

RETREAD SO VERR/NOUN CODES NO MOUNS VERRE ILLECAL 00 NOT IN USE DREPLAY OCTAL COMP 1 (81) OF SPECIFY MACHINE ADDRESS (FRACTIONAL DEFLAY OCTAL COMP 1 (81) DEFLAY OCTAL COMP 2 (81) DEFLAY OCTAL COMP 3 (81) DEFLAY OCTAL COMP 1, 2 (81, 82) DEFLAY OCTAL COMP 1, 2, 3(81, 82, 83) 03 SPECIFY MACHINE ADDRESS (DECRESS) OF SPECIFY MACHINE ADDRESS OFFICES OF SPECIFY MACHINE ADDRESS (SHOONES) OF SPECIFY MACHINE ADDRESS (SYNO DIGGE OF SPECIFY MACHINE ADDRESS (Y OFF DEDRE OF SPECIFY MACHINE ADDRESS (Y OFF DEDRE DECIMAL DISPLAY DP DECEMAL DESPLAY (R.I., R.D.) TO CHANNEL TO BE SPECIFIED MONITOR DOT COMP LOUIS MONITOR OUT COMP 2 (R.1) MONIFOR OCT: COMP 3 (R1) MONIFOR OCT: COMP 1, 2 (R1) MONIFOR OCT: COMP 1, 2, 3 (R1, R2, R3) LI INCREMENT MACHINE ADDRESS MONITOR OF DECIMAL (RJ. 92) LOAD COMP LOUD 22 NEW ANGLES 1 23 DELTA ANGLES 1 24 DELTA TIME (SECONDS) TOWD COME 3 (8/3) LOAD COMP 1, 2 (R1, R2) LOAD COMP 1, 2, 3 (R1, R2, R3) 26 PRIO/DELAY, ADRES, ERCON FIXED MEMORY DEPLAY 27 SELF TEST ON/OFF SWITCH 30 STAR NUMBERS AUGUST EXECUTIVE REQUEST WATTLET CORD INTO RS, CIRCI INTO RS PROCEED WITHOUT DATA 32 DECISION TIME IMPOUNTS IN 33 ERIEMERIS TIME 04000UISES TERMINATE 34 MEASURED QUANTITY (MIDCOURSE) 35 ROLL PRICE, YAN 30 LANDMARK DATA 1 CHANGE MAJOR MODE 37 LANDMASK DATA 2 COASSE ALICH PENS PULSE TREOUTING 52 CYRO BIAS DRIFT 58 CYRO INPUT AXIS ACCELERATION DRIFT SO UNGALLED MARK DATA (DODG) & TIME! NI NEW ANGLES OCCU ON TARGET AZBRUTH AND ELEVATION OF STRIZ AND TIME 64 OCDAY AND TIME 65 SAMPLED TIME (HOURS AND SECONDS) 66 SYSTEM TEST RESULTS TO PURA DEAD TO PIEW SIMS TI PIEM SEALE FACTOR ERROR T2 DELTA POSITION T3 DELTA VISLOCITY 74 MEASUREMENT DATA OMISCIOLISES TH MEASUREMENT DEVIATIONS (MIDCOURSE)

AC BLECTRONG



AC BUILDINGS

1 MARCH 1990

ALIPOPA FRROR CODES OFFICE NIB-SESTEM MARIE RUTTONS NOT AVAILABLE SUNDIAL C VERRANDUN CODES HALLS MADE BUT NOT DESIRED DISPLAY OCTAL COMP I DEPLAY OCTAL COMP 1 DEPLAY OCTAL COMP 1. 2 INV. SUB-STSTAM DECEMBLOSPIAY PIER PAIL BUT INFR IS NOT BEING USED DF DECIMAL OBFLAY BMU NOT OPERATING WITH TURN-ON BECKEST PROCRAM USING IMD WHEN TURN-DO OFF MONTON OCT COMP 1 OFTICAL TRACKIE ALARMS MONTROE OCT COMP MONITOR OCT COMP 3 +AZIMUTH LIMIT STOR MONITOR OCT COMF 1, 2 MONITOR OCT COMF 1, 2, 3 MONITOR DECEMBLE MONITOR DE DECIMAL ILLEGAL HORE THAN ONE PROGRAM TRYING TO USE OPTICAL TRACKER 22 LOAD COMP 2 29 LOAD COMP 3 LINARE TO ACHIEVE DESIRED LOS WITHIN TO SECONDS 29 LOAD COMF 1, 2 26 LOAD COMF 1, 2, 3 CANNOT GET BACK TO STOW LOCK ON, DATA GOOD BLISCALLY PRESENT DUBING SELF TEST STOW COORDINATES NOT WITHIN LIMITS 24 ILLEGAL 27 TIXED MEMORY DISPLAY MOURET EXECUTIVE LOCK ON FAILURE DURING SHITE THAT DATA COOD PAILURE DURING SELF TES 22 CIRCU INTO BA. CIRCO INTO BE SELF TEST LIGHT COGROBATES NOT WITHIN LIMITS COULD NOT GET LOCK ON AFTER SSUANCE OF TRACK ENABLE 22 PROCHED WITHOUT DATA 24 TERMINATE 25 TEST LEGITS PROPERTY. 37 CHANGE MAJOR MODE 40 77790 41 COARSE ALICE PROCEDURAL DIFFICURTY 49 LOAD BALLACK BALL DESIRED COMMAL ANCLES YIELD GIVEAU LOCK 46 BLLDGAL EADAR SEEDES

