

**ICT**



Bill Acceptor

**A6E/V6E** Series

Installation Guide

**International Currency Technologies Corp.**

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## 1. Introduction

### 1-1. Overview

A6E/V6E Series 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.
- Auto-calibrating.
- Numerous interfaces available.
- Easily Install & Maintain.

## 2. Specifications

### **General**

Acceptance Rate	96 % or greater
Bill Insertion	Four way acceptable
Transaction Speed	Approx. 3 seconds to stack
Interface	<b>A6E</b> STD Pulse, 5V ENABLE, ICT Protocol
	<b>V6E</b> MDB

### **Electrical**

Power Source	<b>A6E</b> 12V DC(11.4~12.6V DC) 117V AC(105.3~128.7V AC)
	<b>V6E</b> 24V/34V DC(20V~42.5V DC)

Power Consumption	<b>A6E</b> 12V DC	Standby : 0.3A, 4W Operation: 0.9A, 11W Maximum: 2.6A, 32W
	117V AC	Standby : 0.06A, 7W Operation: 0.112A, 14W Maximum: 0.4A, 47W
	<b>V6E</b> 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%~85% RH(no condensation)
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**Mechanical**

Bill Width Accepted	60~67 mm
Bill Capacity	Approx. 100 bills( 40~ 140) 300 bills( 200~ 300) 500 bills( 300~ 500) 550 bills( 440~ 640) 800 bills( 750~ 850) 1000 bills(1000~1140)

Weight	Approx. 2kg(shipping)
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Installation	Indoor
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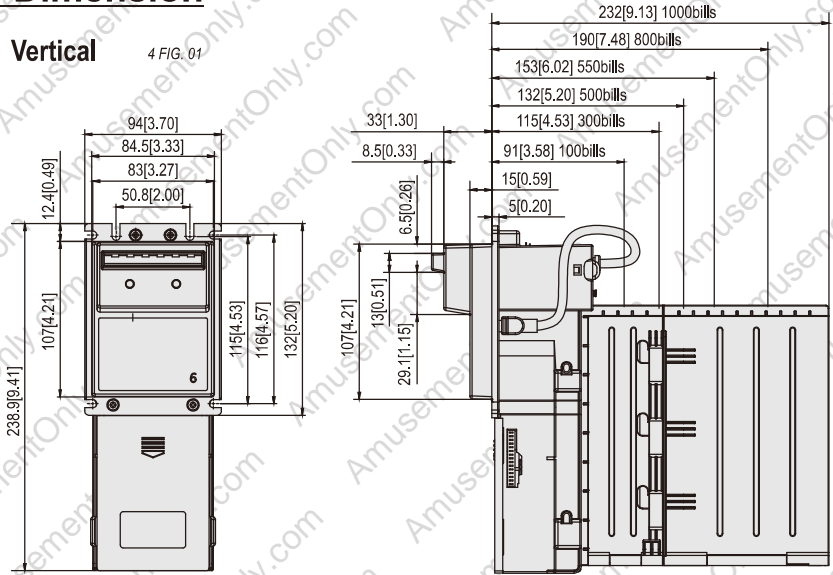
**3. Packing List**

Main	Bill Acceptor
Accessory	Harnesses: Refer to 5-1 A6E/V6E Installation Guide A6E/V6E Switches Setting Guide

# 4. Dimension

## Vertical

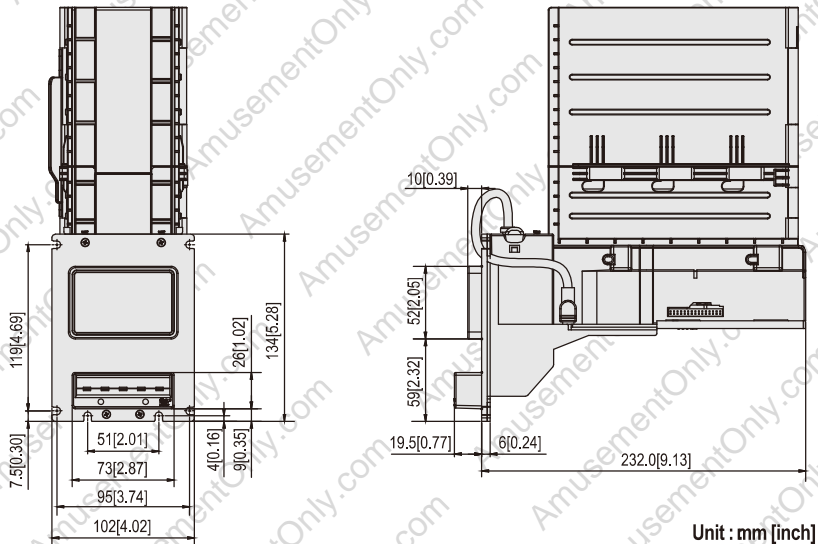
4 FIG. 01



Unit : mm [inch]

