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:

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Dept, Section	ALL	Thomas Grace (Date) Modifications:
Lab	ALL	
Maintenance	ALL	(Date)
Program Office	ALL	
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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.

Distribution limited to the National Transportation Safety Board (NTSB). The contents of this report may <u>not</u> be released by any organization other than the NTSB without the written permission of the NTSB.

TEST ARTICLE PREPARATION Naval Air Warfare Center

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Report No. <u>TAP 01-05-533</u> TEST ARTICLE PREPARATION Naval Air Warfare Center

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.

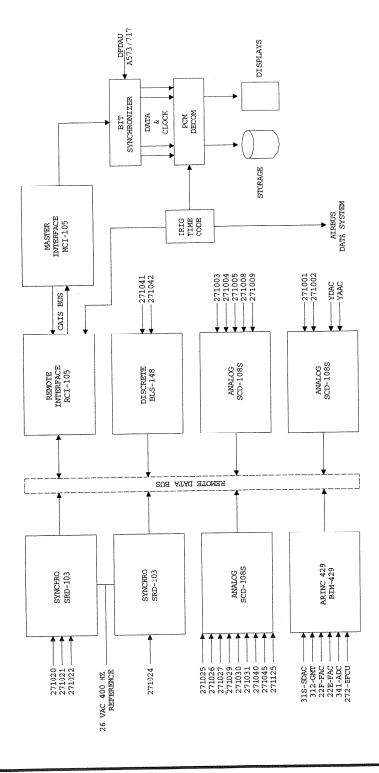
AUG 31-SEP 18, 2002: TAP installed, calibrated, and participated in testing on MSN 701 at Airbus Industries, France. Calibration of TAP instrumentation was verified on the aircraft to ensure no change or damage occurred during shipment. Calibration of the production sensors were performed using Airbus 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

Report No. <u>TAP 01-05-533</u> TEST ARTICLE PREPARATION Naval Air Warfare Center

Pg. No. <u>I-2</u>

DOCUMENT INDEX

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INSTALLATION PINK SHEET	I-3
TNSTALLATION ORANGE SHEET	

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APPENDIX II

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HUMAN FACTORS GROUP (FILES AND	PARAMETER LIST)II-	-7
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HF10021021.001	HFLIST		CCP573	
HF10031031.001	HFLIST		CWF	271010
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AIRBU 800 MSN 701 HUMAN FACTORS GROUP

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AIRBU 300 MSN 701 HUMAN FACTORS GROUP

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HF20333031.001	HFLIST1			Annum and Andrew (All Andrew A
HF20343081.001	HFLIST1			





AIRBU 800 MSN 701

TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF20353051 001	TESTEL F	manus d'unidos de partir despresar con company de la platación de la company de la com		
HF20363061.001	HFLIST			
HF20373021.001	HFLIST			
HF20383011.001	HFLIST	ARCHITICAL III III III III III III III III III I		en ordered is de les déces à soit et l'est engament acteur aussi des déces de la déces de la déces de la déces
HF20393071.001	HFLISTI	единулги и политинальный индерсуульству Сулг (тетренерген унда деледатурга индерсуульству индерсуульству индер		emakan mahaba a min joyong mpaya sama dahaman isaha mahaba Mohaba Mahaba isaha mahaba da mahaba mahaba da mahaba
HF20403041.001	HFLIST1			HAANOON URTORI TERPORTE IN THE THE THE TRANSPORTE TO THE TRANSPORTE THE TRANSPORT
HF20413042.001	HFLIST	THE COMMERCE OF THE PROPERTY O		AND ALL VALUE AND ALL
HF20423052.001	HELIST1			THE RESERVE THE RE
HF20433012.001	HFLISTI	en en i superior de quel desde la bella de prepare por una mensión como de a minema en medido de Mello (PE) de Peren en e		and discuss of problems as present an extension section on the act Valued deleted \$10.00 in \$10.
HF20443072.001	HFLISTI			THE PARTY OF THE COMMENT AND ADDRESS AND A
HF20453082.001	HELIST1			THE REPORT A THE PARTY OF THE
HF20463032.001	HELIST1			
HF20473022.001	HFLISTI			
HF20483062.001	HELISTI			And a state in the state of the
HF20494041.001	HFLIST1			
HF20504021.001	HFLIST			
HF20514011.001	HFLISTA			
HF20524031.001	HELIST			
HF20575021.001	HEISTA			
HF20585011.001	TISTEE			
HF20595041.001	HEIST			
HF20605031.001	HFLISTA	and the salest subdiving the salest state of t		
HF20615022.001	HFLISTA	er per en personal de la colonidad de la colon		Control of the contro
HF20625042.001	HFLIST1	выдарданы валинуну онин и не не не не на даланда да двару (пр. 10 г.) в не передел в на не не не не не не не н		
HF20635032.001	HFLISTA	у да весена да на населена на населена на населена на населена на пределена подат на селеда на селеда на населена на на на населена на на на населена на н		
HF20645012.001	HFLIST1			
HF20656031.001	HFLIST1			
HF20666021.001	HFLIST1			
HF20676051.001	HFLIST1	на (ООСУ 11 гудурган одружавания разволя выполнять пакаження AAAA Actual-AAAA (ООСИДУ) природения уступуту туру теревере		Paper a color de la color de l
HF20686011.001	HFLIST1			The second of th
HF20686011A.001				
HF20696121.001	HFLIST1			manada and dada ka hada da seperanja paga paga ang anak panak panak tinak tinak na ka ka kada pakabaga a pana a
HF20706111.001	HFLISTA	дала дела да да положения и терем и фен и и и положения дела изи дела положения дела положения дела и положения		
HF20716041.001	HFLIST			



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TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF20726071.001	HELIST			
HF20736081.001	HELISTE			
HF20746091.001	HFLIST	All Oddynille (op de camery manuel e a manuel e a camer		
HF20756101.001	HFLIST			
HF20766061.001	HFLIST			
HF20776122.001	HFLIST1			
HF20786092.001	HFLIST1	ондата — на на на Алада Малада Адарија од рединенијете о насе за постата и постата постата на постата на поста Стата на насе н		TO THE RESERVE OF THE PROPERTY
HF20796042.001	HFLIST1			The state of the s
HF20806072.001	HFLIST1			
HF20816112.001	HFLISTA	AND ALTERNITY AND RECOGNISHED THE PROPERTY OF		
HF20826012.001	HELISTA			
HF20836082.001	HFLIST			
HF20846052.001	HFLIST1			
HF20856062.001	HFLIST1			And the state of t
HF20866102.001	HFLIST1			
HF20876022.001	HFLIST1			
HF20886032.001	HFLIST1			
HF20897061.001	HFLIST1			
HF20907011.001	HFLIST1	e de la companya de l		
HF20917071.001	HFLIST1			
HF20927041.001	HFLIST1	тери подучит тефир а пада пр на ан възда досуга (1870 и 1887 (1881) 1887 (1887) Тейна (1888) Тейна (1888)		
HF20937021.001	HELISTA			
HF20947031.001	HFLIST1	ту вереден тор да поветнение на од село село село село село село село село		
HF20957081.001	HFLIST1			
HF20967051.001	HFLIST1			
HF20977022.001	HFLIST1			COLUMN THE RESIDENCE OF THE PROPERTY OF THE PR
HF20987012.001	HELISTA			
HF20997082.001	HFLIST1			
HF21007062.001	HFLIST1	о виде в деген в чет в первидения де в в в в в в в в в в в в в в в в в в		
HF21017042.001	HFLIST1			AMPONNAMIA AMBA MANON YA MAY MAYONAMININAMIA AMPIN'AYAY YA MARAMININAMIA AMBA AMBA AMBA AMBA AMBA AMBA AMBA
HF21027032.001	HFLIST1	AMALIANIAN VARIANCIJIMI RANI JARINES SI PE "ME PROMOCIO" MERCENTI MAS "E IMPRESE MERCENTINES EN PROMOCIONES EN		
HF21037072.001	HFLIST1			
HF21047052.001	HFLISTA			an annual and annual annua
HF21058021,001	HFLIST1			





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	アカン これの で			
HF21068011.001	HFLIST	a mandamadah (Alayayay Priyey Oraya ya manda Adam D Alain P (Million) Million) ya kalain Manda manda manda da d		THE PROPERTY OF STREET WAS THE PROPERTY OF THE
HF21078022.001	HFLISTA	en e		
HF21088012.001	HFLIST	ne en e		many quant and a second a second of the control of the second of the sec
HF30011061.001	HELIST1			
HF30021071.001	HEISTI			
HF30031011A.001	HFLISTI			
HF30031011B,001	HFLIST			
HF30041081.001	HFLIST1			AND THE RESERVE OF THE PARTY OF
HF30051041.001	HFLIST			
HF30061021.001	HFLIST			AND ARRESTS AND
HF30071051.001	HFLIST1	ARREST ARREST AND ARREST A		
HF30081031.001	HFLIST1	AND		
HF30091022.001	HFLIST			er dammad a versioner ered in style sommer fundamment of a lost descriptive stylene is described expenses of memorial expenses of memorial expenses of the stylene of the s
HF30101072.001	HFLIST1			ALMERICAL POPULAR STREET, COMPANY AND ALMERICAN AND ALMERICAN STREET, OF THE PART STREET, ON THE PART STRE
HF30111012.001	HFLIST			
HF30121082.001	HFLIST	- (da a de		AMERICAN PROPERTY OF THE PROPE
HF30131042.001	HFLISTA	MALE SHEET REPORT OF THE THE THE THE STATE OF THE STATE O		
HF30141062.001	HFLIST1			ALAGAMANAYA KANAYA MARAMANIA MARAMANIA MARAMANIA MARAMANIA MARAMANIA MARAMANIA MARAMANIA MARAMANIA MARAMANIA M
HF30151032.001	HFLIST1			A CONTRACTOR OF THE PROPERTY O
HF30161052.001	HFLIST1	dada		ANY PROCESS OF THE PR
HF30172011.001	HFLIST1			AND IN THE RESEARCH IN THE PARTY OF THE PART
HF30182031.001	HFLIST1	придрадня положения на навина на бана в 1830 году в попута претупратуте претупратуте по постава выполня в 1830		
HF30192041.001	HFLIST			ALE MONTH OF THE
HF30202081.001	HFLIST1	данца при развита вела на велени верени		
HF30333011.001	HELISTA	радара да савеления в да на верхите и завеления на верхите в на верхите в на верхите в на верхите в на верхите		AND
HF30343051.001	HFLIST1			
HF30353021.001	HFLIST1			
HF30353061.001	HFLIST1			
HF30373081.001	HFLIST1			
HF30383071.001	HEISTA	не дели дели дели дели дели дели дели дел		
HF30393041.001	HFLIST1	esse un est en den den dependent (ARA (ARA) (ARA) espera, reproprier par proprier année han de mendent (ARA) (ARA) (ARA) espera, reproprier par proprier de l'Ara) han de mendent (ARA) (A		
HF30403031.001	HFLISTA	не гуперате и мунира и намуна за на наза са паса са пода пределения поставателния пода по су петерите и под а d		d refer to representation of the second seco
HF30413052.001	HFLIST			
HF30423032.001	HFLIST1			



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TEST FILE	PROCESS W/	REMARKS	PARAMETER FILTER LIST	SEQ NUMBER
HF30433022.001	HEIST			
HF30443082.001	HELISTA			
HF30453012.001	HFLIST	A. User experience and installation of the second and the second a		
HF30463072.001	HFLIST1			
HF30473042.001	HFLISTA			
HF30483062.001	HFLIST1			
HF30494041.001	HFLIST1			
HF30504011.001	HFLIST1	дада, гуда дверен компенса алем алем алем алем пенска е се с		
HF30514021.001	HFLIST1	DESCRIPTION OF THE PROPERTY OF THE SERVICE OF THE S		
HF30524031.001	HFLIST			
HF30575011.001	HFLIST1			ALANANA SIMBILI MANANA MANANA MANANA MANANA ANA ANA ANA
HF30585041.001	HFLIST1			AND
HF30595031.001	HFLIST1			er de de la desta de la de
HF30605021.001	HPLIST1	And the second s		ANTAN MANYOONIN KANAMANA MAHAA MAYA MANAMININ MARKAMAN MARKAMAN KANAMAN MARKAMAN MARKAMAN MARKAMAN MARKAMAN MA
HF30615032.001	HFLISTA	Annua () is to be a complete to the complete		ARRESTANTA I I I MARTINI MARTINI PARTO PARTO PARTO MARTINI MARTINI ARRESTA
HF30625012.001	HFLIST1			O DO POTO BOTO POTO THE MANAGEMENT AND AND AND STREET THE STREET STREET, STREET STREET, STREET STREET, STREET,
HF30635022.001	HFLIST1			estate estate e estate e en
HF30645042.001	HFLIST1			THE STREET, AND THE PROPERTY OF THE STREET, AND THE STREET, AN
HF30656091A.001	I			HARMAN MANAGAMAN I PARAMAN MANAGAMAN AND AND AND AND AND AND AND AND AND A
HF30656061.001	HFLIST1	nen meneran di salah Addiri Addiri Addiri San		
HF30676011.001	HELIST1			
HF30686081.001	HFLIST1			
HF30696051.001	HFLIST1	Venneri i il		
HF30706101.001	HFLIST1			
HF30716121.001	HFLIST1			
HF30726021B.001	I			Address Wilder Strong - Baston - Constant Constant Constant Constant Constant Constant Constant Constant Const
HF30736071.001	HFLIST1			
HF30746041.001	HFLISTA			
HF30756111.001	HELIST1			
HF30766031.001	HELISTA	ann na mamadabhin manada i ta shiidhiidhiidhiidhiidhiidhiidhiidhiidhii		
HF30776032.001	HFLIST1			MATERIALAS FRANCISCO DE COMPANDO DE PROPRESENTA POR REMANDO DE PROPRESENTA DE COMPANDO DE
HF30786092.001	I	адон под менадам об от сумерамене — в выполняем выполняем выболеем выполняем выполняем об ответственного выполн		
HF30796122.001	HFLIST1			
HF30806112A.001	HELISTA			





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SEQ NUMBER																											THE PROPERTY AND ADDRESS OF THE PROPERTY OF TH	
PARAMETER FILTER LIST																												THE PROPERTY OF THE PROPERTY O
REMARKS	A MARIA MARIA A CARA MARIA MARIA MAMBANA MAMBANA MARIA MAMBANA MARIA MAMBANA MARIA A MARIA MARIA MARIA MARIA M	не да на ванива на на навъзда областо прого стет втор ден спореже с од возменен на селдавата деланавала подава			MACAMATERIA SERVICIA																							
PROCESS W/	HFLIST	HFLIST1	HFLIST1	HFLIST1	HFLIST	HFLIST1	HFLIST1	HFLIST	HFLIST1	HFLIST1	HFLISTA	HFLIST	HFLIST1	HFLIST1	HFLISTA	HFLISTA	HFLIST1	HFLIST	HFLIST1	HFLIST1	HEI ST4							
TEST FILE	HF30816102.001	HF30826062.001	HF30836052.001	HF30846022.001	HF30856072.001	HF30866082.001	HF30876042.001	HF30836012.001	HF30897011.001	HF30907021.001	HF30917041.001	HF30927051.001	HF30937081.001	HF30947061.001	HF30957071.001	HF30967031.001	HF30977082.001	HF30987072.001	HF30997032.001	HF31007022.001	HF31017062.001	HF31027012.001	HF31037052.001	HF31047042.001	HF31058011.001	HF31068021.001	HF31078012.001	HF31088022.001