UNUSED OCS IRANCH EXCIDENCE ABORT DOWNLING TOO PART USI OVERFLOWS (ALL ABORTS) 01303 KETSCARD AND DEPLAY WAITING LINE OVERFLOW IND YAC AREA FOR NAMES TWO PROCESANS USING DEVICE AT SAME TIME

BADAR ANTENNA OUT OF LIMITS BAD RADAR GENEAL ANGLE INSUTS BADAR ANTENNA DESCRIPTION

LIS ANTENNA DIO NOT MAKE IT

COMPUTER HARDWARE MALPUNCTIONS

LMARCH 1966

INTERPRETER DIRECTS ARCSIN ARCSIN-ARCCOG INPUT ANGLE TOO LARGE. AROST DEPLAY ALABAS

COU DOES NOT ACRES WITH COMMAND TO I DOOR UP KETEGAED AND DISPLAY PROGRAM KETBOARD AND OBPLAY ALARM DURING INTERNAL USE OWNER, ABORT

MECET ADDRESS (FRACTIONAL)

SPECIFY ADDRESS (DEGREES) 65 SPECIFY ADDRESS (SCHOOLS)
64 SPECIFY ADDRESS (STYRO DECRESS)
67 SPECIFY ADDRESS (TYPE DECRESS) CHANNEL TO BE SPECIFIED BICREMENT ADDRESS TIME SECONDS 27 MEW ANGLES I 24 CELTA TIME GEDONESI CHECKLET PREPORLAY, ADRES, MICON SELE CHECK ON OFF SWITCH STAR NUMBERS PARTIES, SPAIL, ESCOUNT DECESON TIME (MEDICOLEUS) ENVENTAS TIME (MEXICOUNSE) 34 MEASURED QUANTITY (MIDCOURSE) 35 INST MISSING SPAKE 46 ELECAL 27 PERFORM COM A SATURN TESTS SO PLEASE PRITORM B PLEASE MARK 12 PERFORM PRELAUNCH ALICHMENT 12 CT100 NSO SO TLANCAL 43 GYRO ADEA SA PULSE TORQUE GYROS CYBO ADSEA PERFORM BANKSOM PERFORM SYSTEM TEST RECOVER FROM GGO STANDER

45 BLAGAL

UNCALLED MAKE (OPTS, OPTY, TIME) TABLET AZIMUTH AND ELEVATION 42 PCDUZ AND TIME 42 OCDAS AND TIME OCCUT AND TIME SAME ED TIME OUNTS A SECONDA 66 SYSTEM TEST RESULES 67 DELTA GYRO ANGLES

PER SCALE FACTOR ERBOR DELTA POSITION

MEASUREMENT DATA ONDOORINGS VELOCITY VECTOR

E AC ELECTRONICE

SUNDIAL C FRROR CODES

OFFICE SEATING

DESIGNATION OF THE ATTENDED OF THE CONTROL OF THE C

0042 STAR OUT OF PRILED OF NOW 0043 STAR OUT OF PRILED OF NOW 0043 STAR OUT OF PRILED OF NOW

MAN OF CHECK CHOOSE ASSETS THE CONTROL ASSET THE CONTROL ASS

60301 EXECUTIVE OFFICE OF YEAR ABOVE 60302 EXECUTIVE OFFICE OF OFFICE STEE 60303 MATERIT OFFICE OF TOO MANY TABLE 60306 SETTOMOR AND DEPLAY WATERS LINE OFFICE OF 60307 NO VACABLE FOR MARCH 60307 TOO TROCKAND USED SAME DESPICE AT SAME TIME.

6130 ARCSIN-ARCCIG INTIT ANGLE TOO LARGE, AROUT 61302 SQRT CALLED WITH MEGATIVE ARGUMENT, ARCSI

INTERPRETIE 105 OES

DISPLAT MARK

TENTEN TO LARCE USA SANDEN TEN, PROTECT AND TRANSLETABLE
AN LEGAL QUANTIT LORDED BY THE FOR SHORE TAKE TRANSLETABLE

FOR THE PROPERTY OF THE FOR SANDEN TENDER TO SHORE THE THE THE FOR THE FO

KETEGAED AND DEPLAY PROGRAM.