## Horizontal

4 FIG. 02

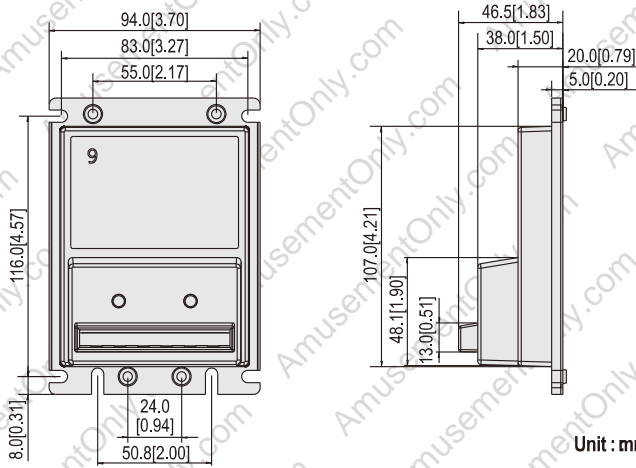


Unit : mm [inch]

### 4-1. Bezel Styles

#### Standard bezel

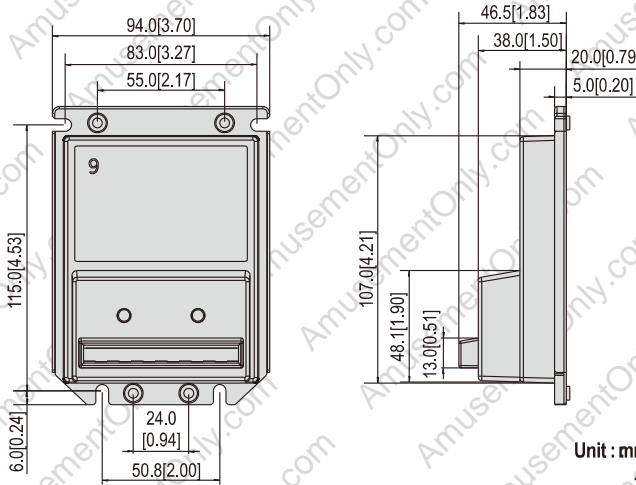
Part Number: 3RMB-FAC01001



Unit : mm [inch]  
4-1 FIG.01

#### Fitted bezel

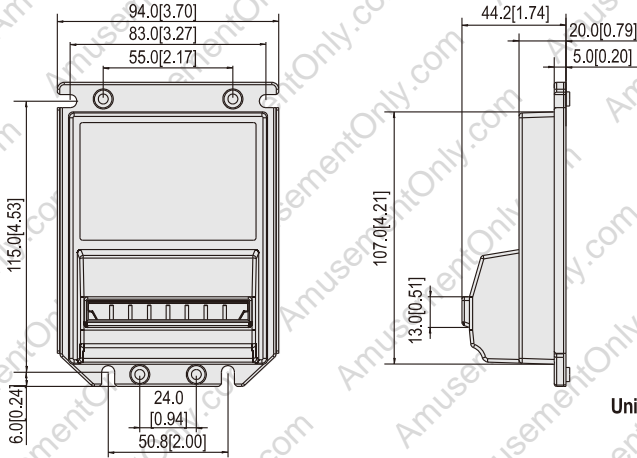
Part Number: 3RMB-FAC02000



Unit : mm [inch]  
4-1 FIG.02

**Anti-coin Bezel**

Part Number: 3RMB-FAC16002

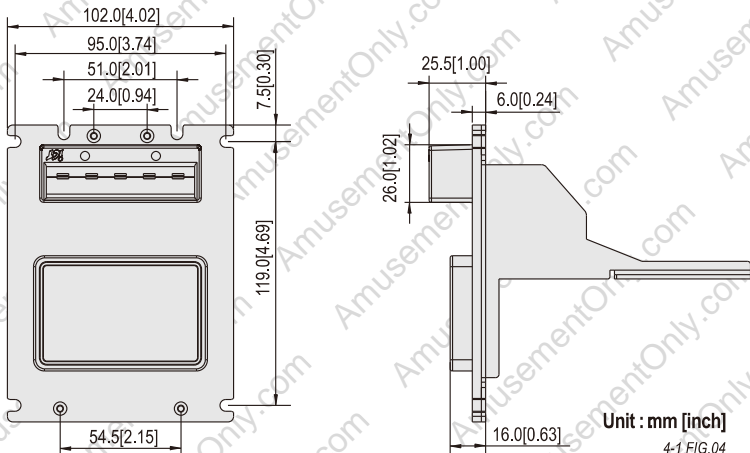


Unit : mm [inch]

