



Bill Acceptor

PA7E

Installation Guide



International Currency Technologies Corp.

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1. Introduction

1-1. Overview

PA7E is a bill acceptor which features as high-security with acceptance rate up to 96% or even greater. The built-in USB port allows convenient firmware upgrades via USB flash drive.

1-2. Features

- Easy Maintenance.
- Four-way bill insertion acceptance.
- Bill box capacity: 400, 500 and 800 bills available.
- Convenient firmware upgrade via USB flash drive.
- Auto-calibration technology and dual-color identification LED.

2. Specifications

General

Acceptance Rate	96% or greater
<i>Note: The acceptance rate excludes notes that are dirty, wet, broken or wrinkled.</i>	
Bill Insertion	Four-way acceptable
Transaction Speed	Approx. 3 seconds to stack
Interface	Pulse, ICT Protocol, NISR, 5V Enable

Electrical

Power Source	12V DC(10.8~13.2V DC) 117V AC(105.3~128.7V AC)
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Power Consumption

12V DC Standby : 0.3A, 3.6W
 Operation: 0.9A, 11W
 Maximum: 2.5A, 30W
 117VAC Standby : 0.05A, 5.85W
 Operation: 0.112A, 13W
 Maximum: 0.3A, 35W

Operation Environment

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

Mechanical**Bill Width**

62~72mm

Bill Capacity

Approx. 400 bills(300~400)
 500 bills(400~500)
 800 bills(700~800)

Weight

Approx. 1.3kg

Outline Dimension

Refer to page.4



Installation: Indoor use only!!

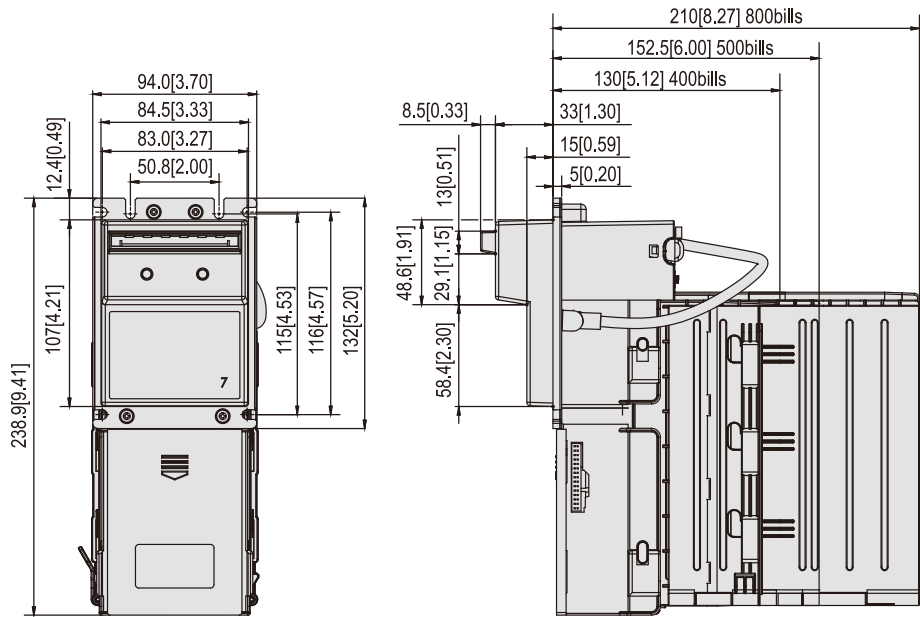
3. Packing List**Main**

Bill Acceptor

Accessory

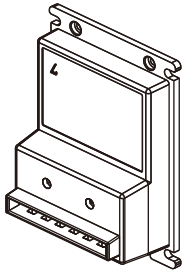
Harness: Refer to 5-1
 PA7E Installation Guide
 PA7E DIP Switch Setting Guide

4. Dimension



Unit:mm[inch]
4 FIG.01

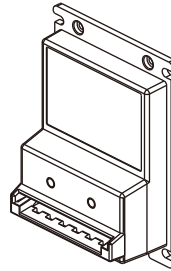
4-1. Bezel Style



4-1 FIG.01

Compact Bezel

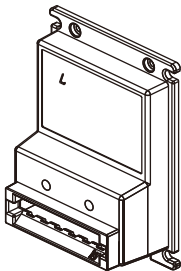
Part Number: A2209X00-R



4-1 FIG.02

Bezel (Step Style)

