documented in A509 and A510 should specify the extreme on or off times of momentary (or pulsed) aircraft output signals. Characteristic A511 should be checked if the aircraft output circuit is a maintained or non switched signal.</p> <p>If the circuit being documented is an aircraft input signal, the times documented in A509 and A510 should specify the extreme on or off time that can be accepted by the aircraft for normal circuit operation. Characteristic A511 should be checked if the aircraft circuit requires a maintained or non switched signal.</p>				
		SHEET 1 OF 1			

CHARACTERISTIC TITLE: CIRCUIT ON OR OFF TIME - MINIMUM TIME (Sec)		NO. A509	
DEFINITION			
Designates the minimum time the aircraft output circuit may be adjusted (or is fixed) to maintain the interface signal in an on or off state at the store interface connection.			
CHARACTERISTIC BLOCK LETTER: E		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
39 - 42	DR-2	F4.0	Minimum (Sec.)
REMARKS:			
Refer to characteristic A508 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT ON OR OFF TIME - MAXIMUM TIME (Sec)	NO. A510
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DEFINITION

Designates the maximum time the aircraft output circuit may be adjusted (or is fixed) to maintain the interface signal in an on or off state at the store interface connection.

CHARACTERISTIC BLOCK LETTER: E

SIGNAL CATEGORY: All Except Sensor

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
43 - 46	DR-2	F4.0	Maximum (Sec )

REMARKS:

Refer to characteristic A508 for applicable remarks.

CHARACTERISTIC TITLE:      CIRCUIT ON OR OFF TIME - INDEFINITE		NO. A511	
DEFINITION			
Designates that the aircraft output circuit is a continuous signal, or designates that an aircraft input circuit requires a continuous output signal from the store for normal aircraft circuit operation.			
CHARACTERISTIC BLOCK LETTER:    E		SIGNAL CATEGORY:    All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
47	SEX	A1	Indefinite
REMARKS:			
See characteristic A508 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: <b>CIRCUIT DROPOUT DELAY TIME - VARIABLE SETTING</b>		NO. <b>A512</b>	
DEFINITION			
Designates that the aircraft contains a means to vary the time between circuit reactivate and actual removal of the output signal from the store interface connection.			
CHARACTERISTIC BLOCK LETTER: <b>E</b>		SIGNAL CATEGORY: <b>All Except Sensor</b>	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
49	SEX	A1	Variable Setting
REMARKS:			
<p>Characteristics A512, A513, and A514 are all related to circuit dropout delay time documentation for either aircraft output or aircraft input interface circuits.</p> <p>If the circuit being documented is an aircraft output circuit, the times documented in A513 and A514 should specify the extreme delay times that can be generated by the aircraft.</p> <p>If the circuit being documented is an aircraft input circuit, the times documented in A513 and A514 should specify the extreme delay times that can be accepted by the aircraft for normal circuit operation.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT DROPOUT DELAY TIME - MINIMUM TIME (Sec )	NO. A513
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DEFINITION

Designates the minimum time the aircraft output circuit may be adjusted (or is fixed) to delay the time between circuit deactivate and actual removal of the output signal from the store interface connection.

CHARACTERISTIC BLOCK LETTER: E

SIGNAL CATEGORY: All Except Sensor

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
50 - 53	DR-2	F4.0	Minimum (Sec )

REMARKS:

Refer to characteristic A512 for applicable remarks.

SHEET 1 OF 1

CHARACTERISTIC TITLE: CIRCUIT DROPOUT DELAY TIME - MAXIMUM TIME (Sec )		NO. A514	
DEFINITION			
Designates the maximum time the aircraft output circuit may be adjusted (or is fixed) to delay the time between circuit deactivate and actual removal of the output signal from the store interface connection.			
CHARACTERISTIC BLOCK LETTER: E		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
54 - 57	DR-2	F4.0	Maximum (Sec )
REMARKS:			
Refer to characteristic A512 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE:		CIRCUIT (OFF) DWELL TIME - VARIABLE SETTING	NO. A515
DEFINITION			
Designates that the aircraft contains a means to vary the off time between positive power pulses generated by pulsed type aircraft output circuits.			
CHARACTERISTIC BLOCK LETTER:		E	SIGNAL CATEGORY: All Except Sensor
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
59	SEX	A1	Variable Setting
REMARKS:			
<p>Characteristics A515, A516, and A517 are all related to circuit dwell time documentation for either aircraft output or aircraft input interface circuits.</p> <p>If the circuit being documented is an aircraft output circuit, the times documented in A516 and A517 should specify the extreme circuit off dwell times that can be controlled by the aircraft.</p> <p>If the circuit being documented is an aircraft input circuit, the times documented in A516 and A517 should specify the extreme circuit off dwell times that can be accepted by the aircraft for normal circuit operation.</p>			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: CIRCUIT (OFF) DWELL TIME - MINIMUM TIME (Sec )		NO. A516	
DEFINITION			
Designates the minimum time the aircraft output circuit may be adjusted (or is fixed) to control the off time between positive power pulses generated by pulsed type aircraft output circuits.			
CHARACTERISTIC BLOCK LETTER: E		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
60 - 63	DR-2	F4.0	Minimum (Sec )
REMARKS:			
Refer to characteristic A515 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT (OFF) DWELL TIME - MAXIMUM TIME (Sec )		NO. A517	
DEFINITION			
Designates the maximum time the aircraft output circuit may be adjusted (or is fixed) to control the off time between positive power pulses generated by pulsed type aircraft output circuits.			
CHARACTERISTIC BLOCK LETTER: E	SIGNAL CATEGORY: All Except Sensor		
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
64 - 67	DR-2	F4.0	Maximum (Sec )
REMARKS:			
Refer to characteristic A515 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: NORMALLY CLOSE SWITCH BREAK		NO. A520	
DEFINITION  Designates aircraft output circuit characteristics associated with interface circuit interrupt signals.			
CHARACTERISTIC BLOCK LETTER: E		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
18	MSM-2	2A1	Exists in Aircraft
19			Required in Store
REMARKS:			
<p>Column 18. This column should be checked if the aircraft output signal is normally in an on state (true) when the output circuit is inactive (not actuated), and is set to an off state (false) when the aircraft output circuit is active (actuated).</p> <p>Column 19. This column should be checked if the aircraft output circuit is dependent on a normally closed switch break (in the store) to open for correct aircraft circuit operation.</p> <p>This characteristic is non-functional and is provided on the data documentation format for data file growth purposes only.</p>			
			SHEET 1 OF 1

CHARACTERISTIC TITLE:		CARD NUMBER	NO. A525
DEFINITION			
Provides a means to identify data cards for deck set up purposes.			
CHARACTERISTIC BLOCK LETTER:		E	SIGNAL CATEGORY: N/A
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
69	SEA-1	A1	Characteristic Data Block E
70 - 72	DI-1	I3	Store Group Code No.
74 - 75	DI-1	I2	Susp Device Group Code No.
77 - 79	DI-1	I3	Circuit Card
80	SEA-2	A1	Supplement Card Letter
REMARKS:			
Refer to characteristic A325 for applicable remarks.			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT FUNCTION NO. (SIGNAL SEQUENCE FORMAT)	NO. A600																						
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SHEET 1 OF 1																							

CHARACTERISTIC TITLE: AIRCRAFT INTERFACE CONNECTION - CONNECTOR IDENTIFICATION CODE NO.		NO. A600A	
DEFINITION			
Designates the equipment group applicability of the aircraft interface connector associated with the respective interface circuit in coded form.			
CHARACTERISTIC BLOCK LETTER: F		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
10 - 12	DI-1	I3	Connector Identification Code Number
REMARKS:			
Refer to characteristic A101 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: AIRCRAFT INTERFACE CONNECTION - CONNECTOR PIN IDENTIFICATION		NO. A600B	
DEFINITION			
Designates the pin number or letter associated with the aircraft/ store interface connection.			
CHARACTERISTIC BLOCK LETTER: F		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
14 - 15	AN or DI-1	A2	Letter/Number
16	SEX	A1	Lower Case
REMARKS:			
Refer to characteristic A204 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: READ NEXT CIRCUIT CARD (MFC)		NO. None	
DEFINITION  Provides a cue to the systems computer program to advise that the next circuit data card is a branch of a multi-function aircraft circuit, and is connected to the same connector pin.			
CHARACTERISTIC BLOCK LETTER: F		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
17	SEX	Al	Read Next Circuit Card
REMARKS:			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: INTERFACE CIRCUIT SIGNAL FUNCTION		NO. A601
DEFINITION		
Designates a function type for each aircraft interface circuit to identify the inter-relationship of all signals terminated at the aircraft/store interface connection.		
CHARACTERISTIC BLOCK LETTER: F		SIGNAL CATEGORY: All
CARD DATA:		
COLUMN(S)	STYLE	FORMAT CHOICE/VALUE
18	SSM-1	6A1 Prime Function Signal
19		Support Function Signal
20		Direct Power Return Circuit
21		Cable Shield Circuit
22		(Not Used)
23		(Not Used)
REMARKS:		
<p>Characteristics A601 and A602 are used to identify the overall on/off relationship of all aircraft circuits terminated at the aircraft/store interface connection. Essentially, each aircraft circuit is referenced to all other circuits by means of a data card matrix. If a signal is designated as a Prime Function Circuit, the status of all other associated aircraft interface circuits are specified on the same data card (refer to Figure 13 of AFATL TR-75-3, Volume I).</p> <p>Two card columns are provided for each associated aircraft interface circuit.</p> <p>The odd number column is used to indicate that the associated interface circuit is either active (present) or inactive (inhibited) when the prime function signal is not present (false) at the aircraft/store interface connection. The code letter "A" should be documented in the odd number column if the associated interface circuit is normally</p>		
		SHEET 1 OF 2

CHARACTERISTIC TITLE: INTERFACE CIRCUIT SIGNAL FUNCTION	NO. A601		
<table border="1" style="width: 100%;"> <tr> <td data-bbox="366 353 579 409">REMARKS</td> <td data-bbox="579 353 1510 1960"> <p>active, or the code letter "I" should be documented if it is inactive. This procedure should be repeated for all the circuits that comprise the total aircraft interface connection. Unused pin connection columns should be left blank.</p> <p>The even number card columns are used to indicate that the associated interface circuit is either active or inactive when the prime function signal is present (true) at the aircraft interface connection. The same card column documentation procedures as described for the not present (false) signal apply. The following rationale should be used to assign function types to aircraft interface circuits:</p> <p>Column 18. This column should be checked if the interface circuit is used to control a function that is directly used to initiate the arming, release, or jettison of the store. Signals that are used to transmit video or audio data, or are provided to actuate unique control circuits, are also to be considered as prime function circuits.</p> <p>Column 19. This column should be checked if the interface circuit is used to condition or make ready the operation of a prime function circuit. Examples of Support Function Signals are: Interlock Circuits, Operational Status Monitor Signals, Store Identification/Present Signals, etc.</p> <p>Column 20. This column should be checked if the interface circuit is a power return (ground) signal that contains no switching logic.</p> <p>Column 21. This column should be checked if the interface circuit is used to terminate the shield of a shielded wire or coaxial cable.</p> </td> </tr> </table>		REMARKS	<p>active, or the code letter "I" should be documented if it is inactive. This procedure should be repeated for all the circuits that comprise the total aircraft interface connection. Unused pin connection columns should be left blank.</p> <p>The even number card columns are used to indicate that the associated interface circuit is either active or inactive when the prime function signal is present (true) at the aircraft interface connection. The same card column documentation procedures as described for the not present (false) signal apply. The following rationale should be used to assign function types to aircraft interface circuits:</p> <p>Column 18. This column should be checked if the interface circuit is used to control a function that is directly used to initiate the arming, release, or jettison of the store. Signals that are used to transmit video or audio data, or are provided to actuate unique control circuits, are also to be considered as prime function circuits.</p> <p>Column 19. This column should be checked if the interface circuit is used to condition or make ready the operation of a prime function circuit. Examples of Support Function Signals are: Interlock Circuits, Operational Status Monitor Signals, Store Identification/Present Signals, etc.</p> <p>Column 20. This column should be checked if the interface circuit is a power return (ground) signal that contains no switching logic.</p> <p>Column 21. This column should be checked if the interface circuit is used to terminate the shield of a shielded wire or coaxial cable.</p>
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SHEET 2 OF 2			

CHARACTERISTIC TITLE: INTERFACE SIGNAL SWITCHING SEQUENCE ORDER	NO. A601A
--	--------------

DEFINITION

Designate the sequence in which aircraft circuits are applied to, or are received from the aircraft/store interface connection.

