



Bill Acceptor

A6 / V6

Installation Guide *Series*

International Currency Technologies Corp.

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1. Introduction

1-1. Overview

A6/V6 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	A6- STD Pulse, 5V ENABLE, ICT Protocol, Single price.
	V6- MDB

Electrical

Power Source	A6- 12V DC(11.4~12.6V DC) 117V AC(105.3~128.7V AC)
	V6- 24V/34V DC(20V~42.5V DC)

Power Consumption**A6- 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

V6- 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)

Mechanical**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)

Bill Width Accepted

60~67 mm

Weight

Approx. 2kg(shipping)

Installation

Indoor

3. Packing List**Main**

Bill Acceptor

Accessory

Harnesses: Refer to 5-1

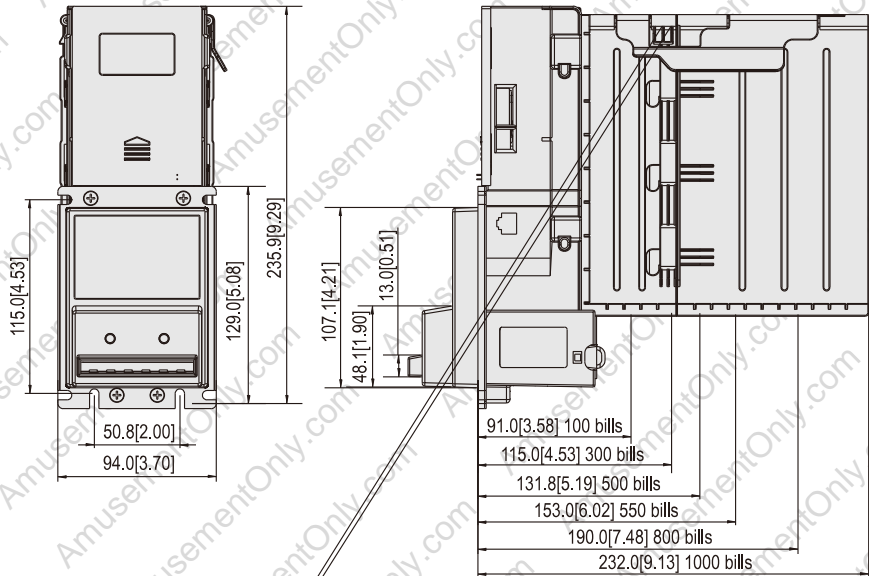
A6/V6 Installation Guide

A6/V6 Switches Setting Guide

A6/V6

4. Dimension

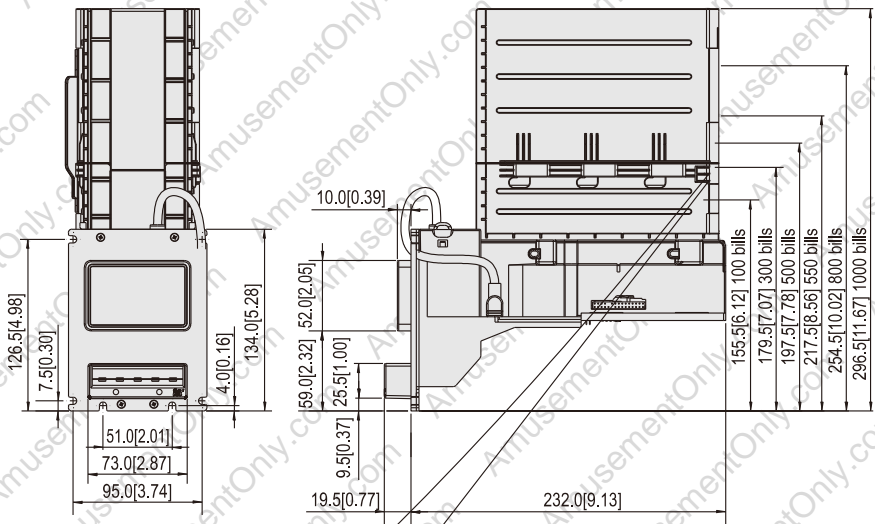
Vertical



Unit : mm [inch]

