



Bill Acceptor

BS7

Installation Guide



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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

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

2. Specifications

General

Acceptance Rate	96% or greater
<i>Note: The incomplete bills such as extremely dirty, wet, broken or wrinkled ones are excluded.</i>	
Bill Insertion	Four-way acceptance
Transaction Speed	Approx. 3 seconds to stack
Interface	Pulse, ICT Protocol, MDB, GPT Parallel



Installation: Indoor use only!!

Electrical

Power Source	12V DC (11.4~12.6 V DC) 24V AC (21.6~26.4 V AC) 34V DC (20V~42.5 V DC)
Power Consumption	12V DC- Standby :0.41A, 5W Operation: 2A, 24W Maximum: 3A, 36W
Operation Environment	Operation Temperature: 0°C~55°C Storage Temperature: -30°C~70°C Humidity: 30%~85RH (no condensation)

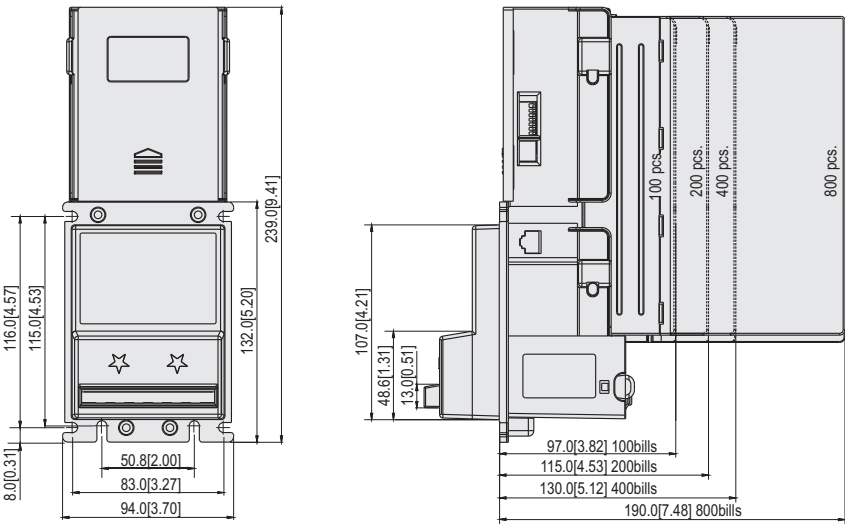
Mechanical

Outline Dimension	Refer to page.5
Bill Capacity	Approx. 100 bills (80~120) 200 bills (200~300) 400 bills (350~450) 800 bills (750~850)
Weight	Approx. 1.25kg

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]
(Figure.1)

