Software Information Sheet

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General Information

Model Name:	WBA-10/11-SS/SU/SH/UH				SW. Req. No.	C17-174-01	A0682	
SW. Name:	WBA-10/11(USA)-SS ID-022/023				Date: (mm,dd,yyyy)	02.08.2006	Rev:	C1
SW. Version:	V3.60-03				Note:			
Country (Code):	United States of America (USA)				Guide:	Type 1: 66mm		
Currency:	Dollar				Check Sum:	0D8D		
					Kobetron ID:	11F0		
Direction:	1-Way ("A")				CRC (seed= 0000):	7B3F		

Denomination: Years & MRI Ident #

Denomi.	Printed	Issued	MRI#	Denomi.	Printed	Issued	MRI#
1	-	-	#443	20	'96~'01	-	#501
5	-	-	#444	20	'04	'03	#515
5	'93~	-	#491	50	-	-	#447
5	'99~	'00	#499	50	'90~'93	-	#488
10	-	-	#445	50	'96~	-	#502
10	'90~'95		#486	50	'04	'04	#516
10	'99~	'00	#500	100	-	-	#448
10	'04	'06	#514	100	'90~'93	-	#495
20	-	-	#446	100	'96~	-	#503
20	'90~'95	-	#487				

Barcode Ticket:	• Not accepted.
EPROM (WBA-11):	• 1 Mbit, 90 nano-second data access, or faster. ST Part M27C1001-90 or equivalent
Modifications:	

(Version 3.40-03 → 3.60-03)
- **Banknote Recognition:** Added next generation $10(Series 2004).
- **Banknote Recognition:** Improved counterfeit $100 detection. (1996, 2001, 2003 series)
- **Banknote Recognition:** Improved counterfeit $50 detection. (2001, 2003 series)
- **Banknote Recognition:** Improved recognition of $50 banknotes (2004 Series).
- **Machine Operation:** The pusher home sensor is monitored more closely during the push operation. (WBA will enter an error state if any abnormality is detected during this operation.)

(Version 3.39-03 → 3.40-03)
- **Banknote Recognition:** Acceptance issue with next gen $50. (Version 3.39-03).

(Version 3.35-03 → 3.39-03)
- **Banknote Recognition:** Counterfeit countermeasures: $10. (Version 3.35-03 accepted a variation of the counterfeit $10 that was being address).
- **Banknote Recognition:** Similar countermeasures implemented for the $10 bill were also implemented for $5, $20 and Next Generation $20. (Pre-emptive change).
- **Banknote Recognition:** Countermeasures for high quality $50 and $100 counterfeit notes found during evaluation at the Federal Reserve Bank.
- **Machine Operation:** Solenoid operation change. After the solenoid has been on for 1 second, change to chopper operation (Duty cycle: 2ms on, 3 ms off). This change was made to prevent the solenoid from overheating when left on for long periods of time)

(Version 3.34-03 → 3.35-03)
- **Banknote Recognition:** Counterfeit countermeasures: $10.
- **Banknote Recognition:** Improved $20 (2004) banknote recognition. (Added more data).
- **Machine Operation:** During Auto-calibration, the WBA will not listen to communication from the Host.
- **Machine Operation:** Motor Speed check method was adjusted.

Memo:

Dip Switch Settings

#		Dip Switch
1	OFF	Interface selection ID-023
	ON	Interface selection ID-022
2	OFF	1 ENABLE
	ON	1 DISABLE
3	OFF	5 ENABLE
	ON	5 DISABLE
4	OFF	10 ENABLE
	ON	10 DISABLE
5	OFF	20 ENABLE
	ON	20 DISABLE
6	OFF	50 ENABLE
	ON	50 DISABLE
7	OFF	100 ENABLE
	ON	100 DISABLE
8	OFF	OFF
	ON	TEST MODE

ID-023 "Denomination" Code Value

Code Value	Denomination
0	**1**
2	**5**
3	**10**
4	**20**
6	**50**
7	**100**

ID-023 Country Code Value

Code value	Country
37	USA

ID-022 Credit Pulse

Denomination	Credit Pulse	
1		
5	X=4times	
10	X=9times	
20	X=19times	
50	X=49times	
100	X=99times	

DIRECTION DATA

Sample demonination:100