



Change Machine
EX-1750
(Top Up Mach.)

Installation Guide

International Currency Technologies Corp.

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Contents

1. Introduction

1-1. Overview.....	2
1-2. Features.....	2

2. Specifications

2-1. EX-1750(Top Up Mach.).....	3
2-2. RFID.....	3
2-3. Bill Acceptor(XBA).....	4

3. Packing List.....4

4. Dimension

4-1. EX-1750(Top Up Mach.).....	5
4-2. RFID.....	6
4-3. Bill Acceptor(XBA).....	6

5. Component names.....7

6. Installation

6-1. Connection.....	8
6-2. DIP Switch Setting	
6-2-1. Bill Acceptor(XBA).....	8
6-2-2. Card Vending Dispenser(CVD).....	9
6-2-3. RFID.....	9
6-3. Software Download and Upgrade.....	10
6-4. Quick Start for Use EX-1750(Top Up Mach.)	10
6-5. Hardware Functional Diagram.....	18

7. Maintenance..... 19

8. Troubleshooting

8-1. Bill Acceptor(XBA).....	20
8-2. Card Vending Dispenser(CVD).....	21

1. Introduction

1-1. Overview

EX-1750(Top Up Mach.) change banknotes into one type of card. Sturdy and compact change machine for indoor use; equip with innovative XBA bill acceptor, CVD and RFID to offer superior performance in any situation. RFID with front LCD-display for easy understanding of the operation status. EX-1750(Top Up Mach.) is simply an ideal solution fits your need.

1-2. Features

- ♦ High performance, capacious bill acceptor and CVD.
- ♦ Removable, modular design for easy maintenance.
- ♦ Easy card refilling.
- ♦ RFID with LCD-display shows backward counting numbers while dispensing.
- ♦ Memorize unpaid number of coins and resume dispensing after refill.
- ♦ High security through solid safety lock.

2. Specifications

2-1. EX-1750(Top Up Mach.)

Electrical

Power Source

AC110 $\pm 20\%$
AC220 $\pm 20\%$
47~63Hz
(Customer select specifications)

Operation Environment

Operation Temperature: 5°C~50°C
Storage Temperature: -20°C~70°C
Humidity: 30%~85%RH
(no condensation)

Mechanical

Outline Dimension

Refer to page.5

Weight

Approx. 21kg

2-2. RFID

Power Source

DC 12V $\pm 10\%$

Operation Environment

Operation Temperature: 5°C~50°C
Storage Temperature: -20°C~70°C
Humidity: 30%~85%RH
(no condensation)

Outline Dimension

Refer to page.6

2-3. Bill Acceptor(XBA)

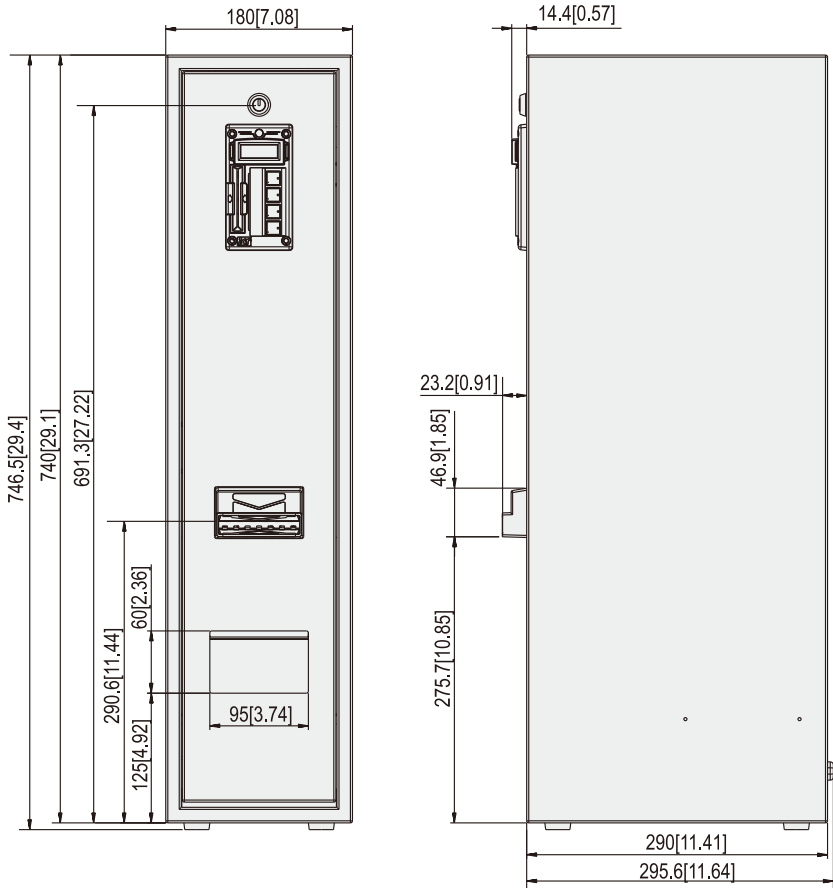
Acceptance Rate	98% or greater
<i>Note: The incomplete bills such as extremely dirty, wet, broken or wrinkled ones are excluded.</i>	
Bill insertion	Four-way acceptable
Interface	ICT Protocol
Transaction Speed	Approx. 2.5 seconds to stack
Power Source	12V DC±10% 24V DC±10%
Operation Consumption	Standby: 0.15A, 1.8W Operation: 1.0A, 12W Maximum: 2A, 24W Power Saving Mode- Mode 1: 50μA Mode 2: 15μA
Outline Dimension	Refer to page.6

