



Bill Acceptor

# V7E



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Installation Guide

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## 1. Introduction

### 1-1. Overview

V7E is a bill acceptor which features a double-lock bill box for high-security with acceptance rate up to 96% or even greater.

### 1-2. Features

- Four-way bill insertion acceptance.
- Auto-calibrating.
- Windows XP compatible and USB interface available.
- Safe double-lock removable and 200 bills box capacity.
- Selective lock between plastic knob and tubular lock.

## 2. Specifications

### General

**Acceptance Rate** 96% or greater

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

**Interface** Pulse, ICT Protocol <RS232>, RS232 A0, MDB, ICT Protocol <USB (Optional)>  
\* Combination is possible. Ex. Pulse+MDB

**Transaction Speed** Approx. 3 seconds to stack

**Bill Insertion** Four-way acceptable



**Installation: Indoor use only!!**

### Electrical

**Power Source** 12V DC (10.8~13.2V DC)  
24V AC (21.6~26.4V AC)  
34V DC (20 ~42.5V DC)

**Power Consumption** 12V DC- Standby : 0.3 A, 4W  
Operation: 0.8 A, 10W  
Maximum: 2.5 A, 30W  
24V AC- Standby : 0.2 A, 5W  
Operation: 0.5 A, 12W  
Maximum: 1.5 A, 36W  
34V DC- Standby : 0.15A, 6W  
Operation: 0.4 A, 14W  
Maximum: 1.35A, 46W

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

**Mechanical**

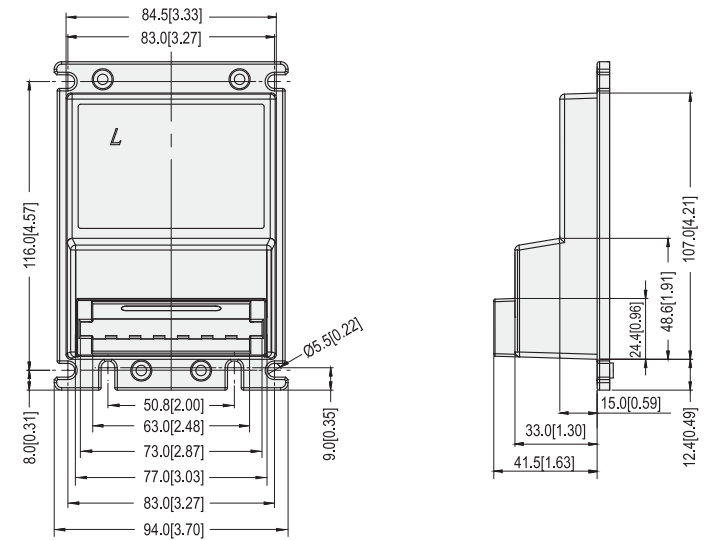
<b>Bill Capacity</b>	Approx. 200 bills
<b>Outline Dimension</b>	Plastic knob- Refer to page.6 Tubular lock- Refer to page.7
<b>Weight</b>	Approx. 1.25kg
<b>Lock Type</b>	Plastic Knob or Tubular lock (Customize)
<b>Bill Accepted Width</b>	62~72mm

**3. Packing List**

<b>Main</b>	Bill Acceptor
<b>Accessory</b>	Harness: Refer to <b>5-1</b> V7E Installation Guide V7E DIP Switch Setting Guide A Pair of keys (For tubular lock only)

