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OVERVIEW

UBA Component Locations



Figure 1 UBA Front & Right Side Primary Components

Lecture Notes

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TRAINING COURSE TARGETS

This training course addresses the following JCM UBA® device versions: **Table 1** UBA-1X/2X Versions

Device	Capacity
UBA-10	8 Meg Flash Memory
UBA-11	8 Meg EPROM
UBA-14	16 Meg Flash, USB compatible, SS Configuration
UBA-24	16 Meg Flash, USB compatible, SU Configuration
UBA-25	16 Meg EPROM, USB compatible, SU Configuration



NOTE: For UBA-24 SU Configuration, connect Pins 13 to 20 on the Rear Connector.

Lecture Notes

JUMPER CONFIGURATIONS

UBA-10/11 5.0V DC JUMPER CONFIGURATIONS

The required signal level can be selected by Jumpers located on the UBA-10/11 CPU Board.



NOTE: The CPU Board needs to be removed from the Acceptor unit in order to change the Jumper settings!



Figure 3 UBA-10/11 5.0V DC Jumper Configurations



NOTE: The UBA-14/24/25 does not contain Jumper provisions for selecting RS-232C Interface settings. An optional PCB must be installed to accomodate a RS232C Communications signal.

Lecture Notes

UBA-10/11 3.3V DC JUMPER CONFIGURATIONS

The required signal level can be selected by Jumpers located on the UBA-10/ $11\ \text{CPU}$ Board.



BILL ACCEPTANCE TEST

BILL ACCEPTANCE TEST MODES AVAILABLE

- Two Modes exist to run a UBA Bill acceptance test:
 - Testing the Transport and Frame.
 - Transport must be installed in the Frame (no Cash Box installed).
 - Testing the Transport and Frame with a Cash Box in place.
 - All Sensors and functions are tested including Cash Box functions.

ENTERING BILL ACCEPTANCE MODE

- Perform the following steps to enter Bill Acceptance Test Mode: 1. Turn the UBA Power OFF.
 - 2. Turn DIP Switch #8 ON, and apply power to the UBA Unit (Test Mode).
 - 3. Turn on DIP Switches according to the desired test listed in the Table 2 Chart.
 - 4. Turn DIP Switch #8 OFF to start the selected Bill Acceptance Test. The unit will cycle and be ready to accept and identify Bills.

Table 2 provides DIP Switch settings for performing various Bill Acceptance Tests.

Table 2 UBA Bill Acceptance Test DIP Switch Setting Table

UBA Bill Acceptance Test DIP Switch Settings DIP Switch Bill Acceptance Test Activated 1 2 3 4 5 6 7 8 Х* Х Х E/D† Acceptance without a Cash Box Х Х х Х E/D† Acceptance with a Cash Box

* X = ON

† E/D = Enable/Disable

Lecture Notes

BILL IDENTIFICATION IN BILL ACCEPTANCE MODE

- Identification is done by counting the flashes on the GREEN LED after a Bill is validated.
 - The following examples are listed for US Dollars:
 - -1 flash = \$1
 - -2 flashes = \$5
 - 3 flashes = 10
 - 4 flashes = 20
 - 5 flashes = \$50
 - 6 flashes = \$100
 - 16 flashes = Bar Code Ticket

NOTE: Visit www.jcmglobal.com, then click the Support tab > Downloads > Software Information. Fill in the selection information, then click SEARCH. This displays the Software Data Sheet containing the DIP Switch settings for your particular selection.

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ENTERING TEST MODE

- 1. Set DIP Switch No. 8 to "ON".
- 2. Apply power to the UBA.
- 3. Check that both the **RED** and GREEN diagnostic LEDs illuminate.
 - This is the indication that test mode has been entered.
- 4. Set the DIP Switches for the test to be executed.
- 5. Set DIP Switch No. 8 "OFF" to activate the test.
 - Both the **RED** and GREEN LEDs will turn off.
 - The test result will be shown by the RED or GREEN LED turning back on or flashing a code. Count the number of flashes between pauses to get the error code.
- 6. Set DIP Switch No. 8 "ON" to turn off (deactivate) the test.

