



Bill Acceptor

BS7

Installation Guide



International Currency Technologies Corp.

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1. Introduction

1-1. Overview

BS7 is a bill acceptor which features not only high-security module with bill box but also outstanding recognition, acceptance rate up to 96% or even greater.

1-2. Features

- High Acceptance Rate up to 96%.
- Four way bill insertion acceptance.
- Numerous interfaces available.
- Easily Install & Maintain.

2. Specifications

General

Acceptance Rate 96% or greater

Note: The incomplete bills such as extremely dirty, wet, broken or wrinkled ones are excluded.

Bill Insertion Four-way acceptance

Transaction Speed Approx. 3 seconds to stack

Interface Pulse
MDB
Parallel A3
ICT Protocol

Electrical

Power Source	12V DC (11.4~12.6V DC) 24V AC (21.6~26.4V AC) 24V/34V DC (20V~42.5V DC)
Power Consumption	12V DC Standby : 0.3A, 4W Operation: 0.8A, 10W Maximum: 2.5A, 30W 24V AC Standby : 0.2A, 5W Operation: 0.5A, 12W Maximum: 1.5A, 36W 24V/34V DC Standby : 0.15A, 6W Operation: 0.4A, 14W Maximum: 1.35A, 46W
Operation Environment	Operation Temperature: 0°C~55°C Storage Temperature: -30°C~70°C Humidity: 30%~85RH(no condensation)

Mechanical

Bill Capacity	Approx. 400 bills (350~450)
Weight	Approx. 1.25kg
Outline Dimension	Refer to page.4

**Installation: Indoor use only!!**

3. Packing List

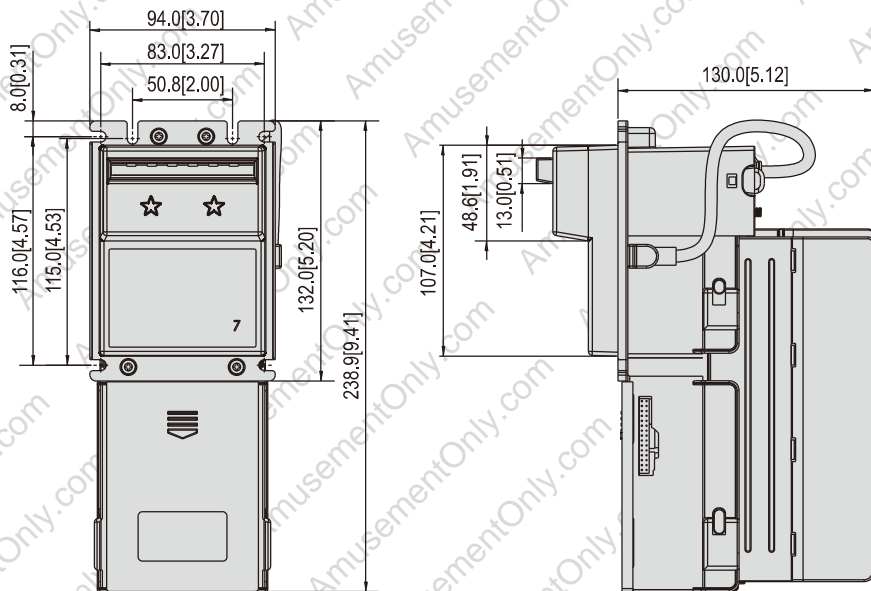
Main

Bill Acceptor

Accessory

Harnesses: Refer to 5-1
BS7 Installation Guide
BS7 DIP Switch Setting Guide

4. Dimension



Unit : mm [inch]