**4. Dimension**

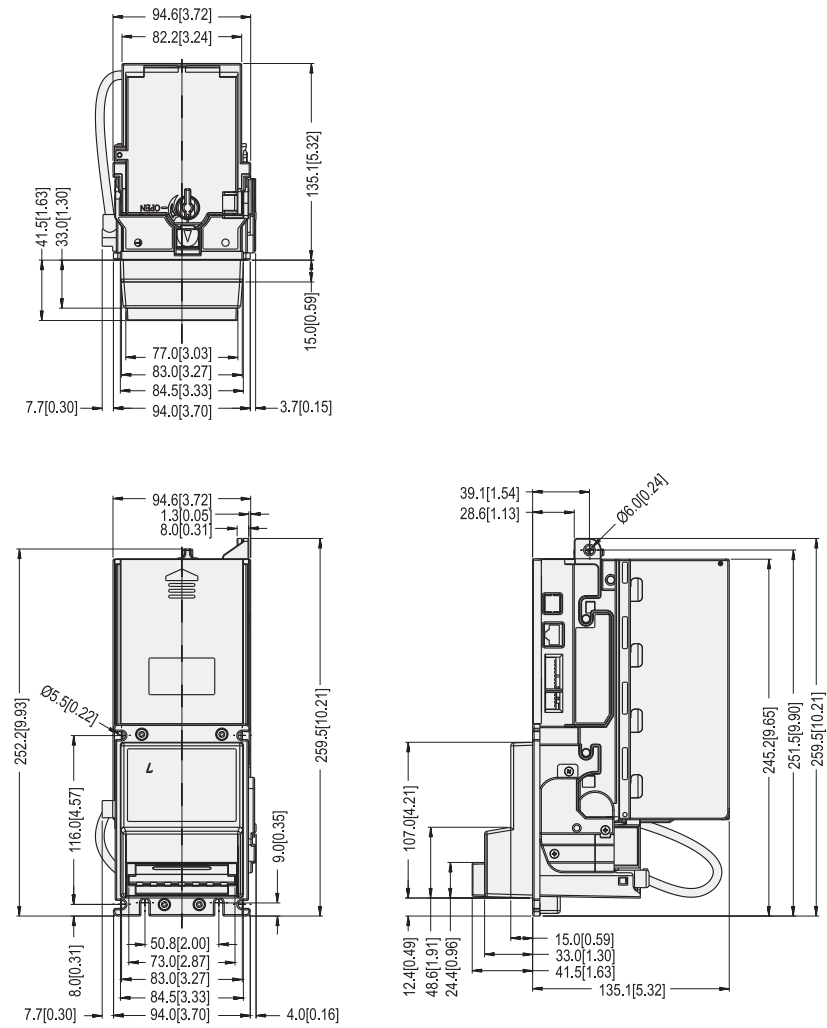
Bezel



Unit : mm [inch]

Figure 1.

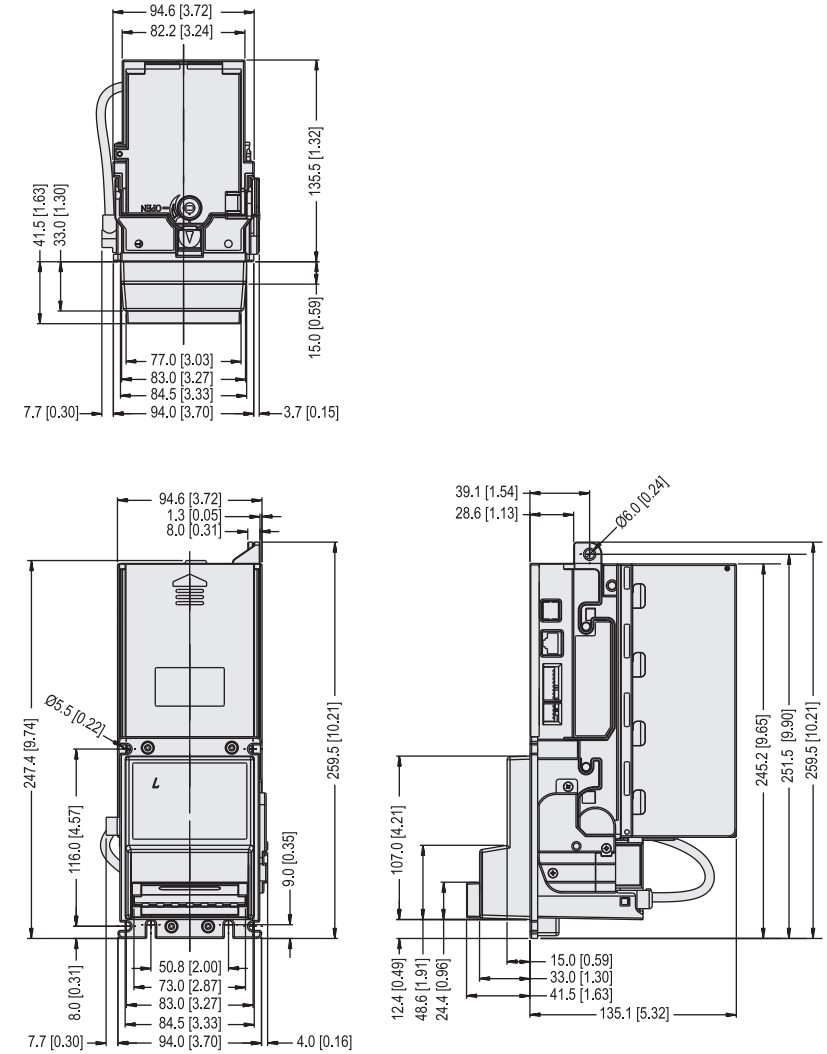
Plastic Knob



Unit : mm [inch]

Figure 2.

Tubular lock



Unit : mm [inch]

Figure 3.

## 5. Installation

### 5-1. Harness Application

Table 1.

Interface	Used Voltage	Usage	Harness	Page	
Pulse	12V DC	Power & *Data Comm.	WEL-RV701	9	
		Extension Wire	CU-R961-1	10	
	24V AC	Power & *Data Comm.	WEL-RV702**	11	
		Power & *Data Comm.	WEL-RV703**	12	
MDB	34V DC	Power & *Data Comm.	WEL-RM006	13	
ICT Protocol	RS232	12V DC	*Data Comm.	WEL-RV706	14
		Power	WEL-RV701	9	
		Extension Wire	CU-R961-1	10	
	USB	12V DC	*Data Comm.	WEL-RU1180 (Optional)	15
			Power	WEL-RV701	9
			Extension Wire	CU-R961-1	10
RS232 A0	12V DC	*Data Comm.	WEL-RV706	14	
		Power	WEL-RV701	9	
		Extension Wire	CU-R961-1	10	

\* Data Comm. : Data Communication.

