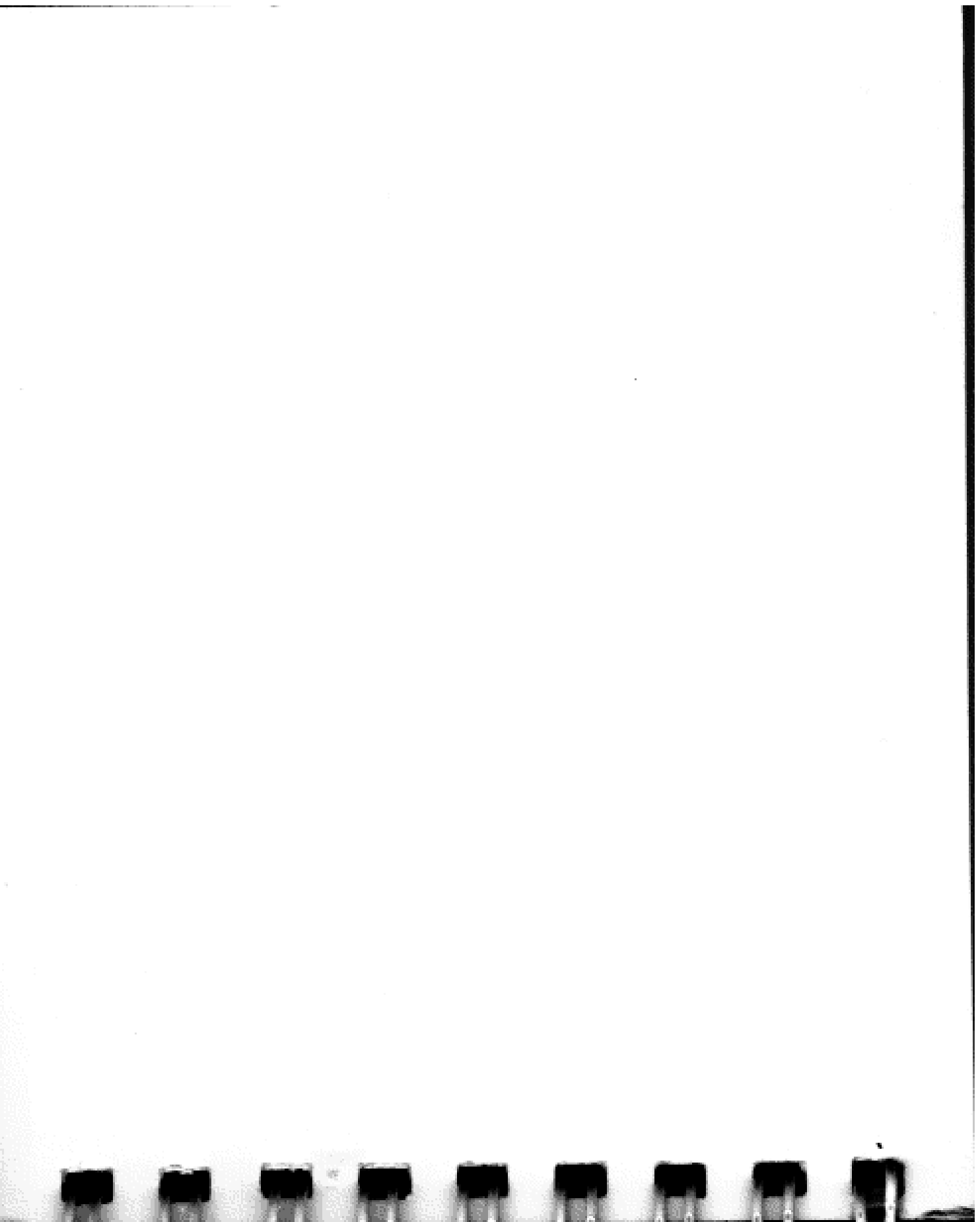
Hewlett-Packard 9825A Desktop Computer

Error Messages



Mainframe Error Messages

An error in a program sets the program line counter to line 0. Pressing the continue key will continue the program from line 0. Execute the continue command with a line number to continue at any desired line (such as: `cont 50`).

`error`

00	System error.
01	Unexpected peripheral interrupt.
02 *	Unterminated text.
03 *	Mnemonic is unknown.
04	System is secured.
05	Operation not allowed; line cannot be stored or executed with line number.
06 *	Syntax error in number.
07 *	Syntax error in input line.
08	Internal representation of the line is too long (gives cursor sometimes).

