



Apollo

**GUIDANCE
AND
NAVIGATION**

Apollo 13

ELEMENT 10

**LGC
Data Cards**



BELOG ELECTRONICS

BOOK II BASIC INSTRUCTIONS

INSTR. NO.	INSTR. CODE	DESCRIPTION	INSTR. NO.	INSTR. CODE	DESCRIPTION
001 0	00	START	0000	00.0	TRANSFER 1, 0000
001 1	00.1	LOAD INSTRUCTIONS 1	0001	00.	STORE 0000
001 2	00.2	TRANSFER 1	00 2	00.	TRANSFER 2
001 3	00.3	TRANSFER INSTRUCTIONS 1 TO 0000			
	00.4		0000	00.0	TRANSFER INSTRUCTIONS 2
0001 0	00.0	TRANSFER INSTRUCTIONS 1 TO 0000			
	00.1	TRANSFER 1			
	00.2	TRANSFER 2			
00 0	00.	TRANSFER INSTRUCTIONS 1 TO 0000 AND 0001	0000	00.0000	NO OPERATIONS 000
00 1	00.	TRANSFER INSTRUCTIONS 1 TO 0000 AND 0002	0000	000.00	NO OPERATIONS 001
00 2	00.	TRANSFER INSTRUCTIONS 1 TO 0000 AND 0003	0000	0000.000	NO OPERATIONS 002
000 0	00.0	TRANSFER INSTRUCTIONS 1 TO 0000, 0001, AND 0002	0000	00.0000	OPERATIONS 000 TO 0
			0001	00.0	OPERATIONS 000 TO 1
000 1	00.0000	TRANSFER INSTRUCTIONS 1	0000	00.0	OPERATIONS 000 TO 0
000 2	00.	TRANSFER INSTRUCTIONS 1 TO 0000 AND 00000000	0000	00.0	TRANSFER
000.	0000	TRANSFER INSTRUCTIONS 1 TO 0000	0000	00.0000	TRANSFER INSTRUCTIONS 00000000
000 0	00.0	TRANSFER INSTRUCTIONS 1 TO 0000	000000	00.0000	TRANSFER OPERATIONS 00000000
000 1	00.	TRANSFER INSTRUCTIONS 1 TO 0000 AND 00000000	000000	00.0000	TRANSFER OPERATIONS 00000000
000 2	00.	TRANSFER INSTRUCTIONS 1 TO 0000 AND 00000000	000000	00.0000	TRANSFER OPERATIONS 00000000
0000 0	00.0000	TRANSFER INSTRUCTIONS 1 TO 0000, 0001, AND 0002	00	0000	TRANSFER OPERATIONS
000000	00.0000	NO OPERATIONS 000	00 0	00.0	TRANSFER 0
0000.	00.0	TRANSFER 0	0000	00.0000	TRANSFER OPERATIONS TO INSTRUCTIONS 00.0 TO 0
0000 0	00.0000	TRANSFER 0	0000	00.	TRANSFER OPERATIONS 0000
0000 1	00.0000	TRANSFER OPERATIONS TO INSTRUCTIONS 00.0 TO 0	000 0	00.0	TRANSFER OPERATIONS TO INSTRUCTIONS 00.0 TO 0
00 0	00.0	TRANSFER 0			
000 0	00.0	TRANSFER OPERATIONS TO INSTRUCTIONS 0.0 TO 0.0 TO 0			
0000	0000	NO OPERATIONS	00 0	00.0	TRANSFER TO OPERATIONS 0
000000	00.0000	TRANSFER	000000	00.0	TRANSFER OPERATIONS TO
000 0	00.0	TRANSFER 0	0000	00.0	TRANSFER OPERATIONS TO
0000 0	00.0	TRANSFER OPERATIONS TO INSTRUCTIONS 00.0 TO 0	0000 00	00.0	TRANSFER 0
0000 1	00.	TRANSFER OPERATIONS TO INSTRUCTIONS 00.0 TO 0	000 0	00.0	TRANSFER OPERATIONS TO
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00000	00.0000	TRANSFER OPERATIONS TO	00	00.0000	TRANSFER OPERATIONS TO

NOLAN CODES

DATE: 10/15/77

BY: J. J. NOLAN

REVISION
NO. 1

NO.	DESCRIPTION	UNIT	QTY	PRICE	TOTAL	TAX	NET
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HOUR CODES (CONT)

DATE ACQUIRED		ACQUISITION & RELEASE			REMARKS
21	1970-01-01 1970-01-01	1 1000	1000-00	1000	1
22	1970-01-01 1970-01-01	1 1000	1000-00	1000	2
23	1970-01-01 1970-01-01	1 1000	1000-00	1000	3
24	1970-01-01 1970-01-01	1 1000	1000-00	1000	4
25	1970-01-01 1970-01-01	1 1000	1000-00	1000	5
26	1970-01-01 1970-01-01	1 1000	1000-00	1000	6
27	1970-01-01 1970-01-01	1 1000	1000-00	1000	7
28	1970-01-01 1970-01-01	1 1000	1000-00	1000	8
29	1970-01-01 1970-01-01	1 1000	1000-00	1000	9
30	1970-01-01 1970-01-01	1 1000	1000-00	1000	10
31	1970-01-01 1970-01-01	1 1000	1000-00	1000	11
32	1970-01-01 1970-01-01	1 1000	1000-00	1000	12
33	1970-01-01 1970-01-01	1 1000	1000-00	1000	13
34	1970-01-01 1970-01-01	1 1000	1000-00	1000	14
35	1970-01-01 1970-01-01	1 1000	1000-00	1000	15
36	1970-01-01 1970-01-01	1 1000	1000-00	1000	16
37	1970-01-01 1970-01-01	1 1000	1000-00	1000	17
38	1970-01-01 1970-01-01	1 1000	1000-00	1000	18
39	1970-01-01 1970-01-01	1 1000	1000-00	1000	19
40	1970-01-01 1970-01-01	1 1000	1000-00	1000	20
41	1970-01-01 1970-01-01	1 1000	1000-00	1000	21
42	1970-01-01 1970-01-01	1 1000	1000-00	1000	22
43	1970-01-01 1970-01-01	1 1000	1000-00	1000	23
44	1970-01-01 1970-01-01	1 1000	1000-00	1000	24
45	1970-01-01 1970-01-01	1 1000	1000-00	1000	25
46	1970-01-01 1970-01-01	1 1000	1000-00	1000	26
47	1970-01-01 1970-01-01	1 1000	1000-00	1000	27
48	1970-01-01 1970-01-01	1 1000	1000-00	1000	28
49	1970-01-01 1970-01-01	1 1000	1000-00	1000	29
50	1970-01-01 1970-01-01	1 1000	1000-00	1000	30

