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**88-010 HOW TO USE 5224, 5225, AND 5256  
PRINTER ERROR INFORMATION**

The work station printer error information is used to determine the cause of failure in the printer or work station controller. These tables may be used for correction of intermittent or solid problems with the device or controller, or both.

Run the error recording analysis procedure for the work station controller and look at the error information that was recorded. If you observe a pattern from the information displayed, go to MAP 8800 for aid in correcting the problem. If you see no pattern, go to paragraph 86-200 for a general description of what the recorded information means.

**88-050 I/O COUNTER TABLE SAMPLE**

I/O COUNTER TABLE FOR MATRIX PRINTER P2/ C030

DATE LAST RESET	78/02/12
NUMBER OF SVCS	846

**88-100 ERROR COUNTER TABLE SAMPLE**

ERROR COUNTER TABLE FOR MATRIX PRINTER P2/ C030

	DATE LAST RESET	00/00/00
	DESCRIPTION	MAP
RECEIVE PARITY CHECKS .....	0	88-370
LINE PARITY CHECK .....	0	88-400

**88-200 ERROR HISTORY TABLE SAMPLE**

Errors that do not cause complete failure of the work station controller and can be associated with a specific work station appear in this log. There are some errors that are not recorded but are only displayed on the system console. If these bits are on, they will be described.

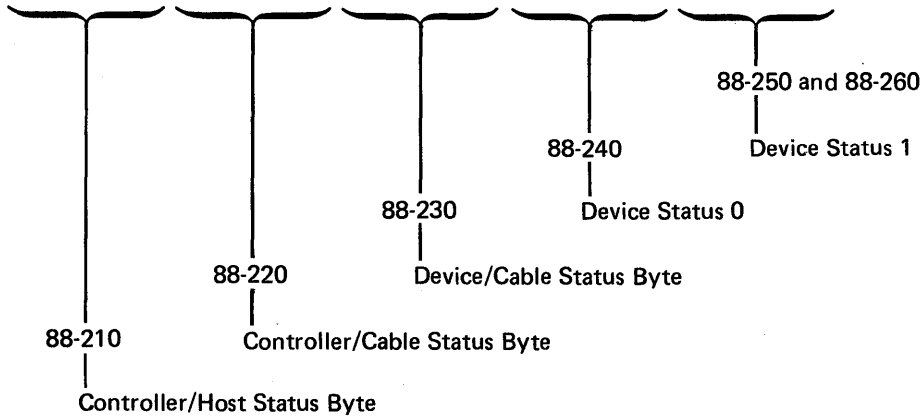
For a description of the error code field, see the following manuals:

- *IBM 5224 Printer Models 1 and 2 Maintenance Information Manual, SY34-0095*
- *IBM 5224 Printer Model 12 Maintenance Information Manual (Ideographic), SY34-0096*
- *IBM 5225 Printer Models 1, 2, 3, and 4 Maintenance Information Manual, SY34-0060*
- *IBM 5225 Printer Models 11 and 12 Maintenance Information Manual (Ideographic), SY34-0094*
- *IBM 5256 Printer Maintenance Information Manual, SY31-0462*

A description is also in the unit MAPs for each of the printers.

ERROR HISTORY TABLE FOR MATRIX PRINTER P2/ C030

ERROR CODE	CONT/HOST STATUS		CABLE CONT		STATUS DEVICE		DEVICE 0		STATUS 1		DATE YY/MM/DD	TIME HH:MM:SS
	STATUS	STATUS	CONT	CONT	DEVICE	DEVICE	0	0	1	1		
0238	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	77/04/18	22:23:19
0238	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	77/04/18	22:22:53
0238	0000	0000	0000	0000	0000	0001	0000	0000	0000	0001	77/04/18	16:20:39
0238	0000	0000	0000	0000	0000	0000	0000	0000	0000	0001	77/04/18	10:08:20



**88-210 Controller/Host Status Byte**

Bit	Description	
0	Data stream reject (not recorded)	(88-310)
1	Control field error (not recorded)	(88-320)
2	Resources temporarily not available (not recorded)	(88-330)
3	Work station controller, data bus out, data bus in parity check	(88-340)
4	Operation check	(88-340)
5	Work station controller storage parity check	(88-340)
6	Ignore	
7	Long time-out	(88-340)

**88-220 Controller/Cable Status Byte**

Bit	Description	
0	Not logged	
1	No response time-out	(88-350)
2	Transmit activity check	(88-360)
3	Activate command failure	(88-365)
4	Receive parity check	(88-370)
5	Receive length check	(88-380)
6	Ignore	
7	Even/odd time-out	(88-390)

**88-230 Device/Cable Status Byte**

Bit	Description	
0	Station busy	(87-395)
1	Device line parity check	(88-400)
2	Unit not available	(88-410)
3	Outstanding status (not an error)	(88-400)
4,5,6	Exception conditions	(88-400)
7	Even/odd response indicator (not an error)	(88-400)