CHARACTERISTIC BLOCK LETTER: F	SIGNAL CATEGORY: All
--------------------------------	----------------------

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
28 - 29	AN or DI-2	A2	Interface Signal Switching Sequence Order

REMARKS:

This characteristic uses a code number (1-99) or the letter (0) to specify the order of switching events that will take place (or is required) at the aircraft/store interface, based on the detail design of the aircraft's stores management system.

The number "1" should be documented in Column 29 for all aircraft/store connections that are normally made when the store is connected to the aircraft, and power is applied to the stores management system.

Subsequent numbers (numerical order) should then be documented in columns 28-29 to indicate the order in which a circuit, or group of circuits, are made active at the aircraft/store interface connection as a result of aircraft stores management or store switching logic. All events that take place concurrently, should be documented with the same sequence order number.

CHARACTERISTIC TITLE:  
INTERFACE SIGNAL SWITCHING SEQUENCE ORDER

NO.  
A601A

REMARKS

This procedure should be followed for designating the sequence of all circuits (or groups of circuits) as they are applied to the interface connector. Certain interface circuits may be optionally controlled by the pilot by direct or indirect means. If the circuit being documented has this feature, the letter "O" should be documented in Column 29.

Interface signals that are generated by the store, and are used to control an essential aircraft circuit, should use a unique sequence order number. The number used should complement the switching sequence order established for the interface.

SHEET 2 OF 2

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT DATA CARD MATRIX- ASSOCIATED AIRCRAFT INTERFACE CIRCUITS		NO. A602	
DEFINITION			
Facilitates documentation which defines the on/off status of all aircraft circuits terminated at the aircraft/store interface connection.			
CHARACTERISTIC BLOCK LETTER: F		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
31 - 65 (all odd numbered columns)	AN-2	A1	(Status of associated circuit when prime function circuit is false)
32 - 66 (all even numbered columns)	AN-2	A1	(Status of associated circuit when prime function circuit is true)
67	SEX	A1	Continuation
REMARKS:			
Refer to characteristic A601 for applicable remarks.			
Column 67. This column should be checked if the required quantity of associated interface circuits exceed the card column limits of the data card, and a second card is used.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE:		I/O POWER SOURCE	NO.	A603												
DEFINITION		Designates the interface circuit power source location.														
CHARACTERISTIC BLOCK LETTER:		F	SIGNAL CATEGORY: All													
CARD DATA:		<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>SSM-2</td> <td>2A1</td> <td>Aircraft Output</td> </tr> <tr> <td>25</td> <td></td> <td></td> <td>Aircraft Input</td> </tr> </tbody> </table>			COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	24	SSM-2	2A1	Aircraft Output	25			Aircraft Input
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE													
24	SSM-2	2A1	Aircraft Output													
25			Aircraft Input													
REMARKS:		Refer to characteristic A216 for applicable remarks.														
				SHEET 1 OF 1												

CHARACTERISTIC TITLE:		NO.																										
CARD NUMBER		A625																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 5px;">DEFINITION</td> <td style="padding: 5px;"> <p style="margin: 0;">Provides a means to identify data cards for deck set up purposes.</p> </td> </tr> </table>			DEFINITION	<p style="margin: 0;">Provides a means to identify data cards for deck set up purposes.</p>																								
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		SHEET 1 OF 1																										

## APPENDIX III

### EQUIPMENT CHARACTERISTICS DEFINITION SHEETS

#### I. ATTACHMENTS

The attached sheets provide format information and data documentation rationale for the Equipment Data Documentation Formats shown in Figures 14 through 21.

CHARACTERISTIC TITLE: STORE OR SUSPENSION DEVICE NOMENCLATURE		NO. E101	
DEFINITION			
Designates the actual part number identification of the store or suspension device.			
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
1 - 10	AN-1	1A4, 2A4	Store or Suspension Device Nomenclature
REMARKS:			
Any combination of letters, numbers or symbols may be entered in these columns, MK117(ret), CBU-1A/A, AERO-3B, etc.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: STORE OR SUSPENSION DEVICE IDENTIFICATION		NO. E102	
DEFINITION			
Designates the part number of a store or suspension device in coded form.			
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
13 - 21	DI-1	2A4, A1	Store or Suspension Device Identification
REMARKS:			
<p>Card Columns 13 and 14 are used to identify the equipment class (01 through 13).</p> <p>Card Columns 16 and 17 are used to identify the equipment type within a class.</p> <p>Card Columns 19 and 20 are used to serialize the specific store within its equipment type.</p> <p>A complete catalog of all the equipments contained in the AFATL Store Data File, including their assigned code numbers may be obtained by contacting ADTC/DLJA, Eglin AFB.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: SECURITY CLASSIFICATION		NO. E103	
DEFINITION			
Designates the security level associated with the documented store data.			
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
23	SSM-2	5A1	"U"
24	(not used)		"C"
25			"CRD"
26			"S"
27			"SRD"
REMARKS:			
This characteristic is not used in the present AFATL Store Data File.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: ELECTRICAL CONNECTOR TYPE NUMBER		NO. E104	
DEFINITION			
Designation of the actual part number of the equipment connector that is to be mated to the aircraft.			
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
31 - 48	AN-1	4A4, A2	Electrical Connector Type Number
REMARKS:			
Refer to characteristic E105 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: ELECTRICAL CONNECTOR CODE NUMBER		NO. E105	
DEFINITION			
Designates the equipment connector type number in coded form.			
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
49 -51	DI-1	I3	Electrical Connector Code Number
REMARKS:			
A three digit code number (001-999) is used to reference the store interface connector in a form that is suitable for data processing. Each different type connector part number is assigned a unique code number. A catalog of equipment connector part numbers vs. code number equivalents is available, and may be obtained by contacting ADTC/DLJA, Eglin AFB.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: NUMBER OF ACTIVE CIRCUITS		NO. E106	
DEFINITION			
Designates the number of pins used by the equipment interface connector for normal equipment operation functions.			
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
55 - 57	DI-1	I3	Number of Active Circuits
REMARKS:			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: NUMBER SPARE PINS		NO. E107	
DEFINITION  Designates the number of spare pins available at the equipment interface connector for growth/modification purposes.			
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
60 - 62	DI-1	I3	Number of Spare Pins
REMARKS:  Equipment interface connector pins that incorporate inactive (capped and stowed) wires, are considered as spare pins.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE:		CARD NUMBER	NO. E108
DEFINITION		Provides a means to identify data cards for deck set up purposes.	
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
71 - 72	DI-1	I6	Equipment Class No.
73 - 74			Equipment Type No.
75 - 76			Equipment Ident. No.
77	SEA-1	A1	Characteristic Block Letter I
78 - 80	DI-1	I3	Data Card
REMARKS:		Characteristic E102, card columns 71-76 are repeated for equipment code number reference purposes only.	
			SHEET 1 OF 1

CHARACTERISTIC TITLE: CIRCUIT NUMBER		NO. E109								
DEFINITION	References the equipment circuit associated with each active pin on the equipment interface connector.									
CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: All									
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>1 - 3</td> <td>DI-1</td> <td>I3</td> <td>Circuit Number</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	1 - 3	DI-1	I3	Circuit Number
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
1 - 3	DI-1	I3	Circuit Number							
REMARKS:	<p>Only active equipment interface circuits should be assigned a circuit number. If the equipment has more than one connector, the numbering sequence should continue. The highest circuit number used must be equal to the total amount of active pins contained on all equipment connectors associated with the store.</p> <p>The same circuit number must be used to identify the circuit on all data formats (signal form through signal sequence).</p>									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE: CIRCUIT FUNCTION NOMENCLATURE		NO. E109A	
DEFINITION			
Provides a brief written description of the respect equipment interface circuit function.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
4 - 15	AN-1	3A4	Circuit Function Nomenclature
REMARKS:			
Any combination of alphanumeric characters may be documented in these card columns.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: PIN REFERENCE	NO. E110
--	-------------

DEFINITION

Designates the pin number or letter associated with the equipment interface circuit.

CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: All
--------------------------------	----------------------

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
17 - 18	AN or DI-1	A2	Letter/Number
19	SEX	A1	Lower Case

REMARKS:

Placing a check mark (x) in column 19 indicates that the pin letter specified in columns 17-18 are lower case letters.

CHARACTERISTIC TITLE:		SIGNAL CATEGORY		NO.
				E111
DEFINITION				
Designates the functional usage of the respective equipment interface circuit.				
CHARACTERISTIC BLOCK LETTER:		S	SIGNAL CATEGORY: All	
CARD DATA:				
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	
21	SSM-1	5A1	Release	
22			Monitor	
23			Control	
24			Sensor	
25			Power	
REMARKS:				
Refer to aircraft characteristic A202 for applicable remarks. The same signal category assignment procedures are used for both aircraft and store interface circuits.				
				SHEET 1 OF 1

CHARACTERISTIC TITLE: ADDED SENSOR CARD		NO. (NONE)	
DEFINITION			
Provide a cue to the system computer programs that indicates a second card (unique to sensor circuit characteristics) is to be examined.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: Sensor Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
26	SEX	A1	Added Sensor Card
REMARKS:			
This cue is not functional, and is provided for system growth purposes only.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: WIRE TYPE		NO. E112	
DEFINITION			
Designates the type of wire or cable that is used by the equipment for the respective interface circuit.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: ALL	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
27	SSM-1	3A1	Standard
28			Shielded
29			Coaxial (other)
REMARKS:			
Equipment wire type and part number data documentation procedures are described in the AFATL-TR-73-214, Phase I report on page 122.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: NOMINAL VOLTAGE VALUE (VOLTS)		NO. E113	
DEFINITION			
Specifies the nominal voltage value (either DC or AC) that is required by the respective equipment interface circuit for normal store operation.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
31 - 35	DR-2	F5.0	Nominal Voltage Value (Volts)
REMARKS:			
Equipment interface voltage tolerances are documented in characteristics E154 and E155.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: VOLTAGE TYPE		NO. E114																
DEFINITION	Define the type of voltage required by the respective equipment interface circuit.																	
CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: All																	
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>36</td> <td>SSM-2</td> <td>3A1</td> <td>AC (400 Hz)</td> </tr> <tr> <td>37</td> <td></td> <td></td> <td>DC</td> </tr> <tr> <td>38</td> <td></td> <td></td> <td>Other</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	36	SSM-2	3A1	AC (400 Hz)	37			DC	38			Other
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE															
36	SSM-2	3A1	AC (400 Hz)															
37			DC															
38			Other															
REMARKS:	Column 38. Is checked if the equipment interface circuit must be powered by a special type power supply.																	
		SHEET 1 OF 1																

CHARACTERISTIC TITLE: STEADY CURRENT (AMPS)		NO. E115	
DEFINITION			
Designates the maximum steady state current that can be drawn by the respective equipment interface circuit load.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
40 - 44	DR-2	F5.0	Steady Current (AMPS)
REMARKS:			
<p>This characteristic value is based on the circuit being powered from a maximum source voltage.</p> <p>All parallel equipment loads that are directly connected to the interface connection should be summated.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: LOAD TYPE		NO. E116
DEFINITION		
Indicates the type of load impedance associated with the equipment interface circuit.		
CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: All	
CARD DATA:		
COLUMN(S)	STYLE	CHOICE/VALUE
46	MSM-2	Inductive
47		Resistive
48		Lamp
49		Motor
REMARKS:		
SHEET 1 OF 1		