*These errors give a cursor when the RECALL key is pressed, indicating the location of the error in the line.

09	Gto, gsb, or end statement not allowed in present context.[1]
10*	Gto or gsb statement requires an integer.
11	Integer out of range or integer required. Must be between −32768 and +32767.
12*	Line cannot be stored; can only be executed.
13	Enter (ent) statement not allowed in present context.
14	Program structure destroyed.
15	Printer out of paper or printer failure.
16	String Variables ROM not present for the string comparison. Argument in relational comparison not allowed.
17	Parameter out of range.
18	Incorrect parameter.
19	Bad line number.
20	Missing ROM or binary program. The second number indicates the missing ROM. In the program mode, the line number is given instead of the ROM number.

Number in Display	ROM
1	Binary Program
4	Systems Programming
6	Strings
8	Extended I/O
9	Advanced Programming
10	Matrix
11	Plotter (9862A or 9872A)
12	General I/O
15	9885 Disk

21 Line is too long to store.

22 Improper dimension specification.

23 Simple variable already allocated.

24 Array already dimensioned.

25 Dimensions of array disagree with number of subscripts.

26 Subscript of array element out of bounds.[1]

27 Undefined array.

28 Ret statement has no matching gsb statement.

[1]See also Advanced Programming ROM Error Messages.

*These errors give a cursor when the RECALL key is pressed, indicating the location of the error in the line.

error	
29	Cannot execute line because a ROM or binary program is missing.
30	Special function key not defined.
31	Non-existent program line.
32	Improper data type.[1]
33	Data types do not match in an assignment statement.
34	Display overflow due to pressing a special function key.
35	Improper flag reference (no such flag).
36	Attempt to delete destination of a gto or gsb statement.
37	Display buffer overflow caused by display (dsp) statement.
38	Insufficient memory for subroutine return pointer.[1]
39	Insufficient memory for variable allocation or binary program.
40	Insufficient memory for operation.[1]
41	No cartridge in tape transport.

42 Tape cartridge is write protected. (Slide record tab to other position for recording.)

43 Unexpected Beginning-Of-Tape (BOT) or End-Of-Tape (EOT) marker encountered; or a tape transport failure.

44 Verify has failed.

45 Attempted execution of idf statement without parameters or mrk statement when tape position is unknown.

46 Read error of file body. (See Appendix F.)

47 Read error of file head. (See Appendix F.)

48 End-Of-Tape (EOT) encountered before specified number of files were marked.

49 File too small.

50 Ldf statement for a program file must be last statement in the line.

51 A ROM is present but was not when the memory was recorded. Remove the ROM indicated by the number to the right of the error number in the display, and re-execute the ldm statement. In the program mode, the line number is given instead of the ROM number. See error 20 for a list of ROM numbers.

[1]See also Advanced Programming ROM Error Messages.

52 The ROM indicated by the number to the right of the error number was present when the memory was recorded but is now missing. Insert the indicated ROM and re-execute the ldm statement. See error 20 for a list of ROM numbers.

53 Negative parameter in cartridge statement.

54 Binary program to be loaded is larger than present binary program and variables have been allocated.

55 Illegal or missing parameter in one of the cartridge statements.

56 Data list is not contiguous in memory for one of the cartridge statements.

57 Improper file type.

58 Invalid parameter in rcf statement: "SE" or "DB" expected.

59 Attempt to record a program or special function keys which do not exist.

60 Attempt to load an empty file or the null file (type= 0).

61 The line referenced in an ldf or ldp statement does not exist. If the line containing the ldf or ldp statement has been overlaid by the load operation, the line number in the display may be incorrect.

62 Specified memory space is smaller than cartridge file size.

63 Cartridge load operation would overlay subroutine return address in program; load not executed.

64 Attempt to execute ldk, ldf (program file), or ldp during live keyboard statement.

65 File not found, or file specified in the previous fdf statement does not exist.

Default values associated with errors 66 through 77 when you set flag 14 are explained in Chapter 5 of the manual.