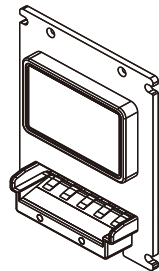
Part Number: A3025X00-R



4-1 FIG.03

Two Sided Bezel

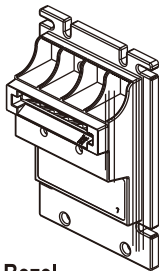
Part Number: A2422X00-R



4-1 FIG.04

Horizontal Stacker Bezel

Part Number: A2426X-R



4-1 FIG.05

TOB Bezel

Part Number: A2582X00-R

5. Installation

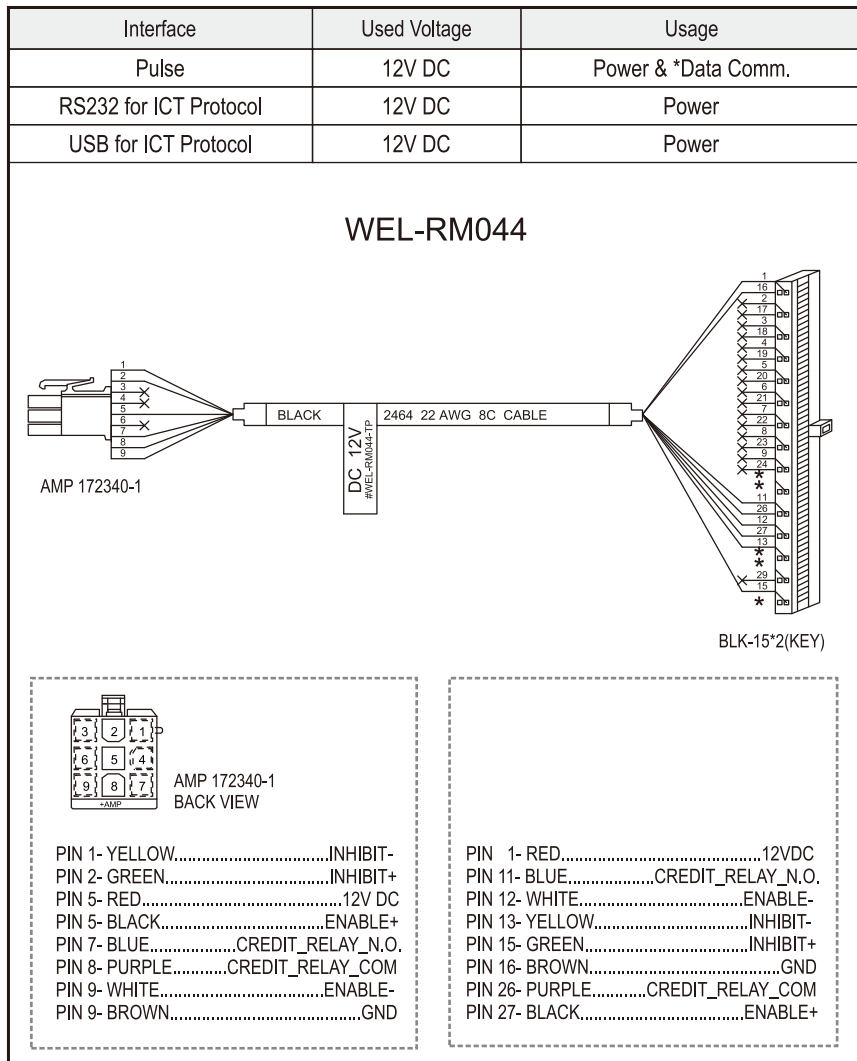
5-1. Harness Application

5-1 TABLE 01

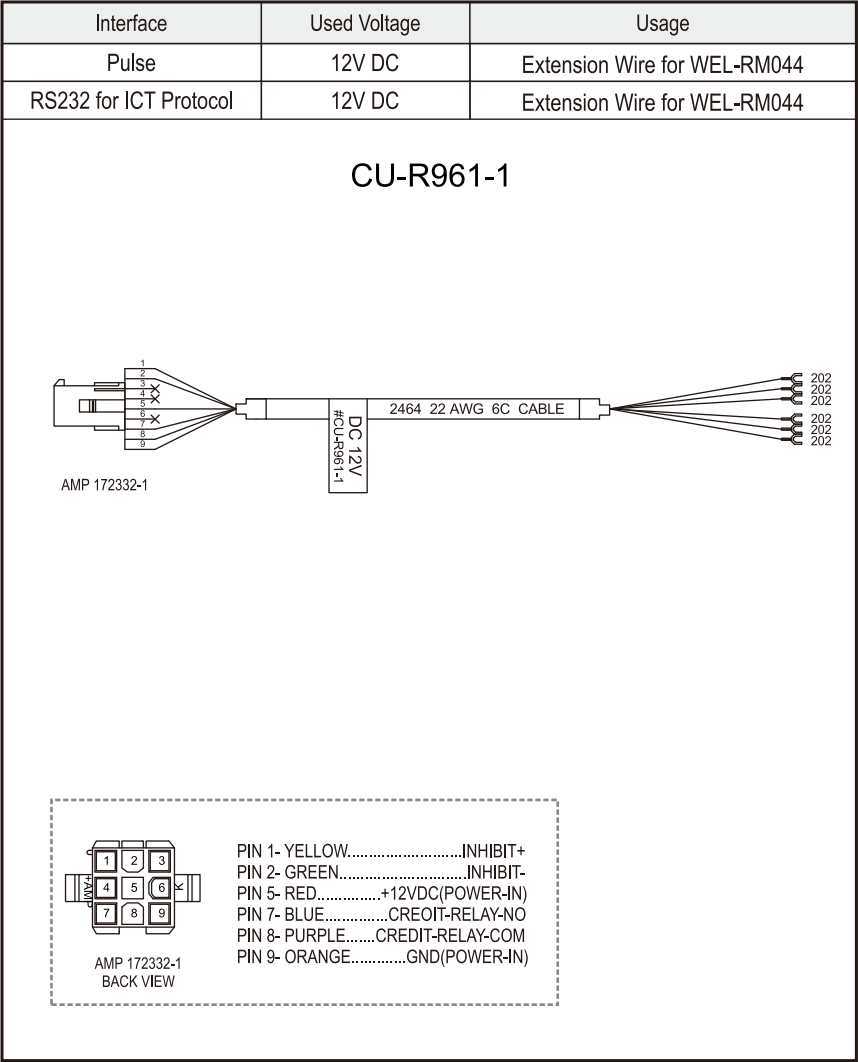
Interface		Used Voltage	Usage	Harness	Page
Pulse		12VDC	Power & *Data Com.	WEL-RM044	7
			Extension Wire	CU-R961-1	8
		117VAC	Power & *Data Com.	WEL-RM045	9
			Extension Wire	WEL-RM012	10
Pulse+5V Enable		117VAC	Power & *Data Com.	WEL-RM047	11
			Extension Wire	WEL-RM018	12
NISR		117VAC	Power & *Data Com.	2-BA-RM046	13
ICT Protocol	RS232	12V DC	Power	WEL-RM044	7
			Extension Wire	CU-R961-1	8
			*Data Comm.	WEL-RV706-1 or 2-BA-RV706	14
		117V AC	Power	WEL-RM045	9
			Extension Wire	WEL-RM012	10
			*Data Comm.	WEL-RV706-1 or 2-BA-RV706	14
	USB	12V DC	Power	WEL-RM044	7
		117V AC	Power	WEL-RM045	9
		5V DC	*Data Com.	WEL-RHP57 (Optional)	15

*Data Com. : Data Communication.