CHARACTERISTIC TITLE: GROUND CIRCUIT		NO. E117	
DEFINITION			
Indicates that the equipment interface circuit is directly grounded in the store or suspension device.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
51	SEX	A1	Ground Circuit
REMARKS:			
Column 51. Should be checked if the equipment circuit ground is used for store identification, presense, or any other similar function. This column should also be checked if the equipment circuit is a power return (structure ground) connection.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: START/INRUSH CURRENT		NO. E118	
DEFINITION			
Designates the maximum transient current that can be drawn by the respective equipment interface circuit load.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
52 - 56	DR-2	F5.0	Current (Amps)
57 - 61	DR-2	F5.0	Time (Sec.)
REMARKS:			
<p>This characteristic value is based on the circuit being powered from a maximum source voltage.</p> <p>All parallel equipment loads that are directly connected to the interface connection should be summated.</p>			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: LOAD LOCATION		NO. E120	
DEFINITION			
Designates the location of maximum circuit resistance relative to the aircraft/store interface connection.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
63	MSM-1	2A1	Aircraft
64			Equipment
REMARKS:			
Both columns should be checked if the circuit has a component impedance or current limiting load on both sides of the interface connection.			
Column 63 and 64 should be left blank if the interface connection is a store aircraft structure ground.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: CURRENT LIMITED		NO. E121	
DEFINITION	Indicates that the equipment circuit contains a series current limiting device.		
CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: ALL		
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
66	SEX	A1	Current Limited
REMARKS:			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: ELECTRICAL IDENTIFICATION	NO. E122
--	-------------

DEFINITION	Indicates the the equipment circuit is provided to identify the type of store or suspension device.
------------	---

CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: Monitor Only
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
68	SEX	A1	Electrical Identification

REMARKS:	
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CHARACTERISTIC TITLE: SUMMATE		NO. E123	
DEFINITION	Provides a cue to the system computer programs for calculating steady state/transient current.		
CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: All Except Sensor		
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
70	SEX	AI	Summate
REMARKS:	Refer to AFATL-TR-73-214, Phase 1, page 18, for a detailed description of this characteristic.		
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: PIN CODE LETTER		NO. E124	
DEFINITION			
Defines the interface connector pin size in coded form.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
20	SEA-1	A1	Pin Code Letter
REMARKS:			
Equipment pin size data documentation procedures are described in the AFATL-TR-73-214, Phase I report on page 122.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: WIRE CODE LETTER	NO. E125
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DEFINITION	Designates the part number (in coded form) of the wire or cable used by the equipment for the respective interface circuit.
------------	---

CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: ALL
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
30	SEX	A1	Wire Code Letter

REMARKS:	Refer to characteristic E112 for applicable remarks.
SHEET 1 OF 1	

CHARACTERISTIC TITLE:	CONNECTOR INSERT COMPATIBILITY CODE NUMBER	NO. E130
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DEFINITION	Alphanumeric code number used to describe the equipment interface connector in terms that will facilitate computerized aircraft/store connector mating compatibility testing.
------------	---

CHARACTERISTIC BLOCK LETTER:	I	SIGNAL CATEGORY:	N/A
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
1	AN-1	A1	Connector Type Code Letter
2 - 3	DI-1	I2	Insert Configuration Code No.
4	DI-1	I1	Keyway Position Code No.

REMARKS:	Refer to aircraft characteristic A10 <sup>4</sup> for applicable remarks. The same procedure is to be used for coding both aircraft and store connector inserts.
----------	--

CHARACTERISTIC TITLE: NUMBER OF CONNECTOR PIN ISOLATION CIRCUITS		NO. E131
DEFINITION		
Designates the number of pins used by the equipment interface connector to provide a physical barrier between critical connector interface circuits.		
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A
CARD DATA:		
COLUMN(S)	STYLE	FORMAT CHOICE/VALUE
5 - 7	DI-2	I3 Number of Connector Pin Isolation Circuits
REMARKS:		
SHEET 1 OF 1		

CHARACTERISTIC TITLE: STORE OR SUSPENSION DEVICE CODE NUMBER	NO. E132
---	-------------

DEFINITION	Provides a data file reference for store or suspension device code number that is applicable to the equipment interface connector.
------------	--

CHARACTERISTIC BLOCK LETTER: I	SIGNAL CATEGORY: N/A
--------------------------------	----------------------

CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
69 - 70	DI-1	I6	Equipment Class No.
71 - 72			Equipment Type No.
73 - 74			Equipment Ident. No.

REMARKS:	Refer to characteristic E102 for applicable remarks.
----------	--

CHARACTERISTIC TITLE: SIGNAL SEQUENCE GROUP CODE NUMBER		NO. E133	
DEFINITION			
Designates the interface signal sequence configuration of all circuits associated with the equipment interface connector in coded form.			
CHARACTERISTIC BLOCK LETTER: I		SIGNAL CATEGORY: N/A	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
63 - 66	DI-2	I4	Signal Sequence Group Code Number
REMARKS:			
This characteristic is non-functional and was provided on the data documentation format for file growth purposes only.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CARD NUMBER	NO. E135
--------------------------------------	-------------

DEFINITION

Provides a means to identify data cards for deck set up purposes.

CHARACTERISTIC BLOCK LETTER: I	SIGNAL CATEGORY: N/A
--------------------------------	----------------------

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
76	SEA-1	A1	Characteristic Block Letter I
77 - 79	DI-1	I3	Data Card
80	SEA-2	A1	Supplement Card Letter

REMARKS:

Column 80 is provided to indicate that the data card supplements the basic data contained on the original corresponding characteristic data block card. The letter "A" is entered (indicates first supplement card) and the same data card number is used.

CHARACTERISTIC TITLE: STORE CIRCUIT NUMBER NO. E150

DEFINITION  
References the equipment circuit associated with each active pin on the equipment interface connector.

CHARACTERISTIC BLOCK LETTER: S SIGNAL CATEGORY: All

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
1 - 3	DI-1	I3	Store Circuit Number

REMARKS:  
Refer to characteristic E109 for applicable remarks.

CHARACTERISTIC TITLE: STORE LOOP CIRCUIT IDENTIFICATION	NO. E151
---	-------------

DEFINITION

Indicates that the equipment circuit is a part of a series loop circuit that is directly returned to the aircraft.

CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: * All
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CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
4	SEA-2	A1	Store Loop Circuit
5	SEX	A1	Loop Common

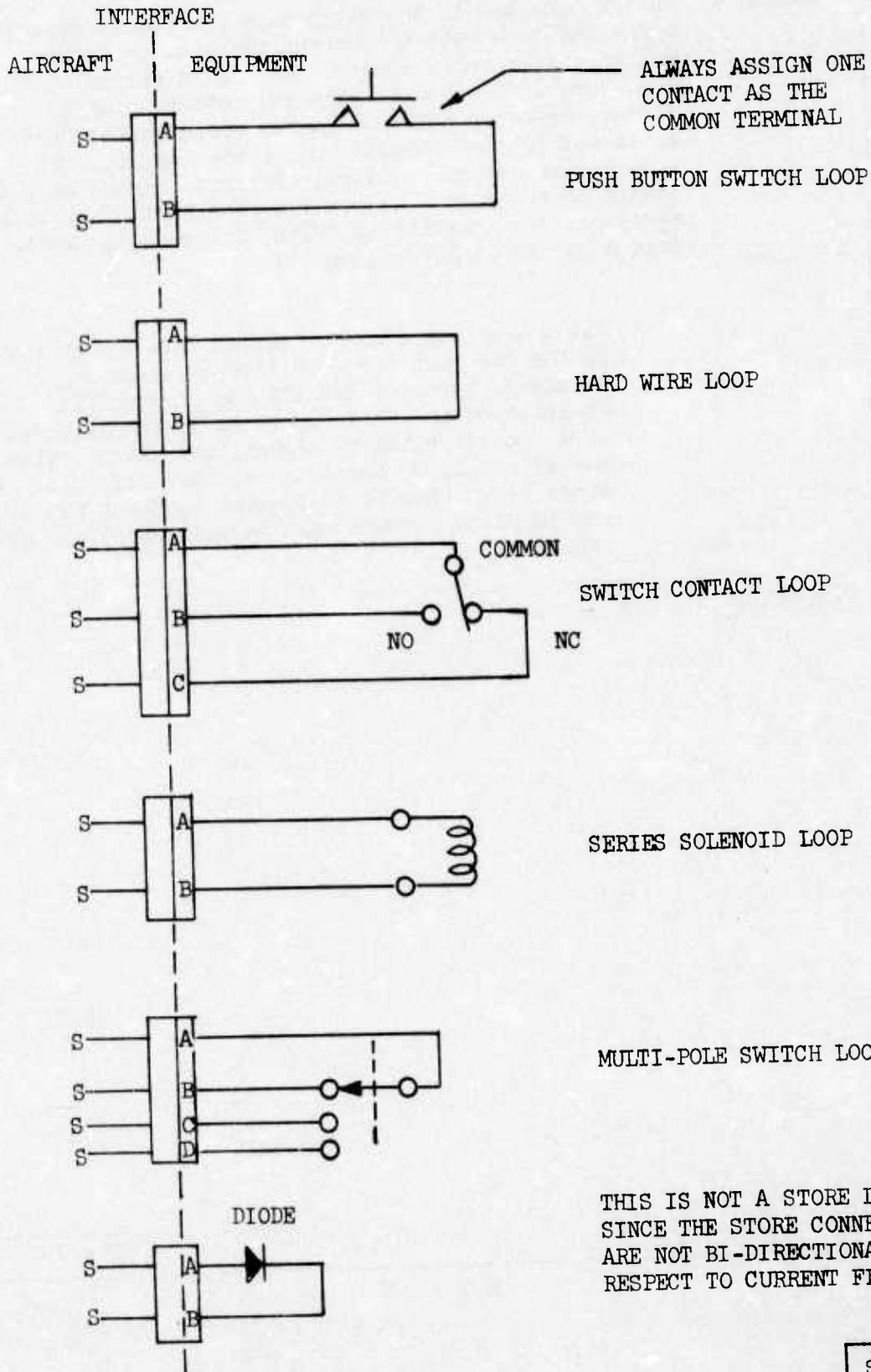
REMARKS:

Column 4. Must be identified with a code letter (A to Z) if the equipment circuit is one end of a series circuit store loop connection that is electrically isolated from ground and all other store circuitry. The store loop may be a direct hardware pin to pin loop, a pin to pin loop containing a series resistance, or a pin to pin loop that is broken by a set of switch or relay contacts. The opposite end of the loop circuit must also be identified with the same code letter for I/O correlation purposes.

