



corporate headquarters

553 Basaltic Road Concord, Ontario Canada L4K 4W8

phone (905) 303-8874 fax (905) 303-8875

web www.cashcode.com

CashCode[®] NET

Document 6

Bill to Bill Error Codes

Revision History.

Revision	Date	Author	Description
2.4.3	2006-04-27	CC Engineering	- Error definition of error F9 extended
2.4.2	2005-07-18	CC engineering	- "Drop cassette full" error removed
2.4.1	2005-06-13	CC engineering	- updated error defintion for ED error; - corrected minor errors and typos in error definition table;
2.4	2005-04-18	CC engineering	- initial release

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1 Overall Aspects

All Bill-To-Bill unit errors are divided into the following groups.

- Central processor errors;
- Cassette 1 errors;
- Cassette 2 errors;
- Cassette 3 errors;
- Dispenser errors;
- Transport mechanism errors;
- Validator Head Link errors with central processor;
- Validator Head Link errors with devices Loading Program.

2 Description of Errors

2.1 Central processor errors

Code	Description	Display
81	Error on the link with the external EEPROM – wire SDA.	ERROR -> LINK2
82	Error on the link with the external EEPROM – wire SCL.	ERROR -> LINK2
83	Error on the link with the Cassette#1.	ERROR -> LINK2
84	Error on the link with the Cassette#2.	ERROR -> LINK2
85	Error on the link with the Cassette#3.	ERROR -> LINK2
86	Error on the link with the Dispenser.	ERROR -> LINK2
87	Error on the link with the Cassette#1.	ERROR -> LINK2
88	Error on the link with the Cassette#2.	ERROR -> LINK2
89	Error on the link with the Cassette#3.	ERROR -> LINK2
8A	Error on the link with the Dispenser.	ERROR -> LINK2
8B	Reserved.	
8C	Reserved.	
8D	Incorrect CRC of the main program.	ERROR -> LINK2
8E	ACK signal is absent during exchange with RTC	ERROR -> LINK2
8F	EEPROM exchange error	ERROR -> LINK2
90	Clock battery discharged	ERROR->TRANSPORT
91	Transport motor obturator failed	ERROR->TRANSPORT
92	It is impossible to support transport motor speed 300mm/Sec.	ERROR->TRANSPORT
93	One or some sensors of chassis upper tract overlapped	ERROR->TRANSPORT
94	One or some sensor of chassis lower tract overlapped	ERROR->TRANSPORT
95	All cassettes are absent	ERROR->TRANSPORT
96	Dispenser is absent	ERROR->TRANSPORT
97	Switch initialization error – step counter signal is absent	ERROR -> SWITCH
98	Switch initialization error – initial marker sensor signal is absent	ERROR -> SWITCH
99	Switch setting error – step counter signal is absent	ERROR -> SWITCH

2.2 Cassette#1 errors

Code	Description	Display
A1	Entry sensor failed	ERROR->CASSETTE1
A2	Overflow sensor failed	ERROR->CASSETTE1
A3	Tape begin/end sensor failed	ERROR->CASSETTE1
A4	Tape obturator failed	ERROR->CASSETTE1
A5	It is impossible to support speed 300mm/Sec.	ERROR->CASSETTE1
A6	Bill jam sensor failed	ERROR->CASSETTE1
A7	EEPROM failed	ERROR->CASSETTE1
A8	Time out of bill entrance to entry sensor is exceeded.	ERROR->CASSETTE1
A9	Time out of bill exit from entry sensor is exceeded.	ERROR->CASSETTE1
AA	Time out of successful completion bill accepting is exceeded	ERROR->CASSETTE1
AB	Time out of successful completion bill giving out is exceeded	ERROR->CASSETTE1
AC	Bill jam sensor is cut in.	ERROR->CASSETTE1
AD	Requested number of bills is not given out.	ERROR->CASSETTE1

2.3 Cassette#2 errors

Code	Description	Display
AE	Entry sensor failed	ERROR->CASSETTE2
AF	Overflow sensor failed	ERROR->CASSETTE2
B0	Tape begin/end sensor failed	ERROR->CASSETTE2
B1	Tape obturator failed	ERROR->CASSETTE2
B2	It is impossible to support speed 300mm/Sec.	ERROR->CASSETTE2
B3	Bill jam sensor failed	ERROR->CASSETTE2
B4	EEPROM failed	ERROR->CASSETTE2
B5	Time out of bill entrance to entry sensor is exceeded.	ERROR->CASSETTE2
B6	Time out of bill exit from entry sensor is exceeded.	ERROR->CASSETTE2
B7	Time out of successful completion bill accepting is exceeded	ERROR->CASSETTE2
B8	Time out of successful completion bill giving out is exceeded	ERROR->CASSETTE2
B9	Bill jam sensor is cut in.	ERROR->CASSETTE2
BA	Requested number of bills is not given out.	ERROR->CASSETTE2