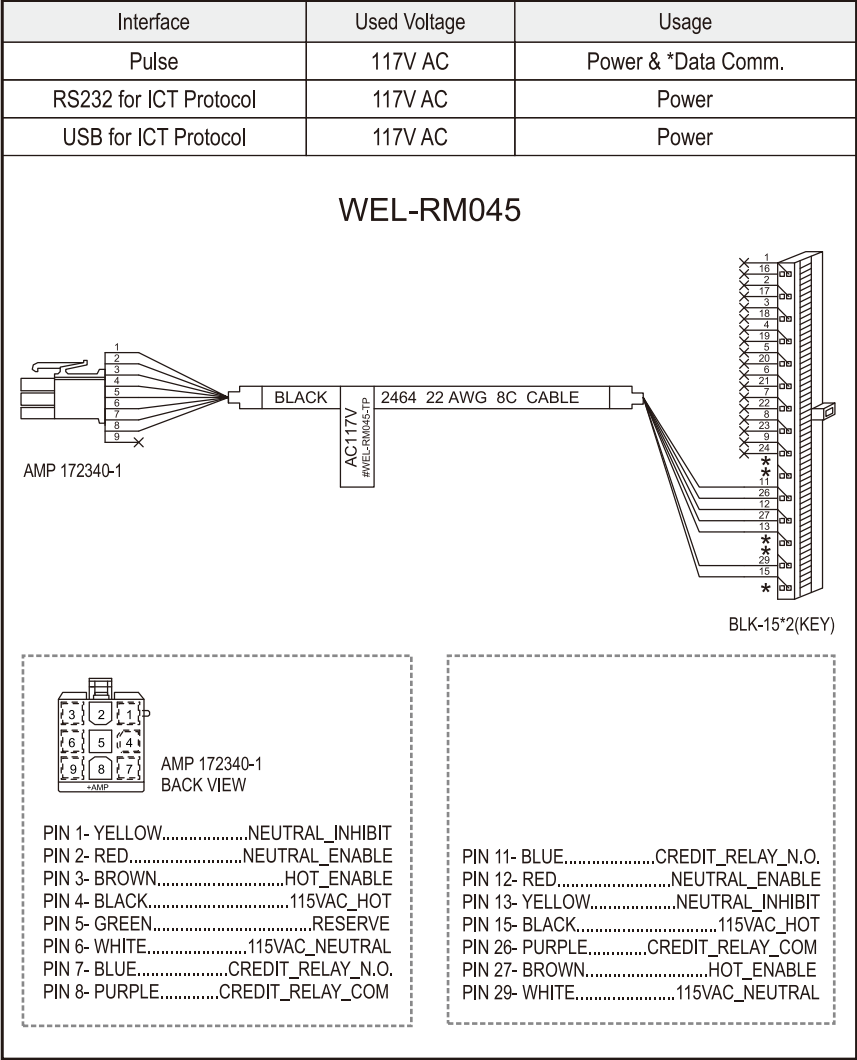
5-1 FIG.01



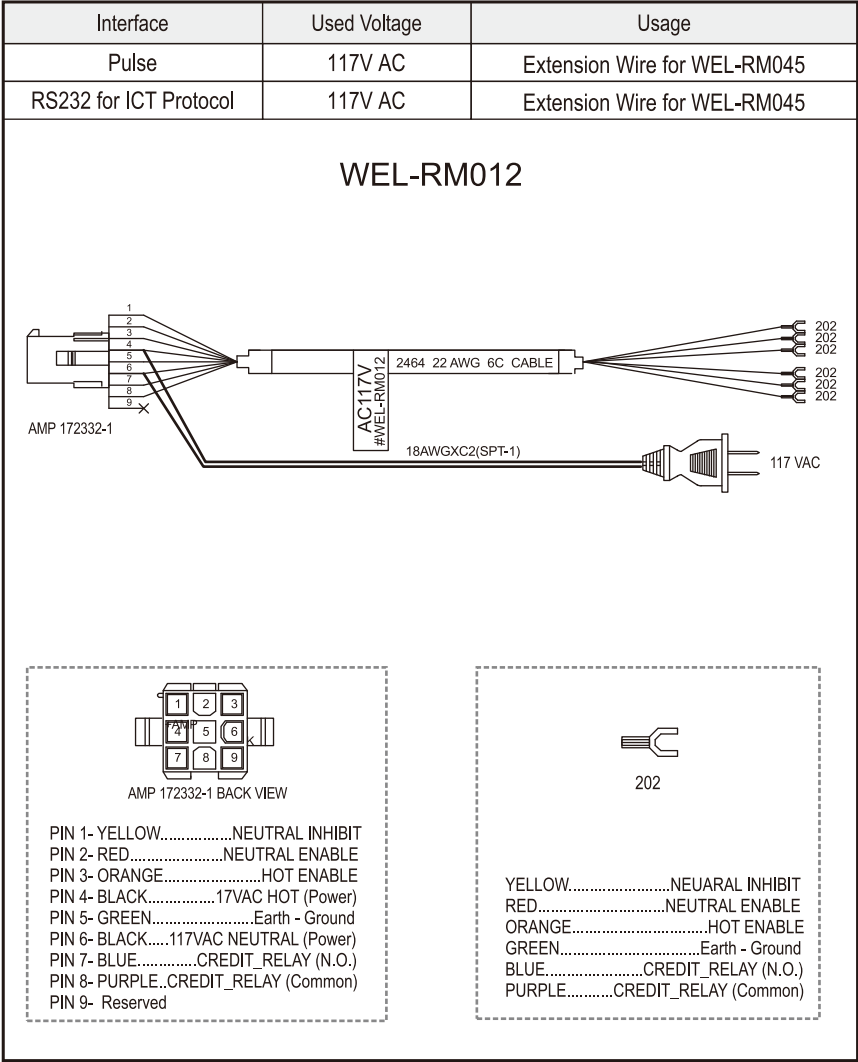
5-1 FIG.02



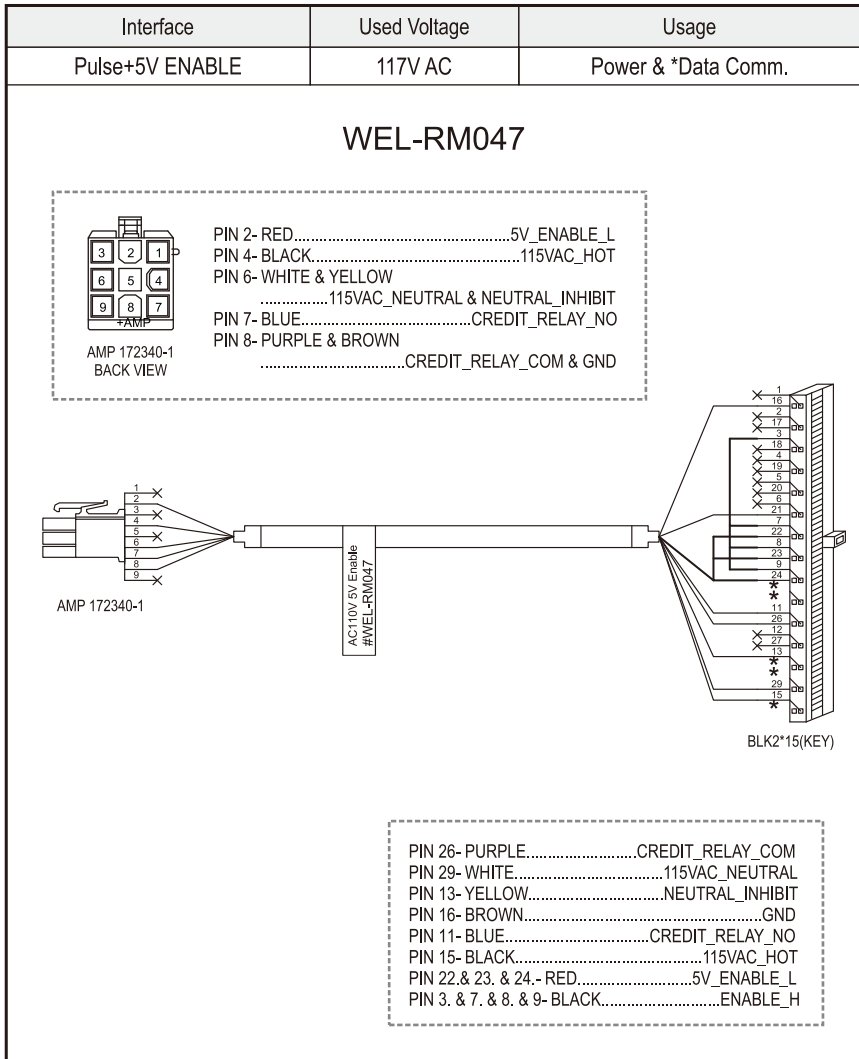