Lecture Notes

TESTS

FUNCTIONAL TESTING

Table 3 provides a DIP Switch setting chart for performing UBA Functional Tests.

Table 3 UBA Functional Test DIP Switch Setting Chart

		[DIP S	witc	h		Functional Test	
1	2	3	4	5	6	7	8	i unctional rest
Х*							E/D†	Motor Forward Rotation Speed Test
	Х						E/D	Motor Reverse Rotation Speed Test
		Х					E/D	Stacker Performance Test
			Х				E/D	Run Test (Aging Test)
				Х			E/D	Anti Pull-back (PB) Unit Test (Anti-String Mechanism)
Х				Х			E/D	Centering Mechanism Test
	Х			Х			E/D	Solenoid Test (Tension Roller)
						Х	E/D	Sensor Test
Х	Х	Х					E/D	Bill Acceptance Test (No Cash Box)
Х	Х	Х	Х				E/D	Bill Acceptance Test (Complete Unit)
Х	Х	Х	Х	Х	Х	Х	E/D	DIP Switch Test

* X = ON

† E/D = Enable/Disable

Lecture Notes

MOTOR SPEED TESTS



Reverse

Forward Speed Test

- Enter "Test Mode" (refer to page 10)
- Set DIP Switch 1 "ON"
- Set DIP Switch 8 "OFF"
- Indications
 - Normal: GREEN LED = ON
 - Too Fast: RED LED Flashes 2x
 - Too Slow: RED LED Flashes 3x
- Set DIP Switch 8 "ON" to stop the test.

Reverse Speed Test

- Enter "Test Mode" (refer to page 10)
- Set DIP Switch 2 "ON"
- Set DIP Switch 8 "OFF"
- Indications
 - Normal: GREEN LED = ON
 - Too Fast: RED LED Flashes 2x
 - Too Slow: RED LED Flashes 3x
- Set DIP Switch 8 "ON" to stop the test.

Figure 5 Forward and Reverse Motor Speed Test Steps

Lecture Notes



RUN TEST (AGING TEST)

1	2	3	4	5	6	7	8	
								ON ↑

- Enter "Test Mode" (refer to page 10)
- Set DIP Switch 4 "ON"
- Set DIP Switch 8 "OFF" to activate
- Indications
 - Normal: BOTH LED = OFF
 - Stacker Full: RED LED Flashes 1x
 - Stacker Jam: RED LED Flashes 2x
 - Acceptor Jam: RED LED Flashes 4x
 - Motor Lock: RED LED Flashes 6x
 - Upper Board Setup Error: RED LED Flashes 7x
 - PB Unit Error: RED LED Flashes 9x
 - Cash Box Error: RED LED Flashes 10x
 - Solenoid Error (tension roller): RED LED Flashes 13x
- Set DIP Switch 8 to "ON" to stop the test.

Figure 7 Run Test Steps

Lecture Notes

TRANSPORT TESTS







PB Unit Test (Anti-string mechanism)

- Enter "Test Mode" (refer to page 10)
- Set DIP Switch 5 "ON"
- Set DIP Switch 8 "OFF" to activate
- Indications
 - Home position: GREEN = ON
 - Rotating: GREEN = OFF
 - PB Unit Error: RED LED Flashes 9x
- Set DIP Switch 8 "ON" to stop the test.

Centering Mechanism Test

- Enter "Test Mode" (refer to page 10)
- Set DIP Switch 1 and 5 "ON"
- Set DIP Switch 8 "OFF" to activate
- Indications
 - Wide open: GREEN = ON
 - Other: GREEN = OFF
 - Centering Mechanism Error: RED LED Flashes 14x
- Set DIP Switch 8 "ON" to stop the test.