MOUNT STORAGE REGISTER NAME(S)

Page	Mount Type	Case	Reference	Date	Description
1					
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ALARM CODES

Code	Description	Message
0000	Normal operation	Normal
0001	Temperature sensor failure	Temperature sensor failure
0002	Pressure sensor failure	Pressure sensor failure
0003	Flow sensor failure	Flow sensor failure
0004	Level sensor failure	Level sensor failure
0005	Motor failure	Motor failure
0006	Control system failure	Control system failure
0007	Power supply failure	Power supply failure
0008	Communication failure	Communication failure
0009	Security breach	Security breach
0010	System shutdown	System shutdown
0011	Emergency stop	Emergency stop
0012	Overload	Overload
0013	Underload	Underload
0014	High pressure	High pressure
0015	Low pressure	Low pressure
0016	High temperature	High temperature
0017	Low temperature	Low temperature
0018	High flow	High flow
0019	Low flow	Low flow
0020	High level	High level
0021	Low level	Low level
0022	Motor stall	Motor stall
0023	Motor overheat	Motor overheat
0024	Control system error	Control system error
0025	Power supply error	Power supply error
0026	Communication error	Communication error
0027	Security alert	Security alert
0028	System fault	System fault
0029	Emergency stop	Emergency stop
0030	Overload	Overload
0031	Underload	Underload
0032	High pressure	High pressure
0033	Low pressure	Low pressure
0034	High temperature	High temperature
0035	Low temperature	Low temperature
0036	High flow	High flow
0037	Low flow	Low flow
0038	High level	High level
0039	Low level	Low level
0040	Motor stall	Motor stall
0041	Motor overheat	Motor overheat
0042	Control system error	Control system error
0043	Power supply error	Power supply error
0044	Communication error	Communication error
0045	Security alert	Security alert
0046	System fault	System fault
0047	Emergency stop	Emergency stop
0048	Overload	Overload
0049	Underload	Underload
0050	High pressure	High pressure
0051	Low pressure	Low pressure
0052	High temperature	High temperature
0053	Low temperature	Low temperature
0054	High flow	High flow
0055	Low flow	Low flow
0056	High level	High level
0057	Low level	Low level
0058	Motor stall	Motor stall
0059	Motor overheat	Motor overheat
0060	Control system error	Control system error
0061	Power supply error	Power supply error
0062	Communication error	Communication error
0063	Security alert	Security alert
0064	System fault	System fault
0065	Emergency stop	Emergency stop
0066	Overload	Overload
0067	Underload	Underload
0068	High pressure	High pressure
0069	Low pressure	Low pressure
0070	High temperature	High temperature
0071	Low temperature	Low temperature
0072	High flow	High flow
0073	Low flow	Low flow
0074	High level	High level
0075	Low level	Low level
0076	Motor stall	Motor stall
0077	Motor overheat	Motor overheat
0078	Control system error	Control system error
0079	Power supply error	Power supply error
0080	Communication error	Communication error
0081	Security alert	Security alert
0082	System fault	System fault
0083	Emergency stop	Emergency stop
0084	Overload	Overload
0085	Underload	Underload
0086	High pressure	High pressure
0087	Low pressure	Low pressure
0088	High temperature	High temperature
0089	Low temperature	Low temperature
0090	High flow	High flow
0091	Low flow	Low flow
0092	High level	High level
0093	Low level	Low level
0094	Motor stall	Motor stall
0095	Motor overheat	Motor overheat
0096	Control system error	Control system error
0097	Power supply error	Power supply error
0098	Communication error	Communication error
0099	Security alert	Security alert

LDC PROGRAMS AND MAJOR ROUTINES

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USC PROGRAMS AND MAJOR ROUTINES (CONT)