5. Installation

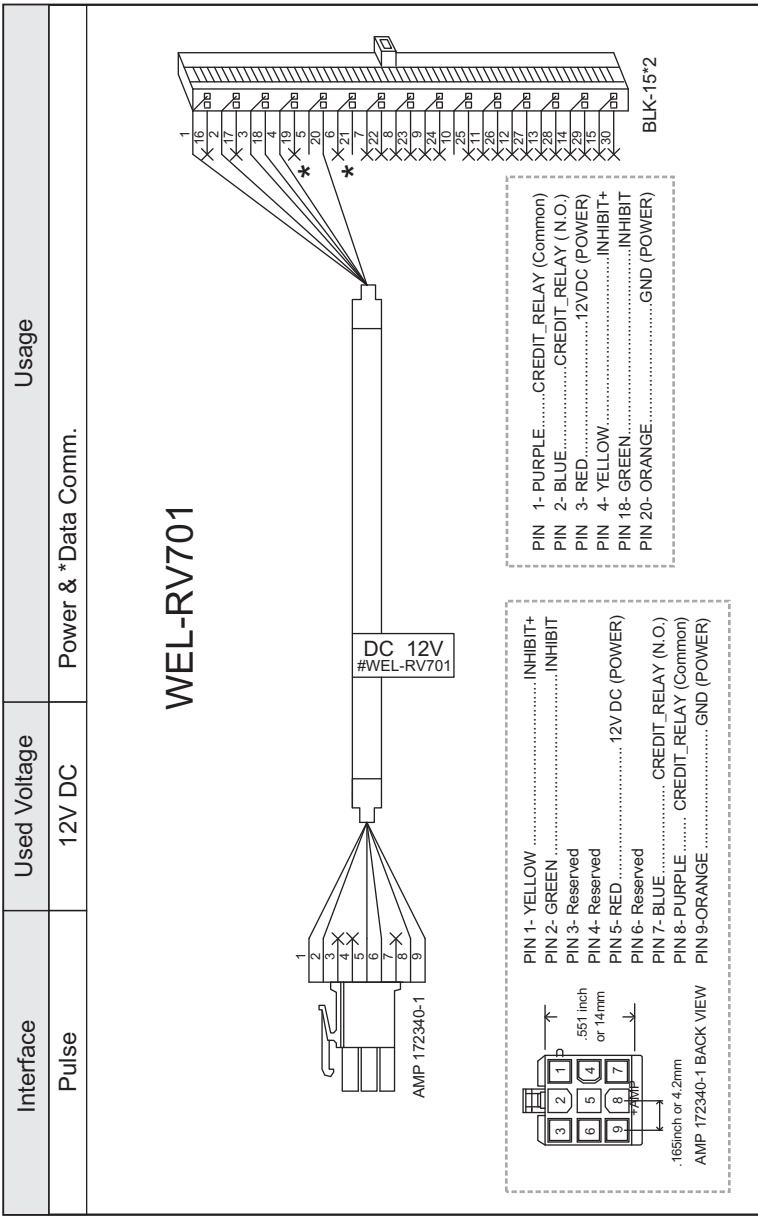
5-1. Harness Application

(Table 1)

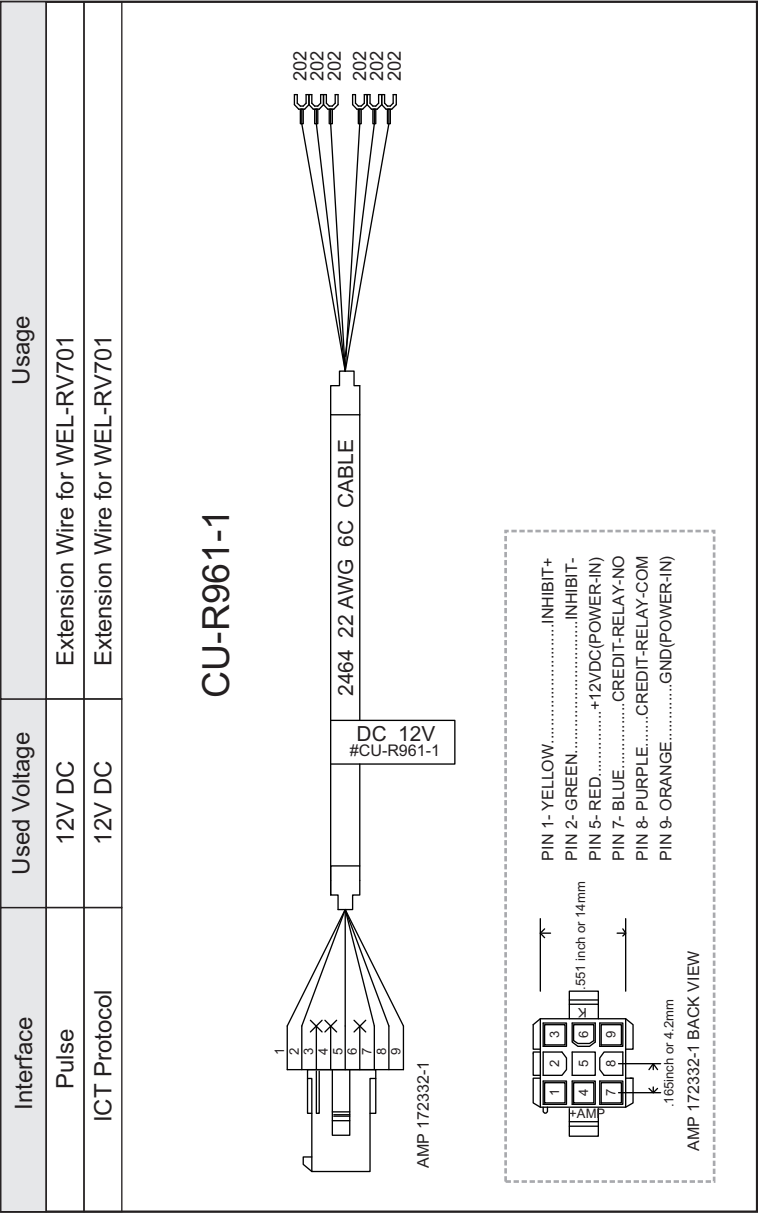
Interface	Used Voltage	Usage	Harness	Page
Standard Pulse	12V DC	Power & *Data Comm.	WEL-RV701	7
		Extension Wire	CU-R961-1	8
	24V AC	Power & *Data Comm.	WEL-RV703	9
		Extension Wire	WEL-RV702	10
MDB	34V DC	Power & *Data Comm.	WEL-RM006	11
ICT Protocol (RS232)	12V DC	Power	WEL-RV701	7
		Extension Wire	CU-R961-1	8
		*Data Comm.	WEL-RV706	11
GPT Parallel	24V AC	Power & *Data Comm.	**5RBG-AA203L1-XX	13

*Data Comm. : Data Communication.