Solenoid Test (Tension Roller)

- Enter "Test Mode" (refer to page 10)
- Set DIP Switch 2 and 5 "ON"
- Set DIP Switch 8 "OFF"
- Indications
 - Solenoid Sensor on: GREEN = ON
 - Solenoid Sensor off: GREEN = OFF
 - Solenoid Error: RED LED Flashes 13x
- Set DIP Switch 8 "ON" to stop the test.

Figure 8 Transport Test Steps

TRANSPORT SENSOR LOCATIONS

Figure 9 illustrates the UBA Sensor locations within the UBA Unit.



Figure 9 UBA Transport Sensor Locations

Lecture Notes	
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TRANSPORT SENSOR TEST

Table 4 provides a DIP Switch setting chart for performing various Transport Sensor Tests.

 Table 4
 Various Transport Sensor Tests

Enter "Test Mode" (refer to page 10)
Set DIP Switch 7 "ON"
Set DIP Switch 8 "OFF" to activate

Indications – See chart below
Set DIP Switch 8 "ON" to stop the test.

DIP Switch	Sensor Name	LED Color	LED "ON" Condition
	Entrance Sensor	GREEN	Sensor Blocked
1	Centering Mechanism Timing Sensor	RED	Sensor Blocked
2	PB-In (Anti Pull-Back -In) Sensor	GREEN	Sensor Blocked
2	Exit Sensor	RED	Sensor Blocked
	PB (Anti Pull-Back) Home Sensor	GREEN	Sensor Blocked
3	Centering Mechanism Home Sensor	RED	Centering mechanism in home position
4	Transport Motor Encoding Sensor	GREEN	Detecting the encoder
4	Stacker Motor Encoder Sensor	RED	Detecting the encoder
5	Pusher Home Sensor	GREEN	Pusher mechanism is in the home position
	Cash Box Installed Sensor	RED	Cash Box is installed

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DIP SWITCH TEST

1 2 3 4 5 6 7 8

2 3 4 5 6 7 8

6 7 8

7 8

2 3 4 5

1 2 3 4 5 6

Table 5 provides a DIP Switch setting chart for performing a UBA DIP Switch Test.

 Table 5 UBA DIP Switch Test Table

- Set all DIP Switches "ON"Apply power to the UBA
 - Set DIP Switch 8 "OFF" to start test
 Indications Chart line #1
 - Set DIP Switches 2, 4, 6 "OFF"
 Indications Chart line #2
 - Set DIP Switches 2, 4, 6 "ON" and 1, 3, 5, 7 "OFF"
 Indications Chart line #3
 - Set all DIP Switches "OFF"
 - Indications Chart line #4

DIP Switch Pack #1							LED	Status	
1	2	3	4	5	6	7	8		Olalas
							Х*	GREEN LED = OFF	RED LED = OFF
	Х		Х		Х		Х	GREEN LED = ON	RED LED = OFF
Х		Х		Х		Х	Х	GREEN LED = OFF	RED LED = ON
Х	Х	Х	Х	Х	Х	Х	Х	GREEN LED = ON	RED LED = ON

* X = OFF

Lecture Notes

CLEANING THE UNIT

NOTE: For improved performance, UBA Cleaning Frequency is 70,000 Acceptance Cycles.

- Use only a mild soap and water solution Do **NOT** use Solvents, Alcohol or Citrus based cleaners!
- Wipe the Lenses, Belts, Rollers and Bill Path until clean.
 - Use the Motor Speed Test to activate the belts.
- If a Lens is altered in any way (scratched, clouded, etc.), it MUST be replaced.
- Do not scratch the Rollers because they will attract dirt faster, increasing PM scheduling.
- If you can see timing marks through the Belts, or if frayed edges are visible, replace the Belts.
- If 'O' Rings are cracked, replace them.
- JCM authorized Cleaning Cards are available and supported in all Software Versions.

Lecture Notes

FORCED DOWNLOAD MODE

Normally, the DIP Switches do not need to be set for downloading. However, the unit may need to be force downloaded if the current program becomes corrupted.

If the unit needs to be "Force Downloaded," set the DIP Switches as shown in Table 6.