AIRBU 300 MSN 701 DFDR TEST

																			-			OF THE PERSON NAMED IN COLUMN 1							
SEQ NUMBER				31S310-1B	31S310-1C	271020	271021	341206	271011	271027	ANALYSIS OF THE CONTRACT OF TH	271010	271026			271022	31S314		e volumba menerale de la companya d		271125	271024	271001	271002	271025	ada menderiorinia anda manda del de alta del perdenito de debero de formario de de manda de comba de manda de	AND THE COURSE OF THE COURSE O	31S312	
PARAMETER FILTER LIST	DFDRLISTA	AIL_LH_573	AIL_RH_573	AILPOLHSDAC	AILPORHSDAC	AILPOSLHANLG	AILPOSRHANLG	CAS	COF	COP	CCP_573	CWF	CWP	CWP_573	ELEV_573	ELEVPOSANLG	ELEVPOSDAC	GMT_HOURS	GMT_MIN	GMT_SEC	POTPWR	RDRPOSANLG	RPFLH	RPFRH	RPP	RPP_573	RSP_573	RSPSDAC	
REMARKS		THE RESERVE OF THE PROPERTY OF		AND THE PARTY OF T	The state of the s	and the same of th			A CANADA PARA PARA PARA PARA PARA PARA PARA P	A	Married I thank to find a few or that the few of the fe	AND THE PROPERTY OF THE PROPER		The same of many fine a standard and standard depth of the same of			And the state of t	A CONTRACTOR OF THE PROPERTY O	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE							and and the second control of the second control of the second of the se			
PROCESS W/	DFDRLIST1	DFDRLIST1	DFDRLIST1	DFDRLIST1	DFDRLIST1	DFDRLIST1					Andre and an annual definition of the first first definition of the first section of the firs	MANAGA AND GARANGER VIVE AND		AND	AND THE PROPERTY OF THE PROPER	ppi ggy an anny y an paintain a special and an anna de anna de anna de anna de anna (de anna de anna de anna d	A A MANAGEMENT ARREST MANAGEMENT AND VARIOUS AND		a mana a mana mana mana da da mana mana	menda da adali da adali da manta da adali da adala da adala da adala da adala da adala da da adala da adala da	makanasa i adama ma andam da sa sa masa sa da kanada da maka da maka ata da da da mamaka da maka da da da da d	NE EA BAIL AN THE	maka (m.). (Amadon moles is bind a belanca et em antóna a tinda seguina en doministrata en estada en el cidad d			AND REVIEW EXCHANGE WITH THE PROPERTY AND THE PROPERTY AN			
TEST FILE	DFDRTEST.001	DFDRTEST.002	DFDRTEST.003	DFDRTEST.004	DFDRTEST,005	DFDRTEST.006	THE THE PARTY MADE AND ADDRESS OF THE PARTY PARTY AND ADDRESS OF THE PARTY PARTY.					THE REAL PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF T			A PART OF THE PART		мународь обращения муниципальных и в меня менятельных операток и по по по предоставляющей в менятельной в менятел		AND THE PROPERTY OF THE PROPER	ANANANAMANINA MARANINA MANANANA MANANANA MANANANA MANANANA MANANANA MANANANA MANANANA MANANANA MANANANA MANANA	THE PROPERTY OF THE PROPERTY O	forms plates a faithmen are a maken or demanders which is a deformable by	MARKATAN AND AND AND AND AND AND AND AND AND A	FOR MAIN TO A A SALE OF MAIN AND AND AND AND AND AND AND AND AND AN		ментиция интолностического сили пред пред пред пред пред пред пред пред			





APPENDIX III

TEST ARTICLE PREPARATION Naval Air Warfare Center

Pg. No. <u>III-2</u>

PARAMETER LIST AND DATA FORMAT INFORMATION

ITEM	PAGE
CAIS - BIT SYNC/DECOM/PARAMETER LIST	III-3
ARINC 573/717 - BIT SYNC/DECOM/PARAMETER LIST	II-13
CAIS - PCM FORMAT MAP	II-19
ARINC 573/717 - PCM FORMAT MAPII	II-27
CAIS PARAMETER SETUP	II-39

AIRBUS A	1SN 701	DECOM SETUP
	AIRBUS A	BIT SYNC /

Polarity Normal	Tape Output NRZ-L	Frame Sync Mask FFFF	Frame Alt Comp OFF	Output Mode MINOR	Agior Frame Structur SFID	Bit Position 12	SF Misses to Drop	Video Setup 2 131074
Loop B/W 0.5	Input Source EXT1	Frame Sync Pattern FE6B2840	Max Bit Slip	Input Source EXT	Impedance LOW	SFID/URC Word Numbe <u>r</u> 2	SF Matches for Lock	Video Setub 1 65538
Deviation	Input Code NRZ-L	Frame Sync Size	Max Bit Errors	Default Word Size 16	Clock Phase 0	SFID/URC Size	Count Direction UP	Decom Mode Standard
Bit Rate 70000	<u>Impedance</u> LOW	Channel Number 1	Misses to Drop	1st Bit Xmitted MSB	Data Polarity NORMAL	Number of Minor Frames 16	Min Value	PCM SOURCE TTL
card Number	Clock Phase 0	Card Number	Matches for Lock	Virtual Decom	Embedded Output NONE	Words per Minor Frame In	SFID 1St Bit MSB	FCC/URC Sync Pattern
BIT SYNC Stream Name		DECOM Stream Name	MC1105_1					

5N 701	LIST
BUS A3	PARAMETER
E	Φ

Parameter Name	Parameter Description	Primary Upper Limit	Primary Lower Limit	Units	ilme lag	mout rolliat
ABCCF	CPT CTL FORCE	Ω.	7.	LBS	IRIG	BINARY
ABCWFCAPH	CPT WHEEL FORCE (HORIZONTAL)	5	2-	LBS	IRIG	BINARY
ABCWFCAPV	CPT WHEEL FORCE (VERTICAL)	5	5-	LBS	IRIG	BINARY
ABCWFFOH	F/O WHEEL FORCE (HORIZONTAL)	S	-5		IRIG	BINARY
ABRPF	YAW CONTROL FORCE	5	-5		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		IRIG	BINARY
AILPOLHSDAC4	L/H AILERON POSITION SDAC	65535	0	COUNTS	IRIG	BINARY
AILPOLHSDAC5	L/H AILERON POSITION SDAC	65535	0		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
AIL-PORHSDAC3	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	9 L	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	O LBS	IRIG	BINARY
CCP	CONTROL COLUMN POSITION	11	-11	1 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
tric	andog taging togethon	150	150	1.00	7	



Parameter Name	Parameter Description	Primary Upper Limit Prim	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		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		IRIG	BINARY
GMTHMS3	GMT (HOURS, MIN, SEC)	65535	0		IRIG	BINARY
GMTHMS4	GMT (HOURS, MIN, SEC)	65535	0		IRIG	BINARY
GMTHMS5	GMT (HOURS, MIN, SEC)	65535	0		IRIG	BINARY
HITIME	HIGH TIME	65535		COUNTS	IRIG	BINARY
HITIMEREM	HIGH TIME REMOTE	65535	0	COUNTS	IRIG	BINARY
HYDPRESSBLU	HYDRAULIC PRESSURE - BLUE	4095	0	PSI	IRIG	BINARY
HYDPRESSBL01	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
HYDPRESSGRW1	HYDRAULIC PRESSURE - GREEN	65535	0	COUNTS	IRIG	BINARY
HYDPRESSGRN2	HYDRAULIC PRESSURE - GREEN	65535	0	COUNTS	IRIG	BINARY
HYDPRESSGRW3	HYDRAULIC PRESSURE - GREEN	65535		COUNTS	IRIG	BINARY
HYDPRESSGRW4	HYDRAULIC PRESSURE - GREEN	65535	0	COUNTS	IRIG	BINARY
THOUSEGOOME	HYDRAILING PRESSIER - GREEN	65535	C	COUNTS	TRIC	BINARY



Parameter Name	Parameter Description	Primary Upper Limit	Primary Lower Limit	OUIES	IIMe Iag	IIIDAL FOILIIAL
HYDPRESSYLW	HYDRAULIC PRESSURE - YELLOW	4095		0 PSI	IRIG	BINARY
HYDPRESSYLW1	1	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
маснз	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
MASSVDCPOS	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	8 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	S		0 VOLTS	IRIG	BINARY
RDRPOSANLG	RUDDER POSITION ANALOG	30		-30 DEG'S	IRIG	2 'S COMPLEMENT
RDRTRVLFLC1	RUDDER TRAVEL LIMITER FAULT FLC 1			0 DISCRT	IRIG	BINARY
RDRTRVLFLC2	RUDDER TRAVEL LIMITER FAULT FLC 2			0 DISCRT	IRIG	BINARY
REM12VDCNEG	REMOTE - 12V POWER SUPPLY	65535		0 COUNTS	IRIG	BINARY
REM12VDCPOS	REMOTE + 12V POWER SUPPLY	65535		0 COUNTS	IRIG	BINARY
REM15VDCNEC	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	на акцият се в ариал лада, се на арадината по разгора видента на пределения на пределения видента на пределения	0 COUNTS	IRIG	BINARY
REMTEMP	REMOTE TEMP	65535		0 COUNTS	IRIG	BINARY
RPFLH	L/H RUDDER PEDAL FORCE	250	-250	50 LBS	IRIG	BINARY
RPFRH	R/H RUDDER PEDAL FORCE	250	-250	50 LBS	IRIG	BINARY
6 6	ואסדמדים סמי זגלמים ממסמונים	2.4		ט י טאַרר	7404	יות אוא+ ת יות אוא+ ת



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
STABPOSSDACS	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
VARSTPACTTEVL	VARIABLE STOP ACTUATOR POSITION% TRVL	65535	0	8TRVL	IRIG	BINARY
WHEELPOSBUS	CONTROL WHEEL POSITION (A429)	189.8818054	-189.8818054	DEG'S	IRIG	2'S COMPLEMENT
WHEELPOSBU31	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	окуй от урубей у порожения по установания подравания у рамония дела помо подержания выполняющего дела выполняющего выполняющего дела выстра выполняющего дела выполняющего дела выполняющего дела выполняющего дела выполняющего дела выполна выполняющего дела выполна	0 COUNTS	IRIG	BINARY
YAAC	- 1	65535		0 M AMP	IRIG	BINARY
YAWCMDFACOJT	YAW RATE COMMAND FAC 1 OUTPUT	15	-15	5 DEG'S	IRIG	BINARY
YAWPOSFACOJT	YAW DAMPER POSITION FAC 1 OUTPUT	15	τ.	5 DEG'S	IRIG	BINARY
YAWRATE	YAW RATE	15		5 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
YAWRATES	YAW RATE	65535		0 COUNTS	IRIG	BINARY
YAWSERFCCOUT	YAW AP ACTUATOR POSN FCC 2	32.61000061	-32,61000061	L 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 EOX)	65535		0 M AMP	IRIG	BINARY

ISN 701	TURE LIST
AIRBUS A3	PCM STRUC

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
ABCCF	т	20	-	0	15	4
ABCWFCAFH	7	17	П	0	15	4
ABCWFCAFV	_	19	~-1	0	15	4
ABCWFFOH		18	-	0	15	4
ABRPF		16		0	15	4
AILPOLHSDAC		31	8	0	15	4
AILPOLHSDAC1	+	31	8	0	15	0
AILPOLHSDAC2	Н	32	8	0	15	0
AILPOLHSDAC3		33	8	0	15	0
AILPOLHSDAC4	-	34	8	0	15	0
AILPOLHSDAC5	7	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	H	46		0	15	0
AILPOSRHANLG	П	47		0	15	0
ALT	-	26	4	0	6	0
ALT	Н	27	4	0	15	14
ALT1	-	26	4	0	15	0
ALT2	Н	27	4	0	15	0
ALT3	Н	28	4	0	15	0
ALT4	Н	29	4	0	15	0
ALTS	Н	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	Ţ	0	15	0
CAS	ഹ	21	8	0	14	ж
CCF	Н	6	₽	0	15	4
CCP		13	2	0	1.5	4

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ISN 701	CTURE LIST
AIRBUS A3	PCM STRU

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
COMPAS	2	21	8	0	14	т
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
COMPASS	5	25	8	0	15	0
CWF		8		0	15	4
CWP	2	13	2	0	15	4
ELEVPOSANLG		62		0	15	0
ELEVPOSSDAC	3	31	8	0	15	4
ELEVPOSSDAC1	ж	31	8	0	15	0
ELEVPOSSDAC2	3	32	8	0	15	0
ELEVPOSSDAC3	ж	33	8	0	15	0
ELEVPOSSDAC4	ж	34	8	0	15	0
ELEVPOSSDAC5	3	35	8	0	15	0
FUNGEN	2	53	;	0	15	4
GMT_HOURS	3	21	&	0	15	10
GMT_MIN	3	21	8	0	6	4
GMT_SEC	3	21	0	0	3	0
GMT_SEC	3	22	0	0	15	14
GNT1101001	Н	21	8	0	15	0
GNT1101002	-	22	8	0	15	0
GMT1101003	Н	23	8	0	15	0
GMT1101004	н	24	8	0	15	0
GMT1101005	Н	25	8	0	15	0
GMTDMS1	2	21	8	0	15	0
GMTDMS2	2	22	8	0	15	0
GMTDMS3	2	23	∞	0	15	0
GMTDMS4	2	24	8	0	15	0
GMTDMS5	2	25	8	0	15	0
GMTHMS1	3	21	æ	0	15	0
GMTHMS2	Э	22	8	0	15	0
GMTHMS3	3	23	œ	0	15	0
GMTHMS4	E	24	æ	0	15	0
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ISN 701	JRE LIST
AIRBUS A3	PCM STRUCTO

HITIME		Initial Word	Frame Increment	Word Increment	MSB	LSB
	-	4	, —-1	0	15	0
HITIMEREM		54	, 	0	15	0
HYDPRESSBLU	4	31	∞	0	14	m
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	æ	0	14	3
HYDPRESSGRN1	2	31	80	0	15	0
HYDPRESSGRN2	5	32	&	0	15	0
HYDPRESSGRN3	5	33	æ	0	15	0
HYDPRESSGRN4	Ŋ	34	œ	0	15	0
HYDPRESSGRN5	5	35	8	0	15	0
HYDPRESSYLW	9	31	8	0	14	m
HYDPRESSYLW1	9	31	8	0	15	0
HYDPRESSYLW2	9	32	8	0	15	0
HYDPRESSYLW3	9	33	8	0	15	0
HYDPRESSYLW4	9	34	8	0	15	0
HYDPRESSYLW5	9	35	8	0	15	0
LOTIME	Н	5	1	0	15	0
LOTIMEREM	н	55	-1	0	15	0
MACH	9	21	8	0	13	2
MACH1	9	21	8	0	15	0
MACH2	9	22	œ	0	15	0
MACH3	9	23	œ	0	15	0
MACH4	9	24	8	0	15	0
MACH5	9	25	8	0	15	0
MAS12VDCNEG		7	0	0	15	4
MAS12VDCPOS	2	7	0	0	15	4
MAS15VDCNEG	3	7	0	0	15	4
MAS15VDCPOS	7	7	0	0	15	4
MASSVDCPOS	Ŋ	7	0	0	15	4
MASIRIGSTAT	9	7	0	0	15	4
MASTERTEMP	7	7	0	0	15	7

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1707	LIST
ISN	JRE
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AIR	PCM

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	ראם
MODYAWRATE	Т	57	(1	0	14	0
MODYAWRATE1		57	.	0	15	0
MODYAWRATE2	н	58	, —1	0	15	0
MODYAWRATE3	-	59	~	0	15	0
MODYAWRATE4	Н	09	, —I	0	15	0
MODYAWRATE5	~	61	Η	0	15	0
POTPWR	-	52	æ	0	15	4
RERPOSANLG	-	63	- -1	0	15	0
RDRTRVLFLC1	е	52	8	0	15	15
RDRTRVLFLC2	4	52	8	0	15	15
REM12VDCNEG	8	7	0	0	15	0
REM12VDCFOS	6	7	0	0	15	0
REM15VDCNEG	10	7	0	0	15	0
REM15VDCFOS	77	7	0	0	15	0
REM5VDCP0S	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	Н	11		0	15	4
RPP	Н	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	Н	2		0	15	0
STABPOSSDAC	8	31	80	0	15	4
STABPOSSDAC1	&	31	œ	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	9	-	0	15	0
ITTMEREM	•	56	•	C	7	c