4-1 FIG.03

**Horizontal Bezel**

Part Number: 3RMB-FAC10000

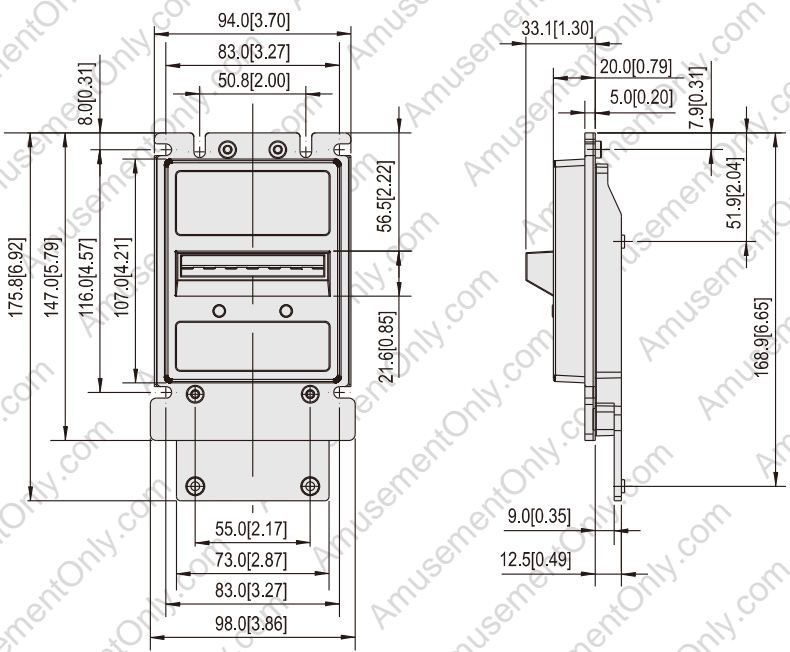
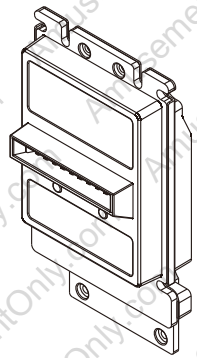
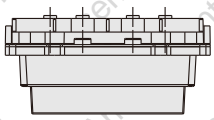


Unit : mm [inch]

4-1 FIG.04

For VFM bezel

Part Number: 3RMB-FAC23000



Unit : mm [inch]

4-1 FIG.05

## 5. Installation

### 5-1. Harness Application

5-1 TABLE 01

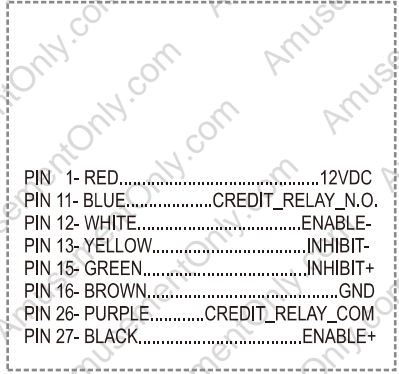
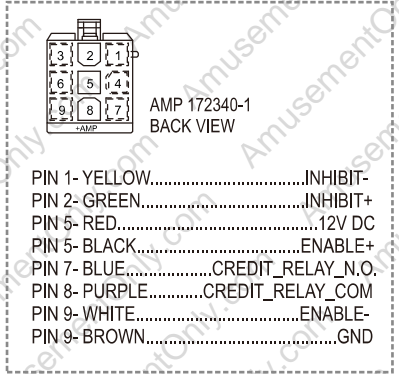
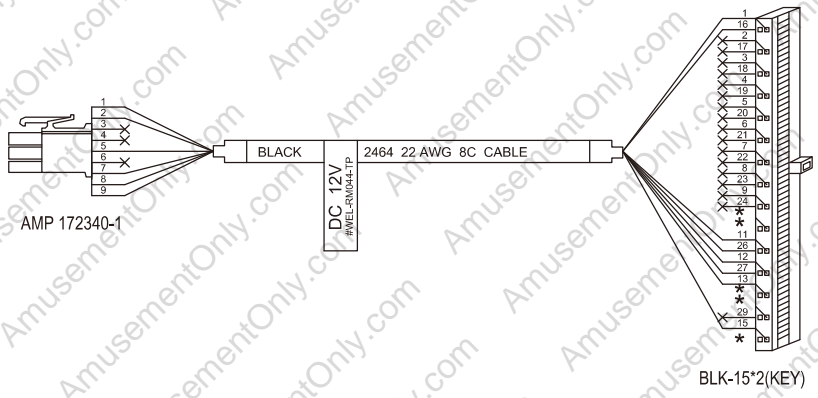
Model	Interface	Used Voltage	Usage	Harness	Page
<b>A6E</b>	STD Pulse	12V DC	Power & *Data Comm.	WEL-RM044	9
			Extension Wire	CU-R961-1	10
		117V AC	Power & *Data Comm.	WEL-RM045	11
			Extension Wire	WEL-RM012	12
	ICT Protocol (RS232)	12V DC	Power	WEL-RM044	9
			Extension Wire	CU-R961-1	10
			*Data Comm.	WEL-RV706-1 or 2-BA-RV706	15
		117V AC	Power	WEL-RM045	11
			Extension Wire	WEL-RM012	12
			*Data Comm.	WEL-RV706-1 or 2-BA-RV706	15
	5V Enable	117V AC	Power & *Data Comm.	WEL-RM047	13
			Extension Wire	WEL-RM018	14
<b>V6E</b>	MDB	24V/34V DC	Power & *Data Comm.	WEL-RM006	16

\*Data Comm. : Data Communication.