3. Packing List

Main	EX-1750(Top Up Mach.) (Includes Bill Acceptor, CVD and RFID inside)
Accessory	EX-1750(Top Up Mach.) Installation Guide. Two pairs of keys. Bill Acceptor Installation Guide. CVD Installation Guide. Dip Switch Setting Guide.

4. Dimension

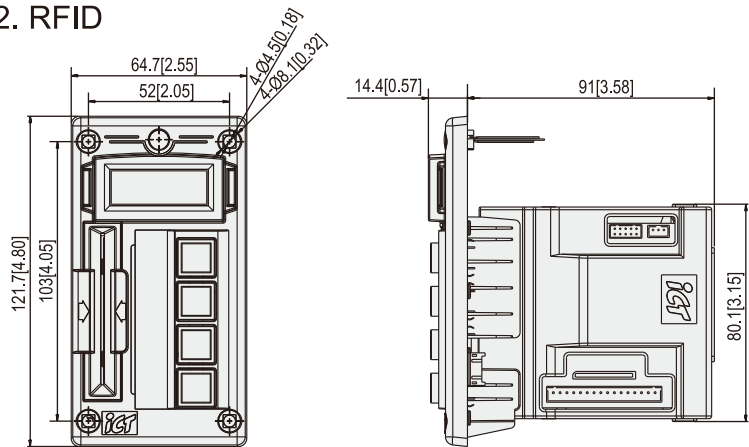
4-1. EX-1750(Top Up Mach.)



Unit : mm [inch]

4-1 FIG.01

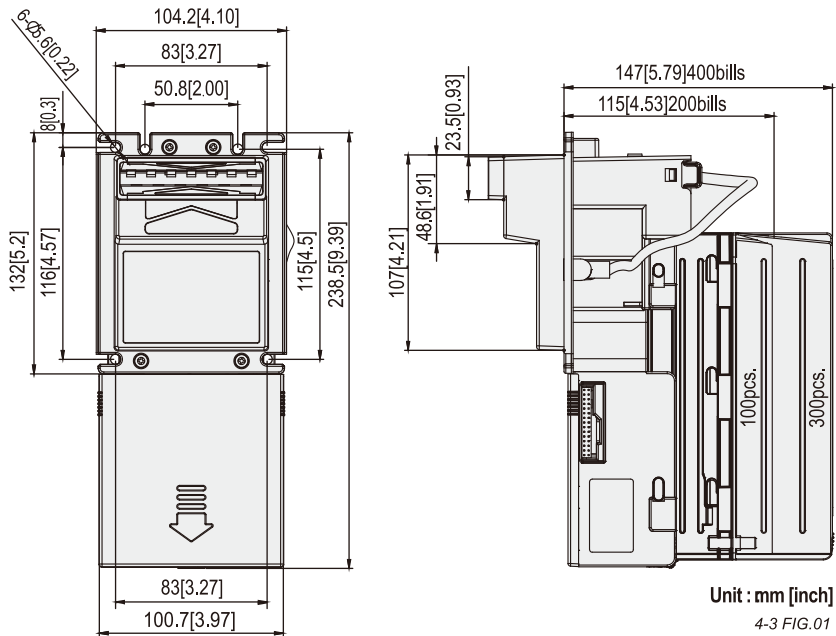
4-2. RFID



Unit : mm [inch]