\*\* Please select between WEL-RV702 and WEL-RV703 according to the connector on your VMC.

Figure 4.

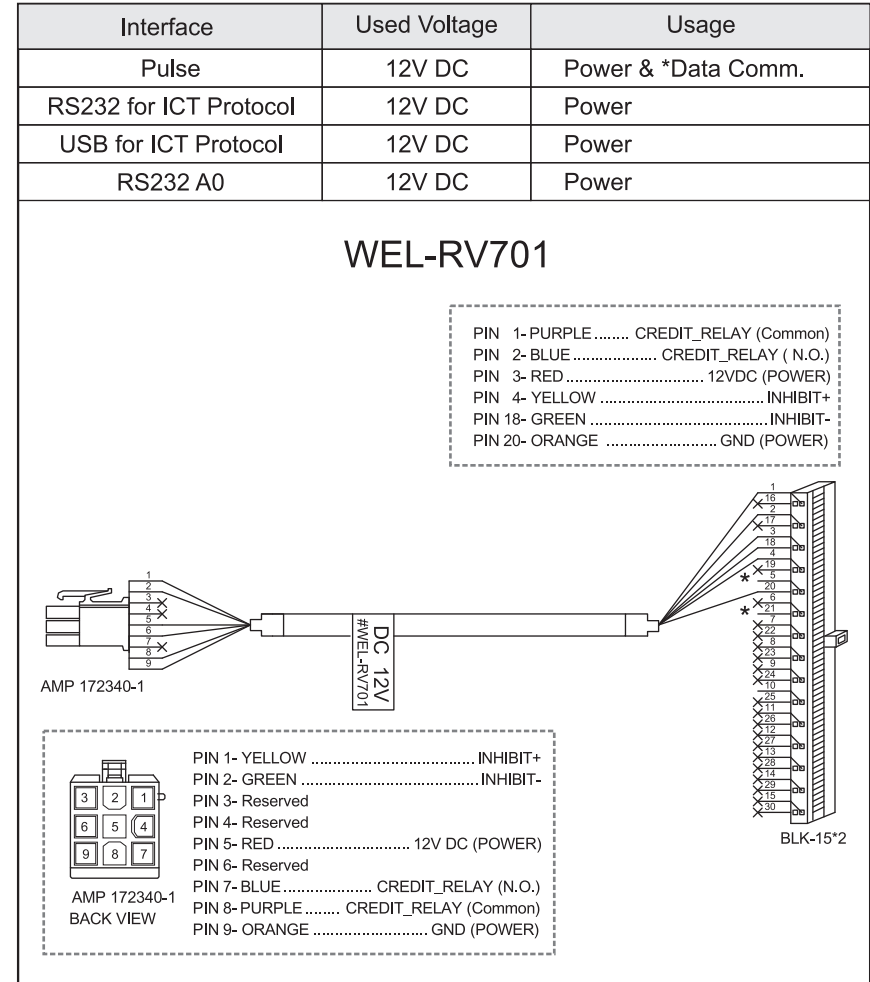


Figure 5.

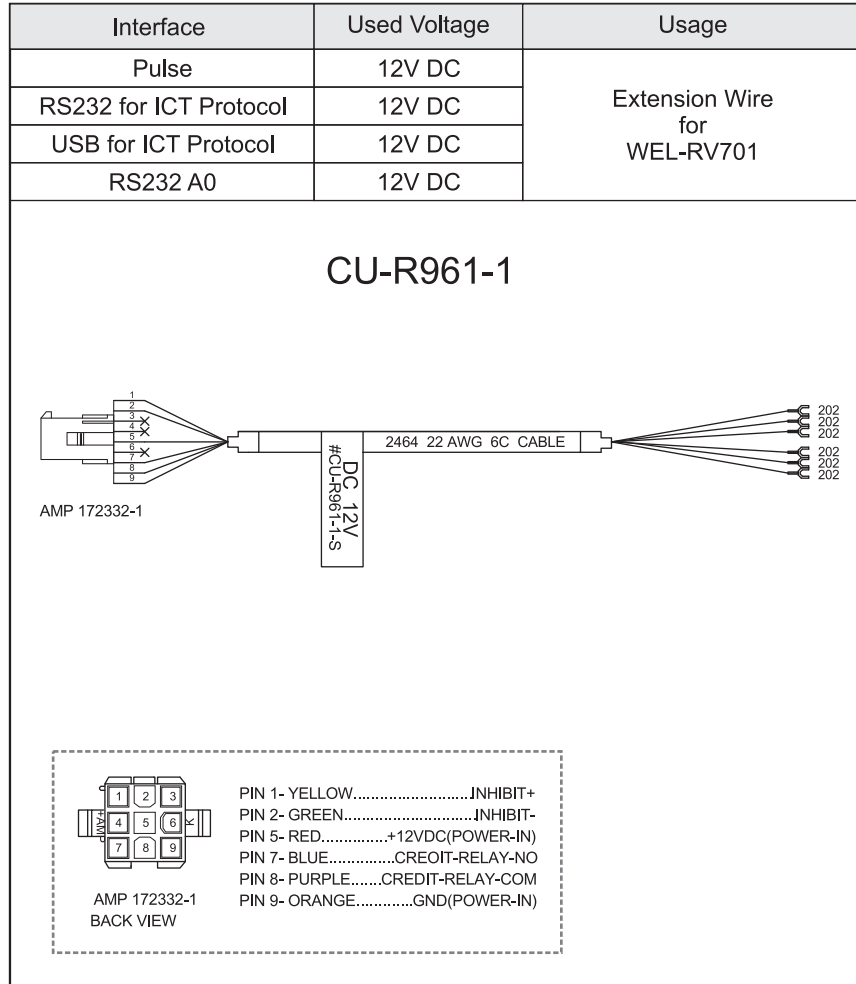


Figure 6.

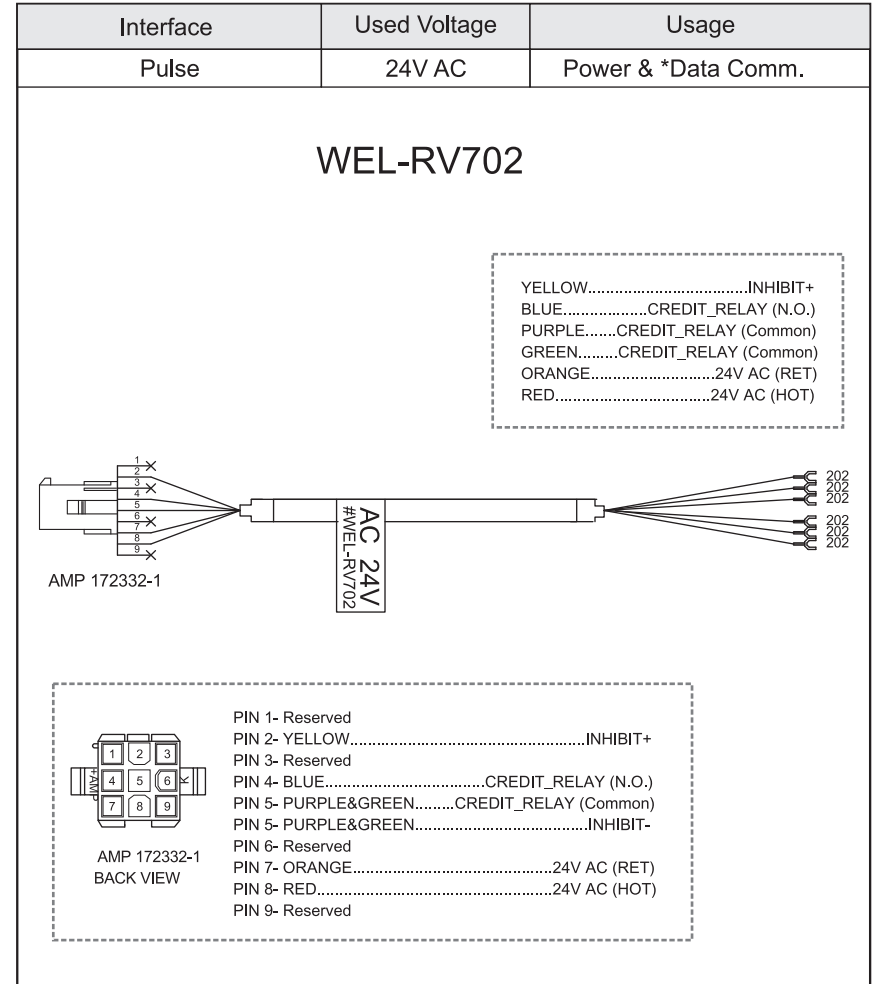


Figure 7.

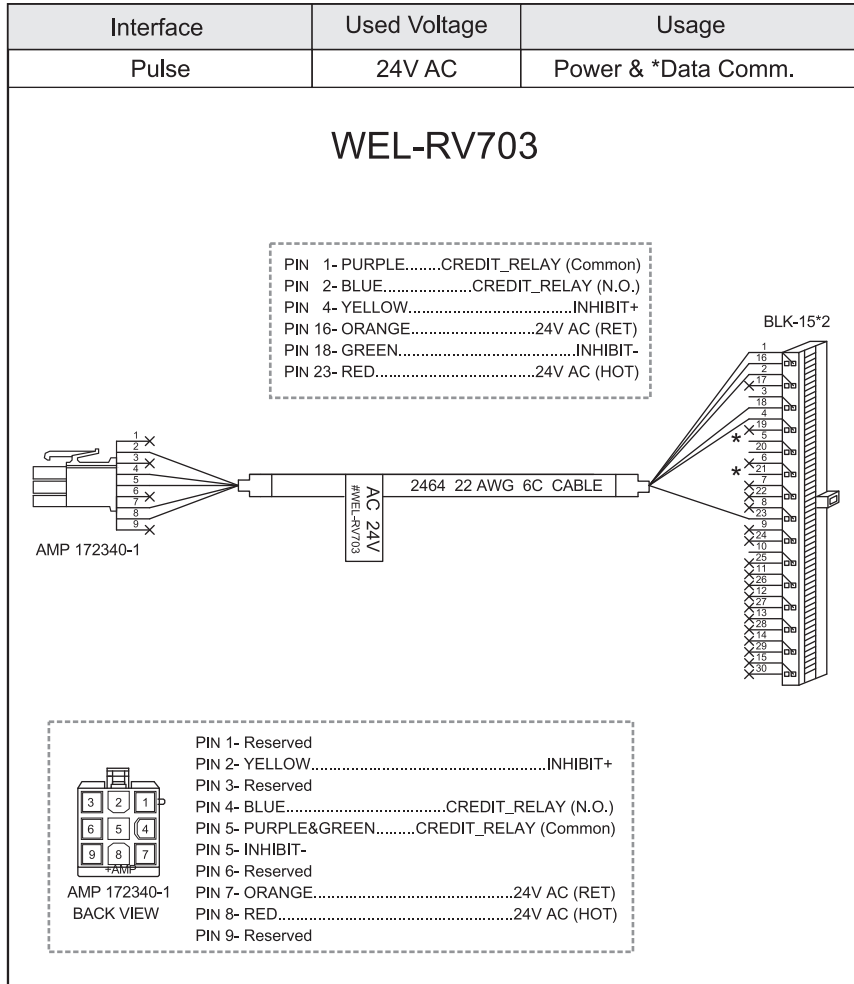


Figure 8.

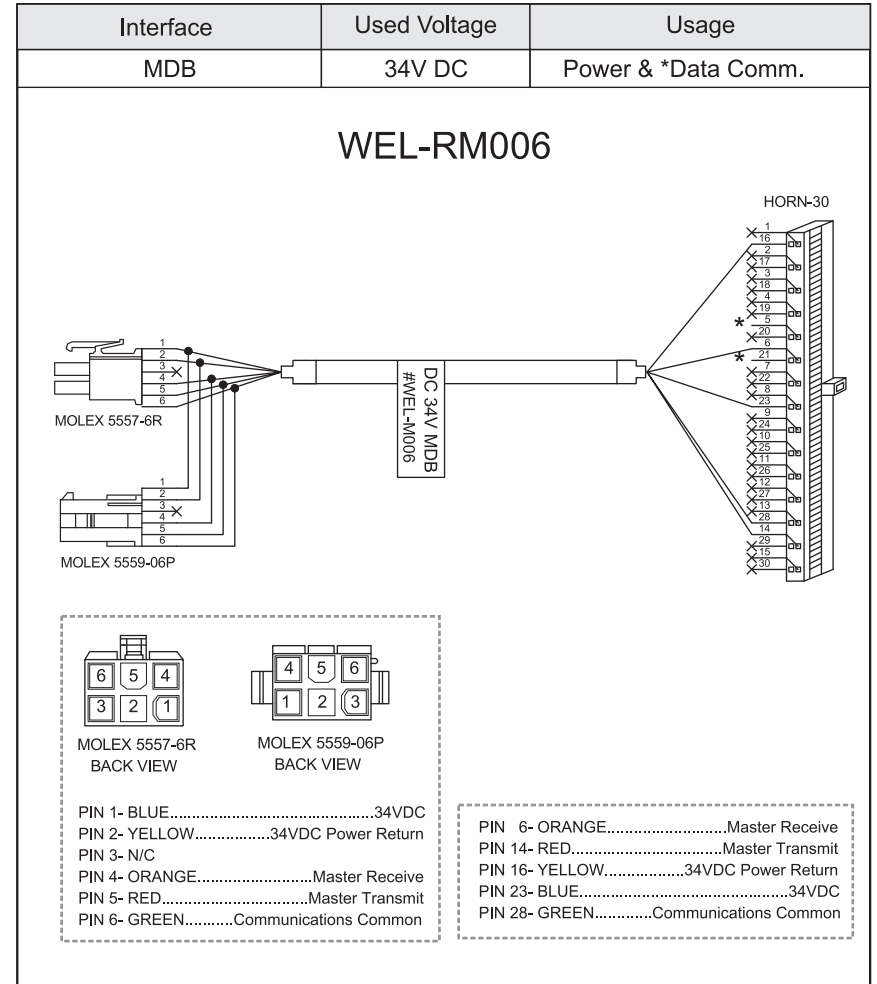




Figure 9.

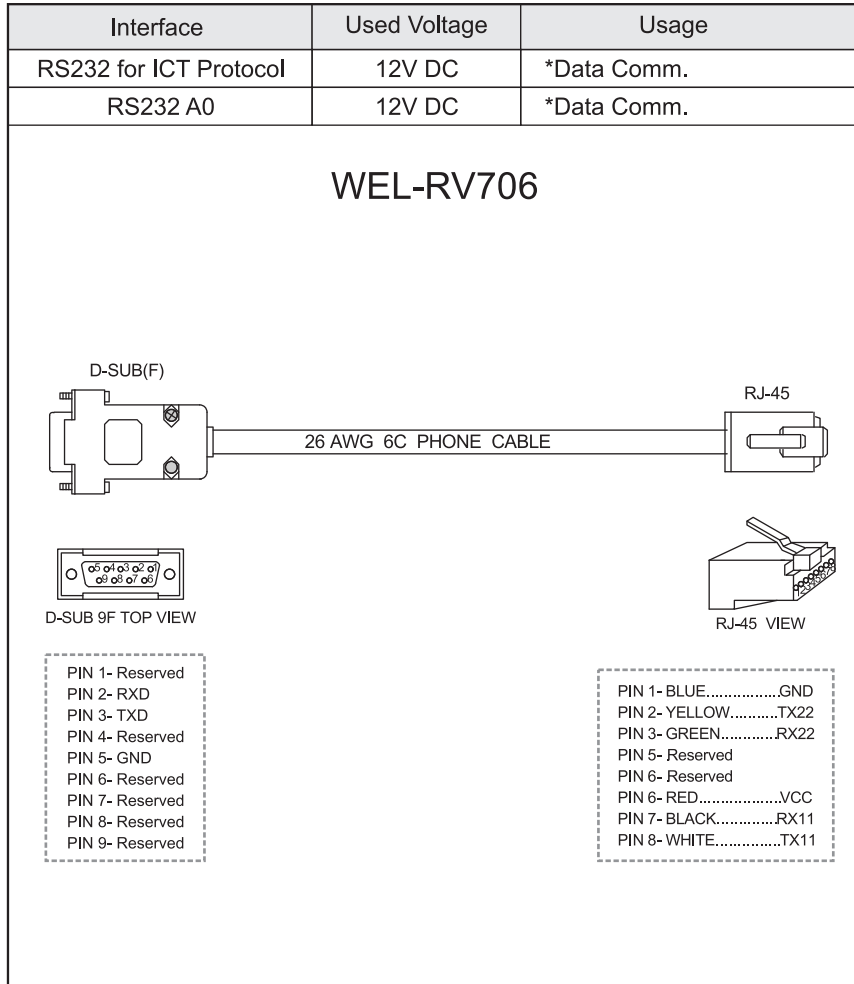
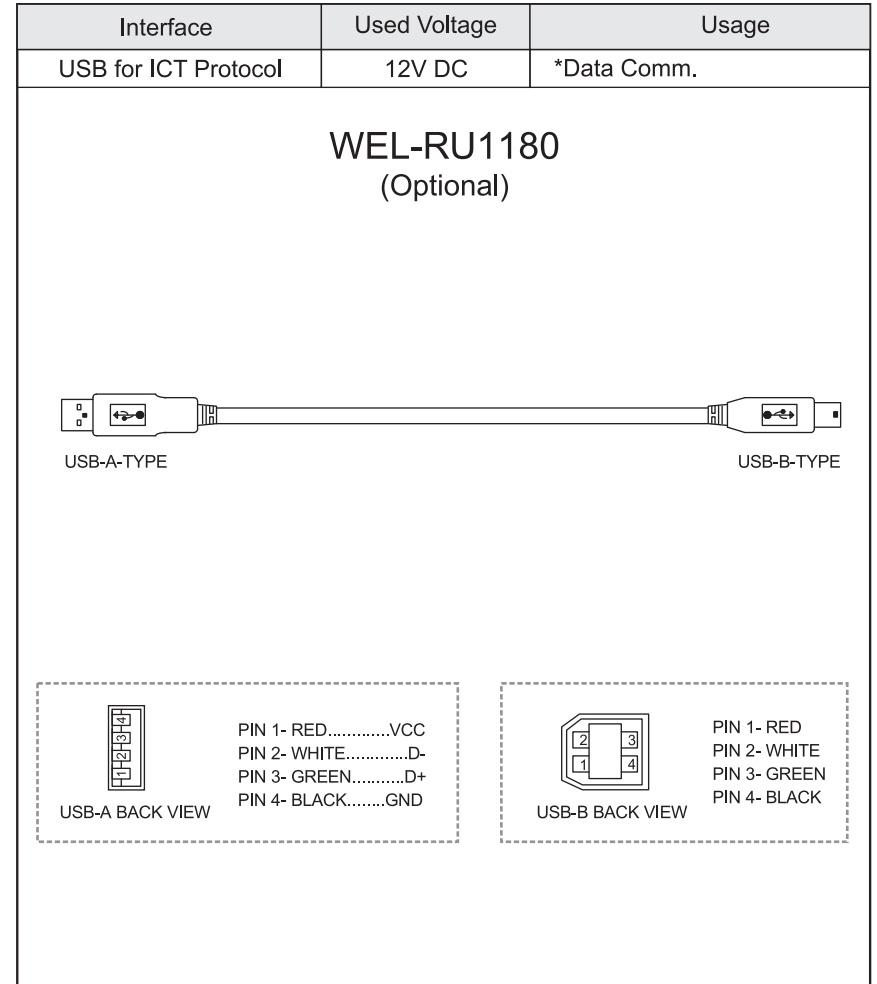


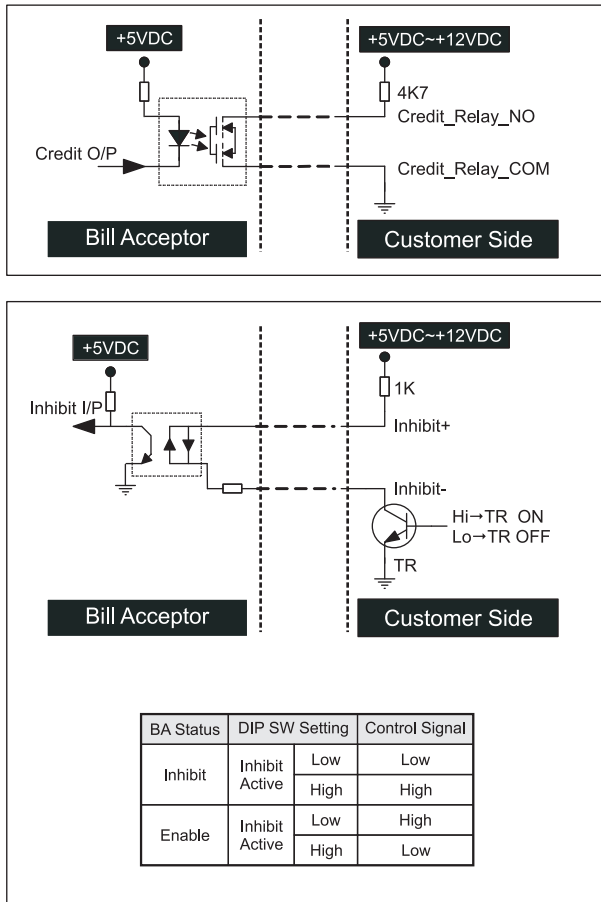
Figure 10.



5-1-1. I/O Circuit

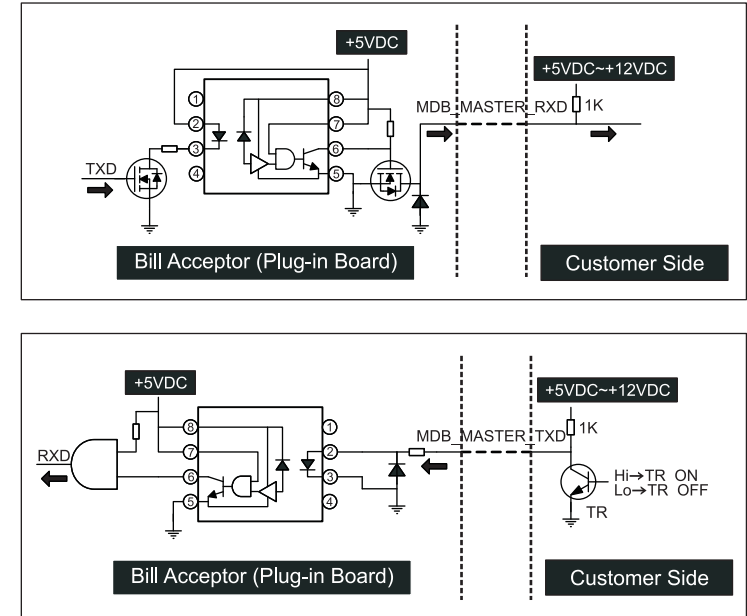
Pulse Interface.

Figure 11.



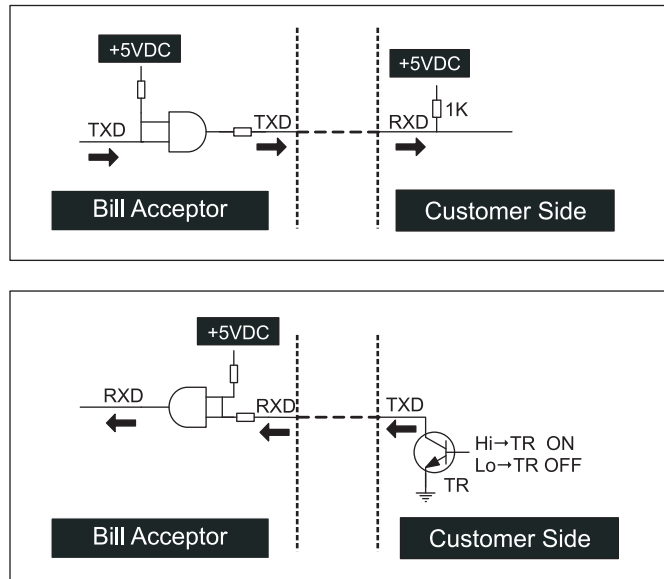
MDB Interface.

Figure 12.



ICT-Protocol & RS232 A0 Interface.

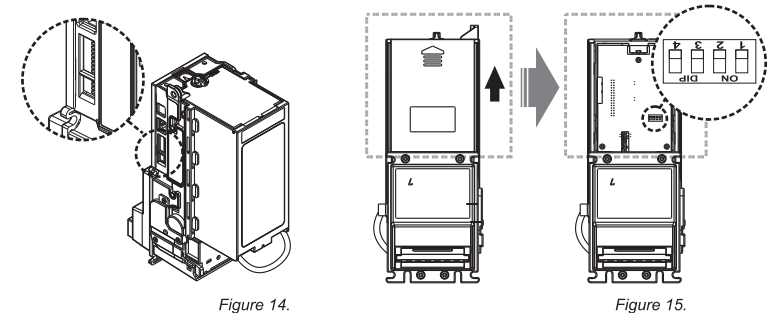
Figure 13.



5-2. DIP Switch Setting

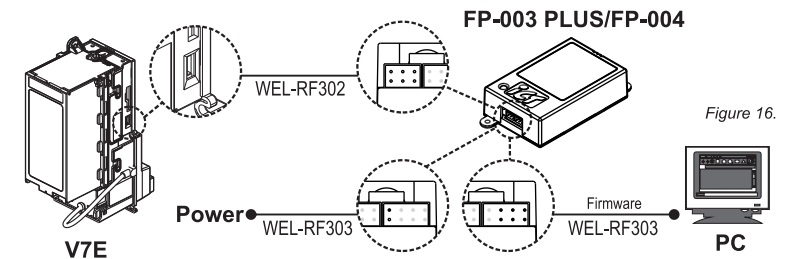
There are two serial DIP switches which are set on the side of V7E (as figure 14). According to different currencies which are used by users, DIP switch settings could be varied to fit users' needs. There is also a serial DIP switch on the base of the unit for inside interface settings (as figure 15).

Please refer to "V7E DIP Switch Setting Guide" in the package for more details.



5-3. Software Download and Upgrade

To download and upgrade the software to V7E, the programmer (FP-003 PLUS / FP-004) is needed. Please contact ICT to purchase FP-003 PLUS/ FP-004 and refer to FP-003 PLUS/ FP-004 user guide for software download and upgrade information.



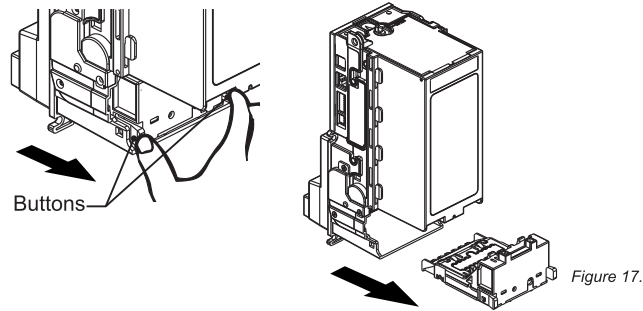
Please turn on Bill Acceptor after connecting.

## 6. Maintenance

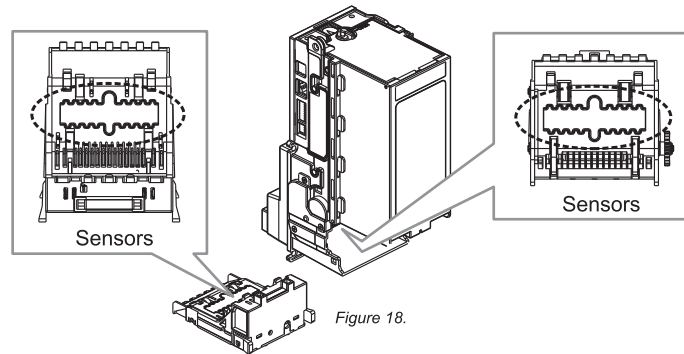
To make sure the bill acceptor always works smoothly, please clean the internal parts every two weeks to every two months.

To clean the internal parts:

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



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



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

## 7. Trouble Shooting

### 7-1. Bezel LED Errors

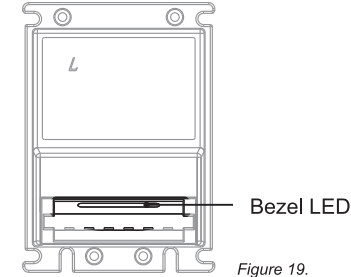


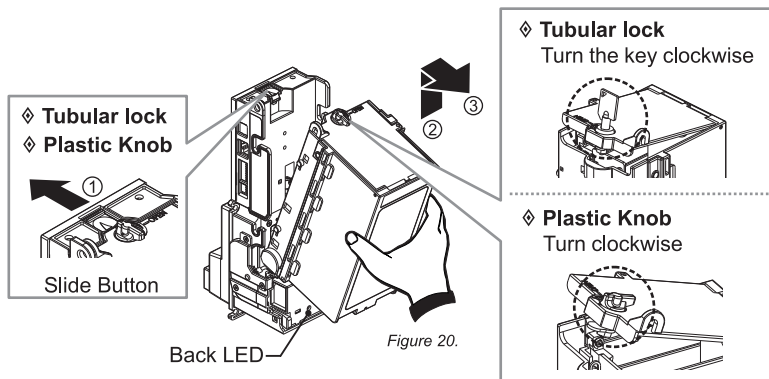
Table 2.

LED Flashes		Status	Corrective Actions
Red	Green		
	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 figure 20), 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.
3+4		Out sensor error.	Inspect the foreign objects on sensor or bill path 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.

## 7-2. Back LED Errors

Table 3.

LED Flashes	Status	Corrective Actions
Green		
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 figure 20), 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.
3+4	Out sensor error.	Inspect the foreign objects on sensor or bill path 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.



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