5-1 FIG.03



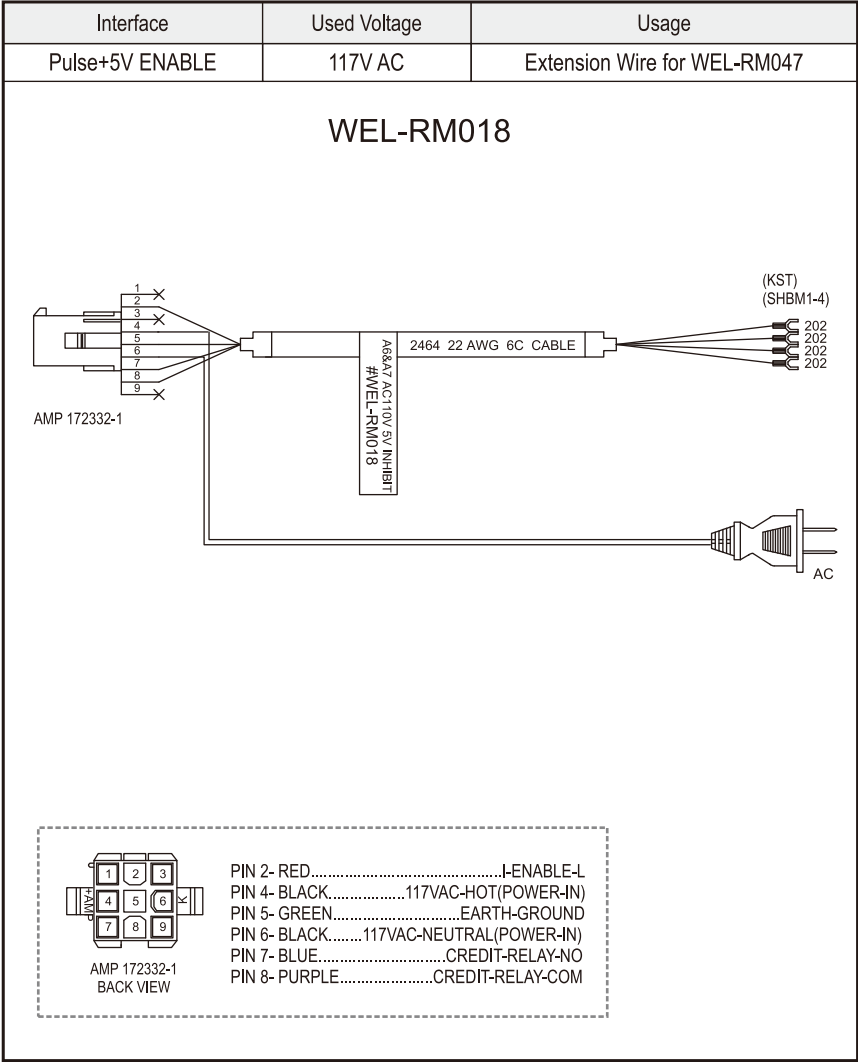
5-1 FIG.04



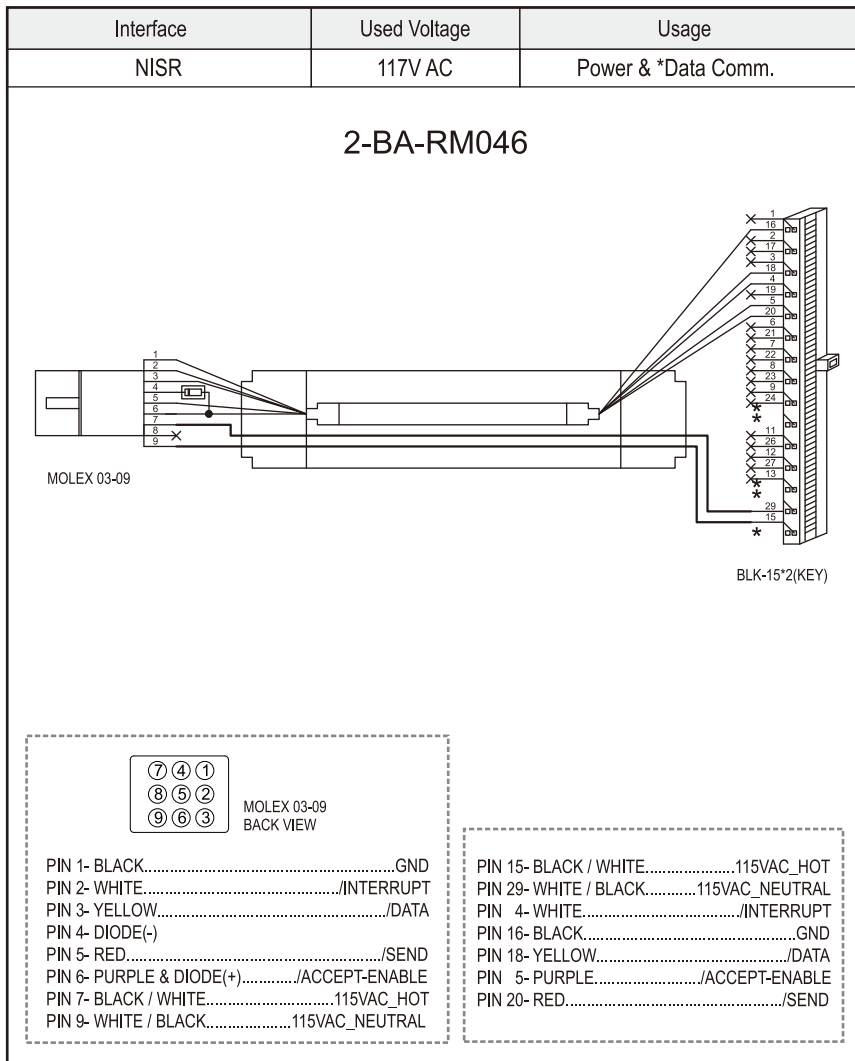
5-1 FIG.05



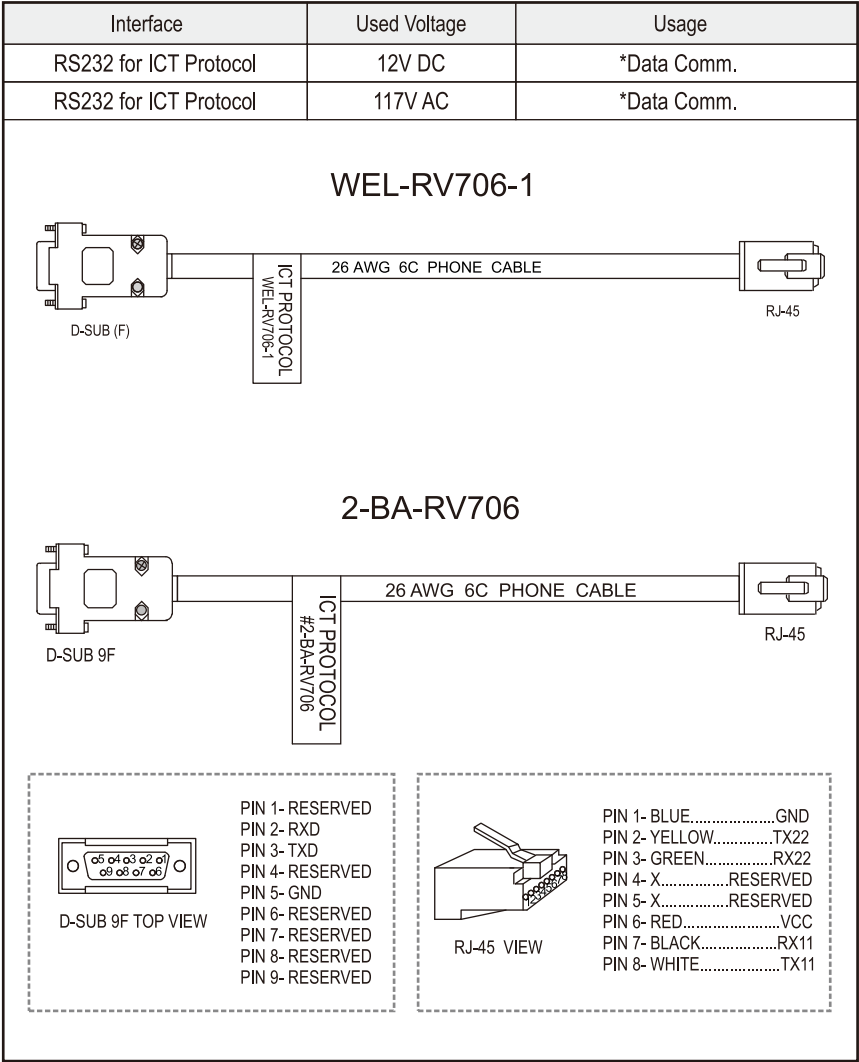