01564 KETYKOARD AND DEFLAY ALARM DURING INTERDIAL USE (MYSER). ABOUT

SYSTEM TRIT ALARMS

ORGO DRIFT TREST MESSED IN TIME STEP

ORGO DRIFT TREST MESSED IN CYPE TO TO SQUEEK, ENDINGS

SUNDIAL B. VERBANCKIN CODES

*1795 DIMPLAY LICIAL COMP 1 LISPLAY OCTAL COMP 2 LISPLAY OCTAL COMP 3 LISPLAY OCTAL COMP 1, 2 DISPLAY OCTAL COMP 1, 2, 1 RICHARD COMP 1, 2, 2 SPECIFY ADDRESS O'S ACTIONAL SPECELA VOCATOR DACAGES
PARCELA VOCATOR DACAGES SPECIFY ADDRESS (SECURDS)
SPECIFY ADDRESS (SECURDS) OF OFCEMAL DEFEAT SENCETA ATTORNESS OF OUT DECIDENCE CHANNEL TO BE SPECIFIED MUNITOR OCT COMP I n seute MEMORIOR OCT COMP 3 STATE SPATE PROPERTY ACCRESS PRINTED OUT COMP 1, 2, 3 TIME RECEIVED MONTHUS DE DECEMAL H LUCAL, 20 icou LOAD-COMP 1 DELTA ANGLES I LOND COMP 1, 2 LOND COMP 1, 2, 3 DIFFE AT TIME RESCONDER 15 CHECKLEY 26 PREDICTION AT ADDRESS PROTES THE BOAL THE PROPERTY PROPERTY AND ADDRESS OF THE PERSON O 27 -SELF CRUCK CHART WITCH 22 STAR MARKET STAR MINISTERS
FAU BEC, STAIL, ERCOUNT
DEEDWON TIME OMDCOURSES LEED INTO MA. HER INTO RE MILESURE DI COMMUNITY (MEDICINOSE) BRIT METERGE LANGBOARD DATA I LANGBOARD DATA 2 TESSET ANT CEMANS ALICH LUND IND SYTTYUM, READS METERS 2 PERFORM COM & SATERN TESTS FLEATE THE OWN 47 STATE PERSON MERCANNOL ALKANDEST SE CLED HED 84 CATEG ADSEA ALICN TIME PRETTEM REPORTS DISCALLED MARK (OPT), OPTY, TIMES PRETABLE FOR COCSTAMORE STARIE TARGET AZEMBOTH AND BLEVATION SCAN CSM INNES 43 KCKIT VAS LIMS. 43 OCCUS AND TIME AS DAMPLED TIME SIGURS & SECRESS

AC NO RESCRIPTION OF STREET AND S

44 SYSTEM TEST REPULTS
47 DELTA CORD ANGLES
70 PUR BAG
71 PUR SCALE FACTOR BRIGGS
73 DELTA REPUEDI

72 DELTA VELOCITY
74 MENGREMMENT DATA (MIDCHESE)

SUNDIAL B ERROR CODES

OFFICE 184, TYPEN

MANUAL STATES NOT AVAILABLE

10003

MANUAL STATES NOT AVAILABLE

10003

MANUAL STATES NOT AVAILABLE

10003

MANUAL STATES NOT AVAILABLE

10013

MANUAL STATES NOT AVAILABLE

10014

MANUAL STATES NOT STATES

10015

MANUAL STATES

10015

DAY DUE-VYSION

ODDET DE TURN ON REQUEST WOT PRESENT DUE 90 5000

ODDET DE TURN ON REQUEST WOT PRESENT DUE 90 5000

ODDET DE TURN DE T

DOZI COLOR ALON DAGE

DOZI PAY LAK BY PEN SIND PENGUNED

DOZI BAN NOT ORDERTING WITH TURN ON REQUEST

PENCEAN CHINA THE TENS TO NOT PENGUNED

PROCEDURAL DEPOCATO

COSE DESERVICES AND SAME TO COMPANY TO COMPANY TO COMPANY THE COST OF THE DOT NAME.

DAPOR NAROWAN MAJORCHONS

DIFC: ACC SELF CHECK SERIOR

DIFC: INSTRUCCE SEARCH EXTENTION. ABORT

NITE HARF TOO PAST TOO START TOO STA

60201 EXCEPTIVE OVERFLOW - BO YAC ARREST 60202 WASHINGTON CHART JUN - BO CACA SETS 60202 WASHINGTON CHART JUN - THO CACA SETS 60203 WASHINGTON CHART AND AND TRACE 60204 WASHINGTON CHART OF WASHINGTON CONTROL 60204 WASHINGTON CHART FOR THE THE TRACE

HISTOR ARCHIVARCES SPUT ANGLE TOO LABOR ARCHIT

SOUTH CALL SERVING STATES AND ADDRESS. AMOUNT

DORACT MARKS

THE TO LANCE IN COM & SATURETES, MOUNT

THE TO LANCE IN COM & SATURETEST, ENDINET

HAVE ON HALESAN QUANTITY LONGED IN THE STIT OR DISCRET TANK EDASAME TABLE.