5-1 FIG.01

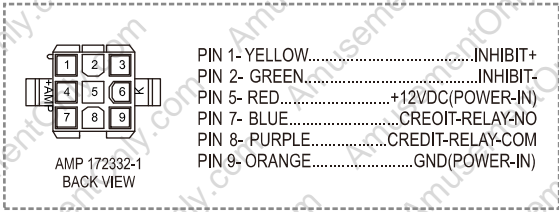
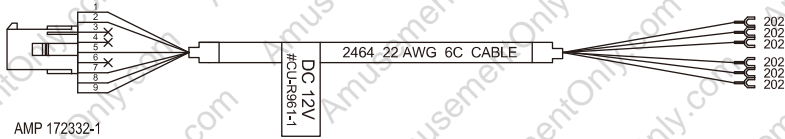
Interface	Used Voltage	Usage
STD Pulse	12V DC	Power & *Data Comm.
ICT Protocol (RS232)	12V DC	Power

WEL-RM044



Interface	Used Voltage	Usage
STD Pulse	12V DC	Extension Wire for WEL-RM044
ICT Protocol (RS232)	12V DC	Extension Wire for WEL-RM044

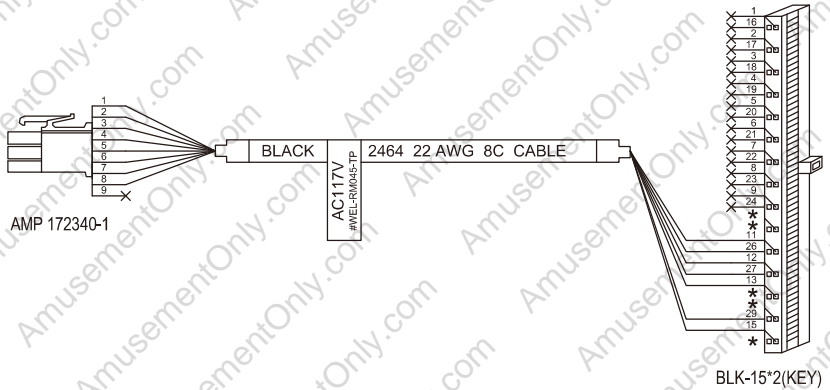
**CU-R961-1**



5-1 FIG.03

Interface	Used Voltage	Usage
STD Pulse	117V AC	Power & *Data Comm.
ICT Protocol (RS232 )	117V AC	Power

**WEL-RM045**



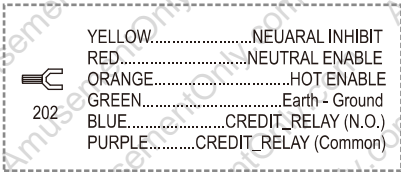
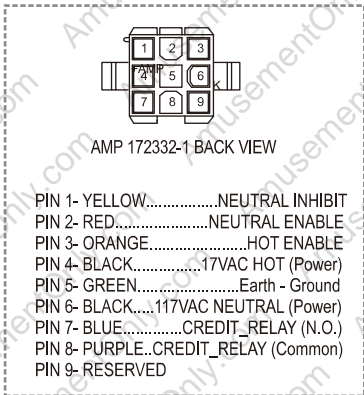
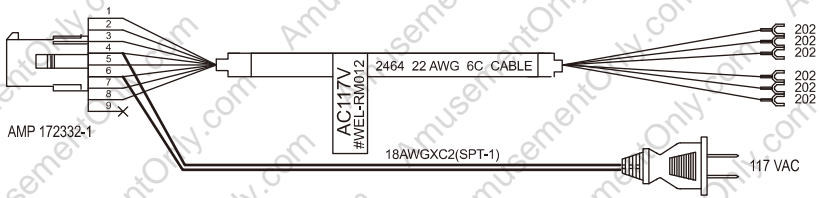
AMP 172340-1  
BACK VIEW

PIN 1- YELLOW.....NEUTRAL\_INHIBIT  
 PIN 2- RED.....NEUTRAL\_ENABLE  
 PIN 3- BROWN.....HOT\_ENABLE  
 PIN 4- BLACK.....115VAC\_HOT  
 PIN 5- GREEN.....RESERVE  
 PIN 6- WHITE.....115VAC\_NEUTRAL  
 PIN 7- BLUE.....CREDIT\_RELAY\_N.O.  
 PIN 8- PURPLE.....CREDIT\_RELAY\_COM

PIN 11- BLUE.....CREDIT\_RELAY\_N.O.  
 PIN 12- RED.....NEUTRAL\_ENABLE  
 PIN 13- YELLOW.....NEUTRAL\_INHIBIT  
 PIN 15- BLACK.....115VAC\_HOT  
 PIN 26- PURPLE.....CREDIT\_RELAY\_COM  
 PIN 27- BROWN.....HOT\_ENABLE  
 PIN 29- WHITE.....115VAC\_NEUTRAL

Interface	Used Voltage	Usage
STD Pulse	117V AC	Extension Wire for WEL-RM045
ICT Protocol (RS232)	117V AC	Extension Wire for WEL-RM045