4 FIG.01

5. Installation

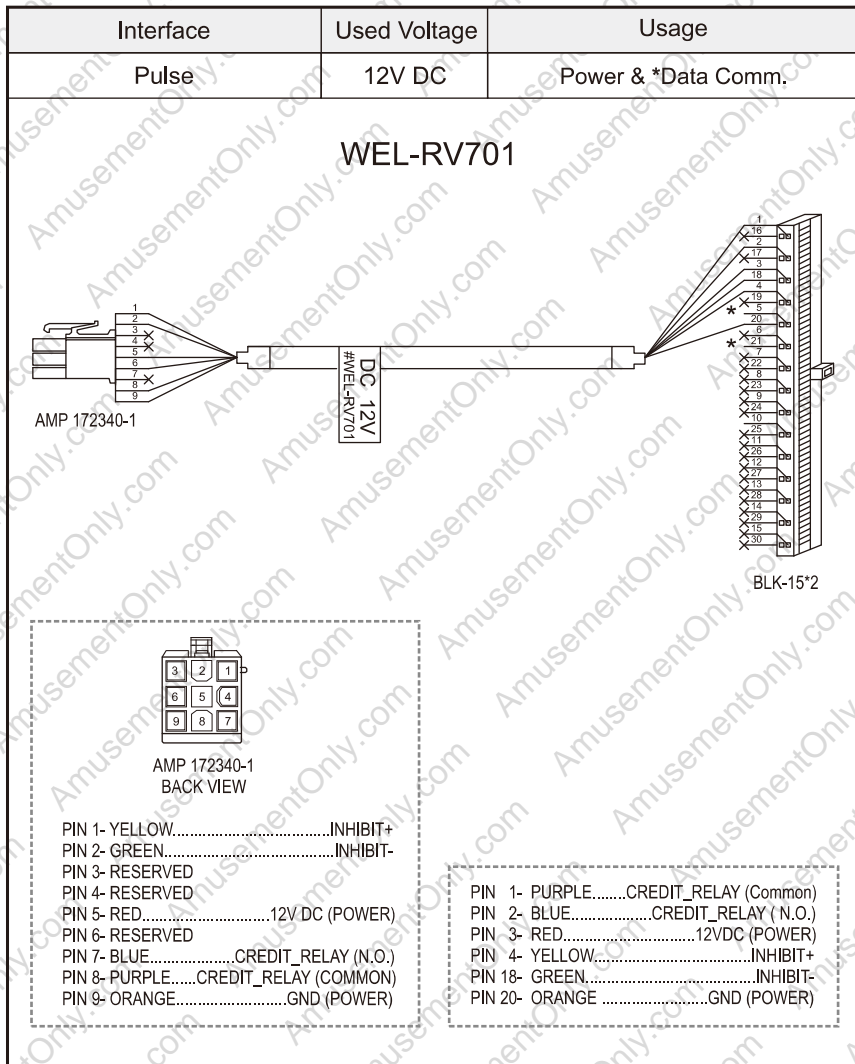
5-1. Harness Application

5-1 TABLE 01

Interface	Used Voltage	Usage	Harness	Page
Standard Pulse	12V DC	Power & *Data Comm.	WEL-RV701	6
		Extension Wire	CU-R961-1	7
	24V AC	Power & *Data Comm.	WEL-RV703	8
		Extension Wire	WEL-RV702	9
MDB	24V/34V DC	Power & *Data Comm.	WEL-RM006	10
ICT Protocol (RS232)	12V DC	Power	WEL-RV701	6
		Extension Wire	CU-R961-1	7
		*Data Comm.	WEL-RV706-1 or 2-BA-RV706	11
Parallel A3	24V AC	Power & *Data Comm.	**5RBG-AA203L1-XX	12

*Data Comm.: Data Communication.

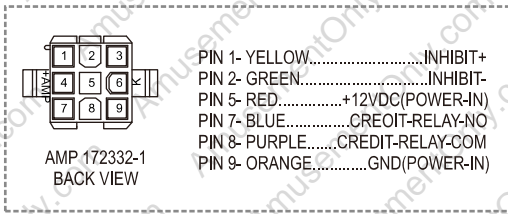
**5RBG-AA203L1-xx: Plug-in Box & Cables, "XX" varies from version to version.