PROGRAM	ROUTINE
USC	USC ADMIN
USC	USC ADMIN 2
USC	USC ADMIN 3 (USC ADMIN 3) (USC ADMIN 3) (USC ADMIN 3)
USC	USC ADMIN 4 (USC ADMIN 4) (USC ADMIN 4) (USC ADMIN 4)
USC	USC ADMIN 5 (USC ADMIN 5) (USC ADMIN 5) (USC ADMIN 5)
USC	USC ADMIN 6 (USC ADMIN 6) (USC ADMIN 6) (USC ADMIN 6)
USC	USC ADMIN 7 (USC ADMIN 7) (USC ADMIN 7) (USC ADMIN 7)
USC	USC ADMIN 8 (USC ADMIN 8) (USC ADMIN 8) (USC ADMIN 8)
USC	USC ADMIN 9 (USC ADMIN 9) (USC ADMIN 9) (USC ADMIN 9)
USC	USC ADMIN 10 (USC ADMIN 10) (USC ADMIN 10) (USC ADMIN 10)
USC	USC ADMIN 11 (USC ADMIN 11) (USC ADMIN 11) (USC ADMIN 11)
USC	USC ADMIN 12 (USC ADMIN 12) (USC ADMIN 12) (USC ADMIN 12)
USC	USC ADMIN 13 (USC ADMIN 13) (USC ADMIN 13) (USC ADMIN 13)
USC	USC ADMIN 14 (USC ADMIN 14) (USC ADMIN 14) (USC ADMIN 14)
USC	USC ADMIN 15 (USC ADMIN 15) (USC ADMIN 15) (USC ADMIN 15)
USC	USC ADMIN 16 (USC ADMIN 16) (USC ADMIN 16) (USC ADMIN 16)
USC	USC ADMIN 17 (USC ADMIN 17) (USC ADMIN 17) (USC ADMIN 17)
USC	USC ADMIN 18 (USC ADMIN 18) (USC ADMIN 18) (USC ADMIN 18)
USC	USC ADMIN 19 (USC ADMIN 19) (USC ADMIN 19) (USC ADMIN 19)
USC	USC ADMIN 20 (USC ADMIN 20) (USC ADMIN 20) (USC ADMIN 20)
USC	USC ADMIN 21 (USC ADMIN 21) (USC ADMIN 21) (USC ADMIN 21)
USC	USC ADMIN 22 (USC ADMIN 22) (USC ADMIN 22) (USC ADMIN 22)
USC	USC ADMIN 23 (USC ADMIN 23) (USC ADMIN 23) (USC ADMIN 23)
USC	USC ADMIN 24 (USC ADMIN 24) (USC ADMIN 24) (USC ADMIN 24)
USC	USC ADMIN 25 (USC ADMIN 25) (USC ADMIN 25) (USC ADMIN 25)
USC	USC ADMIN 26 (USC ADMIN 26) (USC ADMIN 26) (USC ADMIN 26)
USC	USC ADMIN 27 (USC ADMIN 27) (USC ADMIN 27) (USC ADMIN 27)
USC	USC ADMIN 28 (USC ADMIN 28) (USC ADMIN 28) (USC ADMIN 28)
USC	USC ADMIN 29 (USC ADMIN 29) (USC ADMIN 29) (USC ADMIN 29)
USC	USC ADMIN 30 (USC ADMIN 30) (USC ADMIN 30) (USC ADMIN 30)
USC	USC ADMIN 31 (USC ADMIN 31) (USC ADMIN 31) (USC ADMIN 31)
USC	USC ADMIN 32 (USC ADMIN 32) (USC ADMIN 32) (USC ADMIN 32)
USC	USC ADMIN 33 (USC ADMIN 33) (USC ADMIN 33) (USC ADMIN 33)
USC	USC ADMIN 34 (USC ADMIN 34) (USC ADMIN 34) (USC ADMIN 34)
USC	USC ADMIN 35 (USC ADMIN 35) (USC ADMIN 35) (USC ADMIN 35)
USC	USC ADMIN 36 (USC ADMIN 36) (USC ADMIN 36) (USC ADMIN 36)
USC	USC ADMIN 37 (USC ADMIN 37) (USC ADMIN 37) (USC ADMIN 37)
USC	USC ADMIN 38 (USC ADMIN 38) (USC ADMIN 38) (USC ADMIN 38)
USC	USC ADMIN 39 (USC ADMIN 39) (USC ADMIN 39) (USC ADMIN 39)
USC	USC ADMIN 40 (USC ADMIN 40) (USC ADMIN 40) (USC ADMIN 40)
USC	USC ADMIN 41 (USC ADMIN 41) (USC ADMIN 41) (USC ADMIN 41)
USC	USC ADMIN 42 (USC ADMIN 42) (USC ADMIN 42) (USC ADMIN 42)
USC	USC ADMIN 43 (USC ADMIN 43) (USC ADMIN 43) (USC ADMIN 43)
USC	USC ADMIN 44 (USC ADMIN 44) (USC ADMIN 44) (USC ADMIN 44)
USC	USC ADMIN 45 (USC ADMIN 45) (USC ADMIN 45) (USC ADMIN 45)
USC	USC ADMIN 46 (USC ADMIN 46) (USC ADMIN 46) (USC ADMIN 46)
USC	USC ADMIN 47 (USC ADMIN 47) (USC ADMIN 47) (USC ADMIN 47)
USC	USC ADMIN 48 (USC ADMIN 48) (USC ADMIN 48) (USC ADMIN 48)
USC	USC ADMIN 49 (USC ADMIN 49) (USC ADMIN 49) (USC ADMIN 49)
USC	USC ADMIN 50 (USC ADMIN 50) (USC ADMIN 50) (USC ADMIN 50)

LOG PROGRAMS AND MAJOR ROUTINES (CONT)

ADDRESS	TITLE
000	STARTUP (INIT & LOGON)
001	DATA REQUEST
002	FEEDBACK TRAINING
003	WORK UNIT
004	DELEGATE UNIT SERVICE
005	LOCAL SERVICE SERVICE CLASS
006	STATION MANAGER
007	PERFORMING TRAINING SERVICE
008	TRAIN SERVICE MANAGER
009	MANAGING UNIT SERVICE
010	END PERFORMANCE TRAINING SERVICE
011	PERFORMING UNIT SERVICE
012	END SERVICE UNIT

FLAGWORD 8

(1964-1965)

	NO.	WORD	DEFINITION
ABSTRACT	10	NOT CONCRETE	NOT OF ANY ONE SPECIFIC THING
ADVICE	11	RECOMMENDATION OR SUGGESTION	RECOMMENDATION OR SUGGESTION
ADVANCE	12	PROGRESSIVE STATE	PROGRESSIVE STATE
ADVANTAGE	13	BENEFIT OR GAIN	BENEFIT OR GAIN
ADVISE	14	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	15	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	16	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	17	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	18	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	19	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	20	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	21	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	22	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	23	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	24	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	25	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	26	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	27	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	28	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	29	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	30	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	31	TO TELL OF SOMETHING	TO TELL OF SOMETHING
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ADVISE	35	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	36	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	37	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	38	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	39	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	40	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	41	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	42	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	43	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	44	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	45	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	46	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	47	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	48	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	49	TO TELL OF SOMETHING	TO TELL OF SOMETHING
ADVISE	50	TO TELL OF SOMETHING	TO TELL OF SOMETHING