4 FIG. 01

Horizontal



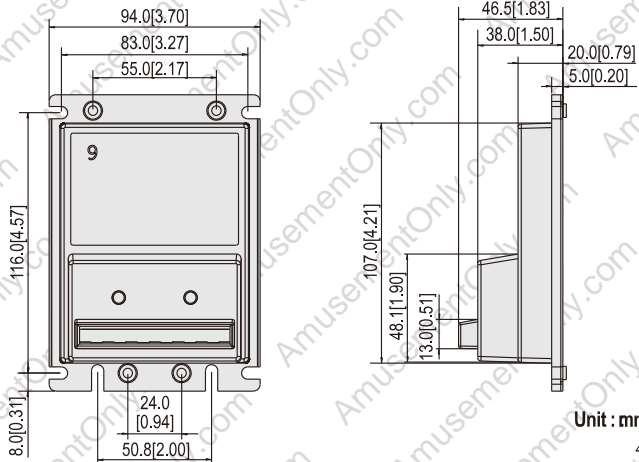
Unit : mm [inch]

4 FIG. 02

4-1. Bezel Styles

Standard bezel

Part Number: 3RMB-FAC01001

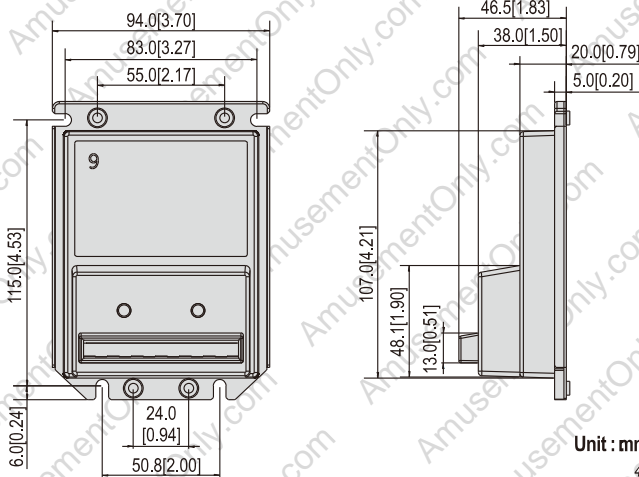


Unit : mm [inch]

4-1 FIG.01

Fitted bezel

Part Number: 3RMB-FAC02000

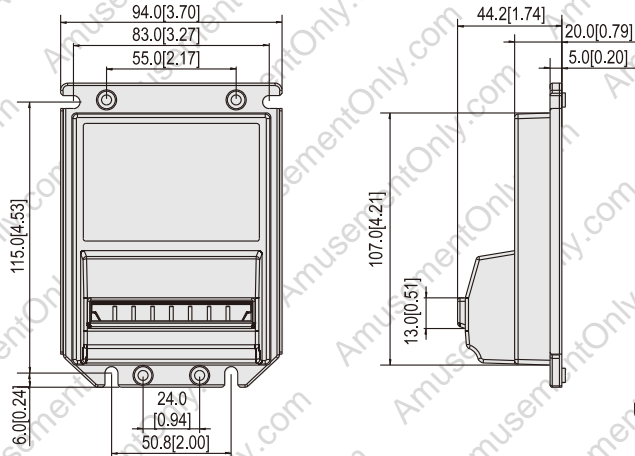


Unit : mm [inch]

4-1 FIG.02

Anti-coin Bezel

Part Number: 3RMB-FAC16002

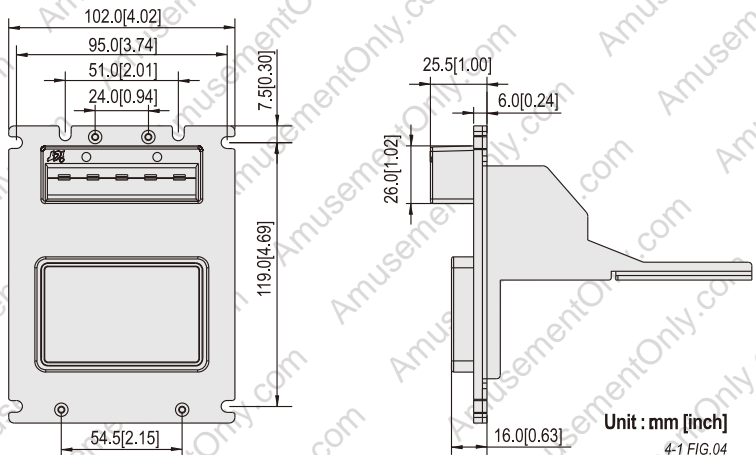


Unit : mm [inch]

