Appendix A

To

ADDENDUM NUMBER 4 TO THE SYSTEMS GROUP CHAIRMAN'S FACTUAL REPORT OF INVESTIGATION - A300-600 GROUND TEST

Airborne Instrumentation Department

INSTRUMENTATION REPORT
FOR

National Transportation Safety Board
Airbus A300 Ground Test

REPORT NO. TAP 01-05-533

DISTRIBUTION:

Dept Office	ALL
Safety & Inspection	ALL
Project Engineer	ALL
Dept, Section	ALL
Lab	ALL
Maintenance	ALL
Program Office	ALL
TDS Dept	ALL

Prepared by: Marc W. Hepp 1/10/03
Marc W. Hepp (Date)

Reviewed by: Mark Smedley 1/15/03
Mark Smedley (Date)

Approval: Thomas Grace 1/16/03
Thomas Grace (Date)

Modifications: _____

_____

_____
(Date)

INSTRUMENTATION SYSTEM

FOR

AIRBUS A300, MSN 701

NTSB GROUND TEST

AUTHOR

Marc W. Hepp

ABSTRACT

In August of 2002, Test Article Preparation / 5.4.2.2 entered into an agreement with the National Transportation Safety Board (NTSB) to acquire and process data from a ground test on an Airbus A300. The data system was designed to monitor several ARINC MUX buses and various analog sensors on the flight controls. The data is to be analyzed by NTSB accident investigators.

TABLE OF CONTENTS

INTRODUCTION

The NTSB requested a data system to monitor, record, and process a series of ground tests to further assist their investigation of the NOV 12, 2001, American Airlines FLT 587 incident.

DESCRIPTION OF INSTRUMENTATION SYSTEM

The data system primarily consisted of one CAIS (Common Airborne Instrumentation System) Data Acquisition Unit (CDAU-2012) and one Series-3000 real-time / processing system. The pilot's control wheel was instrumented with strain gages to measure longitudinal and lateral forces. A bending-beam transducer assembly was installed to the rudder pedals to measure force. The production sensors were utilized to measure flight control positions. Airbus furnished wiring to be terminated into the CDAU for ARINC and simulated signal acquisition.

CHRONOLOGY AND METHOD OF SYSTEM INSTALLATION AND CALIBRATION

AUG 04-09, 2002: TAP traveled to Airbus Industries, France to meet with all interested parties in order to develop data system requirements.

AUG 12-29, 2002: TAP designed and tested data system in the lab. Calibrated control wheel and rudder pedal force transducers.

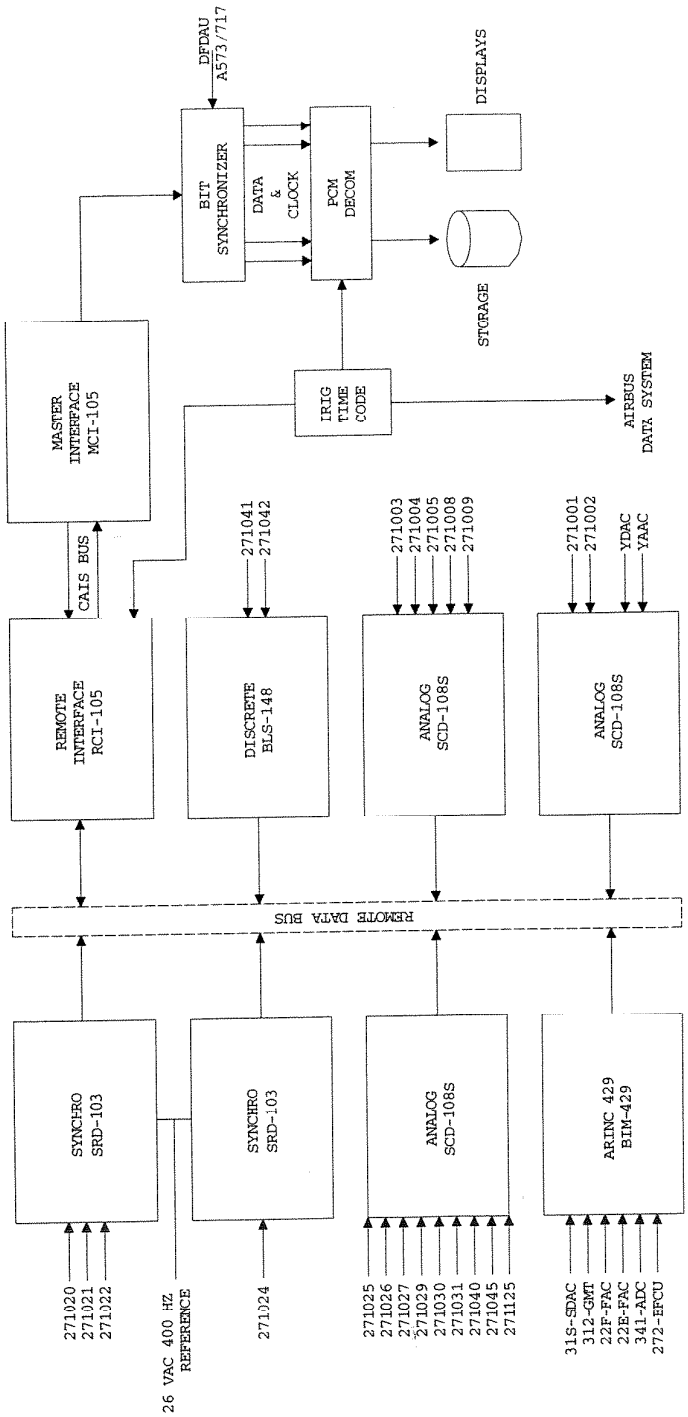
AUG 31-SEP 18, 2002: TAP installed, calibrated, and participated in testing on MSN 701 at Airbus Industries, France. Calibration of TAP instrumentation was verified on the aircraft to ensure no change or damage occurred during shipment. Calibration of the production sensors were performed using Airbus equipment verified with TAP calibration equipment except for the following parameters: Left / Right Rudder Pedal Position, Control Wheel Position, and Control Column position. These flight control positions were calibrated using TAP equipment only.

DISCUSSION

Due to Airbus Industries interest in the testing one of their products at their facility, they also installed a data system. Test Article Preparation's practices and procedures for installation and calibration were agreed upon for use. Aircraft calibrations were completed using both the Airbus' and TAP's equipment. All of TAP's calibration equipment can be traced to the National Institute of Standards and Technology (NIST). Airbus' calibration equipment and tools were used to calibrate the aileron, elevator, rudder, and variable stop actuator positions along with the test signal inputs. All Airbus equipment had

current calibrations. The measurements taken from the Airbus calibration equipment compared with TAP calibration equipment. A calibration equipment summary can be found in the Calibration section of this report, section IV page 5. The NTSB determined the TAP data system was the primary data source.

SYSTEM BLOCK DIAGRAM



APPENDIX I

DOCUMENT INDEX

REPORT NO. TAP 01-05-533

PINK SHEET

P.L.O ASSIGNED
PINK SHEET SERIAL NO._____

THIS FORM IS TO BE FILLED OUT BY THE COGNIZANT PROJECT OFFICER/ENGINEER IN ALL CASES WHERE PROJECT WORK REQUIRES MODIFICATION OR CONFIGURATION CHANGES TO AIRCRAFT OR ANY INSTALLED EQUIPMENT OR INSTRUMENTATION, STANDARD OR NON-STANDARD.

COMPLETED BY ORIGINATOR

CT TITLE	T/M/S	BUNO-MODEX	DIRECTORATE	COST CTR
A300 GROUND TEST		MSN 701		

ESTIMATED START DATE	TIME TO INSTALL (HR., DAYS, WKS)	REQ'D COMPLETION DATE	EST REMOVAL DATE	JOB ORDER NUMBER
02 SEP 02			20 SEP 02	G00000 4253

ORIGINATOR (PRINT): HEPP MARC W. — PHONE:

SIGNATURE DATE: Marc W. Hepp 02 SEP 02

INTERMEDIATE (PRINT): — PHONE:

SIGNATURE DATE:

FINAL AUTHORITY (PRINT): SCOTT WARREN — PHONE:

SIGNATURE DATE: 9/2/02

DETAILED DESCRIPTION OF JOB (EQUIPMENT SECTION I. A. ON REVERSE SIDE)

① INSTALL INSTRUMENTATION AND DATA SYSTEM TO AQUIRE DATA FROM GROUND TEST. ② REMOVE WHEN TEST IS COMPLETE.

II. COMPLETED BY PROJECTS/ MAINTENANCE

RECEIVED BY PLO (SIGNATURE/DATE):

ACCEPTING AUTHORITY (SIGNATURE/DATE): J. PERLIN 3/9/02

INSTRUCTING AUTHORITY (SIGNATURE/DATE): D. OSWALD 3/9/02

JCN/REMARKS

III. ALL ▶ BLOCKS BELOW MUST BE SIGNED. BLOCKS MARKED *NOT REQUIRED* WILL BE SIGNED BY DIRECTORATE PLO.
SIGNATURE CERTIFIES THAT WORK AREA IS FOD-FREE and ALL TOOLS ARE ACCOUNTED FOR.

STRUCTURAL INSP. ☐ NOT REQ	SIGNATURE/DATE ▶	SPECIFY TAP/5.4.2.2	SIGNATURE/DATE ▶ Marc W. Hepp 9/17/02
ELECTRICAL/ELECTRONIC INSP. ☐ NOT REQ	SIGNATURE/DATE ▶	SPECIFY	SIGNATURE/DATE ▷
TEST INSTRUMENTATION INSP. ☐ NOT REQ	SIGNATURE/DATE ▶	SPECIFY	SIGNATURE/DATE ▷
ORDNANCE SYSTEM INSP. ☐ NOT REQ	SIGNATURE/DATE ▶	SPECIFY	SIGNATURE/DATE ▷
EMC SOFT ☐ NOT REQ	SIGNATURE/DATE ▶	SPECIFY	SIGNATURE/DATE ▷
WEIGHT AND BALANCE ☐ NOT REQ	SIGNATURE/DATE ▶	SPECIFY	SIGNATURE/DATE ▷
AIRCREW STATION INSP. ☐ NOT REQ	SIGNATURE/DATE ▶	SPECIFY	SIGNATURE/DATE ▷

IV. THE FOLLOWING FLIGHT RESTRICTIONS APPLY: (LOG IN A. D. B.)

☐ NONE

FLIGHT CLEARANCE ☐ RCVD ☒ NOT REQ

DESIGNATED CLEARANCE AUTHORITY (SIGNATURE/DATE) ▶

REQ INSP. PERFORMED AND LOGBOOK ENTRIES COMPLETE — PROJECT LIAISON SIGNATURE/DATE ▶

PROJECT INSTALLATION RELEASED FOR FLIGHT — MAINTENANCE OFFICER SIGNATURE DATE ▶ P/O 17/9/02 D OSWALD BWEA

AIRCRAFT MODIFICATION/CONFIGURATION CONTROL (PINK SHEET)
NDW-NATC 13050/2 (8-88)

This form supercedes NDW-NATC 3710/1 (REV. 4.77)

Page of

5.4 INSTALLATION HARDWARE CONTROL FORM "ORANGE SHEET" Part 1

PROJECT TITLE: A380 GROUND TEST	TEST ARTICLE: MSN 001	TEST ARTICLE LOCATION: MARSEILLE, FRANCE
INSTALLATION START DATE: 03 SEP 02	PROPOSED COMPLETION DATE:	TAP CONTROL NUMBER:
INSTALLATION LEADER: M. KEPP	5.4 COMPETENCY: 5.4.2.2	PINK SHEET NUMBER(s):

If leak/clearance checks are required, place an X in the "Yes" column. Initial when functional test is complete.

Item	Serial Number / Part Number	Weight	Wing/Fuselage Station(s)	Panel/Door Number(s)	Yes	Initials	Date Installed	Date Removed	Inspector's Initials / Inspection Date
CONTROL WHEEL			COCKPIT				03SEP02	17SEP02	
CDAU (MASTER)			FWD CABIN				03SEP02	17SEP02	
TCG			FWD CABIN				03SEP02	17SEP02	
COMPUTER SYSTEM			FWD CABIN				03SEP02	17SEP02	
PWR XFMR			FWD CABIN				03SEP02	17SEP02	
DIGITAL INCLINOMETER			COCKPIT				06SEP02	13SEP02	
LEFT & RIGHT RUDDER PEDALS + BRACKETS			COCKPIT				06SEP02	17SEP02	
STRAIN BOXES			COCKPIT				09SEP02	13SEP02	
FREQUENCY CONVERTER			GALLEY				09SEP02	17SEP02	

Page of [redacted] 5.4 INSTALLATION WIRING CONTROL FO[redacted]RANGE SHEET" Part 2

PROJECT TITLE: A300 GROUND TEST	TEST ARTICLE: MSN 701			TEST ARTICLE LOCATION: AIRBUS - FRANCE		
INSTALLATION START DATE: 03 SEP 02	PROPOSED COMPLETION DATE:			TAP CONTROL NUMBER:		
INSTALLATION LEADER: M. HEPP	5.4 COMPETENCY: 5.4.2.2	If clearance checks are required, place an X in the "Yes" column. Initial when functional test is complete.		PINK SHEE NUMBER(s):		

Panel Number	Door Number	Wing/Fuselage Station	Yes	Initials	Date Installed	Date Removed	Inspector's initials / Inspection Date
C/P	TO FWD CABIN	4-4CON TW/SN 22 AWG			03SEP02	17SEP02	
TERMINATED AIRBUS PROVIDED WIRING TO CDAU		DISCONNECT.			(FWD CABIN)	17SEP02	
AIRBUS FTI C/B TO CDAU PWR		CONNECTOR 1-2CON TW/SN 22 AWG			(FWD CABIN)	17SEP02	
A/C GND TO CDAU CHASSIS		1-10 AWG (FWD	CABIN)		03SEP02	17SEP02	
WIRING FROM FWD EE BAY		TO COCKPIT			06SEP02	17SEP02	
RUDDER PEDAL WIRING		FORWARD COCKPIT			06SEP02	17SEP02	

ORANGE SHEET Part II (Installation Wiring Control Form). Version 2. March 24, 1998. Test Article Preparation

APPENDIX II

FILE INDEX

AIRBU[redacted]300
MSN 701
SYSTEMS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
IV01.001	SYSLIST1		SYSLIST1	
IV01.002	SYSLIST1		ABRPF	271003
IV02.001	SYSLIST1		CAS	341206
IV03.001	SYSLIST1		HYDPRESSGRN	31S174-1C
IV03.002	SYSLIST1		HYDPRESSYLW	31S174-1D
IV03.003	SYSLIST1		HYDPRSSBLU	31S174-1B
IV03VER4.001	SYSLIST1		RDRPOSANLG	271024
IV12.001	SYSLIST1		RDRTRVLFLC1	271041
IV12.002	SYSLIST1		RDRTRVLFLC2	271042
IV13.001	SYSLIST1		RPFLH	271001
IV13.002	SYSLIST1		RPFRH	271002
IV14.001	SYSLIST1		RPP	271025
IV14.002	SYSLIST1		VARSTPACTPOS	271040
IV15.001	SYSLIST1			
IV16.001	SYSLIST1			
IV17.001	SYSLIST1			
IV17.002	SYSLIST1			
IV11.001	SYSLIST2		SYSLIST2	
IV11.002	SYSLIST2		CAS	341206
IV11.003	SYSLIST2		HYDPRESSGRN	31S174-1C
			HYDPRESSYLW	31S174-1D
			HYDPRSSBLU	31S174-1B
			RDRPOSANLG	271024
			RPP	271025

AIRBU[redacted]300
MSN 701
SYSTEMS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
IV20.001	SYSLIST3		SYSLIST3	
IV20.002	SYSLIST3		CAS	341206
IV21.001	SYSLIST3		FUNGEN	271045
IV22.001	SYSLIST3		HYDPRESSGRN	31S174-1C
IV23.001	SYSLIST3		HYDPRESSYLW	31S174-1D
IV23.002	SYSLIST3		HYDPRSSBLU	31S174-1B
			RDRPOSANLG	271024
			VARSTPACTPOS	271040
			YDAC	271046
IV31.001	[redacted]		[redacted]	
			ABRPF	271003
			CAS	341206
			FUNGEN	271045
			HYDPRESSGRN	31S174-1C
			HYDPRESSYLW	31S174-1D
			HYDPRSSBLU	31S174-1B
			RDRPOSANLG	271024
			RPFLH	271001
			RPFRH	271002
			RPP	271025
			VARSTPACTPOS	271040
			YDAC	271046

AIRBU[redacted]800
MSN 701
SYSTEMS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
IV32.001	[redacted]		[redacted]	
IV33.001	[redacted]		ABRPF	271003
			CAS	341206
			FUNGEN	271045
			HYDPRESSGRN	31S174-1C
			HYDPRESSYLW	31S174-1D
			HYDPRSSBLU	31S174-1B
			RDRPOSANLG	271024
			RPFLH	271001
			RPFRH	271002
			RPP	271025
			VARSTPACTPOS	271040
			YAWCMDFACOUT	271029
			YAWPOSFACOUT	271030
			YDAC	271046
IV41.001	SYSLIST6		SYSLIST6	
IV42.001	SYSLIST6		ABRPF	271003
IV43.001	SYSLIST6		CAS	341206
IV44.001	SYSLIST6		FUNGEN	271045
IV45.001	SYSLIST6		HYDPRESSGRN	31S174-1C
IV46.001	SYSLIST6		HYDPRESSYLW	31S174-1D
IV46.002	SYSLIST6		HYDPRSSBLU	31S174-1B
IV47.001	SYSLIST6		MODYAWRATE	227330
IV47.002	SYSLIST6		RDRPOSANLG	271024
IV48.001	SYSLIST6		RPFLH	271001
IV49.001	SYSLIST6		RPFRH	271002
IV410.001	SYSLIST6		RPP	271025
IV411.001	SYSLIST6		VARSTPACTPOS	271040
IV411REPEAT.001	SYSLIST6		YAWCMDFACOUT	271029
IV412.001	SYSLIST6		YAWPOSFACOUT	271030
			YAWRATE	22E330
			YDAC	271046

AIRBU[redacted]300
MSN 701
SYSTEMS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
IV50.001	SYSLIST7		SYSLIST7	
IV50.002	SYSLIST7		ABRPF	271003
IV51.001	SYSLIST7		CAS	341206
IV52.001	SYSLIST7		FUNGEN	271045
IV53.001	SYSLIST7		HYDPRESSGRN	31S174-1C
			HYDPRESSYLW	31S174-1D
			HYDPRSSBLU	31S174-1B
			RDRPOSANLG	271024
			RPFLH	271001
			RPFRH	271002
			VARSTPACTPOS	271040
			YAAC	271047
			YAWSERFCCOUT	271031

MSN 701
HUMAN FACTORS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
			HFLIST1	
ER1165.001	HFLIST1		ABCCF	271009
ER1180.001	HFLIST1		ABCWFCAPH	271004
ER1195.001	HFLIST1		ABCWFCAPV	271008
ER1195N15.001	HFLIST1	THE LAST "5" IS A TYPO.	ABCWFFOH	271005
ER1265.001	HFLIST1		ABRFP	271003
ER1280.001	HFLIST1		AICCF *NO EQUATIONS	NOT USED
ER1295.001	HFLIST1		AICWF *NO EQUATIONS	NOT USED
ER1295A.001	HFLIST1		AILPOSLH573	
ER1365.001	HFLIST1		AILPOSLHANLG	271020
ER1380.001	HFLIST1		AILPOSLHSDAC	31S310-1B
ER1395.001	HFLIST1		AILPOSRH573	
ER2195N1.001	HFLIST1		AILPOSRHANLG	271021
ER2195N2.001	HFLIST1		AILPOSRHSDAC	31S310-1C
ER2295N2.001	HFLIST1		AIRPF *NO EQUATIONS	NOT USED
ER2395N1.001	HFLIST1		CAS	341206
ER2395N2.001	HFLIST1		CCF	271011
HF10011081.001	HFLIST1		CCP	271027
HF10011081A.001	HFLIST1		CCP573	
HF10021021.001	HFLIST1		CWF	271010
HF10031031.001	HFLIST1		CWP	271026
HF10041061.001	HFLIST1		CWP573	
HF10051041.001	HFLIST1		CWT	
HF10061011.001	HFLIST1		ELEVP573	
HF10071051.001	HFLIST1		ELEVPOSANLG	271022
HF10081071.001	HFLIST1		ELEVPOSSDAC	31S314
HF10091031.001	HFLIST1		GMT_HOURS	
HF10091032.001	HFLIST1		GMT_MINS	
HF10101082.001	HFLIST1		GMT_SEC	
HF10111052.001	HFLIST1		HYDPRESSBLU	31S174-1B
HF10121042.001	HFLIST1		HYDPRESSGRN	31S174-C
HF10131072.001	HFLIST1		HYDPRESSYLW	31S174-D
HF10141062.001	HFLIST1		POTPWR	271125
HF10151022.001	HFLIST1		RDRPOSANLG	271024
HF10161012.001	HFLIST1			

AIRBU[redacted]800
MSN 701
HUMAN FACTORS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF10172081.001	HFLIST1		RPFLH	271001
HF10182061.001	HFLIST1		RPFRH	271002
HF10192011.001	HFLIST1		RPP	271025
HF10222031.001	HFLIST1		RPP573	
HF10223032.001	HFLIST1	NO SUCH RECORD	RSP573	
HF10333031.001	HFLIST1		RSPSDAC	31S312
HF10343071.001	HFLIST1		STABPOSSDAC	31S315
HF10353061.001	HFLIST1		VARSTPACTPOS	271040
HF10353061A.001	HFLIST1		WHEELPOSBUS	272071
HF10363011.001	HFLIST1			
HF10373051.001	HFLIST1			
HF10383081.001	HFLIST1			
HF10393021.001	HFLIST1			
HF10403041.001	HFLIST1			
HF10413012.001	HFLIST1			
HF10433022.001	HFLIST1			
HF10443052.001	HFLIST1			
HF10453042.001	HFLIST1			
HF10463062.001	HFLIST1			
HF10473072.001	HFLIST1			
HF10483082.001	HFLIST1			
HF10494011.001	HFLIST1			
HF10504031.001	HFLIST1			
HF10514041.001	HFLIST1			
HF10524021.001	HFLIST1			
HF10575031.001	HFLIST1			
HF10585021.001	HFLIST1			
HF10595041.001	HFLIST1			
HF10605011.001	HFLIST1			
HF10615042.001	HFLIST1			
HF10625032.001	HFLIST1			
HF10635012.001	HFLIST1			
HF10645022.001	HFLIST1			
HF10656051.001	HFLIST1			

AIRBU[redacted]300
MSN 701
HUMAN FACTORS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF10666081.001	HFLIST1			
HF10676011.001	HFLIST1			
HF10686031.001	HFLIST1			
HF10696091.001	HFLIST1			
HF10706101.001	HFLIST1			
HF10716071.001	HFLIST1			
HF10726121.001	HFLIST1			
HF10736041.001	HFLIST1			
HF10746061.001	HFLIST1			
HF10756021.001	HFLIST1			
HF10766111.001	HFLIST1			
HF10776022.001	HFLIST1			
HF10786072.001	HFLIST1			
HF10796102.001	HFLIST1			
HF10806112.001	HFLIST1			
HF10816122.001	HFLIST1			
HF10826062.001	HFLIST1			
HF10836052.001	HFLIST1			
HF10846082.001	HFLIST1			
HF10856092.001	HFLIST1			
HF10866042.001	HFLIST1			
HF10876012.001	HFLIST1			
HF10886032.001	HFLIST1			
HF10897071.001	HFLIST1			
HF10897071A.001	HFLIST1			
HF10897071B.001	HFLIST1			
HF10907051.001	HFLIST1			
HF10917041.001	HFLIST1			
HF10927031.001	HFLIST1			
HF10937081.001	HFLIST1			
HF10947011.001	HFLIST1			
HF10957061.001	HFLIST1			
HF10967021.001	HFLIST1			
HF10977022.001	HFLIST1			

AIRBU[redacted]300
MSN 701
HUMAN FACTORS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF10987082.001	HFLIST1			
HF10997072.001	HFLIST1			
HF11007012.001	HFLIST1			
HF11017042.001	HFLIST1			
HF11027032.001	HFLIST1			
HF11037052.001	HFLIST1			
HF11047062.001	HFLIST1			
HF11058011.001	HFLIST1			
HF11058011A.001	HFLIST1			
HF11068021.001	HFLIST1			
HF11078022.001	HFLIST1			
HF11088012.001	HFLIST1			
HF20011041.001	HFLIST1			
HF20021011.001	HFLIST1			
HF20031061.001	HFLIST1			
HF20041021.001	HFLIST1			
HF20051071.001	HFLIST1			
HF20061051.001	HFLIST1			
HF20071081.001	HFLIST1			
HF20081031.001	HFLIST1			
HF20091072.001	HFLIST1			
HF20101062.001	HFLIST1			
HF20111082.001	HFLIST1			
HF20121042.001	HFLIST1			
HF20131052.001	HFLIST1			
HF20141022.001	HFLIST1			
HF20151032.001	HFLIST1			
HF20161012.001	HFLIST1			
HF20172041.001	HFLIST1			
HF20182061.001	HFLIST1			
HF20192031.001	HFLIST1			
HF20212011.001	HFLIST1			
HF20333031.001	HFLIST1			
HF20343081.001	HFLIST1			

MSN 701
HUMAN FACTORS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF20353051.001	HFLIST1			
HF20363061.001	HFLIST1			
HF20373021.001	HFLIST1			
HF20383011.001	HFLIST1			
HF20393071.001	HFLIST1			
HF20403041.001	HFLIST1			
HF20413042.001	HFLIST1			
HF20423052.001	HFLIST1			
HF20433012.001	HFLIST1			
HF20443072.001	HFLIST1			
HF20453082.001	HFLIST1			
HF20463032.001	HFLIST1			
HF20473022.001	HFLIST1			
HF20483062.001	HFLIST1			
HF20494041.001	HFLIST1			
HF20504021.001	HFLIST1			
HF20514011.001	HFLIST1			
HF20524031.001	HFLIST1			
HF20575021.001	HFLIST1			
HF20585011.001	HFLIST1			
HF20595041.001	HFLIST1			
HF20605031.001	HFLIST1			
HF20615022.001	HFLIST1			
HF20625042.001	HFLIST1			
HF20635032.001	HFLIST1			
HF20645012.001	HFLIST1			
HF20656031.001	HFLIST1			
HF20666021.001	HFLIST1			
HF20676051.001	HFLIST1			
HF20686011.001	HFLIST1			
HF20686011A.001	HFLIST1			
HF20696121.001	HFLIST1			
HF20706111.001	HFLIST1			
HF20716041.001	HFLIST1			

MSN 701
HUMAN FACTORS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF20726071.001	HFLIST1			
HF20736081.001	HFLIST1			
HF20746091.001	HFLIST1			
HF20756101.001	HFLIST1			
HF20766061.001	HFLIST1			
HF20776122.001	HFLIST1			
HF20786092.001	HFLIST1			
HF20796042.001	HFLIST1			
HF20806072.001	HFLIST1			
HF20816112.001	HFLIST1			
HF20826012.001	HFLIST1			
HF20836082.001	HFLIST1			
HF20846052.001	HFLIST1			
HF20856062.001	HFLIST1			
HF20866102.001	HFLIST1			
HF20876022.001	HFLIST1			
HF20886032.001	HFLIST1			
HF20897061.001	HFLIST1			
HF20907011.001	HFLIST1			
HF20917071.001	HFLIST1			
HF20927041.001	HFLIST1			
HF20937021.001	HFLIST1			
HF20947031.001	HFLIST1			
HF20957081.001	HFLIST1			
HF20967051.001	HFLIST1			
HF20977022.001	HFLIST1			
HF20987012.001	HFLIST1			
HF20997082.001	HFLIST1			
HF21007062.001	HFLIST1			
HF21017042.001	HFLIST1			
HF21027032.001	HFLIST1			
HF21037072.001	HFLIST1			
HF21047052.001	HFLIST1			
HF21058021.001	HFLIST1			