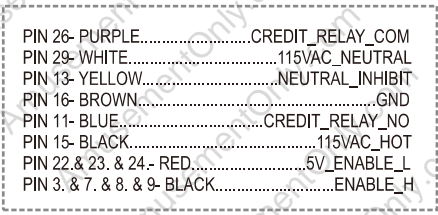
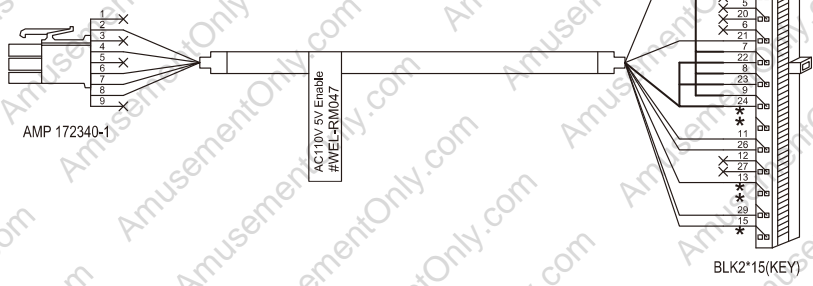
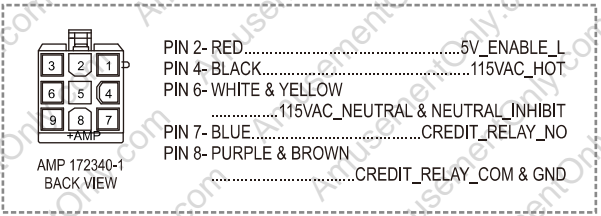
WEL-RM012

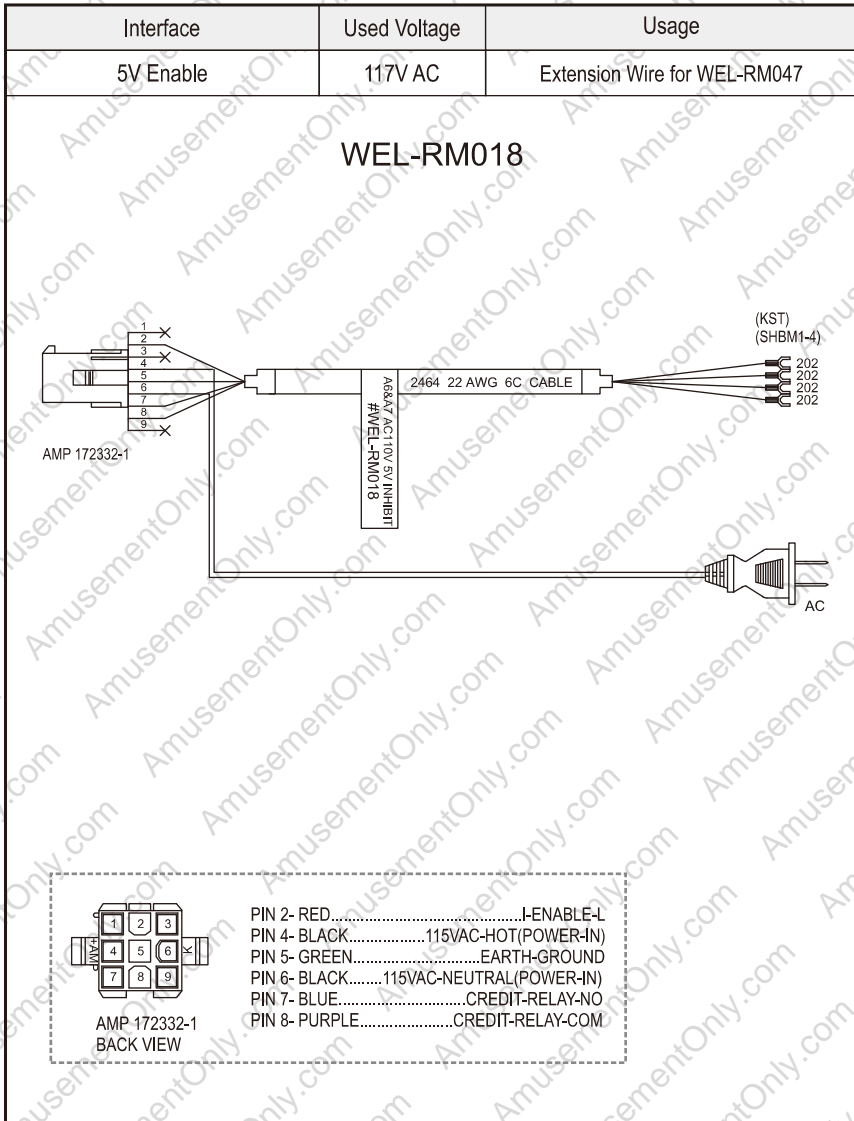


5-1 FIG.05

Interface	Used Voltage	Usage
5V Enable	117V AC	Power & *Data Comm.

### WEL-RM047

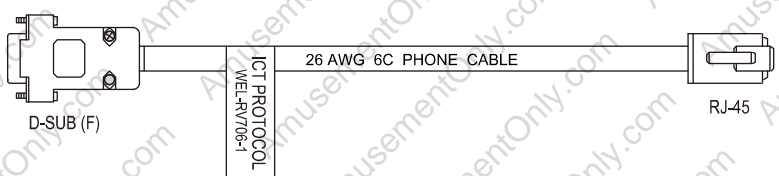




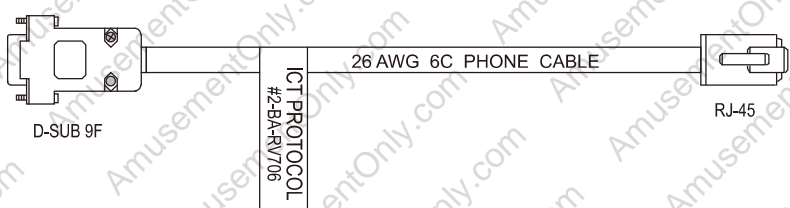
5-1 FIG.07

Interface	Used Voltage	Usage
ICT Protocol (RS232)	12V DC	*Data Comm.
	117V AC	*Data Comm.