4-1 FIG.03

Horizontal Bezel

Part Number: 3RMB-FAC10000



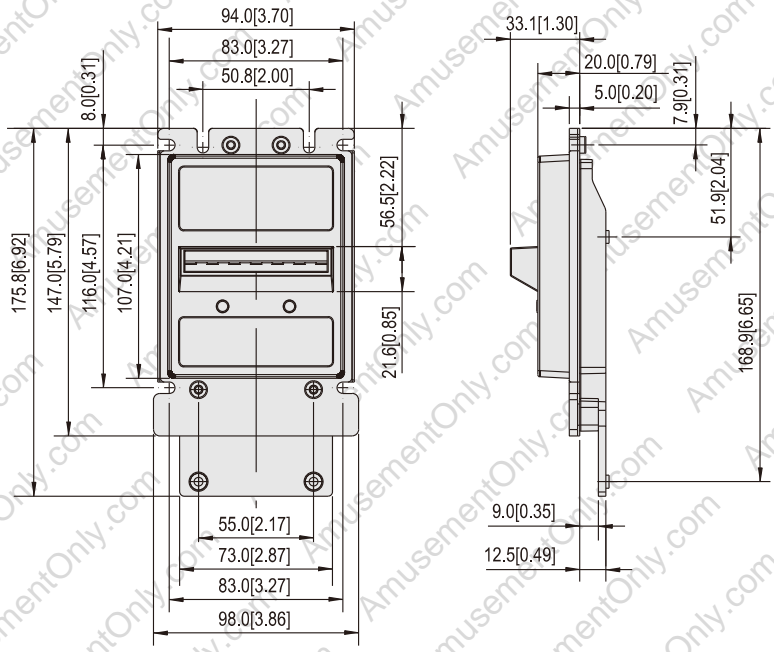
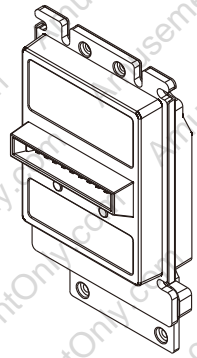
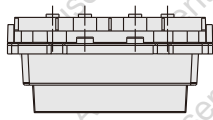
Unit : mm [inch]

4-1 FIG.04

A6/V6

For VFM bezel

Part Number: 3RMB-FAC23000



Unit : mm [inch]

4-1 FIG.05

5. Installation

5-1. Harness Application

5-1 TABLE 01

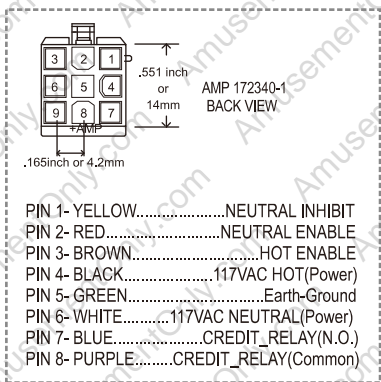
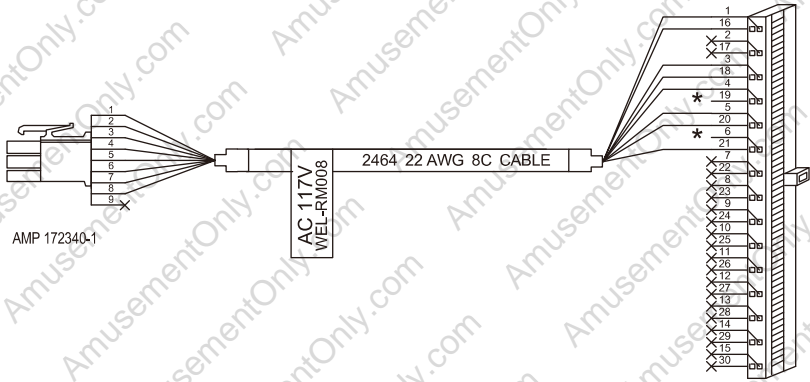
Model	Interface	Used Voltage	Usage	Harness	Page
A6	STD Pulse	117V AC	Power & *Data Comm.	WEL-RM008	10
			Extension Wire	WEL-RM012	11
		12V DC	Power & *Data Comm.	WEL-RM007	12
			Extension Wire	CU-R961-1	13
	5V Enable	117V AC	Power & *Data Comm.	WEL-RM017	14
			Extension Wire	WEL-RM018	15
	ICT Protocol (RS232)	12V DC	Power	WEL-RM007	12
			Extension Wire	CU-R961-1	13
			*Data Comm.	WEL-RV706-1 or 2-BA-RV706	16
		117V AC	Power	WEL-RM008	10
			Extension Wire	WEL-RM012	11
			*Data Comm.	WEL-RV706-1 or 2-BA-RV706	16
Single Price	117V AC	Power & *Data Comm.	WEL-RM031	18	
V6	MDB	24V/34V DC	Power & *Data Comm.	WEL-RM006	17