Table 6 provides DIP Switch settings for performing a Forced Download.Table 6 UBA Forced Download DIP Switch Setting Table

	UBA Forced Download DIP Switch Settings								
DIP Switch							Selected Download around		
1	2	3	4	5	6	7	8	- Selected Download speed	
					Χ*	Х*	Х*	UBA Forced Download Mode	

* X = ON

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DOWNLOADING SOFTWARE INTO A UBA UNIT

Use either of the following methods for downloading Software into a UBA Unit, as described below:

- JCM Tool Suite[™] Software Application
- JCM BlueWave 2.0TM Download Tool

Download Software with JCM Tool Suite™

- 1. Set DIP Switches 6, 7 and 8 to ON, as shown in Table 6 on page 20. This step will reduce the time necessary to download software.
- 2. Connect the UBA USB Port to the PC using a Male 'A' to Male 'B' USB Cable.
- Apply Power to the UBA Unit. The RED and GREEN LEDs will flash alternately.
- Launch the JCM Tool Suite Application (Figure 10). The Device Information screen Communication Status: field will display as: Connected.

ile Help		
Device Information		
Communication Status	Connected	
Device Type		
BOOT ROM Version	,	
Flash ROM Status		
Serial Number		
Flash ROM Version		
Flash ROM CRC16	-	
Protocol ID		
Service Mode	-	
	Download	

Figure 10 JCM Tool Suite Standard Edition Device Information Screen

- 5. Click the Service Mode drop down menu, then click Download (Figure 10). The Download Program opens.
- 6. Click "Browse" and select the proper file on the PC to be downloaded to the UBA Unit.
- 7. Click "Open" on the Browser.
- 8. Click the "Download" Download Screen Button on the JCM Downloader Suite Edition Version x.xx window to begin the download (Figure 11 on page 22). Download progress will be displayed by a BLUE Progress Bar. When complete, the message "Download Success. Reset Done. Waiting for USB Cable Disconnection." will be displayed.
- 9. Verify that the Device CRC (Figure 11 a) and the File CRC (Figure 11 b) match, indicating a successful download.

10.Reset DIP Switches to the Operating Position.

11. Reset Power on the UBA Unit.

	File(F) Op	otion(O) Help(H)						
	Host				- 1			
	File	Downloading WextGen 1	00\UBA 10\u10_27051_id003	_usa\u10_27051_id003.usa	Browse			
L	CRC	EE8D						
	Version	U(USA)-10-SS ID003-03	V270-51 31MAR 14					
	Device							
	CRC	EE8D						
			Download	Auto Download Mode				
	Download Success. Reset Done. Waiting for USB Cable Disconnection.							
				Decet				
				Reset				

Figure 11 JCM Downloader Suite - Download Completed Successfully

Download Software with BlueWave 2.0™ Download Tool

- 1. Power on the BlueWave Download Tool.
- 2. Apply power to the UBA Unit.

NOTE: The UBA Unit may be in either Operational Mode (No DIP Switches ON) or Forced Download Mode (DIP Switches #6, #7 and #8 ON).

- 3. Connect the UBA USB Port to the BlueWave Download Tool using a Male 'A' to Male 'B' USB Cable.
- 4. When the Top LED on the BlueWave Download Tool turns GREEN, press the LOAD button.
- 5. When all three LEDs on the BlueWave Download Tool are ON, downloading is complete.

NOTE: Refer to the JCM Tool Suite Software Installation Guide (P/N 960-100923R) for more information on using the JCM Tool Suite Software Application. To access this manual, visit www.jcmglobal.com, then click the Support tab > Downloads > Installation Guides).

For information on using the BlueWave Download Tool, refer to the DT-200 BlueWave 2.0^{TM} Download Tool Operator Guide (P/N 960-100924R). To access this manual, visit www.jcmglobal.com, then click the Support tab > Downloads > Product Manuals).

UBA CALIBRATION

The Sensors on the UBA Unit only require calibration if any of the following conditions occur:

- The CPU Circuit Board is replaced;
- Any Sensor PCB is replaced;
- If a Bench Repair is completed.