**WEL-RV706-1**



**2-BA-RV706**

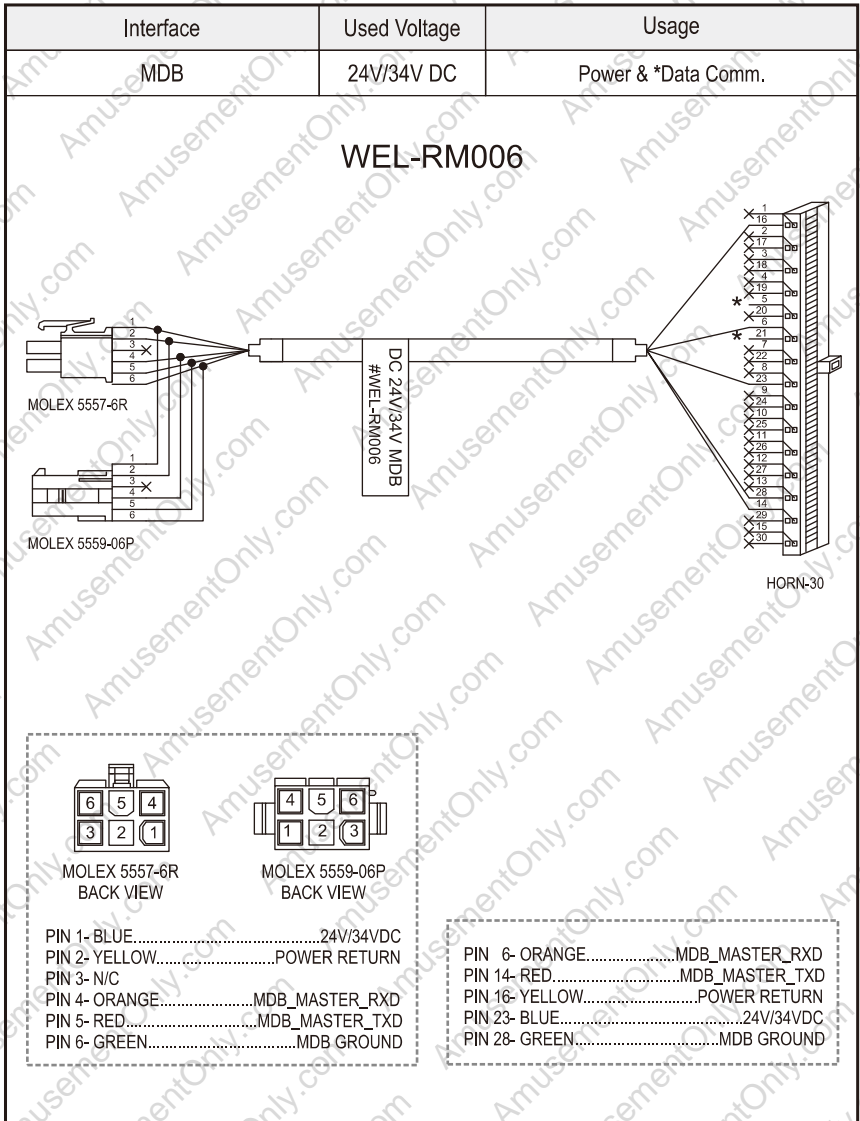


D-SUB 9F TOP VIEW

- PIN 1- RESERVED
- PIN 2- RXD
- PIN 3- TXD
- PIN 4- RESERVED
- PIN 5- GND
- PIN 6- RESERVED
- PIN 7- RESERVED
- PIN 8- RESERVED
- PIN 9- RESERVED

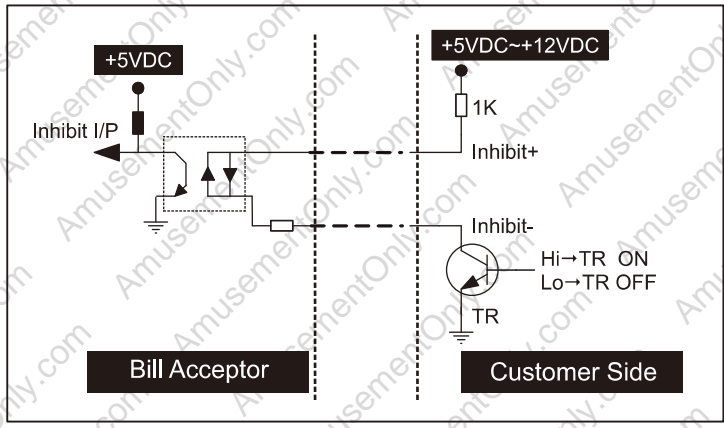
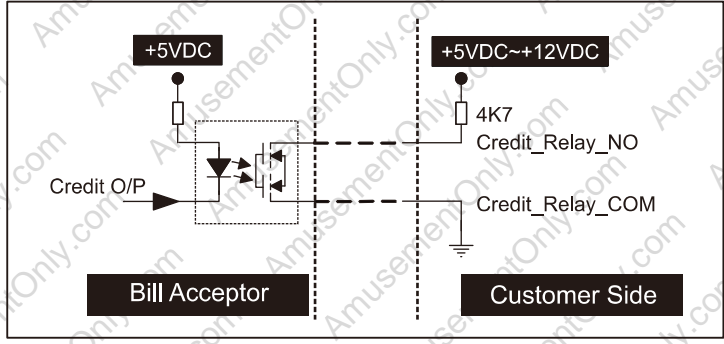
RJ-45 VIEW