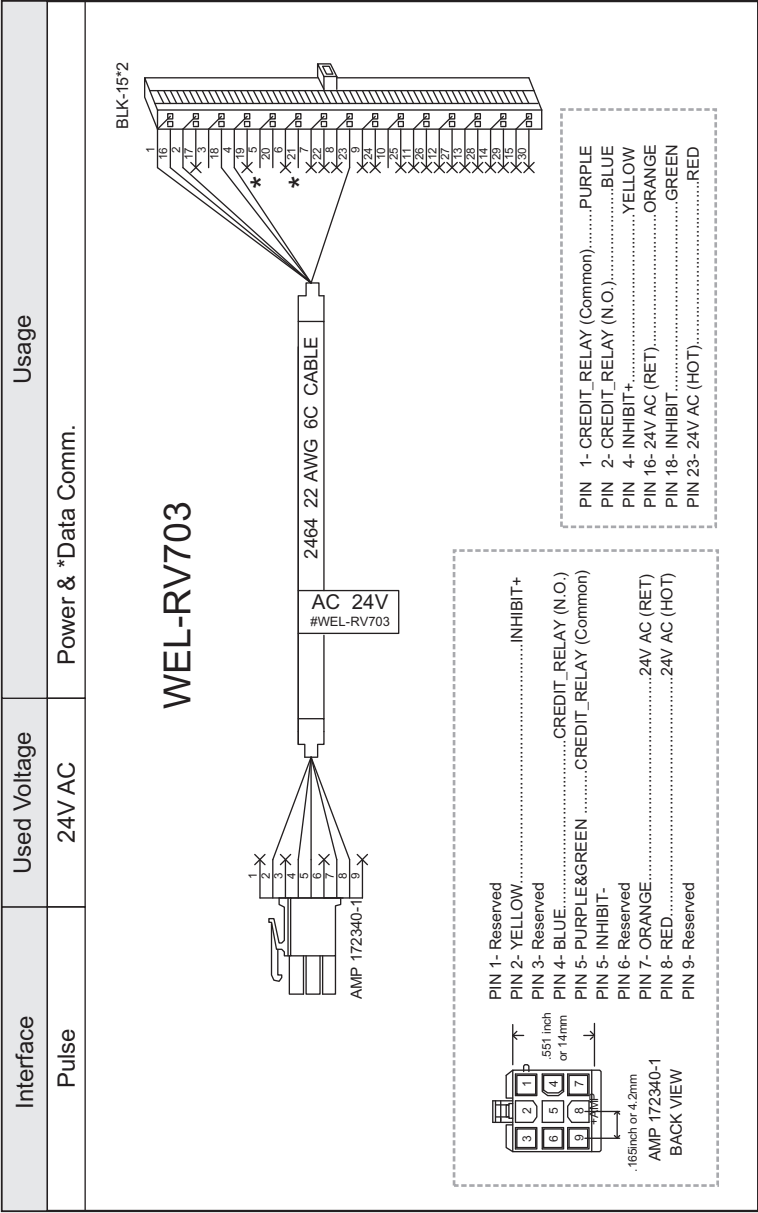
**5RBG-AA203L1-xx : Plug-in Box & Cables, “XX” varies from version to version.



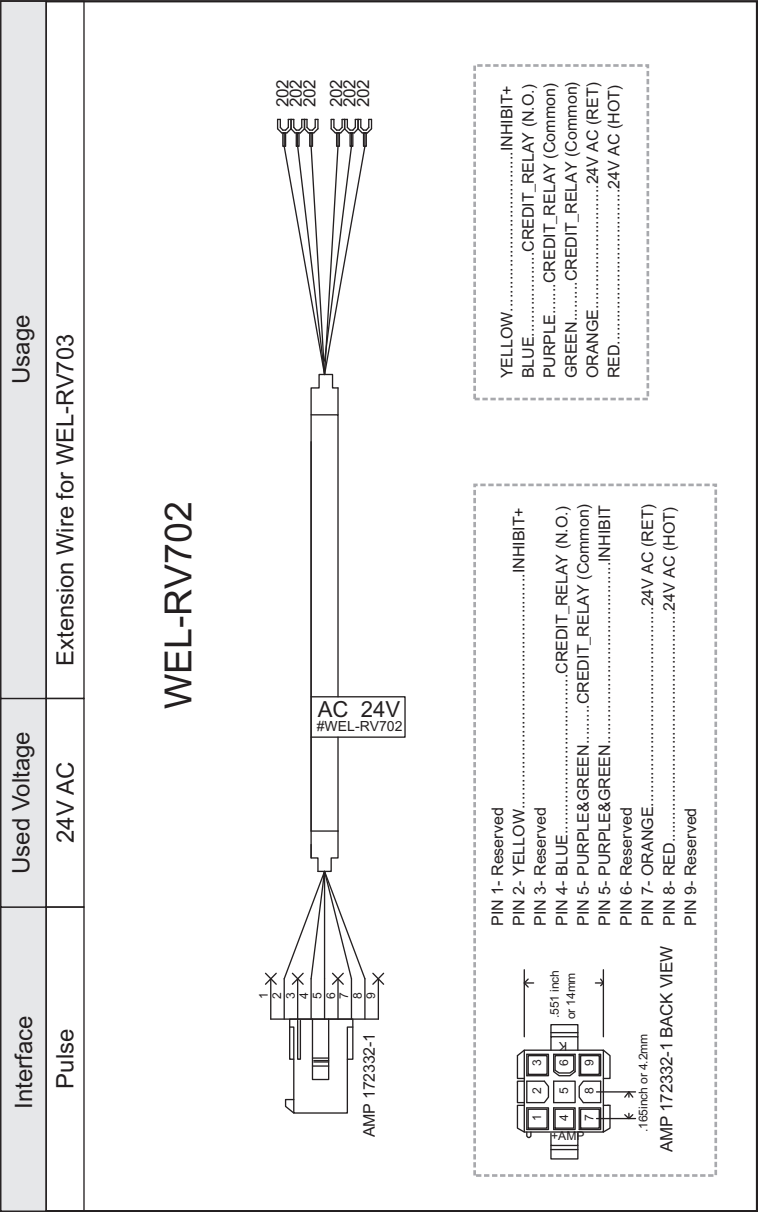
(Figure.2)



