



Bill Recycler

Bry Series
Installation Guide

Use of Materials Limitations

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1. Introduction

1-1. Features

- BRV is the latest Bill Acceptor equipped with Recycle-unit, the capacity of the Recycle-unit is up to 30 bills.
- BRV supports various type of interface in vending machine or payment system.
- Standard MDB bezel for easy installation.

2. Specifications

Validation rate

96% or higher

Note: The acceptance rate excludes notes that are dirty, wet, broken or wrinkled.

Bill width validated

62~68mm

Bill Insertion

4 - way Acceptance

Escrow

1 bill

Transaction Speed

Approx. 4 sec. to recycler

Approx. 3 sec. to bill box

Interfaces

RS232(ICT-BC)

JPSTD

MDB

Power Sources

12V DC±10%

24V DC±10% 34V DC±10%

Power Consumption

Standby: 350mA, 4.2W

Operation: 2.5A, 30W

Maximum: 4A, 48W

Environment

Operating Temperature: 0°C~60°C

Storage Temperature : -30°C~70°C

Humidity: 30%~95% RH

(no condensation)

Firmware Updates

USB flash disk

MDB-FTL

MTB

Bill Box Capacity

Bill box: Approx. 300 bills

Approx. 500 bills

Recycler: Approx. 30 bills

3. Packing List

Main

Bill Recycler

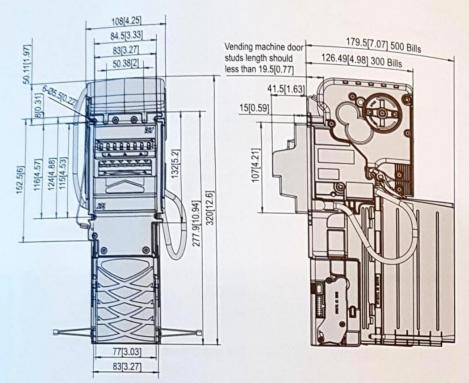
Accessory

Harnesses: Refer to 5-1

BRV Installation Guide

BRV DIP Switch Setting Guide

4. Dimension



Unit: mm [inch]

5. Installation

5-1. Harness Application

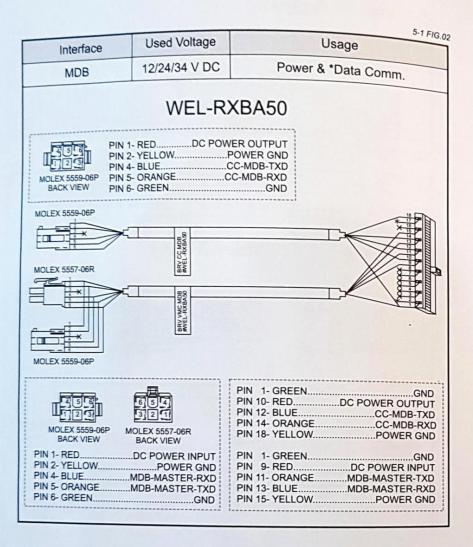
5-1 TABLE.01

Interface	Used Voltage	Usage	Harness	Page
RS232	12/ 24/ 34V DC		WEL-RXBA49	5
MDB		Power &	WEL-RXBA50	6
JPSTD		*Data Comm.	WEL-RXBA46	7

*Data Comm.: Data Communication.

5-1 FIG.01

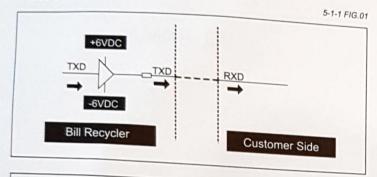
Interface	Used Voltage	Usage	
RS232	12/24/34 V DC	Power & *Data Con	nm.
	WEL-R>	(BA49	
	O (05 04 03 02 07 05) D-SUB 9F TOP	PIN 2- WHITE	3232-RXD
1	BRV RC232 #WEL-RXBA49		D-SUB 9F
PIN 3- RED PIN 5- WHITE PIN 10- RED			