**88-240 Device Status 0**

Bit	Description	
0	SCS (SNA character string) command not valid	(88-420)
1	SCS (SNA character string) parameter not valid	(88-430)
2	Buffer full (not logged)	(88-432)
3	Print complete (not logged)	(88-434)
4	Cancel (not logged)	(88-436)
5	Printer not ready (5256 only)	(88-440)
6	End of forms	(88-450)
7	Unprintable character	(88-460)

**88-250 Device Status 1 (5256)**

Bit	Description	
0	Wire check	(88-470)
1	Slow speed check	(88-480)
2	Fast speed check	(88-490)
3	Emitter sequence check	(88-500)
4	No emitters	(88-510)
5	Overrun check	(88-520)
6	Forms stopped	(88-530)
7	Forms position check	(88-540)

**88-260 Device Status 1 (5224 and 5225)**

Value	Description	
0001 0001	Machine check	(88-550)
0011 0001	} Print check	(88-560)
0011 0010		
0011 0100		
0011 0101		
0011 0110		
0011 1000		
0011 1001	} Forms check	(88-570)
0100 0001		
0100 0010	} Machine check	(88-550)
0100 0011		
0100 0101		
0100 0110	} Print check	(88-560)
1000 0001		
1000 0011	} Machine check	(88-550)
1000 0100		
1000 0101		
1000 0110	} Ribbon jam	(88-580)
1000 0111		
1000 1000	Ribbon check	(88-590)
1000 1001	Ribbon check	(88-590)

**88-310 Data Stream Reject**

This error is not recorded so the cause of this input into the logs is some other bit that may be on.

**88-320 Work Station Control Field Error Information**

This error is not recorded so the cause of this input into the logs is some other bit that may be on.

If this bit is on, it may give more information about the problem. Device status byte 0 contains more information on this error.

**Device Status Byte 0**

Code	Description
01	Command modifier not valid in work station control field
02	Byte count not valid in work station control field
03	Device address not found in work station parameter list
04	Reserved for work stations
05-0F	Not assigned

**88-330 Resources Temporarily Not Available**

**Device Status Byte 0**

Code	Description
01	Data stream sent to printer and printer buffer is not available.
02	Work station specified as not operational by work station controller (hung busy, response not valid to poll).
03	Device offline (not in session).
04	Printer needs initialization data.
05-0F	Not used.

**88-350 No Response Time-Out**

A work station that was powered on and Mode Set stopped responding to poll commands. All attempts to receive were completed before the error was reported.

**88-360 Transmit Activity Check**

The poll of this work station either failed to go out the line driver or the checking circuit failed.

Communications with the terminal are not possible until this condition is fixed.

**88-365 Activate Command Failure**

Activate commands are used to move large amounts of data to and from terminals. An activate command failure is caused by a noisy line or a terminal failure.

**88-370 Receive Parity Check**

The work station response to the poll command was found to have a parity check after all attempts to receive were completed.

**88-380 Receive Length Check**

The work station has responded to a poll or a read activate command with data of the wrong length.

**88-390 Even/Odd Time-Out**

The terminal has not switched response levels in 8 seconds.

**88-395 Station Busy**

The station has taken too long to process a command sent by the work station controller.

**88-400 Line Parity Check**

A parity check has been sensed at the printer.

**88-410 Unit Not Available**

Indicates that the 5225 or 5256 Printer is not ready (solid error or Stop key).

**88-420 SCS (SNA Character String) Command Not Valid**

Programming error—user program output data stream.

**88-430 SCS (SNA Character String) Parameter Not Valid**

Programming error—user program output data stream.

**88-432 Buffer Full**

Both print buffers are full.

**88-434 Print Complete**

Both print buffers and the line image buffer are empty.

**88-436 Cancel**

The Cancel key on the printer has been pressed.

**88-440 Printer Not Ready (5256 Only)**

Power is over or under voltage.

**88-450 End of Forms**

The printer is out of paper.

**88-460 Unprintable Character**

A character (which cannot be printed) in the data stream may or may not stop printing because of the option set in the data stream at the printer.

**88-470 Wire Check**

The wire driver was on too long.

**88-480 Slow Speed Check**

The print head moved too slowly.

**88-490 Fast Speed Check**

The print head moved too quickly.

**88-500 Emitter Sequence Check**

The controller did not sense an emitter pulse.

**88-510 No Emitters**

The head stopped.

**88-520 Overrun Check**

Emitter pulses were quicker than the controller could handle them.

**88-530 Forms Stopped**

Forms jammed.

**88-540 Forms Position Check**

Forms moved, but not under control of the printer.

**88-550 Machine Check**

An error has been sensed in the printer. See the printer unit MAPs for a definition of the device status 1 error byte.

**88-560 Print Check**

An error was sensed in the printer when printing. See the printer unit MAPs for definition of the device status 1 error byte.

**88-570 Forms Check**

An error was sensed in the printer during a forms movement. See the printer unit MAPs for a definition of the device status 1 error byte.

**88-580 Ribbon Jam**

Either the ribbon jammed or an error was sensed when attempting to move the print ribbon.

**88-590 Ribbon Check**

An error was sensed when attempting to move the print ribbon.