To calibrate the UBA Unit, the following tools are required:

- MAG Tool Kit (JAC Part No. 701-100086RA);
- JCM Tool Suite[™] Software Application.

NOTE: The UBA must be installed in a Frame Assembly to perform calibration.

To calibrate the UBA Unit, proceed as follows:

- 1. Connect the UBA USB Port to the PC using a Male 'A' to Male 'B' USB Cable.
- 2. Ensure that all DIP Switches on the UBA Unit are OFF.
- 3. Apply Power to the UBA Unit.
- Launch the JCM Tool Suite Application (Figure 10). The Device Information screen Communication Status: field will display as: Connected.
- 5. Click the Service Mode drop down menu, then click Sensor Adjustment. The Download Program opens.
- 6. To begin Calibration, click the "START" Screen Button (Figure 12 a), then follow the screen prompts.

Status			
	X STOP	Change Serial #	

Figure 12 UBA1x Adjust for UBA Tool Suite Edition Version x.xx Screen

NOTE: If a UBA-14 or UBA-24 Unit is being calibrated, a popup box will appear when Calibration begins. Ensure that the correct UBA Model number is selected for the Unit being calibrated.

For additional information, refer to the UBA® Series Universal Bill Acceptor (UBA-1x-SS & UBA-x4-SS/SU) Operation and Maintenance Manual (P/N 960-000097R). To access the UBA Operation and Maintenance Manual, visit www.jcmglobal.com, then click the Support tab > Downloads > Product Manuals.

CALIBRATION ERROR TABLES

Table 7 lists the UBA Calibration Errors that may occur during Calibration.**Table 7** Calibration Error Table

Error Code	Displayed Message	Description/Cause				
4-A	Gain Error (Value over 4.3V)	Light receiving Adjustment Error. Check for dirty or wrong Calibration Paper use.				
4-B	Adjustment Error	Sensor Light Quantity Adjustment Error. Replace either the Upper or Lower Sensor PCB.				
4-C	Black Level Error	Sensor Light Quantity Adjustment Error. Ensure that the Black Reference Paper is properly inserted.				
4-E	Gain Error	Light Receiving Adjustment Error. Clean Sensors. Replace Upper or Lower Sensor PCB.				
4-G	Front/Back/Pbin/Width Level Error	Triggering Sensor Light Receiving Error. Clean the Sensor. Wrong Calibration Paper being used during UV Sensor Adjustment. Replace the Exit Sensor. NOTE: The UBA must in installed in a Frame during Calibration.				
6-A						
6-B	Offset Error	Light Receiver Circuit Abnormality. Clean Sensors. Replace either the Upper or Lower Sensor PCB.				
6-C						
	Adjustment Error					
MAG	Adjustment Error Under 0.74V	Magnetic Sensor Adjustment Error. Replace the Upper Sensor PCB.				
	Gain Max Limit Error	Sensor Abnormality. White Reference Paper not inserted correctly.				
	Bar Gain Max Limit Over Error	Sensor Abnormality. For UBA 1x, replace the Upper Sensor PCB. For UBA 24, replace the Lower Sensor PCB				
No	UV Gain Max Limit Over Error	Sensor Abnormality. Clean UV Sensor and White Reference Block. Ensure UV Reference Paper is inserted with its Label up, covering the White Reference Block.				
Code	A/D Data Level Error	Light Receiving Level Error. Ensure the White Reference Paper is inserted completely and correctly placed.				
	PBin/Width D/A Error	Triggering Sensor Adjustment Error. Clean PB In-Sensor or Reference Paper is not inserted correctly.				
	Motor Speed Error	Transport Motor Speed Error.				
	EEPROM Write Error	Adjustment Value Writing Error. Replace the Processor PCB.				

SENTRY BEZEL

The Sentry Bezel offers the following visual display of validator operations:

- Three indicator panels display information
 - Runway lights
 - Acceptable denominations and last bill inserted
 - Diagnostic Icons for troubleshooting.

