

# Software Information Sheet



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## General Information

<b>Model Name:</b>	PUB-7/11-BIH-1020-X2				<b>SW.Req. No.</b>	C15-0434-01	G15-157		
<b>SW. Name:</b>	PUB-7(BIH) ID-002/0E3				<b>Date:</b> (mm,dd,yyyy)	06.05.2015		<b>Rev:</b>	A1
<b>SW. Version:</b>	V2.02-92				<b>Note:</b>	-			
<b>Country (Code):</b>	Bosnia-Hercegovina(BIH)				<b>Guide:</b>	Type-1(68mm/83mm)			
<b>Currency:</b>	Maraka				<b>Check Sum:</b>	297C			
<b>Direction:</b>	4Way				<b>CRC (seed= 0000):</b>	10A2			
<b>Denomination:</b>	<b>Denomi</b>	<b>Printed</b>	<b>Issued</b>	<b>MRI#</b>	<b>Denomi</b>	<b>Printed</b>	<b>Issued</b>	<b>MRI#</b>	
<b>Years &amp; MRI Ident #</b> 81 <sup>st</sup> Edition  BAM10.5, BAM10.6, BAM20.3, BAM20.4, BAM50.3, BAM50.4, BAM100.3 and BAM100.4 reference from MRI Bankers' Guide to Foreign Currency 78th Edition	10	-	'98	BAM10.1	50	-	'07	BAM50.1C	
	10	-	'98	BAM10.2	50	-	'07	BAM50.2C	
	10	'08, '12	'08	BAM10.3	50	-	'12	BAM50.1D	
	10	'08, '12	'08	BAM10.4	50	-	'12	BAM50.2D	
	10	-	'12	BAM10.5	50	-	'12	BAM50.3	
	10	-	'12	BAM10.6	50	-	'12	BAM50.4	
	20	-	'98	BAM20.1A	100	-	'98	BAM100.1A	
	20	-	'98	BAM20.2A	100	-	'98	BAM100.2A	
	20	-	'08	BAM20.1B	100	-	'07	BAM100.1B	
	20	-	'08	BAM20.2B	100	-	'07	BAM100.2B	
	20	-	'12	BAM20.1C	100	-	'12	BAM100.1C	
	20	-	'12	BAM20.2C	100	-	'12	BAM100.2C	
	20	-	'12	BAM20.3	100	-	'12	BAM100.3	
	20	-	'12	BAM20.4	100	-	'12	BAM100.4	
	50	-	'98	BAM50.1A,B	200	'02	'02	BAM200.1	
	50	'02	'98	BAM50.2A,B					
<b>Acceptance Rate:</b>	No less than 90%								
<b>EPROM:</b>	Flash ROM only(8Mbit)								
<b>Modifications:</b>	<b>V2.01-81 → V2.02-92</b>								
Validation:	1. Improve acceptance of BAM10.3B, BAM10.4B, BAM20.1C, BAM20.2C, BAM50.1D, BAM50.2D, BAM100.1C and BAM100.2C								
Operation:	1. Modified operation to monitor front solenoid status when acceptor is enabled and disabled. 2. Modified front solenoid drive with chopper for the flapper operation.								
Interface:	1. Add ccTalk remote download. 2. Remove ID003 interface. 3. Remove ID0D3 interface.								
<b>Memo:</b>	<ul style="list-style-type: none"><li>• This version supports 2 interfaces (ID002 and ID0E3).</li><li>• After downloading this software to a unit with the software Vx.xx-19 or before, the following process is required to reset the individual address:<ul style="list-style-type: none"><li>1.Set the DIP-switches #1 and #8 to “ON“.</li><li>2. Activate the unit.</li><li>3.The bezel LEDs will blink in white.</li><li>4.Set the DIP-switch #1 to “OFF“.</li></ul></li><li>• Once the Vx.xx-22 or Vx.xx-30 has been installed in the unit, the bezel illumination pattern #3, solid blue will continued to be set as default until the DIP-switches is re-set to select the illumination pattern after installing this software.</li><li>• The 10Maraka banknotes need to be inserted in the lower tray of the bezel.</li></ul>								