*Data Comm. : Data Communication.

5-1 FIG.01

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

WEL-RM008



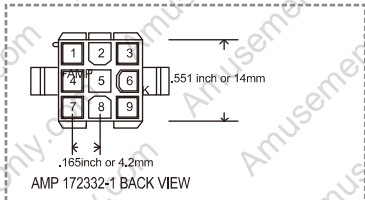
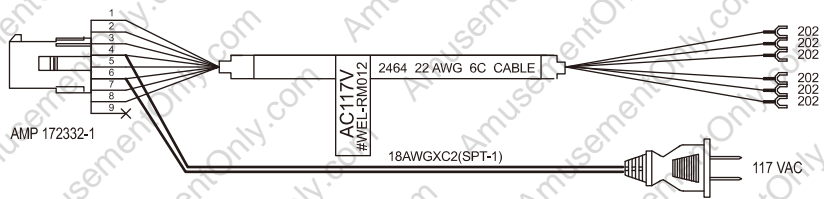
- PIN 1- YELLOW.....NEUTRAL INHIBIT
- PIN 2- RED.....NEUTRAL ENABLE
- PIN 3- BROWN.....HOT ENABLE
- PIN 4- BLACK.....117VAC HOT(Power)
- PIN 5- GREEN.....Earth-Ground
- PIN 6- WHITE.....117VAC NEUTRAL(Power)
- PIN 7- BLUE.....CREDIT_RELAY(N.O.)
- PIN 8- PURPLE.....CREDIT_RELAY(Common)

- PIN 1- PURPLE.....CREDIT_RELAY(Common)
- PIN 3- RED.....NEUTRAL ENABLE
- PIN 4- WHITE.....117VAC NEUTRAL(Power)
- PIN 5- YELLOW.....NEUTRAL INHIBIT
- PIN 16- BLUE.....CREDIT_RELAY(N.O.)
- PIN 18- BROWN.....HOT ENABLE
- PIN 20- BLACK.....117VAC HOT (Power)
- PIN 21- GREEN.....EARTH GROUND

5-1 FIG.02

Interface	Used Voltage	Usage
STD Pulse	117V AC	Extension Wire for WEL-RM008
ICT Protocol (RS232)	117V AC	Extension Wire for WEL-RM008

WEL-RM012



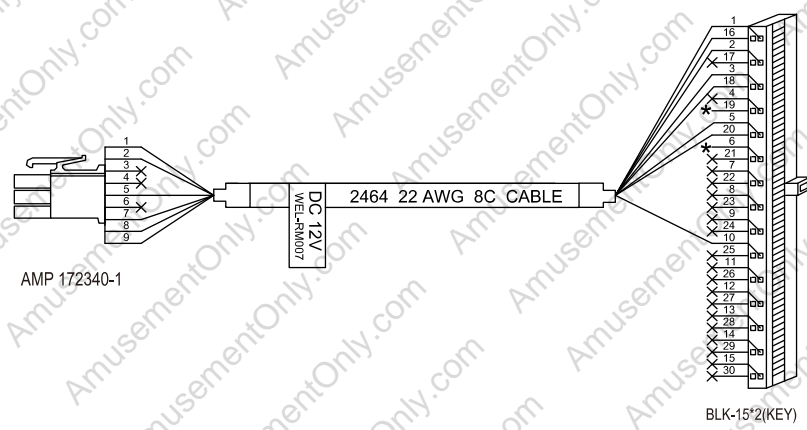
- PIN 1- YELLOW.....NEUTRAL INHIBIT
- PIN 2- RED.....NEUTRAL ENABLE
- PIN 3- ORANGE.....HOT ENABLE
- PIN 4- BLACK.....17VAC HOT (Power)
- PIN 5- GREEN.....Earth - Ground
- PIN 6- BLACK.....117VAC NEUTRAL (Power)
- PIN 7- BLUE.....CREDIT_RELAY (N.O.)
- PIN 8- PURPLE.....CREDIT_RELAY (Common)
- PIN 9- Reserved