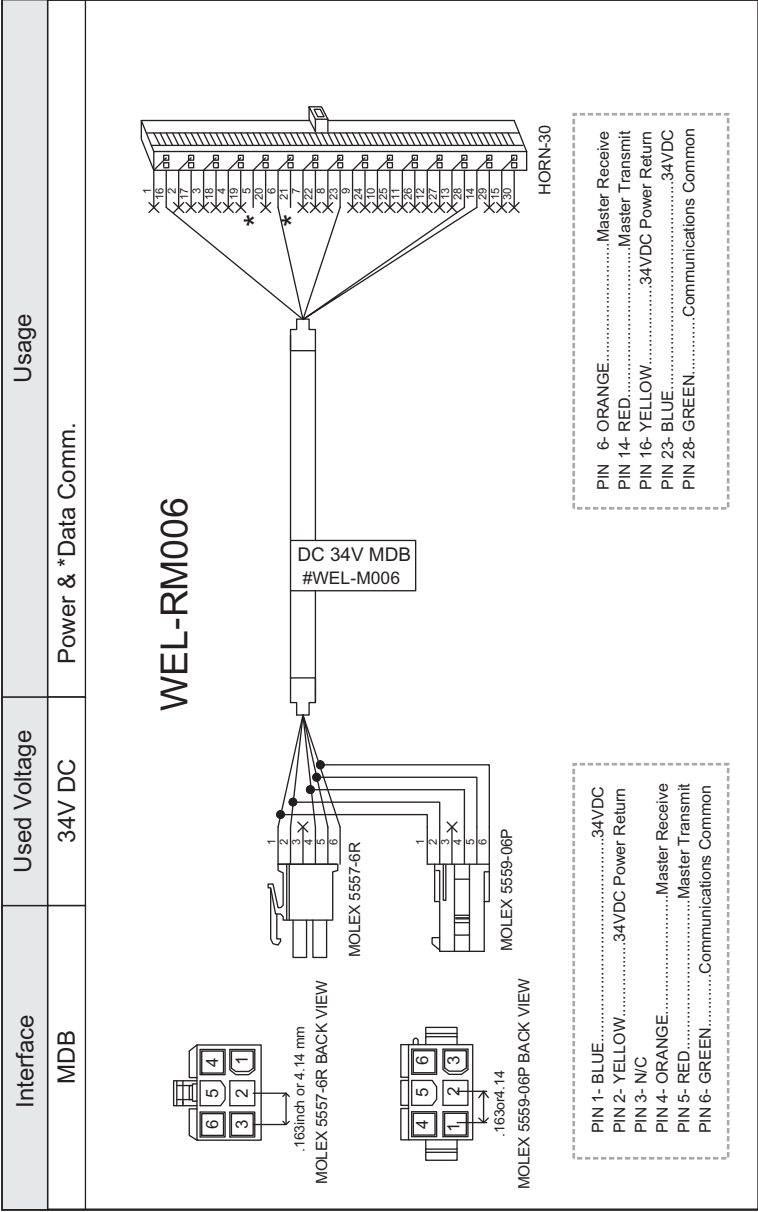
(Figure.3)