EYEGARD AND DERAY PROGRAM

(150) EYYGARD AND DERLAY ALABAI DUBLING DERGONAL LISE DAYLON, ABUNT

SHM HER ALARMS

01600 DRIFT THEY MERCED IN TIME STEP

01601 DRIFT THEY INTRODUCTION OVERFLOW

01602 DRIFT THEY EMBER IN ORDS TRADERIES. THEORIES

OUTPUT CHANNEL OS

BIT ROSE	CHAMMEL OUTPUT SIGNAL	5/94	C/M	LEM
	BC+X+F	21 DOS + X + P	DESCRIPTION	11 BOS 41
9	BC - X + F	*3 7KCN - X + P	#5 RGS+F - X - \$W	15 ECS 50
4	BC+X-2	PERSONAL PROPERTY.	#105 PAZAR	14 805 30
	842 - X - Y	NE BOX - X YW		
3	8C - X+Y	T 200 - T 4 700	F 200 AW - Y - C	00 tes n

OUTPUT CHANNEL 06

SORTHON SORTHON	CHANNEL OCTFUT SIGNAL	8.94	C.94	LEM
1 .	RC+2+1 RC-2-1 RC-2+1	## \$CS + 2 + \$. #12 RCS - 2 - 8. #11 RCS - 2 + 8.	89 NCS + E + Y +Z 812 E/S - E - Y - Z 811 E/S + E + Y - Z	17 1/3 17 13 1/3 47 115 1/3 18
1	RC + Z -A RC + Y + B RC - Y - B	#10 BCS + Z + R #13 BCS + Y + R #16 BCS - Y - R	*10 K/S - R - Y +Z	*13 BCS 28* *12 BCS 35 *** BC3 38
2	50 - Y + 5 50 + Y - 5	415 BCS - Y + B 414 BCS + Y - B		#4 B.CS 45 #16 B.CE 15

OUTPUT CHANNEL 10

POSITION	CHANNEL, OUTTUT SICHAL	СМ	1234
1 2 2	31,8304 51,8308 81,8308	RELAY RIT L SELAY RIT 2 RELAY RIT 3	Vienno an CM
5 6	\$1,5'804 \$1,5'805 \$1,5'800	RELAY BY 4 RELAY BY 5 RELAY BY 6	:
7	\$1,7900	RELAY BY 7	:
6	\$1,7906	RELAY BY 8.	
9	\$1,7909	RELAY BY 9	
10	FEATROID	RELAY BIT TO	:
11	BLANGEI	RELAY BIT TO	
12	KNWINZ	RELAY ADDRESS I	
13	337000	MULAY ADDRESS 2	:
14	337000	RELAY ADDRESS 3	
15/16	337000	FELLAY ADDRESS 5	

15/18 18/96:1966

AD BLEDHONDS

SILVER

OUTPUT CHANNEL II

POSTEON	CHANNEL OUTSUT SIGNAL	OM.	LEN
1 2 3	ESPAR COMACT UPLACT	ISS WARNESS LIGHT COMMUTER ACTIVITY LAMP LIGHT CIPLING ACTIVITY LAMP	SAME AS C
5 6	TMFOUT KYRLS VSFLSI	LIGHT TEMP CAUTION LAMP LIGHT DES BELEFATE LAMP TLANG FLASH VERI AND HOUN LAMPS	:
2 8 5	071108 071109 071109	LIGHT OF BATOR BUICK LAND IFLY THAT CONNECTOR OUTBUT	:
00 11 12	GT1110 GT1111 GT1112	CAUTION RESET	
13 14 15/14	OTING OTING OTING		ENCORE ON

OUTPUT CHANNEL 12

	ON A C			
FUT POSTTION	CHANNEL COTTEST (SCSNAL)	ON	Line	
2 5	DEPCENT ENGROP STARON	ZUBO OPTICS COU BURBLE OPTICS HEX CITS FRANKE STAR TRACKER	ZEBO BA CDU ENAME BE GRA CTE DOSES VILLOCITY LO SCALI	
4 3	COMME ZINCOU ENRIM	COARSE ALIEN ENABLE 20150 INU COUTY FORMULE INU ERIS CTS.	SAME AS CH	
8 0	TVCNAS SHETAK	TWO ENABLE ENABLE SINE TAKE OVER	DISPLAY ENERTIAL DATA PETCH COMMAL TROM	
10 11 12	ZXXXOPT DESCRIC MEGGT	DIRECTOR OFFICE DAC	-PITCH CEMBAL TREM +BOLL CEMBAL TREM -BOLL CEMBAL TREM	
13 14 15	SAMING SAMOP BETISC	HWE IN EED START SHAR CUTTUP ING TURN ON IMILAY COMPLETED	LS FOR COMMAND BR ESSAPLE AUTO TRACK	

1 June: 1966

OUTPUT CHANNEL 13

	RADAR AND	AGC
SET POSITION	DM .	LOI
2 2	RADAR MODE SILECTION & BADAR MODE SILECTION & BAJAR MODE SILECTION &	SAME AS CM
i	BADAR ACTIVITY DOTBIT OFFINE, IDAAR E KLINE BLOCK INLESS	:
7 8 9	DOWNLINK WORD ORDER	NIC COUNTER ENABLE START SHE READ
10 11 12	TEST ALARMS STANDAY RESET TRAP NA	:
13 14 15	ROSET TRAP 18-6 ROSET TRAP 12 ENABLE TOROPT	:
	BAGAN BELECTEIN	
	0 0 0 0 0 1 0 1 0 0 1 1 1 0 0 1 0 1	NONE SS SANGE SN SANGE BATE NONE LN X WELDCITY LN X WELDCITY LN X WELDCITY