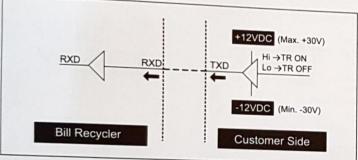


5-1 FIG.03 Usage Interface Used Voltage **JPSTD** Power & *Data Comm. 12/24/34 V DC WEL-RXBA46 PIN 8- YELLOW..... PIN 4- GREEN.....RXD PIN 6- BLUE..... PIN 10- RED.....DC POWER INPUT PIN 18- ORANGE.....GROUND BRV JPSTD #WEL-RXBA4 JST XLR-08V PIN 4- YELLOW..... PIN 5- GREEN.....RXD PIN 6- BLUE..... PIN 1- RED.....DC POWER INPUT JST XLR-08V **BACK VIEW** PIN 8- ORANGE.....GROUND

5-1-1. I/O Circuit

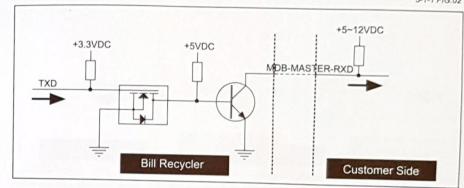
RS232 Interface

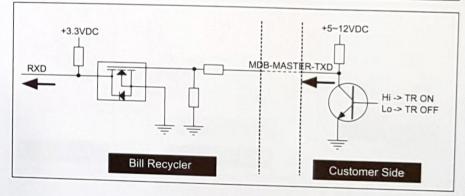




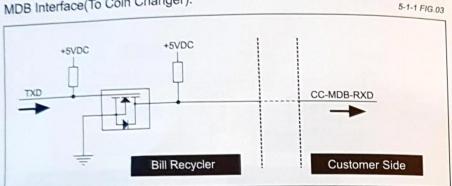
MDB Interface(To VMC).

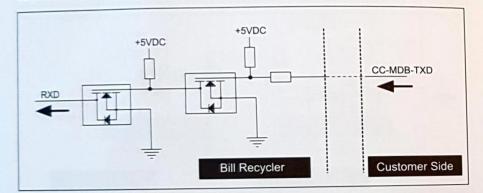
5-1-1 FIG.02





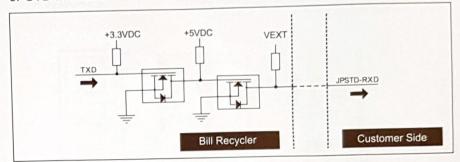
MDB Interface(To Coin Changer).

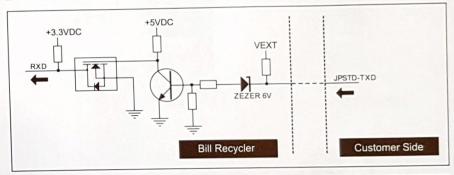


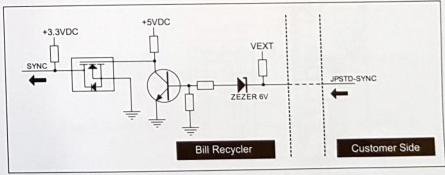


JPSTD Interface

5-1-1 FIG.04





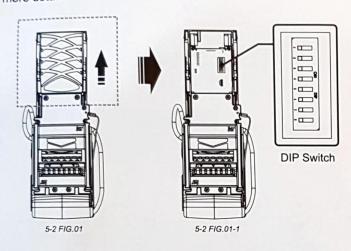


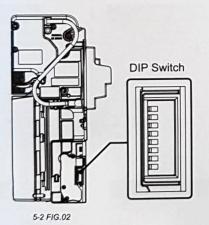
-10-

5-2. DIP Switch Setting

Two dip switches are located on as 5-2 FIG.01 the CPU board, and as 5-2 FIG.02 the sides of BRV.

Please refer to "BRV DIP Switch Setting Guide" in the package for more detail.



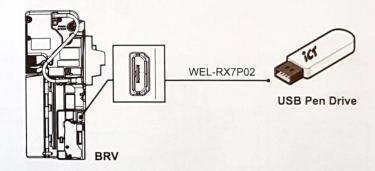


5-3. Firmware Download and Upgrade

Step 1. Put the "BRVxxxxxxxxxxxxxxxxxx.bin" file into your USB flash disk.



Step 2. Turn off the BRV, plug the USB flash disk into the USB connector on the BRV with USB extension cable and then turn on the BRV.



Step 3. The LED of bezel will flash twice, and then remove the USB flash disk from the BRV.