MSN 701
HUMAN FACTORS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF21068011.001	HFLIST1			
HF21078022.001	HFLIST1			
HF21088012.001	HFLIST1			
HF30011061.001	HFLIST1			
HF30021071.001	HFLIST1			
HF30031011A.001	HFLIST1			
HF30031011B.001	HFLIST1			
HF30041081.001	HFLIST1			
HF30051041.001	HFLIST1			
HF30061021.001	HFLIST1			
HF30071051.001	HFLIST1			
HF30081031.001	HFLIST1			
HF30091022.001	HFLIST1			
HF30101072.001	HFLIST1			
HF30111012.001	HFLIST1			
HF30121082.001	HFLIST1			
HF30131042.001	HFLIST1			
HF30141062.001	HFLIST1			
HF30151032.001	HFLIST1			
HF30161052.001	HFLIST1			
HF30172011.001	HFLIST1			
HF30182031.001	HFLIST1			
HF30192041.001	HFLIST1			
HF30202081.001	HFLIST1			
HF30333011.001	HFLIST1			
HF30343051.001	HFLIST1			
HF30353021.001	HFLIST1			
HF30363061.001	HFLIST1			
HF30373081.001	HFLIST1			
HF30383071.001	HFLIST1			
HF30393041.001	HFLIST1			
HF30403031.001	HFLIST1			
HF30413052.001	HFLIST1			
HF30423032.001	HFLIST1			

AIRBU[redacted]300
MSN 701
HUMAN FACTORS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF30433022.001	HFLIST1			
HF30443082.001	HFLIST1			
HF30453012.001	HFLIST1			
HF30463072.001	HFLIST1			
HF30473042.001	HFLIST1			
HF30483062.001	HFLIST1			
HF30494041.001	HFLIST1			
HF30504011.001	HFLIST1			
HF30514021.001	HFLIST1			
HF30524031.001	HFLIST1			
HF30575011.001	HFLIST1			
HF30585041.001	HFLIST1			
HF30595031.001	HFLIST1			
HF30605021.001	HFLIST1			
HF30615032.001	HFLIST1			
HF30625012.001	HFLIST1			
HF30635022.001	HFLIST1			
HF30645042.001	HFLIST1			
HF30656091A.001	HFLIST1			
HF30666061.001	HFLIST1			
HF30676011.001	HFLIST1			
HF30686081.001	HFLIST1			
HF30696051.001	HFLIST1			
HF30706101.001	HFLIST1			
HF30716121.001	HFLIST1			
HF30726021B.001	HFLIST1			
HF30736071.001	HFLIST1			
HF30746041.001	HFLIST1			
HF30756111.001	HFLIST1			
HF30766031.001	HFLIST1			
HF30776032.001	HFLIST1			
HF30786092.001	HFLIST1			
HF30796122.001	HFLIST1			
HF30806112A.001	HFLIST1			

AIRBU[redacted]300
MSN 701
HUMAN FACTORS GROUP

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF30816102.001	HFLIST1			
HF30826062.001	HFLIST1			
HF30836052.001	HFLIST1			
HF30846022.001	HFLIST1			
HF30856072.001	HFLIST1			
HF30866082.001	HFLIST1			
HF30876042.001	HFLIST1			
HF30886012.001	HFLIST1			
HF30897011.001	HFLIST1			
HF30907021.001	HFLIST1			
HF30917041.001	HFLIST1			
HF30927051.001	HFLIST1			
HF30937081.001	HFLIST1			
HF30947061.001	HFLIST1			
HF30957071.001	HFLIST1			
HF30967031.001	HFLIST1			
HF30977082.001	HFLIST1			
HF30987072.001	HFLIST1			
HF30997032.001	HFLIST1			
HF31007022.001	HFLIST1			
HF31017062.001	HFLIST1			
HF31027012.001	HFLIST1			
HF31037052.001	HFLIST1			
HF31047042.001	HFLIST1			
HF31058011.001	HFLIST1			
HF31068021.001	HFLIST1			
HF31078012.001	HFLIST1			
HF31088022.001	HFLIST1			

AIRBU[redacted]300
MSN 701
DFDR TEST

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
DFDRTEST.001	DFDRLIST1		DFDRLIST1	
DFDRTEST.002	DFDRLIST1		AIL_LH_573	
DFDRTEST.003	DFDRLIST1		AIL_RH_573	
DFDRTEST.004	DFDRLIST1		AILPOLHSDAC	31S310-1B
DFDRTEST.005	DFDRLIST1		AILPORHSDAC	31S310-1C
DFDRTEST.006	DFDRLIST1		AILPOSLHANLG	271020
			AILPOSRHANLG	271021
			CAS	341206
			CCF	271011
			CCP	271027
			CCP_573	
			CWF	271010
			CWP	271026
			CWP_573	
			ELEV_573	
			ELEVPOSANLG	271022
			ELEVPOSDAC	31S314
			GMT_HOURS	
			GMT_MIN	
			GMT_SEC	
			POTPWR	271125
			RDRPOSANLG	271024
			RPFLH	271001
			RPFRH	271002
			RPP	271025
			RPP_573	
			RSP_573	
			RSPSDAC	31S312
			WHEELPOSBUS	272071

APPENDIX III

PARAMETER LIST AND DATA FORMAT INFORMATION

ITEM **PAGE**

AIRBUS A[redacted]MSN 701
BIT SYNC / DECOM SETUP

BIT SYNC
Stream Name
MCI105_1

Card Number	Bit Rate	Deviation	Loop B/W	Polarity
1	70000	2	0.5	NORMAL

Clock Phase	Impedance	Input Code	Input Source	Tape Output
0	LOW	NRZ-L	EXT1	NRZ-L

DECOM
Stream Name
MCI105_1

Card Number	Channel Number	Frame Sync Size	Frame Sync Pattern	Frame Sync Mask
1	1	32	FE6B2840	FFFF

Matches for Lock	Misses to Drop	Max Bit Errors	Max Bit Slip	Frame Alt Comp
2	1	0	0	OFF

Virtual Decom	1st Bit Xmitted	Default Word Size	Input Source	Output Mode
NO	MSB	16	EXT	MINOR

Embedded Output	Data Polarity	Clock Phase	Impedance	Major Frame Structure
NONE	NORMAL	0	LOW	SFID

Words per Minor Frame	Number of Minor Frames	SFID/URC Size	SFID/URC Word Number	Bit Position
64	16	4	2	12

SFID 1st Bit	Min Value	Count Direction	SF Matches for Lock	SF Misses to Drop
MSB	0	UP	2	1

FCC/URC Sync Pattern	PCM Source	Decom Mode	Video Setup 1	Video Setup 2
	TTL	Standard	65538	131074

Parameter Name	Parameter Description	Primary Upper Limit	Primary Lower Limit	Units	Time Tag	Input Format
ABCCF	CPT CTL FORCE	5	-5	LBS	IRIG	BINARY
ABCWFCAPH	CPT WHEEL FORCE (HORIZONTAL)	5	-5	LBS	IRIG	BINARY
ABCWFCAPV	CPT WHEEL FORCE (VERTICAL)	5	-5	LBS	IRIG	BINARY
ABCWFFOH	F/O WHEEL FORCE (HORIZONTAL)	5	-5	LBS	IRIG	BINARY
ABRPF	YAW CONTROL FORCE	5	-5	LBS	IRIG	BINARY
AILPOLHSDAC	L/H AILERON POSITION SDAC	180	-180	DEG'S	IRIG	2'S COMPLEMENT
AILPOLHSDAC1	L/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPOLHSDAC2	L/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPOLHSDAC3	L/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPOLHSDAC4	L/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPOLHSDAC5	L/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPORHSDAC	R/H AILERON POSITION SDAC	180	-180	DEG'S	IRIG	2'S COMPLEMENT
AILPORHSDAC1	R/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPORHSDAC2	R/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPORHSDAC3	R/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPORHSDAC4	R/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPORHSDAC5	R/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPOSLHANLG	L/H AILERON POSITION ANALOG	23	19	DEG'S	IRIG	2'S COMPLEMENT
AILPOSRHANLG	R/H AILERON POSITION ANALOG	23	19	DEG'S	IRIG	2'S COMPLEMENT
ALT	ALTITUDE FINE	4095	0	FEET	IRIG	BINARY
ALT1	ALTITUDE COARSE & FINE	65535	0	COUNTS	IRIG	BINARY
ALT2	ALTITUDE COARSE & FINE	65535	0	COUNTS	IRIG	BINARY
ALT3	ALTITUDE COARSE & FINE	65535	0	COUNTS	IRIG	BINARY
ALT4	ALTITUDE COARSE & FINE	65535	0	COUNTS	IRIG	BINARY
ALT5	ALTITUDE COARSE & FINE	65535	0	COUNTS	IRIG	BINARY
BAROALT1	BAROMETRIC ALTITUDE	65535	0	COUNTS	IRIG	BINARY
BAROALT2	BAROMETRIC ALTITUDE	65535	0	COUNTS	IRIG	BINARY
BAROALT3	BAROMETRIC ALTITUDE	65535	0	COUNTS	IRIG	BINARY
BAROALT4	BAROMETRIC ALTITUDE	65535	0	COUNTS	IRIG	BINARY
BAROALT5	BAROMETRIC ALTITUDE	65535	0	COUNTS	IRIG	BINARY
BCDDAYS	BCD DAYS	65535	0	COUNTS	IRIG	BINARY
CAS	COMPUTED AIRSPEED	1024	0	KNOTS	IRIG	BINARY
CCF	CONTROL COLUMN FORCE	150	-150	LBS	IRIG	BINARY
CCP	CONTROL COLUMN POSITION	11	-11	DEG'S	IRIG	BINARY
COMPAS	COMPUTED AIRSPEED	1024	0	KNOTS	IRIG	BINARY
COMPAS1	COMPUTED AIRSPEED	65535	0	COUNTS	IRIG	BINARY
COMPAS2	COMPUTED AIRSPEED	65535	0	COUNTS	IRIG	BINARY
COMPAS3	COMPUTED AIRSPEED	65535	0	COUNTS	IRIG	BINARY
COMPAS4	COMPUTED AIRSPEED	65535	0	COUNTS	IRIG	BINARY
COMPAS5	COMPUTED AIRSPEED	65535	0	COUNTS	IRIG	BINARY
CWF	CONTROL WHEEL FORCE	150	-150	LBS	IRIG	BINARY

Parameter Name	Parameter Description	Primary Upper Limit	Primary Lower Limit	Units	Time Tag	Input Format
CWP	CONTROL WHEEL POSITION	78	-78	DEG'S	IRIG	BINARY
ELEVPOSANLG	ELEVATOR POSITION ANALOG	10	-11	DEG'S	IRIG	2'S COMPLEMENT
ELEVPOSSDAC	ELEVATOR POSITION SDAC	180	-180	DEG'S	IRIG	2'S COMPLEMENT
ELEVPOSSDAC1	ELEVATOR POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
ELEVPOSSDAC2	ELEVATOR POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
ELEVPOSSDAC3	ELEVATOR POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
ELEVPOSSDAC4	ELEVATOR POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
ELEVPOSSDAC5	ELEVATOR POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
FUNGEN	FUNCTION GENERATOR	65535	0	VDC	IRIG	BINARY
GMT_HOURS	GMT (HOURS,MIN,SEC)	64	0	HOURS	IRIG	BINARY
GMT_MIN	GMT (HOURS,MIN,SEC)	64	0	MINUTE	IRIG	BINARY
GMT_SEC	GMT (HOURS,MIN,SEC)	64	0	SEC'S	IRIG	BINARY
GMT1101001	NO DESCRIPTION	65535	0	COUNTS	IRIG	BINARY
GMT1101002	NO DESCRIPTION	65535	0	COUNTS	IRIG	BINARY
GMT1101003	NO DESCRIPTION	65535	0	COUNTS	IRIG	BINARY
GMT1101004	NO DESCRIPTION	65535	0	COUNTS	IRIG	BINARY
GMT1101005	NO DESCRIPTION	65535	0	COUNTS	IRIG	BINARY
GMTDMS1	GMT (DAYS,MILLISEC)	65535	0	COUNTS	IRIG	BINARY
GMTDMS2	GMT (DAYS,MILLISEC)	65535	0	COUNTS	IRIG	BINARY
GMTDMS3	GMT (DAYS,MILLISEC)	65535	0	COUNTS	IRIG	BINARY
GMTDMS4	GMT (DAYS,MILLISEC)	65535	0	COUNTS	IRIG	BINARY
GMTDMS5	GMT (DAYS,MILLISEC)	65535	0	COUNTS	IRIG	BINARY
GMTHMS1	GMT (HOURS,MIN,SEC)	65535	0	COUNTS	IRIG	BINARY
GMTHMS2	GMT (HOURS,MIN,SEC)	65535	0	COUNTS	IRIG	BINARY
GMTHMS3	GMT (HOURS,MIN,SEC)	65535	0	COUNTS	IRIG	BINARY
GMTHMS4	GMT (HOURS,MIN,SEC)	65535	0	COUNTS	IRIG	BINARY
GMTHMS5	GMT (HOURS,MIN,SEC)	65535	0	COUNTS	IRIG	BINARY
HITIME	HIGH TIME	65535	0	COUNTS	IRIG	BINARY
HITIMEREM	HIGH TIME REMOTE	65535	0	COUNTS	IRIG	BINARY
HYDPRESSBLU	HYDRAULIC PRESSURE - BLUE	4095	0	PSI	IRIG	BINARY
HYDPRESSBLU1	HYDRAULIC PRESSURE - BLUE	65535	0	COUNTS	IRIG	BINARY
HYDPRESSBLU2	HYDRAULIC PRESSURE - BLUE	65535	0	COUNTS	IRIG	BINARY
HYDPRESSBLU3	HYDRAULIC PRESSURE - BLUE	65535	0	COUNTS	IRIG	BINARY
HYDPRESSBLU4	HYDRAULIC PRESSURE - BLUE	65535	0	COUNTS	IRIG	BINARY
HYDPRESSBLU5	HYDRAULIC PRESSURE - BLUE	65535	0	COUNTS	IRIG	BINARY
HYDPRESSGRN	HYDRAULIC PRESSURE - GREEN	4095	0	PSI	IRIG	BINARY
HYDPRESSGRN1	HYDRAULIC PRESSURE - GREEN	65535	0	COUNTS	IRIG	BINARY
HYDPRESSGRN2	HYDRAULIC PRESSURE - GREEN	65535	0	COUNTS	IRIG	BINARY
HYDPRESSGRN3	HYDRAULIC PRESSURE - GREEN	65535	0	COUNTS	IRIG	BINARY
HYDPRESSGRN4	HYDRAULIC PRESSURE - GREEN	65535	0	COUNTS	IRIG	BINARY
HYDPRESSGRN5	HYDRAULIC PRESSURE - GREEN	65535	0	COUNTS	IRIG	BINARY

Parameter Name	Parameter Description	Primary Upper Limit	Primary Lower Limit	Units	Time Tag	Input Format
HYDPRESSYLW	HYDRAULIC PRESSURE - YELLOW	4095	0	PSI	IRIG	BINARY
HYDPRESSYLW1	HYDRAULIC PRESSURE - YELLOW	65535	0	COUNTS	IRIG	BINARY
HYDPRESSYLW2	HYDRAULIC PRESSURE - YELLOW	65535	0	COUNTS	IRIG	BINARY
HYDPRESSYLW3	HYDRAULIC PRESSURE - YELLOW	65535	0	COUNTS	IRIG	BINARY
HYDPRESSYLW4	HYDRAULIC PRESSURE - YELLOW	65535	0	COUNTS	IRIG	BINARY
HYDPRESSYLW5	HYDRAULIC PRESSURE - YELLOW	65535	0	COUNTS	IRIG	BINARY
LOTIME	LOW TIME	65535	0	COUNTS	IRIG	BINARY
LOTIMEREM	LOW TINE REMOTE	65535	0	COUNTS	IRIG	BINARY
MACH	MACH NUMBER	2.048000097	0	M	IRIG	BINARY
MACH1	MACH NUMBER	65535	0	COUNTS	IRIG	BINARY
MACH2	MACH NUMBER	65535	0	COUNTS	IRIG	BINARY
MACH3	MACH NUMBER	65535	0	COUNTS	IRIG	BINARY
MACH4	MACH NUMBER	65535	0	COUNTS	IRIG	BINARY
MACH5	MACH NUMBER	65535	0	COUNTS	IRIG	BINARY
MAS12VDCNEG	MASTER - 12 V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
MAS12VDCPOS	MASTER + 12 V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
MAS15VDCNEG	MASTER - 15 V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
MAS15VDCPOS	MASTER + 15 V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
MAS5VDCPOS	MASTER + 5 V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
MASIRIGSTAT	MASTER IRIG STATUS	65535	0	COUNTS	IRIG	BINARY
MASTERTEMP	MASTER TEMP	65535	0	COUNTS	IRIG	BINARY
MODYAWRATE	MODIFIED IRS YAW RATE	128	-128	DEG/S	IRIG	2'S COMPLEMENT
MODYAWRATE1	MODIFIED YAW RATE 1	65535	0	COUNTS	IRIG	BINARY
MODYAWRATE2	MODIFIED YAW RATE 2	65535	0	COUNTS	IRIG	BINARY
MODYAWRATE3	MODIFIED YAW RATE 3	65535	0	COUNTS	IRIG	BINARY
MODYAWRATE4	MODIFIED YAW RATE 4	65535	0	COUNTS	IRIG	BINARY
MODYAWRATE5	MODIFIED YAW RATE 5	65535	0	COUNTS	IRIG	BINARY
POTPWR	POTENTIOMETER POWER SUPPLY	5	0	VOLTS	IRIG	BINARY
RDRPOSANLG	RUDDER POSITION ANALOG	30	-30	DEG'S	IRIG	2'S COMPLEMENT
RDRTRVLFLC1	RUDDER TRAVEL LIMITER FAULT FLC 1	1	0	DISCRT	IRIG	BINARY
RDRTRVLFLC2	RUDDER TRAVEL LIMITER FAULT FLC 2	1	0	DISCRT	IRIG	BINARY
REM12VDCNEG	REMOTE - 12V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
REM12VDCPOS	REMOTE + 12V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
REM15VDCNEG	REMOTE - 15V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
REM15VDCPOS	REMOTE + 15V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
REM5VDCPOS	REMOTE + 5V POWER SUPPLY	65535	0	COUNTS	IRIG	BINARY
REMIRIGSTAT	REMOTE IRIG STATUS	65535	0	COUNTS	IRIG	BINARY
REMTEMP	REMOTE TEMP	65535	0	COUNTS	IRIG	BINARY
RPFLH	L/H RUDDER PEDAL FORCE	250	-250	LBS	IRIG	BINARY
RPFRH	R/H RUDDER PEDAL FORCE	250	-250	LBS	IRIG	BINARY
RPP	RUDDER PEDAL POSITION	24	0	DEG'S	IRIG	BINARY

Parameter Name	Parameter Description	Primary Upper Limit	Primary Lower Limit	Units	Time Tag	Input Format
RSPSDAC	RUDDER POSITION SDAC	180	-180	DEG'S	IRIG	2'S COMPLEMENT
RSPSDAC1	RUDDER POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
RSPSDAC2	RUDDER POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
RSPSDAC3	RUDDER POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
RSPSDAC4	RUDDER POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
RSPSDAC5	RUDDER POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
SFID	SUB FRAME ID	65535	0	COUNTS	IRIG	BINARY
STABPOSSDAC	STAB POSITION SDAC	180	-180	DEG'S	IRIG	2'S COMPLEMENT
STABPOSSDAC1	STAB POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
STABPOSSDAC2	STAB POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
STABPOSSDAC3	STAB POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
STABPOSSDAC4	STAB POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
STABPOSSDAC5	STAB POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
UTIME	MICRO TIME	65535	0	COUNTS	IRIG	BINARY
UTIMEREM	MICRO TIME REMOTE	65535	0	COUNTS	IRIG	BINARY
VARSTPACTPOS	VARIABLE STOP ACTUATOR POSITION	65535	0	MM	IRIG	BINARY
VARSTPACTTRVL	VARIABLE STOP ACTUATOR POSITION% TRVL	65535	0	%TRVL	IRIG	BINARY
WHEELPOSBUS	CONTROL WHEEL POSITION (A429)	189.8818054	-189.8818054	DEG'S	IRIG	2'S COMPLEMENT
WHEELPOSBUS1	CONTROL WHEEL POSITION (A429)	65535	0	COUNTS	IRIG	BINARY
WHEELPOSBUS2	CONTROL WHEEL POSITION (A429)	65535	0	COUNTS	IRIG	BINARY
WHEELPOSBUS3	CONTROL WHEEL POSITION (A429)	65535	0	COUNTS	IRIG	BINARY
WHEELPOSBUS4	CONTROL WHEEL POSITION (A429)	65535	0	COUNTS	IRIG	BINARY
WHEELPOSBUS5	CONTROL WHEEL POSITION (A429)	65535	0	COUNTS	IRIG	BINARY
YAAC	YAW AUTOPILOT ACTUATOR CMD (TEST BOX)	65535	0	M_AMP	IRIG	BINARY
YAWCMDFACOJT	YAW RATE COMMAND FAC 1 OUTPUT	15	-15	DEG'S	IRIG	BINARY
YAWPOSFACOJT	YAW DAMPER POSITION FAC 1 OUTPUT	15	-15	DEG'S	IRIG	BINARY
YAWRATE	YAW RATE	15	-15	DEG/S	IRIG	2'S COMPLEMENT
YAWRATE1	YAW RATE 1	65535	0	COUNTS	IRIG	BINARY
YAWRATE2	YAW RATE	65535	0	COUNTS	IRIG	BINARY
YAWRATE3	YAW RATE	65535	0	COUNTS	IRIG	BINARY
YAWRATE4	YAW RATE	65535	0	COUNTS	IRIG	BINARY
YAWRATE5	YAW RATE	65535	0	COUNTS	IRIG	BINARY
YAWSERFCCOJT	YAW AP ACTUATOR POSN FCC 2	32.61000061	-32.61000061	DEG'S	IRIG	BINARY
YAWSTABCMD	YAW STAB COMMAND 1	160	-160	DEG'S	IRIG	2'S COMPLEMENT
YAWSTABCMD1	YAW STAB COMMAND 1	65535	0	COUNTS	IRIG	BINARY
YAWSTABCMD2	YAW STAB COMMAND 1	65535	0	COUNTS	IRIG	BINARY
YAWSTABCMD3	YAW STAB COMMAND 1	65535	0	COUNTS	IRIG	BINARY
YAWSTABCMD4	YAW STAB COMMAND 1	65535	0	COUNTS	IRIG	BINARY
YAWSTABCMD5	YAW STAB COMMAND 1	65535	0	COUNTS	IRIG	BINARY
YDAC	YAW DAMPER ACTUATOR CMD (TEST BOX)	65535	0	M_AMP	IRIG	BINARY

AIRBUS A3[redacted] MSN 701
PCM STRUCTURE LIST

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
ABCCF	1	20	1	0	15	4
ABCWFCAFH	1	17	1	0	15	4
ABCWFCAFV	1	19	1	0	15	4
ABCWFFOH	1	18	1	0	15	4
ABRPF	1	16	1	0	15	4
AILPOLHSDAC	1	31	8	0	15	4
AILPOLHSDAC1	1	31	8	0	15	0
AILPOLHSDAC2	1	32	8	0	15	0
AILPOLHSDAC3	1	33	8	0	15	0
AILPOLHSDAC4	1	34	8	0	15	0
AILPOLHSDAC5	1	35	8	0	15	0
AILPORHSDAC	2	31	8	0	15	4
AILPORHSDAC1	2	31	8	0	15	0
AILPORHSDAC2	2	32	8	0	15	0
AILPORHSDAC3	2	33	8	0	15	0
AILPORHSDAC4	2	34	8	0	15	0
AILPORHSDAC5	2	35	8	0	15	0
AILPOSLHANLG	1	46	1	0	15	0
AILPOSRHANLG	1	47	1	0	15	0
ALT	1	26	4	0	9	0
ALT	1	27	4	0	15	14
ALT1	1	26	4	0	15	0
ALT2	1	27	4	0	15	0
ALT3	1	28	4	0	15	0
ALT4	1	29	4	0	15	0
ALT5	1	30	4	0	15	0
BAROALT1	2	26	4	0	15	0
BAROALT2	2	27	4	0	15	0
BAROALT3	2	28	4	0	15	0
BAROALT4	2	29	4	0	15	0
BAROALT5	2	30	4	0	15	0
BCDDAYS	1	3	1	0	15	0
CAS	5	21	8	0	14	3
CCF	1	9	1	0	15	4
CCP	1	13	2	0	15	4

AIRBUS A3[redacted]ISN 701
PCM STRUCTURE LIST

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
COMPAS	5	21	8	0	14	3
COMPAS1	5	21	8	0	15	0
COMPAS2	5	22	8	0	15	0
COMPAS3	5	23	8	0	15	0
COMPAS4	5	24	8	0	15	0
COMPAS5	5	25	8	0	15	0
CWF	1	8	1	0	15	4
CWP	2	13	2	0	15	4
ELEVPOSANLG	1	62	1	0	15	0
ELEVPOSSDAC	3	31	8	0	15	4
ELEVPOSSDAC1	3	31	8	0	15	0
ELEVPOSSDAC2	3	32	8	0	15	0
ELEVPOSSDAC3	3	33	8	0	15	0
ELEVPOSSDAC4	3	34	8	0	15	0
ELEVPOSSDAC5	3	35	8	0	15	0
FUNGEN	2	53	1	0	15	4
GMT_HOURS	3	21	8	0	15	10
GMT_MIN	3	21	8	0	9	4
GMT_SEC	3	21	0	0	3	0
GMT_SEC	3	22	0	0	15	14
GMT1101001	1	21	8	0	15	0
GMT1101002	1	22	8	0	15	0
GMT1101003	1	23	8	0	15	0
GMT1101004	1	24	8	0	15	0
GMT1101005	1	25	8	0	15	0
GMTDMS1	2	21	8	0	15	0
GMTDMS2	2	22	8	0	15	0
GMTDMS3	2	23	8	0	15	0
GMTDMS4	2	24	8	0	15	0
GMTDMS5	2	25	8	0	15	0
GMTHMS1	3	21	8	0	15	0
GMTHMS2	3	22	8	0	15	0
GMTHMS3	3	23	8	0	15	0
GMTHMS4	3	24	8	0	15	0
GMTHMS5	3	25	8	0	15	0

AIRBUS A3[illegible]SN 701
PCM STRUCTURE LIST

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
HITIME	1	4	1	0	15	0
HITIMEREM	1	54	1	0	15	0
HYDPRESSBLU	4	31	8	0	14	3
HYDPRESSBLU1	4	31	8	0	15	0
HYDPRESSBLU2	4	32	8	0	15	0
HYDPRESSBLU3	4	33	8	0	15	0
HYDPRESSBLU4	4	34	8	0	15	0
HYDPRESSBLU5	4	35	8	0	15	0
HYDPRESSGRN	5	31	8	0	14	3
HYDPRESSGRN1	5	31	8	0	15	0
HYDPRESSGRN2	5	32	8	0	15	0
HYDPRESSGRN3	5	33	8	0	15	0
HYDPRESSGRN4	5	34	8	0	15	0
HYDPRESSGRN5	5	35	8	0	15	0
HYDPRESSYLW	6	31	8	0	14	3
HYDPRESSYLW1	6	31	8	0	15	0
HYDPRESSYLW2	6	32	8	0	15	0
HYDPRESSYLW3	6	33	8	0	15	0
HYDPRESSYLW4	6	34	8	0	15	0
HYDPRESSYLW5	6	35	8	0	15	0
LOTIME	1	5	1	0	15	0
LOTIMEREM	1	55	1	0	15	0
MACH	6	21	8	0	13	2
MACH1	6	21	8	0	15	0
MACH2	6	22	8	0	15	0
MACH3	6	23	8	0	15	0
MACH4	6	24	8	0	15	0
MACH5	6	25	8	0	15	0
MAS12VDCNEG	1	7	0	0	15	4
MAS12VDCPOS	2	7	0	0	15	4
MAS15VDCNEG	3	7	0	0	15	4
MAS15VDCPOS	4	7	0	0	15	4
MAS5VDCPOS	5	7	0	0	15	4
MASIRIGSTAT	6	7	0	0	15	4
MASTERTEMP	7	7	0	0	15	4

AIRBUS A3[illegible]ISN 701
PCM STRUCTURE LIST

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
MODYAWRATE	1	57	1	0	14	0
MODYAWRATE1	1	57	1	0	15	0
MODYAWRATE2	1	58	1	0	15	0
MODYAWRATE3	1	59	1	0	15	0
MODYAWRATE4	1	60	1	0	15	0
MODYAWRATE5	1	61	1	0	15	0
POTPWR	1	52	8	0	15	4
RDRPOSANLG	1	63	1	0	15	0
RDRTRVLFLC1	3	52	8	0	15	15
RDRTRVLFLC2	4	52	8	0	15	15
REM12VDCNEG	8	7	0	0	15	0
REM12VDCPOS	9	7	0	0	15	0
REM15VDCNEG	10	7	0	0	15	0
REM15VDCPOS	11	7	0	0	15	0
REM5VDCPOS	12	7	0	0	15	0
REMIRIGSTAT	13	7	0	0	15	0
REMTEMP	14	7	0	0	15	0
RPFLH	1	10	1	0	15	4
RPFRH	1	11	1	0	15	4
RPP	1	14	2	0	15	4
RSPSDAC	7	31	8	0	15	4
RSPSDAC1	7	31	8	0	15	0
RSPSDAC2	7	32	8	0	15	0
RSPSDAC3	7	33	8	0	15	0
RSPSDAC4	7	34	8	0	15	0
RSPSDAC5	7	35	8	0	15	0
SFID	1	2	1	0	15	0
STABPOSSDAC	8	31	8	0	15	4
STABPOSSDAC1	8	31	8	0	15	0
STABPOSSDAC2	8	32	8	0	15	0
STABPOSSDAC3	8	33	8	0	15	0
STABPOSSDAC4	8	34	8	0	15	0
STABPOSSDAC5	8	35	8	0	15	0
UTIME	1	6	1	0	15	0
UTIMEREM	1	56	1	0	15	0