OUTPUT CHANNEL 14

BIT POSTTION	СМ	LON
2 3	SATELINE ACTIVITY	"SAME AS ON ALTITUDE BATE SELECTION ALTITUDE METINA ACTIVITY
5 6	ANTRY WELGETTY DRIVE SPATE.	TRREST CREWE MONETON ENCR DREW'S SHARE
1	OFTIO SELECTION 6 CTRO SELECTION 6 GRED SEEN MIRES	:
10 11 12	GIEGO ACTIVITY DEDTE OCCU SHAFT DEDTE OCCU TRANSCIN	:
13 14 18	OFFICE BALL COLL IZ OFFICE BALL COLL II OFFICE BALL COLL IX	:
	CANNO SELECTION	0190
_	2.2	NOSE:

1 3390 2005

₩ AC GLECTROMOS

INPUT CHANNEL 15

NOTTION PO	CHANNEL BYTCH SECONAL	ОІ	18M	TRAP	BUP:
2 3	MEETS MEETS	SEY IM SEY IM SEY IM	SAME AS ON	IS IS	5 5
1	MRSY4 MRSY5	US. 04 US. 44	:	15 15	5 5

INPUT CHANNEL 16

POSITION	CHAMEL DEUT SEDNAL	CM	LEM	TEAT	8077
2 5	NKEYI NKEYI NKEYI	REYS REYS	MARK, X	16a 16a 16a	:
1	NEETH NEETH NAME DECENT	KEY'S MILIK	MARK T MARK RESERVE DESCENT +	164 164 168	6 6
,	HERCHTA	MARK RESERVE	DESCRIPT -	161	

INPUT CHANNEL 30 (INVESTO 100K)

NCETTON	CHAMMEL INFUT SICHAL	OH .	LEM
2 5	SWEEDS SWEEDS	CELAGE THREST PRESENT SHESHBAYE SHESHBAYE	ABOUT STAGE VEHITSCATION EMERNE ARMED
5 6	LPTOPP OUREL	SINT SEPHEATE, ANDST LEFT OFF SEVE GUERANCE REP RELIGIES	ABOST STACE AUTO THISOSTLE OBJECT DESCRIPTION DATE
7 8 0	DECEPT. DECEM DIRECTOR	OPTICS COU FAIL DAY OPTIATE	FA COU FAIL PLANE AS CM
10 11 12	CHLSAT BALCAS COUPAL	S/C CONTROL OF SAT INC CACE INC CRU PAIL	GEN CONTROL OF S/C
13 14 15	DAUFAL ESTOR CEMEN	DAU PAIL. DG TURN ON RECKIEST TIMP IN LINETS	

I MANUE TOOK

INPUT CHANNEL 31 (MANUFED LOCK)

RET POSETTION	DIAMPEL INPUT SENAL	OH	LEM
2 3	MANUAT MANUAT MANUAT	-PETCH MAN BOT -PETCH MAN BOT -YAW MAN BOT	+DL (LFOL +BM =
1	MANU-Y MANU-Z MANU-Z	-YAW MAN BOT -BOLL MAN BOT -BOL HAN BOT	-Year
7 8 9	TEASHX TEASHT	+X TRANSLATION •X TRANSLATION •Y TRANSLATION	SAME AS CM
10 11 12	TEAN-Y TEAN-E TEAN-E	-Y TRANSLATION +E TRANSLATION -E TRANSLATION	1:
15 14 15	HOLPUN FEEDON COAPCE	HOLD PUNCTION FROM PUNCTION GOVERNO	ATTITUDE HOLD AUTO STABLIZATION ATTITUDE CONTROL OUT OF DETENT

	MHMHY	YAW MIN IMPULSE	THRESTERA - S FARE.
\$	MHOM-Y	-YAW NEN INFULSE -BOLL MIN INFULSE	THEORY S 4-7 PAIL
í	MHM-R	-ROLL MET BATCLES	THRESTER 12-15 PALL
,	TRATS		THIS LISTERS THE PARL
	TEXTIO		
•	POHODE		PTTCH CIMEAL OFF
10 11 12	BOLODE		BOLL GMINL OFF
		LEIM ATTACKED	
12	EN3212		1
15 14 18	IS0213		1

1 JUNE 1906

- ЭВ- на въвстионов



BLOCK II APOLLO GAN EQUIPMENT FORTINAL BEREITITO OF SACKE L-VILLAGE REPUTERET 1. DECEMBER BEREITITO OF SACKE L-VILLAGE REPUTER 1. DECEMBER BEREITITO OF SACKE L-VILLAGE REPUTERET 1. DECEMBER BEREITITO OF SACKE L-VILLAGE REPUTER 1. DECEMBER BEREITITO OF SACKE L-VILLAGE REPUTERET 1. DECEMBER BEREITITO OF SACKE L-VILLAGE REP