5-1 FIG.06



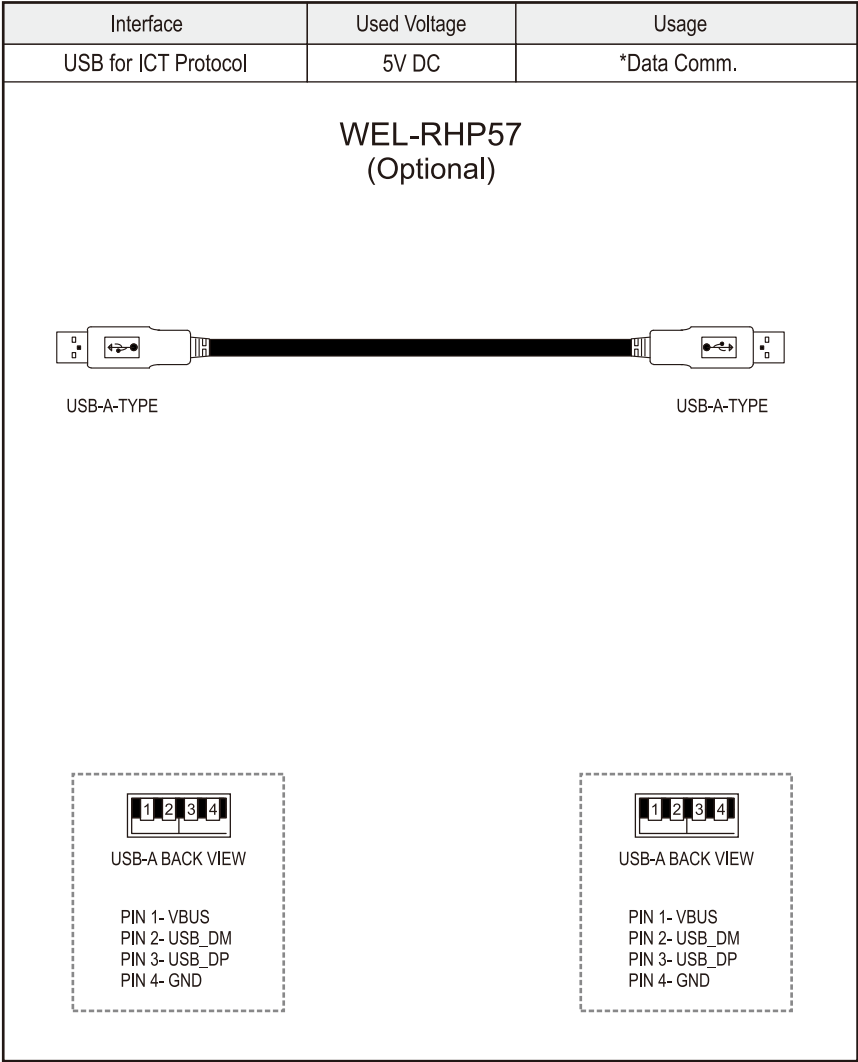
5-1 FIG.07



5-1 FIG.08



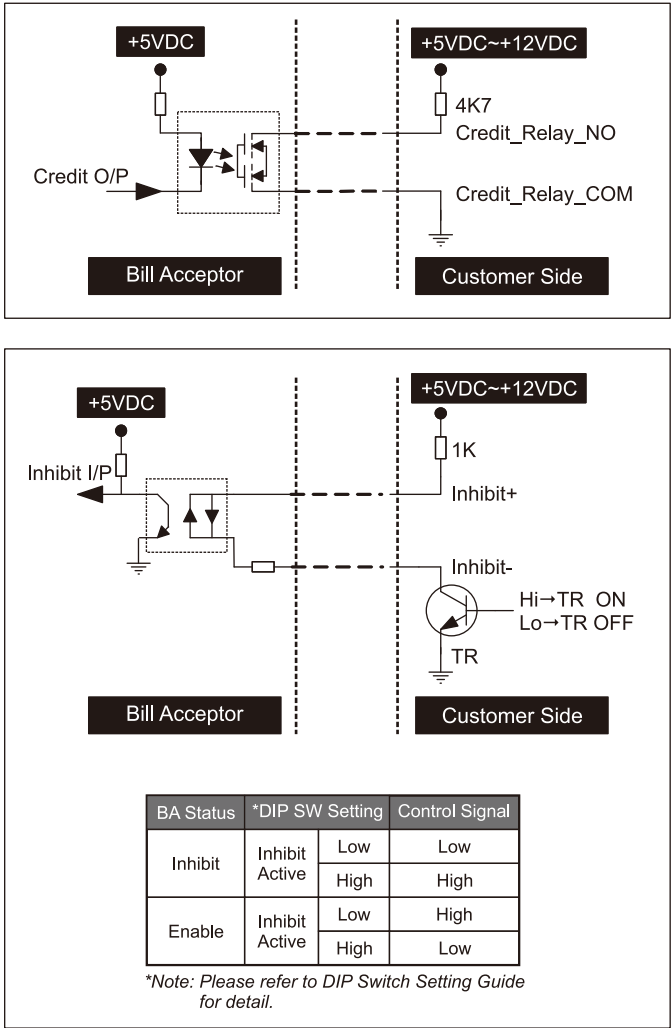
5-1 FIG.09



5-1-1. I/O Circuit