- PIN 1- BLUE.....GND
- PIN 2- YELLOW.....TX22
- PIN 3- GREEN.....RX22
- PIN 4- X.....RESERVED
- PIN 5- X.....RESERVED
- PIN 6- RED.....VCC
- PIN 7- BLACK.....RX11
- PIN 8- WHITE.....TX11



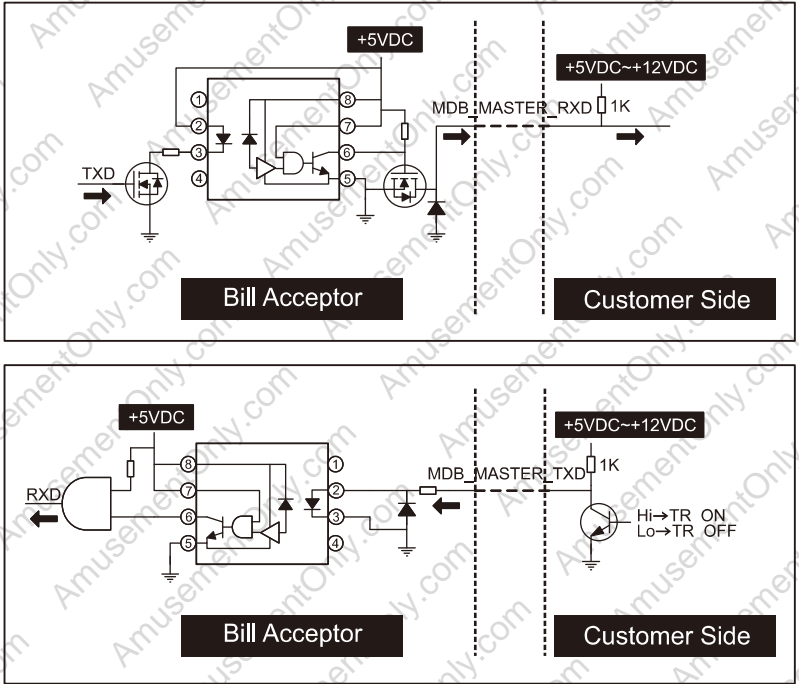
### 5-1-1. I/O Circuit Pulse Interface.

5-1-1 FIG. 01



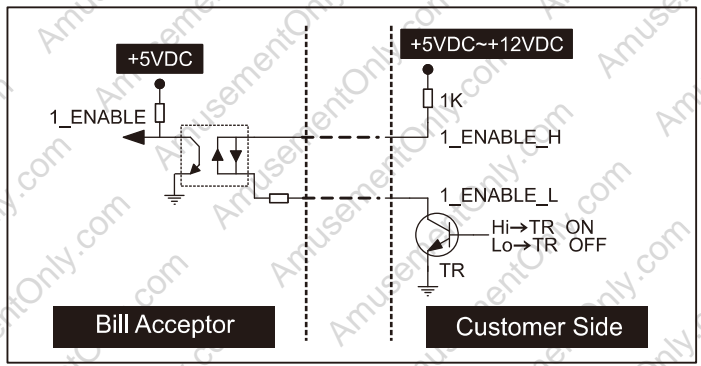
**MDB Interface.**

5-1-1 FIG. 02



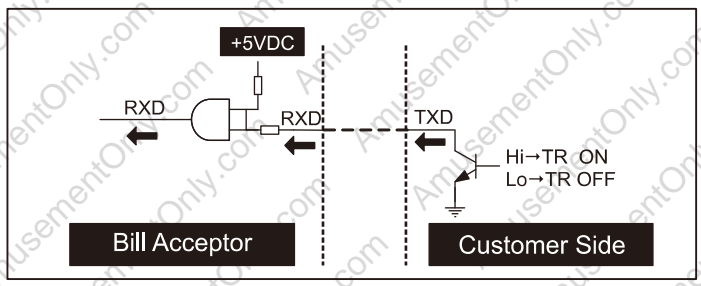
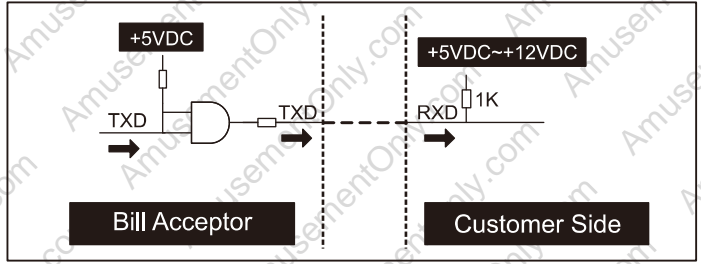
5V Enable Interface.