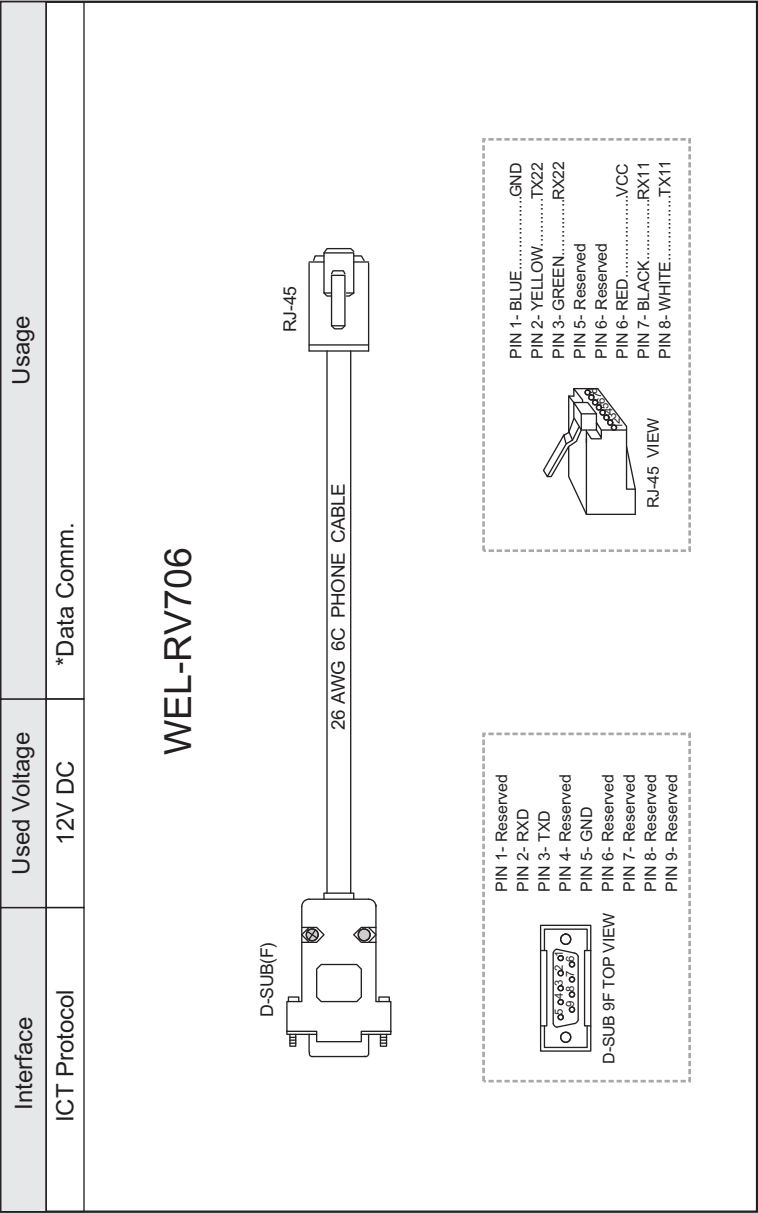
(Figure.4)



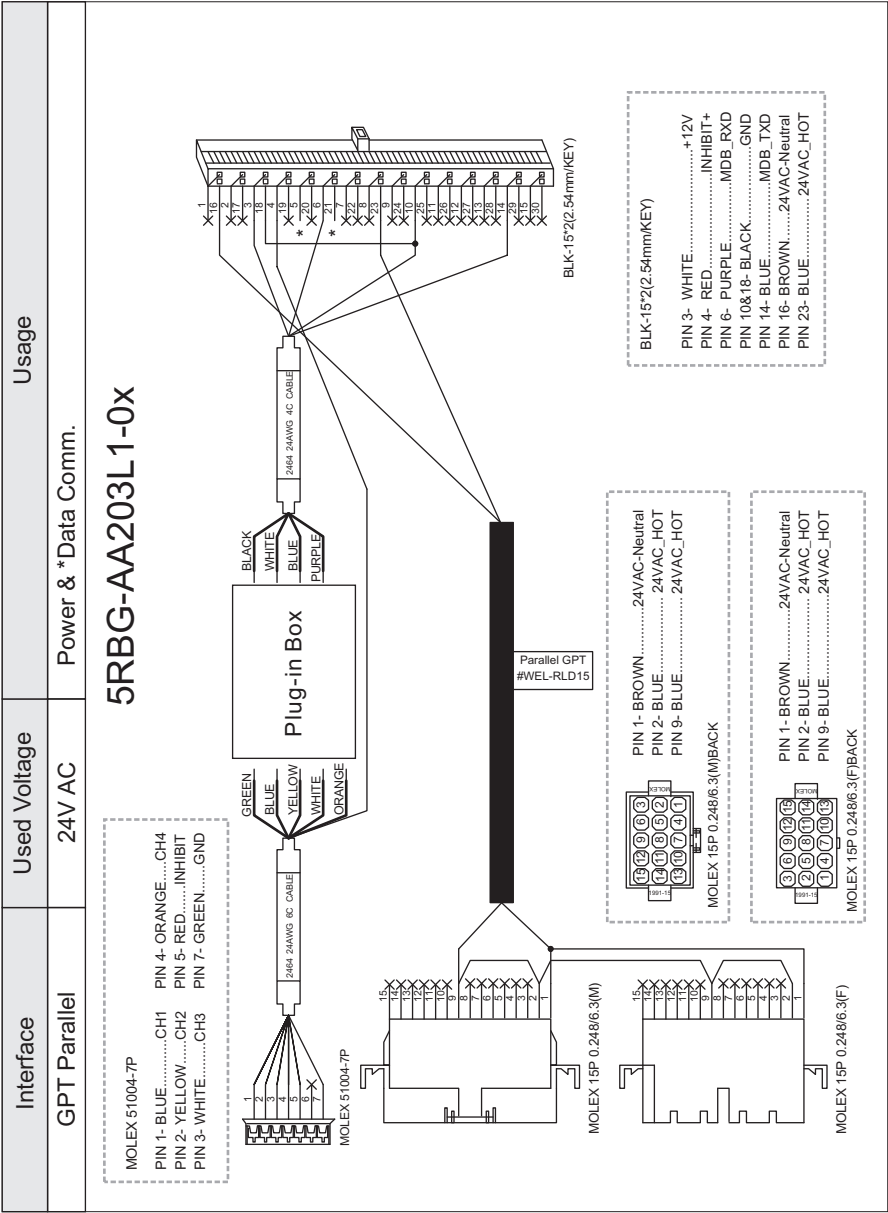
(Figure.5)