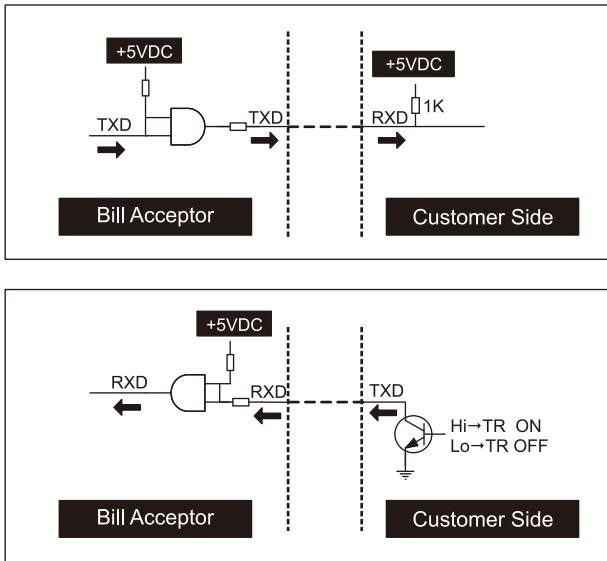
Pulse Interface.

5-1-1 FIG.01



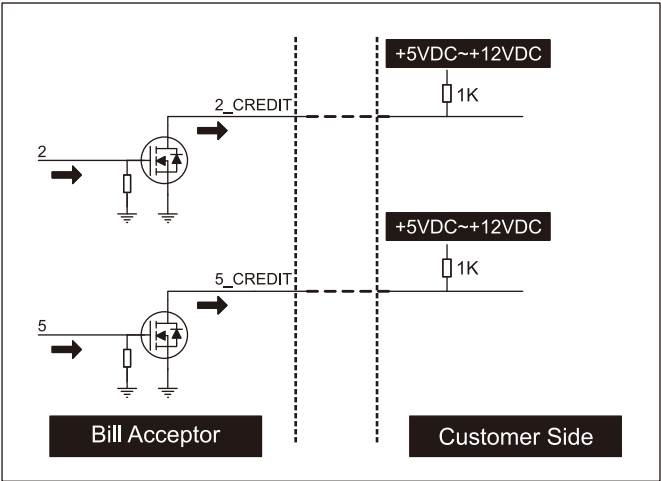
ICT Protocol Interface.

5-1-1 FIG.02