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7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	_	t 4 4	T 4 4 4	4 4 4 4	4 4 1 1 1 1	1 7 7 1 1 1 7 7 7 1	# 4 4 H H H H H T H	1 7 7 1 1 1 1 1 7 7 1	4 4 1 1 1 1 1 1 1 1	4 4 1 1 1 1 1 1 1 1 1 1	# 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# 4 4 1 1 1 1 1 1 1 1 1 1 1	# 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
VARSTPACTPOS VARSTPACTTRVL WHEELPOSBUS WHEELPOSBUS1 WHEELPOSBUS2	DOGRETS	POSBUS4	POSBUS4 POSBUS5 AAC	POSBUS4 IPOSBUS5 IAAC IDFACOUT	POSBUS5 POSBUS5 TAAC TOFACOUT SEFACOUT WRATE	POSBUSA LPOSBUSS TAAC IDEACOUT OSFACOUT WRATE	POSBUSA LPOSBUSA LPOSBUSS (AAAC MDFACOUT OSFACOUT WRATE	POSBUSS TAAC TOFACOUT OSFACOUT WRATE WRATE2 WRATE3	POSBUS4 LPOSBUS5 LPOSBUS5 LAAC MDFACOUT OSFACOUT WRATE1 WRATE2 WRATE2 WRATE3	POSBUSS LPOSBUSS TAAC MDFACOUT SEFACOUT WRATE1 WRATE2 WRATE3 WRATE3	POSBUSS LPOSBUSS TAAC IDEACOUT OSFACOUT WRATE1 WRATE2 WRATE3 WRATE4 WRATE4 WRATE5 SEFCCOUT	I POSBUSA I POSB	POSBUSA LPOSBUSA LPOSBUSA LAAC MDFACOUT WRATE WRATE2 WRATE3 WRATE4 WRATE5 ERFCCOUT STABCMD	JPOSBUSS JPOSBUSS TAAC MDFACOUT WRATE WRATE WRATES	JPOSBUS5 JPO	LPOSBUS5 LPOSBUS5 LPOSBUS5 TAAC WDFACOUT WRATE1 WRATE2 WRATE3 WRATE3 WRATE5 ERFCCOUT STABCMD STABCMD STABCMD STABCMD STABCMD STABCMD STABCMD STABCMD STABCMD	WHEELPOSBUSS WHEELPOSBUSS YAAC YAWCMDFACOUT YAWRATE YAWRATE 'YAWRATES 'YAWSTABCMD 'YAWSTABCMD'S

		AIRBUS AS BIT SYNC / D	AIRBUS A3 N701 BIT SYNC / DECOM SETUP		
BIT SYNC Stream Name	Card Number 2	Bit Rute 768	Deviation	Loop B/W 0.5	POIGRITY NORMAL
A717	Clock Phase	Impedance I _{OM}	Input Code BIO-M	Input Source EXT1	Tabe Output NRZ-L
DECOM Stream Name	<u>card Number</u>	Channel Number	Frame Sync Size	Frame Sync Pattern 389	Frame Sync Mask PFPF
A717	Matches for Lock	Misses to Drop	Max Bit Errors	Max Bit Slip 0	Frame Alt Comp OFF
	1st Bit Xmitted LSE	Default Word Size	In but Source EXT	Output Mode MINOR	Embedded Output NONE
	Clock Phase	Impedance LOW	Major Frame Structure SFID	Major Frame Structure Words per Minor Frame Number of Minor Fran 66	Number of Minor Fran
	SFID/URC Word Number $rac{2}{2}$	Bit Position	SFID 1st Bit LSB	Min Value	Count Direction UP
	SF Misses to Drop	FCC/URC Sync Pattern	PCM SOURCE TTL	<u>Decom Mode</u> Standard	Video Setup 1 65528
	Virtual Decom NO	Data Polarity NORMAL	SFID/URC Size	SF Matches for Lock 2	Video Setup 2 131074

BINARY BINARY BINARY

Input Format

BINARY BINARY

BINARY BINARY

Parameter Description	Primary Upper Limit	Primary Lower Limit	Units	Display Format	Time Tag
NONE GIVEN	-		N/A	FLOAT	IRIG
NONE GIVEN	-		N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN	7	-1	N/A	FLOAT	IRIG
NONE GIVEN		+	N/A	FLOAT	IRIG
NONE GIVEN	,1	-1	N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN		-1	N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN	*-1		N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN		, 	N/A	FLOAT	IRIG
NONE GIVEN		Ι	N/A	FLOAT	IRIG
NONE GIVEN		-1	N/A	FLOAT	IRIG
NONE GIVEN		Ţ	N/A	FLOAT	IRIG
NONE GIVEN	-	-1	N/A	FLOAT	IRIG
NONE GIVEN	₹-1		N/Æ	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN	-		N/A	FLOAT	IRIG
NONE GIVEN		Ι	N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN		Τ.	N/A	FLOAT	IRIG
NONE GIVEN	₽	7	N/R	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN	T		N/A	FLOAT	IRIG
NONE GIVEN	← -1		N/A	FLOAT	IRIG
NONE GIVEN	, —1		N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN	П	1	N/A	FLOAT	IRIG
NONE GIVEN	eI	1	N/A	FLOAT	IRIG
NONE GIVEN		-	N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN	←-1		N/A	FLOAT	IRIG
NONE GIVEN			N/A	FLOAT	IRIG
NONE GIVEN	Ţ	-1	N/A	FLOAT	IRIG
NONE GIVEN	-	EI.	N/A	FLOAT	IRIG
NONE GIVEN	~ 1	-1	N/A	FLOAT	IRIG
NONE GIVEN	Ţ	Τ-	N/A	FLOAT	IRIG

A717WORD0025 A717WORD0027

A717WORD0023 A717WORD0021

A717WORD0030

A717WORD0031 A717WORD0032 A717WORD0033 A717WORD0034 A717WORD0035 A717WORD0036 A717WORD0038 A717WORD0039 A717WORD0040 A717WORD0042

A717WORD0037

A717WORD0041

A717WORD0043

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Parameter Name

A717WORD0000 A717WORD0001 A717WORD0002

A717WORD0003 A717WORD0004 A717WORD0005 A717WORD0006 A717WORD0008 A717WORD0009 A717WORD0010

A717WORD0007

A717WORD0013

A717WORD0012 A717WORD0014 A717WORD0015

A717WORD0011

A717WORD0016 A717WORD0017 A717WORD0018 A717WORD0019 A717WORD0020 A717WORD0022 A717WORD0024 A717WORD0026 A717WORD0028 A717WORD0029

IN 701	LIST
AIRBUS A	PARAME

Parameter Name	Parameter Description	Primary Upper Limit	Primary Lower Limit	Units	Display Format	Time Tag	Input Format
A717MORD0044	NONE GIVEN	1		N/A	FLOAT	IRIG	BINARY
A717WORD0045	NONE GIVEN			N/A	FLOAT	IRIG	BINARY
A717WORD0046	NONE GIVEN			N/A	FLOAT	IRIG	BINARY
A717WORD0047	NONE GIVEN	-	7-	N/A	FLOAT	IRIG	BINARY
A717WORD0048	NONE GIVEN	1		N/A	FLOAT	IRIG	BINARY
A717WORD0049	NONE GIVEN	The state of the s		N/A	FLOAT	IRIG	BINARY
A717WORD0050	NONE GIVEN	-		N/A	FLOAT	IRIG	BINARY
A717WORD0051	NONE GIVEN	-1	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0052	NONE GIVEN	T	7	N/A	FLOAT	IRIG	BINARY
A717WORD0053	NONE GIVEN	, , , , , , , , , , , , , , , , , , , 	1	N/A	FLOAT	IRIG	BINARY
A717WORD0054	NONE GIVEN	_		N/A	FLOAT	IRIG	BINARY
A717WORD0055	NONE GIVEN	, 1	₹ — 1	N/A	FLOAT	IRIG	BINARY
A717WORD0056	NONE GIVEN	-	, , ,	N/A	FLOAT	IRIG	BINARY
A717WORD0057	NONE GIVEN	П	-1	N/A	FLOAT	IRIG	BINARY
A717WORD0058	NONE GIVEN	-	디	N/A	FLOAT	IRIG	BINARY
A717WORD0059	NONE GIVEN	П		N/A	FLOAT	IRIG	BINARY
A717WORD0050	NONE GIVEN	1	• — • • • • • • • • • • • • • • • • • •	N/A	FLOAT	IRIG	BINARY
A717WORD0051	NONE GIVEN	-		N/A	FLOAT	IRIG	BINARY
A717WORD0052	NONE GIVEN	-	*****	N/A	FLOAT	IRIG	BINARY
A717WORD0053	NONE GIVEN	-1		N/A	FLOAT	IRIG	BINARY
A717WORD0054	NONE GIVEN	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

1SN 701	CTURE LIST
AIRBUS A3	PCM STRU

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
	-			0	11	0
A717WORD0001	+1	2	—	0	11	0
A717WORD0002		3		0	11	0
A717WORD0003		4		0	11	0
A717WORD0004		5	-	0	11	0
A717WORD0005		9	H	0	11	0
A717WORD0006	7	7		40	11	0
A717WORD0007		8	T	0	11	0
A717WORD0308		6		33	11	0
A717WORD0309	-	10	H	0	H	0
A717WORD0010	-	TT	Н	0	11	0
A717WORD0011	-1	12		0	11	0
	Н	13	- -1	0	11	0
A717WORD0013		14	Ħ	0	11	0
A717WORD0014	~-1	15	H	0	11	0
A717WORD0015	Н	16	 1	0	11	0
A7:7WORD0016		17	, - 1	0	11	0
A717WORD0017		18	-1	0	11	0
A717WORD0018	Н	19	T	0	11	0
A717WORD0019		20	1	0	11	0
A717WORD0020	~-1	21	, -1	0	디디	0
A717WORD0021	~	22	Н	0	11	0
A717WORD0022	And the state of t	23	H	0	11	0
A717WORD0023	-	24		0	11	0
A717WORD0024	Н	25		0	11	0
A717WORD0025	-	26	7	0	11	0
A717WORD0026	Н	27	H	0	11	0
A717WORD0027	Н	28	— 1	32	11	0
A717WORD0028	Т	29		0	17	0
A717WORD0029	Т	30	~	0	11	0
A717WORD0030	Т	31	,1	0	디	0
A717WORD0031	Н	32	1	0	11	0
A717WORD0032	П	33		0	11	0
A717WORD0033	7	34		0	11	0
A717WORD0034		35		0	11	0

ISN 701	TORE LIST
AIRBUS A3	PCM STRU

Parameter Name	Initial Frame	Initial Word	Frame Increment	Word Increment	MSB	LSB
A717WORD0035		36		0	11	0
03		37		0	11	0
03	-	38		0	11	0
A717WORD0038		39	,	0	11	0
A717WORD0039	AND	40	~-1	0	11	0
04	_	41		0	11	0
A717WORD0041	***************************************	6	,1	33	11	0
0		43		0	11	0
A717WORD0043	-	44	-	0	11	0
A717WORD0044		45	- -1	0	11	0
0		46	,	0	11	0
A717WORD0046		7	ᅮᅥ	40	11	0
A717WORD0047		48	H	0	11	0
A717WORD0348	H	49		0	11	0
A717WORD0049	H	50	-1	0	11	0
	7	51	Н	0	11	0
A717WORD0051	, -1	52		0	11	0
A717WORD0052	7	53	-1	0	11	0
A717WORD0053	7	54		0	11	0
A7:7WORD0054		55	т	0	11	0
A717WORD0055	-1	56	7-1	0	11	0
A717WORD0056		57	~	0	11	0
A717WORD0057	-1	58	-	0	11	0
A717WORD0058		59	←1	0	11	0
A717WORD0059	-	28	—	32	11	0
A717WORD0060		61		0	11	0
A717WORD0061		62		0	17	0
A717WORD0062	Н	63		0	11	0
A717WORD0063	П	64		0	11	0
A717WORD0064	↤	65		0	11	0
AILPOS_LH_573	-	10		0	11	0
AILPOS_RH_573	Т	41		0	11	0
CCP_573	FF	29		0	11	0
	-	22	Н	0	11	0
ELEVP 573	-	6	-	33	11	0

AIRBUS AT ISN 701
PCM STRUCTURE LIST

		PCM STRU	PCM STRUCTURE LIST			
Parameter Name	Initial Frame	Initial Word	Initial Frame Initial Word Frame Increment	Word Increment	MSB LSB	LSB
3PP_573	~	7	 1	40	11	0
RSP_573	Н	28	~-1	32	11	0



15	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	ABRPF	
14	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC	YAAC/YDAC /	YAAC/YDAC /	YAAC/YDAC /	
13	RPP '	, APP	RPP	CCP RPP	RPP	RPP	ВРР	ВРР		CCP RPP		RPP	ВРР	ЯРР	ЯРР	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN T
12	CCP	CCP	CCP		CCP	CCP	CCP	SCP	CCP RPP		CCP RPP	CCP	CCP	CCP	CWP CCP	
11	CWP	CWP	CWP	CWP	CWP	CWP	CWP	CWP	CWP	CWP	CWP	CWP	CWP	CWP		-
10	RPFRH	RPFRH	RPFRH	RPFRH	RPFRH	RPFRH	RPFRH	RPFRH	RPFRH	CCF RPFLH RPFRH	CCF RPFLH RPFRH	RPFLH RPFRH	RPFRH	RPFRH	RPFRH	
6	RPFLH	RPFLH	RPFLH	RPFLH	CCF RPFLH	RPFLH	RPFLH	RPFLH	CCF RPFLH	RPFLH	RPFLH	RPFLH	RPFLH	RPFLH	CCF RPFLH	The state of the s
80	CCF	CCF	CCF	CCF	SCF	CCF	CCF	CWF CCF	SCF		S	CCF	CCF	CCF	SCF	STREET, STREET
7	CWF	CWF	CWF	CWF	CWF	CWF	CWF	CWF	CWF	CWF	CWF	CWF	CWF	CWF	CWF	The same of the sa
9	MAS12VDCNEG	MAS12VDCPOS	MAS15VDCNEG CWF CCF RPFLH	MAS15VDCPOS CWF CCF RPFLH	MAS5VDCPOS CWF	MASIRIGSTAT	MASTERTEMP	REM12VDCNEG	REM12VDCPOS CWF	REM15VDCNEG CWF	REM15VDCPOS CWF	HEM5VDCPOS	REMIRIGSTAT	REMTEMP		
5	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	UTIME	
4	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	LOTIME	
က	HITIME	HITIME	HITIME	HITIME	HITIME	HTIME	HTIME	HITIME	HITIME	HITIME	HITIME	HITIME	HTIME	HITIME	HITIME	Contract of the Party of the Pa
7	SFID BCDDAYS HITIME LOTIME UTIME	2 SFID BCDDAYS HITIME LOTIME UTIME	SFID BCDDAYS HITIME LOTI	SFID BCDDAYS HITIME LOTI	SFID BCDDAYS HITIME LOTI	SFD BCDDAYS HITIME LOT	7 SFID BCDDAYS HITIME LOT	SFID BCDDAYS HITIME LOTI	9 SFID BCDDAYS HITIME LOTIME	10 SFID BCDDAYS HITIME LOTIME	BCDDAYS HITIME LOTI	BCDDAYS HITIME LOT	SFID BCDDAYS HITIME LOT	SFID BCDDAYS HITIME LOT	15 SFID BCDDAYS HITIME LOTIME	
-	SFID	SFID	SFID	SFID	SFID		SFD		SFD	SFID	11 SFID	SFID	SFID	SFID	SFID	-
Г	-	N	က	4	r2	ဖ	7	œ	6	9	=	12	13	14	15	