FLASHWORD 4

QUESTION	ANSWER	QUESTION	ANSWER
QUESTION	1. What is the primary purpose of a contract?	QUESTION	1. What is the primary purpose of a contract?
QUESTION	2. What are the essential elements of a contract?	QUESTION	2. What are the essential elements of a contract?
QUESTION	3. What is the difference between a contract and a promise?	QUESTION	3. What is the difference between a contract and a promise?
QUESTION	4. What is the legal effect of a contract?	QUESTION	4. What is the legal effect of a contract?
QUESTION	5. What is the legal effect of a contract that is voidable?	QUESTION	5. What is the legal effect of a contract that is voidable?
QUESTION	6. What is the legal effect of a contract that is unenforceable?	QUESTION	6. What is the legal effect of a contract that is unenforceable?
QUESTION	7. What is the legal effect of a contract that is rescinded?	QUESTION	7. What is the legal effect of a contract that is rescinded?
QUESTION	8. What is the legal effect of a contract that is discharged?	QUESTION	8. What is the legal effect of a contract that is discharged?
QUESTION	9. What is the legal effect of a contract that is frustrated?	QUESTION	9. What is the legal effect of a contract that is frustrated?
QUESTION	10. What is the legal effect of a contract that is terminated?	QUESTION	10. What is the legal effect of a contract that is terminated?
QUESTION	11. What is the legal effect of a contract that is breached?	QUESTION	11. What is the legal effect of a contract that is breached?
QUESTION	12. What is the legal effect of a contract that is repudiated?	QUESTION	12. What is the legal effect of a contract that is repudiated?
QUESTION	13. What is the legal effect of a contract that is assigned?	QUESTION	13. What is the legal effect of a contract that is assigned?
QUESTION	14. What is the legal effect of a contract that is novated?	QUESTION	14. What is the legal effect of a contract that is novated?
QUESTION	15. What is the legal effect of a contract that is substituted?	QUESTION	15. What is the legal effect of a contract that is substituted?
QUESTION	16. What is the legal effect of a contract that is amended?	QUESTION	16. What is the legal effect of a contract that is amended?
QUESTION	17. What is the legal effect of a contract that is modified?	QUESTION	17. What is the legal effect of a contract that is modified?
QUESTION	18. What is the legal effect of a contract that is varied?	QUESTION	18. What is the legal effect of a contract that is varied?
QUESTION	19. What is the legal effect of a contract that is discharged by agreement?	QUESTION	19. What is the legal effect of a contract that is discharged by agreement?
QUESTION	20. What is the legal effect of a contract that is discharged by operation of law?	QUESTION	20. What is the legal effect of a contract that is discharged by operation of law?
QUESTION	21. What is the legal effect of a contract that is discharged by frustration?	QUESTION	21. What is the legal effect of a contract that is discharged by frustration?
QUESTION	22. What is the legal effect of a contract that is discharged by termination?	QUESTION	22. What is the legal effect of a contract that is discharged by termination?
QUESTION	23. What is the legal effect of a contract that is discharged by breach?	QUESTION	23. What is the legal effect of a contract that is discharged by breach?
QUESTION	24. What is the legal effect of a contract that is discharged by repudiation?	QUESTION	24. What is the legal effect of a contract that is discharged by repudiation?
QUESTION	25. What is the legal effect of a contract that is discharged by assignment?	QUESTION	25. What is the legal effect of a contract that is discharged by assignment?
QUESTION	26. What is the legal effect of a contract that is discharged by novation?	QUESTION	26. What is the legal effect of a contract that is discharged by novation?
QUESTION	27. What is the legal effect of a contract that is discharged by substitution?	QUESTION	27. What is the legal effect of a contract that is discharged by substitution?
QUESTION	28. What is the legal effect of a contract that is discharged by amendment?	QUESTION	28. What is the legal effect of a contract that is discharged by amendment?
QUESTION	29. What is the legal effect of a contract that is discharged by modification?	QUESTION	29. What is the legal effect of a contract that is discharged by modification?
QUESTION	30. What is the legal effect of a contract that is discharged by variation?	QUESTION	30. What is the legal effect of a contract that is discharged by variation?

FLAWORD 5

(July 1981)

WORD	DEF.	DEF.	DEF.
ACQUAINT	27	TO BECOME ACQUAINTED BY KNOWING	TO BECOME ACQUAINTED
ACQUAINTANCE	24	THE KNOWLEDGE OF PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONAL KNOWLEDGE OF PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTED	23	TO BE ACQUAINTED BY KNOWING	TO BE ACQUAINTED BY KNOWING
ACQUAINTS	26	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTS	21	TO BE ACQUAINTED BY KNOWING	TO BE ACQUAINTED BY KNOWING
ACQUAINTS	22	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTS	2	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTS	8	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTS	7	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTS	6	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTS	5	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTS	4	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTS	3	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED
ACQUAINTS	1	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED	PERSONS WITH WHOM ONE HAS BECOME ACQUAINTED

FLAGMERS &

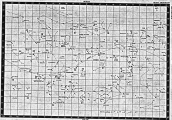
PLATE 100

NAME	AGE	SEX	CLASS
ALBERT	22	M	First Year
ALBERT	22	M	Second Year
ALBERT	22	M	Third Year
ALBERT	22	M	Fourth Year
ALBERT	22	M	Fifth Year
ALBERT	22	M	Sixth Year
ALBERT	22	M	Seventh Year
ALBERT	22	M	Eighth Year
ALBERT	22	M	Ninth Year
ALBERT	22	M	Tenth Year
ALBERT	22	M	Eleventh Year
ALBERT	22	M	Twelfth Year
ALBERT	22	M	Thirteenth Year
ALBERT	22	M	Fourteenth Year
ALBERT	22	M	Fifteenth Year
ALBERT	22	M	Sixteenth Year
ALBERT	22	M	Seventeenth Year
ALBERT	22	M	Eighteenth Year
ALBERT	22	M	Nineteenth Year
ALBERT	22	M	Twentieth Year
ALBERT	22	M	Twenty-first Year
ALBERT	22	M	Twenty-second Year
ALBERT	22	M	Twenty-third Year
ALBERT	22	M	Twenty-fourth Year
ALBERT	22	M	Twenty-fifth Year
ALBERT	22	M	Twenty-sixth Year
ALBERT	22	M	Twenty-seventh Year
ALBERT	22	M	Twenty-eighth Year
ALBERT	22	M	Twenty-ninth Year
ALBERT	22	M	Thirtieth Year
ALBERT	22	M	Thirty-first Year
ALBERT	22	M	Thirty-second Year
ALBERT	22	M	Thirty-third Year
ALBERT	22	M	Thirty-fourth Year
ALBERT	22	M	Thirty-fifth Year
ALBERT	22	M	Thirty-sixth Year
ALBERT	22	M	Thirty-seventh Year
ALBERT	22	M	Thirty-eighth Year
ALBERT	22	M	Thirty-ninth Year
ALBERT	22	M	Fortieth Year
ALBERT	22	M	Forty-first Year
ALBERT	22	M	Forty-second Year
ALBERT	22	M	Forty-third Year
ALBERT	22	M	Forty-fourth Year
ALBERT	22	M	Forty-fifth Year
ALBERT	22	M	Forty-sixth Year
ALBERT	22	M	Forty-seventh Year
ALBERT	22	M	Forty-eighth Year
ALBERT	22	M	Forty-ninth Year
ALBERT	22	M	Fiftieth Year

FLIGHTS TO (RANGE)

RANGE NAME

NAME	NO.	DESCRIPTION	CLASS
ALBANY	12	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	13	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	14	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	15	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	16	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	17	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	18	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	19	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	20	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	21	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	22	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	23	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	24	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	25	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	26	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	27	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	28	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	29	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	30	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	31	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	32	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	33	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	34	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	35	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	36	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	37	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	38	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	39	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	40	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	41	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	42	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	43	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	44	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	45	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	46	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	47	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	48	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	49	ALBANY AIRPORT	ALBANY AIRPORT
ALBANY	50	ALBANY AIRPORT	ALBANY AIRPORT