CHARACTERISTIC TITLE:	STORE LOOP CIRCUIT IDENTIFICATION	NO. E151
REMARKS	<p>Column 5. Must be checked if the store loop circuit is directly connected to a switch "common" contact, or a common pole of a relay contact that is in series with the store loop circuit. The respective normally closed, or other poles of switch contacts that are connected to the opposite end of the loop circuit should leave column 5 blank. All loop common circuits should be coded as a source return circuit when coding equipment characteristics (E152, column 14), (E501, column 6) and (E605, column 20).</p> <p>* All store loop common circuits that can be used by the aircraft for a variety of functions (meaning, the loop circuit has no specific application for store operation), should be coded as a "power" category signal, and the opposite end(s) should be coded as "monitor" signals. All store loop circuits designated as "monitor" circuits should place a check mark in characteristic E255, column 33.</p>	
SHEET 2 OF 3		

REMARKS:

SAMPLE LOOP CIRCUITS



CHARACTERISTIC TITLE: RESPECTIVE LOOP LOAD CONNECTION CONNECTOR CODE NUMBER		NO. E151A								
DEFINITION	Reference the equipment connector (by code number) used by the opposite end of the store loop connection.									
CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: All									
CARD DATA:	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">COLUMN(S)</th> <th style="text-align: left; padding: 5px;">STYLE</th> <th style="text-align: left; padding: 5px;">FORMAT</th> <th style="text-align: left; padding: 5px;">CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">6 - 8</td> <td style="padding: 5px;">DI-2</td> <td style="padding: 5px;">I3</td> <td style="padding: 5px;">Connector Code Number</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	6 - 8	DI-2	I3	Connector Code Number
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
6 - 8	DI-2	I3	Connector Code Number							
REMARKS:	<p>Enter the code number of the equipment connector used by the opposite end of the store loop connection for two ended loop circuits only.</p> <p>Leave these columns blank if the loop circuit connection being documented is one end of a store loop that is connected to a multi-pole switch.</p>									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE: RESPECTIVE LOOP LOAD CONNECTION PIN REFERENCE		NO. E151B	
DEFINITION			
References the equipment connector pin letter or number used by the opposite end of the store loop connection.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
9 - 10	AN or DI-2	A2,	Letter/Number
11	SEX	A1	Lower Case
REMARKS:			
Refer to characteristic E151A for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT CONFIGURATION REQUIREMENTS - ON STATE		NO. E152
DEFINITION		
Specifies the configuration of the type of aircraft control circuit that must be used to obtain correct equipment operation.		
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All Except Sensor
CARD DATA:		
COLUMN(S)	STYLE	FORMAT CHOICE/VALUE
13	SSM-1	2A1 Source - Power
14		Source - Return
15	MSM-2	5A1 Circuit Type - Circuit Load
16		Circuit Type - Circuit Switch
17		Circuit Type - Current Limiter
18		Circuit Type - No Current Limit
19		Circuit Type - No Circuit Load
REMARKS:		
<p>This characteristic is used in conjunction with characteristic A301 for determining interface circuit compatibility.</p> <p>Column 13. This column should be checked if the store circuit requires a power source from the aircraft.</p> <p>Column 14. This column should be checked if the store circuit must be connected to ground (power return) in the aircraft.</p> <p>Column 15. This column should be checked if the store circuit is at ground potential and requires a load in the aircraft.</p>		
		SHEET 1 OF 2

CHARACTERISTIC TITLE:	AIRCRAFT CIRCUIT CONFIGURATION REQUIREMENTS - ON STATE	NO. E152
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REMARKS
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- Column 16. This column should be checked if the store circuit requires a switching means in the aircraft to interrupt/control current flow in the circuit.
- Column 17. This column should be checked if the store circuit requires a current limiting resistance in the aircraft for normal equipment operation.
- Column 18. This column should be checked if the store contains a series current limiting resistance, and no similar device should be present on the aircraft side of the interface connection.
- Column 19. This column should be checked if the store circuit contains a circuit load, and no load other than a current limiting resistor should be present at the aircraft side of the interface connection.

CHARACTERISTIC TITLE: AIRCRAFT CIRCUIT CONFIGURATION REQUIREMENTS - OFF STATE		NO. E153	
DEFINITION			
Specifies the configuration of the type of aircraft circuit that must be used when the interface circuit is in an off state.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
20	SSM-1	4A1	Parallel Load To Ground
21			Grounded
22			Open Circuit
23			Optional
REMARKS:			
<p>This characteristic is used in conjunction with characteristic A302 for determining interface circuit compatibility.</p> <p>Column 20. This column should be checked if the store circuit requires a high impedance path to ground for circuit load balancing purposes.</p> <p>Column 21. This column should be checked if the store circuit must be grounded for safety reasons, or be grounded to meet an off state circuit operation requirement.</p>			
			SHEET 1 OF 2

CHARACTERISTIC TITLE:	AIRCRAFT CIRCUIT CONFIGURATION REQUIREMENTS - OFF STATE	NO. E153
REMARKS	<p data-bbox="355 481 1328 582">Column 22. This column should be checked if the store circuit must be electrically isolated from the aircraft when the interface signal is not present.</p> <p data-bbox="355 616 1397 705">Column 23. This column may be checked if the store circuit design is such that any off state aircraft configuration is acceptable to the store.</p>	
		SHEET 2 OF 2

CHARACTERISTIC TITLE: MINIMUM INTERFACE VOLTAGE		NO. E154	
DEFINITION			
Specifies the minimum voltage value that must be applied to the equipment interface for normal store circuit operations.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
27 - 30	DR-2	F4.0	Minimum Interface Voltage
REMARKS:			
This characteristic is only applicable to equipment input circuits.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: MAXIMUM INTERFACE VOLTAGE		NO. E155	
DEFINITION			
<p>Specifies the maximum voltage value that can be applied to the equipment interface for normal store circuit operation.</p>			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
32 - 35	DR-2	F4.0	Maximum Interface Voltage
REMARKS:			
<p>This characteristic is only applicable to equipment input circuits.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: MULTI-CONDUCTOR CABLE CIRCUIT	NO. E156
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DEFINITION	Designates that the equipment circuit is one conductor of a multi-conductor cable that is used within the store and is connected to the interface.
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CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: All
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
37	SEA-1	A1	Multi-Conductor Cable

REMARKS:	Refer to characteristic A205 for applicable remarks.
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CHARACTERISTIC TITLE: FLOATING SHIELD CIRCUIT		NO. E157	
DEFINITION			
Designates that the equipment interface connection is used to terminate a cable shield.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: Power Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
39	SEX	A1	Floating Shield Circuit
REMARKS:			
Refer to characteristic A213 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: STORE STRUCTURE GROUND		NO. E158	
DEFINITION			
Designates that the equipment side of the interface is directly connected to store structure ground, and the circuit is used for aircraft/store grounding (power return) purpose only.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: Power Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
41	SEX	A1	Store Structure Ground
REMARKS:			
Refer to characteristic A214 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: OPTIONAL INTERFACE CIRCUIT		NO. E159	
DEFINITION			
Designates that the equipment interface circuit is not essential for store operation.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
68	SEX	A1	Optional Interface Circuit
REMARKS:			
<p>This characteristic is primarily concerned with aircraft/store interface circuit compatibility testing. In certain cases, a store has several unused switch contacts terminated at its interface connector. These circuits, and other circuits (such as advisory type store status signals) that do not affect aircraft/store electrical compatibility with respect to meeting minimum operational requirements, should have a check mark in column 68.</p> <p>When column 68 is checked, the system computer programs will still consider the circuit in the processing of interface data. However, all output data that include such circuits will be identified with the letter "O" after its store circuit function nomenclature. Refer to Figure 27 of the Phase II report for a typical example.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: STORE OR SUSPENSION DEVICE NOMENCLATURE CARD NO.		NO. E160	
DEFINITION			
Designates the part number of a store or suspension device in coded form.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
69 - 70	DI-1	I2	Class
71 - 72		I2	Type
73 - 74		I2	Ident
REMARKS:			
Refer to characteristic E102 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: MAXIMUM LOOP CIRCUIT STEADY CURRENT (AMPS)	NO. E161
--	-------------

DEFINITION

Designates the maximum steady state current that can be carried or switched by a store loop circuit.

CHARACTERISTIC BLOCK LETTER: S

SIGNAL CATEGORY: All Except Sensor

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
43 - 46	DR-2	F4.0	Maximum Loop Circuit Steady Current

REMARKS:

This characteristic is used in conjunction with aircraft characteristic A307 to test aircraft/store circuit compatibility for store loop circuits only.

This characteristic is not applicable to store loop circuits that contain a series load. The characteristic is solely used to test the current carrying limits of the store loop.

CHARACTERISTIC TITLE: STORE LOOP CIRCUIT TYPE CODE		NO. E161A																	
DEFINITION																			
Defines the type of store loop circuit by coded means.																			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All Except Sensor																	
CARD DATA:																			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE																
47	SEA-2	A1	Store Loop Circuit Type Code																
REMARKS:																			
<p>The following coding system may be used to correlate store loop circuit types with code numbers. This system may be expanded to facilitate new loop types.</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left; width: 20%;"><u>CODE LETTER</u></th> <th style="text-align: left;"><u>LOOP TYPE</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Hardwire Jumper</td> </tr> <tr> <td>B</td> <td>Series Momentary Switch, N.O.</td> </tr> <tr> <td>C</td> <td>Series Load, No Switch</td> </tr> <tr> <td>D</td> <td>Series Load, Plus N.C. Switch</td> </tr> <tr> <td>E</td> <td>Common Terminal, Multi-Pole Switch</td> </tr> <tr> <td>F</td> <td>N.C. Terminal, Multi-Pole Switch</td> </tr> <tr> <td>G</td> <td>N.O. Terminal, Multi-Pole Switch</td> </tr> </tbody> </table>				<u>CODE LETTER</u>	<u>LOOP TYPE</u>	A	Hardwire Jumper	B	Series Momentary Switch, N.O.	C	Series Load, No Switch	D	Series Load, Plus N.C. Switch	E	Common Terminal, Multi-Pole Switch	F	N.C. Terminal, Multi-Pole Switch	G	N.O. Terminal, Multi-Pole Switch
<u>CODE LETTER</u>	<u>LOOP TYPE</u>																		
A	Hardwire Jumper																		
B	Series Momentary Switch, N.O.																		
C	Series Load, No Switch																		
D	Series Load, Plus N.C. Switch																		
E	Common Terminal, Multi-Pole Switch																		
F	N.C. Terminal, Multi-Pole Switch																		
G	N.O. Terminal, Multi-Pole Switch																		
			SHEET 1 OF 1																

CHARACTERISTIC TITLE: SENSOR CIRCUIT SIGNAL FORM/LOGIC CHARACTERISTIC CODE NO.	NO. E162
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DEFINITION

Designates a code number that is used to identify the signal form and logic characteristics of sensor type equipment interface circuits.

CHARACTERISTIC BLOCK LETTER: S

SIGNAL CATEGORY: Sensor Only

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
48 - 51	DI-2	I4	Sensor Circuit Code No.

REMARKS:

Refer to characteristic A312 for applicable remarks.