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21	GMT1101002	GMTDMS2	GMT_SEC/GMTHMS2	WHEELPOSBUS2	COMPAS2	MACH2			GMT1101002	GMTDMS2	GMT_SEC/GMTHMS2	WHEELPOSBUS2	COMPAS2	MACH2	THE CASE OF THE PROPERTY OF TH	
20	GMT1101001	GMTDMS1	3 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF GMT_HOURS/GMT_MIN/GMT_SEC/GMTHMS1 GMT_SEC/GMTHMS2	WHEELPOSBUS/WHEELPOSBUS1	CAS/COMPAS/COMPAS1	MACH/MACH1			GMT1101001	GMTDMS1	11 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF GMT_HOURS/GMT_MIN/GMT_SEC/GMTHMS1 GMT_SEC/GMTHMS2	WHEELPOSBUS/WHEELPOSBUS1	CAS/COMPAS/COMPAS1	MACH/MACH1		
19	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF	ABCCF
18	OH ABCWFCAPV ABCCF	ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	ABCWFCAPV	ABCWFCAPV	ABCWFFOH ABCWFCAPV ABCCF	ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	ABCWFCAPV	ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	ABCWFCAPV	ABCWFCAPV	ABCWFCAPV	ABCWFCAPV	ABCWFCAPV	ABCWFCAPV	ABCWFCAPV
17	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH	ABCWFFOH
16	ABCWFCAPH ABCWFF	ABCWFCAPH	ABCWFCAPH	4 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	ABCWFCAPH		7 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF		ABCWFCAPH	10 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	ABCWFCAPH	12 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	13 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	14 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	15 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF	16 ABCWFCAPH ABCWFFOH ABCWFCAPV ABCCF
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	MSN	MAP
	Ó	PCM
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GMT1101003 GMT1101004 GMT1101005 ALT/ALT1 ALT/ALT2 ALT3 ALT4 ALT5 GMTDMS3 GMTDMS4 GMTDMS5 BAROALT2 BAROALT2 BAROALT3 BAROALT4 BAROALT5 WHEELPOSBUS3 WHEELPOSBUS4 WHEELPOSBUS5 ALT/ALT1 ALT/ALT2 ALT3 ALT4 ALT5 MACH3 MACH4 MACH5 BAROALT1 BAROALT2 BAROALT3 BAROALT3 BAROALT4 BAROALT5 MACH3 MACH4 MACH5 BAROALT1 BAROALT2 BAROALT2 BAROALT3 BAROALT3 BAROALT4 BAROALT5 MACH3 MACH4 MACH5 BAROALT1 BAROALT2 BAROALT3 BAROALT3 BAROALT4 BAROALT5 MACH4 MACH5 BAROALT1 BAROALT2 BAROALT3 BAROALT3 BAROALT4 BAROALT5 WHEELPOSBUS3 WHEELPOSBUS5 ALT/ALT1 ALT/ALT2 ALT3 ALT4 ALT5 MACH3 MACH4 MACH5 BAROALT2 BAROALT3 BAROALT3 BAROALT4 BA		22	23	24	25	26	27	28	29
GMTDMS4 GMTDMS5 GMTHMS4 GMTHMS5 WHEELPOSBUS4 WHEELPOSBUS5 COMPAS4 COMPAS5 MACH4 MACH5 GMT1101004 GMT1101005 GMTDMS4 GMTDMS5 GMTHMS4 GMTDMS5 COMPAS4 COMPAS5 MACH4 MACH5	l '	GMT1101003	GMT1101004	GMT1101005	ALT/ALT1	ALT/ALT2	ALT3	ALT4	ALT5
GMTHMS4 GMTHMS5 WHEELPOSBUS4 WHEELPOSBUS5 COMPAS4 COMPAS5 MACH4 MACH5 GMT1101004 GMT1101005 GMTDMS4 GMTHMS5 COMPAS4 COMPAS5 COMPAS4 COMPAS5 MACH4 MACH5	-	GMTDMS3	GMTDMS4	GMTDMS5	BAROALT1	BAROALT2	BAROALT3	BAROALT4	BAROALT5
WHEELPOSBUS4 WHEELPOSBUS5 COMPAS4 COMPAS5 MACH4 MACH5 GMT1101004 GMT1101005 GMTDMS4 GMTHMS5 GMTHMS4 GMTHMS5 COMPAS4 COMPAS5 MACH4 MACH5	~	GMTHMS3	GMTHMS4	GMTHMS5					
COMPAS4 COMPAS5 MACH4 MACH5 GMT1101004 GMT1101005 GMTDMS4 GMTDMS5 GMTHMS4 GMTHMS5 COMPAS4 COMPAS5 MACH4 MACH5	-	WHEELPOSBUS3	WHEELPOSBUS4	WHEELPOSBUS5					
MACH4 MACH5 MACH5 GMT1101005 GMTDMS4 GMTDMS5 GMTHMS5 GMTHMS5 COMPAS4 COMPAS5 MACH4 MACH5 COMPAS5 COMPAS4 COMPAS5 COMPAS4 COMPAS5 COMPAS4 COMPAS5 COMPAS4 COMPAS5 C		COMPAS3	COMPAS4	COMPAS5	ALT/ALT1	ALT/ALT2	ALT3	ALT4	ALT5
GMT1101004 GMT1101005 GMTDMS4 GMTDMS5 GMTHMS4 GMTHMS5 WHEELPOSBUS4 WHEELPOSBUS5 COMPAS4 COMPAS5 MACH4 MACH5	10	MACH3	MACH4	MACH5	BAROALT1	BAROALT2	BAROALT3	BAROALT4	BAROALT5
GMT1101004 GMT1101005 GMTDMS4 GMTDMS5 GMTHMS4 GMTHMS5 WHEELPOSBUS4 WHEELPOSBUS5 COMPAS4 COMPAS5 MACH4 MACH5			-						
GMT1101004 GMT1101005 GMTDMS4 GMTDMS5 GMTHMS4 GMTHMS5 S3 WHEELPOSBUS4 WHEELPOSBUS5 COMPAS4 COMPAS5 MACH4 MACH5	~							NATIONAL PROGRAMMENT CONTRACTOR OF TRACTOR O	
GMTDMS4 GMTDMS5 GMTHMS4 GMTHMS5 WHEELPOSBUS4 WHEELPOSBUS5 COMPAS4 COMPAS5 MACH4 MACH5	-	GMT1101003	GMT1101004	GMT1101005	ALT/ALT1	ALT/ALT2	ALT3	ALT4	ALT5
GMTHMS4 GMTHMS5 WHEELPOSBUS4 WHEELPOSBUS5 COMPAS4 COMPAS5 MACH4 MACH5	0	GMTDMS3	GMTDMS4	GMTDMS5	BAROALT1	BAROALT2	BAROALT3	BAROALT4	BAROALT5
WHEELPOSBUS4 WHEELPOSBUS5 COMPAS4 COMPAS5 MACH4 MACH5	_	GMTHMS3	GMTHMS4	GMTHMS5					
COMPAS3 COMPAS4 COMPAS5 MACH3 MACH4 MACH5	N	WHEEL POSBUS3	WHEELPOSBUS4						
MACH3 MACH4 MACH5	3		COMPAS4	COMPAS5	ALT/ALT1	ALT/ALT2	ALT3	ALT4	ALT5
22	4	MACH3	MACH4	MACH5	BAROALT1	BAROALT2	BAROALT3	BAROALT4	BAROALT5
•	5								
9	9								



	30	31	32	33	34	35
g-m	AILPOLHSDAC/AILPOLHSDAC:	AILPOLHSDAC2	AILPOLHSDAC3	AILPOLHSDAC4	AILPOLHSDAC5	YAWRATE/YAWRATE1
N	AILPORHSDAC/AILPORHSDAC1	AILPORHSDAC2	AILPORHSDAC3	AILPORHSDAC4	AILPORHSDAC5	AILPORHSDAC5 YAWRATE/YAWRATE1
က	ELEVPOSSDAC/ELEVPOSSDAC1	ELEVPOSSDAC2	ELEVPOSSDAC3	ELEVPOSSDAC4	ELEVPOSSDAC5	ELEVPOSSDAC5 YAWRATE/YAWRATE1
4	HYDPRESSBLU/HYDPRESSBLU1	HYDPRESSBLU2	HYDPRESSBLU3	HYDPRESSBLU4	HYDPRESSBLU5	HYDPRESSBLU5 YAWRATE/YAWRATE1
വ	HYDPHESSGRN/HYDPRESSGRN1	HYDPRESSGRN2	HYDPRESSGRN3	HYDPRESSGRN4	HYDPRESSGRN5	YAWRATE/YAWRATE1
ဖ	HYDPRESSYLW/HYDPRESSYLW1	HYDPRESSYLW2	HYDPRESSYLW3	HYDPRESSYLW4	HYDPRESSYLW5	YAWRATE/YAWRATE1
^	RSPSDAC/RSPSDAC1	RSPSDAC2	RSPSDAC3	RSPSDAC4	RSPSDAC5	YAWRATE/YAWRATE1
ω	STABPOSSDAC/STABPOSSDAC1	STABPOSSDAC2	STABPOSSDAC3	STABPOSSDAC4	STABPOSSDAC5	STABPOSSDAC5 YAWRATE/YAWRATE1
6	AILPOLHSDAC/AILPOLHSDAC1	AILPOLHSDAC2	AILPOLHSDAC3	AILPOLHSDAC4	AILPOLHSDAC5	YAWRATE/YAWRATE1
10	AILPORHSDAC/AILPORHSDAC1	AILPORHSDAC2	AILPORHSDAC3	AILPORHSDAC4	AILPORHSDAC5	YAWRATE/YAWRATE1
Ξ	ELEVPOSSDAC/ELEVPOSSDAC1	ELEVPOSSDAC2	ELEVPOSSDAC3	ELEVPOSSDAC4	ELEVPOSSDAC5	YAWRATE/YAWRATE1
12	HYDPRESSBLU/HYDPRESSBLU1	HYDPRESSBLU2	HYDPRESSBLU3	HYDPRESSBLU4	HYDPRESSBLU5	HYDPRESSBLU5 YAWRATE/YAWRATE1
13	13 HYDPRESSGRN/HYDPRESSGRN1 HYDPRESSGRN2	HYDPRESSGRN2	HYDPRESSGRN3 HYDPRESSGRN4	HYDPRESSGRN4	HYDPRESSGRN5	HYDPRESSGRN5 YAWRATE/YAWRATE1
14	14 HYDPRESSYLW/HYDPRESSYLW1	HYDPRESSYLW2	HYDPRESSYLW3	HYDPRESSYLW3 HYDPRESSYLW4	HYDPRESSYLW5	HYDPRESSYLW5 YAWRATE/YAWRATE1
15	RSPSDAC/RSPSDAC1	RSPSDAC2	RSPSDAC3	RSPSDAC4	RSPSDAC5	YAWRATE/YAWRATE1
16	STABPOSSDAC/STABPOSSDAC1	STABPOSSDAC2	STABPOSSDAC3	STABPOSSDAC4	STABPOSSDAC5	STABPOSSDAC5 YAWRATE/YAWRATE1



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



	43	44	45	46	47	48	49
-	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
7	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
က	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
4	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
5	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
ဖ	YAWSTABCMD4	YAWSTABCMD4 YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
/	YAWSTABCMD4 YAWSTABCMD5	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
ω	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
တ	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	9 YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
10	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	10 YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
F	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	11 YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
12	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	12 YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
13	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	13 YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
14	14 YAWSTABCMD4 YAWSTABCMD5	YAWSTABCMD5	1	AILPOSRHANLG	YAWCMDFACOUT	AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
15	15 YAWSTABCMD4 YAWSTABCMD5	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACOUT	AILPOSLHANLG AILPOSRHANLG YAWCMDFACOUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT
16	YAWSTABCMD4	YAWSTABCMD5	AILPOSLHANLG	AILPOSRHANLG	YAWCMDFACCUT	16 YAWSTABCMD4 YAWSTABCMD5 AILPOSLHANLG AILPOSRHANLG YAWCMDFACCUT YAWPOSFACOUT YAWSERFCCOUT	YAWSERFCCOUT



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	50	51	52	53	54	22	99
	VARSTPACTPOS/VARSTPACTTRVL	POTPWR		HITIMEREM	LOTIMEREM	UTIMEREM	HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
	2 VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
	VARSTPACTPOS/VARSTPACTTRVL RDRTRVLFLC1 FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1	RDRTRVLFLC1	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
	VARSTPACTPOS/VARSTPACTTRVL RDRTRVLFLC2 FUNGEN HITIMEREM LOTIMEREM UTIMEREM	RDRTRVLFLC2	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	MODYAWRATE/MODYAWRATE1
2	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
_	VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
	8 VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
	9 VARSTPACTPOS/VARSTPACTTRVL	POTPWR	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
$\overline{}$	10 VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
	11 VARSTPACTPOS/VARSTPACTTRVL RDRTRVLFLC1	RDRTRVLFLC1	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
O.	12 VARSTPACTPOS/VARSTPACTTRVL RD	RDRTRVLFLC2	FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	DRTRVLFLC2 FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
m	13 VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
-	14 VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
10	15 VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1
	16 VARSTPACTPOS/VARSTPACTTRVL		FUNGEN	HITIMEREM	LOTIMEREM	UTIMEREM	FUNGEN HITIMEREM LOTIMEREM UTIMEREM MODYAWRATE/MODYAWRATE1



1	57	28	29	09	61	62	63	64
1	MODYAWRATE2	MODYAWRATE3	1 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
1-	MODYAWRATE2	MODYAWRATE3	2 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
	MODYAWRATE2	MODYAWRATE3	3 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
t	MODY AWRATE2	MODYAWRATE3	4 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME SYNC	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
2	MODYAWRATE2 MODY	MODYAWRATE3	/AWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME SYNC	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
ဖ	MODYAWRATE2	MODYAWRATE2 MODYAWRATE3		MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
1	7 MODYAWRATE2 MODY	MODYAWRATE3	/AWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
œ	MODYAWRATE2	MODYAWRATE3	MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
	MODYAWRATE2	MODYAWRATE3	9 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME SYNC	MODYAWRATE5	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
0	MODYAWRATE2	MODYAWRATE3	10 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME SYNC	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
-	MODYAWRATE2	MODYAWRATE3	11 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME SYNC	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
N	MODYAWRATE2	12 MODYAWRATE2 MODYAWRATE3	MODYAWRATE4	MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
3	MODYAWRATE2	MODYAWRATE3	13 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
T.	MODYAWRATE2	MODYAWRATE3	14 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
1C	MODYAWRATE2	MODYAWRATE3	15 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME SYNC	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC
9	MODYAWRATE2	MODYAWRATE3	16 MODYAWRATE2 MODYAWRATE3 MODYAWRATE4 MODYAWRATE5 ELEVPOSANLG RDRPOSANLG FRAME SYNC	MODYAWRATES	ELEVPOSANLG	RDRPOSANLG	FRAME	SYNC



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-	A717WORD0000	A717WORD0001	ORD0000 A717WORD0001 A717WORD0002 A717WORD0003 A717WORD0004 A717WORD0005	A717WORD0003	A717WORD0004	A717WORD0005
7	A717WORD0000	A717WORD0001	VORD0000 A717WORD0001 A717WORD0002 A717WORD0003 A717WORD0004 A717WORD0005	A717WORD0003	A717WORD0004	A717WORD0005
3	A717WORD0000	A717WORD0001	JORD0000 A717WORD0301 A717WORD0002 A717WORD0003 A717WORD0004 A717WORD0005	A717WORD0003	A717WORD0004	A717WORD0005
4	A717WORD0000	A717WORD0301	ORD0000 A717WORD0001 A717WORD0002 A717WORD0003 A717WORD0005	A717WORD0003	A717WORD0004	A717WORD0005



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-	A717WORD0006/A717WORD0045/RPP_573	A717WORD0007	ID0006/A717WORD0048/RPP_573 A717WORD0007 A717WORD0008/A717WORD0041/ELEVP 573
7	A717WORD0006/A717WORD0045/RPP_573	A717WORD0007	3D0006/A717WORD0048/RPP_573 A717WORD0007 A717WORD0008/A717WORD0041/ELEVP_573
က	A717WORD0006/A717WORD0046/RPP_573	A717WORD0007	ID0006/A717WORD0046/RPP_573 A717WORD0007 A717WORD0008/A717WORD0041/ELEVP 573
4	A717WORD0006/A717WORD0046/RPP 573	A717WORD0007	D0006/A717WOBD0048/BPP 573 A717WOBD0007 A717WOBD0008/A717WOBD0041/EI EV/P E73



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	2	-	1	2	<u>-</u>	2
	A717WORD0009/AILPOS_LH_573	_LH_573 A717WORD0010 A717WORD0011 A717WORD0012 A717WORD0013 A717WORD0014	A717WORD0011	A717WORD0012	A717WORD0013	A717WORD0014
7	A717WORD0009/AILPOS_LH_573	LH_573 A717WORD0010 A717WORD0011 A717WORD0012 A717WORD0013 A717WORD0014	A717WORD0011	A717WORD0012	A717WORD0013	A717WORD0014
က	A717WORD0009/AILPOS_LH_573	_LH_573 A717WORD0010 A717WORD0011 A717WORD0012 A717WORD0013 A717WORD0014	A717WORD0011	A717WORD0012	A717WORD0013	A717WORD0014
4	A717WORD0009/AILPOS LH 573	LH 573 A717WORD0010 A717WORD0011 A717WORD0012 A717WORD0013 A717WORD0014	A717WORD0011	A717WORD0012	A717WORD0013	A717W0RD0014



	16	17	18	6	20	21
-	A717WORD0015	A717WORD0016	A717WORD0017	A717WORD0018	VORD0015 A717WORD0016 A717WORD0017 A717WORD0018 A717WORD0019 A717WORD0020	A717WORD0020
7	A717WORD0015	A717WORD0016	A717WORD0017	A717WORD0018	VORD0015 A717WORD0016 A717WORD0017 A717WORD0018 A717WORD0019 A717WORD0020	A717WORD0020
က	A717WORD0015	A717WORD0016	A717WORD0017	A717WORD0018	VORD0015 A717WORD0016 A717WORD0017 A717WORD0018 A717WORD0019 A717WORD0020	A717WORD0020
4	A717WORD0015	A717WORD0016	A717WORD0017	A717WORD0018	JORDO015 A717WORD0016 A717WORD0017 A717WORD0018 A717WORD0019 A717WORD0020	A717WORD0020