STAR/PLANET LIST

Star No.	Name	Star No.	Name	Star No.	Name
1	ALFA CENTAURUS (PROxima)	101	ALFA CENTAURUS (BETA)	201	ALFA CENTAURUS (GAMMA)
2	ALFA CENTAURUS (BETA)	102	ALFA CENTAURUS (GAMMA)	202	ALFA CENTAURUS (DELTA)
3	ALFA CENTAURUS (GAMMA)	103	ALFA CENTAURUS (DELTA)	203	ALFA CENTAURUS (Epsilon)
4	ALFA CENTAURUS (DELTA)	104	ALFA CENTAURUS (Epsilon)	204	ALFA CENTAURUS (ZETA)
5	ALFA CENTAURUS (Epsilon)	105	ALFA CENTAURUS (ZETA)	205	ALFA CENTAURUS (ETA)
6	ALFA CENTAURUS (ZETA)	106	ALFA CENTAURUS (ETA)	206	ALFA CENTAURUS (THETA)
7	ALFA CENTAURUS (ETA)	107	ALFA CENTAURUS (THETA)	207	ALFA CENTAURUS (IOTA)
8	ALFA CENTAURUS (THETA)	108	ALFA CENTAURUS (IOTA)	208	ALFA CENTAURUS (KAPPA)
9	ALFA CENTAURUS (IOTA)	109	ALFA CENTAURUS (KAPPA)	209	ALFA CENTAURUS (LAMBDA)
10	ALFA CENTAURUS (KAPPA)	110	ALFA CENTAURUS (LAMBDA)	210	ALFA CENTAURUS (MUTU)
11	ALFA CENTAURUS (LAMBDA)	111	ALFA CENTAURUS (MUTU)	211	ALFA CENTAURUS (NUN)
12	ALFA CENTAURUS (MUTU)	112	ALFA CENTAURUS (NUN)	212	ALFA CENTAURUS (XI)
13	ALFA CENTAURUS (NUN)	113	ALFA CENTAURUS (XI)	213	ALFA CENTAURUS (XII)
14	ALFA CENTAURUS (XI)	114	ALFA CENTAURUS (XII)	214	ALFA CENTAURUS (XIII)
15	ALFA CENTAURUS (XII)	115	ALFA CENTAURUS (XIII)	215	ALFA CENTAURUS (XIV)
16	ALFA CENTAURUS (XIII)	116	ALFA CENTAURUS (XIV)	216	ALFA CENTAURUS (XV)
17	ALFA CENTAURUS (XIV)	117	ALFA CENTAURUS (XV)	217	ALFA CENTAURUS (XVI)
18	ALFA CENTAURUS (XV)	118	ALFA CENTAURUS (XVI)	218	ALFA CENTAURUS (XVII)
19	ALFA CENTAURUS (XVI)	119	ALFA CENTAURUS (XVII)	219	ALFA CENTAURUS (XVIII)
20	ALFA CENTAURUS (XVII)	120	ALFA CENTAURUS (XVIII)	220	ALFA CENTAURUS (XIX)
21	ALFA CENTAURUS (XVIII)	121	ALFA CENTAURUS (XIX)	221	ALFA CENTAURUS (XX)
22	ALFA CENTAURUS (XIX)	122	ALFA CENTAURUS (XX)	222	ALFA CENTAURUS (XXI)
23	ALFA CENTAURUS (XX)	123	ALFA CENTAURUS (XXI)	223	ALFA CENTAURUS (XXII)
24	ALFA CENTAURUS (XXI)	124	ALFA CENTAURUS (XXII)	224	ALFA CENTAURUS (XXIII)
25	ALFA CENTAURUS (XXII)	125	ALFA CENTAURUS (XXIII)	225	ALFA CENTAURUS (XXIV)
26	ALFA CENTAURUS (XXIII)	126	ALFA CENTAURUS (XXIV)	226	ALFA CENTAURUS (XXV)
27	ALFA CENTAURUS (XXIV)	127	ALFA CENTAURUS (XXV)	227	ALFA CENTAURUS (XXVI)
28	ALFA CENTAURUS (XXV)	128	ALFA CENTAURUS (XXVI)	228	ALFA CENTAURUS (XXVII)
29	ALFA CENTAURUS (XXVI)	129	ALFA CENTAURUS (XXVII)	229	ALFA CENTAURUS (XXVIII)
30	ALFA CENTAURUS (XXVII)	130	ALFA CENTAURUS (XXVIII)	230	ALFA CENTAURUS (XXIX)
31	ALFA CENTAURUS (XXVIII)	131	ALFA CENTAURUS (XXIX)	231	ALFA CENTAURUS (XXX)
32	ALFA CENTAURUS (XXIX)	132	ALFA CENTAURUS (XXX)	232	ALFA CENTAURUS (XXXI)
33	ALFA CENTAURUS (XXX)	133	ALFA CENTAURUS (XXXI)	233	ALFA CENTAURUS (XXXII)
34	ALFA CENTAURUS (XXXI)	134	ALFA CENTAURUS (XXXII)	234	ALFA CENTAURUS (XXXIII)
35	ALFA CENTAURUS (XXXII)	135	ALFA CENTAURUS (XXXIII)	235	ALFA CENTAURUS (XXXIV)
36	ALFA CENTAURUS (XXXIII)	136	ALFA CENTAURUS (XXXIV)	236	ALFA CENTAURUS (XXXV)
37	ALFA CENTAURUS (XXXIV)	137	ALFA CENTAURUS (XXXV)	237	ALFA CENTAURUS (XXXVI)
38	ALFA CENTAURUS (XXXV)	138	ALFA CENTAURUS (XXXVI)	238	ALFA CENTAURUS (XXXVII)
39	ALFA CENTAURUS (XXXVI)	139	ALFA CENTAURUS (XXXVII)	239	ALFA CENTAURUS (XXXVIII)
40	ALFA CENTAURUS (XXXVII)	140	ALFA CENTAURUS (XXXVIII)	240	ALFA CENTAURUS (XXXIX)
41	ALFA CENTAURUS (XXXVIII)	141	ALFA CENTAURUS (XXXIX)	241	ALFA CENTAURUS (XL)
42	ALFA CENTAURUS (XXXIX)	142	ALFA CENTAURUS (XL)	242	ALFA CENTAURUS (XLI)
43	ALFA CENTAURUS (XL)	143	ALFA CENTAURUS (XLI)	243	ALFA CENTAURUS (XLII)
44	ALFA CENTAURUS (XLI)	144	ALFA CENTAURUS (XLII)	244	ALFA CENTAURUS (XLIII)
45	ALFA CENTAURUS (XLII)	145	ALFA CENTAURUS (XLIII)	245	ALFA CENTAURUS (XLIV)
46	ALFA CENTAURUS (XLIII)	146	ALFA CENTAURUS (XLIV)	246	ALFA CENTAURUS (XLV)
47	ALFA CENTAURUS (XLIV)	147	ALFA CENTAURUS (XLV)	247	ALFA CENTAURUS (XLVI)
48	ALFA CENTAURUS (XLV)	148	ALFA CENTAURUS (XLVI)	248	ALFA CENTAURUS (XLVII)
49	ALFA CENTAURUS (XLVI)	149	ALFA CENTAURUS (XLVII)	249	ALFA CENTAURUS (XLVIII)
50	ALFA CENTAURUS (XLVII)	150	ALFA CENTAURUS (XLVIII)	250	ALFA CENTAURUS (XLIX)