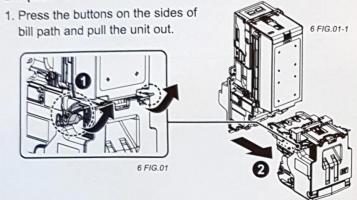
Step 4. The BRV will automatically reset and standby for normal operation.

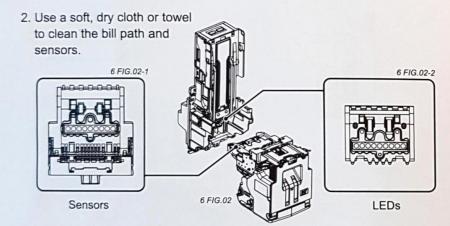
6. Maintenance

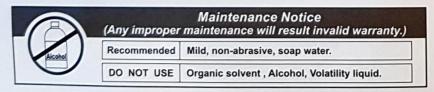
To make sure the bill acceptor always works smoothly, please clean the internal parts regularly.

To clean the internal parts (2 bill paths):

Bill path - 1

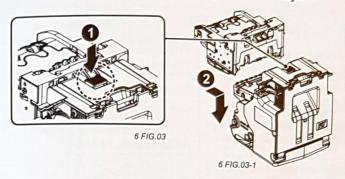




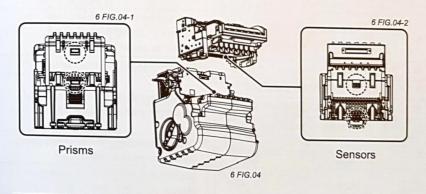


Bill path - 2

1. Press the buttons on the top to separate the recycler.



2. Use a soft, dry cloth or towel to clean the second bill path, sensors and RC's prisms.





7. Troubleshooting

7-1. Bezel LED Errors

7-1 TABLE 01

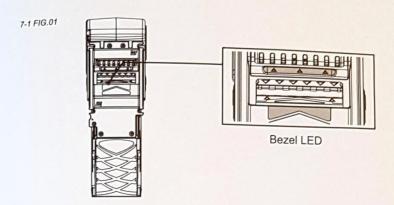
LED	Meaning	Solutions	
Green	White card Calibration	Use ICT white card to calibration Bill Validator.	

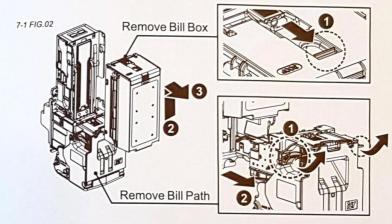
7-1 TABLE 02

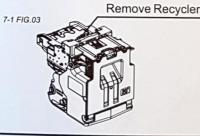
LED Flashes		Meaning	Solutions	
Red	Green	meaning	Solutions	
1		Indicate that something has jammed the bill path.	Inspect for foreign object or banknote. (Refer to page 17)	
2		Indicate that bill acceptor is not enable.	Please inspect dip switch setting.	
3		Indicate that bill acceptor is having input sensor problem.	Please inspect or clean any foreign object on sensor or on bill path. (Refer to page 14 & 15)	
3	1	Optical anti fishing sensor module error.	Remove LED housing: Inspect for foreign object and clean on Security hook.	
3+2		Indicates that the unit is having hook sensor problem.		
3+4		Banknote path sensor error		
4		Indicates that the unit has detected fishing issue.	Inspect for dirt or foreign object on sensor or on bill path. (Refer to page 14 & 15)	
5		Stacker removed.	Please replace the stacker box.	
5	1	Recycle motor problem.	Clean foreign object from inside of Recycler. (Refer to page 17)	
5	2	Recycle bill jammed.		
5	3	Recycle sensor error.		
6		Stacker error or stacker full.	Stacker full of banknote or the press banknote module error.	
7		Motor error.	Inspect for dirt or foreign object on sensor or on bill path.	

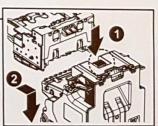


If the error can not be solved after corrective actions or it recurs, please contact ICT for technical support.











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Taiwan International Currency Technologies Corporation

No.28, Ln. 15, Sec. 6, Minquan E. Rd., Neihu Dist., Taipei City 114, Taiwan sales@ictgroup.com.tw (For Sales)
fae@ictgroup.com.tw (For Customer Service)
Website: www.ictgroup.com.tw