- YELLOW.....NEUARAL INHIBIT
- RED.....NEUTRAL ENABLE
- ORANGE.....HOT ENABLE
- GREEN.....Earth - Ground
- BLUE.....CREDIT_RELAY (N.O.)
- PURPLE.....CREDIT_RELAY (Common)

5-1 FIG. 03

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

WEL-RM007



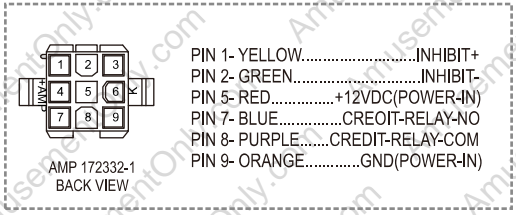
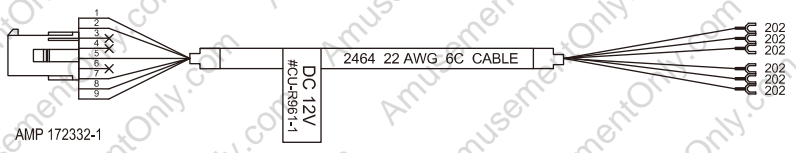
- PIN 1- YELLOW.....INHIBIT+
- PIN 2- GREEN.....INHIBIT-
- PIN 3- RESERVED
- PIN 4- RESERVED
- PIN 5- RED.....12V DC (POWER)
- PIN 5 DOTTED- BLACK.....12V DC (POWER)
- PIN 6- RESERVED
- PIN 7- BLUE.....CREDIT_RELAY (N.O.)
- PIN 8- PURPLE.....CREDIT_RELAY (COMMON)
- PIN 9- BROWN.....GND (POWER)
- PIN 9 DOTTED- WHITE.....GND (POWER)

- PIN 1- PURPLE.....CREDIT_RELAY (COMMON)
- PIN 2- RED.....12VDC (POWER)
- PIN 3- WHITE.....ENABLE-
- PIN 5- YELLOW.....INHIBIT+
- PIN 10- BROWN.....GND (POWER)
- PIN 16- BLUE.....CREDIT_RELAY (N.O.)
- PIN 18- BLACK.....ENABLE+
- PIN 20- GREEN.....INHIBIT-