SHEET 1 OF 1

CHARACTERISTIC TITLE: MANDATORY CABLE TYPE		NO. E163	
DEFINITION			
<p>This characteristic is used in conjunction with characteristic E112 to specify the type of aircraft wire or cable that must be used to facilitate proper signal transmission to or from the store.</p>			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
53	SEX	A1	Mandatory Cable Type
REMARKS:			
<p>This column is to be left blank if the type of wire or cable used in the aircraft is optional, and will not affect normal store circuit operation.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: MULTI-WIRE CONNECTION		NO. E164	
DEFINITION			
Designates that the equipment interface circuit is one of several parallel jumper wires that are connected to individual store connector pins and have no other electrical function in the store.			
CHARACTERISTIC BLOCK LETTER:		SIGNAL CATEGORY:	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
12	SEA-2	A1	Multi-Wire Connection
REMARKS:			
This characteristic, and characteristic A315 are provided to facilitate the documentation of aircraft/store interface circuits that form part of logical loop circuit sequence that is peculiar to a specific store. Multi-wire connectors differ from loop circuits because each pin is used for a special purpose and cannot be used by more than one store.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: WIRE SIZE		NO. E165	
DEFINITION			
Specifies the wire size used in the equipment for the interface connection, and indicates the range of acceptable aircraft wire sizes that are compatible with the store circuit.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
55 - 56	DI-1	I2	Actual Wire Size
57 - 58	DI-1	I2	Acceptable Aircraft Minimum Mating Sizes
59 - 60	DI-1	I2	Acceptable Aircraft Maximum Mating Sizes
REMARKS:			
<p>Columns 55-56. Should be used to document the actual wire size used in the equipment. The size specified should be based on the size wire connected to the equipment interface connector.</p> <p>Columns 57-58. Should be used to document the minimum size aircraft wire that can be used, based on the current carrying requirements of the equipment circuit.</p> <p>Columns 59-60. Should be used to document the maximum size aircraft wire that can be used, based on the pin size limitations of the equipment circuit interface pin connection.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: NO CIRCUIT		NO. E166								
DEFINITION	Designates that the equipment interface connection is not an active circuit.									
CHARACTERISTIC BLOCK LETTER: S	SIGNAL CATEGORY: N/A									
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>66</td> <td>SEX</td> <td>A1</td> <td>No Circuit</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	66	SEX	A1	No Circuit
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
66	SEX	A1	No Circuit							
REMARKS:	<p>The wording "NO CKT" should be documented in characteristic E109A if no circuit is connected to the respective connector pin. This will identify a no circuit on data printouts.</p>									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE: CONNECTOR IDENTIFICATION CODE NO.		NO. E167	
DEFINITION			
Designates the code number of the connector associated with the equipment interface circuit.			
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
63 - 65	DI-1	I3	Connector Ident. Code No.
REMARKS:			
Refer to characteristic E105 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE:	CARD NUMBER	NO. E175																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 5px;">DEFINITION</td> <td style="padding: 5px;"> <p style="text-align: center;">Provides a means to identify data cards for deck set up purposes.</p> </td> </tr> </table>			DEFINITION	<p style="text-align: center;">Provides a means to identify data cards for deck set up purposes.</p>																		
DEFINITION	<p style="text-align: center;">Provides a means to identify data cards for deck set up purposes.</p>																					
CHARACTERISTIC BLOCK LETTER: S		SIGNAL CATEGORY: All																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="padding: 5px;">CARD DATA:</td> </tr> <tr> <td style="width: 20%; padding: 5px;">COLUMN(S)</td> <td style="width: 15%; padding: 5px;">STYLE</td> <td style="width: 15%; padding: 5px;">FORMAT</td> <td style="width: 50%; padding: 5px;">CHOICE/VALUE</td> </tr> <tr> <td style="padding: 5px;">76</td> <td style="padding: 5px;">SEA-1</td> <td style="padding: 5px;">A1</td> <td style="padding: 5px;">Characteristic Block Letter S</td> </tr> <tr> <td style="padding: 5px;">77 - 79</td> <td style="padding: 5px;">DI-1</td> <td style="padding: 5px;">I3</td> <td style="padding: 5px;">Data Card</td> </tr> <tr> <td style="padding: 5px;">80</td> <td style="padding: 5px;">SEA-2</td> <td style="padding: 5px;">A1</td> <td style="padding: 5px;">Supplement Card Letter</td> </tr> </table>			CARD DATA:				COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	76	SEA-1	A1	Characteristic Block Letter S	77 - 79	DI-1	I3	Data Card	80	SEA-2	A1	Supplement Card Letter
CARD DATA:																						
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE																			
76	SEA-1	A1	Characteristic Block Letter S																			
77 - 79	DI-1	I3	Data Card																			
80	SEA-2	A1	Supplement Card Letter																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 5px;">REMARKS:</td> <td style="padding: 5px;"> <p style="text-align: center;">Refer to characteristic E135 for applicable remarks.</p> </td> </tr> </table>			REMARKS:	<p style="text-align: center;">Refer to characteristic E135 for applicable remarks.</p>																		
REMARKS:	<p style="text-align: center;">Refer to characteristic E135 for applicable remarks.</p>																					
		SHEET 1 OF 1																				

CHARACTERISTIC TITLE: STORE OR SUSPENSION DEVICE IDENTIFICATION CODE NO.		NO. E202	
DEFINITION			
Designates the part number of a store or suspension device in coded form.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
71 - 72	DI-1	I6	Class
73 - 74			Type
75 - 76			Ident
REMARKS:			
Refer to characteristic E102 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CARD NUMBER		NO. E204												
DEFINITION	Provides a means to identify data cards for deck set up purposes.													
CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: All													
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>77</td> <td>SEA-1</td> <td>A1</td> <td>Characteristic Block Letter L</td> </tr> <tr> <td>78 - 80</td> <td>DI-1</td> <td>I3</td> <td>Data Card</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	77	SEA-1	A1	Characteristic Block Letter L	78 - 80	DI-1	I3	Data Card
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE											
77	SEA-1	A1	Characteristic Block Letter L											
78 - 80	DI-1	I3	Data Card											
REMARKS:														
		SHEET 1 OF 1												

CHARACTERISTIC TITLE:	CIRCUIT NUMBER	NO.	E205
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DEFINITION

References the equipment circuit associated with each active pin on the equipment interface connector.

CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: All
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COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
1 - 3	DI-1	I3	Circuit Number

REMARKS:

Refer to characteristic E109 for applicable remarks.

CHARACTERISTIC TITLE:		SIGNAL CATEGORY		NO.	E206																														
DEFINITION		Designates the functional usage of the respective equipment interface circuit.																																	
CHARACTERISTIC BLOCK LETTER:		L	SIGNAL CATEGORY: All																																
CARD DATA:		<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th colspan="2">CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>SSM-1</td> <td>5A1</td> <td colspan="2">Release</td> </tr> <tr> <td>6</td> <td></td> <td></td> <td colspan="2">Monitor</td> </tr> <tr> <td>7</td> <td></td> <td></td> <td colspan="2">Control</td> </tr> <tr> <td>8</td> <td></td> <td></td> <td colspan="2">Sensor</td> </tr> <tr> <td>9</td> <td></td> <td></td> <td colspan="2">Power</td> </tr> </tbody> </table>				COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE		5	SSM-1	5A1	Release		6			Monitor		7			Control		8			Sensor		9			Power	
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE																																
5	SSM-1	5A1	Release																																
6			Monitor																																
7			Control																																
8			Sensor																																
9			Power																																
REMARKS:		Refer to characteristic A202 for applicable remarks and signal category documentation rationale.																																	
					SHEET 1 OF 1																														

CHARACTERISTIC TITLE: RELEASE SWITCH		NO. E207	
DEFINITION			
Specifies the aircraft switch required to initiate the store release/jettison circuit.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Release Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
11	SSM-2	3A1	Bomb/Rocket Button
12			Trigger
13			Other
REMARKS:			
<p>This characteristic is intended to specify the required origin of the aircraft release circuit switching device based on standard weapon system design requirements.</p> <p>Refer to characteristic A407 for applicable remarks.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE:	STATION ISOLATE	NO.	E208
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DEFINITION	<p>Specifies that the equipment circuit must be controlled by a network that is electrically isolated from all other aircraft weapon station interface connectors.</p>
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CHARACTERISTIC BLOCK LETTER:	L	SIGNAL CATEGORY:	All
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
15	SEX	A1	Station Isolate

REMARKS:	<p>This column must be checked if the equipment circuit function is such that two or more stores (of the same type, or different types) should not be operated in parallel.</p>
----------	---

CHARACTERISTIC TITLE: JETTISON CAPABILITY	NO. E209
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DEFINITION

Designates the modes of Jettison available in a multiple or triple ejector rack mechanism.

CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: Release Only
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COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
17	SSM-2	2A1	Selective
18			Panic

REMARKS:

This characteristic is only applicable to multiple ejector rack type equipments.

Column 17. Indicates that the equipment has a separate electrical input circuit that can initiate the jettison of a store from each equipment secondary bomb rack on a selective sub-rack station basis.

Column 18. Indicates that the equipment has a separate electrical input circuit that will initiate the simultaneous (panic) jettison of all sub-rack stations.

Column 17 and 18 should be left blank if the equipment uses its normal release circuit for jettisoning stores from equipment sub-racks.

CHARACTERISTIC TITLE:		MASTER ARMAMENT SWITCH		NO.	E210
DEFINITION		<p>Specifies that the equipment circuit is required to be under the control of the aircraft's master armament switch.</p>			
CHARACTERISTIC BLOCK LETTER:		L	SIGNAL CATEGORY: Release Only		
CARD DATA:					
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE		
20	SEX	AL	Master Armament Switch		
REMARKS:					
					SHEET 1 OF 1

CHARACTERISTIC TITLE: GROUND SAFETY SWITCH		NO. E211	
DEFINITION			
Specifies that the equipment circuit is required to be under control of the aircraft's ground safety (ordnance firing) network.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Release Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
22	SEX	A1	Ground Safety Switch
REMARKS:			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: STORE PRESENT ORIGIN SIGNAL	NO. E212
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DEFINITION	<p>Designates if the equipment circuit is used to monitor the presence of a store, and also indicates whether the sensing medium is located in the suspension device or store.</p>
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CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: Monitor Only
--------------------------------	-------------------------------

CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
24	SSM-2	2A1	Suspension Device
25			Store

REMARKS:	<p>This characteristic is only applicable to bomb racks and launcher mechanisms.</p>
----------	--

CHARACTERISTIC TITLE: RELEASE SEQUENCE LOGIC		NO. E213	
DEFINITION			
Specifies that the release circuit is normally controlled by an aircraft network that will facilitate the multi-station release of stores in a salvo, ripple, or other similar off-loading mode.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Release Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
27	SEX	A1	Release Sequence Logic
REMARKS:			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: DELIVERY MODE LOGIC	NO. E214
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DEFINITION

Specifies that the release circuit is normally controlled by an aircraft network that requires aircraft attack attitude parameter selection, correlation with a toss bomb computer, and other fire control functions.

CHARACTERISTIC BLOCK LETTER: L      SIGNAL CATEGORY: Release Only

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
29	SEX	A1	Delivery Mode Logic

REMARKS:

SHEET 1 OF 1

CHARACTERISTIC TITLE: SYSTEM POWER STATUS		NO. E215	
DEFINITION			
Specifies in general terms, the on/off status of each equipment interface circuit with respect to a typical stores management system power control network.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
31	MSM-2	A41	Off
32			Standby
33			Operate
34			Other
REMARKS:			
Column 31. Indicates that the equipment interface circuit is normally active when the aircraft SMS is in an off mode.			
Column 32. Indicates that the equipment interface circuit is normally active when the aircraft SMS is in a data entry/system setup mode, or is in a present/unarmed mode.			
Column 33. Indicates that the equipment interface circuit is only active after arming, or during a store release sequence.			
Column 34. Indicates that the circuit is applicable to nuclear weapons and is excluded from normal SMS power control.			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: MONITOR POINT		NO. E216	
DEFINITION			
Designates the interface circuit termination point for equipment monitor signals.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Monitor Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
36	SSM-2	2A1	Suspension Device
37			Store
REMARKS:			
<p>Column 36. Indicates that the equipment interface circuit is terminated at a suspension device interface connector.</p> <p>Column 37. Indicates that the equipment interface circuit is terminated at a store interface connector.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: DISPLAY SYMBOL CODE NO.		NO. E217	
DEFINITION  Designates a code number which is in turn correlated with a monitor display legend title.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Monitor Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
45 - 46	DI-2	I2	Display Symbol Code Number
REMARKS:  Refer to sheets 2 of 3, and 3 of 3 for the display schedule used by the system.			
		SHEET 1 OF 3	