AIRBUS A[redacted] MSN 701
PCM STRUCTURE LIST

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
VARSTPACTPOS	1	51	1	0	15	4
VARSTPACTTRVL	1	51	1	0	15	4
WHEELPOSBUS	4	21	8	0	15	3
WHEELPOSBUS1	4	21	8	0	15	0
WHEELPOSBUS2	4	22	8	0	15	0
WHEELPOSBUS3	4	23	8	0	15	0
WHEELPOSBUS4	4	24	8	0	15	0
WHEELPOSBUS5	4	25	8	0	15	0
YAAC	1	15	1	0	15	4
YAWCMDFACOUT	1	48	1	0	15	4
YAWPOSFACOUT	1	49	1	0	15	4
YAWRATE	1	36	1	0	14	0
YAWRATE1	1	36	1	0	15	0
YAWRATE2	1	37	1	0	15	0
YAWRATE3	1	38	1	0	15	0
YAWRATE4	1	39	1	0	15	0
YAWRATE5	1	40	1	0	15	0
YAWSERFCCOUT	1	50	1	0	15	4
YAWSTABCMD	1	41	1	0	14	4
YAWSTABCMD1	1	41	1	0	15	0
YAWSTABCMD2	1	42	1	0	15	0
YAWSTABCMD3	1	43	1	0	15	0
YAWSTABCMD4	1	44	1	0	15	0
YAWSTABCMD5	1	45	1	0	15	0
YDAC	1	15	1	0	15	4

AIRBUS A3[redacted]N701
BIT SYNC / DECOM SETUP

BIT SYNC
Stream Name
A717

Card Number	Bit Rate	Deviation	Loop B/W	Polarity
2	768	2	0.5	NORMAL
Clock Phase	**Impedance**	**Input Code**	**Input Source**	**Tape Output**
0	LOW	BIO-M	EXT1	NRZ-L

DECOM
Stream Name
A717

Card Number	Channel Number	Frame Sync Size	Frame Sync Pattern	Frame Sync Mask
1	2	12	389	FFFF
Matches for Lock	**Misses to Drop**	**Max Bit Errors**	**Max Bit Slip**	**Frame Alt Comp**
2	1	0	0	OFF
1st Bit Xmitted	**Default Word Size**	**Input Source**	**Output Mode**	**Embedded Output**
LSB	12	EXT	MINOR	NONE
Clock Phase	**Impedance**	**Major Frame Structure**	**Words per Minor Frame**	**Number of Minor Frames**
0	LOW	SFID	66	4
SFID/URC Word Number	**Bit Position**	**SFID 1st Bit**	**Min Value**	**Count Direction**
2	1	LSB	0	UP
SF Misses to Drop	**FCC/URC Sync Pattern**	**PCM Source**	**Decom Mode**	**Video Setup 1**
1		TTL	Standard	65538
Virtual Decom	**Data Polarity**	**SFID/URC Size**	**SF Matches for Lock**	**Video Setup 2**
NO	NORMAL	2	2	131074

Parameter Name	Parameter Description	Primary Upper Limit	Primary Lower Limit	Units	Display Format	Time Tag	Input Format
A717WORD0000	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0001	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0002	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0003	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0004	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0005	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0006	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0007	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0008	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0009	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0010	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0011	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0012	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0013	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0014	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0015	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0016	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0017	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0018	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0019	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0020	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0021	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0022	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0023	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0024	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0025	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0026	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0027	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0028	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0029	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0030	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0031	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0032	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0033	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0034	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0035	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0036	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0037	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0038	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0039	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0040	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0041	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0042	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0043	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY

Parameter Name	Parameter Description	Primary Upper Limit	Primary Lower Limit	Units	Display Format	Time Tag	Input Format
A717WORD0044	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0045	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0046	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0047	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0048	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0049	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0050	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0051	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0052	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0053	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0054	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0055	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0056	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0057	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0058	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0059	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0060	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0061	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0062	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0063	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0064	NONE GIVEN	1	-1	N/A	FLOAT	IRIG	BINARY
AILPOS_LH_573	LEFT ALL SPEED AILERONPOSITION	180	-180	DEG'S	FLOAT	IRIG	2'S COMPLEMENT
AILPOS_RH_573	RIGHT ALL SPEED AILERON POSITION	180	-180	DEG'S	FLOAT	IRIG	2'S COMPLEMENT
CCP_573	CONTROL COLUMN POSITION	180	-180	DEG'S	FLOAT	IRIG	BINARY
CWP_573	CONTROL WHEEL POSITION	180	-180	DEG'S	FLOAT	IRIG	BINARY
ELEVP_573	ELEVATOR SURFACE POSITION	180	-180	DEG'S	FLOAT	IRIG	2'S COMPLEMENT
RPP_573	RUDDER PEDAL POSITION	180	-180	DEG'S	FLOAT	IRIG	BINARY
RSP_573	RUDDER SURFACE POSITION	180	-180	DEG'S	FLOAT	IRIG	2'S COMPLEMENT

AIRBUS A3[redacted] MSN 701
PCM STRUCTURE LIST

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
A717WORD0000	1	1	1	0	11	0
A717WORD0001	1	2	1	0	11	0
A717WORD0002	1	3	1	0	11	0
A717WORD0003	1	4	1	0	11	0
A717WORD0004	1	5	1	0	11	0
A717WORD0005	1	6	1	0	11	0
A717WORD0006	1	7	1	40	11	0
A717WORD0007	1	8	1	0	11	0
A717WORD0008	1	9	1	33	11	0
A717WORD0009	1	10	1	0	11	0
A717WORD0010	1	11	1	0	11	0
A717WORD0011	1	12	1	0	11	0
A717WORD0012	1	13	1	0	11	0
A717WORD0013	1	14	1	0	11	0
A717WORD0014	1	15	1	0	11	0
A717WORD0015	1	16	1	0	11	0
A717WORD0016	1	17	1	0	11	0
A717WORD0017	1	18	1	0	11	0
A717WORD0018	1	19	1	0	11	0
A717WORD0019	1	20	1	0	11	0
A717WORD0020	1	21	1	0	11	0
A717WORD0021	1	22	1	0	11	0
A717WORD0022	1	23	1	0	11	0
A717WORD0023	1	24	1	0	11	0
A717WORD0024	1	25	1	0	11	0
A717WORD0025	1	26	1	0	11	0
A717WORD0026	1	27	1	0	11	0
A717WORD0027	1	28	1	32	11	0
A717WORD0028	1	29	1	0	11	0
A717WORD0029	1	30	1	0	11	0
A717WORD0030	1	31	1	0	11	0
A717WORD0031	1	32	1	0	11	0
A717WORD0032	1	33	1	0	11	0
A717WORD0033	1	34	1	0	11	0
A717WORD0034	1	35	1	0	11	0

AIRBUS A3[redacted]SN 701
PCM STRUCTURE LIST

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
A717WORD0035	1	36	1	0	11	0
A717WORD0036	1	37	1	0	11	0
A717WORD0037	1	38	1	0	11	0
A717WORD0038	1	39	1	0	11	0
A717WORD0039	1	40	1	0	11	0
A717WORD0040	1	41	1	0	11	0
A717WORD0041	1	9	1	33	11	0
A717WORD0042	1	43	1	0	11	0
A717WORD0043	1	44	1	0	11	0
A717WORD0044	1	45	1	0	11	0
A717WORD0045	1	46	1	0	11	0
A717WORD0046	1	7	1	40	11	0
A717WORD0047	1	48	1	0	11	0
A717WORD0048	1	49	1	0	11	0
A717WORD0049	1	50	1	0	11	0
A717WORD0050	1	51	1	0	11	0
A717WORD0051	1	52	1	0	11	0
A717WORD0052	1	53	1	0	11	0
A717WORD0053	1	54	1	0	11	0
A717WORD0054	1	55	1	0	11	0
A717WORD0055	1	56	1	0	11	0
A717WORD0056	1	57	1	0	11	0
A717WORD0057	1	58	1	0	11	0
A717WORD0058	1	59	1	0	11	0
A717WORD0059	1	28	1	32	11	0
A717WORD0060	1	61	1	0	11	0
A717WORD0061	1	62	1	0	11	0
A717WORD0062	1	63	1	0	11	0
A717WORD0063	1	64	1	0	11	0
A717WORD0064	1	65	1	0	11	0
AILPOS_LH_573	1	10	1	0	11	0
AILPOS_RH_573	1	41	1	0	11	0
CCP_573	1	29	1	0	11	0
CWP_573	1	22	1	0	11	0
ELEVP_573	1	9	1	33	11	0

AIRBUS A3[illegible] MSN 701
PCM STRUCTURE LIST

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
RPP_573	1	7	1	40	11	0
RSP_573	1	28	1	32	11	0

AIRBUS A[redacted] MSN 701
CAIS PCM MAP

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	SFID	BCDDAYS	HITIME	LOTIME	UTIME	MAS12VDCNEG	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
2	SFID	BCDDAYS	HITIME	LOTIME	UTIME	MAS12VDCPOS	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
3	SFID	BCDDAYS	HITIME	LOTIME	UTIME	MAS15VDCNEG	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
4	SFID	BCDDAYS	HITIME	LOTIME	UTIME	MAS15VDCPOS	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
5	SFID	BCDDAYS	HITIME	LOTIME	UTIME	MAS5VDCPOS	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
6	SFID	BCDDAYS	HITIME	LOTIME	UTIME	MASIRIGSTAT	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
7	SFID	BCDDAYS	HITIME	LOTIME	UTIME	MASTERTEMP	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
8	SFID	BCDDAYS	HITIME	LOTIME	UTIME	REM12VDCNEG	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
9	SFID	BCDDAYS	HITIME	LOTIME	UTIME	REM12VDCPOS	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
10	SFID	BCDDAYS	HITIME	LOTIME	UTIME	REM15VDCNEG	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
11	SFID	BCDDAYS	HITIME	LOTIME	UTIME	REM15VDCPOS	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
12	SFID	BCDDAYS	HITIME	LOTIME	UTIME	REM5VDCPOS	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
13	SFID	BCDDAYS	HITIME	LOTIME	UTIME	REMIRIGSTAT	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
14	SFID	BCDDAYS	HITIME	LOTIME	UTIME	REMTEMP	CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
15	SFID	BCDDAYS	HITIME	LOTIME	UTIME		CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF
16	SFID	BCDDAYS	HITIME	LOTIME	UTIME		CWF	CCF	RPFLH	RPFRH	CWP	CCP	RPP	YAAC/YDAC	ABRPF

	16	17	18	19	20	21
1	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	GMT1101001	GMT1101002
2	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	GMTDMS1	GMTDMS2
3	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	GMT_HOURS/GMT_MIN/GMT_SEC/GMTHMS1	GMT_SEC/GMTHMS2
4	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	WHEELPOSBUS/WHEELPOSBUS1	WHEELPOSBUS2
5	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	CAS/COMPAS/COMPAS1	COMPAS2
6	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	MACH/MACH1	MACH2
7	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF		
8	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF		
9	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	GMT1101001	GMT1101002
10	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	GMTDMS1	GMTDMS2
11	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	GMT_HOURS/GMT_MIN/GMT_SEC/GMTHMS1	GMT_SEC/GMTHMS2
12	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	WHEELPOSBUS/WHEELPOSBUS1	WHEELPOSBUS2
13	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	CAS/COMPAS/COMPAS1	COMPAS2
14	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF	MACH/MACH1	MACH2
15	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF		
16	ABCWFCAPH	ABCWFFOH	ABCWFCAPV	ABCCF		

	22	23	24	25	26	27	28	29
1	GMT1101003	GMT1101004	GMT1101005	ALT/ALT1	ALT/ALT2	ALT3	ALT4	ALT5
2	GMTDMS3	GMTDMS4	GMTDMS5	BAROALT1	BAROALT2	BAROALT3	BAROALT4	BAROALT5
3	GMTHMS3	GMTHMS4	GMTHMS5					
4	WHEELPOSBUS3	WHEELPOSBUS4	WHEELPOSBUS5					
5	COMPAS3	COMPAS4	COMPAS5	ALT/ALT1	ALT/ALT2	ALT3	ALT4	ALT5
6	MACH3	MACH4	MACH5	BAROALT1	BAROALT2	BAROALT3	BAROALT4	BAROALT5
7								
8								
9	GMT1101003	GMT1101004	GMT1101005	ALT/ALT1	ALT/ALT2	ALT3	ALT4	ALT5
10	GMTDMS3	GMTDMS4	GMTDMS5	BAROALT1	BAROALT2	BAROALT3	BAROALT4	BAROALT5
11	GMTHMS3	GMTHMS4	GMTHMS5					
12	WHEELPOSBUS3	WHEELPOSBUS4	WHEELPOSBUS5					
13	COMPAS3	COMPAS4	COMPAS5	ALT/ALT1	ALT/ALT2	ALT3	ALT4	ALT5
14	MACH3	MACH4	MACH5	BAROALT1	BAROALT2	BAROALT3	BAROALT4	BAROALT5
15								
16								

	30	31	32	33	34	35
1	AILPOLHSDAC/AILPOLHSDAC1	AILPOLHSDAC2	AILPOLHSDAC3	AILPOLHSDAC4	AILPOLHSDAC5	YAWRATE/YAWRATE1
2	AILPORHSDAC/AILPORHSDAC1	AILPORHSDAC2	AILPORHSDAC3	AILPORHSDAC4	AILPORHSDAC5	YAWRATE/YAWRATE1
3	ELEVPOSSDAC/ELEVPOSSDAC1	ELEVPOSSDAC2	ELEVPOSSDAC3	ELEVPOSSDAC4	ELEVPOSSDAC5	YAWRATE/YAWRATE1
4	HYDPRESSBLU/HYDPRESSBLU1	HYDPRESSBLU2	HYDPRESSBLU3	HYDPRESSBLU4	HYDPRESSBLU5	YAWRATE/YAWRATE1
5	HYDPRESSGRN/HYDPRESSGRN1	HYDPRESSGRN2	HYDPRESSGRN3	HYDPRESSGRN4	HYDPRESSGRN5	YAWRATE/YAWRATE1
6	HYDPRESSYLW/HYDPRESSYLW1	HYDPRESSYLW2	HYDPRESSYLW3	HYDPRESSYLW4	HYDPRESSYLW5	YAWRATE/YAWRATE1
7	RSPSDAC/RSPSDAC1	RSPSDAC2	RSPSDAC3	RSPSDAC4	RSPSDAC5	YAWRATE/YAWRATE1
8	STABPOSSDAC/STABPOSSDAC1	STABPOSSDAC2	STABPOSSDAC3	STABPOSSDAC4	STABPOSSDAC5	YAWRATE/YAWRATE1
9	AILPOLHSDAC/AILPOLHSDAC1	AILPOLHSDAC2	AILPOLHSDAC3	AILPOLHSDAC4	AILPOLHSDAC5	YAWRATE/YAWRATE1
10	AILPORHSDAC/AILPORHSDAC1	AILPORHSDAC2	AILPORHSDAC3	AILPORHSDAC4	AILPORHSDAC5	YAWRATE/YAWRATE1
11	ELEVPOSSDAC/ELEVPOSSDAC1	ELEVPOSSDAC2	ELEVPOSSDAC3	ELEVPOSSDAC4	ELEVPOSSDAC5	YAWRATE/YAWRATE1
12	HYDPRESSBLU/HYDPRESSBLU1	HYDPRESSBLU2	HYDPRESSBLU3	HYDPRESSBLU4	HYDPRESSBLU5	YAWRATE/YAWRATE1
13	HYDPRESSGRN/HYDPRESSGRN1	HYDPRESSGRN2	HYDPRESSGRN3	HYDPRESSGRN4	HYDPRESSGRN5	YAWRATE/YAWRATE1
14	HYDPRESSYLW/HYDPRESSYLW1	HYDPRESSYLW2	HYDPRESSYLW3	HYDPRESSYLW4	HYDPRESSYLW5	YAWRATE/YAWRATE1
15	RSPSDAC/RSPSDAC1	RSPSDAC2	RSPSDAC3	RSPSDAC4	RSPSDAC5	YAWRATE/YAWRATE1
16	STABPOSSDAC/STABPOSSDAC1	STABPOSSDAC2	STABPOSSDAC3	STABPOSSDAC4	STABPOSSDAC5	YAWRATE/YAWRATE1

	36	37	38	39	40	41	42
1	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
2	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
3	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
4	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
5	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
6	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
7	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
8	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
9	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
10	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
11	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
12	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
13	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
14	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
15	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3
16	YAWRATE2	YAWRATE3	YAWRATE4	YAWRATE5	YAWSTABCMD/YAWSTABCMD1	YAWSTABCMD2	YAWSTABCMD3

	43	44	45	46	47	48	49
1	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
2	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
3	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
4	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
5	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
6	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
7	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
8	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
9	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
10	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
11	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
12	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
13	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
14	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
15	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWPOSFACOUT	YAWSERFCCOUT
16	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACCUT	YAWPOSFACOUT	YAWSERFCCOUT

	50	51	52	53	54	55	56
1	VARSTPACTPOS/VARSTPACTTRVL	POTPWR		HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
2	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
3	VARSTPACTPOS/VARSTPACTTRVL	RDRTRVLFLC1	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
4	VARSTPACTPOS/VARSTPACTTRVL	RDRTRVLFLC2	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
5	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
6	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
7	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
8	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
9	VARSTPACTPOS/VARSTPACTTRVL	POTPWR	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
10	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
11	VARSTPACTPOS/VARSTPACTTRVL	RDRTRVLFLC1	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
12	VARSTPACTPOS/VARSTPACTTRVL	RDRTRVLFLC2	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
13	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
14	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
15	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
16	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1

	57	58	59	60	61	62	63	64
1	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
2	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
3	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
4	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
5	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
6	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
7	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
8	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
9	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
10	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
11	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
12	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
13	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
14	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
15	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
16	MODYAWRATE2	MODYAWRATE3	MODYAWRATE4	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC

	1	2	3	4	5	6
1	A717WORD0000	A717WORD0001	A717WORD0002	A717WORD0003	A717WORD0004	A717WORD0005
2	A717WORD0000	A717WORD0001	A717WORD0002	A717WORD0003	A717WORD0004	A717WORD0005
3	A717WORD0000	A717WORD0001	A717WORD0002	A717WORD0003	A717WORD0004	A717WORD0005
4	A717WORD0000	A717WORD0001	A717WORD0002	A717WORD0003	A717WORD0004	A717WORD0005

	7	8	9
1	A717WORD0006/A717WORD0046/RPP_573	A717WORD0007	A717WORD0008/A717WORD0041/ELEVP_573
2	A717WORD0006/A717WORD0046/RPP_573	A717WORD0007	A717WORD0008/A717WORD0041/ELEVP_573
3	A717WORD0006/A717WORD0046/RPP_573	A717WORD0007	A717WORD0008/A717WORD0041/ELEVP_573
4	A717WORD0006/A717WORD0046/RPP_573	A717WORD0007	A717WORD0008/A717WORD0041/ELEVP_573

	10	11	12	13	14	15
1	A717WORD0009/AILPOS_LH_573	A717WORD0010	A717WORD0011	A717WORD0012	A717WORD0013	A717WORD0014
2	A717WORD0009/AILPOS_LH_573	A717WORD0010	A717WORD0011	A717WORD0012	A717WORD0013	A717WORD0014
3	A717WORD0009/AILPOS_LH_573	A717WORD0010	A717WORD0011	A717WORD0012	A717WORD0013	A717WORD0014
4	A717WORD0009/AILPOS_LH_573	A717WORD0010	A717WORD0011	A717WORD0012	A717WORD0013	A717WORD0014

	16	17	18	19	20	21
1	A717WORD0015	A717WORD0016	A717WORD0017	A717WORD0018	A717WORD0019	A717WORD0020
2	A717WORD0015	A717WORD0016	A717WORD0017	A717WORD0018	A717WORD0019	A717WORD0020
3	A717WORD0015	A717WORD0016	A717WORD0017	A717WORD0018	A717WORD0019	A717WORD0020
4	A717WORD0015	A717WORD0016	A717WORD0017	A717WORD0018	A717WORD0019	A717WORD0020

	22	23	24	25	26	27
1	A717WORD0021/CWP_573	A717WORD0022	A717WORD0023	A717WORD0024	A717WORD0025	A717WORD0026
2	A717WORD0021/CWP_573	A717WORD0022	A717WORD0023	A717WORD0024	A717WORD0025	A717WORD0026
3	A717WORD0021/CWP_573	A717WORD0022	A717WORD0023	A717WORD0024	A717WORD0025	A717WORD0026
4	A717WORD0021/CWP_573	A717WORD0022	A717WORD0023	A717WORD0024	A717WORD0025	A717WORD0026

	28	29	30	31	32
1	A717WORD0027/A717WORD0059/RSP_573	A717WORD0028/CCP_573	A717WORD0029	A717WORD0030	A717WORD0031
2	A717WORD0027/A717WORD0059/RSP_573	A717WORD0028/CCP_573	A717WORD0029	A717WORD0030	A717WORD0031
3	A717WORD0027/A717WORD0059/RSP_573	A717WORD0028/CCP_573	A717WORD0029	A717WORD0030	A717WORD0031
4	A717WORD0027/A717WORD0059/RSP_573	A717WORD0028/CCP_573	A717WORD0029	A717WORD0030	A717WORD0031

	33	34	35	36	37	38	39
1	A717WORD0032	A717WORD0033	A717WORD0034	A717WORD0035	A717WORD0036	A717WORD0037	A717WORD0038
2	A717WORD0032	A717WORD0033	A717WORD0034	A717WORD0035	A717WORD0036	A717WORD0037	A717WORD0038
3	A717WORD0032	A717WORD0033	A717WORD0034	A717WORD0035	A717WORD0036	A717WORD0037	A717WORD0038
4	A717WORD0032	A717WORD0033	A717WORD0034	A717WORD0035	A717WORD0036	A717WORD0037	A717WORD0038

	40	41	42	43
1	A717WORD0039	A717WORD0040/AILPOS_RH_573	A717WORD0008/A717WORD0041/ELEVP_573	A717WORD0042
2	A717WORD0039	A717WORD0040/AILPOS_RH_573	A717WORD0008/A717WORD0041/ELEVP_573	A717WORD0042
3	A717WORD0039	A717WORD0040/AILPOS_RH_573	A717WORD0008/A717WORD0041/ELEVP_573	A717WORD0042
4	A717WORD0039	A717WORD0040/AILPOS_RH_573	A717WORD0008/A717WORD0041/ELEVP_573	A717WORD0042

	44	45	46	47	48	49
1	A717WORD0043	A717WORD0044	A717WORD0045	A717WORD0006/A717WORD0046/RPP_573	A717WORD0047	A717WORD0048
2	A717WORD0043	A717WORD0044	A717WORD0045	A717WORD0006/A717WORD0046/RPP_573	A717WORD0047	A717WORD0048
3	A717WORD0043	A717WORD0044	A717WORD0045	A717WORD0006/A717WORD0046/RPP_573	A717WORD0047	A717WORD0048
4	A717WORD0043	A717WORD0044	A717WORD0045	A717WORD0006/A717WORD0046/RPP_573	A717WORD0047	A717WORD0048

AIRBUS A[redacted]MSN 701
A573 / 717 PCM MAP

	50	51	52	53	54	55	56
1	A717WORD0049	A717WORD0050	A717WORD0051	A717WORD0052	A717WORD0053	A717WORD0054	A717WORD0055
2	A717WORD0049	A717WORD0050	A717WORD0051	A717WORD0052	A717WORD0053	A717WORD0054	A717WORD0055
3	A717WORD0049	A717WORD0050	A717WORD0051	A717WORD0052	A717WORD0053	A717WORD0054	A717WORD0055
4	A717WORD0049	A717WORD0050	A717WORD0051	A717WORD0052	A717WORD0053	A717WORD0054	A717WORD0055

	57	58	59	60	61	62
1	A717WORD0056	A717WORD0057	A717WORD0058	A717WORD0027/A717WORD0059/RSP_573	A717WORD0060	A717WORD0061
2	A717WORD0056	A717WORD0057	A717WORD0058	A717WORD0027/A717WORD0059/RSP_573	A717WORD0060	A717WORD0061
3	A717WORD0056	A717WORD0057	A717WORD0058	A717WORD0027/A717WORD0059/RSP_573	A717WORD0060	A717WORD0061
4	A717WORD0056	A717WORD0057	A717WORD0058	A717WORD0027/A717WORD0059/RSP_573	A717WORD0060	A717WORD0061

	63	64	65
1	A717WORD0062	A717WORD0063	A717WORD0064
2	A717WORD0062	A717WORD0063	A717WORD0064
3	A717WORD0062	A717WORD0063	A717WORD0064
4	A717WORD0062	A717WORD0063	A717WORD0064

Card: RCI-105
Short Name: **BCDDAYS**
Long Name: BCD DAYS
Parameter Data Word: BCD Days
Time Code Read Mode: Sample Only
Minimum Sample Rate: 0
Actual Sample Rates:
Format 1 : 68.000000

Card: RCI-105
Short Name: **HITIME**
Long Name: HIGH TIME
Parameter Data Word: High Time Word
Time Code Read Mode: Sample Only
Minimum Sample Rate: 0
Actual Sample Rates:
Format 1 : 68.000000

Card: RCI-105
Short Name: **LOTIME**
Long Name: LOW TIME
Parameter Data Word: Low Time Word
Time Code Read Mode: Sample Only
Minimum Sample Rate: 0
Actual Sample Rates:
Format 1 : 68.000000

Card: RCI-105
Short Name: **MAS12VDCNEG**
Long Name: MASTER - 12 V POWER SUPPLY
Parameter Data Word: -12V Supply Status
Time Code Read Mode: Sample Only
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 4.000000

Card: RCI-105
Short Name: **MAS12VDCPOS**
Long Name: MASTER + 12 V POWER SUPPLY
Parameter Data Word: +12V Supply Status
Time Code Read Mode: Sample Only
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 4.000000

Card: RCI-105
Short Name: **MAS15VDCNEG**
Long Name: MASTER - 15 V POWER SUPPLY
Parameter Data Word: -15V Supply Status
Time Code Read Mode: Sample Only
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 4.000000

Card: RCI-105
Short Name: **MAS15VDCPOS**
Long Name: MASTER + 15 V POWER SUPPLY
Parameter Data Word: +15V Supply Status
Time Code Read Mode: Sample Only
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 4.000000

Card: RCI-105
Short Name: **MAS5VDCPOS**
Long Name: MASTER + 5 V POWER SUPPLY
Parameter Data Word: +5V Supply Status
Time Code Read Mode: Sample Only
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 4.000000

Card: RCI-105
Short Name: **MASIRIGSTAT**
Long Name: MASTER IRIG STATUS
Data Word: IRIG Status
Time Code Read Mode: Sample Only
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 4.000000

Card: RCI-105
Short Name: **MASTERTEMP**
Long Name: MASTER TEMP
Data Word: Box Temperature
Time Code Read Mode: Sample Only
Minimum Sample Rate: 0
Actual Sample Rates:
Format 1 : 4.000000

Card: RCI-105
Short Name: **UTIME**
Long Name: MICRO TIME
Parameter Data Word: Micro Time Word
Time Code Read Mode: Sample Only
Minimum Sample Rate: 0
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **CCF**
Long Name: CONTROL COLUMN FORCE
Alias: COLUMNFORCE
Notes: TAP INSTALLED
Channel: 2
Range Low: -0.00454468
Range High: 0.00454468
Cutoff Frequency (for channel): 14
Sample Error: 0.0041
Output Format: Straight Binary
Primary Gain: 1000
Secondary Gain: 1.100188
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **CCP**
Long Name: CONTROL COLUMN POSITION
Alias: COLUMNPOS
Notes: INPUT TO DFDAU
Channel: 6
Range Low: 0
Range High: 3.33252
Cutoff Frequency (for channel): 14
Sample Error: 0.5514
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 3.000733
Offset: -50.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 30
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **CWF**
Long Name: CONTROL WHEEL FORCE
Alias: WHEELFORCE
Notes: TAP INSTALLED
Channel: 1
Range Low: -0.00357056
Range High: 0.00357056
Cutoff Frequency (for channel): 14
Sample Error: 0.004874
Output Format: Straight Binary
Primary Gain: 1000
Secondary Gain: 1.400342
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 68
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **CWP**
Long Name: CONTROL WHEEL POSITION
Alias: WHEELPOS
Notes: INPUT TO DFDAU
Channel: 7
Range Low: 0
Range High: 5
Cutoff Frequency (for channel): 14
Sample Error: 0.5514
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 2.000000
Offset: -50.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 30
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **CWT**
Long Name: CONTROL WHEEL TORQUE
Alias: WHEELTORQUE
Notes: TAP INSTALLED
Channel: 5
Range Low: -4.99878
Range High: 4.99878
Cutoff Frequency (for channel): 14
Sample Error: 0.004096
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.000244
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:

Card: SCD-108S-1
Short Name: **RPFLH**
Long Name: L/H RUDDER PEDAL FORCE
Alias: L/HRUDRPEDFOR
Channel: 3
Range Low: -0.0298203
Range High: 0.00406641
Cutoff Frequency (for channel): 14
Sample Error: 0.00487
Output Format: Straight Binary
Primary Gain: 100
Secondary Gain: 2.951009
Offset: 38.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 68
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **RPFRH**
Long Name: R/H RUDDER PEDAL FORCE
Alias: R/HRUDRPEDFOR
Channel: 4
Range Low: -0.0298203
Range High: 0.00406641
Cutoff Frequency (for channel): 14
Sample Error: 0.00487
Output Format: Straight Binary
Primary Gain: 100
Secondary Gain: 2.951009
Offset: 38.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 68
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **RPP**
Long Name: RUDDER PEDAL POSITION
Alias: RDRPEDPOS
Notes: INPUT TO DFDAU
Channel: 8
Range Low: 0
Range High: 3.99902
Cutoff Frequency (for channel): 14
Sample Error: 0.004874
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 2.500611
Offset: -50.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 68
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **ABCCF**
Long Name: CPT CTL FORCE
Notes: AIRBUS
Channel: 8
Range Low: -4.99878
Range High: 4.99878
Cutoff Frequency (for channel): 14
Sample Error: 0.0041
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.000244
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **ABCWFCAPH**
Long Name: CPT WHEEL FORCE (HORIZONTAL)
Notes: AIRBUS
Channel: 5
Range Low: -4.99878
Range High: 4.99878
Cutoff Frequency (for channel): 14
Sample Error: 0.004874
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.000244
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 68
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **ABCWFCAPV**
Long Name: CPT WHEEL FORCE (VERTICAL)
Notes: AIRBUS
Channel: 7
Range Low: -4.99878
Range High: 4.99878
Cutoff Frequency (for channel): 14
Sample Error: 0.004096
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.000244
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **ABCWFFOH**
Long Name: F/O WHEEL FORCE (HORIZONTAL)
Notes: AIRBUS
Channel: 6
Range Low: -4.99878
Range High: 4.99878
Cutoff Frequency (for channel): 14
Sample Error: 0.03083
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.000244
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 50
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **ABRPF**
Long Name: YAW CONTROL FORCE
Notes: AIRBUS
Channel: 4
Range Low: -4.99878
Range High: 4.99878
Cutoff Frequency (for channel): 14
Sample Error: 0.004096
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.000244
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **FACC**
Long Name: FLT AUG COMPUTER COMMAND (TESTBOX)
Alias: FACC
Channel: 1
Range Low: -4.99878
Range High: 4.99878
Cutoff Frequency (for channel): 14
Sample Error: 0.03083
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.000244
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 50
Actual Sample Rates:

Card: SCD-108S-1
Short Name: **YAAC**
Long Name: YAW AUTOPILOT ACTUATOR CMD (TEST BOX)
Alias: YAAAC
Channel: 2
Range Low: -0.0526123
Range High: 0.0526123
Cutoff Frequency (for channel): 14
Sample Error: 0.0041
Output Format: Straight Binary
Primary Gain: 10
Secondary Gain: 9.503480
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **YDAC**
Long Name: YAW DAMP ACTUATOR CMD (TEST BOX)
Alias: YDAC
Channel: 3
Range Low: -0.0526123
Range High: 0.0526123
Cutoff Frequency (for channel): 14
Sample Error: 0.004096
Output Format: Straight Binary
Primary Gain: 10
Secondary Gain: 9.503480
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:

Card: BIM-429-4
Short Name: **AILPOLHSDAC1**
Long Name: L/H AILERON POSITION SDAC
Alias: AILPOSLHSDAC
Channel: 5
Data Component: Sample MSB Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **AILPOLHSDAC2**
Long Name: L/H AILERON POSITION SDAC
Alias: AILPOSLHSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **AILPOLHSDAC3**
Long Name: L/H AILERON POSITION SDAC
Alias: AILPOSLHSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **AILPOLHSDAC4**
Long Name: L/H AILERON POSITION SDAC
Alias: AILPOSLHSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **AILPOLHSDAC5**
Long Name: L/H AILERON POSITION SDAC
Alias: AILPOSLHSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **AILPORHSDAC1**
Long Name: R/H AILERON POSITION SDAC
Alias: AILPOSRHSDAC
Channel: 5
Data Component: Sample MSB Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **AILPORHSDAC2**
Long Name: R/H AILERON POSITION SDAC
Alias: AILPOSRHSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **AILPORHSDAC3**
Long Name: R/H AILERON POSITION SDAC
Alias: AILPOSRHSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **AILPORHSDAC4**
Long Name: R/H AILERON POSITION SDAC
Alias: AILPOSRHSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **AILPORHSDAC5**
Long Name: R/H AILERON POSITION SDAC
Alias: AILPOSRHSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 310
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **ALT1**
Long Name: ALTITUDE COARSE & FINE
Alias: ALTITUDE
Notes: ADC
Channel: 3
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 203
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **ALT2**
Long Name: ALTITUDE COARSE & FINE
Alias: ALTITUDE
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 203
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **ALT3**
Long Name: ALTITUDE COARSE & FINE
Alias: ALTITUDE
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 203
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **ALT4**
Long Name: ALTITUDE COARSE & FINE
Alias: ALTITUDE
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 203
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **ALT5**
Long Name: ALTITUDE COARSE & FINE
Alias: ALTITUDE
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 203
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **BAROALT1**
Long Name: BAROMETRIC ALTITUDE
Alias: BARO ALT
Notes: ADC
Channel: 3
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 204
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **BAROALT2**
Long Name: BAROMETRIC ALTITUDE
Alias: BARO ALT
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 204
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **BAROALT3**
Long Name: BAROMETRIC ALTITUDE
Alias: BARO ALT
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 204
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **BAROALT4**
Long Name: BAROMETRIC ALTITUDE
Alias: BARO ALT
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 204
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **BAROALT5**
Long Name: BAROMETRIC ALTITUDE
Alias: BARO ALT
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 204
Minimum Sample Rate: 16
Actual Sample Rates:
Format 1 : 17.000000

Card: BIM-429-4
Short Name: **COMPAS1**
Long Name: COMPUTED AIRSPEED
Alias: CAS
Notes: ADC
Channel: 3
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 206
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **COMPAS2**
Long Name: COMPUTED AIRSPEED
Alias: COMPAIRSPEED
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 206
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **COMPAS3**
Long Name: COMPUTED AIRSPEED
Alias: COMPAIRSPEED
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 206
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **COMPAS4**
Long Name: COMPUTED AIRSPEED
Alias: COMPAIRSPEED
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 206
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **COMPAS5**
Long Name: COMPUTED AIRSPEED
Alias: COMPAIRSPEED
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 206
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **ELEVPOSSDAC1**
Long Name: ELEVATOR POSITION SDAC
Alias: ELEVPOSSDAC
Channel: 5
Data Component: Sample MSB Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 314
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **ELEVPOSSDAC2**
Long Name: ELEVATOR POSITION SDAC
Alias: ELEVPOSSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 314
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **ELEVPOSSDAC3**
Long Name: ELEVATOR POSITION SDAC
Alias: ELEVPOSSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 314
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **ELEVPOSSDAC4**
Long Name: ELEVATOR POSITION SDAC
Alias: ELEVPOSSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 314
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **ELEVPOSSDAC5**
Long Name: ELEVATOR POSITION SDAC
Alias: ELEVPOSSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 314
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMT1101001**
Channel: 1
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 125
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMT1101002**
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 125
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMT1101003**
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 125
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMT1101004**
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 125
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMT1101005**
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 125
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTDmS1**
Long Name: GMT (DAYS,MILLISEC)
Channel: 1
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 260
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTDmS2**
Long Name: GMT (DAYS,MILLISEC)
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 260
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTDmS3**
Long Name: GMT (DAYS,MILLISEC)
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 260
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTDmS4**
Long Name: GMT (DAYS,MILLISEC)
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 260
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTDmS5**
Long Name: GMT (DAYS,MILLISEC)
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 260
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTHMS1**
Long Name: GMT (HOURS,MIN,SEC)
Channel: 1
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 150
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTHMS2**
Long Name: GMT (HOURS,MIN,SEC)
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 150
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTHMS3**
Long Name: GMT (HOURS,MIN,SEC)
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 150
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTHMS4**
Long Name: GMT (HOURS,MIN,SEC)
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 150
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **GMTHMS5**
Long Name: GMT (HOURS,MIN,SEC)
Channel: 1
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 150
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSBLU1**
Long Name: HYDRAULIC PRESSURE - BLUE
Alias: HYD PRESS BLUE
Channel: 5
Data Component: Sample MSB Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 174
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSBLU2**
Long Name: HYDRAULIC PRESSURE - BLUE
Alias: HYD PRESS BLUE
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 3
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSBLU3**
Long Name: HYDRAULIC PRESSURE - BLUE
Alias: HYD PRESS BLUE
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 3
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM 429-4
Short Name: **HYDPRESSBLU4**
Long Name: HYDRAULIC PRESSURE - BLUE
Alias: HYD PRESS BLUE
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 3
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSBLU5**
Long Name: HYDRAULIC PRESSURE - BLUE
Alias: HYD PRESS BLUE
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 3
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSGRN1**
Long Name: HYDRAULIC PRESSURE - GREEN
Alias: HYD PRESS GREEN
Channel: 5
Data Component: Sample MSB Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 174
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSGRN2**
Long Name: HYDRAULIC PRESSURE - GREEN
Alias: HYD PRESS GREEN
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 174
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSGRN3**
Long Name: HYDRAULIC PRESSURE - GREEN
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 174
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSGRN4**
Long Name: HYDRAULIC PRESSURE - GREEN
Alias: HYD PRESS GREEN
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 174
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSGRN5**
Long Name: HYDRAULIC PRESSURE - GREEN
Alias: HYD PRESS GREEN
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 1
Label Number: Octal
Label Number Base: 174
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSYLW1**
Long Name: HYDRAULIC PRESSURE - YELLOW
Alias: HYD PRESS YELLOW
Channel: 5
Data Component: Sample MSB Data
Label Selection: SDI 3
Label Number: Octal
Label Number Base: 174
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSYLW2**
Long Name: HYDRAULIC PRESSURE - YELLOW
Alias: HYD PRESS YELLOW
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSYLW3**
Long Name: HYDRAULIC PRESSURE - YELLOW
Alias: HYD PRESS YELLOW
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSYLW4**
Long Name: HYDRAULIC PRESSURE - YELLOW
Alias: HYD PRESS YELLOW
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **HYDPRESSYLW5**
Long Name: HYDRAULIC PRESSURE - YELLOW
Alias: HYD PRESS YELLOW
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 2
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **MACH1**
Long Name: MACH NUMBER
Alias: MACH NUMBER
Notes: ADC
Channel: 3
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 205
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **MACH2**
Long Name: MACH NUMBER
Alias: MACH NUMBER
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 205
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **MACH3**
Long Name: MACH NUMBER
Alias: MACH NUMBER
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 205
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **MACH4**
Long Name: MACH NUMBER
Alias: MACH NUMBER
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 205
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **MACH5**
Long Name: MACH NUMBER
Alias: MACH NUMBER
Notes: ADC
Channel: 3
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 205
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **Mod_YAWRate1**
Long Name: Modified YAW Rate 1
Alias: Mod_YAWRate
Channel: 6
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **Mod_YAWRate2**
Long Name: Modified YAW Rate 2
Alias: Mod_YAWRate
Channel: 6
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **Mod_YAWRate3**
Long Name: Modified YAW Rate 3
Alias: Mod_YAWRate
Channel: 6
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **Mod_YAWRate4**
Long Name: Modified YAW Rate 4
Alias: Mod_YAWRate
Channel: 6
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **Mod_YAWRate5**
Long Name: Modified YAW Rate 5
Channel: 6
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **RSPSDAC1**
Long Name: RUDDER POSITION SDAC
Alias: RSPSDAC
Channel: 5
Data Component: Sample MSB Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 312
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **RSPSDAC2**
Long Name: RUDDER POSITION SDAC
Alias: RSPSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 312
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **RSPSDAC3**
Long Name: RUDDER POSITION SDAC
Alias: RSPSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 312
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **RSPSDAC4**
Long Name: RUDDER POSITION SDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 312
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **RSPSDAC5**
Long Name: RUDDER POSITION SDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 312
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **STABPOSSDAC1**
Long Name: STAB POSITION SDAC
Alias: STABPOSSDAC
Channel: 5
Data Component: Sample MSB Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **STABPOSSDAC2**
Long Name: STAB POSITION SDAC
Alias: STABPOSSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **STABPOSSDAC3**
Long Name: STAB POSITION SDAC
Alias: STABPOSSDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **STABPOSSDAC4**
Long Name: STAB POSITION SDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **STABPOSSDAC5**
Long Name: STAB POSITION SDAC
Channel: 5
Data Component: Read Residual Data
Label Selection: SDI 0
Label Number: Octal
Label Number Base: 315
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **WHEELPOSBUS1**
Long Name: CONTROL WHEEL POSITION (A429)
Notes: EFCU
Channel: 2
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 71
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **WHEELPOSBUS2**
Long Name: CONTROL WHEEL POSITION (A429)
Notes: EFCU
Channel: 2
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 71
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **WHEELPOSBUS3**
Long Name: CONTROL WHEEL POSITION (A429)
Notes: EFCU
Channel: 2
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 71
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **WHEELPOSBUS4**
Long Name: CONTROL WHEEL POSITION (A429)
Channel: 2
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 71
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **WHEELPOSBUS5**
Long Name: CONTROL WHEEL POSITION (A429)
Channel: 2
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 71
Minimum Sample Rate: 8
Actual Sample Rates:
Format 1 : 8.000000

Card: BIM-429-4
Short Name: **YAWRATE1**
Long Name: YAW RATE 1
Alias: YAW RATE 1
Notes: FAC
Channel: 7
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **YAWRATE2**
Long Name: YAW RATE
Alias: YAW RATE
Notes: FAC
Channel: 7
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **YAWRATE3**
Long Name: YAW RATE
Alias: YAW RATE
Notes: FAC
Channel: 7
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **YAWRATE4**
Long Name: YAW RATE
Alias: YAW RATE
Notes: FAC
Channel: 7
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **YAWRATE5**
Long Name: YAW RATE
Alias: YAW RATE
Notes: FAC
Channel: 7
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 330
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **YAWSTABCMD1**
Long Name: YAW STAB COMMAND 1
Alias: YAW STAB CMD 1
Channel: 7
Data Component: Sample MSB Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 255
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **YAWSTABCMD2**
Long Name: YAW STAB COMMAND 1
Alias: YAW STAB CMD 1
Channel: 7
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 255
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **YAWSTABCMD3**
Long Name: YAW STAB COMMAND 1
Channel: 7
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 255
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **YAWSTABCMD4**
Long Name: YAW STAB COMMAND 1
Channel: 7
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 255
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: BIM-429-4
Short Name: **YAWSTABCMD5**
Long Name: YAW STAB COMMAND 1
Alias: YAW STAB CMD 1
Channel: 7
Data Component: Read Residual Data
Label Selection: SDI Bits are Don't Care
Label Number: Octal
Label Number Base: 255
Minimum Sample Rate: 64
Actual Sample Rates:
Format 1 : 68.000000

Card: SRD-103-1
Short Name: **AILPOSLHANLG**
Long Name: L/H AILERON POSITION ANALOG
Alias: AILPOSLHANLG
Notes: FROM SENSOR
Chan: Channel 1
Mode: Synchro
S1/S3: Normal
Offset: 0.000000
Minimum Sample Rate: 30
Actual Sample Rates:
Format 1 : 68.000000

Card: SRD-103-1
Short Name: **AILPOSRHANLG**
Long Name: R/H AILERON POSITION ANALOG
Alias: AILPOSRHANLG
Notes: FROM SENSOR
Chan: Channel 2
Mode: Synchro
S1/S3: Normal
Offset: 0.000000
Minimum Sample Rate: 30
Actual Sample Rates:
Format 1 : 68.000000

Card: SRD-103-1
Short Name: **ELEVPOSANLG**
Long Name: ELEVATOR POSITION ANALOG
Notes: FROM SENSOR
Chan: Channel 3
Mode: Synchro
S1/S3: Normal
Offset: 0.000000
Minimum Sample Rate: 30
Actual Sample Rates:
Format 1 : 68.000000

Card: SRD-103-1
Short Name: **RDRPOSANLG**
Long Name: RUDDER POSITION ANALOG
Notes: FROM SENSOR
Chan: Channel 1
Mode: Synchro
S1/S3: Normal
Offset: 0.000000
Minimum Sample Rate: 30
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **FUNGEN**
Long Name: FUNCTION GENERATOR
Alias: FUNCT GEN
Channel: 6
Range Low: -3.33252
Range High: 3.33252
Cutoff Frequency (for channel): 14
Sample Error: 0.0041
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.500366
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **POTPWR**
Long Name: POTENTIOMETER POWER SUPPLY
Alias: POT PWR SUPPLY
Channel: 5
Range Low: 0
Range High: 5.0415
Cutoff Frequency (for channel): 14
Sample Error: 0.004096
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.983535
Offset: -50.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 8.000000

Card: SCD-108S-1
Short Name: **VARSTPACTPOS**
Long Name: VARIABLE STOP ACTUATOR POSITION
Alias: VAR STP ACT POS
Channel: 4
Range Low: -1.33301
Range High: 5.33203
Cutoff Frequency (for channel): 14
Sample Error: 0.004096
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.500366
Offset: -30.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:

Card: SCD-108S-1
Short Name: **VARSTPACTPOS**
Channel: 8
Range Low: -1
Range High: 4
Cutoff Frequency (for channel): 14
Sample Error: 0.004096
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 2.000000
Offset: -30.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **YAWCMDFACOUT**
Long Name: YAW COMMAND FAC 1 OUTPUT
Alias: YAW CMD FAC OUT
Channel: 1
Range Low: -3.33252
Range High: 3.33252
Cutoff Frequency (for channel): 14
Sample Error: 0.0041
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.500366
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **YAWPOSFACOUT**
Long Name: YAW POSITION FAC 1 OUTPUT
Alias: YAW POS FAC OUT
Channel: 2
Range Low: -3.33252
Range High: 3.33252
Cutoff Frequency (for channel): 14
Sample Error: 0.0041
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.500366
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: SCD-108S-1
Short Name: **YAWSERFCCOUT**
Long Name: YAW SERVO FCC 1 OUTPUT
Alias: YAW SER FCC OUT
Channel: 3
Range Low: -3.33252
Range High: 3.33252
Cutoff Frequency (for channel): 14
Sample Error: 0.0041
Output Format: Straight Binary
Primary Gain: 1
Secondary Gain: 1.500366
Offset: 0.000000
Trim Counts: 0
Sampling Mode: Sequential
Minimum Sample Rate: 70
Actual Sample Rates:
Format 1 : 68.000000

Card: BLS-148-1
Short Name: **RDRTRVLFLC1**
Long Name: RUDDER TRAVEL LIMITER FAULT FLC 1
Alias: RDR TRV LIM FLT1
Parameter Details: Word 1 Data
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

Card: BLS-148-1
Short Name: **RDRTRVLFLC2**
Long Name: RUDDER TRAVEL LIMITER FAULT FLC 2
Alias: RDR TRV LIM FLT2
Parameter Details: Word 2 Data
Minimum Sample Rate: 1
Actual Sample Rates:
Format 1 : 8.000000

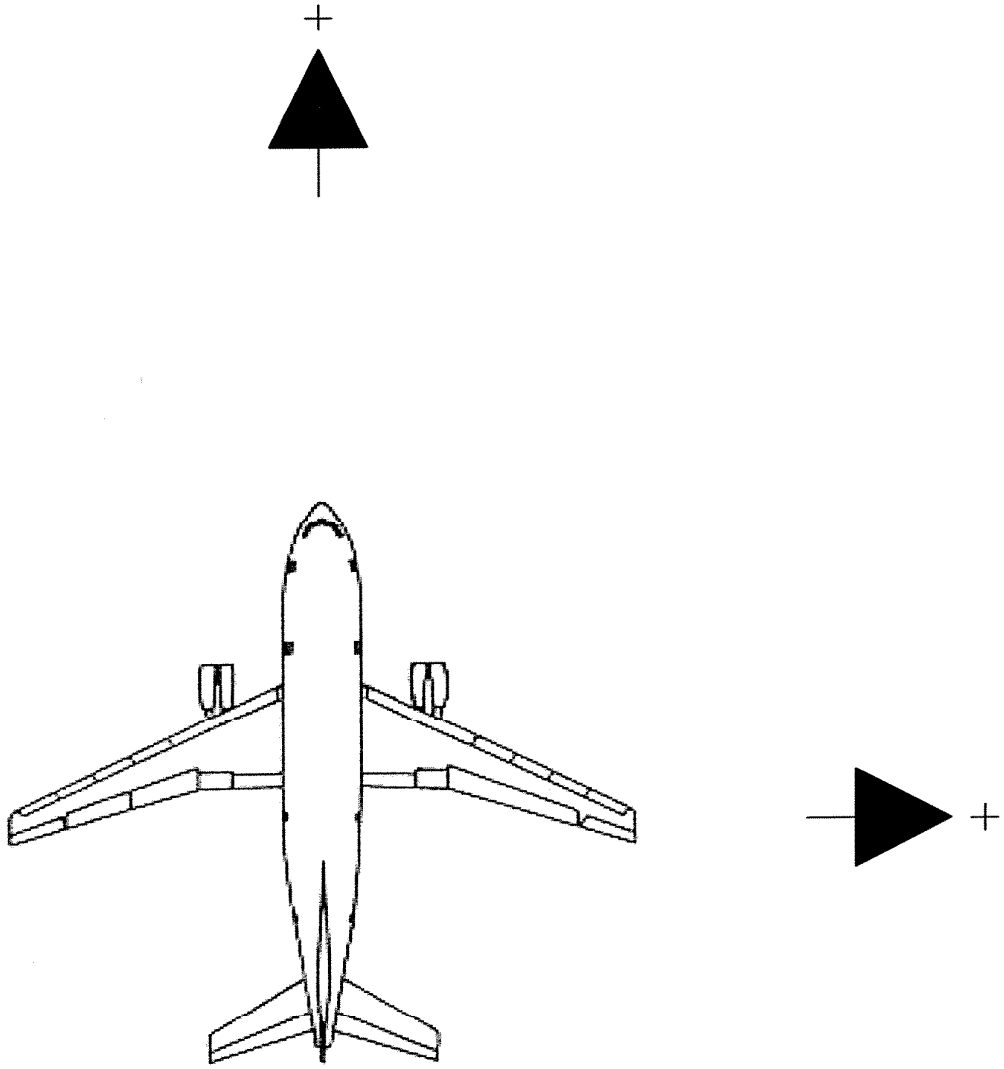
APPENDIX IV

CALIBRATION INDEX

PARAME[redacted]WITH COEFFICIENTS ONLY

Name	Description	EU Units	High Value	Low Value	EU Conversion Type	C0	C1
ABCCF	CPT CTL FORCE	LBS	5	-5	COE	-9.2059625861E+02	4.4950989200E-01
ABCWFCAPH	CPT WHEEL FORCE (HORIZONTAL)	LBS	5	-5	COE	-6.9044719400E+02	3.3713241900E-01
ABCWFCAPV	CPT WHEEL FORCE (VERTICAL)	LBS	5	-5	COE	-5.1200204800E+00	2.5000100000E-03
ABCWFFOH	F/O WHEEL FORCE (HORIZONTAL)	LBS	5	-5	COE	-6.9044719400E+02	3.3713241900E-01
ABRPF	YAW CONTROL FORCE	LBS	450	-450	COE	-4.6029812900E+02	2.2475494600E-01
AILPOLHSDAC	L/H AILERON POSITION SDAC	DEG'S	180	-180	COE	0.0000000000E+00	8.7912000000E-02
AILPORHSDAC	R/H AILERON POSITION SDAC	DEG'S	180	-180	COE	0.0000000000E+00	8.7912000000E-02
ALT	ALTITUDE FINE	FEET	4095	0	COE	0.0000000000E+00	1.0000000000E+00
BAROALT1	BAROMETRIC ALTITUDE	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
BCDDAYS	BCD DAYS	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
CAS	COMPUTED AIRSPEED	KNOTS	1024	0	COE	0.0000000000E+00	2.5000000000E-01
CAS (COMPAS)	COMPUTED AIRSPEED	KNOTS	1024	0	COE	0.0000000000E+00	2.5000000000E-01
ELEVPOSSDAC	ELEVATOR POSITION SDAC	DEG'S	180	-180	COE	0.0000000000E+00	8.7912000000E-02
FUNGEN	FUNCTION GENERATOR	VDC	65535	0	COE	-1.7062400000E+01	8.3312500000E-03
GMT_HOURS	GMT (HOURS	HOURS	64	0	COE	0.0000000000E+00	1.0000000000E+00
GMT_MIN	GMT (HOURS	MINUTE	64	0	COE	0.0000000000E+00	1.0000000000E+00
GMT_SEC	GMT (HOURS	SEC'S	64	0	COE	0.0000000000E+00	1.0000000000E+00
GMT_SEC	GMT (HOURS	SEC'S	64	0	COE	0.0000000000E+00	1.0000000000E+00
GMT1101001	No Description	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
GMTDMS1	GMT (DAYS	MILLISEC)	65535	0	COE	0.0000000000E+00	1.0000000000E+00
GMTHMS1	GMT (HOURS	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
HITIME	HIGH TIME	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
HITIMEREM	HIGH TIME REMOTE	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
HYDPRESSBLU	HYDRAULIC PRESSURE - BLUE	PSI	4095	0	COE	0.0000000000E+00	1.0000000000E+00
HYDPRESSGRN	HYDRAULIC PRESSURE - GREEN	PSI	4095	0	COE	0.0000000000E+00	1.0000000000E+00
HYDPRESSYLW	HYDRAULIC PRESSURE - YELLOW	PSI	4095	0	COE	0.0000000000E+00	1.0000000000E+00
LOTIME	LOW TIME	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
LOTIMEREM	LOW TIME REMOTE	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
MACH	MACH NUMBER	M	2.048	0	COE	0.0000000000E+00	1.0000000000E-03
MAS12VDCNEG	MASTER - 12 V POWER SUPPLY	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E-00
MAS12VDCPOS	MASTER + 12 V POWER SUPPLY	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E-00
MAS15VDCNEG	MASTER - 15 V POWER SUPPLY	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E-00
MAS15VDCPOS	MASTER + 15 V POWER SUPPLY	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E-00
MAS5VDCPOS	MASTER + 5 V POWER SUPPLY	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E-00
MASIRIGSTAT	MASTER IRIG STATUS	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E-00
MASTERTEMP	MASTER TEMP	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
MODYAWRATE	MODIFIED IRS YAW RATE	DEG/S	20	-20	COE	0.0000000000E+00	3.9063692000E-03
POTPWR	POTENTIOMETER POWER SUPPLY	VOLTS	5	0	COE	-6.0000000000E-02	1.2500000000E-03
RDRTRVLFLC1	RUDDER TRAVEL LIMITER FAULT FLC 1	DISCRT	1	0	NON		
RDRTRVLFLC2	RUDDER TRAVEL LIMITER FAULT FLC 2	DISCRT	1	0	NON		
RSPSDAC	RUDDER POSITION SDAC	DEG'S	180	-180	COE	0.0000000000E+00	8.7912000000E-02
SFID	Sub Frame ID	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
STABPOSSDAC	STAB POSITION SDAC	DEG'S	180	-180	COE	0.0000000000E+00	8.7912000000E-02
UTIME	MICRO TIME	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
UTIMEREM	MICRO TIME REMOTE	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
VARSTPACTPOS	VARIABLE STOP ACTUATOR POSITION	MM	65535	0	COE	-1.0625000000E+01	1.2500000000E-02
VARSTPACTTRVL	VARIABLE STOP ACTUATOR POSITION% TRVL	%TRVL	65535	0	COE	-2.6579112000E+01	3.1269543000E-02
WHEELPOSEUS	CONTROL WHEEL POSITION (A429)	DEG'S	189.8818	-189.8818	COE	0.0000000000E+00	4.6369000000E-02
YAWCMDFACOUT	YAW RATE COMMAND FAC 1 OUTPUT	DEG'S	15	-15	COE	-1.7062400000E+01	8.3312500000E-03
YAWPOSFACOUT	YAW DAMPER POSITION FAC 1 OUTFUT	DEG'S	15	-15	COE	-1.7062400000E+01	8.3312500000E-03
YAWRATE	YAW RATE	DEG/S	15	-15	COE	0.0000000000E+00	9.1600000000E-04
YAWSERFCCOUT	YAW AP ACTUATOR POSN FCC 2	DEG'S	32.61	-32.61	COE	-3.7092173824E+01	1.8111413000E-02
YAWSTABCMD	YAW STAB COMMAND 1	DEG'S	160	-160	COE	0.0000000000E+00	1.5632600000E-01