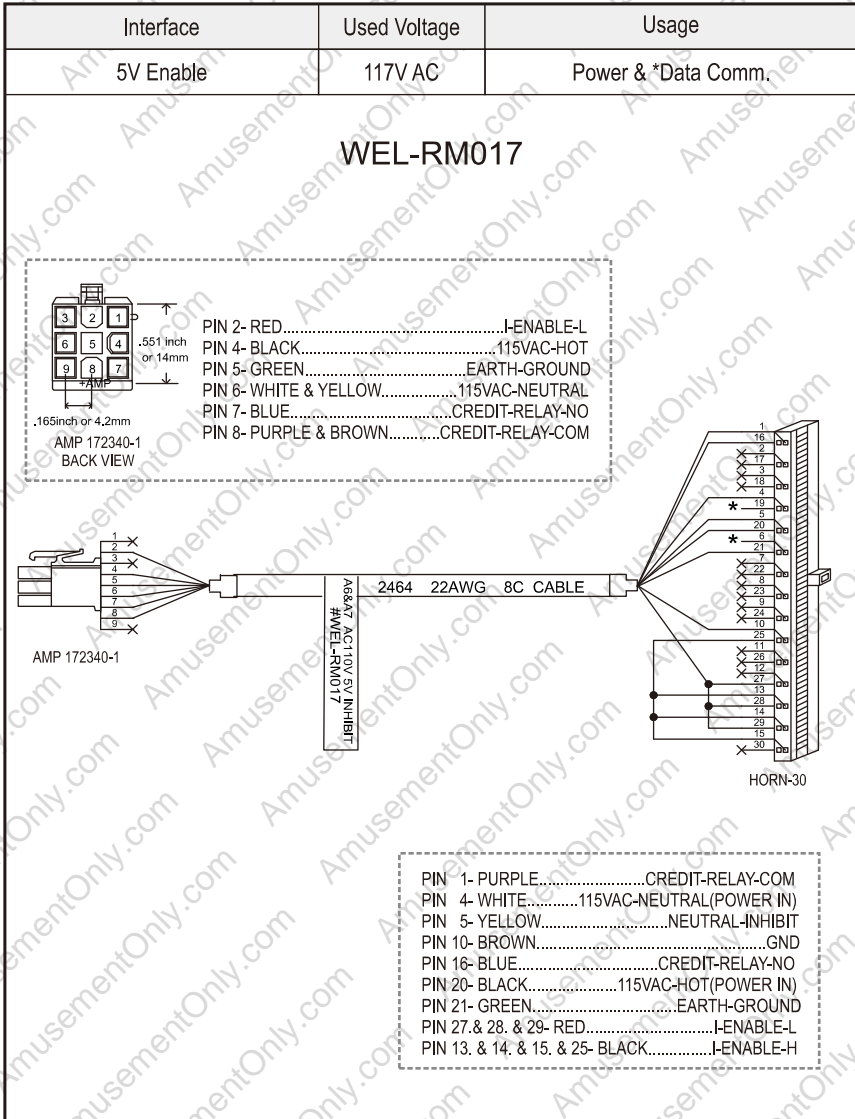
5-1 FIG. 04

Interface	Used Voltage	Usage
STD Pulse	12V DC	Extension Wire for WEL-RM007
ICT Protocol (RS232)	12V DC	Extension Wire for WEL-RM007

CU-R961-1



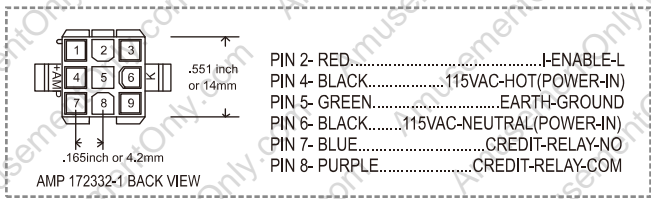
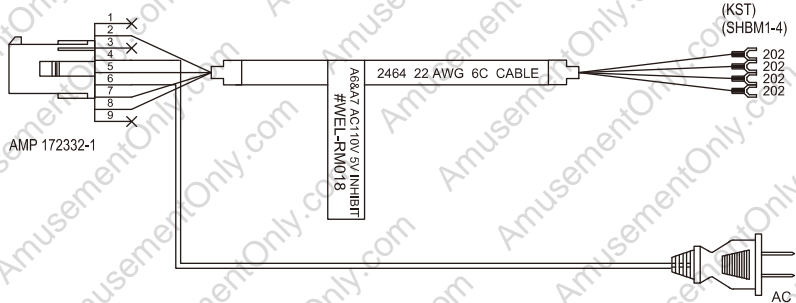
5-1 FIG. 05



