

Performax Error Codes

Listed below are the post error codes Performax will display in the event of a system level problem. Singular occurrences of the following errors may be considered soft failures. The error numbers are displayed on the top line of the LCD in the following format:

MAIN PROCESSOR POWER-ON AND RUNTIME ERRORS			
ERROR NUMBER	DESCRIPTION	BOTTOM LINE OF LCD DISPLAY	RELATED BOARD
4000	Rom Error: Checksum does not match roms. Caused by a defective rom.	Computed checksum	Main
4001	No Bus Error: Writes to a memory location which should generate a bus error. If no bus error occurs this message is displayed. This is a simple hardware test.	Accessed address	Main
4002	NV Ram Error: Caused by a read/write test failure on the NVM chip.	Accessed address	Main
4010	Font Rom Error: Checksum does not match roms. Caused by a defective rom.	Computed checksum	Main
4011	Ram Error 1:	Walking zero bit failure address	Main
4012	Ram Error 2:	Walking one bit failure address	Main
4013	Ram Error 3:	All zeros failure address	Main
4014	Ram Error 4: All ram tests performed on power up.	All ones failure address	Main
4015	Map Error: Checks for ram at the base address. Displays error if no ram installed.	No ram found at ram base address	Main
4020	Paper Timed Out:	Blank	Main
4021	Keypad Timed Out:	Blank	Keypad
4022	Carriage Timed Out:	Blank	Main
4023	Interface Timed Out:	Blank	Main
4030	Bad command from Paper:	Blank	Main
4031	Bad command from Keypad:	Blank	Keypad
4032	Bad command from Carriage:	Blank	Main
4033	Bad command from Interface:	Blank	Interface
4100	Bus Error:	Accessed address	Any
4110	Address Error:	Accessed address	Any
4120	Illegal instruction Error: Occurs when microprocessor encounters non-valid instructions.	Program counter	Main

4130	Privilege Violation Error: Internal processor soft error.	Program counter	Main
4140	Bad Interrupt Error: Caused by any interrupts which are not expected.	Program counter	Main
4150	Power Fail Error: Displayed by the system when power fail interrupt is triggered. If power stays up this message is displayed. This could be caused by a brownout condition or a power glitch. The following message is displayed instead of the error number: <i>POWER FAIL</i>	Program counter	Power/ Main

COMMON PERIPHERAL PROCESSOR ERRORS

ERROR NUMBER	DESCRIPTION	BOTTOM LINE OF LCD DISPLAY	RELATED BOARD
X001	Ram Failure:	Blank	N/A
X002	Ram Failure:	Blank	N/A
X003	Timer Failure:	Blank	N/A
X004	Bad Command Received:	Blank	N/A
X005	Bad Byte Count Received:	Blank	N/A
X006	Bad Data Received:	Blank	N/A
X007	Timeout on Message from Main:	Blank	N/A
		X = 0 Paper Processor 1 Keypad Processor 2 Carriage Processor 3 Interface Processor	Main Keypad Main Interface

SPECIFIC PERIPHERAL PROCESSOR ERRORS

DESCRIPTION	RELATED BOARD
Paper Processor Errors: none	Main
Keypad Processor Errors: On an LCD failure all 3 LED's will turn on solid. The message in the display will be unpredictable.	Keypad
Carriage Processor Errors:	Main

<p>Error: 2032 Fan Unplugged error. Error: 2035 Carriage motor leads reversed.</p>	
<p>Interface Processor Errors: Error: 3032 Signal generation jumper connected. If the signal generation jumper is left on the interface accidentally this error will be displayed on power up. In this case jumper should be removed.</p>	<p>Interface</p>