## Dip Switch Settings

#	Dip Switch		
1	OFF	Normal operation	
	ON	Test Mode(Setting Mode)	
2	OFF	1-time scan mode (without validation retry)	
	ON	2-time scan mode (with validation retry)	
3	OFF	Without Option Unit (future use)	
	ON	With Option Unit (future use)	
4	OFF	1-time spin mode	
	ON	5-time spin mode	
5	Serial I/F mode(Dip-Sw8=OFF)		Pulse I/F mode(Dip-Sw8=ON)
			SW5    PULSE WIDTH
			OFF    50ms/50ms
			ON    150ms/180ms
6	SW6	SW7	I/F selection
	OFF	OFF	Reserved
	ON	OFF	Reserved
	OFF	ON	ID-0E3 without Encryption
7	ON	ON	ID-0E3 with Encryption *1
8	SW6	SW7	Number of PULSE
	OFF	OFF	5 Maraka = 1 Pulse
	OFF	ON	1 Maraka = 1 Pulse
	ON	OFF	Reserved
8	ON	ON	Reserved
8	OFF	Serial I/F Mode ( Selected by Dip6&7 )	
	ON	Pulse I/F Mode	

\*1

When Encryption code becomes unknown in ID-0E3 encryption code, setDIP-SW1, 2, 3, 4, 5, 6 ON, DIP-SW7,8 OFF and supply power. Set DIP-SW1 OFF and the original encryption code (the last 6 digit of the serial number) is restored.

To write a new serial number manually, set DIP-SW1, 2, 3, 4, 5, 6, 7 ON, DIP-SW8 OFF, and supply power. Set DIP-SW1 OFF and the TAIKO enter the serial number writing mode. Enter 6-digit serial number using the Serial Number Writer program, and the entered number is stored as an encryption code.

### I) Denomination Setting Mode

1. Make a note of the current DipSw setting.
2. Power off.
3. Power up the acceptor at TEST MODE operation (DipSw1=ON).
4. Keep DipSw1=ON and set DipSw6=ON. Other Switches=OFF.
5. Set DipSW1=OFF to enter the standby mode (Status LED will Blink in sky blue or orange).
6. Set Enable or Disable mode
  - . Enable Denomination mode: DipSw7=OFF(Status LED will Blink in sky blue).
  - . Disable Denomination mode: DipSw7=ON (Status LED will Blink in orange).
7. Insert a bill you wish to set enable / disable.
8. Acceptor rejects the bill in one of the following conditions:
  - . When Enable Denomination Setting > Reject with status LED in Skyblue.
  - . When Disable Denomination Setting > Reject with status LED in orange.
  - . When validation was not good > Reject with status LED in red.
9. For another banknote, repeat from step 5.
10. If Setting is completed, power off.
11. Restore the original DipSw setting.
12. Power up.
13. Acceptor returns to standby mode, and the setup is completed.
14. After firmware update the setting remains unchanged.

All denominations will be enabled after the following process:

  1. Set DIP switches #1, #3, #4, #5, #6, & #7 to the "ON" position, #2 & #8 to the "OFF" position, and apply power to the unit.
  2. The bezel LEDs will be flashing in white.
  3. Set DIP switch #1 to the "OFF" position.
  4. The bezel LEDs will be lit in blue, and the setup is complete.

**\*\* Remark \*\***

This process will be effective only in the Vx.xx-36 or newer.

In the Vx.xx-35 or older, each denomination needs to be enabled manually.