SIGN CONVENTION: CALIBRATIONS PERFORMED USING A CLIMBING RIGHT-HAND TURN AS POSITIVE



CALIBRATION EQUIPMENT SUMMARY

5.4.2.2 EQUIPMENT	SERIAL NUMBER	CALIBRATION DATE	DATE DUE	CALIBRATION AUTHORITY
ANGLE STAR DIGITAL PROTRACTOR	METER: 22650030 SENSOR: 20060034	06-Nov-01	6-May-03	NAVY METCAL LAB
KELL-STROM DIGITAL INCLINOMETER	S1005	22-Jul-02	22-Jul-03	NAVY METCAL LAB

5.4.4.4 EQUIPMENT	SERIAL NUMBER	CALIBRATION DATE	DATE DUE	CALIBRATION AUTHORITY
SLOTTED CLASS C WEIGHTS		24-Jul-02	24-Jul-03	TAP 5.4.2.3
A300 YOKE (CONTROL WHEEL)		02-Aug-02	TBD	TAP 5.4.4.4
TAP RUDDER PEDALS		02-Aug-02	TBD	TAP 5.4.4.4
MICRO-MEASUREMENT STRAIN INDICATOR		AUG-SEP	SETUP PRIOR TO USE	TAP 5.4.4.4
FORCE GAGE		AUG-SEP	CAL EACH USE	TAP 5.4.4.4

Calibration Data Sheet

Date: 11/26/2002 Time: 13:02:28

TMATS File: C:\My Documents\A300\REPORT\a300_pcm_export112602.tma

Parameter Name: AILPOSLHANLG

Description: L/H AILERON POSITION ANALOG

Units: DEG'S

Transducer

Type:

Model:

S/N:

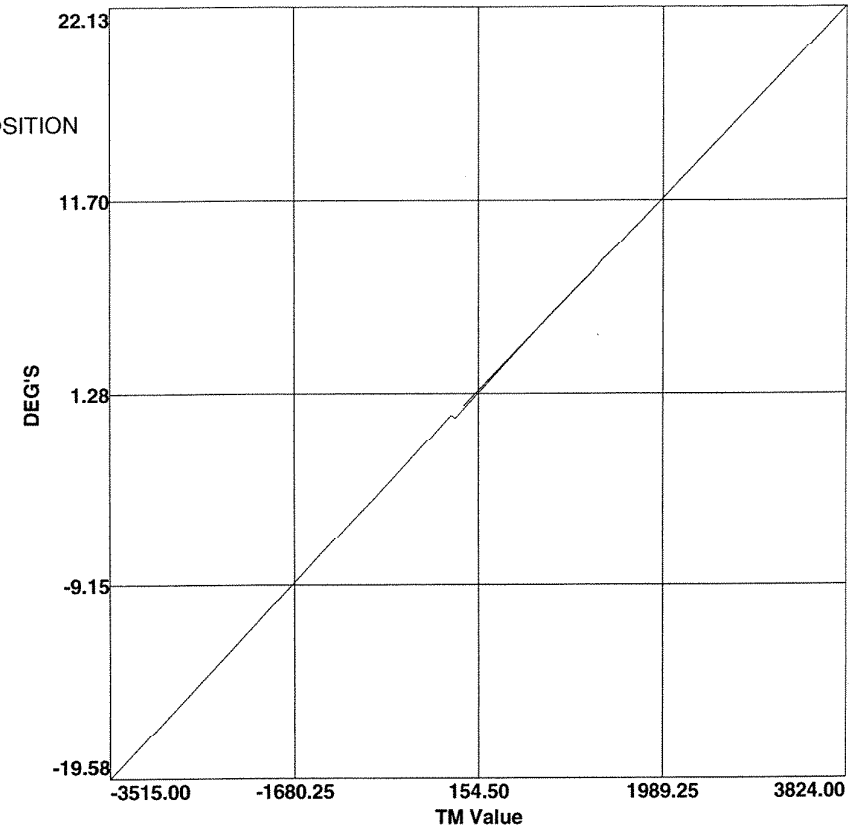
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error	#	TM Value	EU Value	Corrected	Error
1	-3515.0000	-19.5800	-19.5791	0.0009	11	792.0000	5.0700	5.0590	-0.0110
2	-2748.0000	-15.1700	-15.1666	0.0034	12	874.0000	5.5400	5.5220	-0.0180
3	-2674.0000	-14.7300	-14.7395	-0.0095	13	1612.0000	9.6800	9.6863	0.0063
4	-1896.0000	-10.2400	-10.2513	-0.0113	14	1702.0000	10.1700	10.1940	0.0240
5	-1837.0000	-9.9400	-9.9116	0.0284	15	2527.0000	14.8600	14.8461	-0.0139
6	-1060.0000	-5.4300	-5.4533	-0.0233	16	2588.0000	15.2000	15.1898	-0.0102
7	-941.0000	-4.7800	-4.7733	0.0067	17	3405.0000	19.7900	19.7817	-0.0083
8	-122.0000	0.0800	-0.1124	-0.1924	18	3499.0000	20.2800	20.3076	0.0276
9	-98.0000	0.0000	0.0237	0.0237	19	3824.0000	22.1300	22.1196	-0.0104
10	-85.0000	-0.0900	0.0974	0.1874					

EU = (5.79324781E-001) + (5.66775835E-003)X + (-1.82210175E-008)X^2 + (4.28580426E-012)X^3 + (3.58837495E-016)X^4 + (-2.23998478E-019)X^5

Correlation Coefficient: 0.99998717 **LSBF Order:** 5

RMS: 0.06351263

1 Count: 0.58499252 **3824 Counts:** 22.11961102

Calibration Data Sheet

Date: 09/27/2002 Time: 13:00:32
TMATS File: c:\my documents\a300\a300export.tma

Parameter Name: CCF

Description: CONTROL COLUMN FORCE

Units: LBS

Transducer

Type: AIRBUS WHEEL

Model: CIRCUIT 1

S/N:

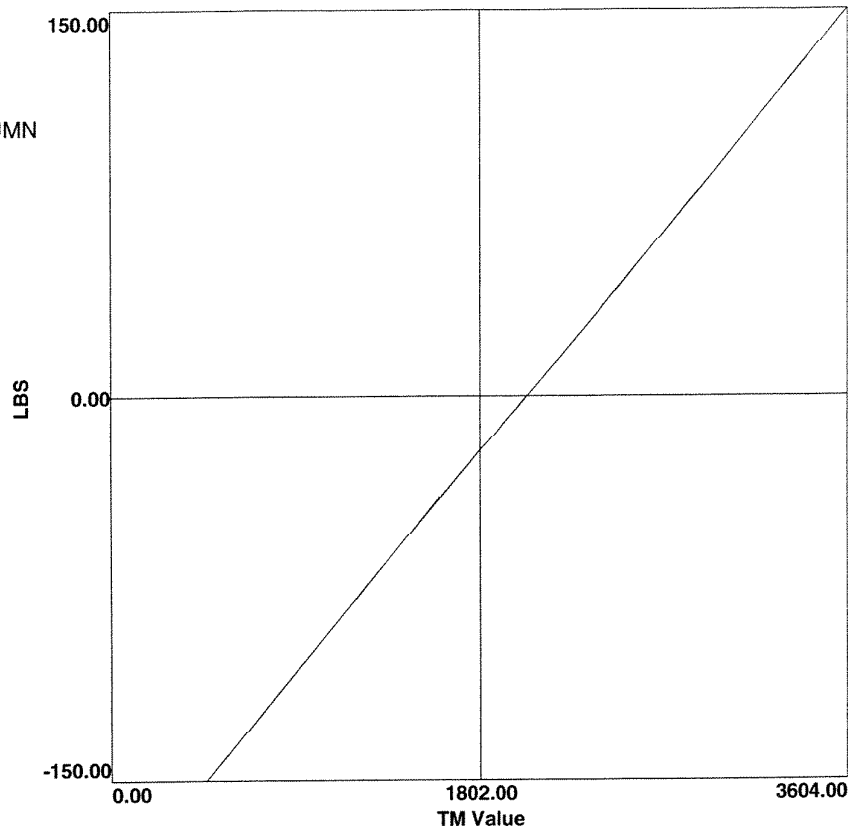
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error
1	459.0000	-150.0000	-149.8729	0.1271
2	561.0000	-140.0000	-140.1251	-0.1251
3	562.0000	-140.0000	-140.0292	-0.0292
4	768.0000	-120.0000	-120.1833	-0.1833
5	771.0000	-120.0000	-119.8935	0.1065
6	1185.0000	-80.0000	-80.0082	-0.0082
7	1188.0000	-80.0000	-79.7208	0.2792
8	1601.0000	-40.0000	-40.4720	-0.4720
9	1609.0000	-40.0000	-39.7174	0.2826
10	2030.0000	0.0000	-0.1696	-0.1696
11	2032.0000	0.0000	0.0179	0.0179
12	2032.0000	0.0000	0.0179	0.0179
13	2455.0000	40.0000	39.8366	-0.1634
14	2462.0000	40.0000	40.4995	0.4995
15	2872.0000	80.0000	79.6362	-0.3638
16	2877.0000	80.0000	80.1172	0.1172
17	3289.0000	120.0000	119.8854	-0.1146
18	3292.0000	120.0000	120.1747	0.1747
19	3499.0000	140.0000	140.0246	0.0246
20	3499.0000	140.0000	140.0246	0.0246
21	3604.0000	150.0000	149.9574	-0.0426

EU = (-1.91908215E+002) + (8.62686516E-002)X + (1.59457743E-005)X^2 + (-1.08915488E-008)X^3 + (3.11406766E-012)X^4 + (-3.15254696E-016)X^5

Correlation Coefficient: 0.99999775 **LSBF Order:** 5

RMS: 0.21342591

1 Count: -191.82193029 **3604 Counts:** 149.95737136

Calibration Data Sheet

Date: 11/26/2002 Time: 13:31:39
TMATS File: c:\my documents\a300\report\a300_pcm_export112602.tma

Parameter Name: AILPOSRHANLG

Description: R/H AILERON POSITION ANALOG

Units: DEG'S

Transducer

Type:

Model:

S/N:

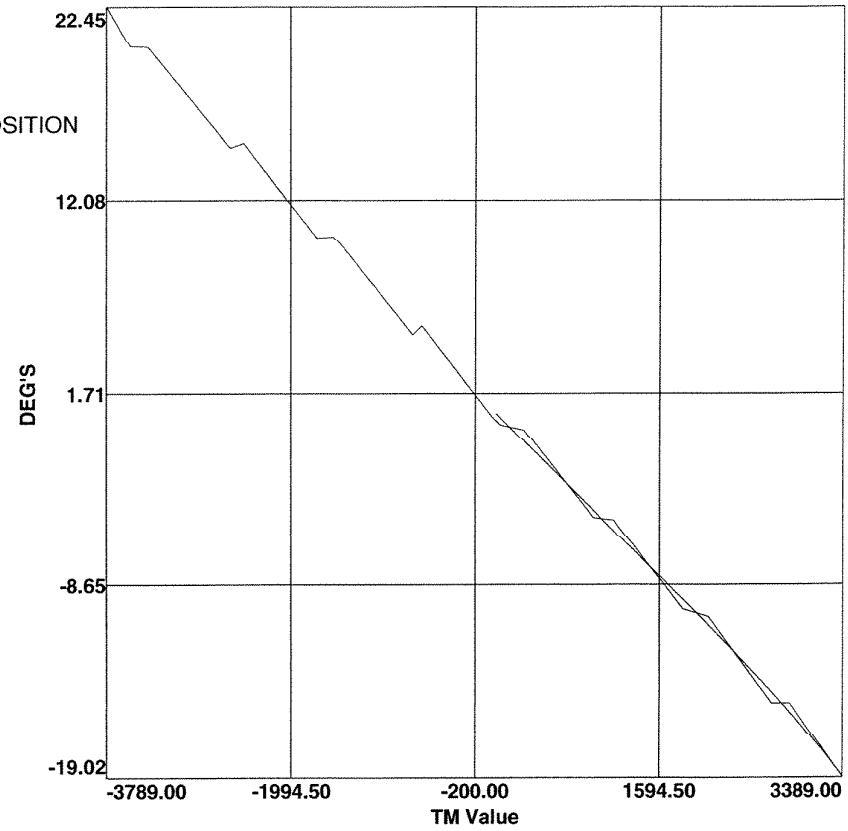
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error	#	TM Value	EU Value	Corrected	Error
1	-3789.0000	22.4500	22.2324	-0.2176	11	41.0000	0.0000	0.3824	0.3824
2	-3560.0000	20.2500	20.8446	0.5946	12	268.0000	-0.2800	-0.8989	-0.6189
3	-3387.0000	20.2300	19.8242	-0.4058	13	941.0000	-5.0500	-4.6501	0.3999
4	-2589.0000	14.8300	15.2854	0.4554	14	1143.0000	5.1700	5.7628	-0.5928
5	-2459.0000	15.0800	14.5571	-0.5229	15	1819.0000	-10.0000	-9.4736	0.5264
6	-1742.0000	10.0400	10.5304	0.4904	16	2063.0000	-10.3800	-10.8264	-0.4464
7	-1582.0000	10.1000	9.6258	-0.4742	17	2686.0000	-15.0000	-14.4142	0.5858
8	-815.0000	4.8200	5.2590	0.4390	18	2862.0000	-15.0000	-15.4885	-0.4885
9	-726.0000	5.3000	4.7505	-0.5495	19	3389.0000	-19.0200	-18.9812	0.0388
10	-44.0000	0.4600	0.8640	0.4040					

EU = (6.14561542E-001) + (-5.66548031E-003)X + (6.22239093E-008)X^2 + (2.23094758E-011)X^3 + (-6.83674494E-015)X^4 + (-2.40822528E-018)X^5

Correlation Coefficient: 0.99928725 **LSBF Order:** 5

RMS: 0.47406261

1 Count: 0.60889612 **3389 Counts:** -18.98117537

Calibration Data Sheet

Date: 11/27/2002 Time: 07:28:27
TMATS File: c:\my documents\a300\report\a300_pcm_export112602.tma

Parameter Name: CCP

Description: CONTROL COLUMN POSITION

Units: DEG'S

Transducer

Type:

Model:

S/N:

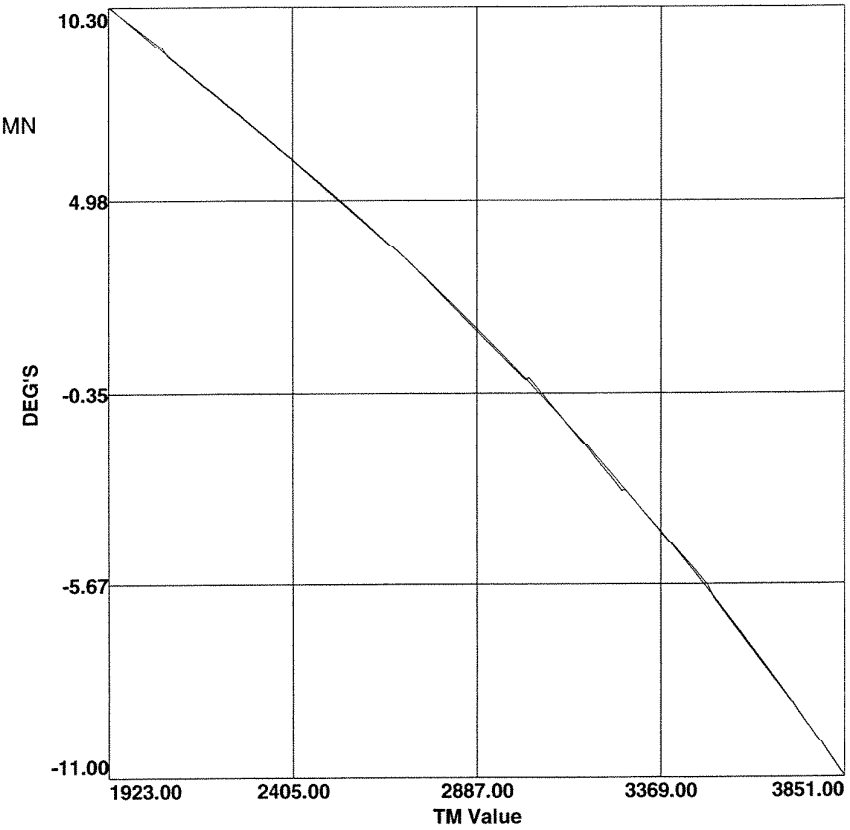
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error
1	1923.0000	10.3000	10.3253	0.0253
2	2061.0000	9.1600	9.0792	-0.0808
3	2078.0000	8.9000	8.9300	0.0300
4	2389.0000	6.2000	6.2238	0.0238
5	2422.0000	5.9000	5.9299	0.0299
6	2719.0000	3.1500	3.1338	-0.0162
7	2724.0000	3.0800	3.0839	0.0039
8	3011.0000	0.0000	0.0474	0.0474
9	3015.0000	0.0100	0.0026	-0.0074
10	3020.0000	0.0800	-0.0535	-0.1335*
11	3267.0000	-3.1000	-2.9610	0.1390*
12	3274.0000	-3.0500	-3.0472	0.0028
13	3491.0000	-5.7200	-5.8320	-0.1120*
14	3505.0000	-6.0600	-6.0192	0.0408
15	3708.0000	-8.8700	-8.8495	0.0205
16	3715.0000	-8.9300	-8.9513	-0.0213
17	3851.0000	-11.0000	-10.9921	0.0079

EU = (1.02804563E+002) + (-1.42367297E-001)X + (9.16856582E-005)X^2 + (-3.05541707E-008)X^3 + (4.97643169E-012)X^4 + (-3.24410109E-016)X^5

Correlation Coefficient: 0.99995586 **LSBF Order:** 5

RMS: 0.06155506

1 Count: 102.66228726 **3851 Counts:** -10.99211947

* = Items marked with asterisks are more than 0.5% (of full scale) away from the calculated line.

Calibration Data Sheet

Date: 09/27/2002 Time: 13:17:09
TMATS File: c:\my documents\a300\a300export.tma

Parameter Name: CWF

Description: CONTROL WHEEL FORCE

Units: LBS

Transducer

Type: AIRBUS WHEEL

Model: CIRCUIT 2

S/N:

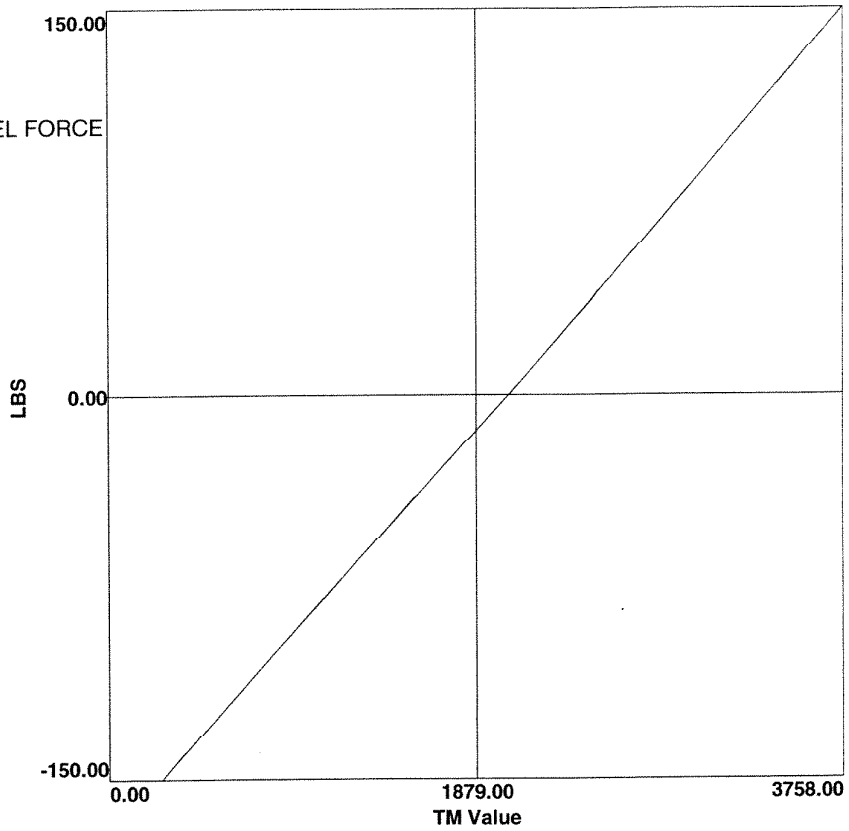
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error	#	TM Value	EU Value	Corrected	Error
1	268.0000	-150.0000	-150.0494	-0.0494	12	2049.0000	0.0000	0.2805	0.2805
2	382.0000	-140.0000	-140.1258	-0.1258	13	2507.0000	40.0000	39.8251	-0.1749
3	385.0000	-140.0000	-139.8664	0.1336	14	2509.0000	40.0000	39.9993	-0.0007
4	617.0000	-120.0000	-120.0280	-0.0280	15	2963.0000	80.0000	79.8190	-0.1810
5	619.0000	-120.0000	-119.8585	0.1415	16	2965.0000	80.0000	79.9953	-0.0047
6	1092.0000	-80.0000	-80.2161	-0.2161	17	3418.0000	120.0000	119.9893	-0.0107
7	1097.0000	-80.0000	-79.7994	0.2006	18	3420.0000	120.0000	120.1658	0.1658
8	1569.0000	-40.0000	-40.3740	-0.3740	19	3645.0000	140.0000	139.9686	-0.0314
9	1574.0000	-40.0000	-39.9542	0.0458	20	3647.0000	140.0000	140.1441	0.1441
10	2046.0000	0.0000	0.0239	0.0239	21	3758.0000	150.0000	149.8660	-0.1340
11	2048.0000	0.0000	0.1950	0.1950					

EU = (-1.74012641E+002) + (9.14118655E-002)X + (-8.38930399E-006)X^2 + (3.65739905E-009)X^3 + (-5.81337227E-013)X^4 + (2.75770230E-017)X^5

Correlation Coefficient: 0.99999875 **LSBF Order:** 5

RMS: 0.15942902

1 Count: -173.92123752 **3758 Counts:** 149.86603086

Calibration Data Sheet

Date: 11/27/2002 Time: 08:36:48

TMATS File: c:\my documents\a300\report\a300_pcm_export112602.tma

Parameter Name: CWP

Description: CONTROL WHEEL POSITION

Units: DEG'S

Transducer

Type:

Model:

S/N:

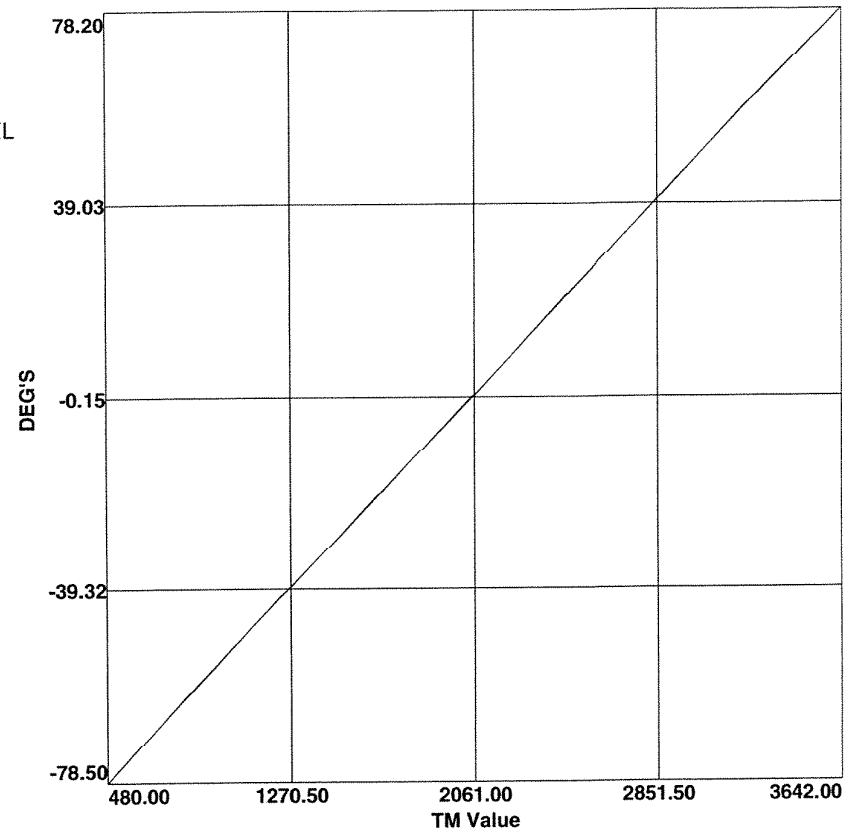
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error
1	480.0000	-78.5000	-78.4871	0.0129
2	837.0000	-60.0000	-60.2695	-0.2695
3	849.0000	-59.9000	-59.6718	0.2282
4	1240.0000	-40.3000	-40.3997	-0.0997
5	1254.0000	-39.9000	-39.7126	0.1874
6	1645.0000	-20.2000	-20.4610	-0.2610
7	1666.0000	-19.6000	-19.4214	0.1786
8	2053.0000	0.1200	-0.1431	-0.2631
9	2059.0000	0.0000	0.1573	0.1573
10	2059.0000	0.0100	0.1573	0.1473
11	2460.0000	20.5000	20.2758	-0.2242
12	2464.0000	20.3000	20.4764	0.1764
13	2861.0000	40.4000	40.2936	-0.1064
14	2871.0000	40.6000	40.7891	0.1891
15	3229.0000	58.6000	58.3623	-0.2377
16	3281.0000	60.7000	60.8850	0.1850
17	3642.0000	78.2000	78.1995	-0.0005

EU = (-1.05675258E+002) + (6.19197583E-002)X + (-1.40208134E-005)X^2 + (7.02962413E-009)X^3 + (-1.57512792E-012)X^4 + (1.27776106E-016)X^5

Correlation Coefficient: 0.99999128 **LSBF Order:** 5

RMS: 0.18863415

1 Count: -105.61335185 **3642 Counts:** 78.19951706

Calibration Data Sheet

Date: 09/27/2002 Time: 13:33:22
TMATS File: c:\my documents\a300\a300export.tma

Parameter Name: ELEVPOSANLG

Description: ELEVATOR POSITION ANALOG

Units: DEG'S

Transducer

Type: SYNCHRO

Model:

S/N:

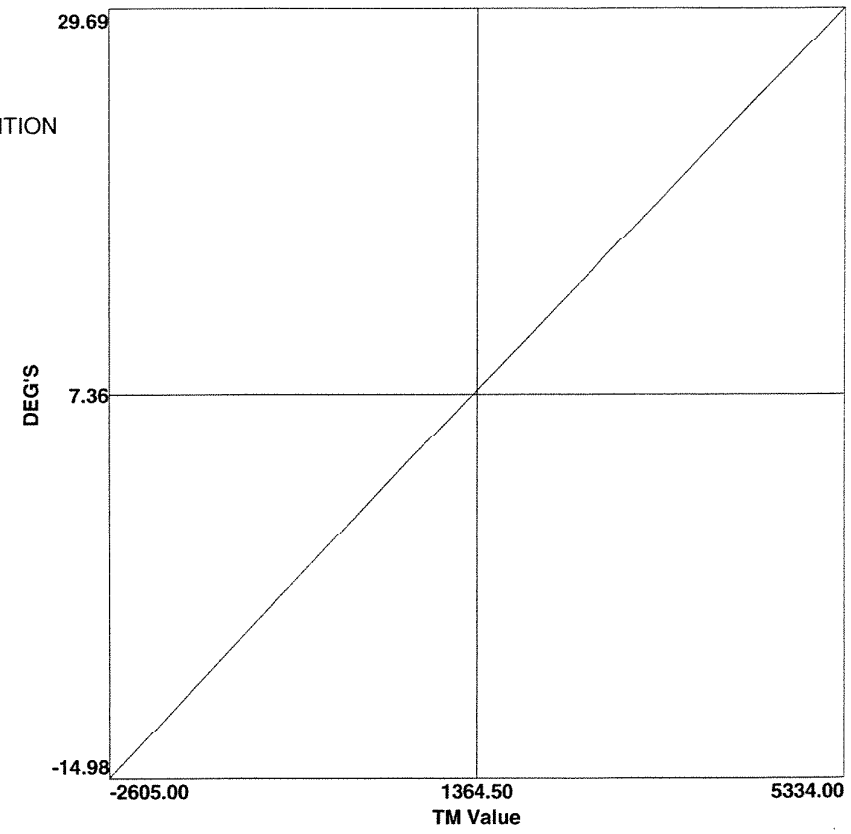
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error	#	TM Value	EU Value	Corrected	Error
1	-2605.0000	-14.9800	-14.9711	0.0089	11	969.0000	5.3700	5.3506	-0.0194
2	-2602.0000	-14.9500	-14.9540	-0.0040	12	1803.0000	10.0100	10.0262	0.0162
3	-1739.0000	-10.0200	-10.0242	-0.0042	13	1807.0000	10.0400	10.0486	0.0086
4	-1734.0000	-9.9800	-9.9955	-0.0155	14	2694.0000	15.0200	15.0094	-0.0106
5	-861.0000	-5.0200	-5.0052	0.0148	15	2765.0000	15.4200	15.4063	-0.0137
6	-818.0000	-4.7700	-4.7600	0.0100	16	3513.0000	19.5700	19.5869	0.0169
7	-149.0000	-0.9500	-0.9568	-0.0068	17	3625.0000	20.2000	20.2126	0.0126
8	20.0000	0.0000	0.0004	0.0004	18	4460.0000	24.8800	24.8681	-0.0119
9	32.0000	0.0600	0.0683	0.0083	19	4488.0000	25.0300	25.0237	-0.0063
10	946.0000	5.2300	5.2214	-0.0086	20	5334.0000	29.6900	29.6945	0.0045

EU = (-1.12809836E-001) + (5.66076457E-003)X + (-2.51004870E-008)X^2 + (9.06705275E-013)X^3 + (1.16212873E-015)X^4 + (-1.74032060E-019)X^5

Correlation Coefficient: 0.99999965 **LSBF Order:** 5

RMS: 0.01123310

1 Count: -0.10714910 **5334 Counts:** 29.69445540

Calibration Data Sheet

Date: 09/27/2002 Time: 14:35:49
TMATS File: c:\my documents\a300\a300export.tma

Parameter Name: RDRPOSANLG

Description: RUDDER POSITION ANALOG

Units: DEG'S

Transducer

Type: SYNCHRO

Model:

S/N:

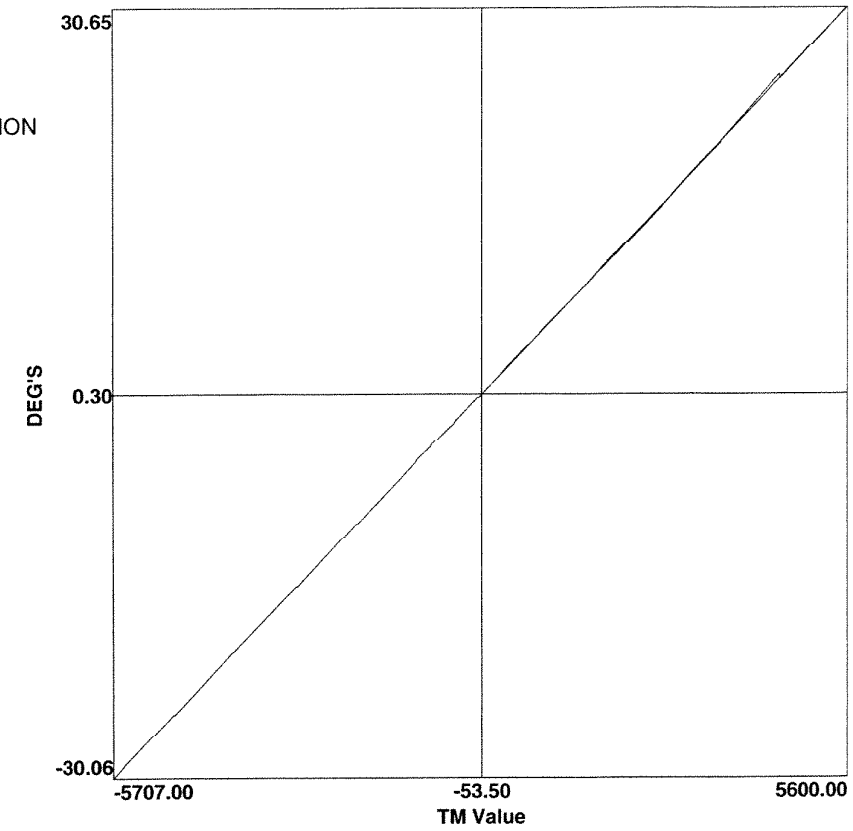
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error	#	TM Value	EU Value	Corrected	Error
1	-5707.0000	-30.0600	-30.0011	0.0589	20	-107.0000	-0.0100	-0.0556	-0.0456
2	-5565.0000	-29.2900	-29.2501	0.0399	21	-90.0000	0.0100	0.0356	0.0256
3	-5514.0000	-28.9300	-28.9802	-0.0502	22	242.0000	1.8200	1.8157	-0.0043
4	-4778.0000	-24.9900	-25.0705	0.0805	23	310.0000	2.2700	2.1804	-0.0896
5	-4773.0000	-25.0500	-25.0439	0.0061	24	643.0000	4.0600	3.9664	-0.0936
6	-3874.0000	-20.1500	-20.2441	-0.0941	25	677.0000	4.1600	4.1488	-0.0112
7	-3857.0000	-20.1300	-20.1532	-0.0232	26	813.0000	4.8700	4.8784	0.0084
8	-2893.0000	-15.0100	-14.9911	0.0189	27	841.0000	5.1000	5.0286	-0.0714
9	-2891.0000	-15.0900	-14.9803	0.1097	28	1773.0000	9.9900	10.0326	0.0426
10	-1963.0000	-10.0300	-10.0058	0.0242	29	1798.0000	10.0200	10.1669	0.1469
11	-1944.0000	-10.0400	-9.9039	0.1361	30	2722.0000	15.0100	15.1381	0.1281
12	-1069.0000	-5.3000	-5.2129	0.0871	31	2735.0000	15.1800	15.2081	0.0281
13	-1025.0000	-4.9500	-4.9770	-0.0270	32	3631.0000	19.9400	20.0419	0.1019
14	-821.0000	-3.9400	-3.8834	0.0566	33	3638.0000	20.0800	20.0797	-0.0003
15	-807.0000	-3.7700	-3.8083	-0.0383	34	4539.0000	25.3100	24.9558	-0.3542
16	-470.0000	-2.0400	-2.0017	0.0383	35	4545.0000	24.9400	24.9883	0.0483
17	-453.0000	-1.8600	-1.9106	-0.0506	36	5286.0000	28.9600	29.0102	0.0502
18	-111.0000	0.0200	-0.0770	-0.0970	37	5307.0000	29.1300	29.1243	-0.0057
19	-109.0000	0.0200	-0.0663	-0.0863	38	5600.0000	30.6500	30.7174	0.0674

EU = (5.18103525E-001) + (5.36171319E-003)X + (1.19748502E-009)X^2 + (6.73856594E-013)X^3 + (8.67899909E-017)X^4 + (-1.22710060E-020)X^5

Correlation Coefficient: 0.99998619 **LSBF Order:** 5

RMS: 0.08878847

1 Count: 0.52346524 **5600 Counts:** 30.71736380

Calibration Data Sheet

Date: 09/27/2002 Time: 15:04:54
TMATS File: c:\my documents\a300\a300export.tma

Parameter Name: RPFLH

Description: L/H RUDDER PEDAL FORCE

Units: LBS

Transducer

Type: P

Model:

S/N:

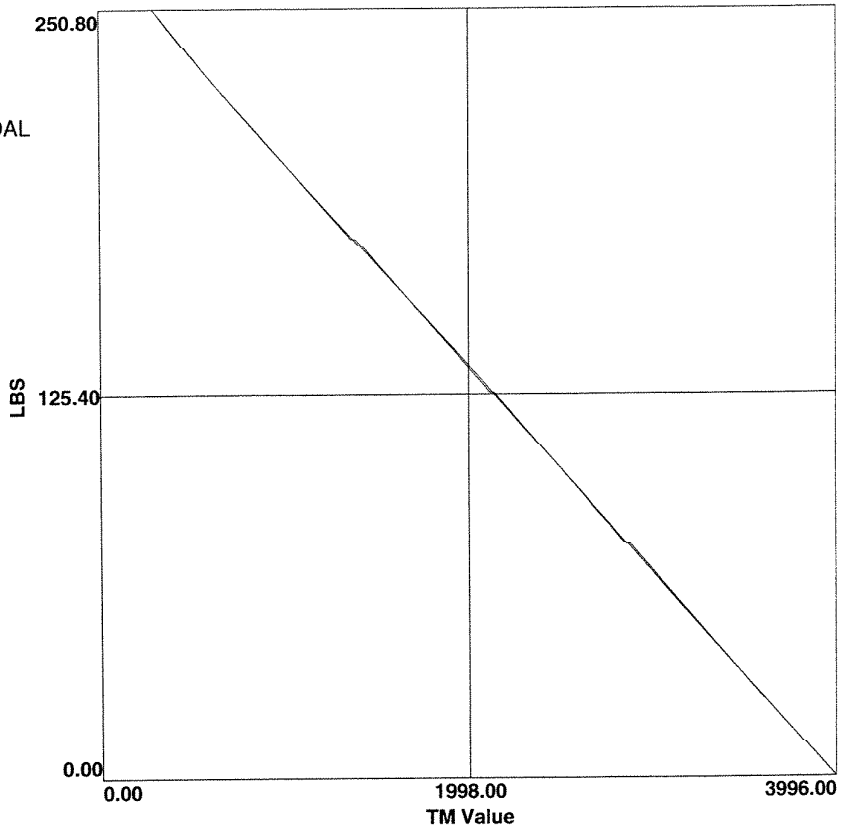
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error
1	291.0000	250.8000	250.7332	-0.0668
2	626.0000	225.8000	225.9511	0.1511
3	628.0000	225.8000	225.8105	0.0105
4	1366.0000	175.8000	176.4664	0.6664
5	1391.0000	175.8000	174.8268	-0.9732
6	2113.0000	125.8000	126.8273	1.0273
7	2138.0000	125.8000	125.1375	-0.6625
8	2854.0000	75.8000	76.3505	0.5505

#	TM Value	EU Value	Corrected	Error
9	2874.0000	75.8000	74.9876	-0.8124
10	3602.0000	25.8000	25.9802	0.1802
11	3605.0000	25.8000	25.7809	-0.0191
12	3980.0000	0.8000	0.9185	0.1185
13	3983.0000	0.8000	0.7192	-0.0808
14	3993.0000	0.0000	0.0548	0.0548
15	3996.0000	0.0000	-0.1446	-0.1446

EU = (2.75206271E+002) + (-9.05996831E-002)X + (2.56303418E-005)X^2 + (-1.20405143E-008)X^3 + (2.53264735E-012)X^4 + (-1.96355797E-016)X^5

Correlation Coefficient: 0.99998340 **LSBF Order:** 5

RMS: 0.51337259

1 Count: 275.11569676 **3996 Counts:** -0.14462511

Calibration Data Sheet

Date: 09/27/2002 Time: 15:13:01
TMATS File: c:\my documents\a300\a300export.tma

Parameter Name: RPFRH

Description: R/H RUDDER PEDAL FORCE

Units: LBS

Transducer

Type:

Model:

S/N:

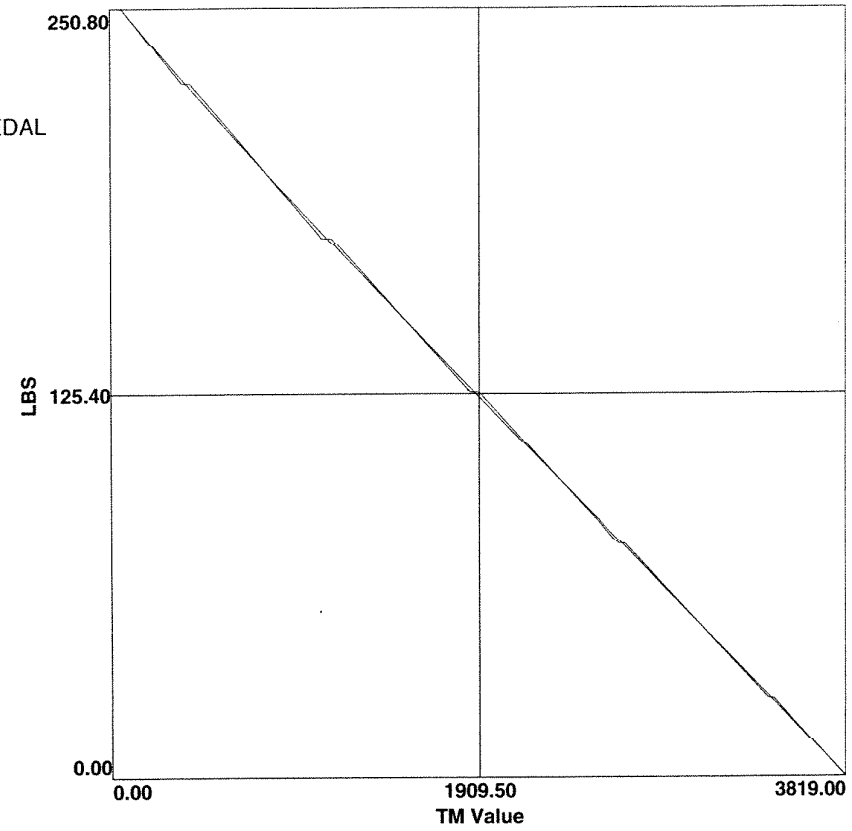
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error	#	TM Value	EU Value	Corrected	Error
1	56.0000	250.8000	250.7898	-0.0102	9	2666.0000	75.8000	74.8249	-0.9751
2	374.0000	225.8000	227.1459	1.3459	10	3410.0000	25.8000	26.6659	0.8659
3	414.0000	225.8000	224.2846	-1.5154	11	3438.0000	25.8000	24.8497	-0.9503
4	1099.0000	175.8000	177.4894	1.6894	12	3802.0000	0.8000	1.0292	0.2292
5	1147.0000	175.8000	174.3035	-1.4965	13	3809.0000	0.8000	0.5653	-0.2347
6	1863.0000	125.8000	127.2130	1.4130	14	3815.0000	0.0000	0.1675	0.1675
7	1909.0000	125.8000	124.2013	-1.5987	15	3819.0000	0.0000	-0.0978	-0.0978
8	2633.0000	75.8000	76.9679	1.1679					

EU = (2.55156549E+002) + (-7.86232368E-002)X + (1.18176266E-005)X^2 + (-5.38637632E-009)X^3 + (1.22755443E-012)X^4 + (-1.08883047E-016)X^5

Correlation Coefficient: 0.99992497 **LSBF Order:** 5

RMS: 1.09138956

1 Count: 255.07793744 **3819 Counts:** -0.09782862

Calibration Data Sheet

Date: 11/27/2002 Time: 08:50:34
TMATS File: c:\my documents\a300\report\a300_pcm_export112602.tma

Parameter Name: RPP

Description: RUDDER PEDAL POSITION

Units: DEG'S

Transducer

Type:

Model:

S/N:

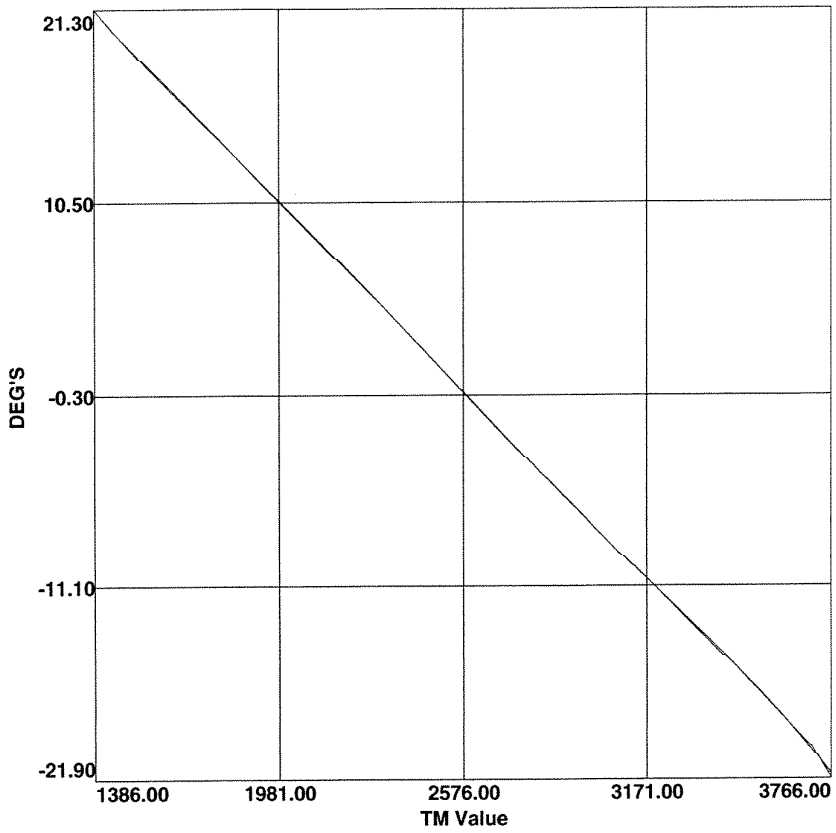
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error
1	1386.0000	21.3000	21.2848	-0.0152
2	1447.0000	20.0000	20.0379	0.0379
3	1448.0000	20.0000	20.0181	0.0181
4	1727.0000	15.0000	14.9365	-0.0635
5	1728.0000	15.0000	14.9192	-0.0808
6	2009.0000	10.0000	10.0843	0.0843
7	2010.0000	10.0000	10.0669	0.0669
8	2292.0000	5.0000	5.0385	0.0385
9	2294.0000	5.0000	5.0020	0.0020
10	2565.0000	0.0000	0.0106	0.0106
11	2569.0000	0.0000	-0.0633	-0.0633

#	TM Value	EU Value	Corrected	Error
12	2570.0000	0.0000	-0.0817	-0.0817
13	2839.0000	-5.0000	-4.9857	0.0143
14	2841.0000	-5.0000	-5.0214	-0.0214
15	3124.0000	-10.0000	-9.9410	0.0590
16	3129.0000	-10.0000	-10.0257	-0.0257
17	3415.0000	-15.0000	-14.8513	0.1487
18	3425.0000	-15.0000	-15.0236	-0.0236
19	3697.0000	-20.0000	-20.1339	-0.1339
20	3701.0000	-20.0000	-20.2186	-0.2186
21	3766.0000	-21.9000	-21.6529	0.2471

EU = (1.39700528E+002) + (-2.25968640E-001)X + (1.79156454E-004)X^2 + (-7.48757703E-008)X^3 + (1.52102851E-011)X^4 + (-1.20332864E-015)X^5

Correlation Coefficient: 0.99997576 **LSBF Order:** 5

RMS: 0.09529148

1 Count: 139.47473838 **3766 Counts:** -21.65285540

Calibration Data Sheet

Date: 11/27/2002 Time: 09:46:09
TMATS File: c:\my documents\a300\report\a300_pcm_export112602.tma

Parameter Name: YAAC YDAC

Description: YAW AUTOPILOT ACTUATOR CMD (TEST BOX)

Units: M_AMP

Transducer

Type:

Model:

S/N:

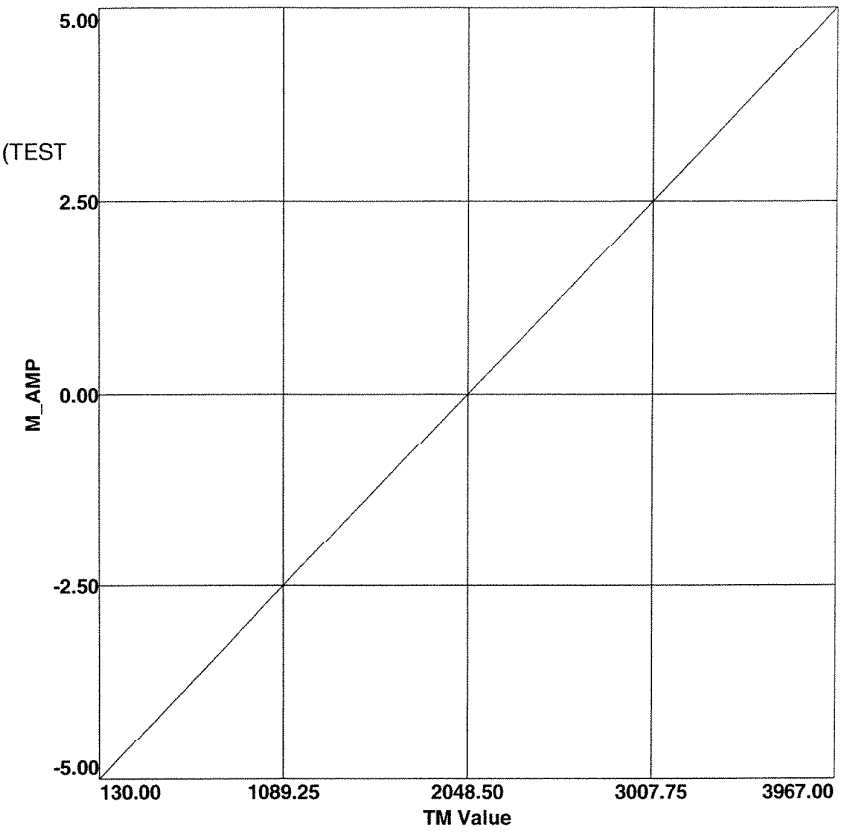
Date:

Revision:

Orientation:

POC:

Comments:



#	TM Value	EU Value	Corrected	Error	#	TM Value	EU Value	Corrected	Error
1	130.0000	-5.0000	-5.0001	-0.0001	12	2049.0000	0.0000	0.0028	0.0028
2	514.0000	-4.0000	-4.0002	-0.0002	13	2432.0000	1.0000	1.0000	0.0000
3	514.0000	-4.0000	-4.0002	-0.0002	14	2432.0000	1.0000	1.0000	0.0000
4	898.0000	-3.0000	-2.9986	0.0014	15	2816.0000	2.0000	1.9995	-0.0005
5	898.0000	-3.0000	-2.9986	0.0014	16	2816.0000	2.0000	1.9995	-0.0005
6	1280.0000	-2.0000	-2.0018	-0.0018	17	3199.0000	3.0000	2.9965	-0.0035
7	1280.0000	-2.0000	-2.0018	-0.0018	18	3201.0000	3.0000	3.0018	0.0018
8	1664.0000	-1.0000	-1.0004	-0.0004	19	3584.0000	4.0000	3.9998	-0.0002
9	1664.0000	-1.0000	-1.0004	-0.0004	20	3585.0000	4.0000	4.0024	0.0024
10	2048.0000	0.0000	0.0002	0.0002	21	3967.0000	5.0000	4.9994	-0.0006
11	2048.0000	0.0000	0.0002	0.0002					

EU = (-5.33778765E+000) + (2.59561634E-003)X + (1.69620088E-008)X^2 + (-8.84593133E-012)X^3 + (1.77164442E-015)X^4 + (-1.15124741E-019)X^5

Correlation Coefficient: 0.99999988 **LSBF Order:** 5

RMS: 0.00139226

1 Count: -5.33519201 **3967 Counts:** 4.99936597

APPENDIX V

WIRING DIAGRAM INDEX

MASTER ID-1 (28V INPUT)
BLANK (SLOT 12)
BLANK (SLOT 11)
BLANK (SLOT 10)
BLS-148 (SLOT 9)
SCD-108S (SLOT 8)
SRD-103 (SLOT 7)
SRD-103 (SLOT 6)
SRD-103 (SLOT5)
BIM-429-4 (SLOT 4)
SCD-108S (SLOT 3)
SCD-108S (SLOT 2)
MCI-105 (SLOT 1)
RCI (OVERHEAD)

CDAU.dwg

TEST ARTICLE PREP
Naval Air Warfare Center
A300, MSN 701
CDAU CONFIGURATION
29 AUG, 2002 M.W. HEPP SHEET 1 OF 1

MASTER
RCI CODE PLUG
PR5
DAMA15P W/ DA24658

1	RID1
2	RID2
3	RID3
4	RID4
5	RID5
6	RID6
7	DGND
8	RSVD
9	IRIG-AC IN
10	IRIG-AC RTN
11	IRIG-DC IN+
12	IRIG-DC IN-

3 FT
22AWG

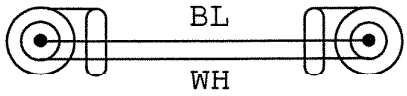
REMOTE
RCI CODE PLUG
PR5
DAMA15P W/ DA24658

1	RID1
2	RID2
3	RID3
4	RID4
5	RID5
6	RID6
7	DGND
9	IRIG-AC IN
10	IRIG-AC RTN
11	IRIG-DC IN+
12	IRIG-DC IN-

3 FT
22AWG

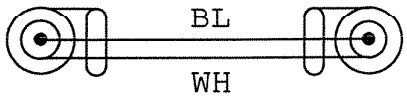
MASTER
PR1
PL155FL(4LUG)

REMOTE
PR1
PL155FL(4LUG)



MASTER
PR2
PL155(3LUG)

REMOTE
PR2
PL155(3LUG)



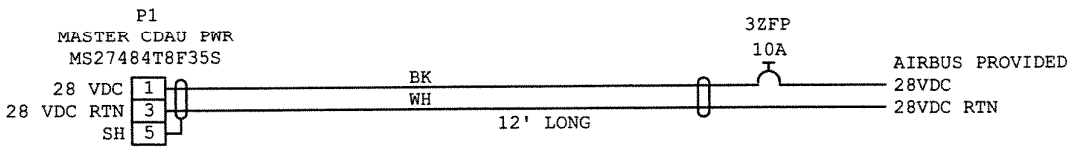
78 OHM
BUS WIRE

TEST ARTICLE PREP
Naval Air Warfare Center

A300
RCI-105
MASTER & REMOTE

05 AUG, 2002 M. W. HEPP SHEET 1 OF 1

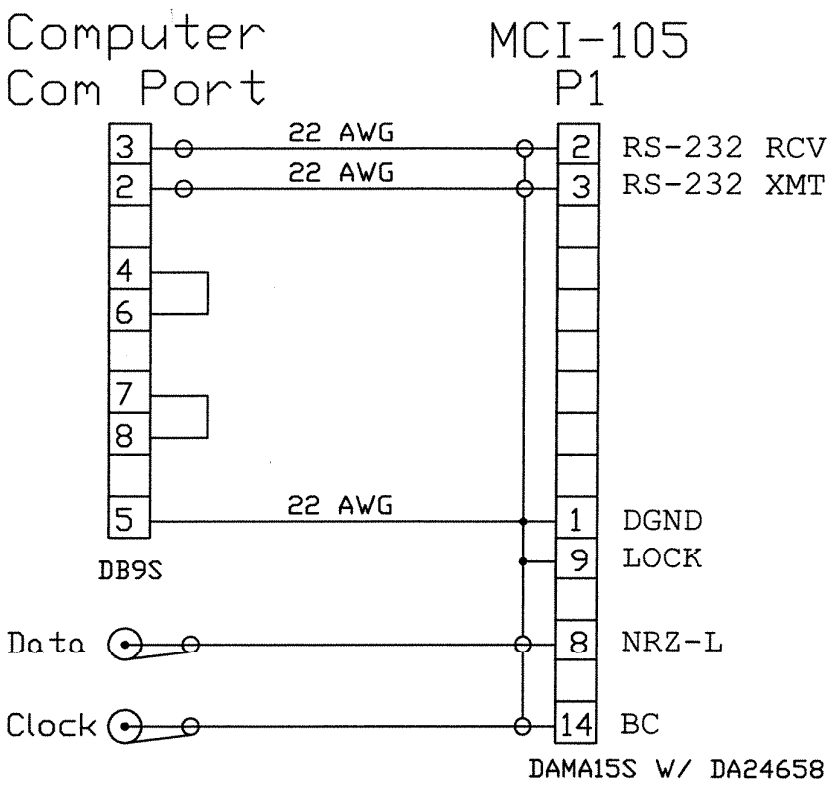
RCI105.dwg



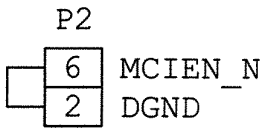
WIRE TO BE 22AWG

TEST ARTICLE PREP Naval Air Warfare Center	
A300, MSN 701 MASTER/REMOTE CDAU POWER	
29 AUG, 2002	M.W. HEPP SHEET 1 OF 1