CHARACTERISTIC TITLE:      DISPLAY SYMBOL CODE NO.		NO. E217	
REMARKS	Display Schedule		
No.	Symbol	Actual Title	Symbol No.
1	Empty	Dispenser empty	01
2	Tubes Rem	Tubes remaining	02
3	Tube Rel	Tube released	03
4	Home	Intervalometer home	04
5	Loop Open	Control loop open	05
6	In Valve Op	Inlet valve open	06
7	Cover Open	Nose cover open	07
8	Dis Val Op	Discharge valve open	08
9	Armed	Store armed	09
10	Dissem	Disseminating fluid	10
11	Unlocked 1	Firing switch unlocked #1	11
12	Locked 1	Firing switch locked #1	12
13	Unlocked 2	Firing switch unlocked #2	13
14	Locked 2	Firing switch locked #2	14
15	Store Gone	Store gone from station	15
16	Store Prst	Store present at station	16
17	All Gone	All stores gone	17
18	All Prst	All stores present	18
19	Rack Gone	Bomb rack gone	19
20	Rack Prst	Bomb rack present	20
21	All empty	All tubes/bays empty	21
22	All full	All tubes/bays full	22
23	Jettisoned	Equipment jettisoned	23
24	Rockets Rdy	Rockets ready	24
25	G Limit	G. limited	25
26	(Spare)		26
27	St Set 1 Gone	Store set #1 gone	27
28	St Set 1 Prst	Store set #1 present	28
29	St Set 2 Gone	Store set #2 gone	29
30	St Set 2 Prst	Store set #2 present	30
31	St Set 3 Gone	Store set #3 gone	31
32	St Set 3 Prst	Store set #3 present	32
33	St Set 4 Gone	Store set #4 gone	33
34	St Set 4 Prst	Store set #4 present	34
35	St Set 5 Gone	Store set #5 gone	35
36	St Set 5 Prst	Store set #5 present	36
37	St Set 6 Gone	Store set #6 gone	37
38	St Set 6 Prst	Store set #6 present	38
39	Overload	System overload	39

SHEET 2 OF 3

CHARACTERISTIC TITLE: DISPLAY SYMBOL CODE NO.			NO. E217
REMARKS	Display Schedule (Continued)		
No.	Symbol	Actual Title	Symbol No.
40	Standby	Standby	40
41	Standy 1	Standy #1	41
42	Standy 2	Standy #2	42
43	Monitor	Monitor	43
44	Pod Prst	Pod Present	44
45	Safe	Safe indicator	45
46	Threat	Threat indicator	46
47	Jam Ind	Jam indicator	47
48	Lnchr Prst	Launcher present	48
49	Enabled	Enabled	49
50	Xmit	Transmit	50
51	Xmit 1	Transmit 1	51
52	Xmit 2	Transmit 2	52
53	Prearm	Missile prearmed	53
54	ADM	Decoy present	54
55	(Spare)		55
56	(Spare)		56
57	Miss Gone	Missile gone	57
58	Miss Prst	Missile present	58
59	Unlock	Missile unlocked	59
60	Locked	Missile locked	60

SHEET 3 OF 3

CHARACTERISTIC TITLE: DISPLAY LOGIC BREAK	NO. E218
--	-------------

DEFINITION

Specifies if the equipment circuit should normally be controlled by a single pilot switching action, or if the circuit is part of a complex switching network.

CHARACTERISTIC BLOCK LETTER: L

SIGNAL CATEGORY: Control Only

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
48	SSM-2	2A1	Single
49			Multiple

REMARKS:

Refer to characteristic A414 for applicable remarks.

SHEET 1 OF 1

CHARACTERISTIC TITLE: AIRCRAFT DESTINATION		NO. E219
DEFINITION		
Specifies normal destination point (in aircraft) for those equipment interface circuits classified in the sensor signal category.		
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Sensor Only
CARD DATA:		
COLUMN(S)	STYLE	FORMAT CHOICE/VALUE
51	MSM-2	4A1 Display Indicator
52		Peculiar Processing Equipment
53		Peculiar Control Equipment
54		Power Bus
REMARKS:		
<p>Column 51. Indicates that the equipment circuit is normally terminated at a crew station display or associated signal display processing equipment.</p> <p>Column 52. Indicates that the equipment circuit is normally terminated at a logic processing device.</p> <p>Column 53. Indicates that the equipment circuit is normally terminated at a crew station control panel that is usually dedicated to one type of store.</p> <p>Column 54. Indicates that the equipment circuit is terminated at a special power supply that is usually dedicated to one type of store.</p>		
		SHEET 1 OF 1

CHARACTERISTIC TITLE: POWER BUS		NO. E220			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 150px; padding: 5px;">DEFINITION</td> <td colspan="2" style="padding: 5px;"> <p>Designates the normal aircraft power bus that is used to power the equipment interface circuit.</p> </td> </tr> </table>			DEFINITION	<p>Designates the normal aircraft power bus that is used to power the equipment interface circuit.</p>	
DEFINITION	<p>Designates the normal aircraft power bus that is used to power the equipment interface circuit.</p>				
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: All			
CARD DATA:					
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE		
56	SSM-2	7A1	Armament Release		
57			Armament Control		
58			Battery/Jettison		
59			Special Coded		
60			Non-Armament		
61			Special Weapon		
62			Armament Power		
REMARKS:			<p>This characteristic is only applicable to equipment input circuits. All other type circuits should leave these columns blank.</p>		
			SHEET 1 OF 1		

CHARACTERISTIC TITLE: <b>INFLIGHT SETTING</b>		NO. <b>E221</b>
DEFINITION		
Designates that the equipment circuit is normally controlled by the pilot.		
CHARACTERISTIC BLOCK LETTER: <b>L</b>		SIGNAL CATEGORY: <b>Control Only</b>
CARD DATA:		
COLUMN(S)	STYLE	CHOICE/VALUE
64	SEX	A1 Inflight Setting
REMARKS:		
Refer to characteristic A413 for applicable remarks.		
		SHEET 1 OF 1



CHARACTERISTIC TITLE: SUSPENSION DEVICE TERMINATED		NO. E223	
DEFINITION			
Indicates those store circuits that originate in the store and terminate in the aircraft's bomb rack or launcher mechanism.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
67	SEX	Al	Suspension Device Terminated
REMARKS:			
This characteristic is only applicable to the documentation of store electrical interface connections that directly mate with a station/store suspension device and do not proceed into the aircraft.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: STORE CIRCUIT NUMBER		NO. E250	
DEFINITION			
References the equipment circuit associated with each active pin on the equipment interface connector.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
1-3	DI-1	I3	Store Circuit Number
REMARKS:			
Refer to characteristic E109 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: COMPATIBLE AIRCRAFT RELEASE FUNCTIONS - PYLON JETTISON		NO. E251	
DEFINITION			
Specifies the types of aircraft pylon jettison functions that are compatible with the equipment circuit.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Release Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
5	SSM-2	4A1	Selective
6			Combat
7			Emergency
8			Optional
REMARKS:			
<p>This characteristic is not functional with any of the Phase 1 or 2 analytical computer programs. The AFATL Store Data File does not include any interface data for pylon interface connections.</p> <p>Refer to characteristic A401 for additional remarks.</p>			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: COMPATIBLE AIRCRAFT RELEASE FUNCTIONS - BOMB RACK		NO. E252	
DEFINITION			
Specifies the type of aircraft bomb rack function that is compatible with the equipment circuit.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Release Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
9	SSM-2	5A1	Normal Eject
10			Auxiliary Eject
11			Selective Store Jettison
12			Combat Store Jettison
13			Optional
REMARKS:			
Refer to characteristic A402 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: COMPATIBLE AIRCRAFT RELEASE FUNCTIONS - LAUNCHER		NO. E253	
DEFINITION			
Specifies the types of aircraft launcher functions that are compatible with the equipment circuit.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Release Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
14	MSM-2	5A1	Launch Initiate
15			Store Launch Command
16			Launch Normal
17			Launch Jettison
18			Eject Jettison
REMARKS:			
Refer to characteristic A403 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: COMPATIBLE AIRCRAFT RELEASE  
FUNCTION - STORE INTERFACE

NO.  
E254

DEFINITION

Specifies the types of aircraft store interface functions that are compatible with the equipment circuit.

CHARACTERISTIC BLOCK LETTER: L

SIGNAL CATEGORY: Release Only

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
22	MSM-2	7A1	Sub Rack Eject/Jett.
23			Store Dispense
24			Store Firing
25			Launch Initiate
26			Store Launch Command
27			Launch Signal
28			Store Step Only

REMARKS:

Refer to characteristic A404 for applicable remarks.

SHEET 1 OF 1

CHARACTERISTIC TITLE: COMPATIBLE MONITOR OPERATE FUNCTIONS		NO. E255																				
DEFINITION	<p>Specifies the specific use of equipment monitor circuits.</p>																					
CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: Monitor Only																					
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>31</td> <td>MSM-2</td> <td>4A1</td> <td>Store Presense</td> </tr> <tr> <td>32</td> <td></td> <td></td> <td>Store Identification</td> </tr> <tr> <td>33</td> <td></td> <td></td> <td>Circuit Switching Logic</td> </tr> <tr> <td>34</td> <td></td> <td></td> <td>Store Quantity</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	31	MSM-2	4A1	Store Presense	32			Store Identification	33			Circuit Switching Logic	34			Store Quantity
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE																			
31	MSM-2	4A1	Store Presense																			
32			Store Identification																			
33			Circuit Switching Logic																			
34			Store Quantity																			
REMARKS:	<p>Refer to characteristic A408 for applicable remarks.</p>																					
		SHEET 1 OF 1																				

CHARACTERISTIC TITLE: STATION MONITOR POINT	NO. E256
--	-------------

DEFINITION	Specifies that the equipment monitor circuit originates at a point in a pylon, or adapter, that has no direct interface with a store or suspension device.
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CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: Monitor Only
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
36	SEX	A1	Station Monitor Point

REMARKS:	This characteristic is provided for data file growth purposes only and is not used by any of the Phase 1 or 2 analytical programs. At present, the AFATL Store Data File does not include interface data for pylons or adapters.
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CHARACTERISTIC TITLE: <p style="text-align: center;">POWER SIGNAL LOGIC</p>	NO. <p style="text-align: center;">E257</p>																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 2px;">DEFINITION</td> <td style="padding: 5px;"> <p>Designates the use of equipment interface circuits assigned to the power signal category.</p> </td> </tr> </table>		DEFINITION	<p>Designates the use of equipment interface circuits assigned to the power signal category.</p>														
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COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE														
38	SSM-2	3A1	Power Source														
39			Power Return														
40			Shield Circuit														
REMARKS:																	
<p>Refer to characteristic A415 for applicable remarks.</p>																	
SHEET 1 OF 1																	

CHARACTERISTIC TITLE: SENSOR CIRCUIT SIGNAL FORM/LOGIC CHARACTERISTIC CODE NUMBER	NO. E258
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DEFINITION

Designates a code number that is used to identify the signal form and logic characteristics of Sensor type equipment interface circuits.

CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: Sensor Only
--------------------------------	------------------------------

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
42 - 45	DI-2	I4	Sensor Circuit Code No.

REMARKS:

Refer to characteristic A312 for applicable remarks.