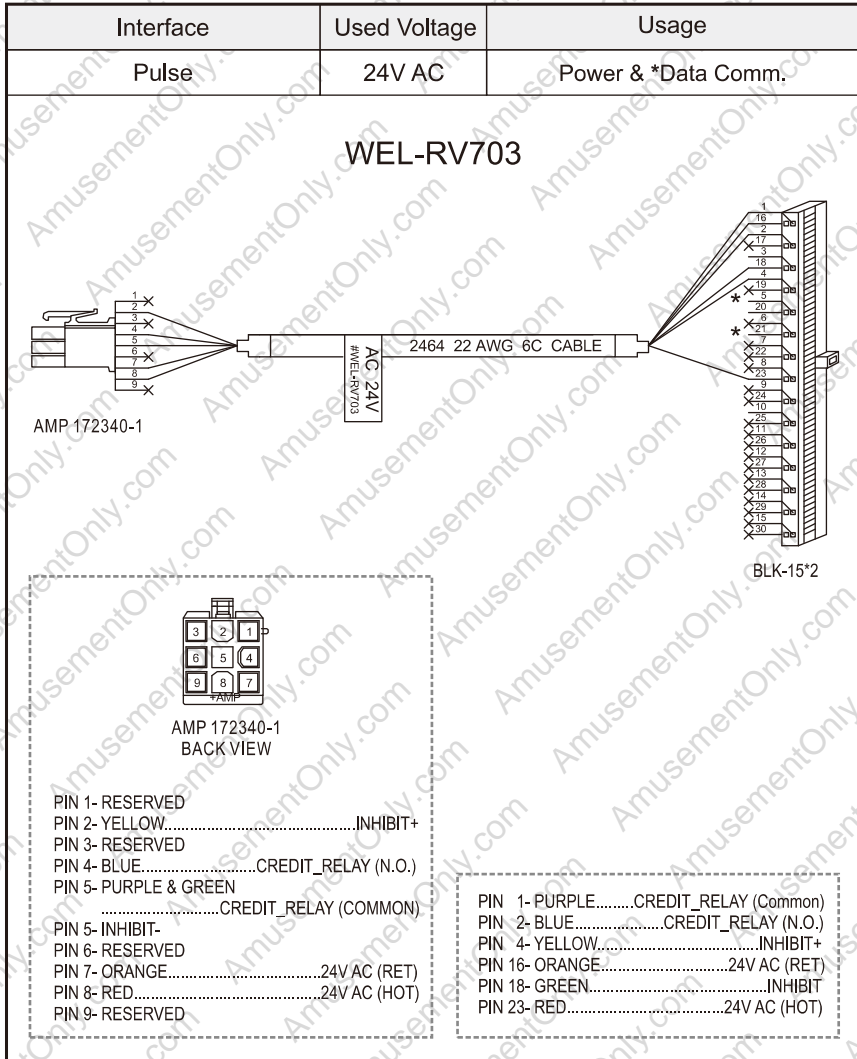


5-1 FIG. 02

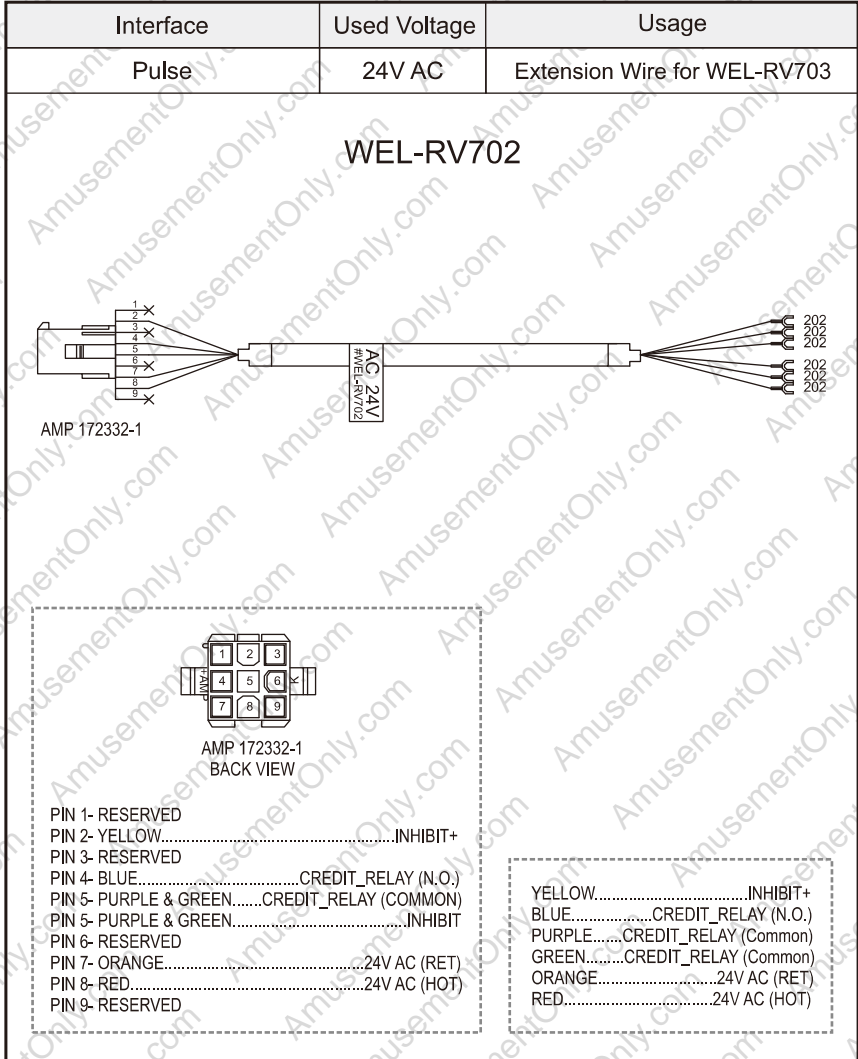
Interface	Used Voltage	Usage
Pulse	12V DC	Extension Wire for WEL-RV701
ICT Protocol (RS232)	12V DC	Extension Wire for WEL-RV701