SENTRY NORMAL OPERATIONS

- Runway Lights
 - Flashing in an insertion mode ready to receive bill
 - Flashing side to side, bill inserted and being validated.
- Denomination lights
 - The denomination panel displays acceptable denominations by illuminating the denomination light in GREEN.
 - Denomination lights are not lit for bills not accepted
 - For the last bill denomination received and validated, the Denomination LED will be displayed in ORANGE.

Lecture Notes

SENTRY PERFORMANCE INDICATORS

Figure 13 illustrate the various operational performance LED indications that can appear on a Sentry control panel.



UBA STARTUP MALFUNCTION ERRORS

Table 8 lists the possible UBA Startup malfunction LED Flash Codes.Table 8 UBA Startup Malfunction LED Flash Codes

RED LED Flashes	GREEN LED Status	Failure Condition	Possible Causes
OFF	ON	Processor Malfunction	Replace CPU Board
1	ON	Boot ROM Failure	Replace CPU Board or EPROM on UBA-14/24 Unit
2	ON	Corrupted Program (Flash or EPROM)	UBA-10/14/24 - Reflash the UBA ROM or Replace the CPU Board. On UBA-11/ 25, Replace the EPROM.
3	ON	Internal RAM Failure	Replace CPU Board
4	ON	External RAM Failure	Re-Flash or Replace EPROM Memory
5	ON	Missing Boot EPROM (UBA-14/24)	Install a new Boot EPROM
3	OFF	ICB Error	ICB Disabled on Validator or Cash Box is Active*.
5	OFF	No Calibration	New Processor PCB exists, or Calibration was not performed.
11	OFF	ICB Cash Box Communication Error (Failure Type 02)*	ICB Enabled UBA, but NO Communication or Power to Cash Box exists.
12	OFF	ICB Cash Box Check Sum Error (Failure Type 07)*	ICB Cash Box Checksum Error. Replace Cash Box with a "Cleared" Box
13	OFF	ICB Cash Box Installed in Wrong Machine (Failure Type 08)*	Wrong or Active Cash Box installed. Install a "Cleared" Cash Box
14	OFF	ICB Cash Box Data Not Initialized (Failure Type 09)*	Un-Initialized ICB/NO Box Serial Number. Install a "Cleared" Cash Box
15	OFF	ICB Module (Failure Type AF)*	ICB Module Failure. Replace CPU PCB.

* NOTE: The Bezel Light will quickly flash three (3) times when an ICB Error occurs.

Lecture Notes

UBA OPERATIONAL MALFUNCTION ERRORS

Table 9 lists the possible UBA Operational Malfunction LED Flash Codes. **Table 9** UBA Operational Malfunction LED Flash Codes

RED LED Flashes	GREEN LED Status	Failure Condition	Possible Causes
1	OFF	Cash Box Full	Stacker Encoder Error or Full Cash Box
2	OFF	Stacker Pusher Mechanism fault, Transport Jam Type 1	Stacker Motor Failure, Stacker Encoder Failure and/or Stacker Jam
3	OFF	Transport Jam Type 2	Exit Sensor Board Failure or Banknote Jam at Exit Sensor
4	OFF	Stacker Encoder signal fault; Jam in the Acceptor	Acceptor Jam, Stacker Encoder Board fault and/or Harness misfits
5	OFF	Transport Motor speed too fast or slow	Transport Encoder Failure or Belt Jam
6	OFF	Transport Motor fault	Motor or CPU Board Failure
7	OFF	Sensor Failure	Check and/or Replace Upper & Lower Sensor Boards
8	OFF	Communications Error with CPU	Replace Upper Sensor Board or CPU Board
9	OFF	Anti-Pullback (PB) Unit Fault	PB Unit Jam, Anti-Pullback Home Sensor Failure or Lower Sensor Board Failure
10	OFF	Cash Box not seated or not present	Re-seat Cash Box or Cash Box Sensor Board Failure
11	OFF	ICB Module Communications Error	Missing or defective ICB Module
12	OFF	A Sensor detects movement in the wrong direction	Unit Cheated, Sensor blocked/ or out of sequence. Clean/check for debris
13	OFF	Centering Mechanism Solenoid fault	Clean Solenoid, Check linkage; possible Upper Sensor Board Error
14	OFF	Centering Mechanism fault	Jam in Centering Mechanism or Home Sensor Error
15	OFF	Reserved	N/A