	22	23	24	25	26	27
-	A717WORD0021/CWP_573	CWP_573 A717WORD0022 A717WORD0023 A717WORD0024 A717WORD0025 A717WORD0026	A717WORD0023	A717WORD0024	A717WORD0025	A717WORD0026
2	A717WORD0021/CWP_573	CWP_573 A717WORD0022 A717WORD0023 A717WORD0024 A717WORD0025 A717WORD0026	A717WORD0023	A717WORD0024	A717WORD0025	A717WORD0026
3	A717WORD0021/CWP_573	CWP_573 A717WORD0022 A717WORD0023 A717WORD0024 A717WORD0025 A717WORD0026	A717WORD0023	A717WORD0024	A717WORD0025	A717WORD0026
4	A717WORD0021/CWP 573	CWP 573 A717WOBD0029 A717WOBD0023 A717WOBD0024 A717WOBD0025 A717WOBD0026	A717WORD0023	A717WORD0024	A717WORD0025	A717WORD0026



	28	29	30	31	32
-	A717WORD0027/A717WORD0059/RSP_573 A717WORD0028/CCP_573 A717WORD0029 A717WORD0030 A717WORD0031	A717WORD0028/CCP_573	A717WORD0029	A717W0RD0030	A717WORD0031
7	A717WORD0027/A717WORD0059/RSP_573 A717WORD0028/CCP_573 A717WORD0029 A717WORD0030 A717WORD0031	A717WORD0028/CCP_573	A717WORD0029	A717WORD0030	A717WORD0031
က	A717WORD0027/A717WORD0059/RSP_573 A717WORD0028/CCP_573 A717WORD0029 A717WORD0030 A717WORD0031	A717WORD0028/CCP_573	A717WORD0029	A717WORD0030	A717WORD0031
4	A717WORD0027/A717WORD0059/RSP 573 A717WORD0028/CCP 573 A717WORD0039 A717WORD0030 A717WORD0031	A717WORD0028/CCP 573	A717WORD0029	A717WORD0030	A717WORD0031



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	33	34	35	36	37	38	39
-	A717WORD0032 A717WC	A717WORD0033	ORD0033 A717WORD0034 A717WORD0035 A717WORD0036 A717WORD0037 A717WORD0038	A717WORD0035	A717WORD0036	A717WORD0037	A717WCRD0038
2	A717WORD0032 A717WO	A717WORD0033	ORD0033 A717WORD0034 A717WORD0035 A717WORD0036 A717WORD0037 A717WORD0038	A717WORD0035	A717WORD0036	A717WORD0037	A717WORD0038
က	A717WORD0032 A717WC	A717WORD0033	DRD0033 A717WORD0034 A717WORD0035 A717WORD0036 A717WORD0037 A717WORD0038	A717WORD0035	A717WORD0036	A717WORD0037	A717WORD0038
4	A717WORD0032 A717W	5	2BD0033 A717WORD0034 A717WORD0035 A717WORD0036 A717WORD0037 A717WORD0038	A717WORD0035	A717WORD0036	A717WORD0037	A717W0RD0038



	40	41	42	43
-	A717WORD0039	A717WORD0040/AILPOS_RH_573	7717WORD0040/AILPOS_RH_573 A717WORD0008/A717WORD0041/ELEVP_573 A717WORD0042	A717WORD0042
7	A717WORD0039	A717WORD0040/AILPOS_RH_573	A717WORD0040/AILPOS_RH_573 A717WORD0008/A717WORD0041/ELEVP_573 A717WORD0042	A717WORD0042
က	A717WORD0039	A717WORD0040/AILPOS_RH_573	7717WORD0040/AILPOS_RH_573 A717WORD0008/A717WORD0041/ELEVP_573 A717WORD0042	A717WORD0042
4	A717WORD0039	A717WORD0040/AILPOS RH 573	717WOBD0040/AILPOS BH 573 A717WOBD0008/A717WOBD0041/ELEVP 573 A717WOBD0042	A717WORD0042



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	44	45	46	47	48	49
 -	A717WORD0043	A717WORD0043 A717WORD0044	A717WORD0045	. A717WORD0045 A717WORD0006/A717WORD0046/RPP_573 A717WORD0047 A717WORD0048	A717WORD0047	A717WORD0048
2	A717WORD0043	A717WORD0043 A717WORD0044	A717WORD0045	A717WORD0045 A717WORD0006/A717WORD0046/RPP_573 A717WORD0047 A717WORD0048	A717WORD0047	A717WORD0048
3	A717WORD0043	A717WORD0043 A717WORD0044	A717WORD0045	1 A717WORD0045 A717WORD0006/A717WORD0046/RPP_573 A717WORD0047 A717WORD0048	A717WORD0047	A717WORD0048
4	A717WOBD0043	A717WORD0043 A717WORD0044	A717WORD0045	A717WORD0045 A717WORD0006/A717WORD0046/RPP 573 A717WORD0047 A717WORD0048	A717WORD0047	A717WORD0048



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ì	20	51	52	53	54	55	96
-	A717WORD0049 A717WO	A717WORD0050	A717WORD0051	ORD0050 A717WORD0051 A717WORD0052 A717WORD0053 A717WORD0054 A717W0RD0055	A717WORD0053	A717WORD0054	A717WORD0055
2	A717WORD0049	A717WORD0050	A717WORD0051	A717WORD0049 A717WORD0050 A717WORD0051 A717WORD0052 A717WORD0053 A717WORD0054 A717WORD0055	A717WORD0053	A717WORD0054	A717WORD0055
က	A717WORD0049	A717WORD0050	A717WORD0051	A717WORD0049 A717WORD0050 A717WORD0051 A717WORD0052 A717WORD0053 A717WORD0054 A717WORD0055	A717WORD0053	A717WORD0054	A717WORD0055
4	A717WORD0049	A717WORD0050	A717WORD0051	4717WORD0053 A717WORD0051 A717WORD0055 A717WORD0053 A717WORD0055	A717WORD0053	A717WORD0054	A717WORD0055



	57	28	29	09	61	62
-	A717WORD0056	1717WORD0056 A717WORD0057	A717WORD0058	717WORD0058 A717WORD0027/A717WORD0059/RSP_573 A717WORD0060 A717WORD0061	A717WORD0060	A717WORD0061
2	A717WORD0056	V717WORD0056 A717WORD0057	A717WORD0058	A717WORD0058 A717WORD0027/A717WORD0059/RSP_573 A717WORD0060 A717WORD0061	A717WORD0060	A717WORD0061
က	A717WORD0056	717WORD0056 A717WORD0057	A717WORD0058	- A717WORD0058 A717WORD0027/A717WORD0059/RSP_573 A717WORD0060 A717WORD0061	A717WORD0060	A717WORD0061
4	A717WORD0056	717WORD0056 A717WORD0057	A717WORD0058	A717WORD0058 A717WORD0027/A717WORD0059/RSP 573 A717WORD0060 A717WORD0061	A717WORD0060	A717WORD0061



	63	64	65
_	A717WORD0062 A717WORD0063 A717WORD0064	A717WORD0063	A717WORD0064
7	A717WORD0062 A717WORD0063 A717WORD0064	A717WORD0063	A717WORD0064
က	A717WORD0062 A717WORD0063 A717WORD0064	A717WORD0063	A717WORD0064
4	A717WORD0062 A717WORD0063 A717WORD0064	A717WORD0063	A717WORD0064

Card: RCI-105 Short Name: BCDDAYS Long Name: BCD DAYS Parameter Data Word: BCD Days me Code Read Mode: Sample Only inimum 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 : 68.00000 Card: RCI-105 Short Name: MAS12VDCNEG Long Name: MASTER - 12 V POWER SUPPLY rameter Data Word: -12V Supply Status me 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 arameter Data Word: +15V Supply Status
me Code Read Mode: Sample Of

Animum 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: RCT-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

REPORT NO. TAP 01-05-533 Card: SCD-108S-1 Short Name: CCP Long Name: CONTROL COLUMN POSITION lias: COLUMNPOS tes: INPUT TO DFDAU nannel: 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 tput Format: Straight Binary imary 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

Sampling Mode: Sequential Minimum Sample Rate: 30 Stual Sample Rates:

Format 1 : 68.000000

Offset: -50.000000 Trim Counts: 0

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

Sampling Mode: Sequential

Format 1 : 68.00000

Minimum Sample Rate: 68

Actual Sample Rates:

IES PARAMETER SETUP REPORT NO. TAP 01-05-533 Card: SCD-108S-1 Card: SCD-108S-1 Short Name: ABCWFCAPV Short Name: RPP Long Name: CPT WHEEL FORCE (VERTICAL) Long Name: RUDDER PEDAL POSITION Notes: AIRBUS lias: RDRPEDPOS Channel: 7 tes: INPUT TO DFDAU Range Low: -4.99878 hannel: 8 Range High: 4.99878 Range Low: 0 Cutoff Frequency (for channel): 14 Range High: 3.99902 Sample Error: 0.004096 Cutoff Frequency (for channel): 14 Sample Error: 0.004874 Output Format: Straight Binary Output Format: Straight Binary Primary Gain: 1 Secondary Gain: 1.000244 Primary Gain: 1 Secondary Gain: 2.500611 Offset: 0.000000 Trim Counts: 0 Offset: -50.000000 Sampling Mode: Sequential Trim Counts: 0 Minimum Sample Rate: 70 Sampling Mode: Sequential Actual Sample Rates: Minimum Sample Rate: 68 Format 1: 68.000000 Actual Sample Rates: Format 1: 68.000000 Card: SCD-108S-1 Short Name: ABCWFFOH Card: SCD-108S-1 Long Name: F/O WHEEL FORCE (HORIZONTAL) Short Name: ABCCF Notes: AIRBUS Long Name: CPT CTL FORCE Channel: 6 Notes: AIRBUS Range Low: -4.99878 Channel: 8 Range High: 4.99878 Range Low: -4.99878 Cutoff Frequency (for channel): 14 Range High: 4.99878 Sample Error: 0.03083 Cutoff Frequency (for channel): 14 Output Format: Straight Binary Sample Error: 0.0041 Output Format: Straight Binary Primary Gain: 1 Secondary Gain: 1.000244 rimary Gain: 1 condary Gain: 1.000244 Offset: 0.000000 Offset: 0.000000 Trim Counts: 0 Sampling Mode: Sequential Trim Counts: 0 Minimum Sample Rate: 50 Sampling Mode: Sequential Actual Sample Rates: Minimum Sample Rate: 70 Format 1 : 68.000000 Actual Sample Rates: Format 1 : 68.000000 Card: SCD-108S-1 Short Name: ABRPF Card: SCD-108S-1 Long Name: YAW CONTROL FORCE Short Name: ABCWFCAPH Notes: AIRBUS Long Name: CPT WHEEL FORCE (HORIZONTAL) Channel: 4 Notes: AIRBUS Range Low: -4.99878 Channel: 5 Range High: 4.99878 Range Low: -4.99878 Range High: 4.99878 Cutoff Frequency (for channel): 14 Cutoff Frequency (for channel): 14 Sample Error: 0.004096 Output Format: Straight Binary Sample Error: 0.004874 Primary Gain: 1 Output Format: Straight Binary Secondary Gain: 1.000244 Primary Gain: 1 Offset: 0.000000 Secondary Gain: 1.000244 Trim Counts: 0 Offset: 0.000000 Sampling Mode: Sequential Trim Counts: 0

Minimum Sample Rate: 70

Format 1 : 68.000000

Actual Sample Rates:

Card: SCD-108S-1
Short Name: FACC

ong Name: FLT AUG COMPUTER COMMAND

ESTBOX)
Aias: 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

tput Format: Straight Binary

imary 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 tual 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

ong Name: L/H AILERON POSITION SDAC

ias: AILPOSLHSDAC

nannel: 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

ias: AILPOSRHSDAC

annel: 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: SD1 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

ong Name: ALTITUDE COARSE & FINE

ias: ALTITUDE otes: ADC Channel: 3

Data Component: Read Residual Data

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

Data Component: Read Residual Data

Label Selection: SDI Bits are Don't Care

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 ort Name: ALT5

ong Name: ALTITUDE COARSE & FINE

Alias: ALTITUDE Notes: ADC Channel: 3

Data Component: Read Residual Data

Label Selection: SDI Bits are Don't Care

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 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 Dala

Label Selection: SDI Bits are Don't Care

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

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

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 Number: Octal Label Number Base: 204 Minimum Sample Rate: 16 Actual Sample Rates:

Format 1: 17.000000

Card: BIM-429-4
Short Name: COMPAS1

ong Name: COMPUTED AIRSPEED

ias: CAS otes: 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 ort Name: COMPAS3

ng 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

Format 1 : 8.000000

ctual Sample Rates:

Format 1 : 8.000000

Card: BIM-429-4 Card: BIM-429-4 Short Name: GMT1101004 Short Name: **ELEVPOSSDAC4** Channel: 1 ong Name: ELEVATOR POSITION SDAC Data Component: Read Residual Data ias: ELEVPOSSDAC Label Selection: SDI Bits are Don't Care hannel: 5 Label Number: Octal Data Component: Read Residual Data Label Number Base: 125 Label Selection: SDI 0 Minimum Sample Rate: 1 Label Number: Octal Actual Sample Rates: Label Number Base: 314 Format 1: 8.000000 Minimum Sample Rate: 8 Actual Sample Rates: Card: BIM-429-4 Format 1 : 8.000000 Short Name: GMT1101005 Card: BIM-429-4 Channel: 1 Data Component: Read Residual Data Short Name: **ELEVPOSSDAC5** Label Selection: SDI Bits are Don't Care Long Name: ELEVATOR POSITION SDAC Label Number: Octal Alias: ELEVPOSSDAC Label Number Base: 125 Channel: 5 Minimum Sample Rate: 1 Data Component: Read Residual Data Actual Sample Rates: Label Selection: SDI 0 Format 1: 8.000000 Label Number: Octal Label Number Base: 314 Card: BIM-429-4 Minimum Sample Rate: 8 Short Name: GMTDmS1 Actual Sample Rates: Long Name: GMT (DAYS, MILLISEC) Format 1 : 8.000000 Channel: 1 Data Component: Sample MSB Data Card: BIM-429-4 Label Selection: SDI Bits are Don't Care Short Name: GMT1101001 Channel: 1 Label Number: Octal ata Component: Sample MSB Data abel Selection: SDI Bits are Don't Care Label Number Base: 260 Minimum Sample Rate: 1 Label Number: Octal Actual Sample Rates: Format 1: 8.000000 Label Number Base: 125 Minimum Sample Rate: 1 Card: BIM-429-4 Actual Sample Rates: Short Name: GMTDmS2 Format 1 : 8.000000 Long Name: GMT (DAYS, MILLISEC) Channel: 1 Card: BIM-429-4 Data Component: Read Residual Data Short Name: GMT1101002 Label Selection: SDI Bits are Don't Care Channel: 1 Label Number: Octal Data Component: Read Residual Data Label Number Base: 260 Label Selection: SDI Bits are Don't Care Minimum Sample Rate: 1 Label Number: Octal Actual Sample Rates: Label Number Base: 125 Format 1 : 8.000000 Minimum Sample Rate: 1 Actual Sample Rates: Card: BIM-429-4 Format 1 : 8.000000 Short Name: GMTDmS3 Long Name: GMT (DAYS, MILLISEC) Card: BIM-429-4 Channel: 1 Short Name: GMT1101003 Data Component: Read Residual Data Channel: 1 Label Selection: SDI Bits are Don't Care Data Component: Read Residual Data Label Number: Octal Label Selection: SDI Bits are Don't Care Label Number Base: 260 Label Number: Octal Minimum Sample Rate: 1 Label Number Base: 125 Actual Sample Rates: Minimum Sample Rate: 1

```
Card: BIM-429-4
                                                Card: BIM-429-4
Short Name: GMTDmS4
                                                Short Name: GMTHMS4
Long Name: GMT (DAYS, MILLISEC)
                                               Long Name: GMT (HOURS, MIN, SEC)
Channel: 1
                                               Channel: 1
                                               Data Component: Read Residual Data
  ta Component: Read Residual Data
 abel Selection: SDI Bits are Don't Care
                                              Label Selection: SDI Bits are Don't Care
Label Number: Octal
                                               Label Number: Octal
Label Number Base: 260
                                               Label Number Base: 150
Minimum Sample Rate: 1
                                               Minimum Sample Rate: 1
                                               Actual Sample Rates:
Actual Sample Rates:
                                                      Format 1: 8.000000
      Format 1: 8.000000
Card: BIM-429-4
                                               Card: BIM-429-4
Short Name: GMTDmS5
                                               Short Name: GMTHMS5
Long Name: GMT (DAYS, MILLISEC)
                                               Long Name: GMT (HOURS, MIN, SEC)
Channel: 1
                                               Channel: 1
Data Component: Read Residual Data
                                               Data Component: Read Residual Data
                                               Label Selection: SDI Bits are Don't Care
Label Selection: SDI Bits are Don't Care
                                               Label Number: Octal
Label Number: Octal
                                               Label Number Base: 150
Label Number Base: 260
Minimum Sample Rate: 1
                                               Minimum Sample Rate: 1
Actual Sample Rates:
                                               Actual Sample Rates:
                                                     Format 1 : 8.000000
      Format 1 : 8.000000
Card: BIM-429-4
                                               Card: BIM-429-4
Short Name: GMTHMS1
                                               Short Name: HYDPRESSBLU1
Long Name: GMT (HOURS, MIN, SEC)
                                               Long Name: HYDRAULIC PRESSURE - BLUE
                                               Alias: HYD PRESS BLUE
Channel: 1
Data Component: Sample MSB Data
                                               Channel: 5
Label Selection: SDI Bits are Don't Care
                                               Data Component: Sample MSB Data
 abel Number: Octal
                                               Label Selection: SDI 1
  bel Number Base: 150
                                               Label Number: Octal
Minimum Sample Rate: 1
                                               Label Number Base: 174
Actual Sample Rates:
                                               Minimum Sample Rate: 8
      Format 1 : 8.000000
                                               Actual Sample Rates:
                                                     Format 1 : 8.000000
Card: BIM-429-4
Short Name: GMTHMS2
                                               Card: BIM-429-4
Long Name: GMT (HOURS, MIN, SEC)
                                               Short Name: HYDPRESSBLU2
Channel: 1
                                               Long Name: HYDRAULIC PRESSURE - BLUE
                                               Alias: HYD PRESS BLUE
Data Component: Read Residual Data
                                               Channel: 5
Label Selection: SDI Bits are Don't Care
Label Number: Octal
                                               Data Component: Read Residual Data
Label Number Base: 150
                                               Label Selection: SDI 3
Minimum Sample Rate: 1
                                               Label Number: Octal
Actual Sample Rates:
                                               Label Number Base: 315
     Format 1 : 8.000000
                                               Minimum Sample Rate: 8
                                               Actual Sample Rates:
Card: BIM-429-4
                                                     Format 1 : 8.000000
Short Name: GMTHMS3
Long Name: GMT (HOURS, MIN, SEC)
                                               Card: BIM-429-4
Channel: 1
                                               Short Name: HYDPRESSBLU3
Data Component: Read Residual Data
                                               Long Name: HYDRAULIC PRESSURE - BLUE
Label Selection: SDI Bits are Don't Care
                                               Alias: HYD PRESS BLUE
Label Number: Octal
                                               Channel: 5
Label Number Base: 150
                                               Data Component: Read Residual Data
                                               Label Selection: SDI 3
Minimum Sample Rate: 1
 ctual Sample Rates:
                                               Label Number: Octal
                                               Label Number Base: 315
      Format 1 : 8.000000
                                               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

nannel: 5

ata 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

hannel: 5

ta 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

Tabel Selection: SDI 1
bel Number: Octal
abel 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

annel: 5

ata 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

hannel: 5

ta 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:

3

Format 1 : 8.000000

REPORT NO. TAP 01-05-533 Card: BIM-429-4 Short Name: Mod_YAWRate1 Long Name: Modified YAW Rate 1 Alias: Mod YAWRate annel: 6 ta 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

nannel: 6

ta 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 : 68.00000

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

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

Data Component: Read Residual Data

Label Selection: SDI 0 Tabel Selection: SDI Bits are Don't Care

Label Number: Octal