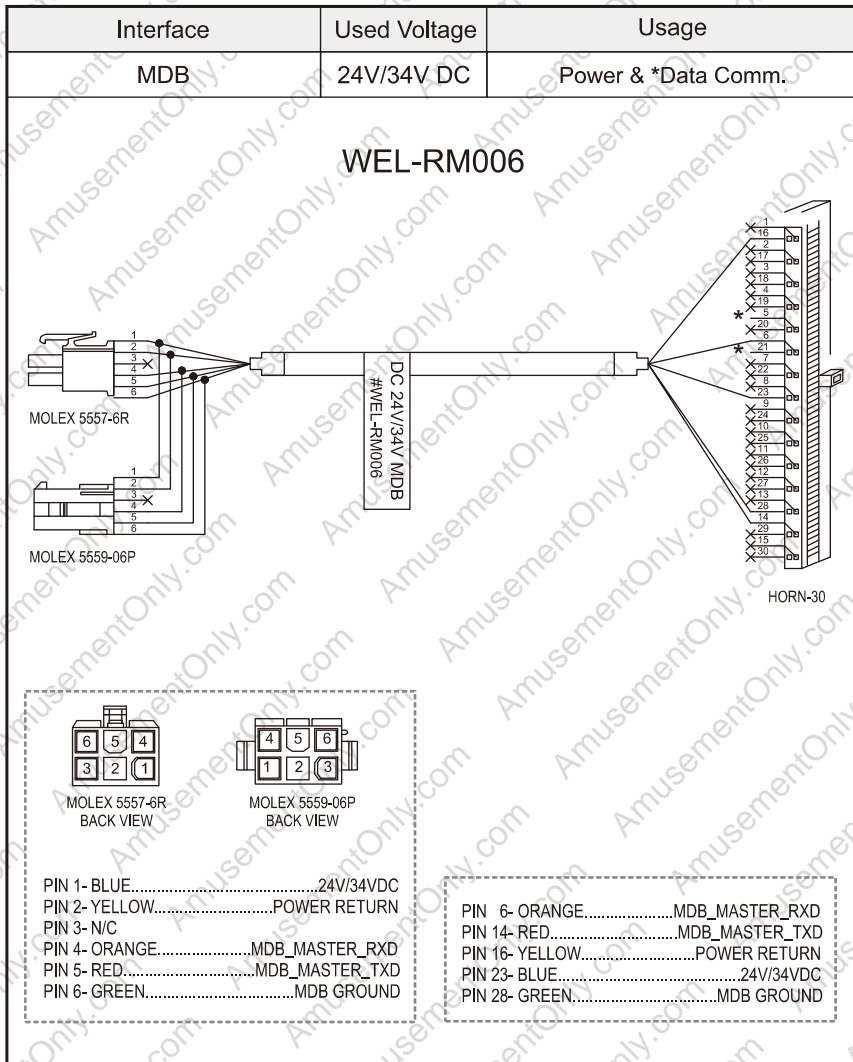
CU-R961-1



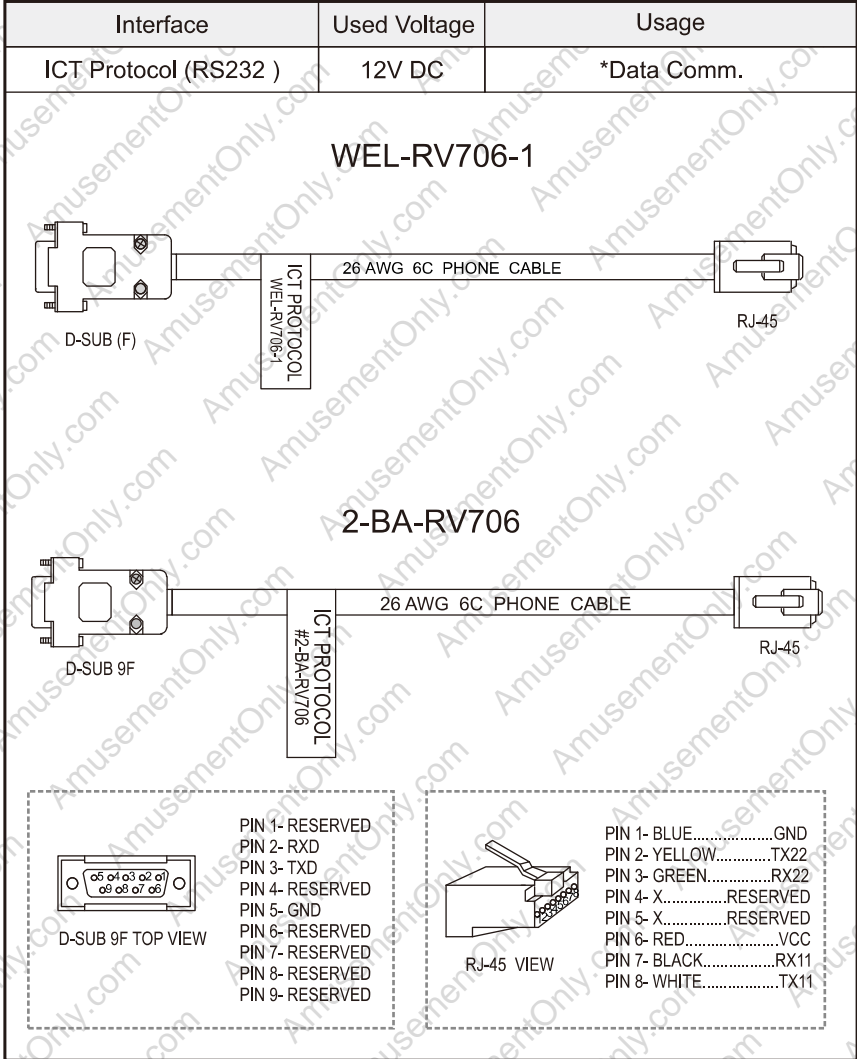


5-1 FIG. 04

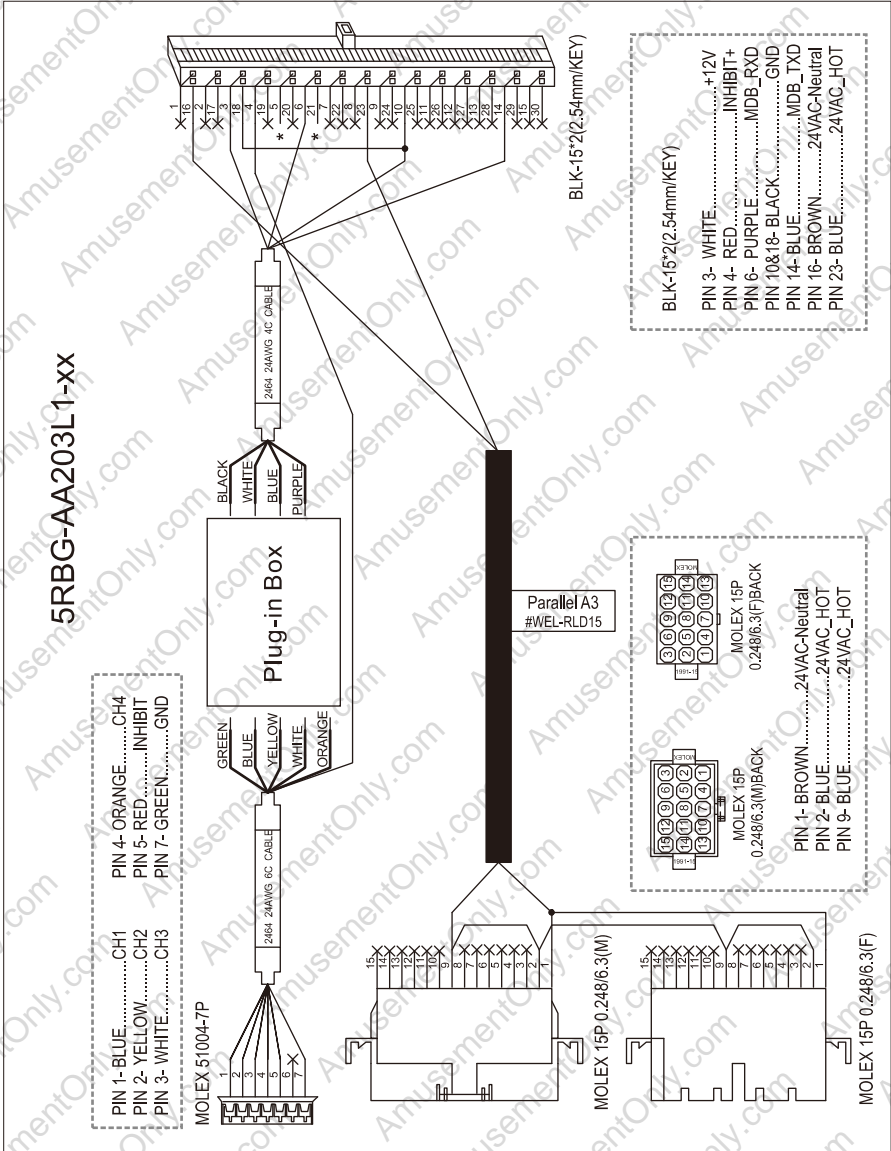