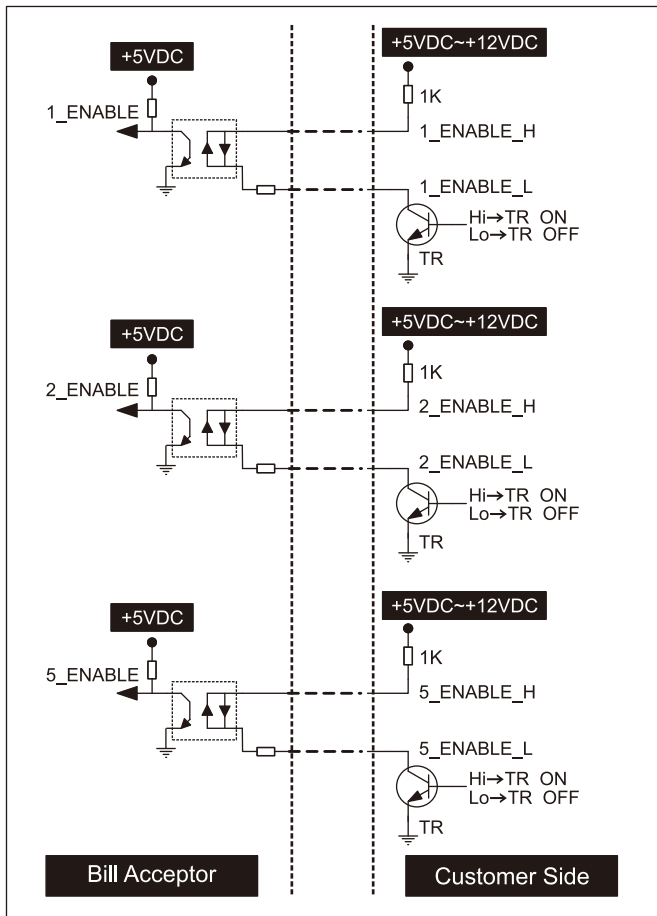
5V Enable Interface-1.

5-1-1 FIG.03-1



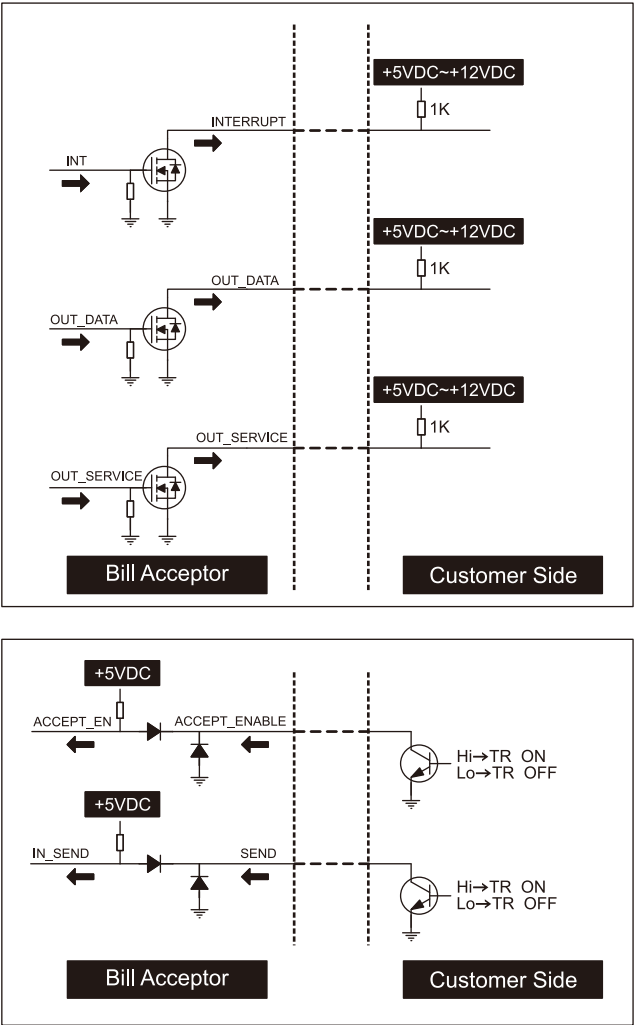
5V Enable Interface-2.

