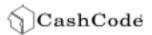
## 4. Diagnostics

If the red light on the front of the bill validator is ON insert bill and remove it after the red light goes OFF. Count the number of red flashes and compare with the diagnostic chart below

#	Description	#	Description
1	Cassette is removed from bill acceptor	7	Failure of magnetic sensors
2	Stacking motor does not rotate	8	Transport motor does not move
3	Cassette is full	9	Speed of transport motor is too high
4	Mechanical jam in the cassette	10	Transport motor electrical overload
5	Stacking motor electrical overload	11	Bill pathway security latch is open
6	Failure of optical sensors	12	Banknote is in the entry slot of the cassette and credit's not issued

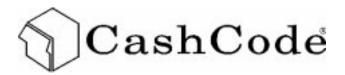
#### Notes:

- If the bill was inserted but the red light on the front of the bill acceptor did not go OFF there is a failure in communication.
- When diagnostics is completed the red light becomes steady again. Do not consider
  it as a flash and do not count it.

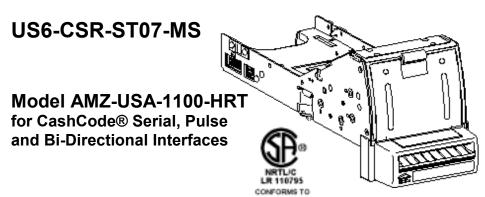


CashCode Company Inc. 553 Basalitc Rd. Concord, Ontario Canada. L4K 4W8 TEL: (905) 303-8874 (800)-584-2633 FAX: (905) 303-8875 (800)-593-2633

© 1998-1999, CashCode Co. Inc PT# UG\_07F6MS Rev.E 07/99



12V Bill Validator with Stacker User's Guide



# 1. General Specifications:

CURRENCY: \$1, \$5, \$10, \$20, \$20('96), \$50, \$100 USA Dollars

INTERFACES: Pulse Interface

CashCode Serial Interface (MEI compatible) Bi-Directional Interface (RS232-MEI compatible)

#### **ELECTRICAL SPECIFICATION:**

Operating Voltage	Maximum Operating Current	Maximum Overload Current (t<2.2 sec)	
1014 V DC	0.85 A DC	2.5 A DC	

Use only current limiting CSA or UL recognized CLASS 2 Power Supply.

OPERATING TEMPERATURE: -0 to +50 degrees Celsius

TOTAL WEIGHT WITHOUT CASSETTE < 1.2 kg

ENCLOSURE: Bill Validator Part #:US6-CSR-ST07-MS

User's Guide: Part # OPT-UG-07F6MS

Accessories: Power Harness, Part # AMZ-XXX-12-06

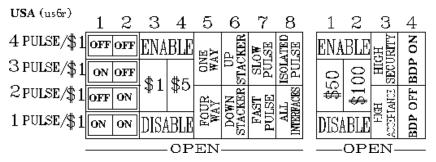
Jumper Conn. Part # AMZ-XXX-PC-18 Front Label, Part # AMZ-LB-US6

OPTIONAL ACCESSORIES:

Serial Interface Test adapter; Part # OPT-XXX-CS
Bi-Directional interface adapter, Part # OPT-XXX-BDxx

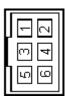
## 2. DIP switches layout and connector pinout:

To access Switches remove the cover



6 pin connector pinout

0 0 0 0 0 0 0 0					
Pin	DESCRIPTION	WIRE COLOUR			
1	+12V DC	Yellow			
2	GND	Black			
3	Pulse Output (NO)	Green			
4	Common	Blue			
5	Inhibit Line (+)	White			
6	Inhibit Line (-)	Brown			



Mating connector:

**MOLEX:** 15-04-5064 -1pcs; 50-57-9303 -2pcs; 16-02-0096 -6pcs;

18 pin connector pinout

Pin	DESCRIPTION		DESCRIPTION		
1	Credit Pulse		Out of service		
2	Interrupt		TDX		
3	Serial/Pulse Select	12	Accept Enable		
4	Сонинон		LED Power Source		
5			Send		
6	Reserved	15	Reserved		
7	Reserved	16	Escrow/RDX		
8	8 Reserved		Reserved		
9 Reserved		18	Reserved		
1.6			·		



Mating connector:

**AMP:** 102398-7 - 1pcs; 102681-4 - 1pcs; 102536-7 - 1pcs;

## 3. Interfaces

3.1. Pulse Interface Specifications:

Fast Pulses: Pulse 50 ms - Pause 50 ms
Slow Pulses: Pulse 50 ms - Pause 300 ms

Pulse modes: 1pulse; 2pulses; 3pulses; 4pulses /\$1
Features: Pulse accumulation mode and Inhibit line

Isolated and Non-isolated Pulse output

ISOLATED PULSE Interface (INHIBIT LINE feature disabled)

- 1. Set DIP Switches 8(of 8)-ON, 4(of4)-OFF position.
- 2. Use 6 Pin Power Harness PT# AMZ-XXX-12-06. The Pulse Output is a bounce free N/O contact and polarity of the output wiring does not matter.

ISOLATED PULSE Interface (INHIBIT LINE feature enabled)

- 1. Set DIP Switches 8 (of 8)-OFF, 4(of4)-OFF position.
- 2. Apply Jumper Connector PT# AMZ-XXX-PUL-18 to 18 Pin connector of the bill acceptor.
- 3. Connect the bill acceptor to the machine controller via 6 Pin Power Harness PT# AMZ-XXX-12-06. The Pulse Output is a bounce free N/O contact and the polarity of the output connection does not matter.
- 4. Connection to the INHIBIT LINE depends on the machine controller lockout circuitry. See figure below:

Open Collector

CMOS Logic

Equipment

+ 5 V Q

74HC..

Validator

Pin

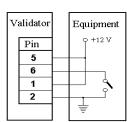
5

6

1

2

Va



Relay Contact

## 3.2. CashCode Serial Interface

+12 V

- 1. Set DIP Switch 8 (of 8) OFF, 4(of4)-OFF position.
- 2. Provide the power to the bill acceptor via 6 pin Power harness.
- 3. Connect the bill acceptor to the machine controller via 18 Pin Serial Harness

CashCode® Serial Interface (MEI compatible) Serial messages:

cusine cut o serial interiore (initial companiere) serial intessages.						
81h	82h	83h	84h	85h	86h	87h
\$1	N/A	\$5	\$10	\$20	\$50	\$100
89h	8Ah	8Bh	8Ch	8Dh	8Eh	8Fh
VEND	RETURN	REJECT	FAILURE	BOX	BOX	BOX
				FULL	ATTACHED	REMOVED

#### 3.3. Bi-Directional Interface

- 1.Set DIP Switches 8 (of 8) -OFF,
- 4 (of 4) ON position.
- 2. Provide the power to the bill acceptor via 6 Pin Power Harness.
- 3. Apply Bi-Directional interface adapter to connect the bill acceptor to the machine controller:

