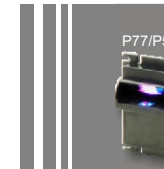




series  
Bill Acceptor  
Installation Guide



## Use of Materials Limitations

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## 1. Introduction

### 1-1. Overview

P series is a new generation of bill acceptor designed by ICT which features high-security with acceptance rate up to 96%. In addition, multiple bezel and bill box selections offer users the most convenient and complete services.

### 1-2. Features

- Four ways bill insertion acceptance.
- High acceptance rate.
- Multiple bezel selections.
- Stacker with capacity of 200 or 500 bills are available.
- High security by protective mechanism.

## 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 acceptable

**Transaction Time** Approx. 3 seconds to stack  
Approx. 2 seconds without stacking

**Interface** Pulse, ICT Protocol, ccTalk, ID003, MDB, GPT, IGT  
\*Combination is possible. Ex. Pulse+MDB.



**Installation: Indoor use only!!**

### Electrical

**Power Source** 12V DC (11.4~12.6V DC)

**Power Consumption** Standby: 0.21A~0.35A (2.5W~4.2W)  
Operation Current: 2A, 24W  
Motor Lock: 2.2A, 26.4W

**Operation Environment** Operation Temperature: 0°C~55°C  
Storage Temperature: -20°C~70°C  
Humidity: 30%~85%RH  
(no condensation)

**Mechanical****Outline Dimension**

P70/P5 : Refer to page. 5  
 P77/P2/P5: Refer to page. 6  
 P85/P5 : Refer to page. 8

**Bill Box Capacity**

P2: Approx. 200 bills  
 P5: Approx. 500 bills

**Weight**

0.65~0.75kg (Stackerless)  
 1.5 ~1.65kg (With Stacker)

**Bill Accepted Width**

P70-P5 : 62mm~70mm  
 P77-P2/P5: 66mm~77mm  
 P85-P5 : 68mm~85mm

**3. Packing List****Main**

Bill Acceptor

**Accessory**

Harness: Refer to 5-1  
 P Series Installation Guide  
 P Series DIP Switch Setting Guide

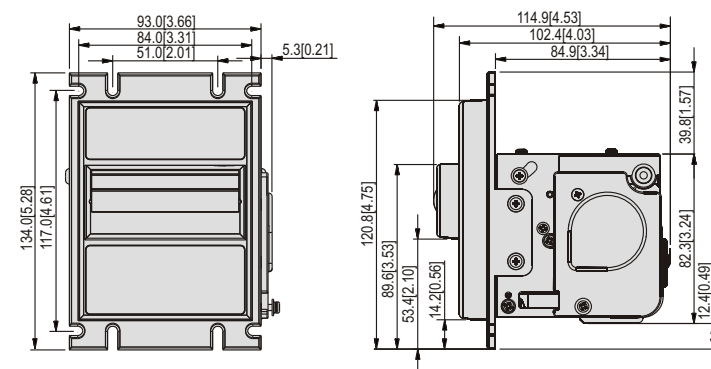
**4. Dimension****P70**

figure 1.

Unit:mm[inch]

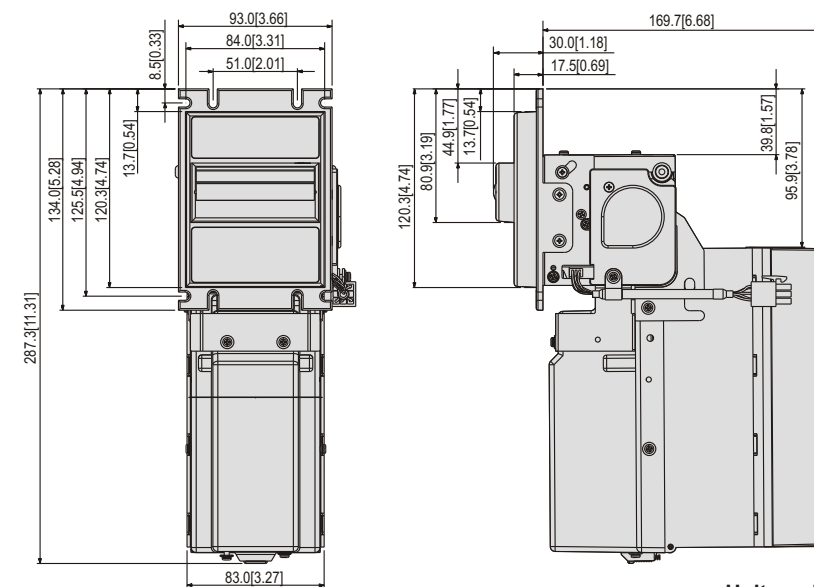
**P70-P5**

figure 2.

Unit:mm[inch]

## P77 (Down Stacker Type)

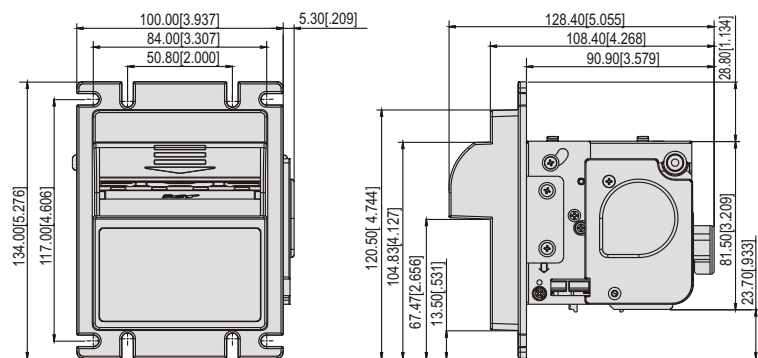


figure 3.

Unit:mm[inch]

## P77 (Up Stacker Type)

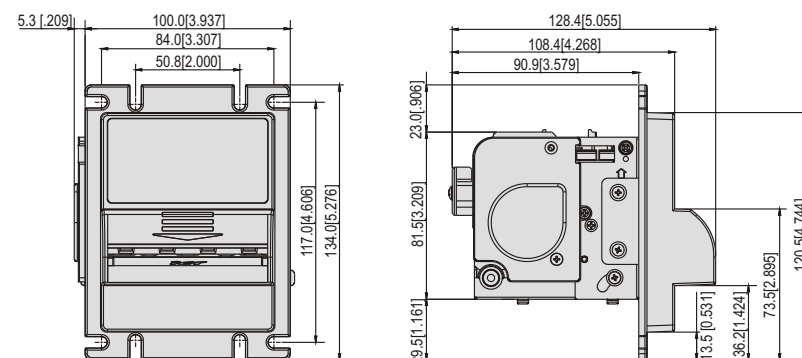


figure 5.

Unit:mm[inch]

## P77-P2/P5 (Down Stacker Type)

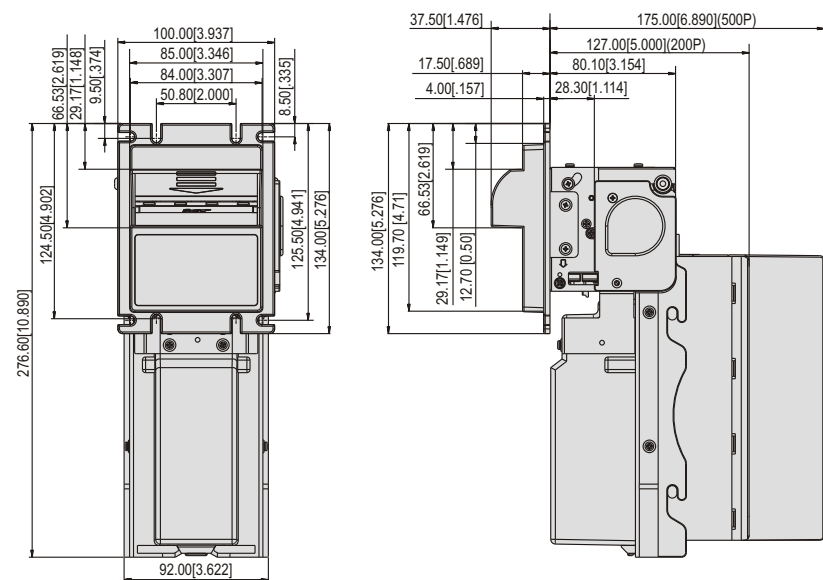


figure 4.

Unit:mm[inch]

## P77-P2/P5 (Up Stacker Type)

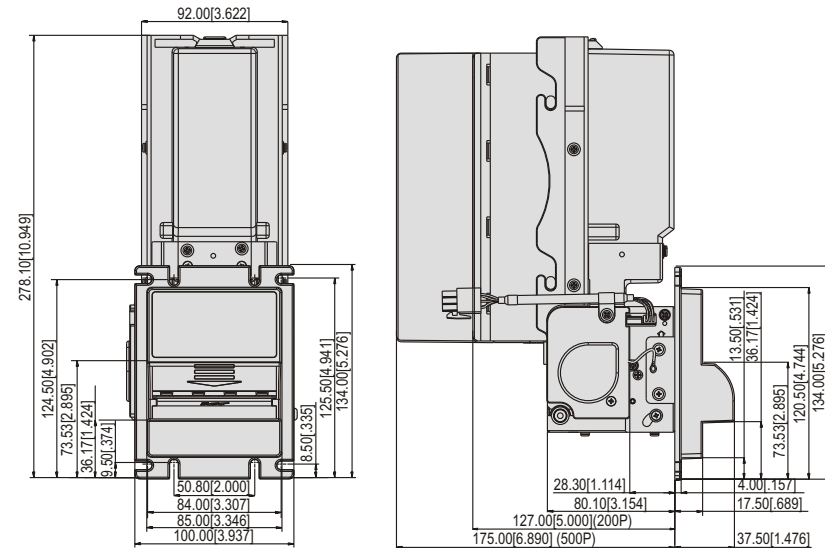


figure 6.

Unit:mm[inch]

P85

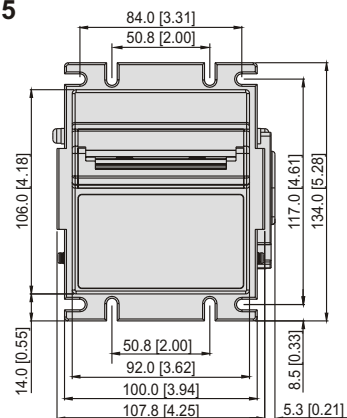


figure 7.

Unit:mm[inch]

P85-P5

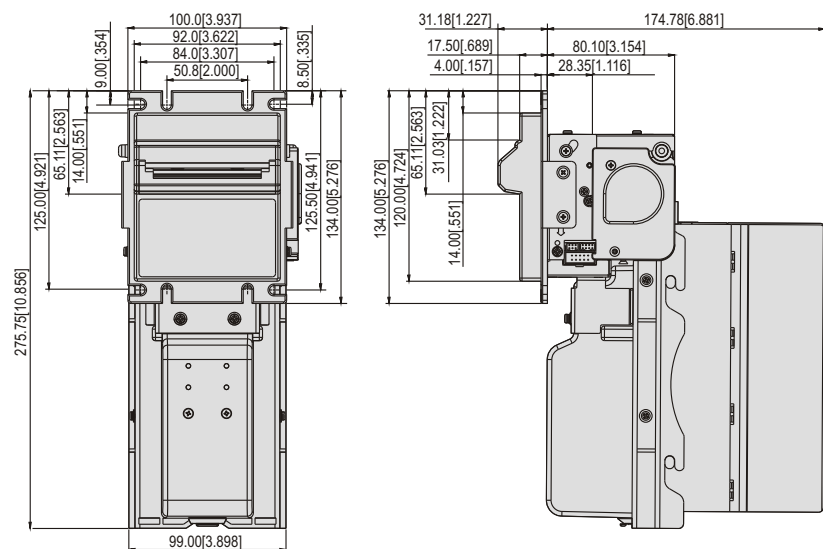


figure 8.

Unit:mm[inch]



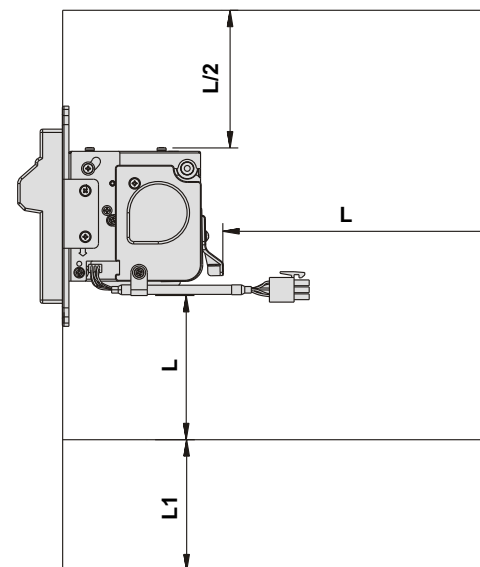
To install the bill acceptor on your VMC, please be aware of the dimension as below:

[ L ] : Longer than the maximum length of accepted bills.

[ L1 ] : Bill box capacity depth.

\* [ L/2 ] has to be longer than 70mm to open upper base.

Figure.9

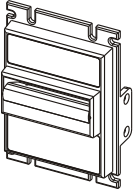
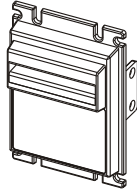


4-1. Bezel Application

P70

Bill Accepted Width: 62mm~70mm

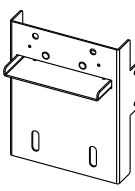
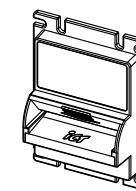
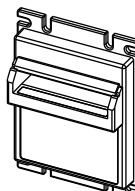
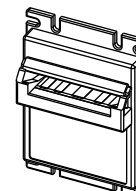
Table 1.

|                           |                                                                                   |                                                                                   |  |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--|
| Figure                    |  |  |  |
| Name                      | Break Proof Bezel Module(Green)                                                   | Break Proof Bezel Module(Green-Russia)                                            |  |
| Part Number               | 3RBA-FAC23XXX                                                                     | 3RBA-FAC24XXX                                                                     |  |
| Mounting Kits Application | V                                                                                 | V                                                                                 |  |

P77

Bill Accepted Width: 66mm~77mm

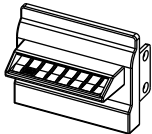
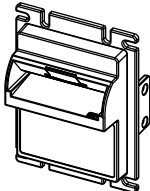
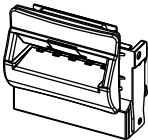
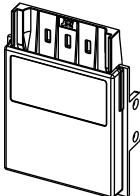
Table 2.

|                           |                                                                                     |                                                                                     |                                                                                     |
|---------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Figure                    |  |  |  |
| Name                      | Metal Bezel                                                                         | Tricolor Marquee Bezel (Down Stacker)                                               | Tricolor Marquee Bezel (Up Stacker)                                                 |
| Part Number               | 3RBA-STP07XXX                                                                       | 3RBA-FAC22XXX                                                                       | 3RBA-FAC39XXX                                                                       |
| Mounting Kits Application |                                                                                     | V                                                                                   | V                                                                                   |
| Figure                    |  |  |  |
| Name                      | Self-color Marquee Bezel                                                            | Green Bezel Module (Non Step Style)                                                 | Green Bezel Module (Step Style)                                                     |
| Part Number               | 3RBA-FAC22XXX                                                                       | 3RBA-FAC25XXX                                                                       | 3RBA-FAC26XXX                                                                       |
| Mounting Kits Application | V                                                                                   | V                                                                                   | V                                                                                   |

P77

Bill Accepted Width: 66mm~77mm

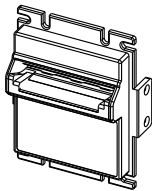
Table 3.

|                           |                                                                                   |                                                                                   |                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Figure                    |  |  |  |
| Name                      | Angular Snout Bezel                                                               | Marquee Break Proof Bezel (Aluminum)                                              | S Type Marquee Bezel                                                              |
| Part Number               | 3RBA-FAC29XXX                                                                     | 3RBA-FAC40XXX                                                                     | 3RBA-FAC43XXX                                                                     |
| Mounting Kits Application |                                                                                   |                                                                                   |                                                                                   |
| Figure                    |  |                                                                                   |                                                                                   |
| Name                      | Horizontal Bezel Module                                                           |                                                                                   |                                                                                   |
| Part Number               | 3RBA-FAC21XXX                                                                     |                                                                                   |                                                                                   |
| Mounting Kits Application |                                                                                   |                                                                                   |                                                                                   |

P85

Bill Accepted Width: 68mm~85mm

Table 4.

|                           |                                                                                     |  |  |
|---------------------------|-------------------------------------------------------------------------------------|--|--|
| Figure                    |  |  |  |
| Name                      | Bezel Module (Green)                                                                |  |  |
| Part Number               | 3RBA-FAC27XXX                                                                       |  |  |
| Mounting Kits Application | V                                                                                   |  |  |



5. Installation

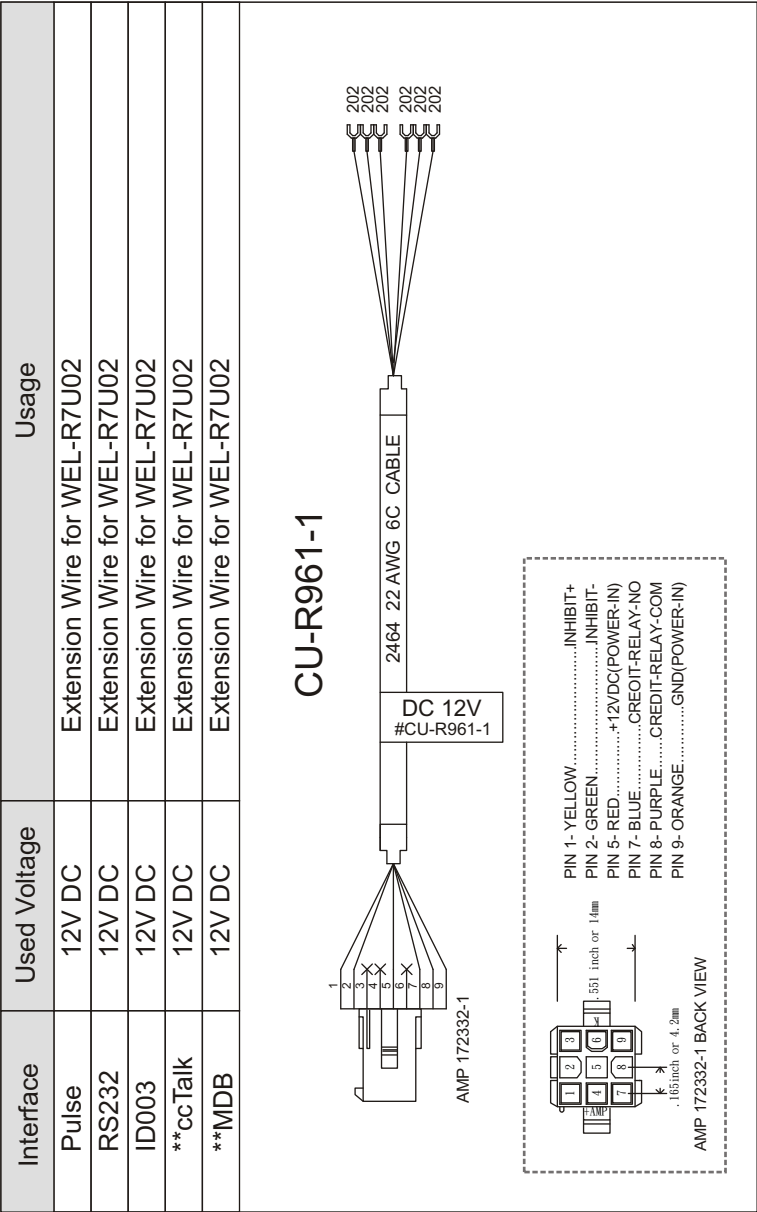
5-1. Harness Application

Table 5.

| Model     | Interface | Used Voltage | Usage               | Harness No. | Page |
|-----------|-----------|--------------|---------------------|-------------|------|
| P70/77/85 | Pulse     | 12V DC       | Extension Wire      | CU-R961-1   | 15   |
|           |           |              | Power & *Data Comm. | WEL-R7U02   | 16   |
|           | RS232     | 12V DC       | Extension Wire      | CU-R961-1   | 15   |
|           |           |              | Power               | WEL-R7U02   | 16   |
|           |           |              | *Data Comm.         | WEL-R7U06   | 17   |
|           | GBA       | 12V DC       | *Data Comm.         | WEL-R8U08   | 18   |
|           |           |              | Power               | WEL-R7U02   | 16   |
|           | ID003     | 12V DC       | Extension Wire      | CU-R961-1   | 15   |
|           |           |              | Power               | WEL-R7U02   | 16   |
|           |           |              | *Data Comm.         | WEL-R7U06   | 17   |
|           | **ccTalk  | 12V DC       | Extension Wire      | CU-R961-1   | 15   |
|           |           |              | Power & *Data Comm. | WEL-R7U02   | 16   |
|           | **MDB     | 12V DC       | Extension Wire      | CU-R961-1   | 15   |
|           |           |              | Power & *Data Comm. | WEL-R7U02   | 16   |
|           | IGT       | 12V DC       | *Data Comm.         | WEL-RP703   | 19   |
|           |           |              | Power               | WEL-R061    | 20   |

\* Data Comm. : Data Communication.  
\*\* Plug-in Board: (1) ccTalk: 5RBG-AA248M2-04-2  
(2) MDB : (New) 5RBG-AA313NA0-01  
(Old) 5RBG-AA266NA0-01

Figure 10.



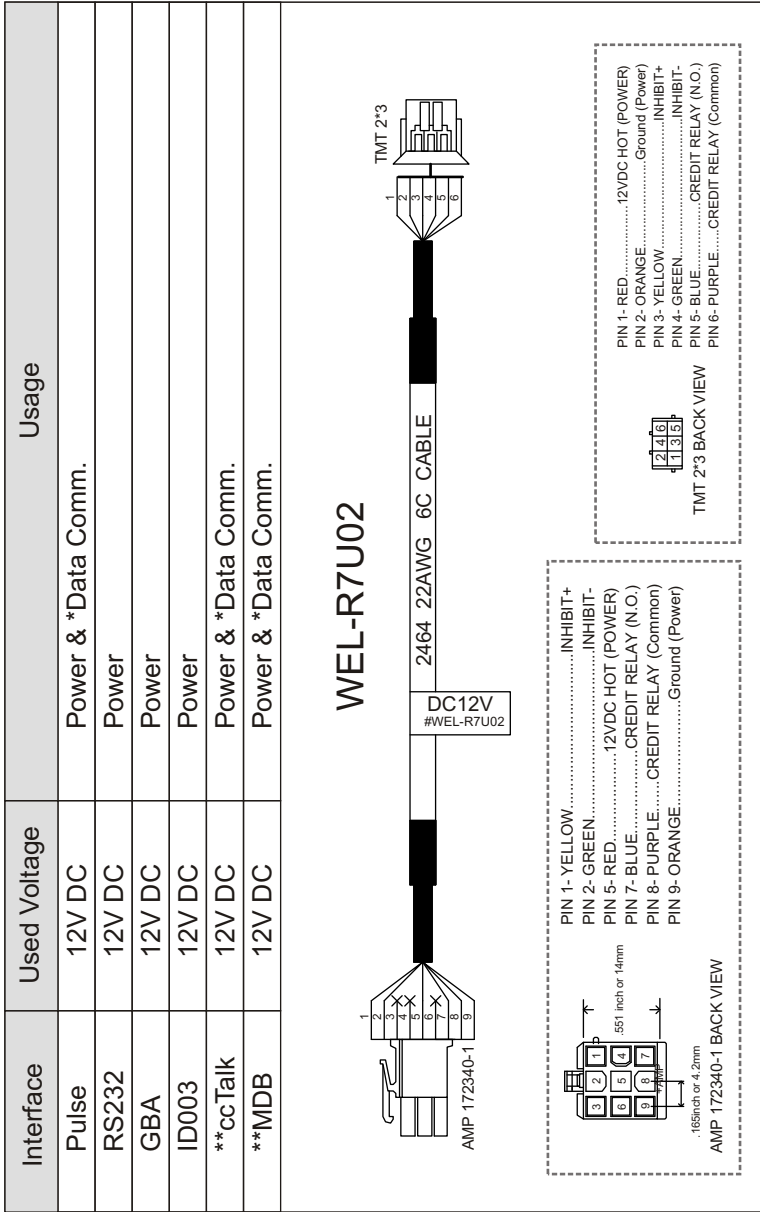


Figure 11.

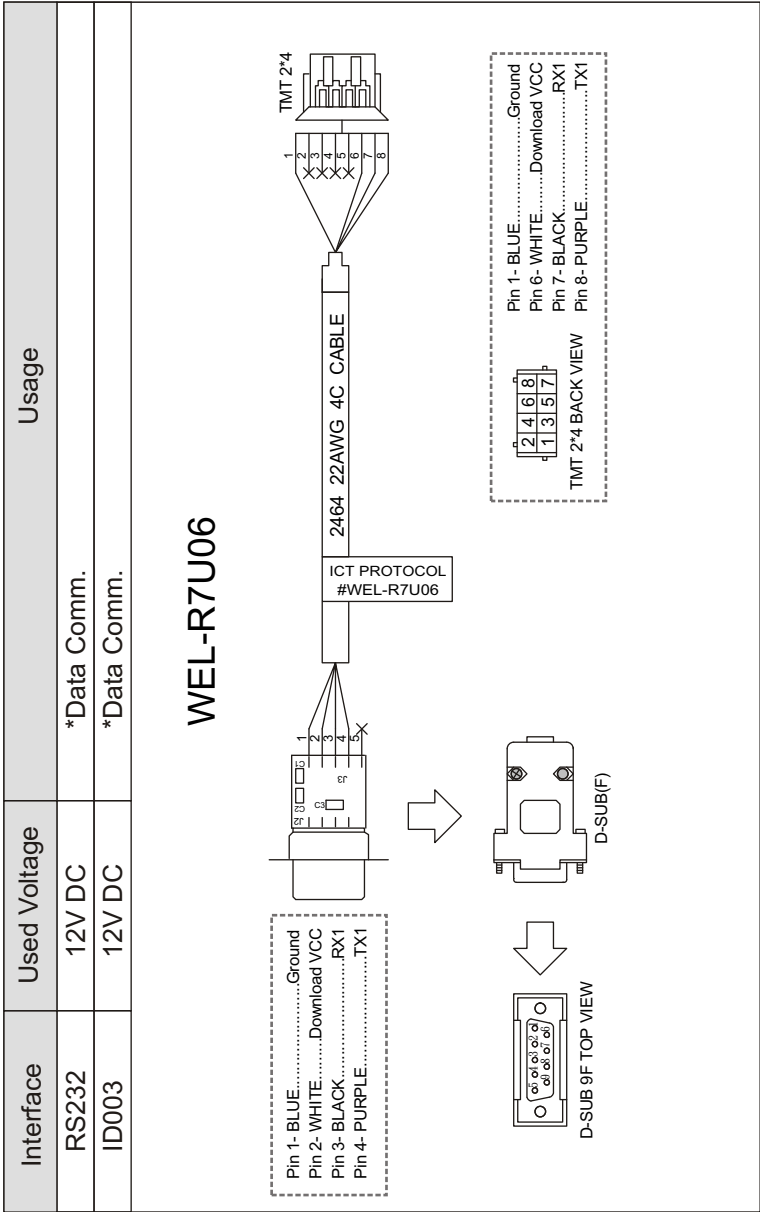


Figure 12.

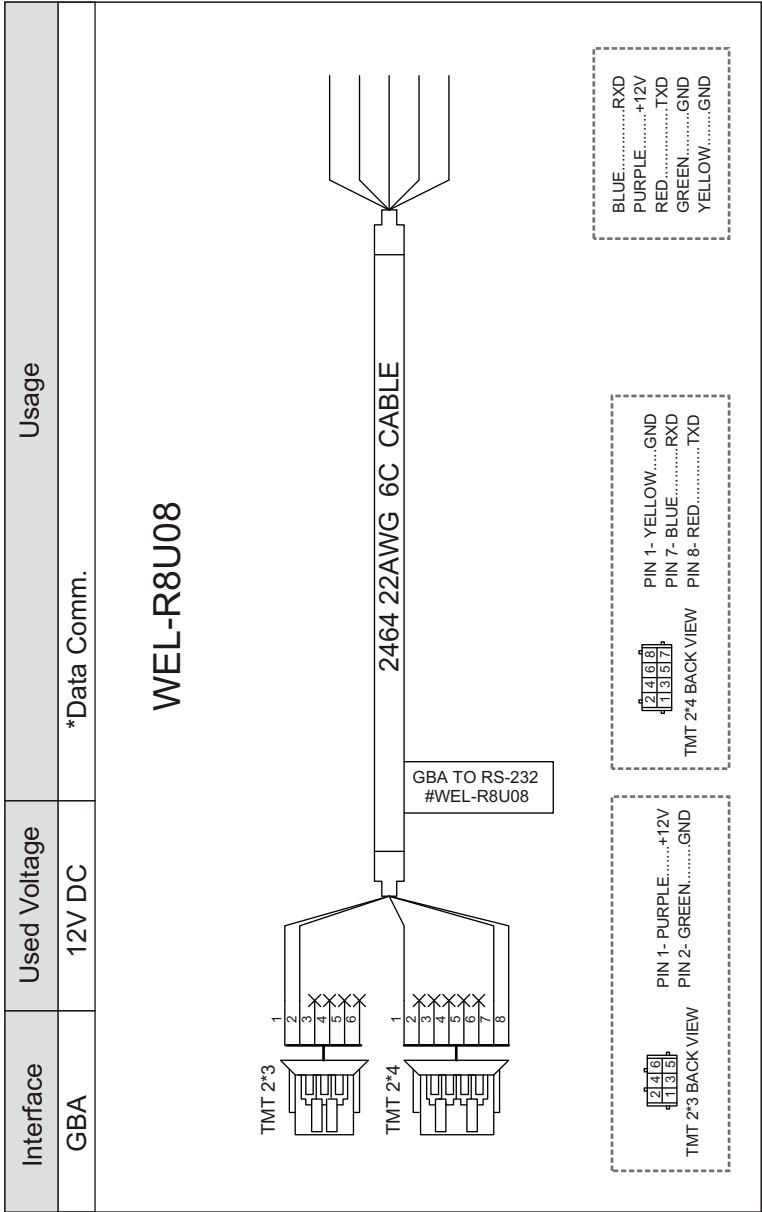


Figure 13.

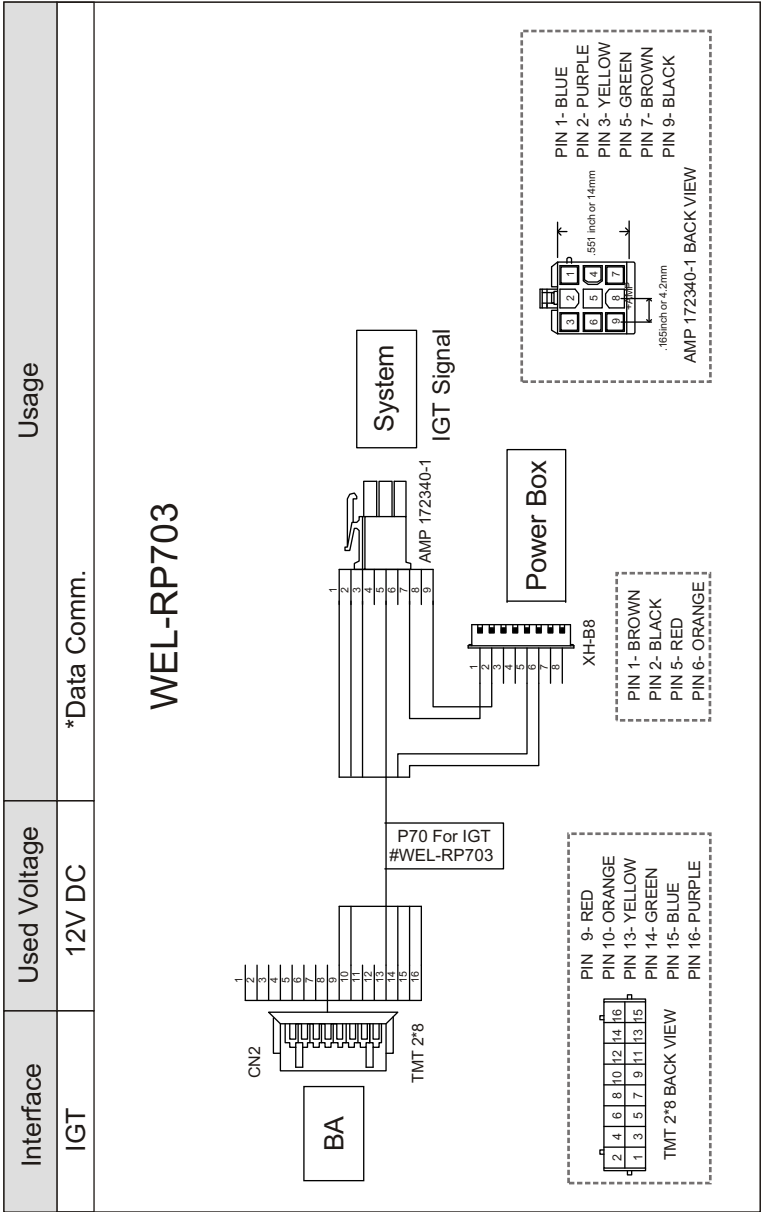


Figure 14.

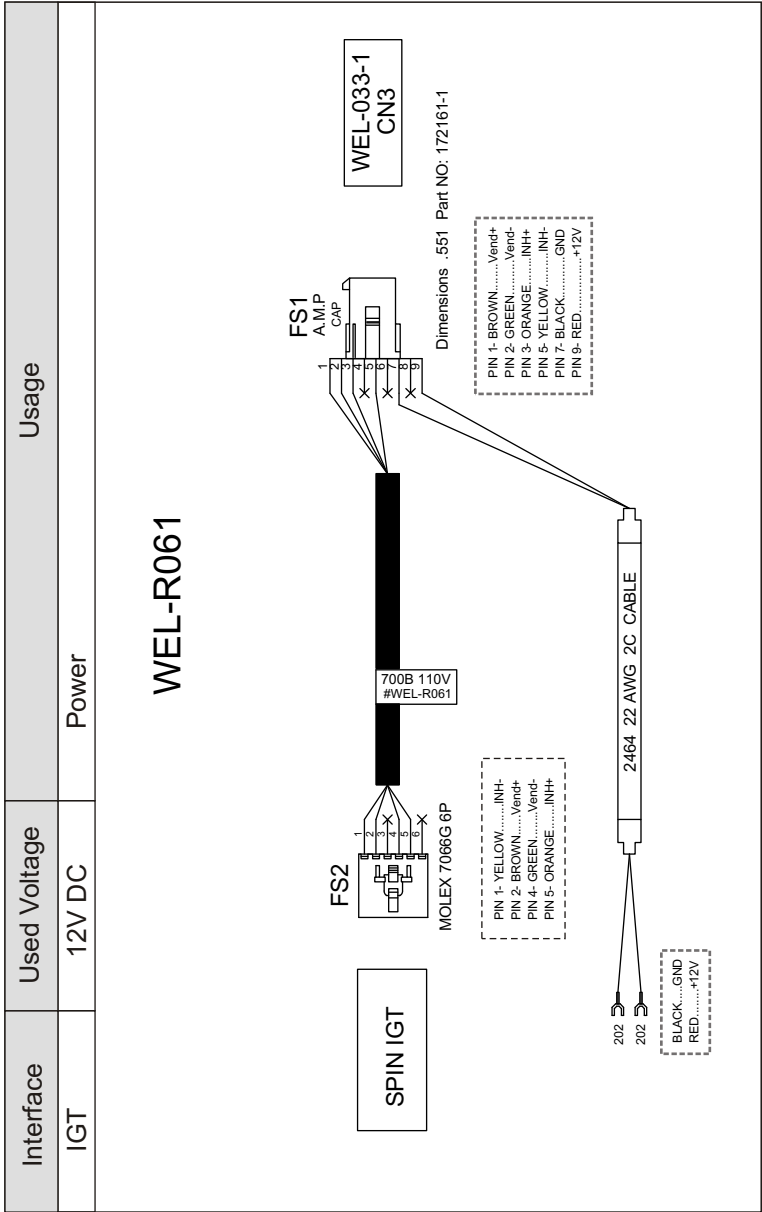
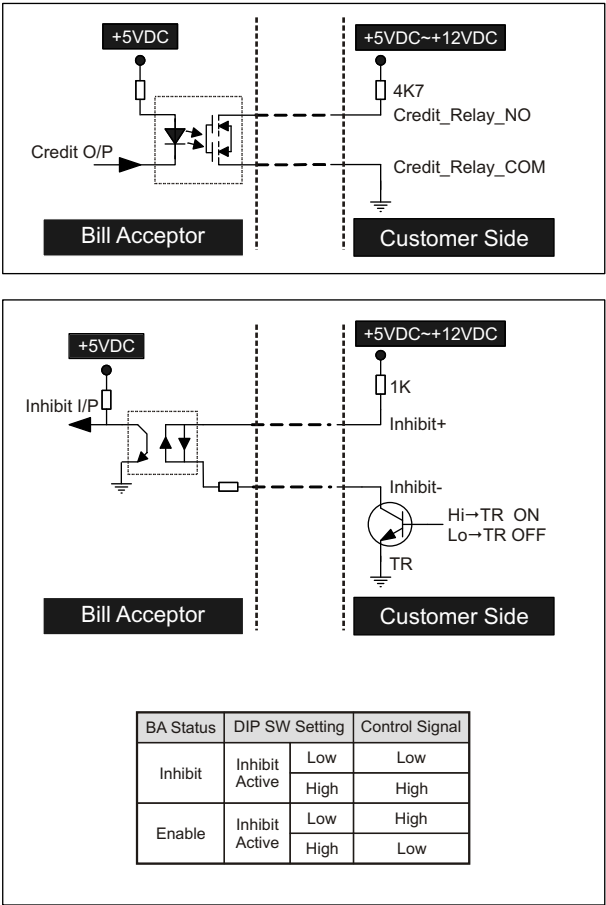


Figure 15.

5-1-1. I/O Circuit

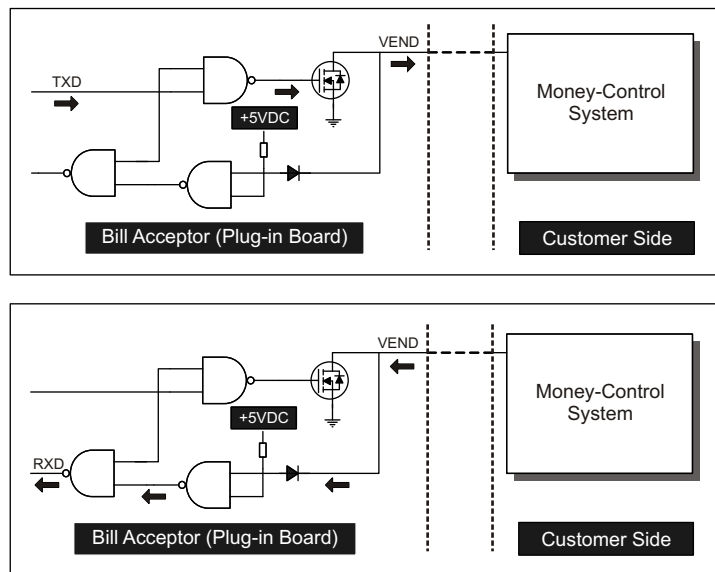
Pulse Interface

figure 16.



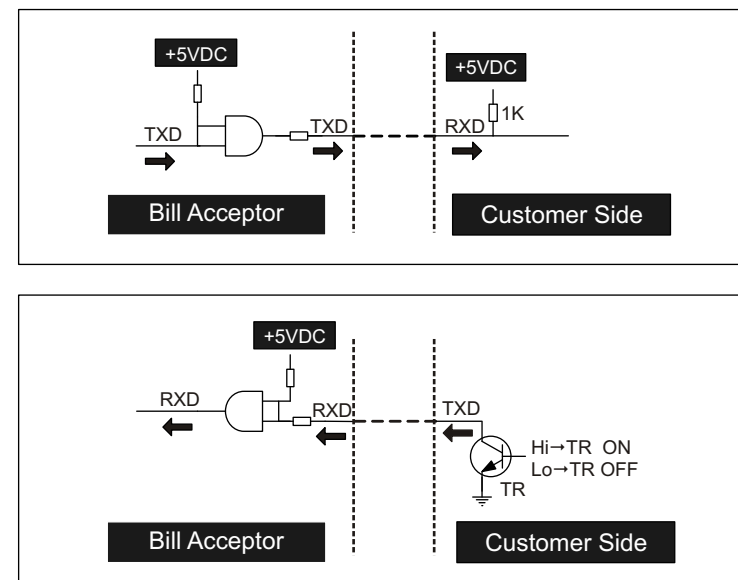
## ccTalk Interface

Figure 17.



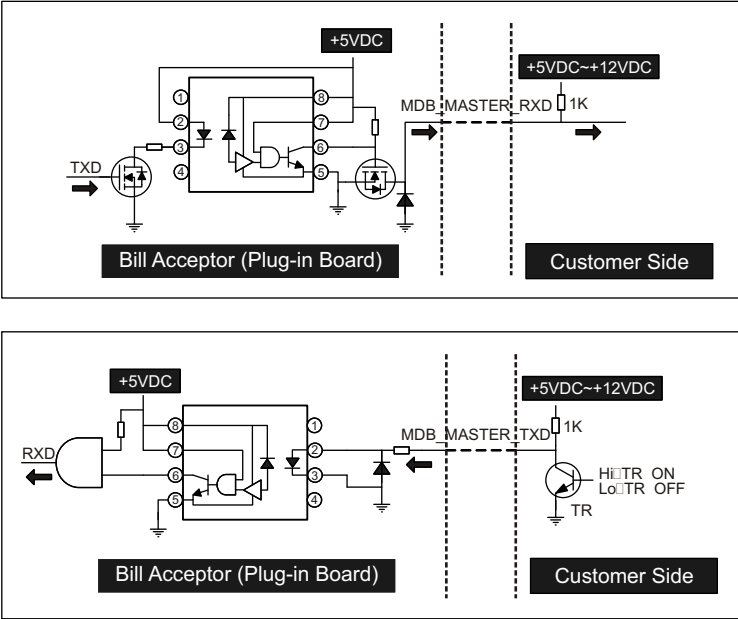
## ICT Protocol, GBA and ID003 Interface

figure 18.