51	ALFA CENTAURUS (XLVIII)	151	ALFA CENTAURUS (XLIX)	251	ALFA CENTAURUS (L)
52	ALFA CENTAURUS (XLIX)	152	ALFA CENTAURUS (L)	252	ALFA CENTAURUS (LI)
53	ALFA CENTAURUS (L)	153	ALFA CENTAURUS (LI)	253	ALFA CENTAURUS (LII)
54	ALFA CENTAURUS (LI)	154	ALFA CENTAURUS (LII)	254	ALFA CENTAURUS (LIII)
55	ALFA CENTAURUS (LII)	155	ALFA CENTAURUS (LIII)	255	ALFA CENTAURUS (LIV)
56	ALFA CENTAURUS (LIII)	156	ALFA CENTAURUS (LIV)	256	ALFA CENTAURUS (LV)
57	ALFA CENTAURUS (LIV)	157	ALFA CENTAURUS (LV)	257	ALFA CENTAURUS (LVI)
58	ALFA CENTAURUS (LV)	158	ALFA CENTAURUS (LVI)	258	ALFA CENTAURUS (LVII)
59	ALFA CENTAURUS (LVI)	159	ALFA CENTAURUS (LVII)	259	ALFA CENTAURUS (LVIII)
60	ALFA CENTAURUS (LVII)	160	ALFA CENTAURUS (LVIII)	260	ALFA CENTAURUS (LIX)
61	ALFA CENTAURUS (LVIII)	161	ALFA CENTAURUS (LIX)	261	ALFA CENTAURUS (LX)
62	ALFA CENTAURUS (LIX)	162	ALFA CENTAURUS (LX)	262	ALFA CENTAURUS (LXI)
63	ALFA CENTAURUS (LX)	163	ALFA CENTAURUS (LXI)	263	ALFA CENTAURUS (LXII)
64	ALFA CENTAURUS (LXI)	164	ALFA CENTAURUS (LXII)	264	ALFA CENTAURUS (LXIII)
65	ALFA CENTAURUS (LXII)	165	ALFA CENTAURUS (LXIII)	265	ALFA CENTAURUS (LXIV)
66	ALFA CENTAURUS (LXIII)	166	ALFA CENTAURUS (LXIV)	266	ALFA CENTAURUS (LXV)
67	ALFA CENTAURUS (LXIV)	167	ALFA CENTAURUS (LXV)	267	ALFA CENTAURUS (LXVI)
68	ALFA CENTAURUS (LXV)	168	ALFA CENTAURUS (LXVI)	268	ALFA CENTAURUS (LXVII)
69	ALFA CENTAURUS (LXVI)	169	ALFA CENTAURUS (LXVII)	269	ALFA CENTAURUS (LXVIII)
70	ALFA CENTAURUS (LXVII)	170	ALFA CENTAURUS (LXVIII)	270	ALFA CENTAURUS (LXIX)
71	ALFA CENTAURUS (LXVIII)	171	ALFA CENTAURUS (LXIX)	271	ALFA CENTAURUS (LXX)
72	ALFA CENTAURUS (LXIX)	172	ALFA CENTAURUS (LXX)	272	ALFA CENTAURUS (LXXI)
73	ALFA CENTAURUS (LXX)	173	ALFA CENTAURUS (LXXI)	273	ALFA CENTAURUS (LXXII)
74	ALFA CENTAURUS (LXXI)	174	ALFA CENTAURUS (LXXII)	274	ALFA CENTAURUS (LXXIII)
75	ALFA CENTAURUS (LXXII)	175	ALFA CENTAURUS (LXXIII)	275	ALFA CENTAURUS (LXXIV)
76	ALFA CENTAURUS (LXXIII)	176	ALFA CENTAURUS (LXXIV)	276	ALFA CENTAURUS (LXXV)
77	ALFA CENTAURUS (LXXIV)	177	ALFA CENTAURUS (LXXV)	277	ALFA CENTAURUS (LXXVI)
78	ALFA CENTAURUS (LXXV)	178	ALFA CENTAURUS (LXXVI)	278	ALFA CENTAURUS (LXXVII)
79	ALFA CENTAURUS (LXXVI)	179	ALFA CENTAURUS (LXXVII)	279	ALFA CENTAURUS (LXXVIII)
80	ALFA CENTAURUS (LXXVII)	180	ALFA CENTAURUS (LXXVIII)	280	ALFA CENTAURUS (LXXIX)
81	ALFA CENTAURUS (LXXVIII)	181	ALFA CENTAURUS (LXXIX)	281	ALFA CENTAURUS (LXXX)
82	ALFA CENTAURUS (LXXIX)	182	ALFA CENTAURUS (LXXX)	282	ALFA CENTAURUS (LXXXI)
83	ALFA CENTAURUS (LXXX)	183	ALFA CENTAURUS (LXXXI)	283	ALFA CENTAURUS (LXXXII)
84	ALFA CENTAURUS (LXXXI)	184	ALFA CENTAURUS (LXXXII)	284	ALFA CENTAURUS (LXXXIII)
85	ALFA CENTAURUS (LXXXII)	185	ALFA CENTAURUS (LXXXIII)	285	ALFA CENTAURUS (LXXXIV)
86	ALFA CENTAURUS (LXXXIII)	186	ALFA CENTAURUS (LXXXIV)	286	ALFA CENTAURUS (LXXXV)
87	ALFA CENTAURUS (LXXXIV)	187	ALFA CENTAURUS (LXXXV)	287	ALFA CENTAURUS (LXXXVI)
88	ALFA CENTAURUS (LXXXV)	188	ALFA CENTAURUS (LXXXVI)	288	ALFA CENTAURUS (LXXXVII)
89	ALFA CENTAURUS (LXXXVI)	189	ALFA CENTAURUS (LXXXVII)	289	ALFA CENTAURUS (LXXXVIII)
90	ALFA CENTAURUS (LXXXVII)	190	ALFA CENTAURUS (LXXXVIII)	290	ALFA CENTAURUS (LXXXIX)
91	ALFA CENTAURUS (LXXXVIII)	191	ALFA CENTAURUS (LXXXIX)	291	ALFA CENTAURUS (LXXXX)
92	ALFA CENTAURUS (LXXXIX)	192	ALFA CENTAURUS (LXXXX)	292	ALFA CENTAURUS (LXXXXI)
93	ALFA CENTAURUS (LXXXX)	193	ALFA CENTAURUS (LXXXXI)	293	ALFA CENTAURUS (LXXXXII)
94	ALFA CENTAURUS (LXXXXI)	194	ALFA CENTAURUS (LXXXXII)	294	ALFA CENTAURUS (LXXXXIII)
95	ALFA CENTAURUS (LXXXXII)	195	ALFA CENTAURUS (LXXXXIII)	295	ALFA CENTAURUS (LXXXXIV)
96	ALFA CENTAURUS (LXXXXIII)	196	ALFA CENTAURUS (LXXXXIV)	296	ALFA CENTAURUS (LXXXXV)
97	ALFA CENTAURUS (LXXXXIV)	197	ALFA CENTAURUS (LXXXXV)	297	ALFA CENTAURUS (LXXXXVI)
98	ALFA CENTAURUS (LXXXXV)	198	ALFA CENTAURUS (LXXXXVI)	298	ALFA CENTAURUS (LXXXXVII)
99	ALFA CENTAURUS (LXXXXVI)	199	ALFA CENTAURUS (LXXXXVII)	299	ALFA CENTAURUS (LXXXXVIII)
100	ALFA CENTAURUS (LXXXXVII)	200	ALFA CENTAURUS (LXXXXVIII)	300	ALFA CENTAURUS (LXXXXIX)