66 Division by zero. A mod B, with B equal to zero.

67 Square root of negative number.

68 Tan (n * π/2 radians);
Tan (n * 90 degrees);
Tan (n * 100 grads);
where n is an odd integer.

69 Ln or log of a negative number.

70 Ln or log of zero.

71 Asn or acs of number less than −1 or greater than +1.

72 Negative base to a non-integer power.

73 Zero to the zero power (0 ↑0).

error

74 Storage range overflow.

75 Storage range underflow.

76 Calculation range overflow.

77 Calculation range underflow.

Advanced Programming ROM Error Messages

error

A0 Relational operator in for statement not allowed. No closing apostrophe.

A1 A for statement has no matching next statement.

A2 A next statement encountered without a previous for statement.

A3 Non-numeric parameter passed as a p-number.

A4 No return parameter for a function call.

A5 No functions or subroutines running. Improper p-number reference.

Error 46 Attempt to allocate local p-numbers from the keyboard.

Error 47 Wrong number of parameters in fts, stf, fti, or itf function. stf or itf parameter must be a string (not a numeric). stf or itf parameter contains too few characters.

Error 48 Overflow or underflow in fts function or overflow in fti function.

Error 49 String Variables ROM missing for stf or itf functions.

These mainframe errors have an additional meaning with the AP ROM installed.

Error 19 Attempt to execute a next statement from keyboard while for/next loop using same variable is executed in program or from program while for/next loop using same variable is executed from keyboard. Attempt to call function or subroutine from keyboard.

Error 26 P-number reference is negative.

Error 32 Non-numeric value in for statement or in fts or fti function.

Error 38 Memory overflow during function or subroutine call.

Error 40 Memory overflow while using for statement or while allocating local p-numbers.

Systems Programming ROM Error Messages

error	
60	Missing General or Extended I/O ROM.
61	Incorrect number of parameters.
62	Improper parameter specified.
63	Wrong parameter type.
64	Illegal buffer type for bred statement.
65	Key buffer overflow.
66	Too large or wrong sign of parameter.
67	Improper execution of store statement.
68	Illegal use of kret.
69	Missing 98036A Interface card.

Extended I/O ROM Error Messages

error	
E0	General I/O ROM missing. HP-IB error under interrupt.
E1	Wrong number of parameters.
E2	Improper buffer device or equate table usage. Multiple-listeners error. Buffer busy.
E3	Wrong parameter type.
E4	Timeout error.
E5	Buffer underflow or overflow.
E6	Parameter value out of range.
E7	Parity failure.
E8	Improper use of iret statement. Attempt to DMA with an HP-IB. Buffer or select code is busy.
E9	Illegal HP-IB operation.

General I/O ROM Error Messages

error	
G1	Incorrect format numbers.
G2	Referenced format statement has an error.
G3	Incorrect I/O parameters.
G4	Incorrect select code.
G5	Incorrect read parameter.
G6	Improper conv statement parameters.
G7	Unacceptable input data.
G8	Peripheral device down.
G9	Interface hardware problem.

Matrix ROM Error Messages

error	
M1 *	Syntax error.
M2	Improper dimensions. Array dimensions incompatible with each other or incompatible with the stated operation.
M3	Improper redimension specification: New number of dimensions must equal original number; New size cannot exceed original size.
M4 *	Operation not allowed. An array which appears to the left of → cannot also appear on the right.
M5	Matrix cannot be inverted. Computed determinant = 0.

*These errors give a cursor when the RECALL key is pressed, showing the location of the error in the line.

9862A Plotter ROM Error Messages

error	
P1	Wrong state. Statements executed out of order. (See Appendix in ROM manual.)
P2	Wrong number of parameters.
P3	Wrong type of parameters. Parameters for a label statement must be expressions, text, or string variables.
P4	Scale out of range. Maximum value is less than or equal to the minimum value.
P5	Integer out of range. Pen control parameter is out of the range −32768 to +32767 or the select code is not 0 nor in the range of 2 through 15.
P6	Character size out of range. Width or Height in letter statement is zero or there is an integer overflow in csize calculations or results.
P7	Not used.
P8	Axes origin off-scale. X, Y specified for axis statement doesn't fall on plotter surface.

An explanation of the error message PLT DOWN is in the manual.

9872A Plotter ROM Error Messages

error

P1 Attempt to store into constant. Occurs when one or more parameters in a dim instruction are constants rather than variables.