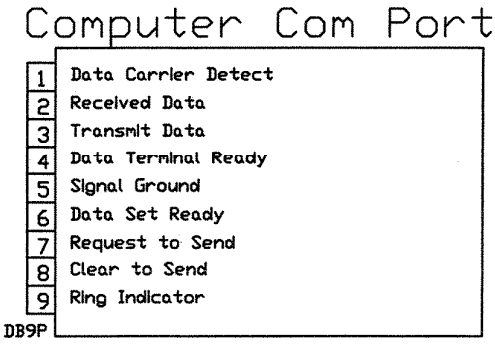
CDAUPOWER.dwg



10ft Long

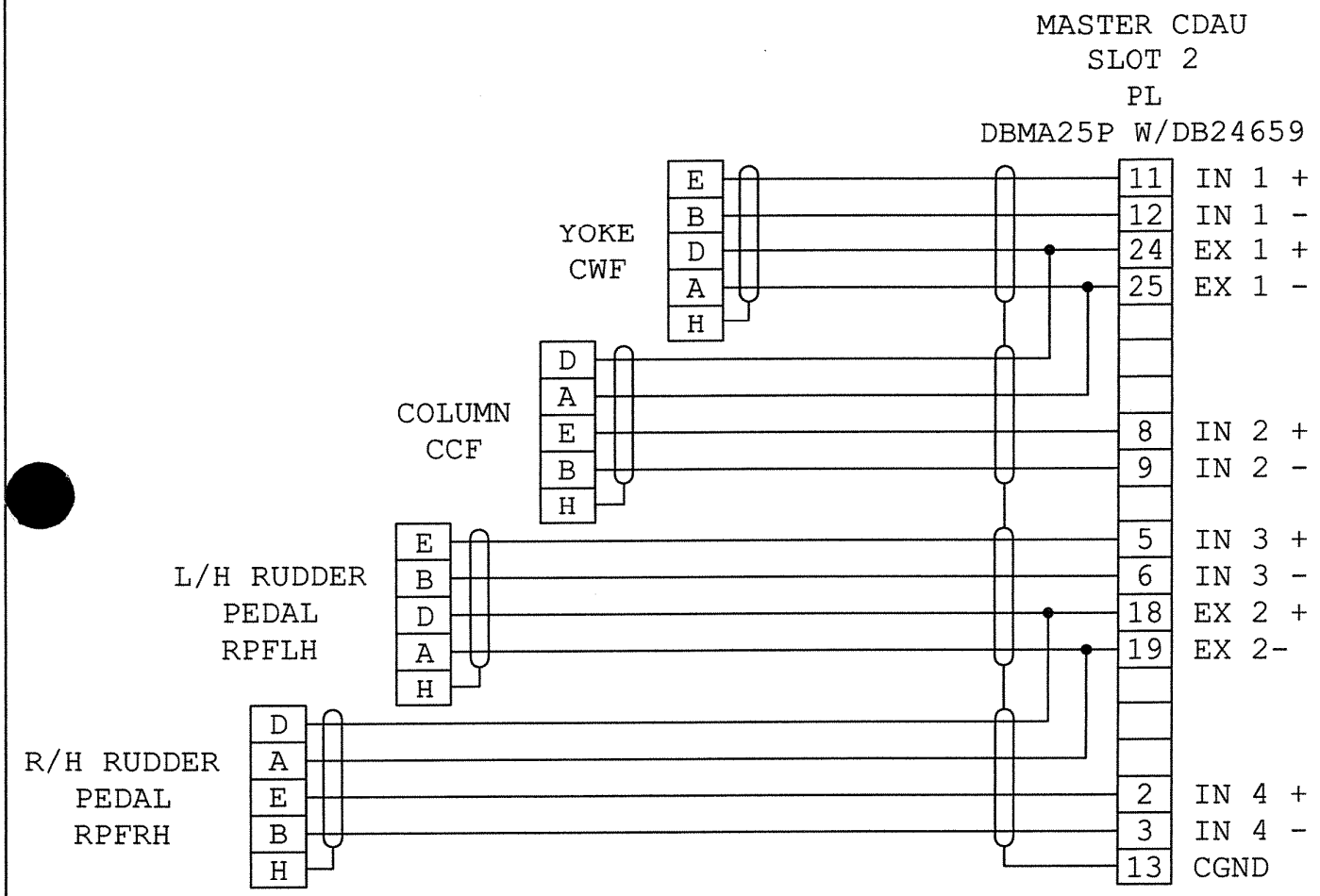


DCMA37P W/ DC24660



TEST ARTICLE PREP Naval Air Warfare Center	
A300 MCI-105& PROGRAMMING CABLE	
05 AUG, 2002	M. W. HEPP SHEET 1 OF 1

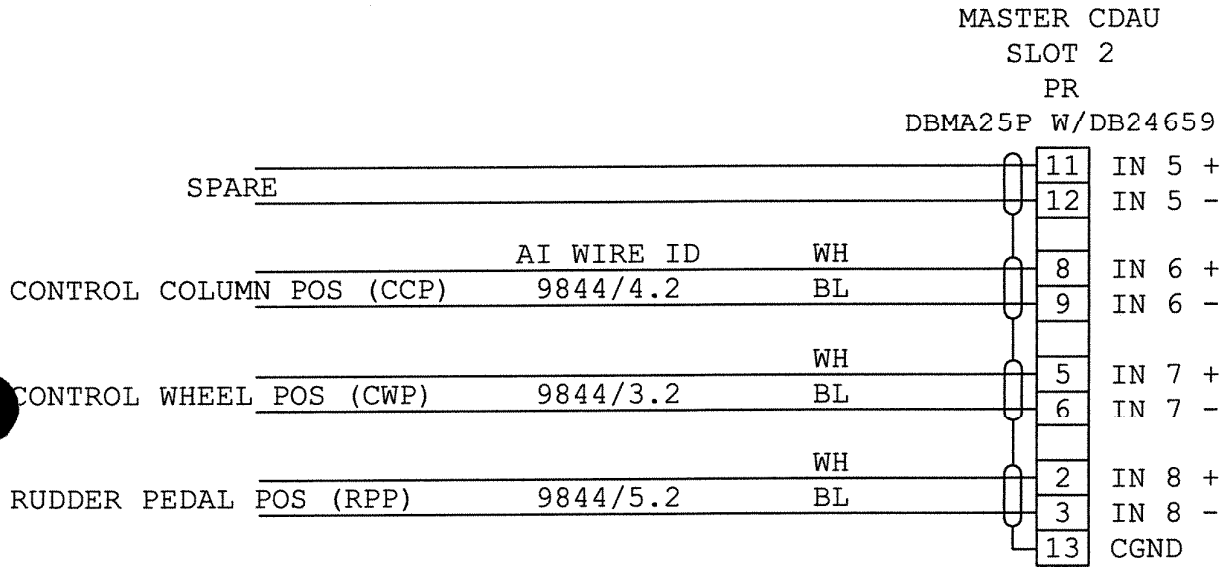
MCIPRG.dwg



BUNDLE SHOULD BE 40 FEET LONG
22 AWG TW/SH 4 CONDUCTOR

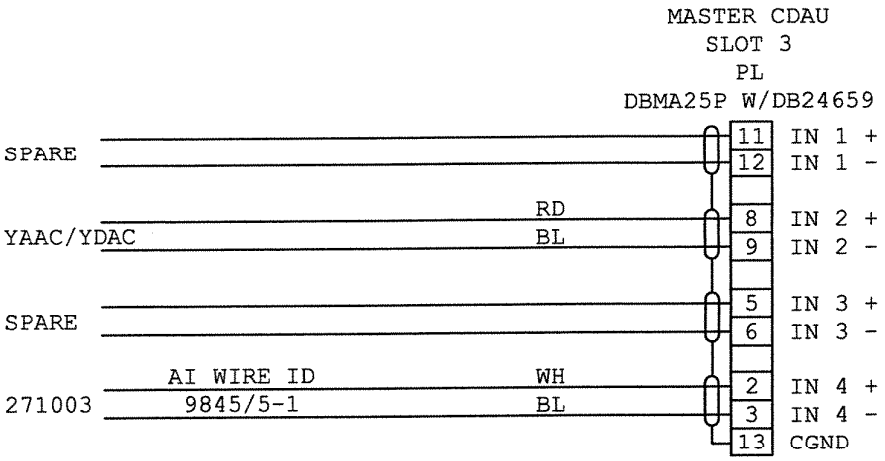
TEST ARTICLE PREP Naval Air Warfare Center	
A300 SCD-108S FLT CNTRL FORCES	
05 AUG, 2002	M. W. HEPP SHEET 1 OF 1

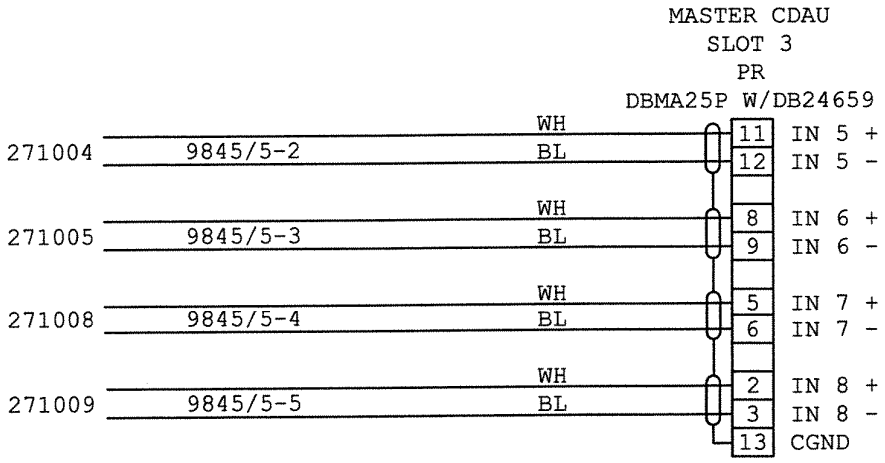
TAP FLT CONTROL FORCES.dwg



TEST ARTICLE PREP Naval Air Warfare Center		
A300, MSN 701 FLT CONTROL POSITIONS		
29 AUG, 2002	M.W. HEPP	SHEET 1 OF 1

FLT CNTRL POS.dwg





TEST ARTICLE PREP Naval Air Warfare Center		
A300, MSN 701 AIRBUS FORCES & TEST BOXES		
29 AUG, 2002	M.W. HEPP	SHEET 1 OF 1

AIRBUS FORCES.dwg

MASTER CDAU
SLOT 4
PL
DBMA25P W/ DB24659

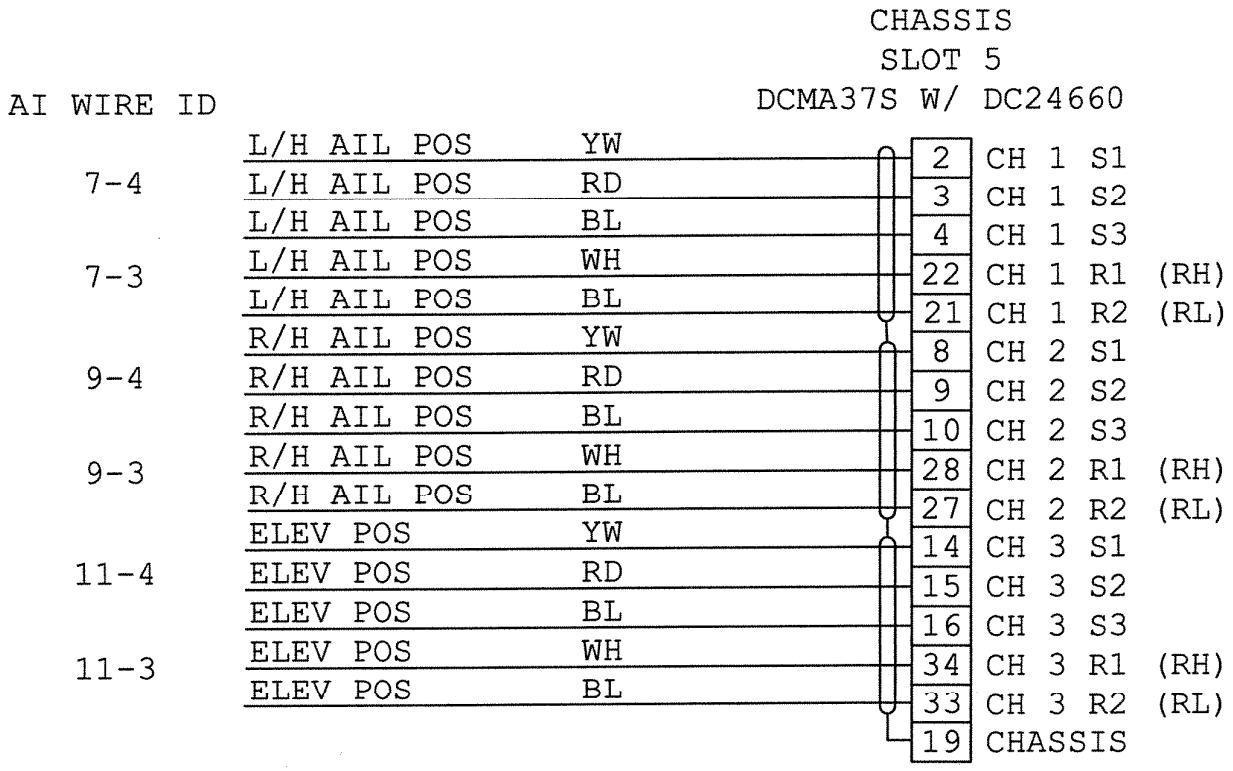
AI WIRE ID				
SHIP'S CLK		WH	12	CH 1 RCV +
SHIP'S CLK	15-5	BL	24	CH 1 RCV -
SHIP'S CLK			25	CH 1 DGND
EFCIU		WH	10	CH 2 RCV +
EFCIU	16-2	BL	22	CH 2 RCV -
EFCIU			23	CH 2 DGND
INPUT TO ADC		WH	3	CH 3 RCV +
INPUT TO ADC	15-7	BL	16	CH 3 RCV -
INPUT TO ADC			17	CH 3 DGND
			1	CH 4 RCV +
			14	CH 4 RVC -
			15	CH 4 DGND
			13	CHASSIS

MASTER CDAU
SLOT 4
PR
DBMA25P W/ DB24659

AI WIRE ID				
SDAC		WH	12	CH 5 RCV +
SDAC	15-6	BL	24	CH 5 RCV -
SDAC			25	CH 5 DGND
FAC IN		WH	10	CH 6 RCV +
MODIFIED YAW RATE FAC IN	26-2	BL	22	CH 6 RCV -
FAC IN			23	CH 6 DGND
FAC OUT		WH	3	CH 7 RCV +
YAW RATE YAW STAB CMD 1 FAC OUT	27-2	BL	16	CH 7 RCV -
FAC OUT			17	CH 7 DGND
			1	CH 8 RCV +
			14	CH 8 RVC -
			15	CH 8 DGND
			13	CHASSIS

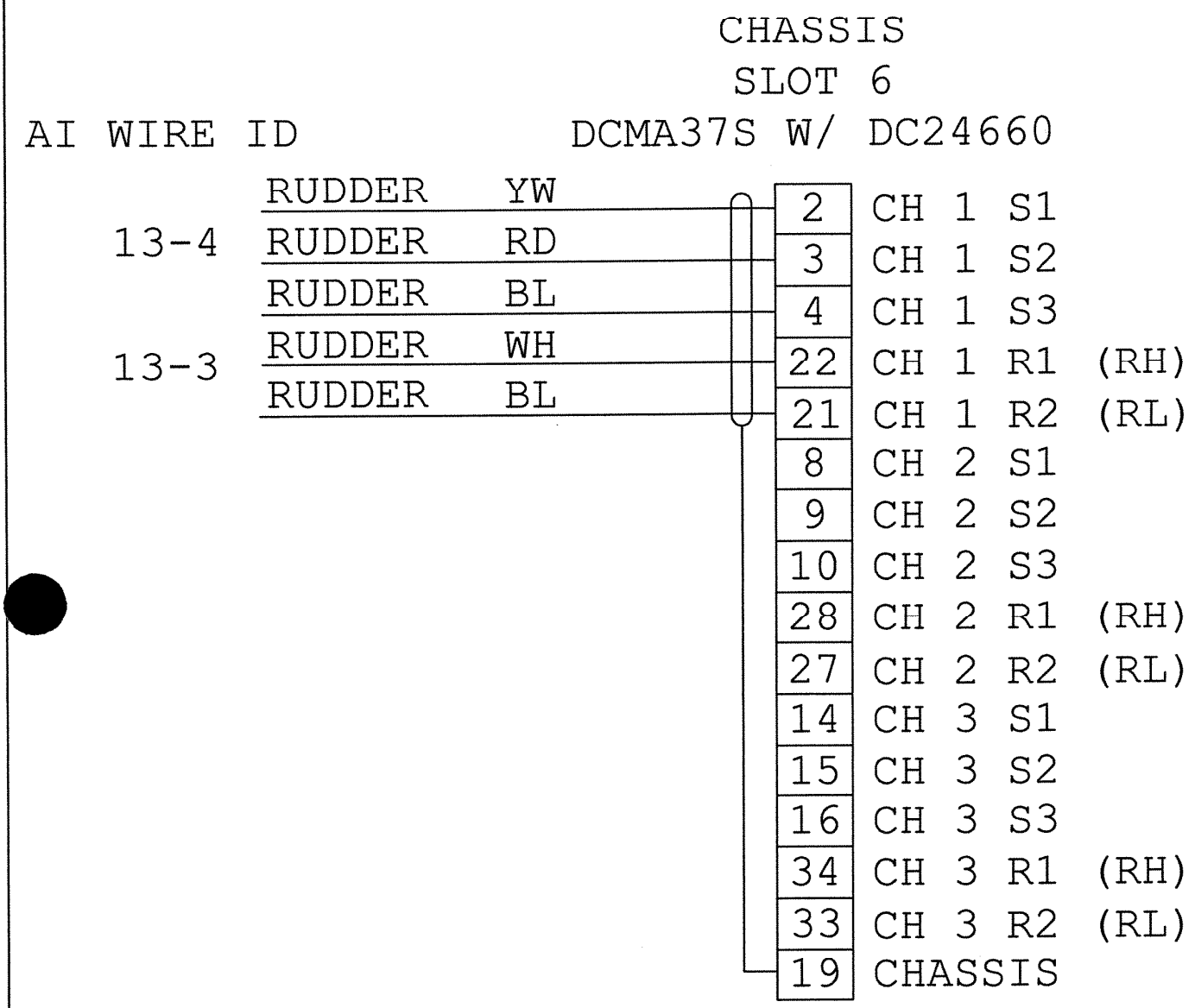
ARINC 429 BUS DATA

TEST ARTICLE PREP
Naval Air Warfare Center
A300, MSN 701
ARINC 429
BUS DATA
29 AUG, 2002 M.W. HEPP SHEET 1 OF 1



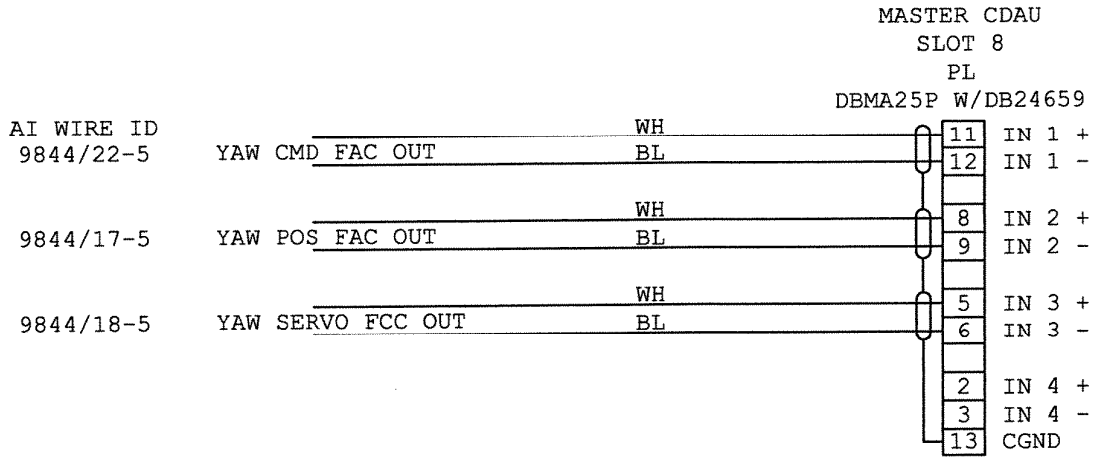
TEST ARTICLE PREP	
Naval Air Warfare Center	
A300, MSN 701	
SRD-103	
AILERON & ELEVATOR POS	
05 AUG, 2002	M.W. HEPP SHEET 1 OF 1

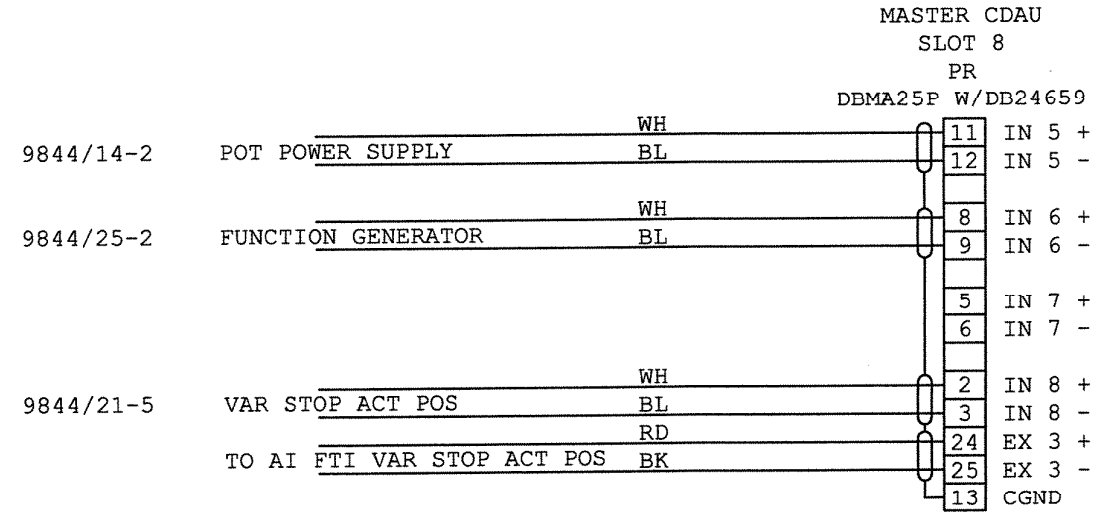
AILERON & ELEVATOR POS.DWG



TEST ARTICLE PREP Naval Air Warfare Center		
A300 SRD-103 RUDDER POSITION		
05 AUG, 2002	M.W. HEPP	SHEET 1 OF 1

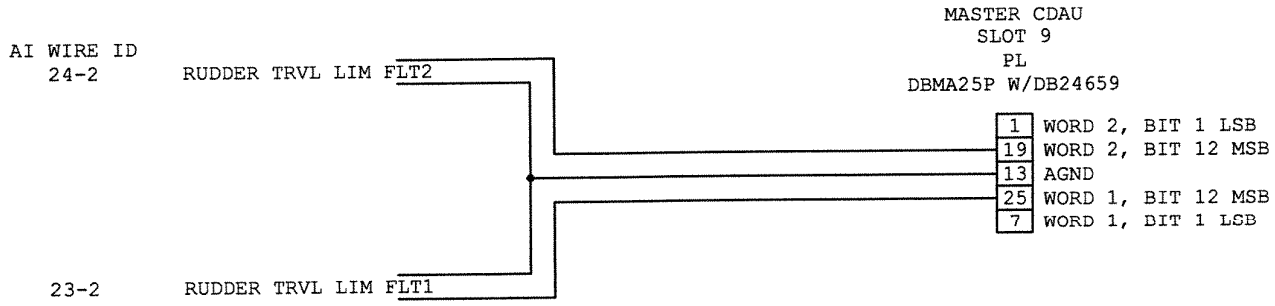
RUDDER POS.dwg





TEST ARTICLE PREP	
Naval Air Warfare Center	
A300, MSN 701	
AIRBUS TEST SIGNALS	
29 AUG, 2002	M.W. HEPP SHEET 1 OF 1

AIRBUS TEST SIGS.dwg

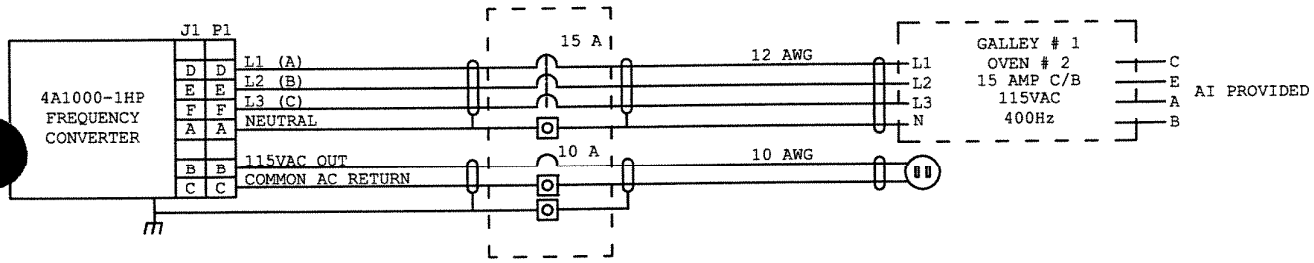


TEST ARTICLE PREP
Naval Air Warfare Center

A300, MSN 701
RUDDER TRAVEL LIMITER DISCRETES

29 AUG, 2002 M.W. HEPP SHEET 1 OF 1

DISCRETES.dwg



146=A1
147=B1
148=C1
149=NEUTRAL(TERM STRIP)

d=A2
e=B2
a=Term strip

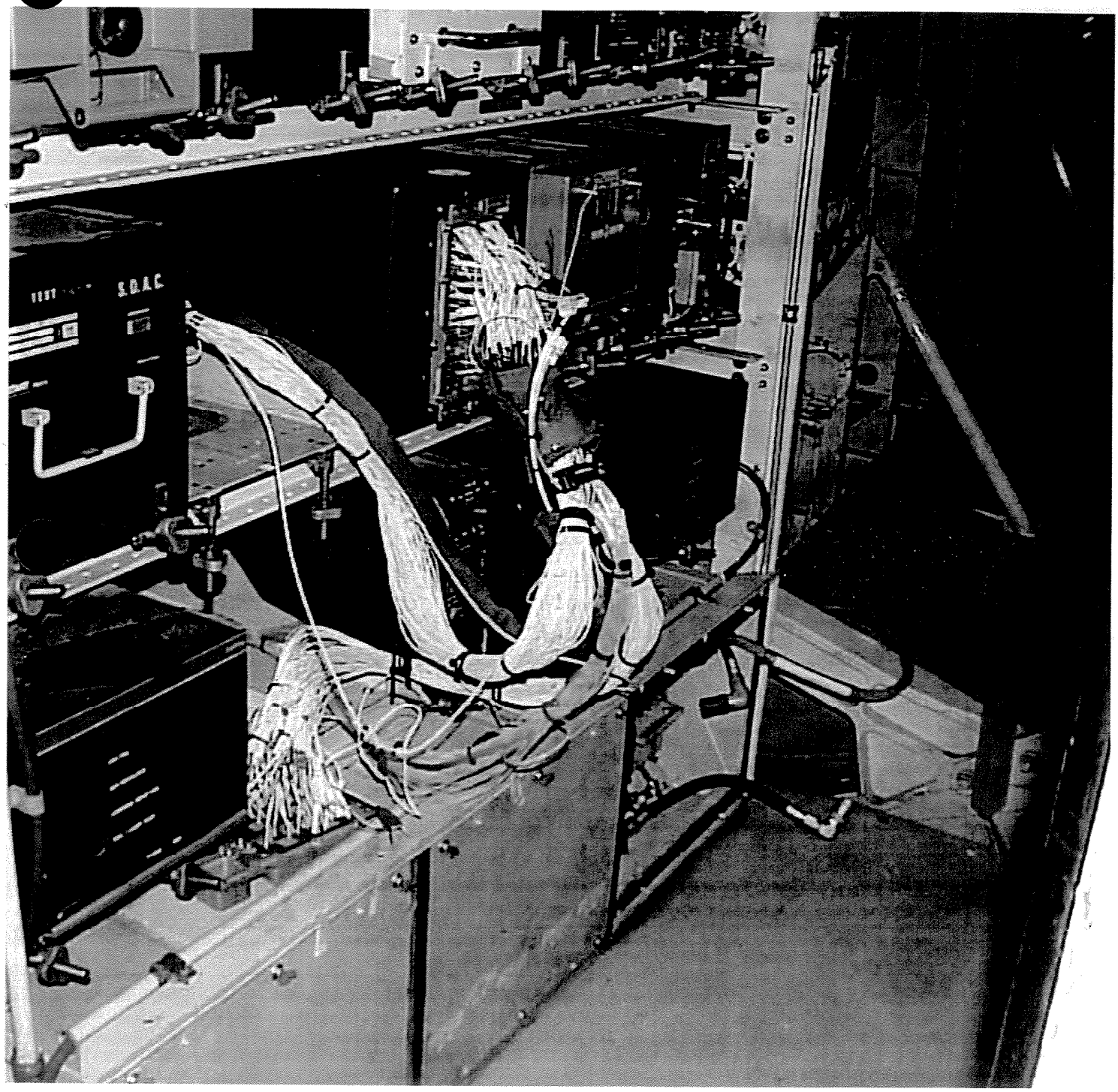
TEST ARTICLE PREP Naval Air Warfare Center		
A300, MSN 701 FREQUENCY CONVERTER		
29 AUG, 2002	M.W. HEPP	SHEET 1 OF 1