5-1-1 FIG. 03



ICT-Protocol Interface.

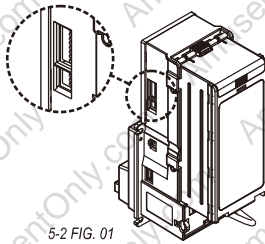
5-1-1 FIG. 04



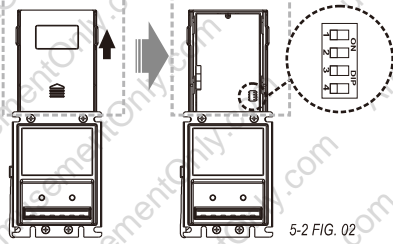
### 5-2. DIP Switch Setting

There are two serial DIP switches which are set on the side of A6E/V6E series(as FIG.01). 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 FIG.02).

Please refer to "A6E/V6E series DIP Switch Setting Guide" in the package for more details.



5-2 FIG. 01



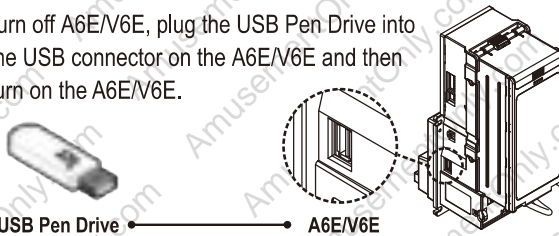
5-2 FIG. 02

### 5-3. Firmware Download and Upgrade

Step 1. Put the "A6E/V6Exxx.bin" file into your USB Pen Drive.



Step 2. Turn off A6E/V6E, plug the USB Pen Drive into the USB connector on the A6E/V6E and then turn on the A6E/V6E.

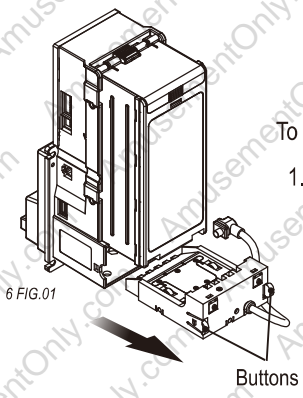


Step 3. The LED in the front side of bezel will flash twice, then remove the USB Pen Drive from A6E/V6E.

Step 4. Wait for about 30sec., Then A6E/V6E will automatically reset and standby for normal operation.

## 6. Maintenance

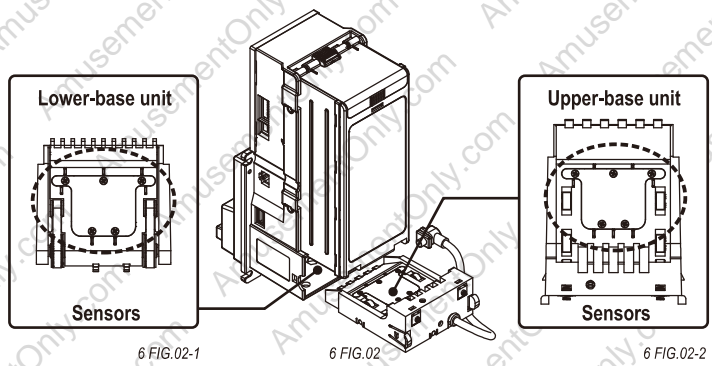
To make sure the bill acceptor always works smoothly, please clean the internal parts every two weeks to every two months.



To clean the internal parts:

1. Press the buttons on the sides of bill path unit 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>			
	<table border="1"> <tr> <td style="padding: 5px;"><b>Recommended</b></td> <td style="padding: 5px;"><b>Mild, non-abrasive, soap water.</b></td> </tr> <tr> <td style="padding: 5px;"><b>DO NOT USE</b></td> <td style="padding: 5px;"><b>Organic solvent , Alcohol, Volatile liquid.</b></td> </tr> </table>	<b>Recommended</b>	<b>Mild, non-abrasive, soap water.</b>	<b>DO NOT USE</b>
<b>Recommended</b>	<b>Mild, non-abrasive, soap water.</b>			
<b>DO NOT USE</b>	<b>Organic solvent , Alcohol, Volatile liquid.</b>			

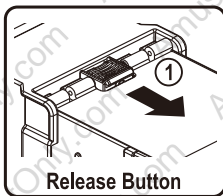
## 7. Troubleshooting

7 TABLE 01

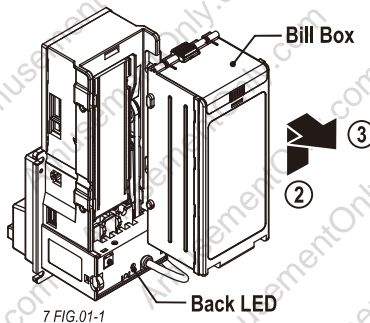
LED	Status	Corrective Actions
Green	White Card Calibration.	Please calibrate with ICT white calibration card.

7 TABLE 02

LED Flashes (Green)	Status	Corrective Actions
1	Bill jammed.	Remove the bill box by sliding the top button and the bill path unit (as 7 FIG.01), 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.
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 for foreign objects on bill path and clean.



7 FIG.01



7 FIG.01-1



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



Taiwan

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