- 4. STREAM OF A STREET BELLEVI KON EXTREMEN DENTY PROVIDER A TOTAL THE TOTAL THE THE THE TOTAL THE TOTAL
 - 6. COMPLING BATA UNIT (COR) THE COV. AN ALL ELECTRONIC DEVICE IN DEED AS AN INTERFACE ELEMENT INSTYNEN AN THE DEVICE IN AND COMPUTER SESSIVITEM. (IN THE OPTICAL SHEWS AND COMPUTE SIGN STEEM, (C) COMPUTE SHEWSTERM AND THE CONTROLS. THEN USE IN PRIMARY AN ANALOG TO DIGITAL OR DIGITAL TO ANALOG CONVERTS. AND IS MANUFACTURED BY AC ELECTRONICS.

BY RAYTHEON COMPANY.

AND IS MANUFACTURED BY AC ELECTRONICS.

POWER & SERVO ASSEMBLY (PSA) - PROVIDES A CENTRALIZED PACKAG
BIG FOR THE GAN SYSTEM POWER SUPPLES AND A MANORITY OF GASYSTEM ELECTRONICS. THE UNIT MANUFACTURED BY AC ELECTRONICS

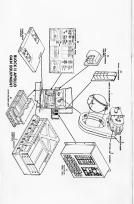
TION TO THE DISPLAY AND CONTROL PANEL. THIS UNIT MANUFACTURES

GAR DESCATOR CONTROL_PARSE. - PROVIDES THE OPERATOR WITH CONTROL FOR (I) MANUAL PROTECTIONS OF THE OFFICE AS MARKLESTED OF OF OFFICAL MODE CONTROL (I) MANUAL MARKUVERING OF THE SPACECIARY. THIS URIT MANUACTURED BY AC ELECTRONICS. SASEMBLY (PEA) - CONTROL THE MADORITY OF THE ELECTRONICS. SASEMBLY (PEA) - CONTROL THE MADORITY OF THE ACCESSION REVENUES OF THE OPERATOR OF THE ACCESSIONS THE CONTROL OF THE ACCESSIONS TO THE ACCESSION TO THE ACCESSIONS TO THE ACCESSION TO THE ACCESSIONS TO THE ACCESSION T

LOOPS FOR AN INTANCEMENTS. THIS UNIT MANUFACTURED BY AN ELECTRONICS.

SIGNAL CONDITIONER. THE SIGNAL CONDITIONER PRECEDED VALUE
SIGNALE FROM THE GAS STREEM AND CONDITIONS THEM HOT OR ACCEPTABLE FOR TRIEMPERSON. THIS UNIT MANUFACTURED BY SELECTRONICS.

AC ELECTRONIC



APOLLO LUNAR EXCURSION MODULE PGNCS EQUIPMENT

NT TEATHING

CTIONAL DESCRIPTION OF A POLLO LEM PONCS EQUIPMEN

NOLISMAN INSTITUTENT COMPANY.

ILM OPPELA ESENDEZ/OUS SENDOS (LORS) (REPLACES AUT) PROVIDES
STAR SIGNITION DAVIA FOR SPECIALISMS OF THE DESERVAL SEXPERSICE AND
TRACES THE COMMAND SERVICE MODULE DURING AGESTY, DESERVER AND
SENDISEZVOYS. THE MOST BAN ALL ELECTRONIC DEVIZE PROGRESSOR
VIVILL SIGNIFICATION OF THE COMPACTOR. THE MOST AND THE MOST

 MATGATON BASE ONY BASE) - PROVIDES AN ACCURATE MODERNIO BASE TORI THE ALEMBET OPPICAL PLEESCOPE (AND MOT THE INSTALL MEASUREMENT UNIT. THIS DIST MANUFACTURED BY AC ELECTIONICS.
 LIMI GUIDANCE COMPUTER (LOG) - PERFORMS PITE MAJOR PINOTEONS (A) CALCULATES STEEDING BONALS AND ENDING DECIDITES INCESSED TO KEEP FUE LICK ON THE REQUEST PRAISETVING, (B) PORTIONS TO

PRECISE OFFICEAL MEASUREMENTS, OF POSITIONS THE LOSS TO CREATER
OBLIGHTS, GOOGNOOTH SUBSTRANCE MALTERITIES MEASUREMENT OF THE PROCBUILDY OF THE PROCPLUS PRINTERS FOR THE PROCCONTIGUE PRINTERS FOR THE PROCCONTIGUE PRINTERS FOR THE PROCCONTIGUE PRINTERS FOR THE PROCCONTIGUE PRINTERS FOR THE PROCESSOR OF THE PROCCONTIGUE PRINTERS FOR THE PROCESSOR OF THE PROCFOR THE PROCESSOR OF THE PROCESSOR OF THE PROCFOR THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE
PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE
PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE PROCESSOR OF THE P

PLAY OF DAYA, AND SWYEDN CONFIDENTION TO THE OPERATOR, THE UNIT MANDY ACTURED BY BE ALTERED COMPANY.