(Figure.6)



(Figure.7)

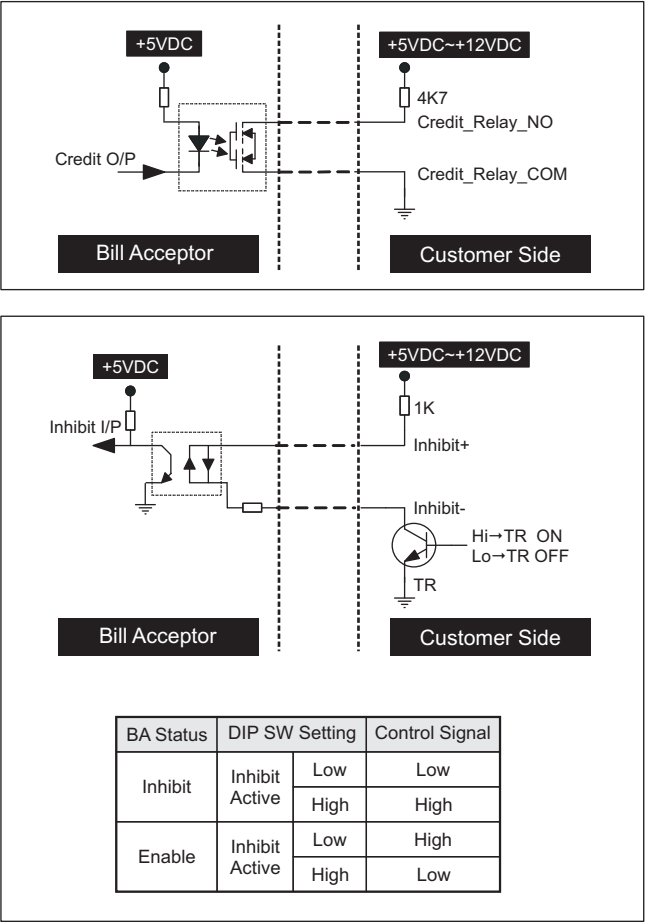


(Figure.8)

5-1-1. I/O Circuit

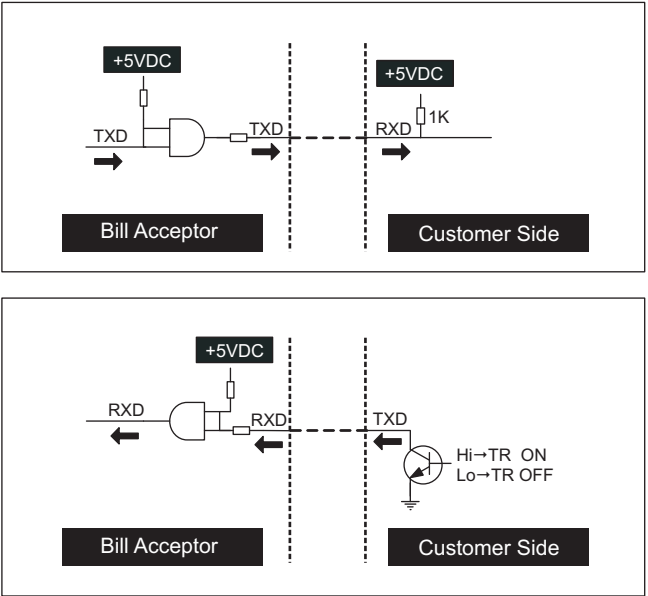
Pulse Interface.