5-1 FIG. 06

Interface	Used Voltage	Usage
5V Enable	117V AC	Extension Wire for WEL-RM017

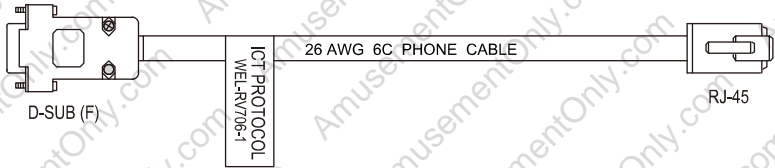
WEL-RM018



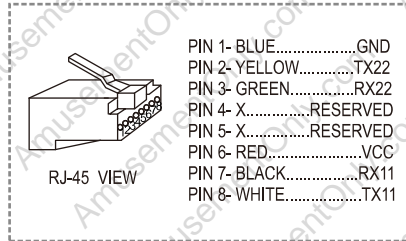
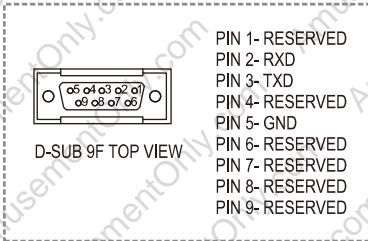
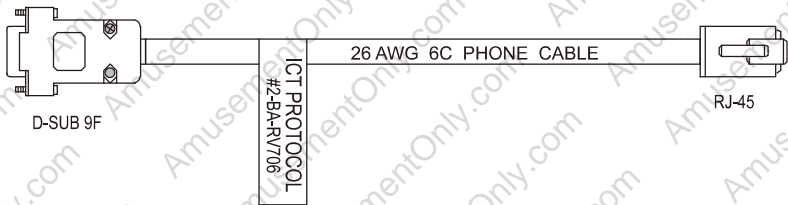
5-1 FIG. 07

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

WEL-RV706-1



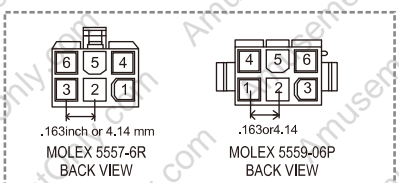
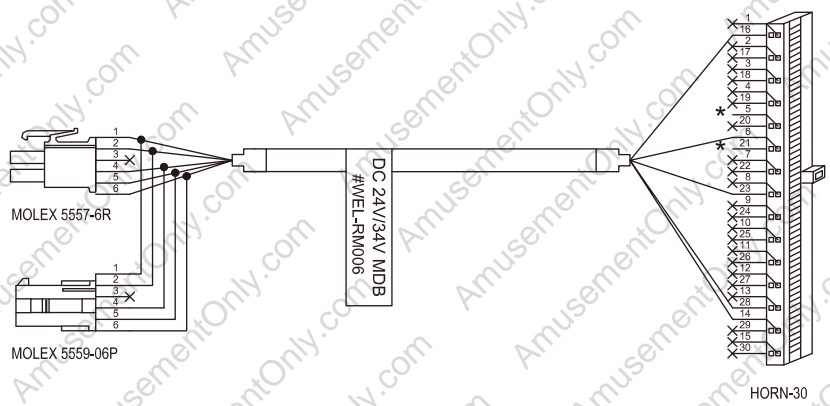
2-BA-RV706



5-1 FIG. 08

Interface	Used Voltage	Usage
MDB	24V/34V DC	Power & *Data Comm.

WEL-RM006

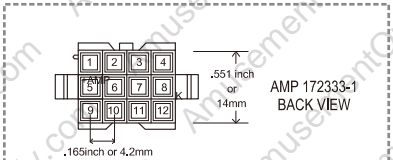
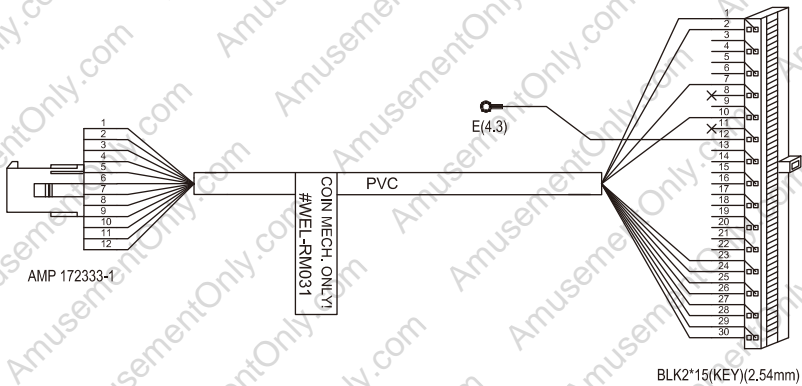


- PIN 1- BLUE.....24V/34VDC
- PIN 2- YELLOW.....POWER RETURN
- PIN 3- N/C
- PIN 4- ORANGE.....MDB_MASTER_RXD
- PIN 5- RED.....MDB_MASTER_TXD
- PIN 6- GREEN.....MDB GROUND

- PIN 6- ORANGE.....MDB_MASTER_RXD
- PIN 14- RED.....MDB_MASTER_TXD
- PIN 16- YELLOW.....POWER RETURN
- PIN 23- BLUE.....24V/34VDC
- PIN 28- GREEN.....MDB GROUND

Interface	Used Voltage	Usage
Single price	117V AC	Power & *Data Comm.