4-2 FIG.01

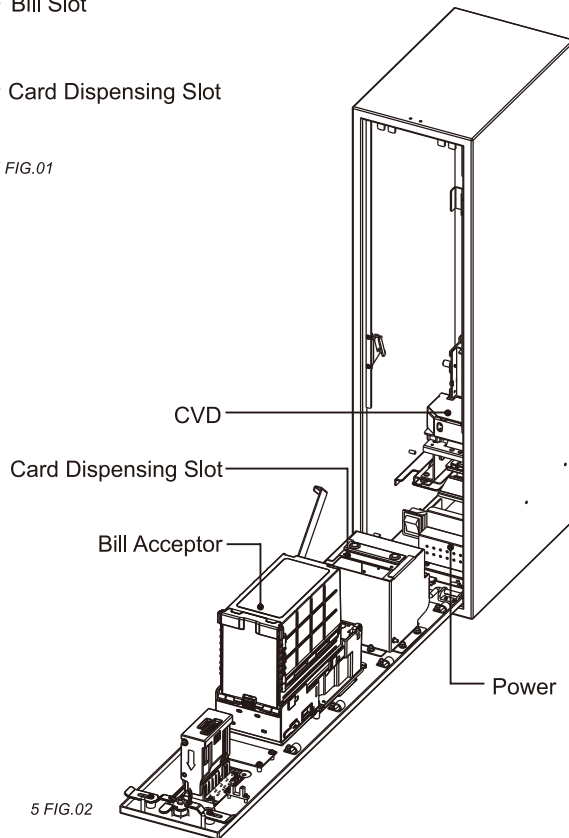
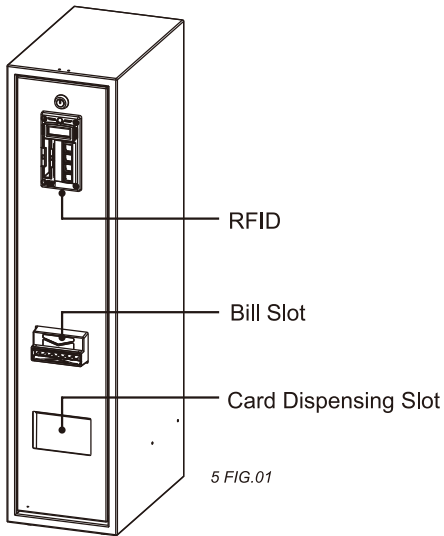
4-3. Bill Acceptor (XBA)



Unit : mm [inch]

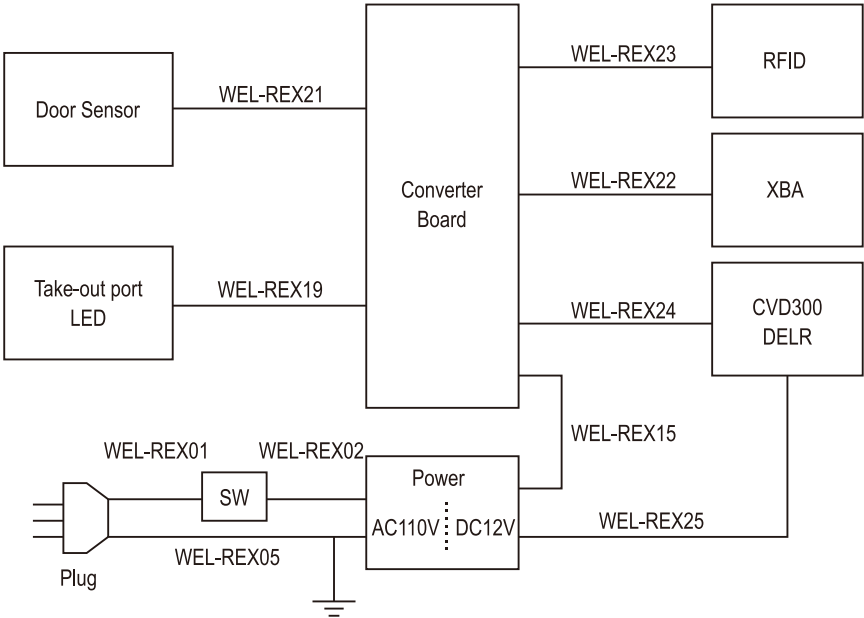
4-3 FIG.01

5. Component names



6. Installation

6-1. Connection



6-2. DIP Switch Setting

6-2-1. Bill Acceptor(XBA)

Fuction	SW6	SW7	SW8
EX-RFID	OFF	OFF	ON

6-2-1 TABLE 01

6-2-2. CVD (Software Version : CVEDLS0010I0010#####)

The DIP switches are located at the BACK of CVD.