OCCUPIED AND THE CODY — THE CODY, AN ALL-ELECTHONIC DETYCE, I CHESTA AS ANY REPERA'S ELECTRON SERVICES, THE POLLOWING, (A) FR AND COMPANY. THE SITE THE COMPANY AND ANY OF THE PROPERTY AND ANY AND COMPANY. THE SITE THE COMPANY SERVICES SHE OF THE PROPERTY AND THE CONTINUE. THE SITE THE STREAM SHE MAD THE COMPANY AND ANY OF DETAIL

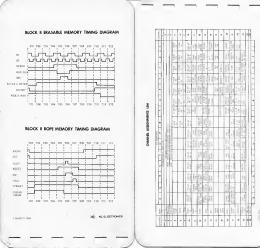
 POWER AND SERVIC ASSEMBLY, UPSA - PROVIDED A CENTRALIZED PACE ASSISTED THE FORE TWEET SUPPLIES AND A MAJORITY OF POWER SERVICES, THOMAS, THE WAT MANUFACTURED BY AC ELECTROBER.
 PILLE TORQUE ASSEMBLY, UPTA - CONTAINS A POWER SUPPLY AND TR MAJORITY OF THE ELECTROMICS REQUESED FOR ACCELEROMETER LOCK

MIJORITY OF THE ELECTHONICS REQUIRED FOR ACCELERANCE RED & V MEASUREMENTS. THE BUILT MANDEACTURED FOR ACCELERANCE.

10. SIGNAL CONDITIONER - THE BUINAL CONDITIONER RECEIVES VARIOUS SIGNAL FOR THE LECTHONICS. THE BUINAL CONDITIONER FOR THE ACCEPTAGE
FOR THE LEMITERINAL THE BUINT MANUFACTURED FOR ELECTHORISM.

AC ELECTRONIC

1 Add	FINSTRUC	TORDES		Distribuc-	TOURS!	
	TEN	CDDE	DESCRIPTION	TION	CODE	DESCRIPTION
	ADK	66.	ADD K	LXCH E	02.2	EXCHANGE LAND E
# / TA \ 1 / ES / ES	ADS E	62.6	ADD TO STORAGE E	MASK K	67.	MASK WITH K
179 125 99	AUG B	12.4	AUCMENT E	MPK	17.	MULTIPLY K
170	ROLL L	11.2 11.4	FRANCH ON ZEBO TO FIXED F	MSKK	07.	MASK K
1 / 20		11.6		MSUE	12.0	MODULAR SUBTRACT
/	SZMP P	16.2	BRANCH ON ZEBO OR MINUS TO	NDK E	05.0	INDEX E
A		16,6	FIXED F	NDK E	15.	INDEX I:
. 8.11	CA K CAE E	68	CLEAR AND ADD K CLEAR AND ADD E	NDOF		NO OPERATION (E)
£ 1.7 A	CAP F	08.	CLEAR AND ADD F	NDOF	TCF I-I	
82 Jr	CCS E	01.0	COUNT, COMPARE, AND SKIP ON E	ONZK	05.4000	OVERFLOW SKIP, TS
/	COM	94,0000	COMPLEMENT A	QXCH E	12-2	EXCHANGE Q AND IS
	CS K	06.	CLEAR AND	RANDII	10.2	READ AND "AND" H
	Crt.	0002	SURTRACT K CYCLE LIFT	BELINT	00.0003	READ H RELEASE INHIBET
	CVB	.0020	CYCLE RIGHT			INTERRUPT
	DASE	00.00	DOUBLE ADD TO STORAGE E	RESUME	95,0017	RESUME INTERBUPE PROCRAM
	DCA K	18.	DOUBLE CLEAR	RETURN	66,0002	RETURN, TOQ
M. I	1100	100	AND ADD K	ROB, H	10.4	READ AND 'OR' B
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	DCS K	14	DOUBLE CLEAR AND SUBTRACT K	EXXOR H	10.6	READ AND EXCLUSIVE TORY H
1 00	DOOM	14,0000	DF COMPLEMENT	SK	,0021	THISA TRIBS
4/1/1	DOCUIL	Q2. 0000	DP DOUBLE	SUE	16.0	SUSTRACT E
W	DBM II	12.6	DIMINISH II	TCAA	05, 4005	TRANSPER CONTRO TO ADDRESS IN A. T
ž d	DOUBLE	06,0000	DOUBLE A	TC K	00.	TRANSFER CONTRO
CONTROL	D7C8	05, 2005	DF TRANSFER CONTROL BOTH BANKS			TOK
1 3 2 Z	DV E	11.0	DAMOE BA E	TOFF	01.2 01.4 01.6	TRANSFER CONTRO TO PEXED F
APOLIO LEM PRIMARY GUIDANCE NAVIGATION AND CONTROL SYSTEM EQUIPMENT	DECH B	65.2	DOUBLE EXCHANGE A AND E	TORK	00.	TC K
MARY	2007	.0023	EDIT OPERATOR	TS E	65.4	TRANSFER TO STOR
≥ 4 0	EXTEND	0.0006	EXTEND		l	E
2 0 ×	INCR E	G2 4	INCREMENT E	WANDE	10.3	WRITE AND "AND" I
OLLO LEM PRI NAVIGATION SYSTEM E	INDEX E	05.0	DIDEX NEXT BASIC DISTRUCTION WITH E	WHITE H	10.5	WRITE AND TORTH
7 5 5 K	INDEX K	15.	INDEX NEXT EXTRA-	XCH E	05.0	EXCHANCE A AND
¥ €	1		OODE INSTRUCTION WITH K	2L	62,2007	ZERO L. LXCH ZER
	DHIEVT	00-0001	DRING INTERBUT	20	12-2007	ZERO Q. QXCH ZER