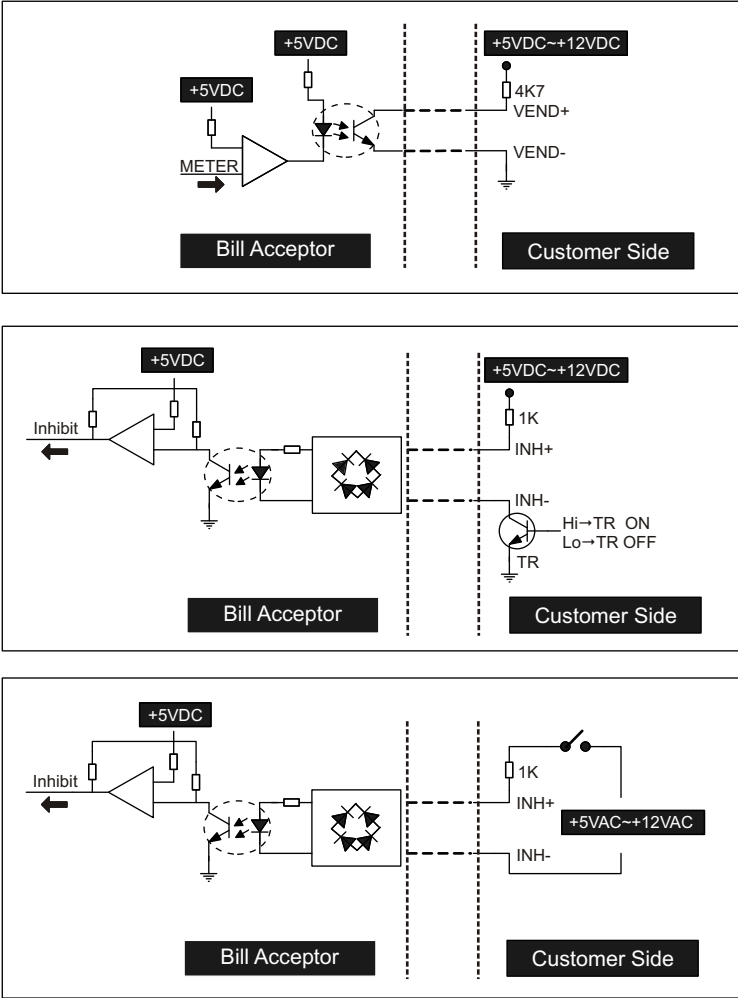
MDB Interface

Figure 19.



IGT Interface

figure 20.



## 5-2. DIP Switch Setting

The serial DIP switches which are located on the side of P series (as figure 21). According to different currencies and credit output format which are used by users, DIP switch settings could be varied to fit users' needs. Besides, there's also a serial DIP switches at the bottom of P series for interface settings (as figure 22).

Please refer to “P Series DIP Switch Setting Guide” in the package for more details.

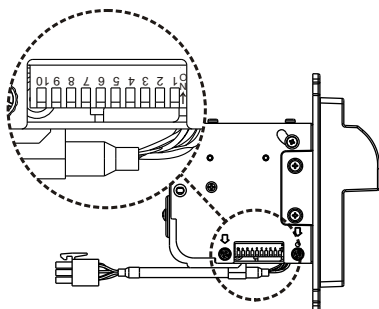


figure 21.

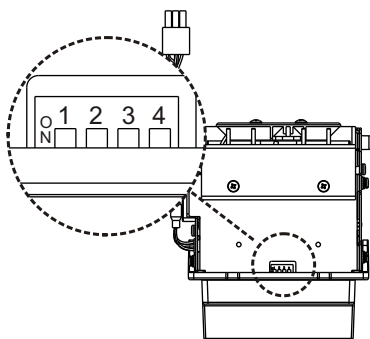


figure 21.

### 5-3. Software Download and Upgrade

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

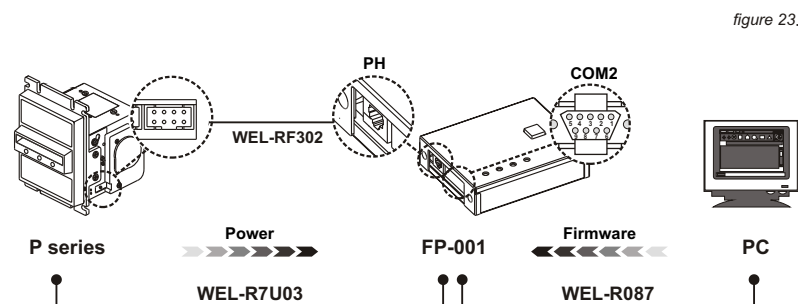


figure 23.

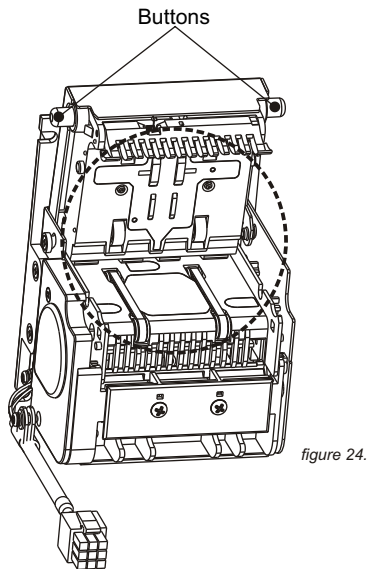
Please turn on Bill Acceptor after connecting.

6. Maintenance

Foreign objects on the LED or sensor may cause bill jamming and decrease acceptance rate. To make sure the bill acceptor always works smoothly, please clean the internal parts regularly.

To clean the internal parts:

- 1. Turn Bill Acceptor off.
- 2. Open LED Assembly by pushing buttons on both sides.
- 3. Use a soft, dry cloth or towel to clean the bill path and sensors.





**Maintenance Notice**  
(Any improper maintenance will result invalid warranty.)

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

7. Troubleshooting

Bezel LED Errors

figure 25.

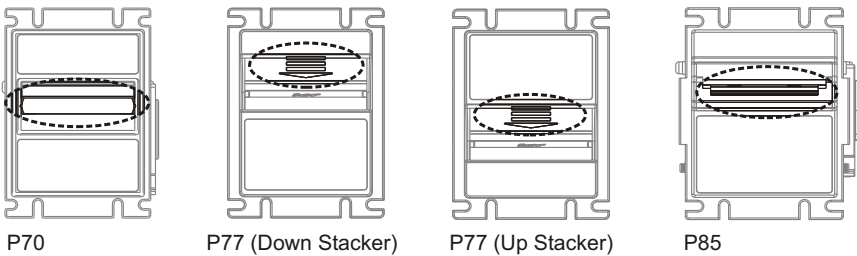


Table 6.

| LED Flashes | Status                            | Corrective Actions                                                      |
|-------------|-----------------------------------|-------------------------------------------------------------------------|
| 1           | Bill jammed.                      | Open bill path unit and then remove the jammed bill.                    |
| 2           | Disable                           | Inspect for right DIP switch setting.                                   |
| 3           | Recognition sensor module error.  | Inspect for foreign objects on sensor or bill path and clean.           |
| 3+1         | Purple 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+4         | Fish sensor error.                | Inspect for foreign objects on sensor or bill path and clean.           |
| 4           | A stringing attempt has detected. | Inspect for foreign objects on sensor or bill path and clean.           |
| 6           | Stacker error or stacker full.    | Inspect for foreign objects on stacker and clean or 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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Website: [www.ictgroup.com.tw](http://www.ictgroup.com.tw)