2.4 Cassette#3 errors

Code	Description	Display
BB	Entry sensor failed	ERROR->CASSETTE3
BC	Overflow sensor failed	ERROR->CASSETTE3
BD	Tape begin/end sensor failed	ERROR->CASSETTE3
BE	Tape obturator failed	ERROR->CASSETTE3
BF	It is impossible to support speed 300mm/Sec.	ERROR->CASSETTE3
C0	Bill jam sensor failed	ERROR->CASSETTE3
C1	EEPROM failed	ERROR->CASSETTE3
C2	Time out of bill entrance to entry sensor is exceeded.	ERROR->CASSETTE3
C3	Time out of bill exit from entry sensor is exceeded.	ERROR->CASSETTE3
C4	Time out of successful completion bill accepting is exceeded	ERROR->CASSETTE3
C5	Time out of successful completion bill giving out is exceeded	ERROR->CASSETTE3
C6	Bill jam sensor is cut in.	ERROR->CASSETTE3
C7	Requested number of bills is not given out.	ERROR->CASSETTE3

2.5 Dispenser errors

Code	Description	Display
C8	Entry sensor failed	ERROR->DISPENSER
C9	Drum Initial location failed	ERROR->DISPENSER
CA	Upper sensor failed	ERROR->DISPENSER
CB	Lower sensor failed	ERROR->DISPENSER
CE	Exit sensor failed	ERROR->DISPENSER
CF	Drum motor obturator failed	ERROR->DISPENSER
D0	Shutter sensor failed	ERROR->DISPENSER
D1	Shutter motor obturator failed	ERROR->DISPENSER
D2	Keyboard failed	ERROR->DISPENSER
D3	It is impossible to support drum speed 300mm/Sec.	ERROR->DISPENSER
D4	Time out of bill entrance to entry sensor is exceeded	ERROR->DISPENSER
D5	Time out occurred with bills waiting for removal by customers.	ERROR->DISPENSER
D6	Time out of bill entrance to lower sensor is exceeded	ERROR->DISPENSER
D7	Time out of bill entrance to exit sensor is exceeded	ERROR->DISPENSER
D8	Time out of bill exit from lower sensor is exceeded	ERROR->DISPENSER
D9	Time out of successful bill accepting is exceeded	ERROR->DISPENSER
DA	Time out of bill exit from entry sensor is exceeded	ERROR->DISPENSER

2.6 Transport mechanism errors

Code	Description	Display
DB	Time out of bill entrance to upper chassis tract lower sensor is exceeded	JAM -> TRANSPORT
DC	Time out of bill exit from upper chassis tract lower sensor is exceeded	JAM -> TRANSPORT
DD	Time out of bill entrance to upper chassis tract middle sensor is exceeded	JAM -> TRANSPORT
DE	Time out of bill exit from upper chassis tract middle sensor is exceeded	JAM -> TRANSPORT
DF	Time out of bill entrance to upper chassis tract upper sensor is exceeded	JAM -> TRANSPORT
E0	Time out of bill exit from upper chassis tract upper sensor is exceeded	JAM -> TRANSPORT
E1	Time out of bill entrance to lower chassis tract lower sensor is exceeded	JAM -> TRANSPORT
E2	Time out of bill exit from lower chassis tract lower sensor is exceeded	JAM -> TRANSPORT
E3	Time out of bill entrance to lower chassis tract middle sensor is exceeded	JAM -> TRANSPORT
E4	Time out of bill exit from lower chassis tract middle sensor is exceeded	JAM -> TRANSPORT
E5	Time out of bill entrance to lower chassis tract upper sensor is exceeded	JAM -> TRANSPORT
E6	Time out of bill exit from lower chassis tract upper sensor is exceeded	JAM -> TRANSPORT

2.7 Validator Head Link errors with central processor

Code	Description	Display
E7	I2C-bus error – start condition	ERROR -> LINK1
E8	I2C-bus error – writing initialization	ERROR -> LINK1
E9	I2C-bus error – reading initialization	ERROR -> LINK1
EA	I2C-bus error – byte writing	ERROR -> LINK1
EB	I2C-bus error – byte reading	ERROR -> LINK1
EC	CRC error	ERROR -> LINK1
ED	I2C-bus error – time out of packet reading or Chassis is removed	ERROR -> LINK1 or Chassis is removed

2.8 Validator Head Link errors with devices Loading Program

Code	Description	Display
F0	Error of the bill stacking.	ERROR -> HV
F1	Optical sensors don't work.	ERROR -> HV
F2	Magnetic sensors don't work.	ERROR -> HV
F3	Capactive sensors don't work.	ERROR -> HV
F4	Stacker motor doesn't work.	ERROR -> HV
F5	Interlink with sensor boxes don't work.	ERROR -> HV
F6	Jam in the Validator Head.	ERROR -> HV
F7	Transport motor doesn't work.	ERROR -> HV
F8	Alignment motor doesn't work.	ERROR -> HV
F9	Unsupported version of the chassis firmware or boot-program of the chassis doesn't work.	ERROR -> HV
FA	Boot-program of the dispenser doesn't work.	ERROR -> HV
FB	Boot-program of the 1st cassette doesn't work.	ERROR -> HV
FC	Boot-program of the 2nd cassette doesn't work.	ERROR -> HV
FD	Boot-program of the 3rd cassette doesn't work.	ERROR -> HV