(1). Retry Times Setting:

Retry Times	SW1	SW2
1	OFF	OFF
2	ON	OFF
4	OFF	ON
★ 8	ON	ON

(★) Default.

6-2-2 TABLE 01

(2). Interface Setting:

Interface	SW3	SW4
★ RS232	ON	OFF

(★) Default.

6-2-2 TABLE 02

(3). Card Dispenser Signal Setting:

Signal	SW5
★ Normal Low (Active High)	OFF
Normal High (Active Low)	ON

(★) Default.

6-2-2 TABLE 03

(4). RS232 ID Setting:

RS232 ID	SW6	SW7
★ No.1 CVD Setting	OFF	OFF

(★) Default.

6-2-2 TABLE 04

6-2-3. RFID (Software Version: RFID#F1006I0008##001(C2E5))

The DIP switches are located at the BACK of RFID.

Fuction	SW1	SW2	SW3	SW4
RS232	OFF	OFF	ON	OFF

6-2-3 TABLE 01

6-3. Software Download and Upgrade

6-3-1. Bill Acceptor Download

Base on different currency of currencies, please install the different firmware for your currency.

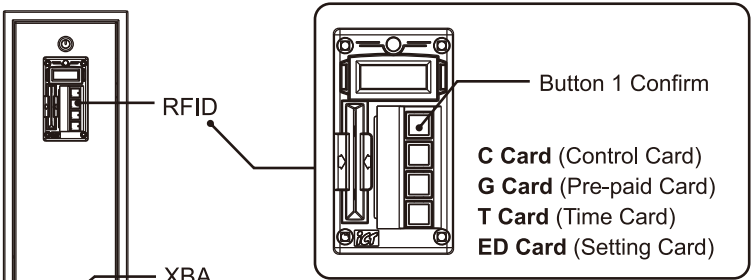
6-3-2. CVD Download

Please refer to the service manual.

6-3-3. RFID Download

Please refer to the service manual.

6-4. Quick Start for Use EX-1750(Top Up Mach.)



6-4 FIG.01-1

Accept currency (SGD)

Currency	2	5	10	50
Promotion	0	0	1	0
Purchase Card	None	None	Yes	None

6-4 FIG.01

6-4 TABLE 01

6-4-1. RFID Pre-paid Procedure

Step 1. System power on, when the screen show up following information (Idle mode), system can be transacted.

Insert
Bill or Card

Step 2. Insert card.

Step 3. Insert card and display credit.

Credit xxx

Step 4. Display.

Insert Bill

Step 5. Insert Bill.

Step 6. Display

Input SGD \$10
OK⇒Top up

SGD: Country abbreviated it will change if any.

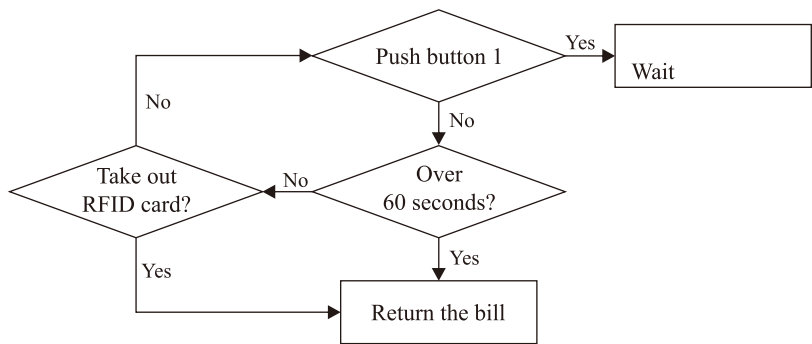
Button 1 flush

Exception:

If the card credit over upper limitation (this value can be set by C card) the display will show up Card over limit, and return the bill.