5-1 FIG. 06



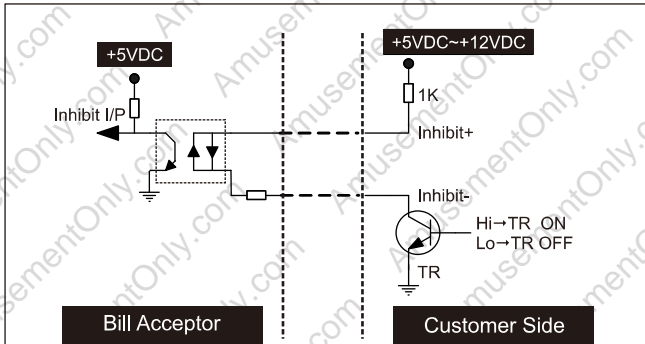
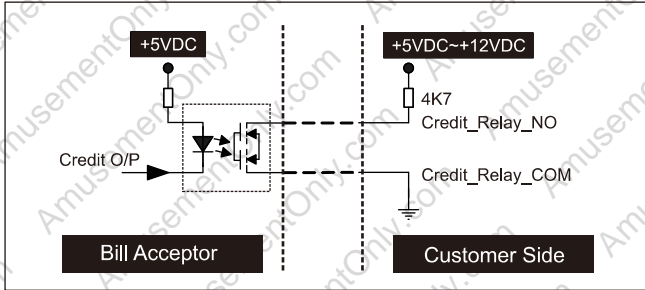
5-1 FIG. 07