(Figure.9)



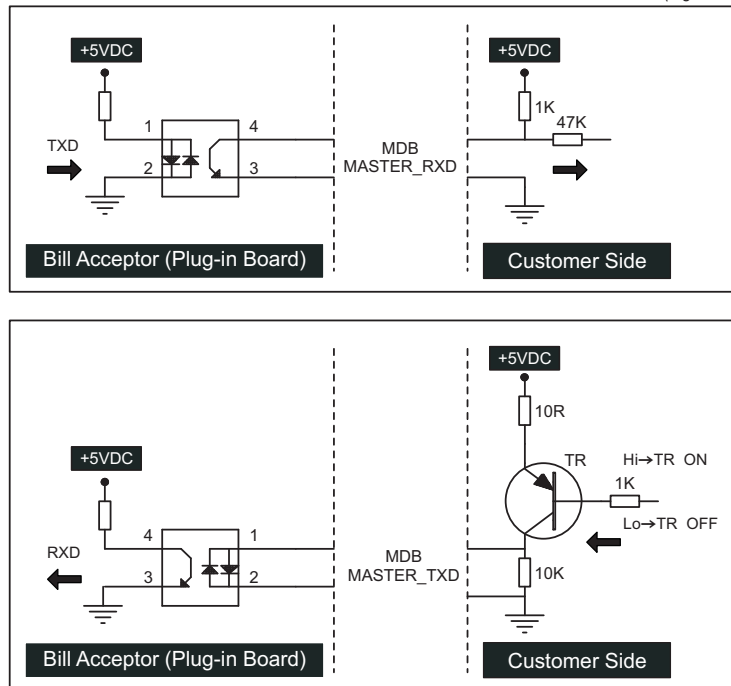
ICT-Protocol Interface.

(Figure.10)



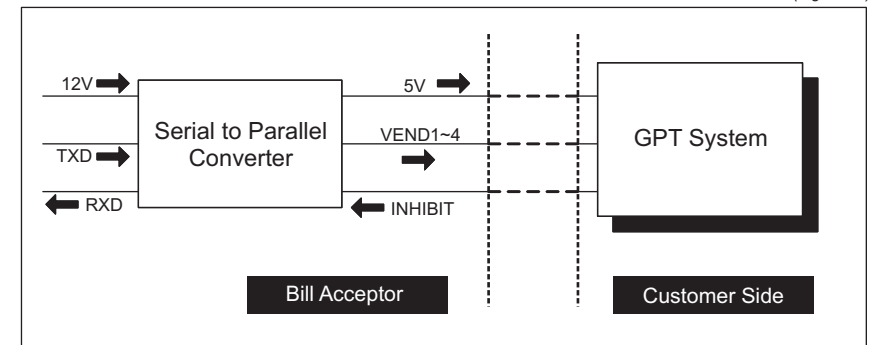
MDB Interface

(Figure.11)



GPT Parallel Interface

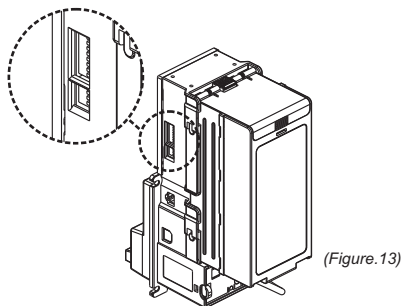
(Figure.12)



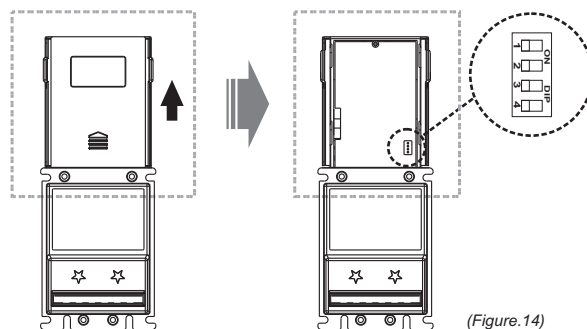
5-2. DIP Switch Setting

There are two serial DIP switches which are located on the side of BS7 (as figure 13). 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 figure 14)

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



(Figure.13)



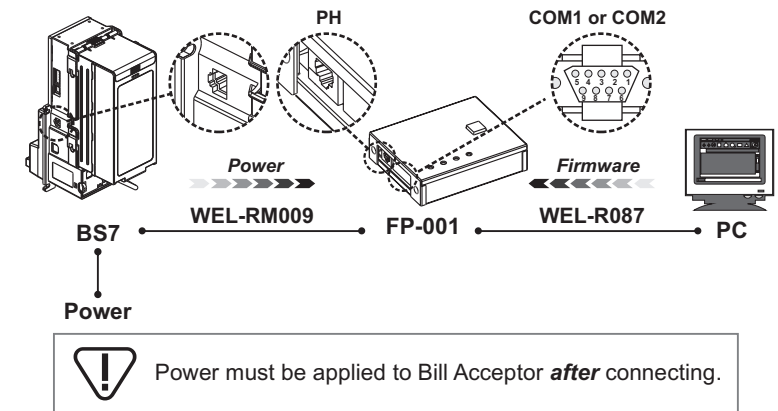
(Figure.14)

5-3. Software Download and Upgrade

To download and upgrade the software to BS7, the programmer (FP-001/ FP-004) is needed. Please contact ICT to purchase FP-001/ FP-004 and refer to FP-001/ FP-004 user guide for software download and upgrade information.