Card over limit

Step 7. Push button display



Step 8. At the time, BA (XBA) will active stacking procedure.

Stop service

Exception:
If the bill jam, the display will show up
“**Stop service**”, and system will be held.

Step 9. When stack bill completed, system will sound on “Bi-Bi”, It means pre-paid successful.

Step 10. Pre-paid successful display will show up following message, then user can be take out RFID card, this transaction finished.

Input SGD \$10
Top Up: SGD\$11

Note: \$1 is promotion, it can be set up by ED card.

Step 11. Transaction record shown in display 5 seconds, system will return to stand by mode.

Stop Service

If XBA has exception issue or RFID NG display will show up “**Stop Service**”

6-4-2. Purchase card procedure

Note: the currency can be set up by ED card

Step 1. Idle mode, display show up in below:

Insert Bill or Card

Step 2. Insert money

Step 3. Display

Input SGD \$10 OK⇒Card

Purchase amount up to ED card,
This message only for reference.

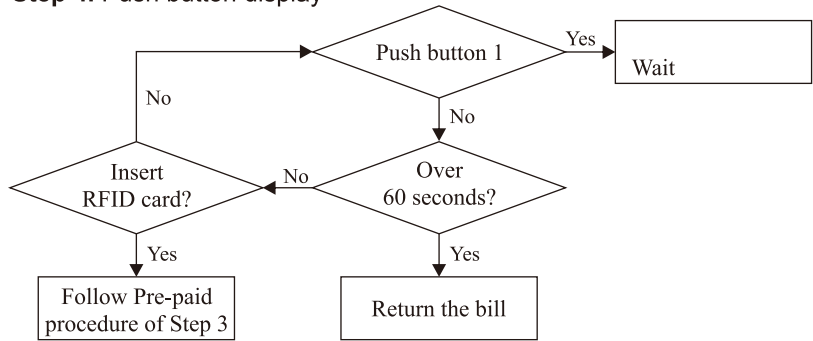
Button flush

Input SGD \$10 Insert Card

Exception:

if out of card or CVD system wrong, the display will show up, in below, user can be follow the Pre-paid procedure of step 2.

Step 4. Push button display



Step 5. At present, the BA (XBA) will stack bill..

Stop service

Exception:
If bill jam, it will show up “**Stop service**” system on hold.

Step 6. If stack bill finished, Card dispenser will dispense RFID card and the LED shine in white (sustain in 30 sec)

Step 7. Then display will show up following massage.

Input SGD \$10
Dispense 1 Card

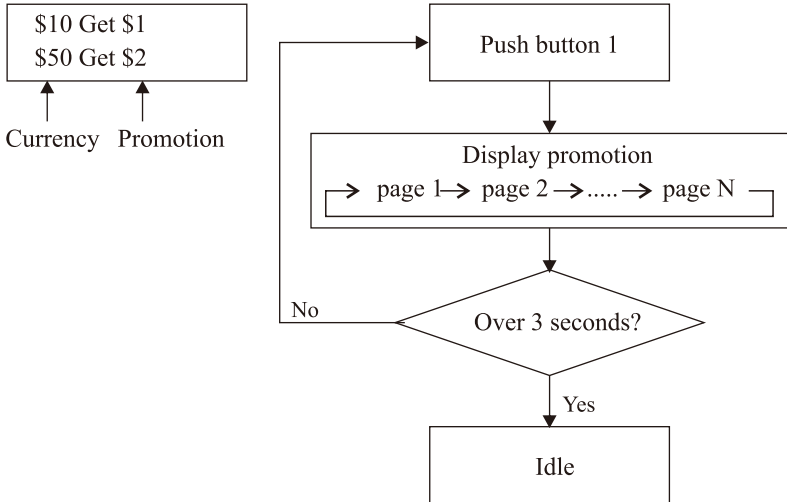
Step 8. The transaction record show up 5 seconds, it will return to stand by mode.