Label Number Base: Minimum Sample Rate 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

annel: 5

ta 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

hannel: 5

ta 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
bel Number Base: 315
Inimum 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 ias: YAW RATE 1

tes: 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 nort Name: YAWRATE3 ng 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 Minimum Sample Rate: 64
Label Selection: SDI Bits are Don't Care Actual Sample Rates:

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: 68.00000

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

Format 1: 68.000000

Card: BIM-429-4

Short Name: YAWSTABCMD4

Long Name: YAW STAB COMMAND 1

Channel: 7

ta Component: Read Residual Data

bel 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 pan: Channel 1

de: Synchro \$1/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 \$1/S3: Normal Ifset: 0.000000

Animum 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 : 68.00000

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 : 68.00000

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

REPORT NO. TAP 01-05-533 Card: SCD-108S-1 Short Name: VARSTPACTPOS Long Name: VARIABLE STOP ACTUATOR POSITION ias: VAR STP ACT POS annel: 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 im Counts: 0 mpling 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

Format 1 : 68.00000

Actual Sample Rates:

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 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

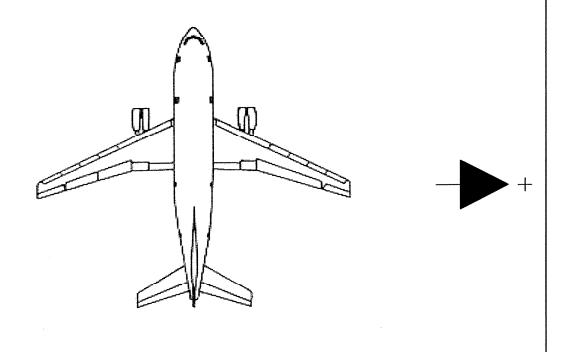
ITEM	PAGE
PARAMETER COEFFICIENTS	.IV-3
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L/H AILERON POSITION	.IV-6
R/H AILERON POSITION	.IV-7
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CONTROL WHEEL FORCE	IV-10
CONTROL WHEEL POSITION	IV-11
ELEVATOR POSITION	IV-12
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RUDDER PEDAL POSITION	IV-16
YAAC / YDAC	IV-17

 MITH	ONL
	EFFES
PARAME	FFICI
PAF	COE

Name	Description	EU UNITS	nigi varue	LOW VAIDE	LO COLIVEI SION 1 SPE	00	5
ABCCF	CPT CTL FORCE	LBS	ß	τċ	COE	-9.2059625881E+02	
ABCWFCAPH	CPT WHEEL FORCE (HORIZONTAL)	LBS	2	τ̈́	COE	-6.90447194C0E+02	
ARCWECAPY	CPT WHEEL FORCE (VERTICAL)	LBS	5	rὑ	COE	-5.12002048C0E+00	2.5000100000E-J3
ABCWFFOH	F/O WHEEL FORCE (HORIZONTAL)	LBS	5	ť	COE	-6.90447194C0E+02	3.3713241900E-01
ABRPF	YAW CONTROL FORCE	LBS	450	-450	COE	-4.60298129C0E+02	2.2475494600E-01
All POLHSDAC	L/H AILERON POSITION SDAC	DEG'S	80	-180	COE	0.0000000000E+00	8.7912000000E-32
AILPORHSDAC		DEG'S	.80	-180	COE	0.0000000000E+00	8.7912000000E-32
ALT	ALTITUDE FINE	FEET	4095	0	COE	0.0000000000E+00	1.0000000000E+00
BAROALT1	BAROMETRIC ALTITUDE	COUNTS	65535	0	COE	0.000000000E+00	1.0000000000E+00
BCDDAYS	BCD DAYS	COUNTS	65535	0	COE	0.0000000000E+00	1.000000000E+00
CAS	COMPUTED AIRSPEED	KNOTS	1024	0	COE	0.0000000000E+00	2.5000000000E-01
CAS (COMPAS)	COMPLITED AIRSPEED	KNOTS	1024	0	COE	0.0000000000E+00	2.5000000000E-01
FIVE SSUACE	FI EVATOR POSITION SDAC	DEGIS	180	-180	COE	0.000000000E+00	8.7912000000E-02
EL MOEN	ELINOTION GENERATOR	VDC	65535	0	COE	-1.7062400000E+01	8.3312500000E-03
ON TIME	DESCRIPTION OF THE PROPERTY OF	HOLIES	64	C	COE	0.000000000E+00	1.000000000E+00
GANT MINI	OWN (HOURS	AL IN	64	C	COE	0.000000000E+00	1.0000000000E+00
VIIII TATO	SOLIOU) TWO	SECIO	64	c	JOS.	O DOUDOUDOUDE+00	1.000000000E+00
GIM! SEC	SHOOT) TMO	מבטים	5 6		100	O O O O O O O O O O O O	+
GIMI OFF	SHOOT) INIB	OLO O	2022		100	001日の0000000000000000000000000000000000	-
GW11101001	OVAC THEO	01400	20000		100	001日の0000000000000000000000000000000000	+-
GMIDMSI	GIMI (DATO	WILLISEC,	00000		200	00.110200000000000000000000000000000000	
GMTHMS1	GMT (HOURS	COONIS	65535	0	COE	0.0000000000000000000000000000000000000	
HITIME	HIGH TIME	COONIS	65535	0	COE	0.00000000000	+
HITIMEREN	HIGH TIME REMOTE	COUNTS	65535	0	COE	0.000000000C0E+00	-
HYDPRESSB_U	HYDRAULIC PRESSURE - BLUE	PSI	4095	0	COE	0.000000000C0E+00	
HYDPRESSGRN	HYDRAULIC PRESSURE - GREEN	PSI	7095	0	COE	0.0000000000E+00	
HYDPRESSYLW	HYDRAULIC PRESSURE - YELLOW	PSI	7095	0	COE	0.0000000000E+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	Σ	2.048	0	COE	0.0000000000E+00	
MAS12VDCNEG	MASTER · 12 V POWER SUPPLY	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E-00
MAS12VDCP0S	MASTER + 12 V POWER SUPPLY	COUNTS	65535	0	COE	0.0000000000E+00	-
MAS15VDCNEG	MASTER - 15 V POWER SUPPLY	COUNTS	65535	0	SOE	0.0000000000E+00	-+
MAS15VDCP0S	MASTER + 15 V POWER SUPPLY	COUNTS	65535	0	COE	0.0000000000E+00	1.0000000000E+00
MASSVDCPOS	MASTER + 5 V POWER SUPPLY	COUNTS	65535	0	SOE	0.0000000000E+00	-
MASIRIGSTAT	MASTER IRIG STATUS	COUNTS	65535	0	SO	0.0000000000E+00	-+
MASTERTEMP	MASTER TEMP	COUNTS	65535	0	COE	0.0000000000E+00	
MODYAWRATE	MODIFIED IRS YAW RATE	DEG/S	50	-50	COE	0.0000000000E+00	
POTPWR	POTENTIOMETER POWER SUPPLY	VOLTS	5	0	300	-6.0000000000E-02	1.2500000000E-03
RDRTRVLFLC1	FUDDER TRAVEL LIMITER FAULT FLC 1	DISCRT	+	0	NON		
RDRTRVLFL02	FUDDER TRAVEL LIMITER FAULT FLC 2	DISCRT	1	0	NON		
RSPSDAC	RUDDER POSITION SDAC	DEG'S	180	-180	COE	0.000000000E+00	8.7912000000E-02
SFID	Sub Frame ID	COUNTS	65535	0	SOE	0.0000000000E+00	1.0000000000E+00
STABPOSSDAC	STAB POSITION SDAC	DEG'S	180	-180	COE	0.000000000E+00	8.7912000000E-02
UTIME	MICRO TIME	COUNTS	65535	0	COE	0.0000000000E+00	1.000000000E+00
UTIMEREM	MICRO TIME REMOTE	COUNTS	65535	0	COE	0.0000000000E+00	1.000000000E+00
VARSTPACTPOS	VARIABLE STOP ACTUATOR POSITION	MM	65535	0	SOE	-1.062500000E+01	1.2500000000E-02
VARSTPACTTRVL	VARIABLE STOP ACTUATOR POSITION% TRVL	%TRVL	65535	0	COE	-2.6579112000E+01	3.1269543000E-02
WHEEL POSEUS	CONTROL WHEEL POSITION (A429)	DEG'S	189.8818	-189.8818	COE	0.000000000E+00	+-
YAWCMDFACOUT	YAW BATE COMMAND FAC 1 OUTPUT	DEG'S	15	-15	300	-1.7062400000E+01	1
YAWPOSFACOUT	YAW DAMPER POSITION FAC 1 OUTFUT	DEGIS	15	-15	COE	-1.706240000E+01	-
YAWRATE	YAW RATE	DEG/S	15	-15	COE	0.0000000000E+00	┼
F COOLOTON N	O COT MOOD DOTALITON ON MANY		***************************************	7000	100		4
		C.C.C.	30.61	-		-3 7092173824F+01	1 1 8111413000F-02

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





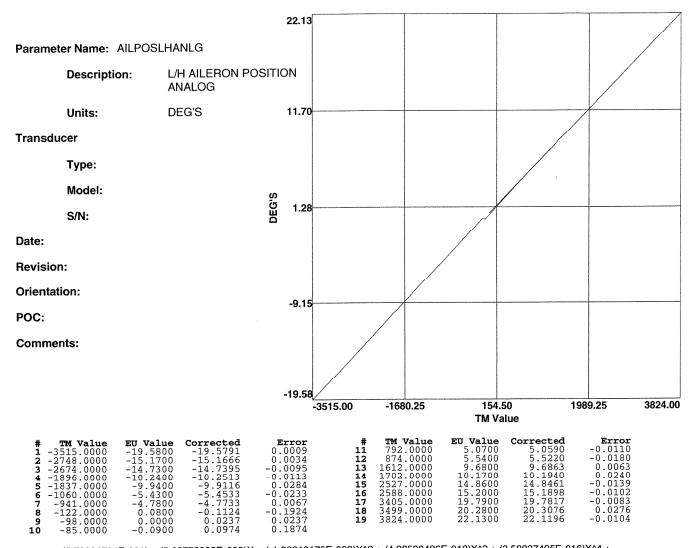
Report No. <u>TAP 01-05-533</u> TEST ARTICLE PREPARATION Naval Air Warfare Center

Pg. No. <u>IV-5</u>

CALIBRATION EQUIPMENT SUMMARY

5.4.2.2 EQUIPMENT ANGLE STAR DIGITAL PROTRACTOR	SERIAL NUMBER METER: 22650030 SENSOR: 20060034	O6-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 SLOTTED CLASS C WEIGHTS	SERIAL NUMBER	CALIBRATION DATE 24-Jul-02	DATE DUE 24-Jul-03	CALIBRATION AUTHORITY 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	

Date: 11/26/2002 Time: 13:02:28
TMATS File: C:\My Documents\A300\REPORT\a300_pcm_export112602.tma



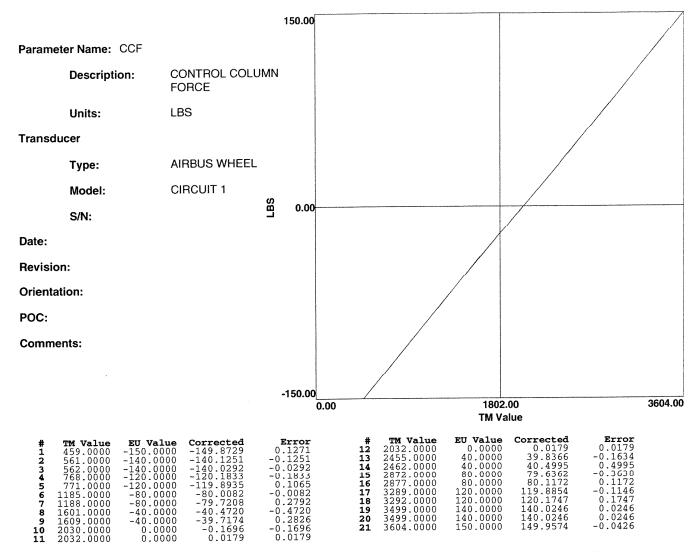
 $\textbf{EU} = \\ (5.79324781\text{E}-001) + (5.66775835\text{E}-003)\text{X} + (-1.82210175\text{E}-008)\text{X}^2 + (4.28580426\text{E}-012)\text{X}^3 + (3.58837495\text{E}-016)\text{X}^4 + (-2.23998478\text{E}-019)\text{X}^5$

Correlation Coefficient: 0.99998717 LSBF Order: 5

RMS: 0.06351263

1 Count: 0.58499252 3824 Counts: 22.11961102

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

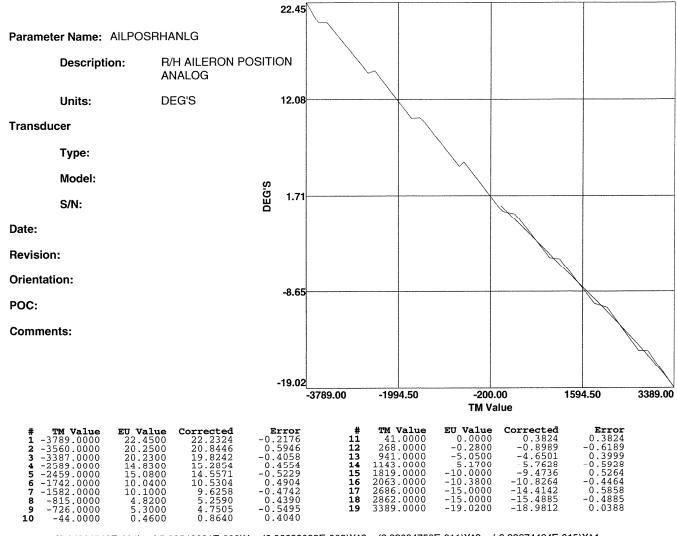


Correlation Coefficient: 0.99999775 LSBF Order: 5

RMS: 0.21342591

1 Count: -191.82193029 3604 Counts: 149.95737136

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



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

Correlation Coefficient: 0.99928725 LSBF Order: 5

RMS: 0.47406261

1 Count: 0.60889612 3389 Counts: -18.98117537

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:

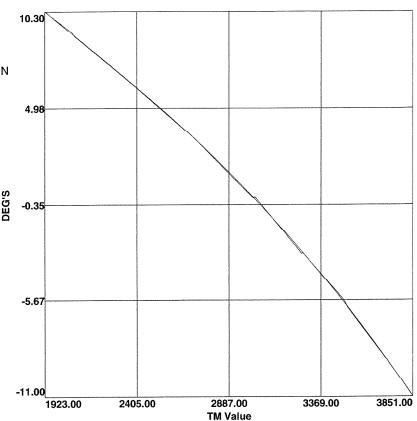
Date:

Revision:

Orientation:

POC:

Comments:



#12345678	TM Value 1923.0000 2061.0000 2078.0000 2389.0000 2422.0000 2719.0000 2724.0000 3011.0000	EU Value 10.3000 9.1600 8.9000 6.2000 5.9000 3.1500 3.0800 0.0000	Corrected 10.3253 9.0792 8.9300 6.2238 5.9299 3.1338 3.0839 0.0474	0.0253 -0.0808 0.0300 0.0238 0.0299 -0.0162 0.0039 0.0474	# 10 11 12 13 14 15 16	TM Value 3020.0000 3267.0000 3274.0000 3491.0000 3505.0000 3708.0000 3715.0000 3851.0000	0.0800 -3.1000 -5.7200 -6.0600 -8.8700 -8.9300 -11.0000	Corrected -0.0535 -2.9610 -3.0472 -5.8320 -6.0192 -8.8495 -8.9513 -10.9921	Error -0.1335* 0.1390* 0.0028 -0.1120* 0.0408 0.0205 -0.0213 0.0079
	2015 0000	0.0000	0.0474	-0.0074		3031.0000	11.0000	2013322	

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

Correlation Coefficient: 0.99995586 LSBF Order: 5

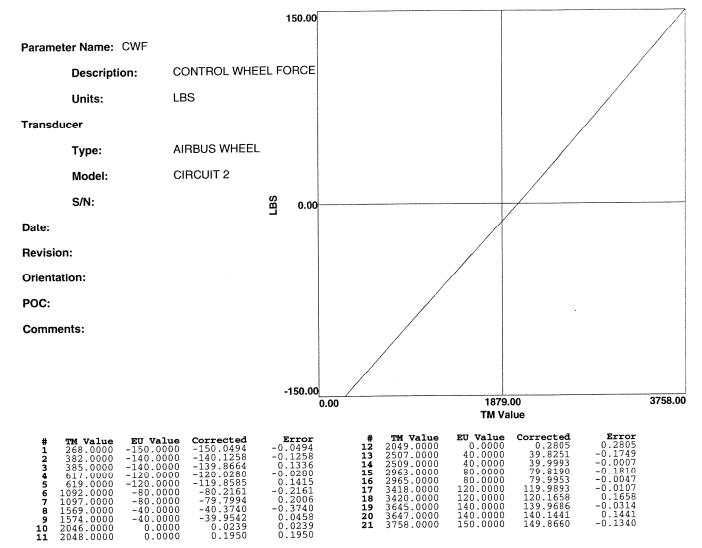
RMS: 0.06155506

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.

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



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

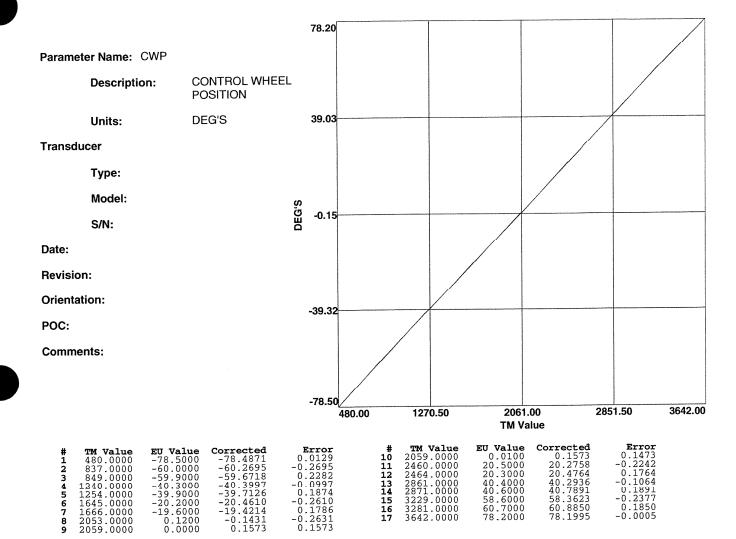