5-1-1. I/O Circuit

Pulse Interface

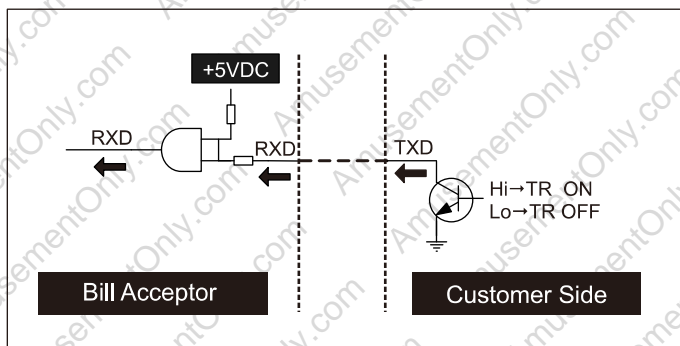
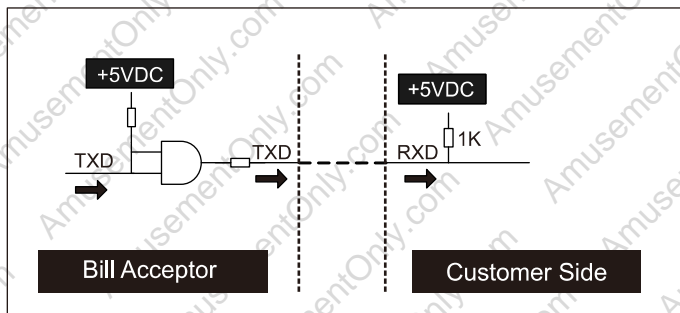
5-1-1 FIG. 01