Stop service

If XBA has exception issue or RFID NG, the display will show up “**Stop service**”

6-4-3. Others operation

1. Display Promotion



2. If open the door, display will show up **“Stop service”** and terminate all of process.

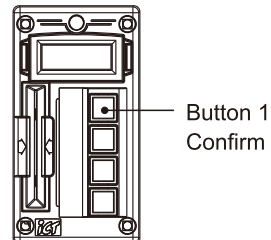
Stop service

3. Reload ED card setting.

3.1. Insert ED card.

3.2. Press **button 2**.

3.3. Then press **button 1**.



RFID CA Type
6-4-3 FIG.01

3.4. ED card set up done



3.5. Take out ED

3.6. The display show up “**Wait**”, it means the BA (XBA) is reading the new setting.

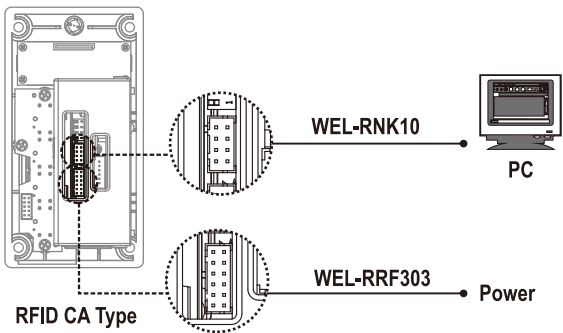


3.7. It return to stand by mode, it means reading complete.

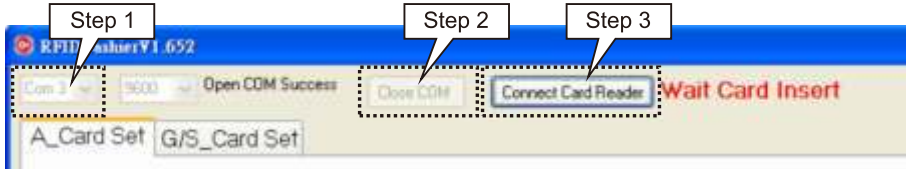


6-4-4. Setting ED Card

- 1. Turn the RFID DIP switch 3 to OFF position, and connect with PC.