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UBA BARCODE TICKET/COUPON REJECT ERROR CODES

Table 10 lists the UBA Barcode Ticket/Coupon Reject Error Codes. **Table 10** UBA Barcode Ticket/Coupon Reject Error Codes

RED LED Status	GREEN LED Flashes	Failure Condition	Possible Causes
OFF	1	Barcode Function Not Set	Acceptance of Ticket is Disabled
OFF	2	Format unknown	Incorrect Barcode Format
OFF	3	Character Length	Improper Character Length
OFF	4	Start Character	Could not find the Start Character
OFF	5	Stop Character	Could not find the Stop Character
OFF	6	Barcode Type Error	Barcode Format Error
OFF	7	Reserved	N/A
OFF	8	Ticket Transparency	Double tickets detected
OFF	9	By DIP Switch	Check Switch Position Settings
OFF	10	Photo Level	Barcode Too Light
OFF	11	Upside-down Ticket	Index Mark on the wrong side
OFF	12	Reserved	N/A
OFF	13	Ticket Length	Ticket length is too long or too short
OFF	14	Reserved	N/A
OFF	15	Reserved	N/A

Lecture Notes

REJECT ERROR CODES

Table 11 lists the various UBA Reject Error Code conditions.Table 11 Reject Error Code Table

RED LED Status	GREEN LED Flashes	Failure Condition	Possible Causes
OFF	1	Slant Banknote Insertion	Check Banknote Condition, Entrance Sensor and Validation Sensors - Re-Insert Banknote
OFF	2	Magnetic Sensor Pattern error	Clean Magnetic Head and Rollers or Replace Upper Sensor Board
OFF	3	Paper detected inside Acceptor at Standby	Clean ALL Transport Sensors - Check for debris in Transport Path
OFF	4	Optical Sensor Level error	Clean all Transport Sensors. Replace Upper & Lower Sensor Boards
OFF	5	Banknote Feed error (Timing)	Check and clean all Belts and Rollers - Check for debris in Transport Path
OFF	6	Banknote Identification error	Clean ALL Transport Sensor Lenses - Possible poor Banknote condition
OFF	7	Barcode Reading error	Clean Bar Code Sensor/Upper Sensor Board Error
OFF	8	Double Notes/Tickets detected	Clean Sensor Lenses - Check for double Banknotes
OFF	9	Inhibited Banknote	Clean all Transport Sensors. Check DIP Switch Settings and/or Game settings
OFF	10	Bill Return Command	Check DIP Switches for proper Settings. Bill inhibited by Host Machine
OFF	11	Reserved	N/A
OFF	12	Banknote Detection error	Clean ALL Transport path Sensors
OFF	13	Banknote Length error	Check and clean ALL Belts and Rollers
OFF	14	Photo Pattern Error	Check for dirty/clouded Lenses. Clean all Lenses.
OFF	15	UV Optical Sensor	Check and clean the UV Sensor and White Reflection Block in Transport

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UBA-1X PARTS LIST

Part Number - Description

- 701-000148R PS75-002 Power Supply
- 400-100110R Extension Cable
- 950-100063R Sentry Quick Reference Card
- 808-001035R Plastic Cash Box with ICB
- 808-001036R Plastic Cash Box without ICB
- 501-000180R Cleaning Card
- 960-000131R UBA Flip Book
- 701-100086RA Mag Tool Kit
- 701-100103R UAC Kit (UBA)

Lecture Notes

PERSONAL NOTES AND COMMENT AREA

Write any pertinent notes or comments regarding your particular installation here.

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