BA Status	DIP SW Setting	Control Signal
Inhibit	Inhibit Active	Low
		High
Enable	Inhibit Active	Low
		High

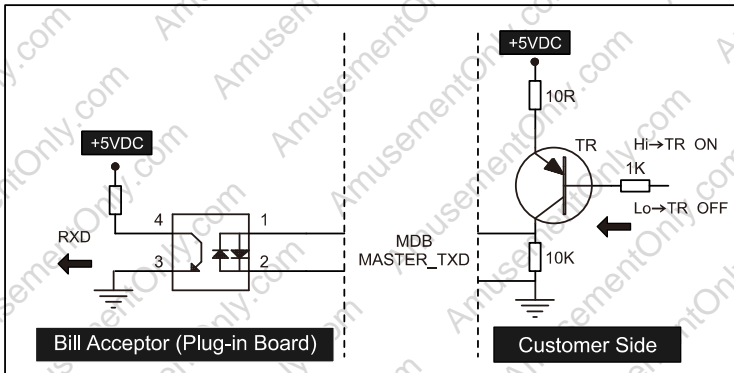
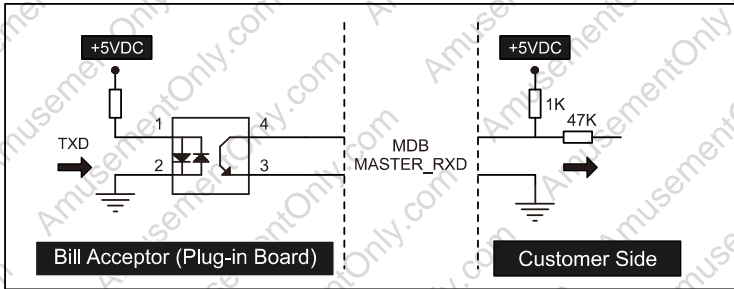
ICT-Protocol Interface.

5-1-1 FIG. 02



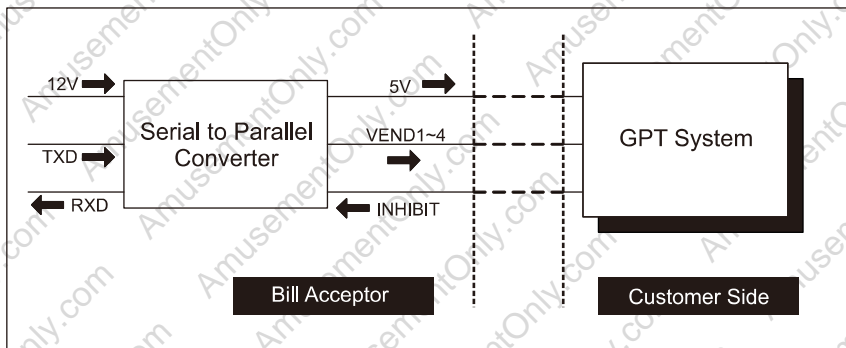
MDB Interface

5-1-1 FIG. 03



Parallel A3 Interface

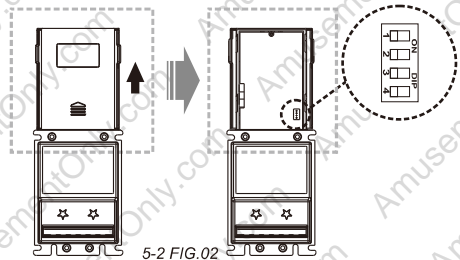
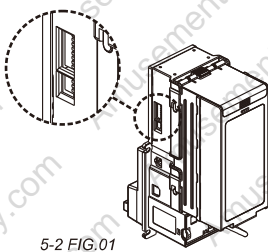
5-1-1 FIG. 04