Divident	+	H	1	•		,	9		9	:	1		2	2	×	×	R	ż	33	
-	Ī	П	I	10,3772	24545		BUT I	TAKY.	2000	yerre.	WILLIAM ACTY	KIN IN	100 E	12000	MAN ANY	WELCH PERCOR				
6				214	10.00		HC7.3	100	CALLED TO	810018		SH N	AGA 34	NUMBER	TOS NEW	NY BAT			ı	
F		I		20.00	2000	ı	NI O	WEEK ACTY	STAR STAR	SAZAK.		ξ×	NCE NC	MCHON.	ATAN NAME BOT	SECTION .			ı	
8	l		ı	9.004	27.4		1000	TONS	SEASON IN	ACCTANA.		202	723	SCRAT	14.6	ANA MAN	20130		i	
6		ľ	ĺ	ourse.		5	1000	200		MACH.		28	100			10017	A55			,
-	l		-	VEC.		0	0.13	TLAST.			CHRO		31926	2010		NECES OF	SCAR			
				40000		24	4 TH	CANCA		0000 m	OSEO.		Make Aspect	CORD PAR.	3000		STAR			
F				Language of the language of th	Г		1711		Days.	See All	gu.				XX.					
	-				Г	Ī	35,477	1157	(ANCORR)		CHES		Г	Corput Corput	TRANS					
-	1	Ŕ	g	-			ALC:UP	CALCOR			CARGO			December 10	Takes					
	10000		TR CHANGE				KELLY		CRESSO OFT BAC		CACAS			Cack	TANK.	ATTOR	DOOR ALTE			ŀ
2	Change tal.	No.	WILLIAM.				1000				2440	Г	Г	real.	TAME		TOO PACE			
0	CZ		109.0				1773	20204	MAT DEC		2000		Г	Date FAS.	0001		100			1
2		l				ľ	1000		100	100	CRON			80 7 00 860,883	TANK TANK		N ADD		CHIE	
-						ľ	PERSON.		NET CONT.	DWILL	STATE			100	C C ALITS		000	100	100	,
HOUSE.	-	SOLDER.	5/31280	YANT	BOUT.	- COURT	1000	1000	9	994	191	MARK (2007)	NAV	conc	TUNG	DENTAL	Cerres	1204,000	College	ĺ
XXOUX	-	+		-		ŀ		-	9	9		20		2	E	2	2	7	-	

APOLLO MISSIONS

MERCA	OWECTIVE	CSM	LEM	<
		FIR	-	
201	SUB-GREETAL, SHORT RANGE LOS SHOT TEST OF CISH AND LAUNCH VEHICLE 60 MINUTES	609		
203	100 MEE CIRCULAS OBST LICCIO INVOSOGIN EXPERIMENT UNDER ZURO GRAVITY. 3 REVOLUTIONS	Fine	. 5	Ju
202	SUB-OBJECTAL. LONG BANCE LOS SHOT TEST OF COM AND LAUNCH VEHICLE 1.5 DOUGS	661		Γ.
204A	EARTH CREET. FIRST MANNED LONG DURNTION TEST OF CSM. 0-04 DAYS	642		
2045	CONTINGENCY FOR 201 AND 252 EARTH ORBIT. 5-7 HOURS	602		1
205A	CSM. 10-14 DAYS, MANNED	604	-	
2058	UNMANNED CONTINUENCY FOR 200A			
501	IST SATURN Y TEST OF HEAT SHEELD DEVELOPMENT 2 or 3 SEVOLUTIONS	17	LTA #10	T/SW
2014	TEST OF LEM DEVELOPMENT. 19 HOURS	BP 50	-1	603
2068	TEST OF LEM DEVELOPMENT, 3 DAYS, MANNED	101	1	
500	SATURN PLIGHT TEST OF HEAT SHELD DEVELORMENT 12 HOURS	600	LTA #2	
207A	SATURN Y LIGHT OPERATIONAL TEST OF CEN AND LEN 3.5 DAYS. MANNED	364	2	665
2075	SATURN FLIGHT OPERATIONAL TEST OF CSN AND LEM 3.5 DAYS, MANNED	100	2	665
503	FIRST MAJORIO FLIGHT TO THE MOON 0-14 DAYS	100	3	606
205	ALTERNATE LUNAR PLICHT FOR 505	100	3	666
504	LUNAR LANDING E DAYS	108	4	607

Propertity O. H. Costine
AC SILECTRONOS