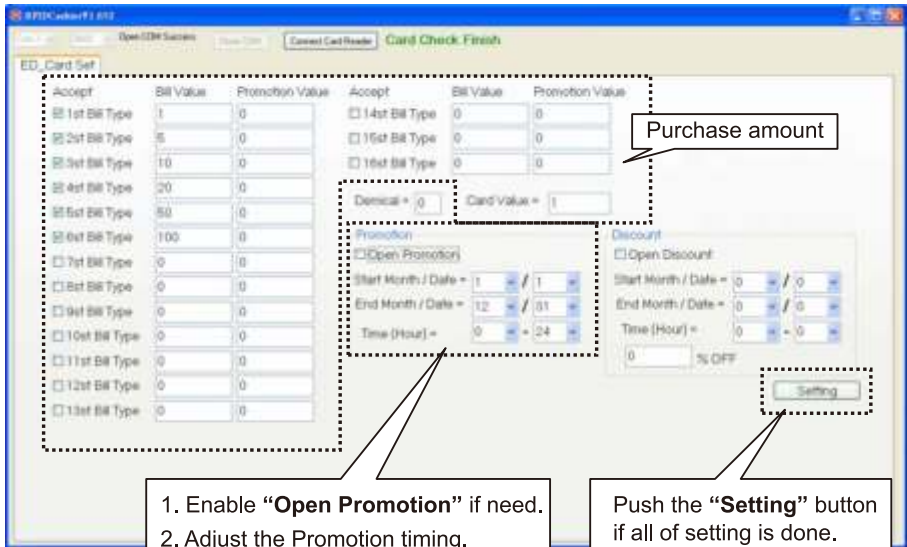


2. Execute RFID Cashier. (password: 1234)



6-4-4 FIG.01

3. Insert the ED card.

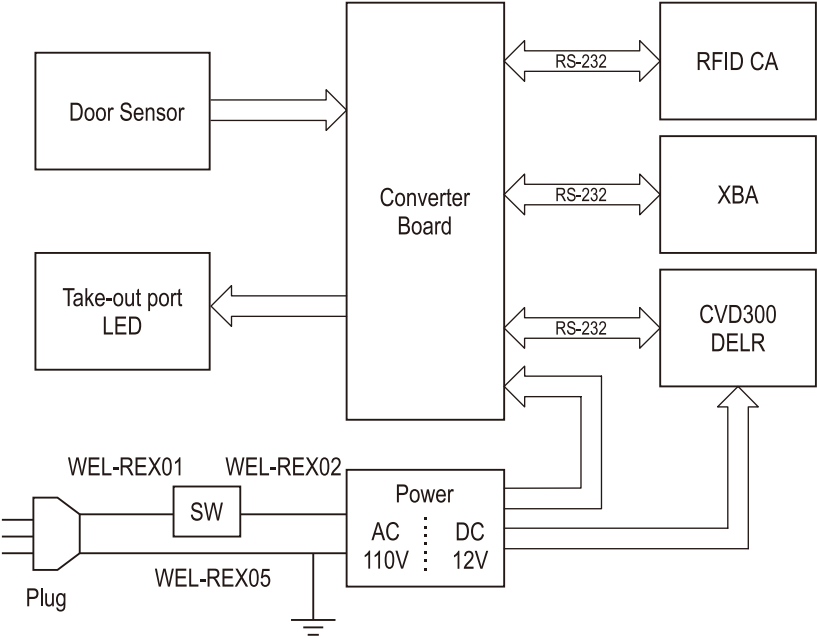


1. Enable "Open Promotion" if need.
2. Adjust the Promotion timing.

Push the "Setting" button if all of setting is done.

6-4-4 FIG.02

6-5. Hardware Functional Diagram



7. Maintenance

To make sure the money changer always works smoothly. We suggest you to clean the internal parts of Bill Acceptor, CVD and RFID regularly.

7-1. Bill Acceptor

Please refer to bill Acceptor Installation Guide in the package for more detail.

7-2. Card Vending Dispenser(CVD)

Please refer to Card Vending Dispenser Installation Guide in the package for more detail.

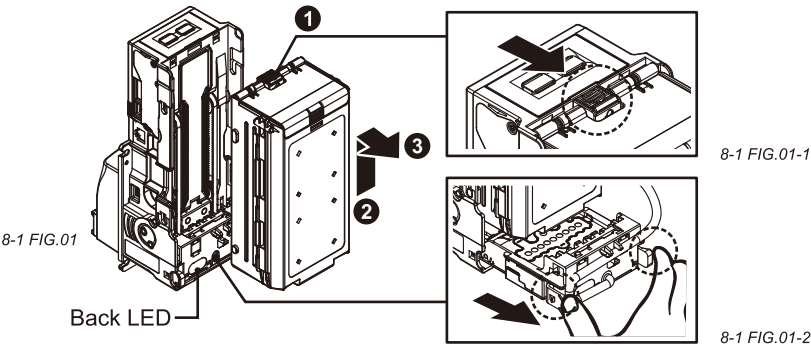
	Maintenance Notice (Any improper maintenance will invalidate the warranty.)	
	Recommended	Mild, non-abrasive, soap water.
	DO NOT USE	Organic solvent , Alcohol, Volatile liquid.

8. Troubleshooting

8-1. Bill Acceptor(XBA)

8-1 TABLE 01

LED Flashes	Status	Corrective Actions
RED		
1	White Card Calibration	Please calibrate with ICT white calibration card.
1	Bill jammed.	Remove the bill box by sliding the top button and the bill path(as 8-1 FIG.01) , and then remove the jammed bill.
2	Disable.	Inspect the right DIP switch setting.
3	Recognition sensor module error.	Inspect the foreign objects on sensor or bill path and clean.
3+1	IR error.	Inspect the foreign objects on sensor or bill path and clean.
3+2	Hook sensor error.	Inspect the foreign objects on security hook and clean.
4	Anti-string sensor error or a stringing attempt has detected.	Inspect the foreign objects on sensor or bill path and clean.
5	Bill box has been removed.	Replace the bill box.
6	Stacker error or stacker full.	Empty the bill box.
7	Motor error.	Inspect the foreign objects on bill path and clean.



If the errors can not be solved after corrective actions or happen again, please contact ICT for technical support.
Note: please refer to XBA series installation guide.

8-2. Card Vending Dispenser(CVD)

8-2 TABLE 01

Status	Corrective Actions
Card Dispensing Error	1. Check if there is any error signals or empty signal. 2. Check if there is any foreign objects block dispensing slot.
Continue Dispensing Cards after Power Applied (Hopper Mode)	1. Make sure DIP Switch settings are correct. 2. Check if dispensing signal is normal.
Card Preparing Error	Re-adjust thickness of card.



If the errors can not be solved after corrective actions or happen again, please contact ICT for technical support.

Note: please refer to CVD Series installation guide.



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