Star No.	Name	Star No.	Name	Star No.	Name
301	ALFA CENTAURUS (LXXXXIX)	401	ALFA CENTAURUS (LXXXXIX)	501	ALFA CENTAURUS (LXXXXIX)
302	ALFA CENTAURUS (LXXXXIX)	402	ALFA CENTAURUS (LXXXXIX)	502	ALFA CENTAURUS (LXXXXIX)
303	ALFA CENTAURUS (LXXXXIX)	403	ALFA CENTAURUS (LXXXXIX)	503	ALFA CENTAURUS (LXXXXIX)
304	ALFA CENTAURUS (LXXXXIX)	404	ALFA CENTAURUS (LXXXXIX)	504	ALFA CENTAURUS (LXXXXIX)
305	ALFA CENTAURUS (LXXXXIX)	405	ALFA CENTAURUS (LXXXXIX)	505	ALFA CENTAURUS (LXXXXIX)
306	ALFA CENTAURUS (LXXXXIX)	406	ALFA CENTAURUS (LXXXXIX)	506	ALFA CENTAURUS (LXXXXIX)
307	ALFA CENTAURUS (LXXXXIX)	407	ALFA CENTAURUS (LXXXXIX)	507	ALFA CENTAURUS (LXXXXIX)
308	ALFA CENTAURUS (LXXXXIX)	408	ALFA CENTAURUS (LXXXXIX)	508	ALFA CENTAURUS (LXXXXIX)
309	ALFA CENTAURUS (LXXXXIX)	409	ALFA CENTAURUS (LXXXXIX)	509	ALFA CENTAURUS (LXXXXIX)
310	ALFA CENTAURUS (LXXXXIX)	410	ALFA CENTAURUS (LXXXXIX)	510	ALFA CENTAURUS (LXXXXIX)
311	ALFA CENTAURUS (LXXXXIX)	411	ALFA CENTAURUS (LXXXXIX)	511	ALFA CENTAURUS (LXXXXIX)
312	ALFA CENTAURUS (LXXXXIX)	412	ALFA CENTAURUS (LXXXXIX)	512	ALFA CENTAURUS (LXXXXIX)
313	ALFA CENTAURUS (LXXXXIX)	413	ALFA CENTAURUS (LXXXXIX)	513	ALFA CENTAURUS (LXXXXIX)
314	ALFA CENTAURUS (LXXXXIX)	414	ALFA CENTAURUS (LXXXXIX)	514	ALFA CENTAURUS (LXXXXIX)
315	ALFA CENTAURUS (LXXXXIX)	415	ALFA CENTAURUS (LXXXXIX)	515	ALFA CENTAURUS (LXXXXIX)
316	ALFA CENTAURUS (LXXXXIX)	416	ALFA CENTAURUS (LXXXXIX)	516	ALFA CENTAURUS (LXXXXIX)
317	ALFA CENTAURUS (LXXXXIX)	417	ALFA CENTAURUS (LXXXXIX)	517	ALFA CENTAURUS (LXXXXIX)
318	ALFA CENTAURUS (LXXXXIX)	418	ALFA CENTAURUS (LXXXXIX)	518	ALFA CENTAURUS (LXXXXIX)
319	ALFA CENTAURUS (LXXXXIX)	419	ALFA CENTAURUS (LXXXXIX)	519	ALFA CENTAURUS (LXXXXIX)
320	ALFA CENTAURUS (LXXXXIX)	420	ALFA CENTAURUS (LXXXXIX)	520	ALFA CENTAURUS (LXXXXIX)
321	ALFA CENTAURUS (LXXXXIX)	421	ALFA CENTAURUS (LXXXXIX)	521	ALFA CENTAURUS (LXXXXIX)
322	ALFA CENTAURUS (LXXXXIX)	422	ALFA CENTAURUS (LXXXXIX)	522	ALFA CENTAURUS (LXXXXIX)
323	ALFA CENTAURUS (LXXXXIX)	423	ALFA CENTAURUS (LXXXXIX)	523	ALFA CENTAURUS (LXXXXIX)
324	ALFA CENTAURUS (LXXXXIX)	424	ALFA CENTAURUS (LXXXXIX)	524	ALFA CENTAURUS (LXXXXIX)
325	ALFA CENTAURUS (LXXXXIX)	425	ALFA CENTAURUS (LXXXXIX)	525	ALFA CENTAURUS (LXXXXIX)
326	ALFA CENTAURUS (LXXXXIX)	426	ALFA CENTAURUS (LXXXXIX)	526	ALFA CENTAURUS (LXXXXIX)
327	ALFA CENTAURUS (LXXXXIX)	427	ALFA CENTAURUS (LXXXXIX)	527	ALFA CENTAURUS (LXXXXIX)
328	ALFA CENTAURUS (LXXXXIX)	428	ALFA CENTAURUS (LXXXXIX)	528	ALFA CENTAURUS (LXXXXIX)
329	ALFA CENTAURUS (LXXXXIX)	429	ALFA CENTAURUS (LXXXXIX)	529	ALFA CENTAURUS (LXXXXIX)
330	ALFA CENTAURUS (LXXXXIX)	430	ALFA CENTAURUS (LXXXXIX)	530	ALFA CENTAURUS (LXXXXIX)
331	ALFA CENTAURUS (LXXXXIX)	431	ALFA CENTAURUS (LXXXXIX)	531	ALFA CENTAURUS (LXXXXIX)
332	ALFA CENTAURUS (LXXXXIX)	432	ALFA CENTAURUS (LXXXXIX)	532	ALFA CENTAURUS (LXXXXIX)
333	ALFA CENTAURUS (LXXXXIX)	433	ALFA CENTAURUS (LXXXXIX)	533	ALFA CENTAURUS (LXXXXIX)
334	ALFA CENTAURUS (LXXXXIX)	434	ALFA CENTAURUS (LXXXXIX)	534	ALFA CENTAURUS (LXXXXIX)
335	ALFA CENTAURUS (LXXXXIX)	435	ALFA CENTAURUS (LXXXXIX)	535	ALFA CENTAURUS (LXXXXIX)
336	ALFA CENTAURUS (LXXXXIX)	436	ALFA CENTAURUS (LXXXXIX)	536	ALFA CENTAURUS (LXXXXIX)
337	ALFA CENTAURUS (LXXXXIX)	437	ALFA CENTAURUS (LXXXXIX)	537	ALFA CENTAURUS (LXXXXIX)
338	ALFA CENTAURUS (LXXXXIX)	438	ALFA CENTAURUS (LXXXXIX)	538	ALFA CENTAURUS (LXXXXIX)
339	ALFA CENTAURUS (LXXXXIX)	439	ALFA CENTAURUS (LXXXXIX)	539	ALFA CENTAURUS (LXXXXIX)
340	ALFA CENTAURUS (LXXXXIX)	440	ALFA CENTAURUS (LXXXXIX)	540	ALFA CENTAURUS (LXXXXIX)
341	ALFA CENTAURUS (LXXXXIX)	441	ALFA CENTAURUS (LXXXXIX)	541	ALFA CENTAURUS (LXXXXIX)
342	ALFA CENTAURUS (LXXXXIX)	442	ALFA CENTAURUS (LXXXXIX)	542	ALFA CENTAURUS (LXXXXIX)
343	ALFA CENTAURUS (LXXXXIX)	443	ALFA CENTAURUS (LXXXXIX)	543	ALFA CENTAURUS (LXXXXIX)
344	ALFA CENTAURUS (LXXXXIX)	444	ALFA CENTAURUS (LXXXXIX)	544	ALFA CENTAURUS (LXXXXIX)
345	ALFA CENTAURUS (LXXXXIX)	445	ALFA CENTAURUS (LXXXXIX)	545	ALFA CENTAURUS (LXXXXIX)
346	ALFA CENTAURUS (LXXXXIX)	446	ALFA CENTAURUS (LXXXXIX)	546	ALFA CENTAURUS (LXXXXIX)
347	ALFA CENTAURUS (LXXXXIX)	447	ALFA CENTAURUS (LXXXXIX)	547	ALFA CENTAURUS (LXXXXIX)
348	ALFA CENTAURUS (LXXXXIX)	448	ALFA CENTAURUS (LXXXXIX)	548	ALFA CENTAURUS (LXXXXIX)
349	ALFA CENTAURUS (LXXXXIX)	449	ALFA CENTAURUS (LXXXXIX)	549	ALFA CENTAURUS (LXXXXIX)
350	ALFA CENTAURUS (LXXXXIX)	450	ALFA CENTAURUS (LXXXXIX)	550	ALFA CENTAURUS (LXXXXIX)