Correlation Coefficient: 0.99999875

LSBF Order: 5

RMS: 0.15942902

1 Count: -173.92123752 3758 Counts: 149.86603086

Date: 11/27/2002 Time: 08:36:48 TMATS File: c:\my documents\a300\report\a300_pcm_export112602.tma

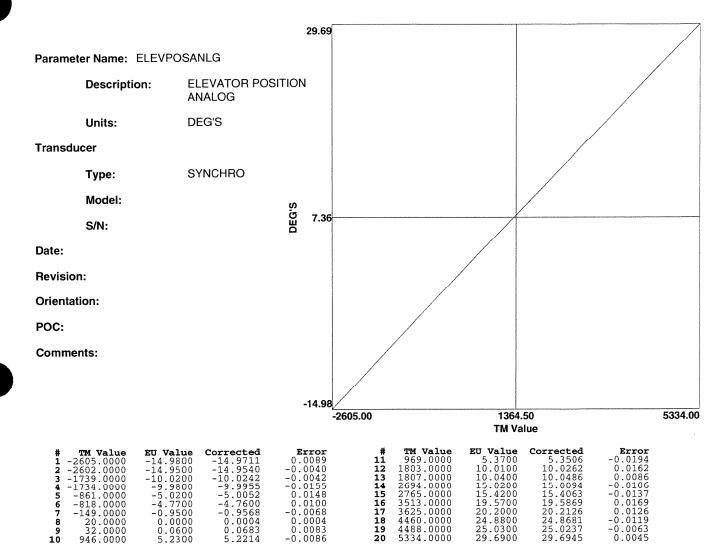


Correlation Coefficient: 0.99999128 LSBF Order: 5

RMS: 0.18863415

1 Count: -105.61335185 3642 Counts: 78.19951706

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



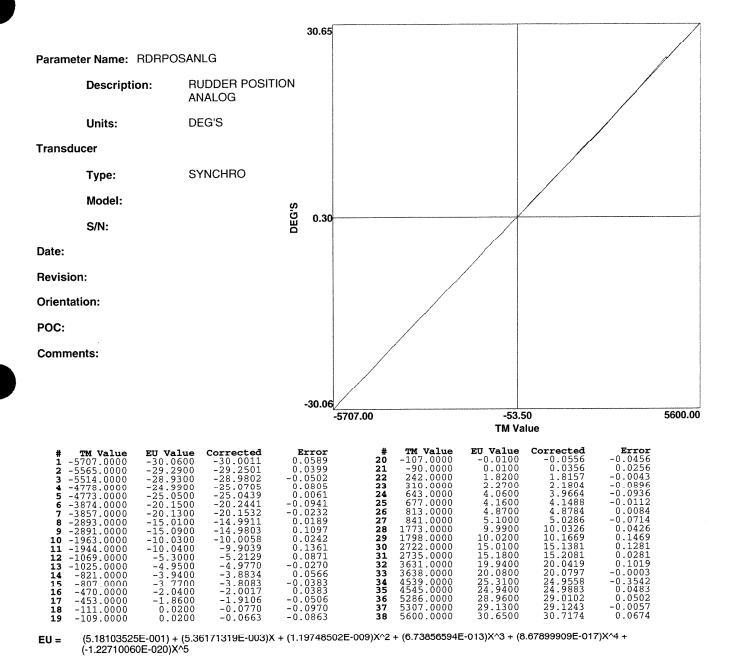
 $\textbf{EU} = (-1.12809836\text{E}-001) + (5.66076457\text{E}-003)\text{X} + (-2.51004870\text{E}-008)\text{X}^2 + (9.06705275\text{E}-013)\text{X}^3 + (1.16212873\text{E}-015)\text{X}^4 + (-1.74032060\text{E}-019)\text{X}^5$

Correlation Coefficient: 0.99999965 LSBF Order: 5

RMS: 0.01123310

1 Count: -0.10714910 5334 Counts: 29.69445540

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



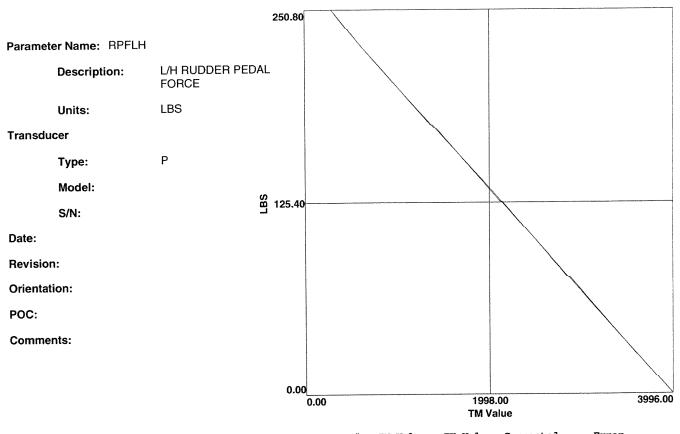
Correlation Coefficient: 0.99998619 LSBF Order: 5

RMS: 0.08878847

1 Count: 0.52346524

5600 Counts: 30.71736380

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



5	TM Value 291.0000 250.8 628.0000 255.8 1366.0000 175.8 2113.0000 125.8 2113.0000 125.8 2138.0000 125.8 2854.0000 75.8	000 250.7332 1000 225.9511 1000 225.8105 1000 176.4664 1000 174.8268 1000 126.8273 1000 125.1375	-0.0668 0.1511 0.0105 0.6664 -0.9732 1.0273 -0.6625	# 9 10 11 12 13 14 15	7M Value 2874.0000 3602.0000 3980.0000 3983.0000 3993.0000 3996.0000	75.8000 25.8000 25.8000 0.8000 0.8000 0.0000	74.9876 25.9802 25.7809 0.9185 0.7192 0.0548 -0.1446	-0.8124 0.1802 -0.0191 0.1185 -0.0808 -0.0548 -0.1446
---	---	--	---	--	--	---	--	---

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

Correlation Coefficient: 0.99998340

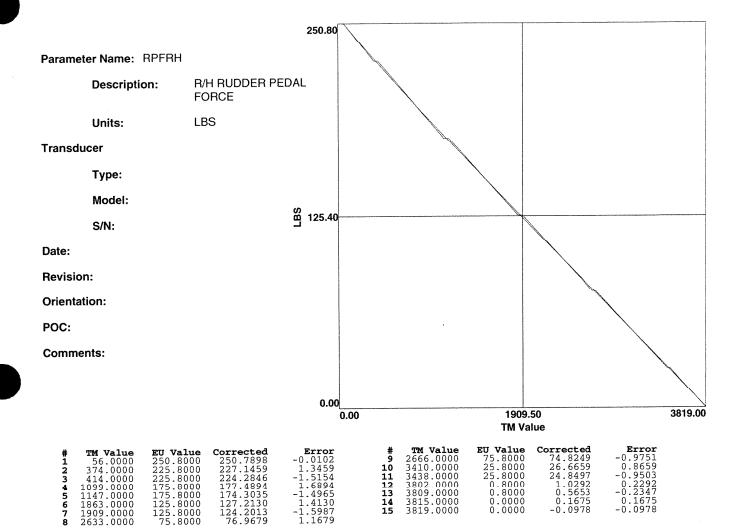
LSBF Order: 5

RMS: 0.51337259

1 Count: 275.11569676

3996 Counts: -0.14462511

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



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

Correlation Coefficient: 0.99992497

LSBF Order: 5

RMS: 1.09138956

1 Count: 255.07793744

3819 Counts: -0.09782862

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

21.30 Parameter Name: RPP **RUDDER PEDAL** Description: **POSITION** 10.50 DEG'S Units: Transducer Type: Model: -0.30S/N: Date: Revision: Orientation: -11.10 POC: Comments: -21.90 2576.00 3171.00 3766.00 1386.00 1981.00 TM Value EU Value 0.0000 -5.0000 -10.0000 -10.0000 -15.0000 -15.0000 -20.0000 -20.0000 -21.9000 Corrected
-0.0817
-4.9857
-5.0214
-9.9410
-10.0257
-14.8513
-15.0236
-20.1339
-20.2186
-21.6529 TM Value 2570.0000 2839.0000 3124.0000 3129.0000 3415.0000 3425.0000 3701.0000 3766.0000 Corrected 21.2848 20.0379 20.0181 14.9365 14.9192 10.0843 10.0669 5.0385 5.0020 0.0106 -0.0633 TM Value 1386.0000 1447.0000 1448.0000 1727.0000 1728.0000 2010.0000 2292.0000 2294.0000 2565.0000 EU Value 21.3000 20.0000 20.0000 15.0000 10.0000 Error -0.0817 0.0143 #123456789 # 12 13 14 15 16 17 18 19 20 0.0590 0.0257 0.1487 -0.0635 -0.0808 0.0843 0.0669 0.0385 0.0020 -0.0236 -0.1339 -0.2186 0.2471

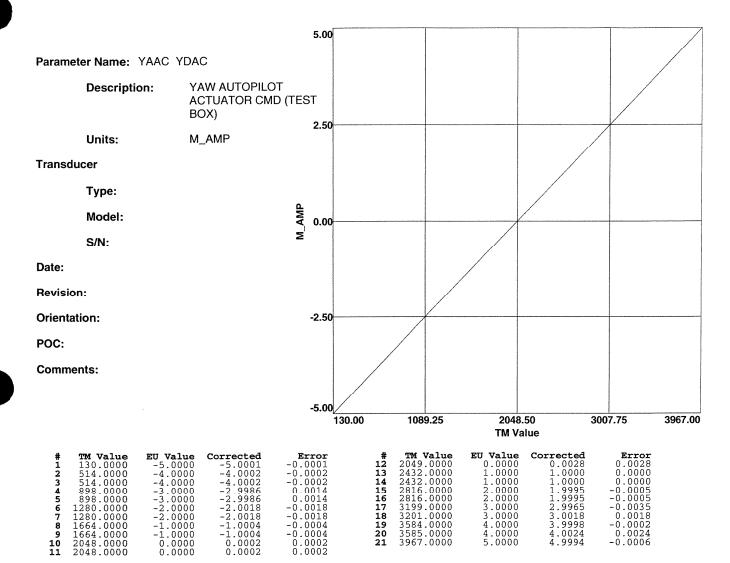
EU =	(1.39700528E (-1.20332864		5968640E-001)	X + (1.79156454l	E-004)X^2	2 + (-7.4875770	3E-008)X^3 +	(1.52102851E-0	11)X^4 +
7 8 9 10 11	2010.0000 2292.0000 2294.0000 2565.0000 2569.0000	10.0000 10.0000 5.0000 0.0000 0.0000	10.0649 10.0669 5.0385 5.0020 0.0106 -0.0633	0.0669 0.0385 0.0020 0.0106 -0.0633	18 19 20 21	3425.0000 3697.0000 3701.0000 3766.0000	-15.0000 -20.0000 -20.0000 -21.9000	-15.0236 -20.1339 -20.2186 -21.6529	-0.023 -0.133 -0.218 0.247

Correlation Coefficient: 0.99997576 LSBF Order: 5

RMS: 0.09529148

3766 Counts: -21.65285540 1 Count: 139.47473838

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



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

Correlation Coefficient: 0.99999988

LSBF Order: 5

RMS: 0.00139226

1 Count: -5.33519201

3967 Counts: 4.99936597

Report No. <u>TAP 01-05-533</u>

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Pg. No. <u>V-1</u>



APPENDIX V

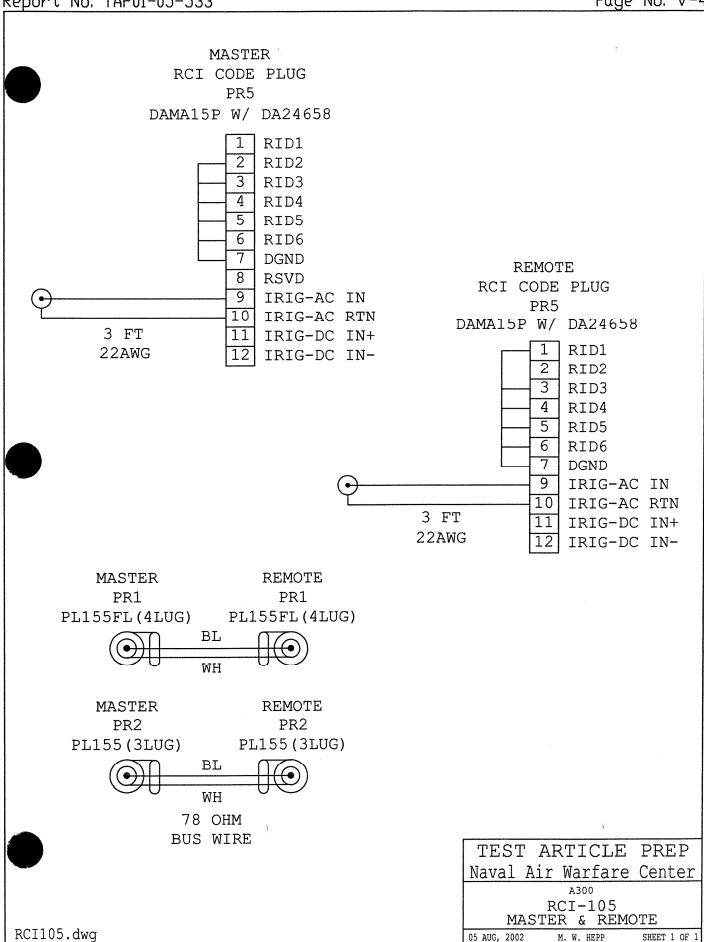
WIRING DIAGRAM INDEX

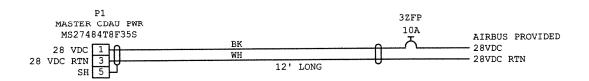
ITEM		PAGE
CDAU CONFIGURATION		V-3
RCI AND CAIS BUS		V-4
CDAU POWER		V-5
CDAU PROGRAMMING INTER	FACE	V-6
FLIGHT CONTROL FORCES		V-7
FLIGHT CONTROL POSITION	NS	V-8
	SIGNAL INPUTS	
ARINC 429 INTERFACE		.V-10
	OSITIONS	
	UTS	
	POSITION	
RUDDER TRAVEL LIMITER	FAULTS	.V-14
FREQUENCY/POWER CONVERS	TER	.V-15

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)

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A300, MSN 701

CDAU CONFIGURATION





WIRE TO BE 22AWG

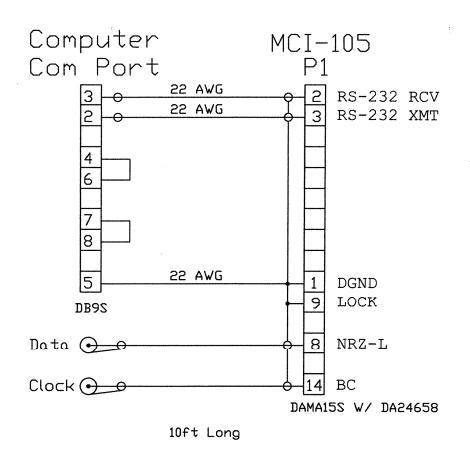
TEST ARTICLE PREP Naval Air Warfare Center

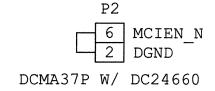
A300, MSN 701 MASTER/REMOTE CDAU POWER

29 AUG, 2002

M.W. HEPP

SHEET 1 OF 1





Computer Com Port

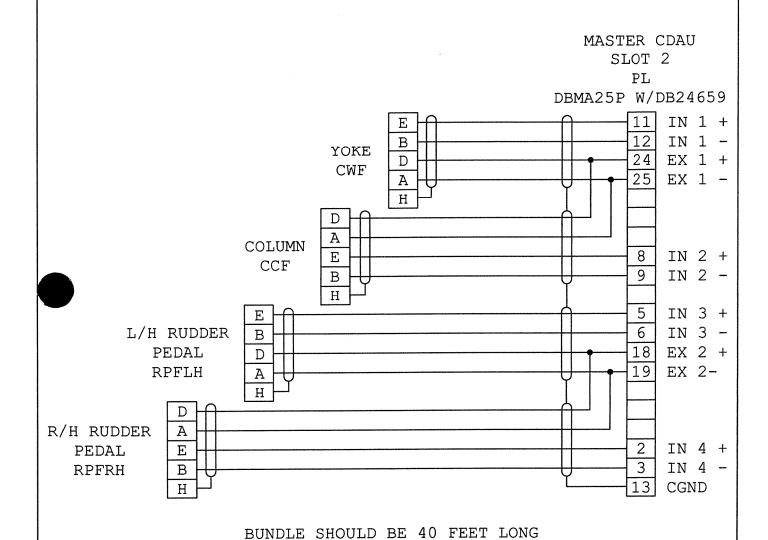
	
	Data Carrier Detect
2	Received Data
3	Transmit Data
4	Data Terminal Ready
5	Signal Ground
6	Data Set Ready
7	Request to Send
8	Clear to Send
9	Ring Indicator
DB9P	

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A300
MCI-105&
PROGRAMMING CABLE

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SHEET 1 OF 1

MCIPRG.dwg



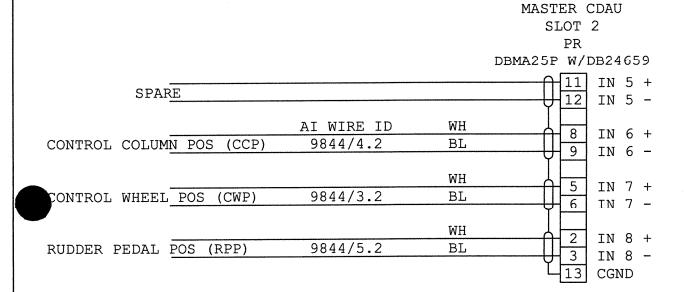
22 AWG TW/SH 4 CONDUCTOR

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

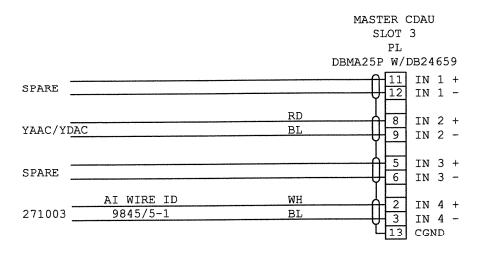


TEST ARTICLE PREP
Naval Air Warfare Center

A300, MSN 701
FLT CONTROL
POSITIONS

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

FLT CNTRL POS.dwg



SLOT 3 PR DBMA25P W/DB24659 11 IN 5 + 12 IN 5 -271004 9845/5-2 WH 8 IN 6 + 271005 9845/5-3 9 IN 6 -5 IN 7 + 6 IN 7 -271008 9845/5-4 WH 2 IN 8 + 271009 9845/5-5 IN 8 -13 CGND

> TEST ARTICLE PREP Naval Air Warfare Center A300, MSN 701 AIRBUS FORCES & TEST BOXES

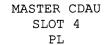
> > SHEET 1 OF 1

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MASTER CDAU

AIRBUS FORCES.dwg



AI WIRE ID DBMA25P W/ DB24659

SHIP'S CLK		WH		1 CH 1	RCV +
SHIP'S CLK	15-5	BL	$\frac{12}{24}$	CH 1	RCV -
SHIP'S CLK			-1 25	CH 1	DGND
EFCIU		WH	$\frac{0}{10}$	-	RCV +
EFCIU	16-2	BL		-	
			 22	CH 2	RCV -
EFCIU				CH 2	DGND
INPUT TO ADC		WH	$\frac{1}{3}$	CH 3	RCV +
TAIDIM MO ADC	15-7	BL	111	4	
INPUT TO ADC		תם	 16	CH 3	RCV -
INPUT TO ADC			 1 7	СН 3	DGND
) <u> </u>	CH 4	RCV +
			14	CH 4	RVC -
			15	CH 4	DGND
			L 13] CHAS	SIS

MASTER CDAU

SLOT 4

PR

AI WIRE ID DBMA25P W/ DB24659

	222	** 7. 7. 7.77	1.10			,			
SDAC				WH	A	12	СН	5	RCV
SDAC		15-6		BL		24			RCV
SDAC					U	25	СН	5	DGND
FAC IN				WH	——-Й	10	СН	6	RCV
FAC IN		26-2		BL		22	СН	6	RCV
FAC IN						23	CH	_	DGND
FAC OUT				WH	X	3	CH	_	RCV
FAC OUT		27-2		BL		$\frac{3}{16}$	CH	7	RCV
FAC OUT						7 1 2		7	
1110 001					— У	1 /	CH	1	DGND
					1	1	CH	8	RCV

MODIFIED YAW RATE

YAW RATE YAW STAB CMD 1

> TEST ARTICLE PREP Naval Air Warfare Center A300, MSN 701

14 CH 8 RVC -CH 8 DGND CHASSIS

> ARINC 429 BUS DATA

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M.W. HEPP SHEET 1 OF 1

ARINC 429 BUS DATA

AI WIRE ID			CHASSIS SLOT 5 DCMA37S W/ DC24660
7-4	L/H AIL POS L/H AIL POS L/H AIL POS	YW RD BL	2 CH 1 S1 3 CH 1 S2 4 CH 1 S3
7-3	L/H AIL POS L/H AIL POS R/H AIL POS	WH BL YW	22 CH 1 R1 (RH) 21 CH 1 R2 (RL)
9-4	R/H AIL POS R/H AIL POS	RD BL	8 CH 2 S1 9 CH 2 S2 10 CH 2 S3
9-3	R/H AIL POS R/H AIL POS ELEV POS	WH BL YW	28 CH 2 R1 (RH) 27 CH 2 R2 (RL) 14 CH 3 S1
11-4	ELEV POS ELEV POS	RD BL	15 CH 3 S2 16 CH 3 S3
11-3	ELEV POS ELEV POS	WH BL	34 CH 3 R1 (RH) 33 CH 3 R2 (RL) 19 CHASSIS

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

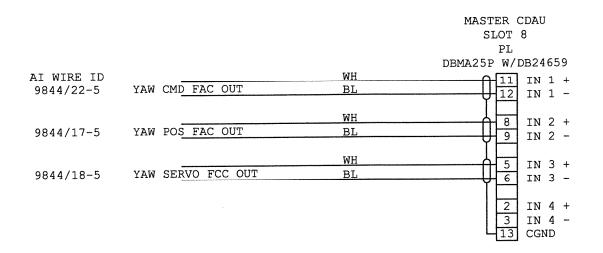
7\ T	WITDE	TD	1		CHASS SLOT	6	0 1 6	560	
AI	WIRE			DCMA3 /	D W/	DCZ	.46	000	
	13-4 13-3	RUDDER RUDDER RUDDER RUDDER RUDDER	YW RD BL WH BL		2 3 4 22 21 8 9	CH CH CH CH CH	1 1 1 2 2	S1 S2 S3 R1 R2 S1 S2 S3	(RH) (RL)
					28	СН	2	R1	(RH)
					27 14 15 16	CH CH	3	R2 S1 S2 S3	(RL)
					34 33 19	СН		R1 R2 SIS	(RH) (RL)

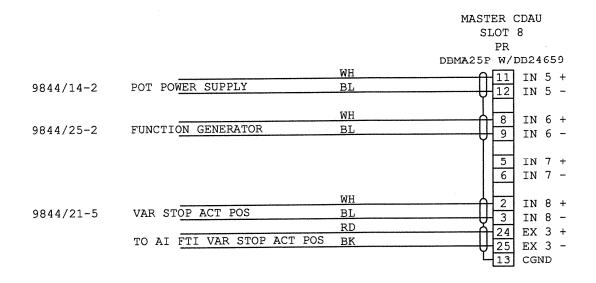
TEST ARTICLE PREP
Naval Air Warfare Center

A300
SRD-103
RUDDER POSITION

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M.W. HEPP SHEET 1 OF 1

RUDDER POS.dwg

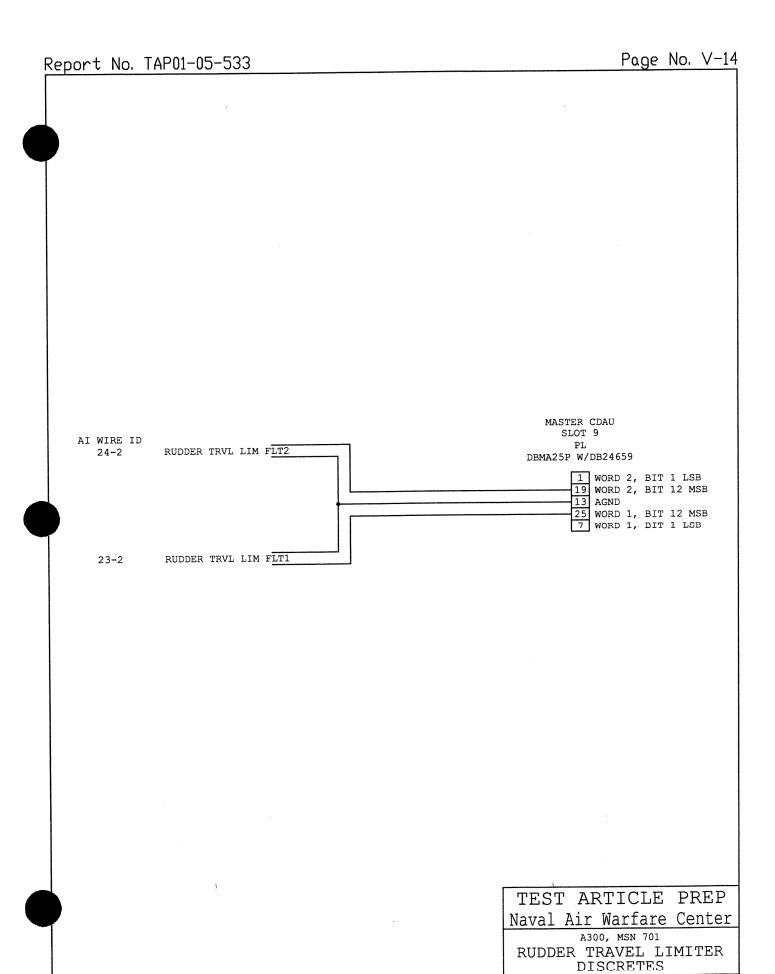




TEST ARTICLE PREP
Naval Air Warfare Center
A300, MSN 701
AIRBUS TEST SIGNALS

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

AIRBUS TEST SIGS.dwg

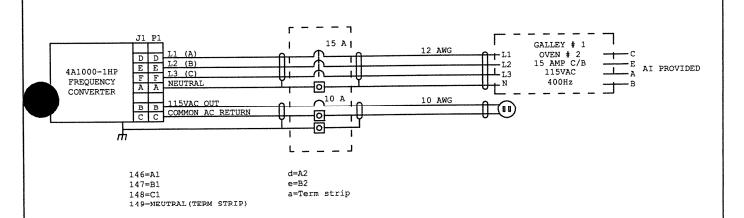


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SHEET 1 OF 1

DISCRETES.dwg



TEST ARTICLE PREP Naval Air Warfare Center

A300, MSN 701 FREQUENCY CONVERTER

29 AUG, 2002

M.W. HEPP

SHEET 1 OF 1



APPENDIX VI

TEST ARTICLE PREPARATION Naval Air Warfare Center

Pg. No. <u>VI-2</u>

PHOTOGRAPH INDEX

ITEM	PAGE
THE DAME LIED THIS	 77T _ 3
COCKPIT	
DATA SYSTEM	 VI-11



EE BAY: AIRBUS SIGNAL BREAK-OUT SOURCE