### (\*2) LED Illumination Pattern Setting

1. Make a note of the current DipSw setting.
2. Power off.
3. [Pattern 1] Power up the acceptor with DipSw1,2,7 = ON. Other switches = OFF.  
[Pattern 2] Power up the acceptor with DipSw1,3,7 = ON. Other switches = OFF.  
[Pattern 3] Power up the acceptor with DipSw1,7 = ON. Other switches = OFF.  
[Pattern 4] Power up the acceptor with DipSw1,2,3,7 = ON. Other switches = OFF.  
[Pattern 5] Power up the acceptor with DipSw1,4,7 = ON. Other switches = OFF.  
[Pattern 6] Power up the acceptor with DipSw1,2,3,4,7 = ON. Other switches = OFF.
4. Power up.
5. Set DipSw1 = OFF, then LED illumination pattern is selected.
6. If Setting is completed, Power OFF.
7. Restore the original DipSw setting.
8. Power up.
9. Acceptor returns to standby mode and the setup is completed.

## ID-0E3 Data specification

Equipment category ID	“Bill Validator”		
Product code	“PUB-7”		
Build Code	“Standard”		
Manufacturer ID	“JCM”		
Software Revision	“V2.02-92”		
Comms Revision	“1”+”4”+”0”		
Polling priority	Units	Value	
	“1”	”200”	
	200ms = “1” + ”200”		
Country scaling factor	Scaling factor LSB	Scaling factor MSB	Decimal places
	100	0	2
Bill position	Data 1	Data 2	
	”00111110B”	“00000000B”	
Bill id	Bill TYPE x	Bill ID	
	Bill Type 1	“.....”	
	Bill Type 2	“BA0010A”	
	Bill Type 3	“BA0020A”	
	Bill Type 4	“BA0050A”	
	Bill Type 5	“BA0100A”	
	Bill Type 6	“BA0200A”	
	Bill Type 7	“.....”	
	Bill Type 8	“.....”	
	Bill Type 9	“.....”	
	Bill Type 10	“.....”	
	Bill Type 11	“.....”	
	Bill Type 12	“.....”	
	Bill Type 13	“.....”	
	Bill Type 14	“.....”	
	Bill Type 15	“.....”	
	Bill Type 16	“.....”	

**Bank note event code**

<b>Data</b>	<b>Denomination</b>
1	Reserved
2	10 Maraka
3	20 Maraka
4	50 Maraka
5	100 Maraka
6	200 Maraka
7	Reserved
8	Reserved

**Modify inhibit data**

<b>DATA bit</b>	<b>Data1</b>	<b>Data2</b>
0	Reserved	Reserved
1	10 Maraka	Reserved
2	20 Maraka	Reserved
3	50 Maraka	Reserved
4	100 Maraka	Reserved
5	200 Maraka	Reserved
6	Reserved	Reserved
7	Reserved	Reserved

## **Supported specification list**

1. cctalk Generic Specification Issue 3.2
2. cctalk Expansion for Bill Validators Issue 2.1
3. cctalk Serial Protocol Encryption Standard Version 1.0

## **Supported commands list**

### **1. Core Commands**

Header 192 - Request build code  
Header 244 - Request product code  
Header 245 - Request equipment category id  
Header 246 - Request manufacturer id  
Header 254 - Simple poll

### **2. Core Plus Commands**

Header 001 - Reset device  
Header 004 - Request comms revision  
Header 241 - Request software revision  
Header 242 - Request serial number

### **3. Bill Validator Commands**

Header 136 - Store encryption code  
Header 137 - Switch encryption code  
Header 138 - Finish firmware upgrade  
Header 139 - Begin firmware upgrade  
Header 140 - Upload firmware  
Header 145 - Request currency revision  
Header 152 - Request bill operating mode  
Header 153 - Modify bill operating mode  
Header 154 - Route bill  
Header 155 - Request bill position  
Header 156 - Request country scaling factor  
Header 157 - Request bill id  
Header 159 - Read buffered bill events  
Header 213 - Request Option flags  
Header 216 - Request data storage availability  
Header 227 - Request master inhibit status  
Header 228 - Modify master inhibit status  
Header 230 - Request inhibit status  
Header 231 - Modify inhibit status  
Header 247 - Request variable set  
Header 249 - Request polling priority

### **4. MDCES-Multi-Drop Command Extension Set**

Header 250 - Address Random  
Header 251 - Address Change  
Header 252 - Address Clash  
Header 253 - Address Poll