LGC COUNTER INTERRUPTS (CONT)

INTERRUPT DESCRIPTION	MODE	ADDRESS	DATA	STATUS
INT 1	ASYNC	00000000	00000000	00000000
INT 2	ASYNC	00000000	00000000	00000000
INT 3	ASYNC	00000000	00000000	00000000

CHANNEL 14 GYRO SELECT

MODE	DATA	STATUS
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7

CHANNEL 13 RADAR DATA SELECT

MODE	DATA	STATUS
0	0	0
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7

LM RCS Jet Control Axes



① ROLL

② YAW

③ PITCH

JET ORIENTATION



The Roll and Pitch jets are used for roll and pitch control. The Yaw jets are used for yaw control.

The Roll and Pitch jets are used for roll and pitch control. The Yaw jets are used for yaw control.



LM DWP JET SELECTION – ROTATION

- 0000 -

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000
 4. 000 : 000 : 000 : 000 : 000
 5. 000 : 000 : 000 : 000 : 000

- 0000 -

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000
 4. 000 : 000 : 000 : 000 : 000
 5. 000 : 000 : 000 : 000 : 000

- 0000 -

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000
 4. 000 : 000 : 000 : 000 : 000
 5. 000 : 000 : 000 : 000 : 000

- 0000 -

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000
 4. 000 : 000 : 000 : 000 : 000
 5. 000 : 000 : 000 : 000 : 000

- 0000 -

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000
 4. 000 : 000 : 000 : 000 : 000
 5. 000 : 000 : 000 : 000 : 000

- 0000 -

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000
 4. 000 : 000 : 000 : 000 : 000
 5. 000 : 000 : 000 : 000 : 000

These are the only combinations of letters that will be printed.

LM DWP JET SELECTION – TRANSLATION

(LETTERS BELONGING TO ONE LINE)

- 0000 -

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000

- 0000 -

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000

- 0000 -

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000

1. 000 : 000 : 000 : 000 : 000
 2. 000 : 000 : 000 : 000 : 000
 3. 000 : 000 : 000 : 000 : 000

These are the only combinations of letters that will be printed. This
 are identical to those of the other models.

LM AUTOPILOT CONFIGURATION DATA (NOUN 45)

THIS DATA IS CLASSIFIED UNLESS INDICATED OTHERWISE BY OTHER DATA ON THIS PAGE

REF ID: A66586

PARAMETER DESCRIPTION	UNITS AND RANGE	CURRENT SETTING	LIMITS	LIMITS AND REMARKS
1. ALTITUDE 2. ALTITUDE 3. ALTITUDE 4. ALTITUDE	1. FT 2. FT 3. FT 4. FT	1. 10,000 2. 10,000 3. 10,000 4. 10,000	1. 0-20,000 2. 0-20,000 3. 0-20,000 4. 0-20,000	1. 0-20,000 2. 0-20,000 3. 0-20,000 4. 0-20,000
5. ALTITUDE	5. FT	5. 10,000	5. 0-20,000	5. 0-20,000

NOTES



Year 79-83