5-1-1 FIG.03-2



NISR Interface.

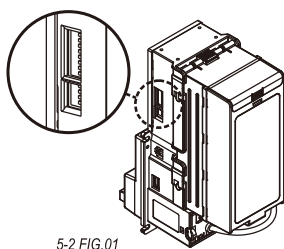
5-1-1 FIG.04



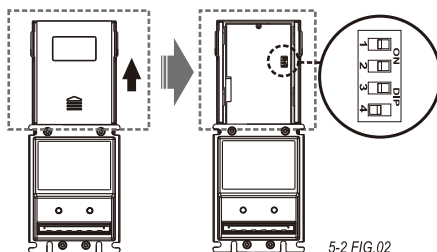
5-2. DIP Switch Setting

There are two serial DIP switches which are located on the side of PA7E(as FIG.01). According to different currencies which are used by users, DIP switch settings could be varied to fit users' needs. Besides, there's also a serial DIP switches on CPU board inside of PA7E for interface settings (as FIG.02).

Please refer to "PA7E DIP Switch Setting Guide" in the package for more details.



5-2 FIG.01



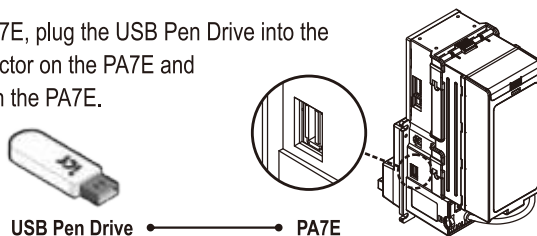
5-2 FIG.02

5-3. Firmware Download and Upgrade

Step 1. Put the "A7Exxx.bin" file into your USB Pen Drive.



Step 2. Turn off PA7E, plug the USB Pen Drive into the USB connector on the PA7E and then turn on the PA7E.



Step 3. The LED in the front side of bezel will flash twice, then remove the USB Pen Drive from PA7E.

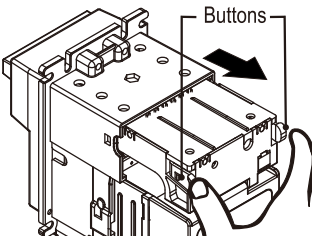
Step 4. Wait for about 30sec., Then PA7E will automatically reset and standby for normal operation.

6. Maintenance

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

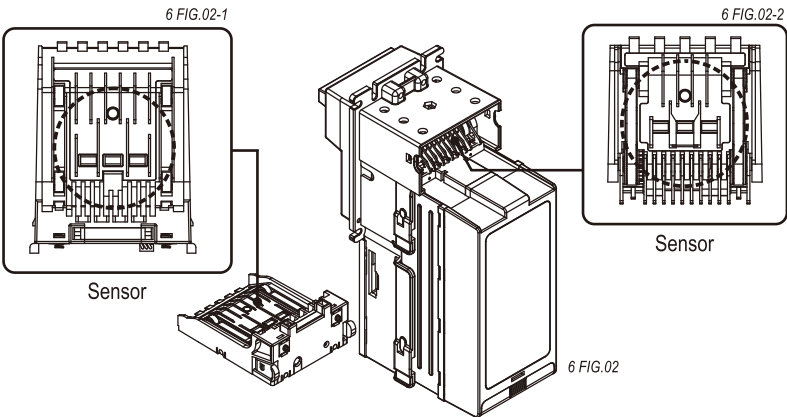
To clean the internal parts:

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



6 FIG.01

- 2. 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, Volatile liquid.

7. Troubleshooting

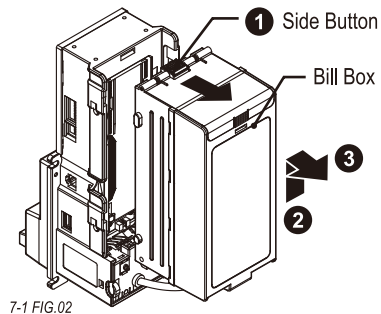
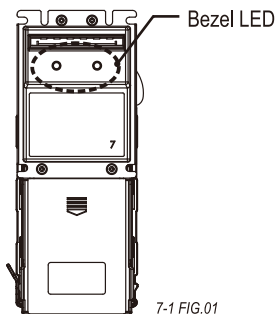
7-1. Bezel LED Errors

7-1 TABLE 01

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

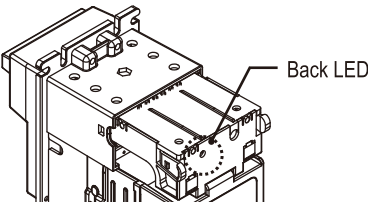
7-1 TABLE 02

LED Flashes	Status	Correct Actions
RED		
1	Bill jammed.	Remove the bill box by sliding the top button and the bill path(as 7-1 FIG.02), 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	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.

7-2. Back LED Errors



7-2 TABLE 01

LED Flashes	Status	Correct Actions
RED		
1	Bill jammed.	Remove the bill box by sliding the top button and the bill path(as 7-1 FIG.02), 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	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.

7-3. USB Firmware Upgrade LED Errors

7-3 TABLE 01

LED Flashes	Status	Correct Actions
RED		
1	USB Firmware Upgrade Errors.	1. Make sure the USB if you can be normal to read. 2. Make sure USB in the program are correct.

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



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