CHARACTERISTIC TITLE:		NO.	
OPTIONAL INTERFACE CIRCUIT		E259	
DEFINITION			
Designates that the equipment interface circuit is not essential for store operation.			
CHARACTERISTIC BLOCK LETTER:		SIGNAL CATEGORY:	
L		All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
68	SEX	A1	Optional Interface Circuit
REMARKS:			
Refer to characteristic E159 for applicable remarks.			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: OPERATIONAL STATUS (MONITOR DISPLAY CIRCUITS)		NO. E260	
DEFINITION			
Specifies that the equipment monitor circuit is associated with the monitoring of a store status display message.			
CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: Monitor Only		
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
30	SEX	A1	Operational Status
REMARKS:			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: STATION SELECT		NO. E261
DEFINITION	Indicates that the equipment circuit requires an aircraft interface connection that incorporates station selection logic.	
CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: All	
CARD DATA:		
COLUMN(S)	STYLE	FORMAT
47	SEX	Al
		CHOICE/VALUE
		Station Select
REMARKS:		
	SHEET 1 OF 1	

CHARACTERISTIC TITLE: CONTROL LOGIC OPERATE FUNCTION CODE NUMBER		NO. E262	
DEFINITION			
Designates a code number that may be used to describe the exact circuit for normal operation.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: Control Only	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
49 - 52	DI-2	I4	Control Circuit Logic Function Code No.
REMARKS:			
This characteristic is non-functional and is provided on the data documentation format for system growth purposes only.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: STORE OR SUSPENSION DEVICE CODE NUMBER		NO. E265	
DEFINITION			
Designates the part number of a store or suspension device in coded form.			
CHARACTERISTIC BLOCK LETTER: L		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
69 - 70	DI-1	I2	Class
71 - 72		I2	Type
73 - 74		I2	Ident
REMARKS:			
Refer to characteristic E102 for applicable remarks.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE:		NO.																
CARD NUMBER		E275																
DEFINITION	Provides a means to identify data cards for deck set up purposes.																	
CHARACTERISTIC BLOCK LETTER: L	SIGNAL CATEGORY: All																	
CARD DATA:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">COLUMN(S)</th> <th style="text-align: left; padding: 5px;">STYLE</th> <th style="text-align: left; padding: 5px;">FORMAT</th> <th style="text-align: left; padding: 5px;">CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">76</td> <td style="padding: 5px;">SEA-1</td> <td style="padding: 5px;">A1</td> <td style="padding: 5px;">Characteristics Block Letter S</td> </tr> <tr> <td style="padding: 5px;">77 - 79</td> <td style="padding: 5px;">DI-1</td> <td style="padding: 5px;">I3</td> <td style="padding: 5px;">Data Card</td> </tr> <tr> <td style="padding: 5px;">80</td> <td style="padding: 5px;">SEA-2</td> <td style="padding: 5px;">A1</td> <td style="padding: 5px;">Supplement Card</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	76	SEA-1	A1	Characteristics Block Letter S	77 - 79	DI-1	I3	Data Card	80	SEA-2	A1	Supplement Card
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE															
76	SEA-1	A1	Characteristics Block Letter S															
77 - 79	DI-1	I3	Data Card															
80	SEA-2	A1	Supplement Card															
REMARKS:	Refer to characteristic E135 for applicable remarks.																	
		SHEET 1 OF 1																

CHARACTERISTIC TITLE: STORE CIRCUIT NUMBER	NO. E500
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DEFINITION	References the equipment circuit associated with each active pin on the equipment interface connector.
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CHARACTERISTIC BLOCK LETTER: T	SIGNAL CATEGORY: All
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
1 - 3	DI-1	I3	Store Circuit Number

REMARKS:	Refer to characteristic E109 for applicable remarks.
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SHEET 1 OF 1
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CHARACTERISTIC TITLE: CIRCUIT SWITCHING FORM - I/O POWER SOURCE		NO. E501	
DEFINITION			
Designates the interface circuit power source location.			
CHARACTERISTIC BLOCK LETTER: T		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
5	SSM-1	3A1	Store Input Circuit
6			Store Output Circuit
7			Other
REMARKS:			
Refer to characteristic A216 for applicable remarks.			
Column 7. This column should be checked if the equipment circuit is used to terminate a wire shield, or is a multi-wire connection as defined in characteristic E164.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: <b>CIRCUIT SWITCHING FORM - STORE INPUT CIRCUITS</b>		NO. <b>E502</b>	
DEFINITION			
Specifies the type of aircraft output circuit that is required by the equipment for normal interface circuit operation.			
CHARACTERISTIC BLOCK LETTER: <b>T</b>	SIGNAL CATEGORY: <b>All Except Sensor</b>		
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
9	MSM-2	5A1	Maintained
10			Momentary
11			Pulsed
12			Non-Switched
13			Optional
REMARKS:			
<p>Column 9. This column should be checked if the equipment input circuit requires a continuous aircraft output signal that can be switched to an off state.</p> <p>Column 10. This column should be checked if the equipment input circuit requires a momentary aircraft output signal.</p> <p>Column 11. This column should be checked if the equipment input circuit requires a pulsating DC aircraft output signal.</p>			
SHEET 1 OF 2			

CHARACTERISTIC TITLE: CIRCUIT SWITCHING FORM-STORE INPUT CIRCUITS	NO. E502
--	-------------

REMARKS

Column 12. This column should be checked if the equipment input circuit requires an aircraft output circuit that is directly connected to a power source.

Column 13. This column should be checked if the equipment input circuit is not dependent upon the type of aircraft output circuit for normal operation. Equipment loop circuit (power input) signals are to be documented as "optional" store input circuits.

CHARACTERISTIC TITLE: <b>CIRCUIT SWITCHING FORM - STORE OUTPUT CIRCUITS</b>	NO. <b>E503</b>
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DEFINITION	Specifies the type of equipment output circuit.
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CHARACTERISTIC BLOCK LETTER: <b>T</b>	SIGNAL CATEGORY: <b>All Except Sensor</b>
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
15	SSM-2	4A1	Maintained
16			Momentary
17			Pulsed
18			Non-Switched

REMARKS:	<p>Column 15. This column should be checked if the equipment output circuit generates a continuous signal that can be directly or indirectly switched to an off state.</p> <p>Column 16. This column should be checked if the equipment output circuit generates a momentary signal.</p> <p>Column 17. This column should be checked if the equipment output circuit generates a pulsating DC signal.</p> <p>Column 18. This column should be checked if the equipment output circuit is directly connected to a power source that originates in the equipment, or is indirectly supplied by the aircraft via another aircraft/store interface pin connection.</p>
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CHARACTERISTIC TITLE:		STORE OUTPUT CIRCUIT SWITCHING COMPONENT	NO. E504
DEFINITION			
Specifies the type of output circuit component used in the equipment.			
CHARACTERISTIC BLOCK LETTER:		T	SIGNAL CATEGORY: All Except Sensor
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
21	SSM-2	7A1	Toggle Switch
22			Push Button Switch
23			Relay
24			Power Transistor
25			SCR
26			Mech. Actuated Switch
27			Other
REMARKS:			
			SHEET 1 OF 1

CHARACTERISTIC TITLE: CIRCUIT INITIATE DELAY TIME - VARIABLE SETTING		NO. E505	
DEFINITION			
Designates that the equipment contains a means to vary the time between circuit initiate and actual application of a store output signal to the aircraft interface connection.			
CHARACTERISTIC BLOCK LETTER: T		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
28	SEX	A1	Variable Setting
REMARKS:			
Characteristics E505, E506, and E507 are all related to circuit initiate delay time documentation for either store input or store output interface circuits. If the circuit being documented is a store input signal, the times documented in E506 and E507 should specify the extreme delay times that are required by the store for normal operation. If the circuit being documented is a store output signal, the times documented in E506 and E507 should specify the extreme delay times that can be generated by the store.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT INITIATE DELAY TIME - MINIMUM TIME (SEC)		NO. E506	
DEFINITION			
Specifies the minimum circuit initiate delay time requirements of the equipment circuit.			
CHARACTERISTIC BLOCK LETTER: T		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
29 - 32	DR-2	F4.0	Minimum (sec)
REMARKS:			
Refer to characteristic E505 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT INITIATE DELAY TIME - MAXIMUM TIME (SEC)		NO. E507	
DEFINITION			
Specifies the maximum circuit initiate delay time requirements of the equipment circuit.			
CHARACTERISTIC BLOCK LETTER: T		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
33 - 36	DR-2	F4.0	Maximum (sec)
REMARKS:			
Refer to characteristic E505 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE:	CIRCUIT ON/OFF TIME - VARIABLE SETTING	NO. E508
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DEFINITION	Designates that the equipment contains a means to vary the time duration (on-off) of the output signal that is applied to the aircraft interface connection.
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CHARACTERISTIC BLOCK LETTER:	T	SIGNAL CATEGORY:	All Except Sensor
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CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
38	SEX	A1	Variable Setting

REMARKS:	<p>Characteristics E508, E509, E510, and E511 are all related to circuit on/off time documentation for either store input or store output interface circuits. If the circuit being documented is a store input signal, the times documented in E509 and E510 should specify the extreme on or off times of momentary (or pulsed) store input signals required by the equipment for normal operation. Characteristic E511 should be checked if the store input circuit requires a maintained or non-switched signal from the aircraft. If the circuit being documented is a store output signal, the times documented in E509 and E510 should specify the extreme on or off times of momentary or pulsed signals that can be generated by the equipment. Characteristic E511 should be checked if the store output circuit is a maintained or non-switched signal.</p>
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CHARACTERISTIC TITLE: CIRCUIT ON/OFF TIME MINIMUM TIME (SEC)		NO. E509	
DEFINITION			
Specifies the minimum circuit on or off time requirements of the equipment circuit.			
CHARACTERISTIC BLOCK LETTER: T		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
39 - 42	DR-2	F4.0	Minimum (Sec)
REMARKS:			
Refer to characteristic E508 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT ON/OFF TIME - MAXIMUM TIME (SEC)		NO. E510								
DEFINITION	Specifies the maximum circuit on or off time requirements of the equipment circuit.									
CHARACTERISTIC BLOCK LETTER: T	SIGNAL CATEGORY: All Except Sensor									
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>43 - 46</td> <td>DR-2</td> <td>F4.0</td> <td>Maximum (Sec)</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	43 - 46	DR-2	F4.0	Maximum (Sec)
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
43 - 46	DR-2	F4.0	Maximum (Sec)							
REMARKS:	Refer to characteristic E508 for applicable remarks.									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE:      CIRCUIT ON/OFF TIME - INDEFINATE		NO. E511	
DEFINITION			
Designates that the equipment output circuit is a continuous signal, or designates that the equipment input signal requires a continuous output signal from the aircraft for normal equipment operation.			
CHARACTERISTIC BLOCK LETTER:    T		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
47	SEX	AL	Indefinite
REMARKS:			
Refer to characteristic E508 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: CIRCUIT DROPOUT DELAY TIME - VARIABLE SETTING	NO. E512
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DEFINITION

Designates that the equipment contains a means to vary the time between circuit deactivate and actual removal of the output signal from the aircraft interface connection.

CHARACTERISTIC BLOCK LETTER: T

SIGNAL CATEGORY: All Except Sensor

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
49	SEX	A1	Variable Setting

REMARKS:

Characteristics E512, E513, and E514 are all related to circuit drop-out delay time documentation for either store input or store output interface circuits. If the circuit being documented is a store input signal, the times documented in E513 and E514 should specify the extreme delay times that are required by the store for normal operation. If the circuit being documented is a store output signal, the times documented in E513 and E514 should specify the extreme delay times that can be generated by the store.

SHEET 1 OF 1

CHARACTERISTIC TITLE: CIRCUIT DROPOUT DELAY TIME -  
MINIMUM (SEC) NO. E513

DEFINITION  
Specifies the minimum circuit dropout delay time requirements of the equipment circuit.

CHARACTERISTIC BLOCK LETTER: T SIGNAL CATEGORY: All Except Sensor

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
50 - 53	DR-2	F4.0	Minimum (Sec)

REMARKS:  
Refer to characteristic E512 for applicable remarks.

CHARACTERISTIC TITLE: CIRCUIT DROPOUT DELAY TIME - MAXIMUM (SEC)	NO. E514
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DEFINITION

Specifies the maximum circuit dropout delay time requirements of the equipment circuit.

CHARACTERISTIC BLOCK LETTER: T

SIGNAL CATEGORY: All Except Sensor

CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
54 - 57	DR-2	F4.0	Maximum (Sec)

REMARKS:

Refer to characteristic E512 for applicable remarks.

SHEET 1 OF 1

CHARACTERISTIC TITLE: CIRCUIT (OFF) DWELL TIME - VARIABLE SETTING	NO. E515
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DEFINITION

Designates that the equipment contains a means to vary the off time between positive power pulses generated by pulsed type equipment output circuits.

CHARACTERISTIC BLOCK LETTER: T	SIGNAL CATEGORY: All Except Sensor
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CARD DATA:

COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
59	SEX	A1	Variable Setting

REMARKS:

Characteristics E515, E516, and E517 are all related to circuit dwell time documentation for either store input or store output interface circuits. If the circuit being documented is a store input signal, the times documented in E516 and E517 should specify the extreme circuit (off) dwell times that are required by the store for normal operation. If the circuit being documented is a store output circuit, the times documented in E516 and E517 should specify the extreme delay times that can be generated by the store.