P2 Wrong number of parameters. Occurs on instructions with numeric-only parameter lists (scl, cfs, plt, iplt, cplt, xax, yax, lim, dim, csiz, line, pen#, and psc). In certain unusual cases where a parameter list contains user-level function calls, an instruction having an incorrect number of parameters may be executed.

P3 Wrong type of parameter or illegal parameter value.

P4 No HP-IB device number specified. Occurs on a psc instruction when the parameter is between 0 and 14 inclusive and an HP-IB card is at the corresponding select code.

P5 Pen control value not in −32768 thru 32767 range. Occurs on plt and iplt. May also occur if hardware transmission error occurs between plotter and calculator.

P6 No HP-IB card at specified select code. Occurs on `psc` instruction when the interface card set to the specified select code is not an HP-IB card.

P7 `axe, ltr` instructions executed. Occurs on `axe` and `ltr` instructions because the ROM recognizes these instructions but cannot execute them. This error flags all `axe` and `ltr` instructions for the purpose of converting 9825/9872 programs.

P8 Calculator STOP key cancelled operation. Occurs on any instruction when the plotter fails to respond for 3 seconds after the STOP key has been pressed. This error is most likely to occur when the pen is traveling slowly.

P0 Transmission error. The calculator has received an illegal ASCII input from the plotter.

P1 Instruction not recognized. The plotter has received an illegal character sequence.

P2 Wrong number of parameters. Too many or too few parameters have been sent with an instruction.

P3 Bad parameter. The parameters sent to the plotter with an instruction are out of range for that instruction.

P4 Illegal character. The character specified as a parameter is not in the allowable set for that instruction.

P5 Unknown character set. A character set out of the range 0 thru 4 has been designated as either the standard or alternate character set.

P6 Position overflow. An attempt to draw a character or perform a cplot that is located outside of the plotters numeric limit of −32768 to +32767.

Error messages generated by write (`wrt`) and read (`red`) statements will typically be displayed as an error in the next executed plotter ROM statement. This can be avoided by using an output error command (`wrt` select code, `"OE";`) followed by a read statement (`red` select code, variable) to check for errors after read or write statements that address the plotter.

P6 No HP-IB card at specified select code. Occurs on `psc` instruction when the interface card set to the specified select code is not an HP-IB card.

P7 `axe, ltr` instructions executed. Occurs on `axe` and `ltr` instructions because the ROM recognizes these instructions but cannot execute them. This error flags all `axe` and `ltr` instructions for the purpose of converting 9825/9872 programs.

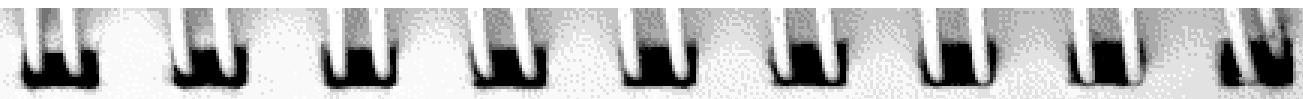
P8 Calculator STOP key cancelled operation. Occurs on any instruction when the plotter fails to respond for 3 seconds after the STOP key has been pressed. This error is most likely to occur when the pen is traveling slowly.

P0 Transmission error. The calculator has received an illegal ASCII input from the plotter.

P1 Instruction not recognized. The plotter has received an illegal character sequence.

P2 Wrong number of parameters. Too many or too few parameters have been sent with an instruction.

P3 Bad parameter. The parameters sent to the plotter with an instruction are out of range for that instruction.



P4 Illegal character. The character specified as a parameter is not in the allowable set for that instruction.

P5 Unknown character set. A character set out of the range 0 thru 4 has been designated as either the standard or alternate character set.

P6 Position overflow. An attempt to draw a character or perform a cplot that is located outside of the plotters numeric limit of −32768 to +32767.