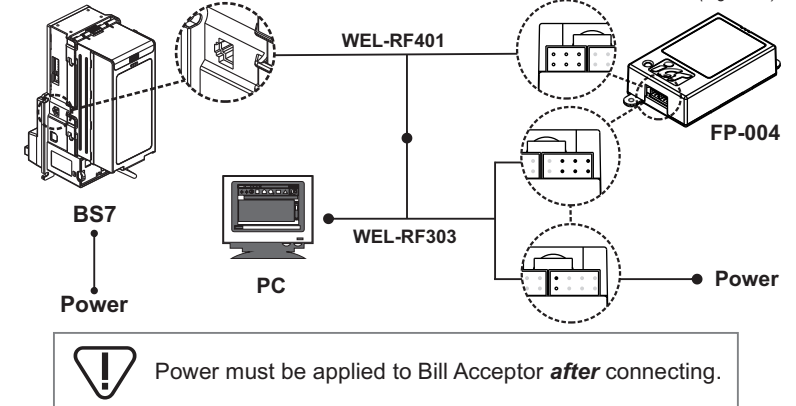
◆ FP-001

(Figure.15)



◆ FP-004

(Figure.16)

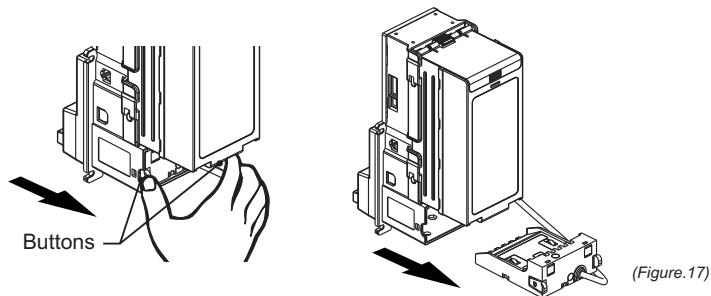


6. Maintenance

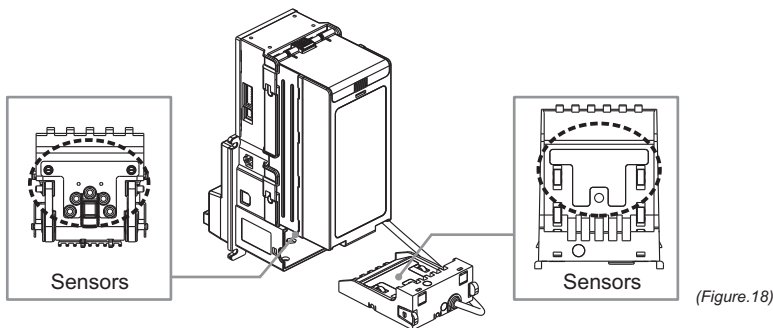
To make sure the bill acceptor always works smoothly, please clean the internal parts regularly.

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.

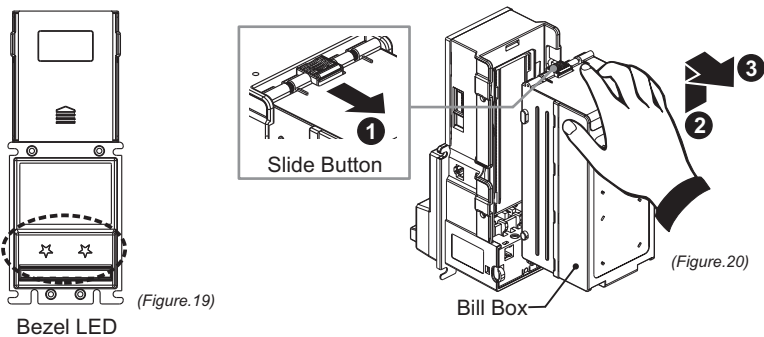




Maintenance Notice
(Any improper maintenance will invalidate the warranty.)

Recommended	Mild, non-abrasive, soap water.
DO NOT USE	Organic solvent , Alcohol, Volatile liquid.

7. Troubleshooting



(Table 2)

LED Flashes	Status	Corrective Actions
1	Bill jammed.	Remove the bill box by sliding the top button and the bill path unit (as figure 20), and then remove the jammed bill.
2	Disable	Inspect for right DIP switch setting.
3	Recognition sensor error.	Inspect for foreign objects on sensor or bill path and clean.
3+2	Hook sensor error.	Inspect for foreign objects on security hook and clean.
3+5 (Optional)	Magnetic Head error.	Inspect for foreign objects on Magnetic Head and clean.
4	Anti-string sensor error or a stringing attempt has detected.	Inspect for 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 for 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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