FRECON.dwg

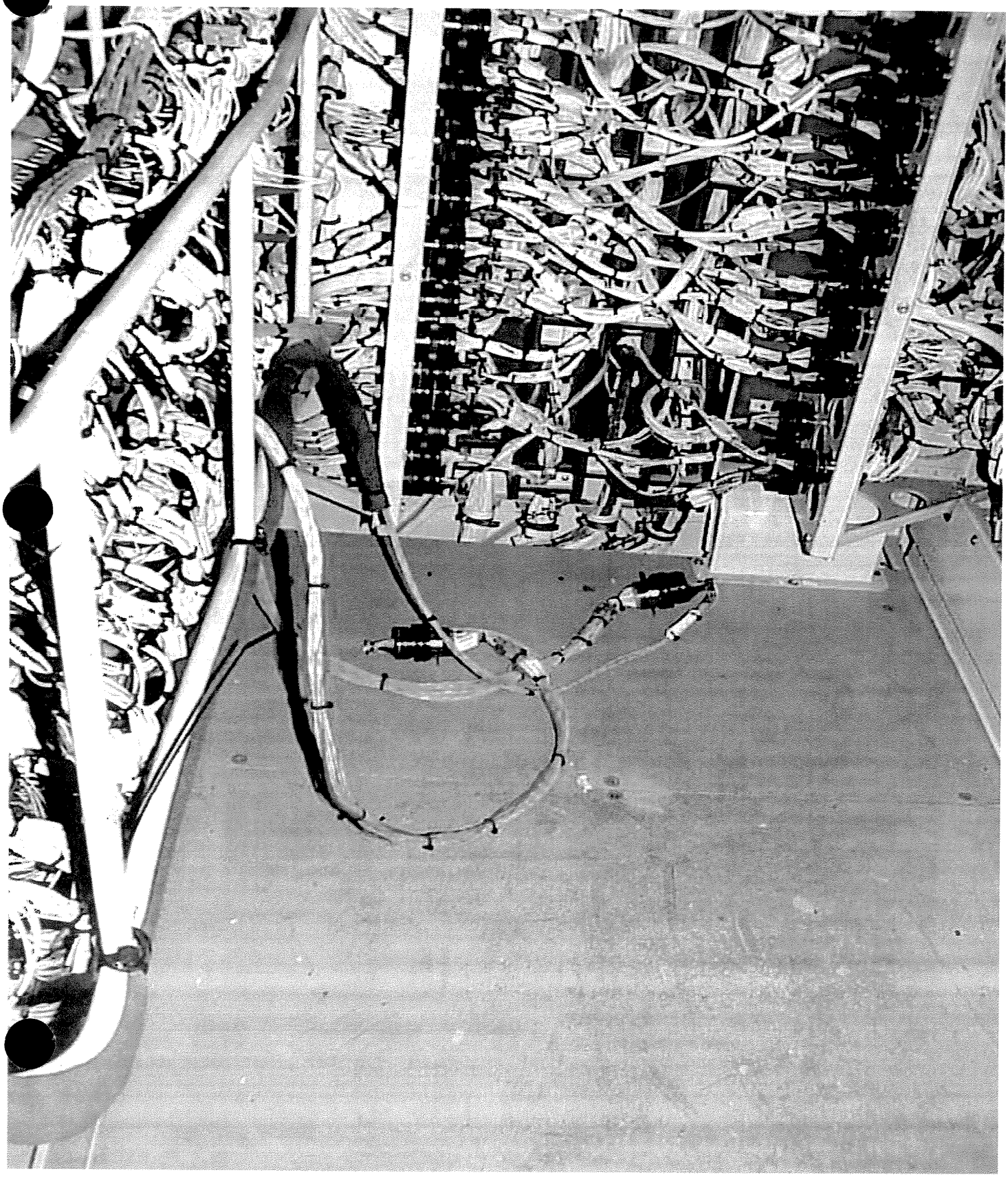
APPENDIX VI

PHOTOGRAPH INDEX

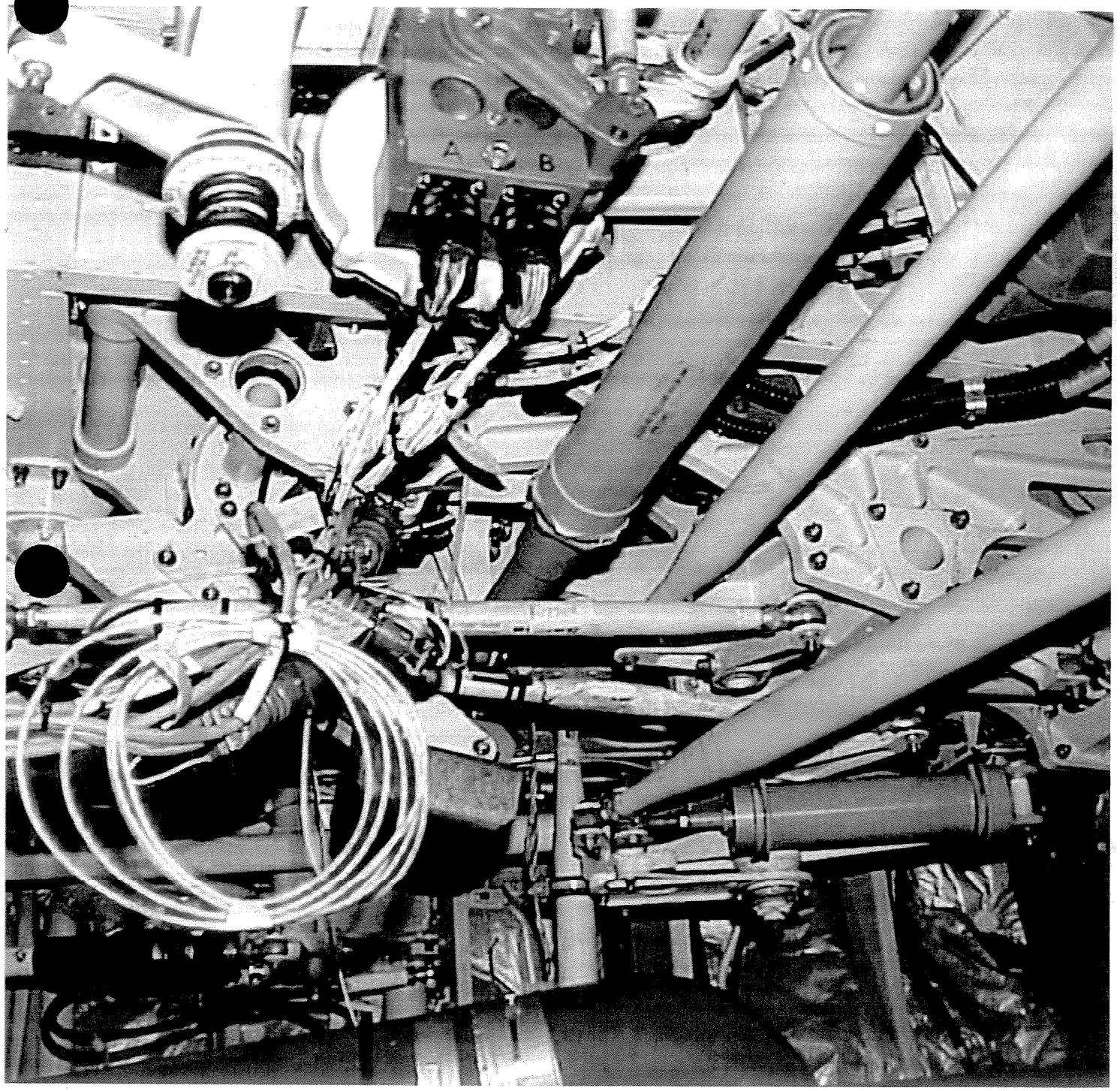
EE BAY: AIRBUS SIGNAL BREAK-OUT SOURCE



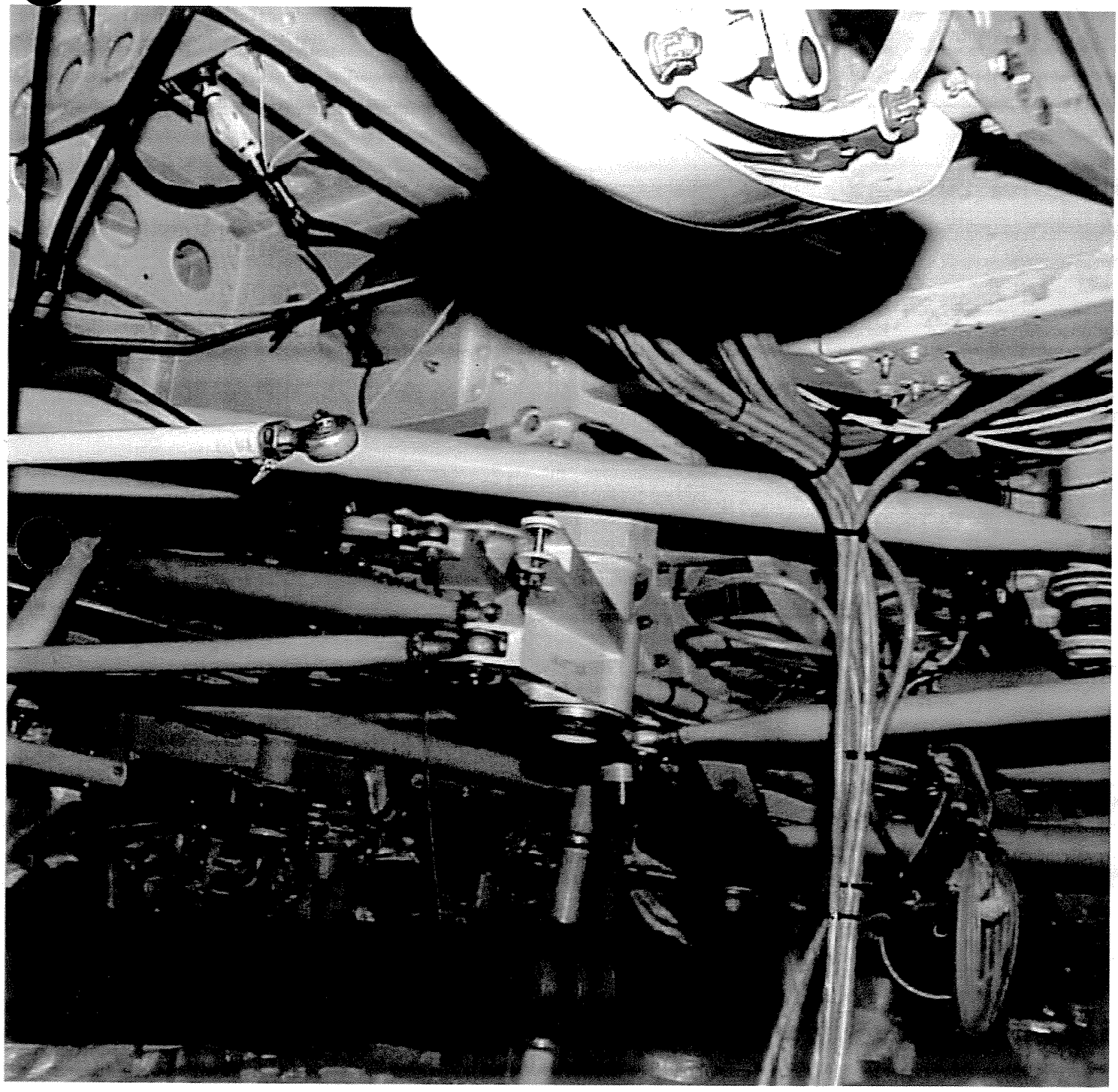
EE BAY: AIRBUS SIGNAL BREAK-OUT SOURCE 2



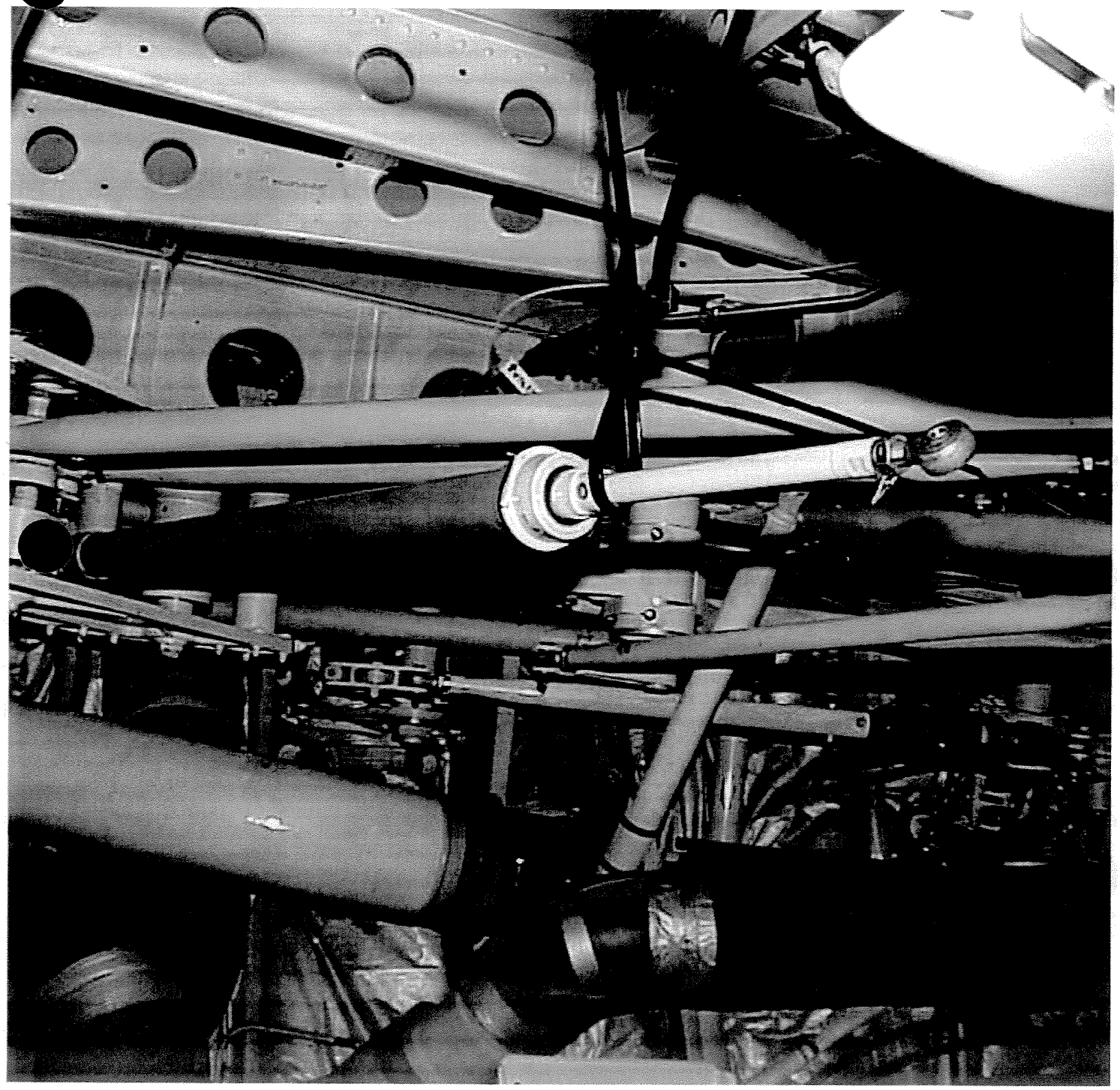
FWD CONTROL BAY: AIRBUS ROD LOADS



FWD CONTROL BAY: AIRBUS ROD DISCONNECTED 1

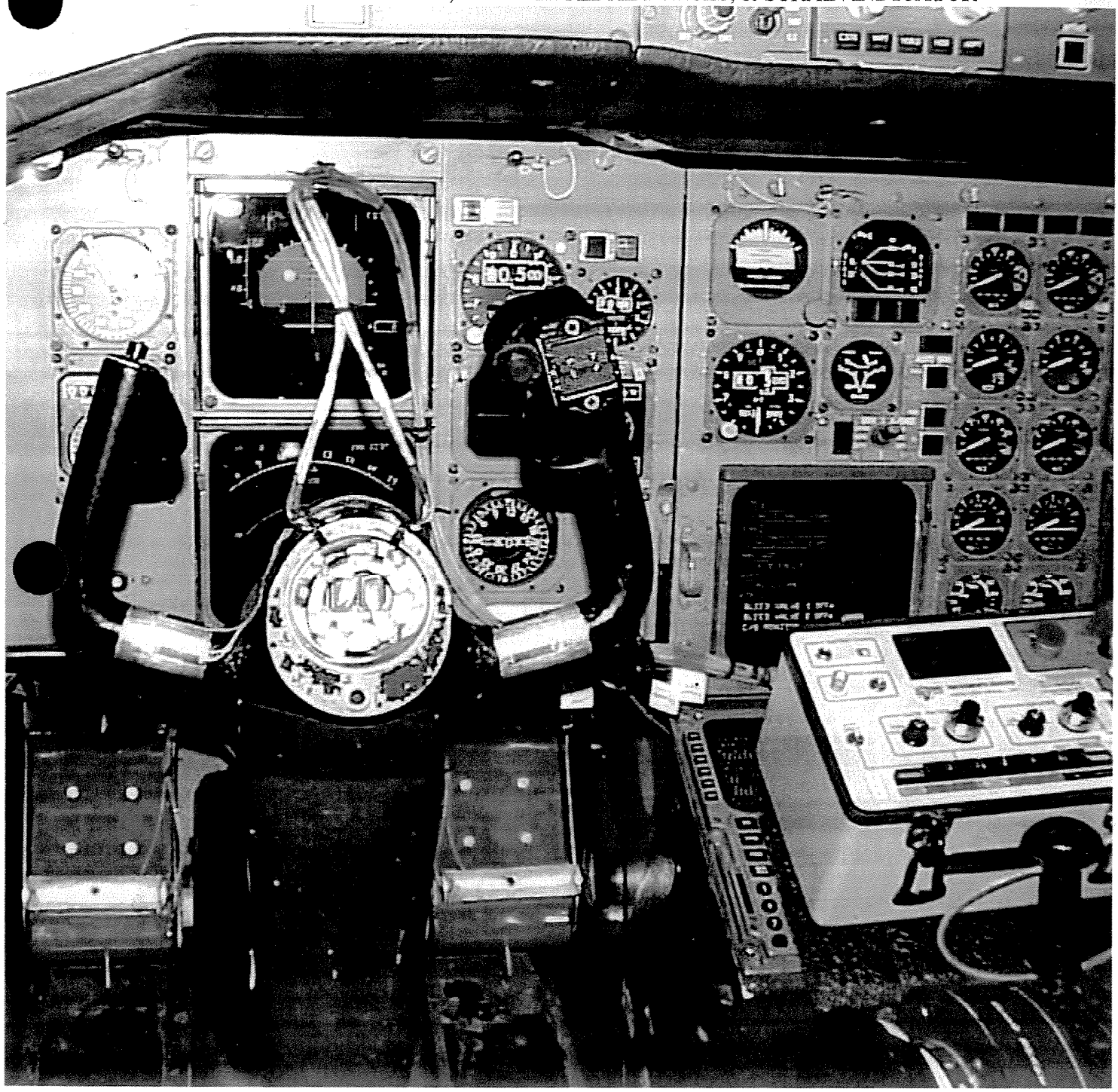


FWD CONTROL BAY: AIRBUS ROD DISCONNECTED 2



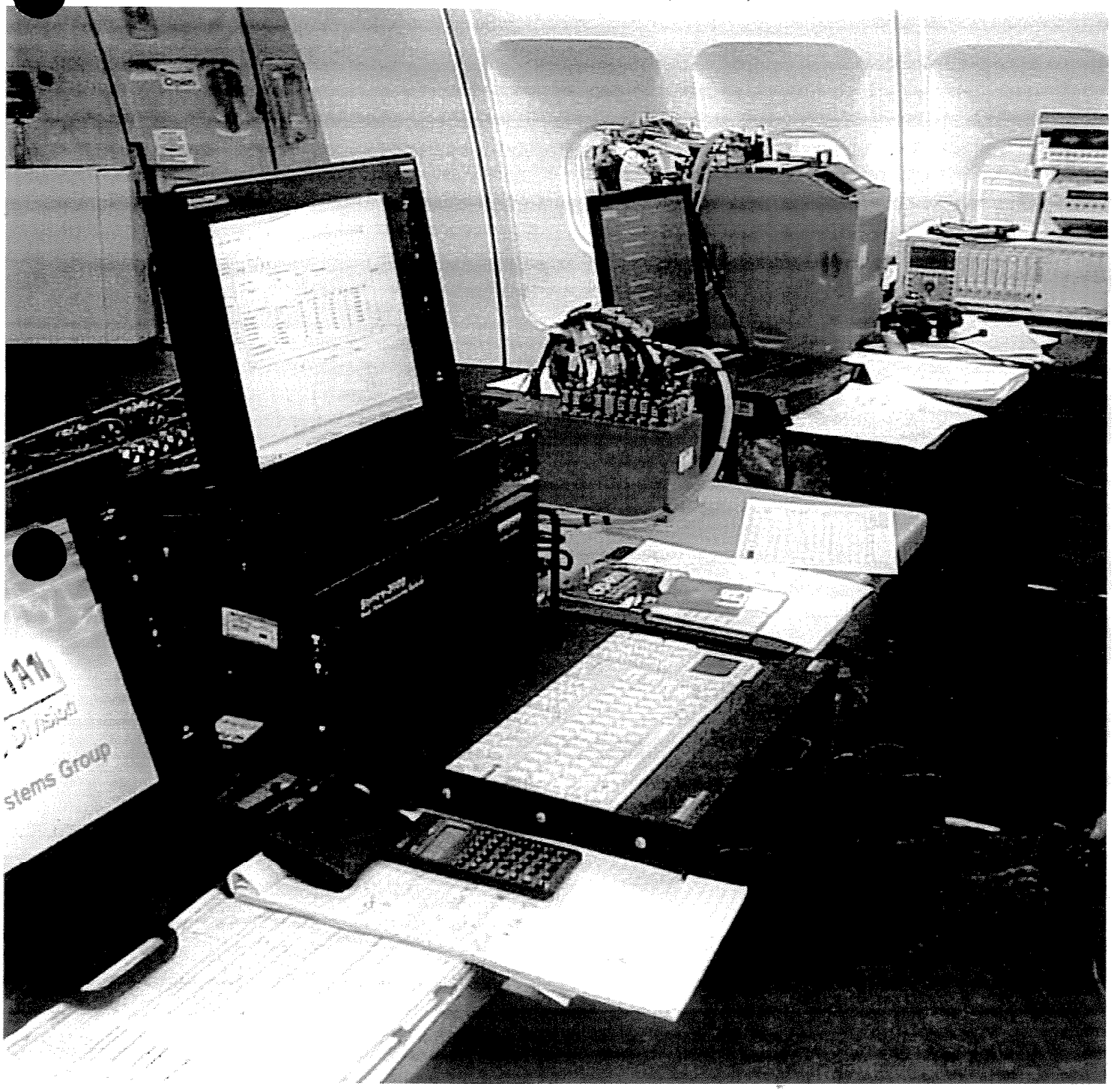
COCKPIT: INSTRUMENTATION OVERVIEW

COCKPIT: CONTROL WHEEL, RUDDER PEDAL FORCES, & STRAIN INDICATOR

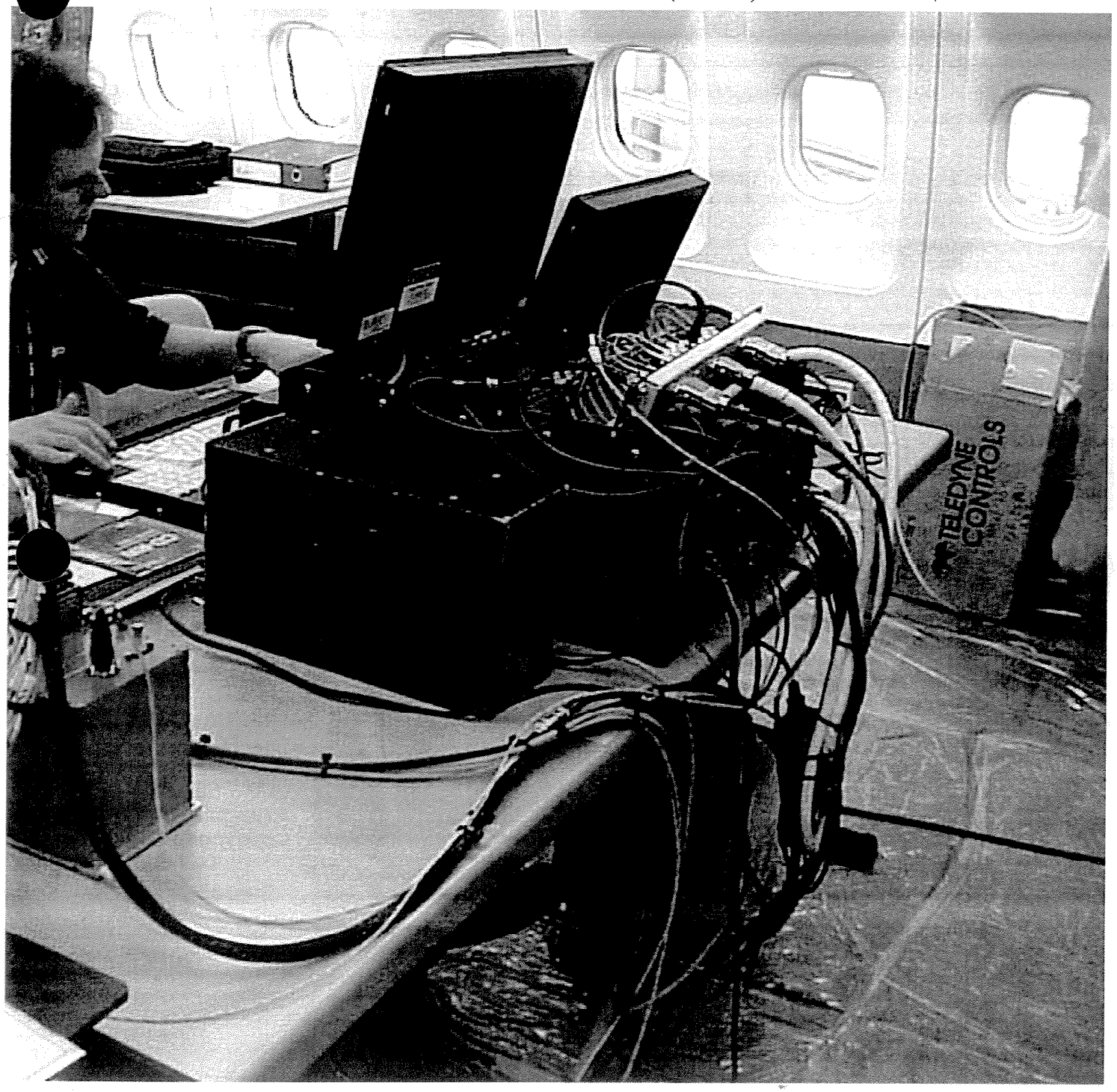


COCKPIT: CONTROL WHEEL & RUDDER PEDAL POSITION INDICATOR.

FWD CABIN: DATA SYSTEM (VIEW 1)



FWD CABIN: DATA SYSTEM (VIEW 2)



FWD CABIN: DATA SYSTEMS (VIEW 3)