5-2. DIP Switch Setting

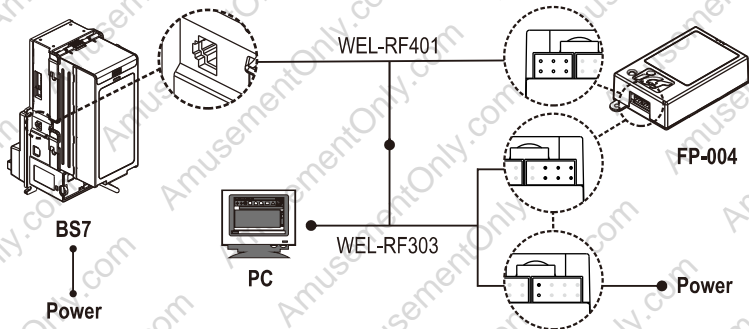
There are two serial DIP switches which are located on the side of BS7(as FIG.01). According to different currencies which are used by users, DIP switch settings could be varied to fit users' need. Besides, there's also a serial DIP switches on CPU board inside of BS7 for interface settings.(as FIG.02)

Please refer to "BS7 DIP Switch Setting" Guide in the package for more detail.



5-3. Software Download and Upgrade

To download and upgrade the software to BS7, the programmer(FP-004) is needed. Please contact ICT to purchase FP-004 and refer to FP-004 user guide for software download and upgrade information.



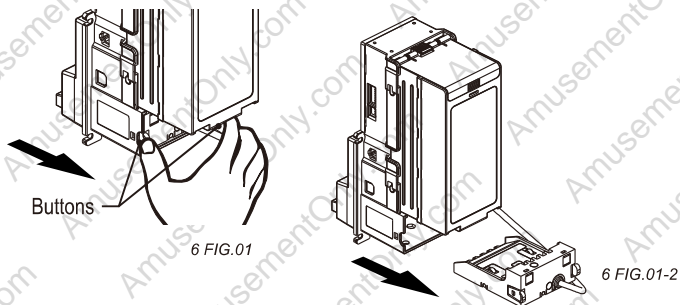
Power must be applied to Bill Acceptor **after** connecting.

6. Maintenance

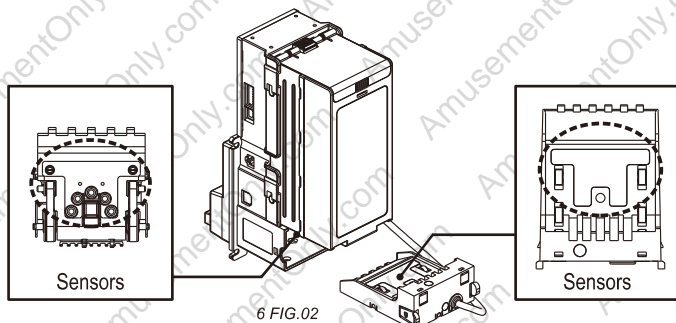
To make sure the bill acceptor always works smoothly, please clean the internal parts regularly.

To clean the internal parts:

1. Press the buttons on the sides of bill path unit and pull the unit out.



2. Use a soft, dry cloth or towel to clean the bill path and sensors.



Maintenance Notice

(Any improper maintenance will invalidate the warranty.)

Recommended

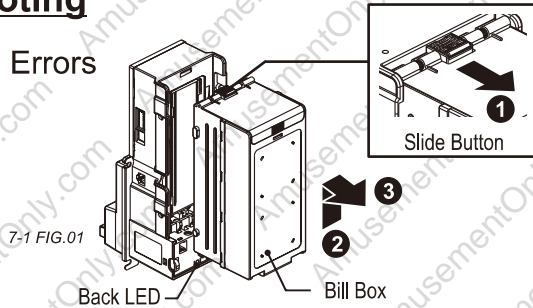
Mild, non-abrasive, soap water.

DO NOT USE

Organic solvent, Alcohol, Volatile liquid.

7. Troubleshooting

7-1. Back LED Errors



7-1 TABLE 01

LED	Status	Correct Actions
GREEN		
1	White Card Calibration.	Please calibrate with ICT white calibration card.

7-1 TABLE 01-1

LED Flashes	Status	Corrective Actions
GREEN		
1	Bill jammed.	Remove the bill box by sliding the top button and the bill path(as 7-1 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+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 error can not be solved after corrective actions or happen again, please contact ICT for technical support.

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