CHARACTERISTIC TITLE:   CIRCUIT (OFF) DWELL TIME - MINIMUM (SEC)	NO. E516
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DEFINITION	<p>Specifies the minimum time the equipment output circuit may be adjusted (or is fixed) to control the off time between positive power pulses generated by pulsed type store output circuits.</p>
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CHARACTERISTIC BLOCK LETTER:   T	SIGNAL CATEGORY:   All Except Sensor
----------------------------------	--------------------------------------

CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
60 - 63	DR-2	F4.0	Minimum (Sec)

REMARKS:
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Refer to characteristic E515 for applicable remarks.

CHARACTERISTIC TITLE: CIRCUIT (OFF) DWELL TIME - MAXIMUM (SEC)		NO. E517	
DEFINITION			
Specifies the maximum time the equipment output circuit may be adjusted (or is fixed) to control the off time between positive power pulses generated by pulsed type store output circuits.			
CHARACTERISTIC BLOCK LETTER: T		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
64 - 67	DR-2	F4.0	Maximum (Sec)
REMARKS:			
Refer to characteristic E515 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: OPTIONAL INTERFACE CIRCUIT		NO. E518	
DEFINITION			
Designates that the equipment interface circuit is not essential for store operation.			
CHARACTERISTIC BLOCK LETTER: T		SIGNAL CATEGORY: A11	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
68	SEX	A1	Optional Interface Circuit
REMARKS:			
Refer to characteristic E159 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: STORE OR SUSPENSION DEVICE CODE NO.	NO. E519																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%; padding: 5px;">DEFINITION</td> <td style="padding: 5px;">Designates the part number of a store or suspension device in coded form.</td> </tr> </table>		DEFINITION	Designates the part number of a store or suspension device in coded form.																
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SHEET 1 OF 1																			

CHARACTERISTIC TITLE: NORMALLY CLOSED SWITCH BREAK		NO. E520	
DEFINITION  Specifies equipment circuit characteristics associated with interface circuit interrupt signals.			
CHARACTERISTIC BLOCK LETTER: T		SIGNAL CATEGORY: All Except Sensor	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
19	MSM-2	2A1	Required in Aircraft
20			Exists in Store
REMARKS:			
<p>Column 19. This column should be checked if the equipment circuit requires an aircraft output signal that is normally in an on state (true) when the output circuit is inactive (not activated), and is set to an off state (false) when the aircraft output circuit is active (activated).</p> <p>Column 20. This column should be checked if equipment circuit contains a normally closed switch break which will open under normal circuit operating conditions.</p> <p>This characteristic is non-functional and is provided on the data documentation format for data file growth purposes only.</p>			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: CARD NUMBER		NO. E525	
DEFINITION			
Provides a means to identify data cards for deck set up purposes.			
CHARACTERISTIC BLOCK LETTER: T		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
76	SEA-1	A1	Characteristic Block Letter T
77 - 79	DI-1	I3	Data Card
80	SEA-2	A1	Supplement Card
REMARKS:			
Refer to characteristic E135 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: STORE CIRCUIT NUMBER		NO. E600	
DEFINITION			
References the equipment circuit associated with active pin on the equipment interface connector.			
CHARACTERISTIC BLOCK LETTER: Q		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
1 - 3	DI-1	I3	Store Circuit Number
REMARKS:			
Refer to characteristic E109 for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: EQUIPMENT INTERFACE CONNECTION - CONNECTOR CODE NUMBER		NO. E600A								
DEFINITION	Designates the equipment interface connector associated with the respective store circuit in coded form.									
CHARACTERISTIC BLOCK LETTER: Q	SIGNAL CATEGORY: All									
CARD DATA:	<table border="1"> <thead> <tr> <th>COLUMN(S)</th> <th>STYLE</th> <th>FORMAT</th> <th>CHOICE/VALUE</th> </tr> </thead> <tbody> <tr> <td>5 - 7</td> <td>DI-1</td> <td>I3</td> <td>Connector Code Number</td> </tr> </tbody> </table>		COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE	5 - 7	DI-1	I3	Connector Code Number
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE							
5 - 7	DI-1	I3	Connector Code Number							
REMARKS:	Refer to characteristic E105 for applicable remarks.									
		SHEET 1 OF 1								

CHARACTERISTIC TITLE: EQUIPMENT INTERFACE CONNECTION - (CONNECTOR PIN IDENTIFICATION)		NO. E600B	
DEFINITION			
Designates the pin number or letter associated with the aircraft/ equipment interface connection			
CHARACTERISTIC BLOCK LETTER: Q		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
9 - 10	AN or DU-1	A2	Letter/Number
11	SEX	A1	Lower Case
REMARKS:			
Refer to characteristic E110 for applicable remarks.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: INTERFACE CIRCUIT SIGNAL FUNCTION		NO. E601	
DEFINITION			
Designates a function type for each equipment interface circuit to identify the inter-relationship of all signals terminated at the aircraft/store interface connection.			
CHARACTERISTIC BLOCK LETTER: Q		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
13	SSM-1	6A1	Prime Function Signal
14			Support Function Signal
15			Direct Power Return Circuit
16			Cable Shield Circuit
17			(Not used)
18			(Not used)
REMARKS:			
Refer to characteristic A601 for applicable remarks. The same interface circuit function type selection rationale should be used for documenting store data.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: INTERFACE SIGNAL SWITCHING SEQUENCE ORDER		NO. E601A	
DEFINITION			
Specifies an acceptable interface signal switching order for all aircraft circuits that must be applied to, or received from the store for compatible interface circuit operation.			
CHARACTERISTIC BLOCK LETTER: Q		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
28 - 29	AN or DI-1	A2	Interface Circuit Switching Sequence Order
REMARKS:			
Refer to characteristic A601A for applicable remarks.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: STORE CIRCUIT DATA CARD MATRIX - ASSOCIATED STORE INTERFACE CIRCUITS		NO. E602	
DEFINITION			
Facilitates documentation which defines the signal on/off relationship requirements for all circuits that are to be terminated at the equipment to obtain normal store operation.			
CHARACTERISTIC BLOCK LETTER: Q		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
31 - 65 (All odd numbered columns)	AN-2	A1	(Status of associated circuit when prime function circuit is false)
32 - 66 (All even numbered columns)	AN-2	A1	(Status of associated circuit when prime function circuit is true)
67	SEX	A1	Continuation
REMARKS:			
Refer to characteristic A601 for applicable remarks.			
Card columns 31-65 and 32-66 may be left blank if the prime function circuit is not affected by the active/inactive status of the respective associated store interface circuit for normal equipment operation.			
		SHEET 1 OF 1	

CHARACTERISTIC TITLE: OPTIONAL INTERFACE CIRCUIT		NO. E603	
DEFINITION			
Designates that the equipment interface circuit is not essential for normal store operation.			
CHARACTERISTIC BLOCK LETTER: Q		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
68	SEX	Al	Optional Interface Circuit
REMARKS:			
Refer to characteristic E159 for applicable remarks.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE: STORE OR SUSPENSION DEVICE CODE NO.		NO. E604	
DEFINITION			
Designates the part number of a store or suspension device in coded form.			
CHARACTERISTIC BLOCK LETTER: Q		SIGNAL CATEGORY: All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
69 - 70	DI-1	I2	Class
71 - 72	DI-1	I2	Type
73 - 74	DI-1	I2	Ident
REMARKS:			
Refer to characteristic E102 for applicable remarks.			
SHEET 1 OF 1			

CHARACTERISTIC TITLE:		NO.	
CARD NUMBER		E625	
DEFINITION			
Provides a means to identify data cards for deck set up purposes.			
CHARACTERISTIC BLOCK LETTER:		SIGNAL CATEGORY:	
Q		All	
CARD DATA:			
COLUMN(S)	STYLE	FORMAT	CHOICE/VALUE
76	SEA-1	A1	Characteristic Block Letter Q
77 - 79	DI-1	I3	Data Card
80	SEA-2	A1	Supplement Card
REMARKS:			
Refer to characteristic E135 for applicable remarks.			
			SHEET 1 OF 1

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AFWL/SECA	1
AUL (AUL/LSE-70-239)	1
USNWC/Code 753	1
Nav Wpns Eval Fac/Code W	1
Sandia Lab/Tech Lib	1
Rand Corp/Lib-D	1
DDC	2
AFATL/DLOSL	2
AFATL/DL	1
AFATL/DLOU	1
AFATL/DLY	1
AFATL/DLGS	1
AFATL/DLR	1
AFATL/DLXP	1
AFATL/DLJ	1
AFATL/DLM	1
AFWL/SES	1
AFAL/AAA	1
AFATL/DLJC	1
AFATL/DLJA	15
TAWC/TRADOCLO	1
Hq USAF/SAMI	1
ASD/ENYEHM	1
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ADTC/XRC	1

UNCLASSIFIED

Security Classification

## DOCUMENT CONTROL DATA - R &amp; D

(Security classification of title, body of abstract and indexing annotation must be entered when the overall report is classified)

1. ORIGINATING ACTIVITY (Corporate author)		2a. REPORT SECURITY CLASSIFICATION	
Hi-Shear Corporation 2600 Skypark Drive Torrance, California		UNCLASSIFIED	
3. REPORT TITLE		2b. GROUP	
STORES INTERFACE DATA HANDLING ANALYSIS - PHASE II. VOLUME II - APPENDIXES			
4. DESCRIPTIVE NOTES (Type of report and inclusive dates)			
Final Report - January 1974 to November 1974			
5. AUTHOR(S) (First name, middle initial, last name)			
Michael J. Lauro George T. Collins			
6. REPORT DATE	7a. TOTAL NO. OF PAGES	7b. NO. OF REFS	
January 1975	263		
8a. CONTRACT OR GRANT NO.	9a. ORIGINATOR'S REPORT NUMBER(S)		
F08635-73-C-0094			
b. PROJECT NO.	9b. OTHER REPORT NO(S) (Any other numbers that may be assigned this report)		
2070	AFATL-TR-75-3, Volume II		
c.			
Task No. 03			
Work Unit No. 001			
10. DISTRIBUTION STATEMENT			
Distribution limited to U. S. Government agencies only; this report documents test and evaluation; distribution limitation applied January 1975. Other requests for this document must be referred to the Air Force Armament Laboratory (DLJA), Eglin Air Force Base, Florida 32542.			
11. SUPPLEMENTARY NOTES		12. SPONSORING MILITARY ACTIVITY	
Available in DDC		Air Force Armament Laboratory Air Force Systems Command Eglin Air Force Base, Florida 32542	
13. ABSTRACT			
<p>This technical report describes those improvements made to the Store Interface Data Handling Analysis - Phase I for automating Aircraft/Store Electrical Compatibility Analyses and computerized testing procedures. Until now, a manual method was used to compare hardcopy aircraft stores management system design data against store interface data generated by the Phase I Data Processing System. The improved system eliminates this time consuming task by automatically performing the complete interface compatibility analysis/test. A set of universal aircraft data documentation formats and new computer programs were developed for this added system capability. The new computer programs were designed to disclose any electrical incompatibility that may exist between the aircraft and store selected for comparison. New computer printouts provide detailed pin to pin and general interface compatibility information. Diagnostic message printouts are also provided to define each specific incompatibility condition that was detected. The improved system may be used to evaluate or verify the adequacy of an aircraft to control its existing store complement. Essentially, the improved system would compare the electrical design limits of the aircraft stores management system against store electrical requirements that are contained in the AFATL Store Data File. Any incompatible or marginal interface condition will be detected. The system improvements described in this report will greatly reduce the time and cost associated with analyzing aircraft and stores from an electrical interface compatibility standpoint.</p>			

DD FORM 1 NOV 65 1473

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14 KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
Store Interface Data Handling						
Aircraft/Store Electrical Interface Compatibility						
Computerized Testing Procedures						

UNCLASSIFIED

Security Classification