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String Variables ROM Error Messages

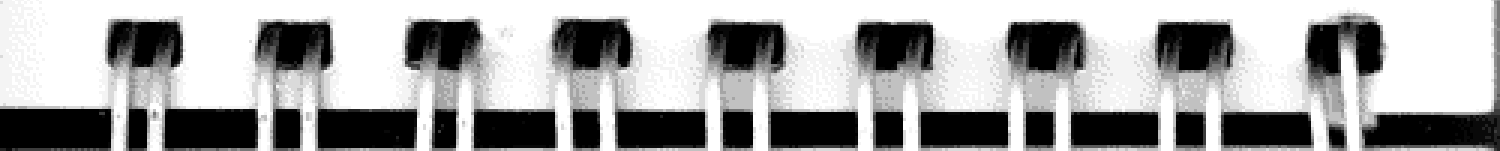
error	
50	Invalid set of strings in data list of load file (ldf) statement.
51	Improper argument for string function or string variable.
52	More parameters than expected for string function or string variable.
53	Accessing or assigning to non-contiguous string. num function of null string.
54	Trying to find the value of non-numeric string or null string. Exponent too large. Exponent format invalid (e.g., 1e + +5).
55	Invalid destination type for string assignment.
56	Parameter is zero, negative, exceeded dimensioned size. Invalid sequence of parameters for string variable.
57	String not yet allocated.
58	String previously allocated.
59	Maximum string length exceeded; additional string length must be specified in dim statement.

Disk ROM Error Messages

Hardware Errors

error	
d0	Firmware/driver out of synchronization. More than six defective tracks in a row. (Press RECALL)
d1	All drives in system not powered.
d2	Door opened while disk is being accessed.
d3	Disk not in drive or no such drive number.
d4	Write not allowed to protect disk.
d5	Record header error. (Use Error Recovery Routine.)
d6	Track not found. (Use Error Recovery Routine.)
d7	Data Checkword error. (Use Error Recovery Routine.)
d8	Hardware failure. (Press RECALL)
d9	Verify error due to drive problem. Marginal data. (Reprint data)

error	
02	Improper file size (negative, 0 or >32767).
03	Invalid file name.
04	File not found.
05	Duplicate file name.
06	Wrong file type.
07	Directory overflow.
08	Insufficient storage space on disk.
09	Verify error due to cable, calculator or drive problem. Bad data (Reprint data.)
F0	File overflow when read or print executed.
F1	Bootstraps not found. (Reload bootstraps)
F2	String read but wrong data type encountered.
F3	Attempt to read data item but type doesn't match.
F4	Availability table overflow. (Repack)
F5	Attempt on end branch from other than running program.
F6	Unassigned data file pointer.
F7	Disk is down so line cannot be reconstructed.



Software Errors

error	
00	Improper argument.
01	Argument out of range.
02	Improper file size (negative, 0 or >32767).
03	Invalid file name.
04	File not found.
05	Duplicate file name.
06	Wrong file type.
07	Directory overflow.
08	Insufficient storage space on disk.
09	Verify error due to cable, calculator or drive problem. Bad data (Reprint data.)
F0	File overflow when read or print executed.
F1	Bootstraps not found. (Reload bootstraps)
F2	String read but wrong data type encountered.
F3	Attempt to read data item but type doesn't match.
F4	Availability table overflow. (Repack)

error

F5 Attempt on end branch from other than running program.

F6 Unassigned data file pointer.

F7 Disk is down so line cannot be reconstructed.

F8 Disk is down and (STOP) pressed.

F9 System error. (Save files individually and reinitialize.)

SPARE DIR. is printed when the spare directory in the backup track automatically replaces the main directory.

DISK IS DOWN is displayed when running a program that uses a drive number of a drive that is not connected to the system, not powered or whose door is opened.

These errors may result during the binary Initialization and Error Recovery Routines.

error	
80	Wrong syntax, argument out of range or variable not properly dimensioned.
81	More than six defective tracks on the disk.
82	Verify error. Boots on the disk not identical to boots on the cartridge.
83	dtrk or tinit not allowed because error information lost or error not d5, d6, d7 or d9.
84	Attempt to access record for error correction which isn't part of data file.
85	Improper string length (inconsistent with length given in header).
86	Not enough space in calculator buffer for data item or item can't be placed in this part of buffer.
87	Missing Disk or String ROM.
88	Track still bad after tinit.

These mainframe errors take on additional meaning when the Disk ROM is installed.

error	
03	Mnemonic not found because disk may be down.
29	Line can't be executed because ROM (usually String) is missing.
31	Line not found.
50	Get or chain should be last statement in a line.
51	ROM now installed which wasn't when savem was executed.
52	ROM now missing which wasn't when savem was executed.
63	Disk load operation would overlay gsb return address so load not executed.
64	Get, chain or getk not allowed from live keyboard mode or during an ent statement.

Part No. 09825-90015
Microfiche No. 09825-99015

Printed in U.S.A.
December 5,1978