WEL-RM031



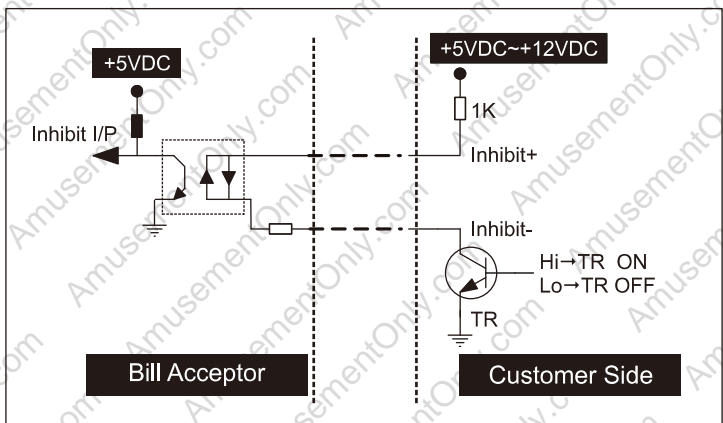
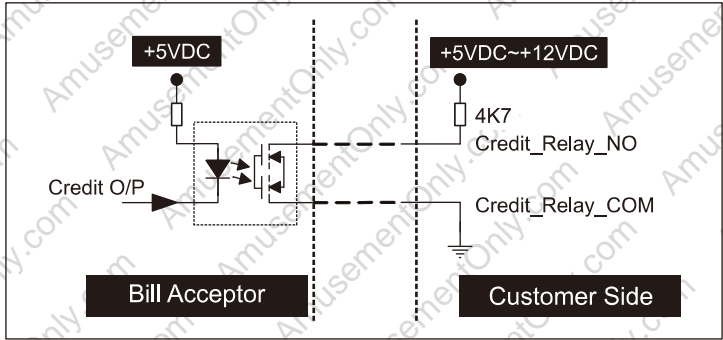
PIN 1- BLACK(20AWG).....	115VAC-HOT
PIN 2- RED(20AWG).....	115VAC-NEUTRAL
PIN 3- BLUE.....	RESERVED
PIN 4- GREEN.....	CREDIT-RELAY-NO
PIN 5- WHITE.....	CREDIT-RELAY-COM
PIN 6- BLACK.....	RESERVED
PIN 7- YELLOW.....	1-ENABLE-H
PIN 8- PURPLE.....	1-ENABLE-L
PIN 9- BROWN.....	RESERVED
PIN 10- ORANGE.....	RESERVED
PIN 11- GREY.....	RESERVED
PIN 12- RED.....	RESERVED

PIN 1- WHITE.....	CREDIT-RELAY-COM
PIN 2- GREEN.....	CREDIT-RELAY-NO
PIN 7- RED(20AWG).....	115VAC-NEUTRAL
PIN 10- BLACK(20AWG).....	115VAC-HOT
PIN 12- YELLOW/ GREEN(20AWG).....	EARTHGND
PIN 23- BROWN.....	RESERVED
PIN 24- PURPLE.....	1-ENABLE-L
PIN 25- BLUE.....	RESERVED
PIN 26- GREY.....	RESERVED
PIN 27- ORANGE.....	RESERVED
PIN 28- RED.....	RESERVED
PIN 29- YELLOW.....	1-ENABLE-H
PIN 30- BLACK.....	RESERVED

5-1-1. I/O Circuit

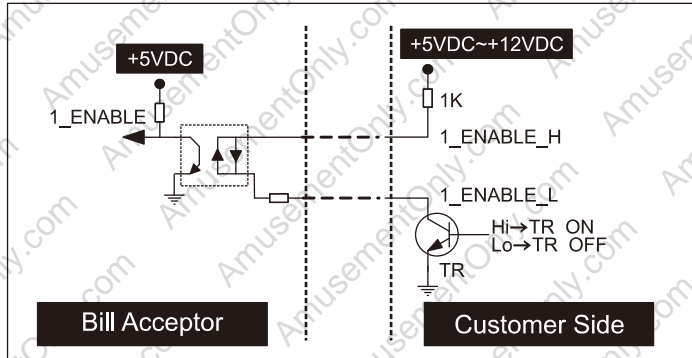
Pulse Interface

5-1-1 FIG. 01



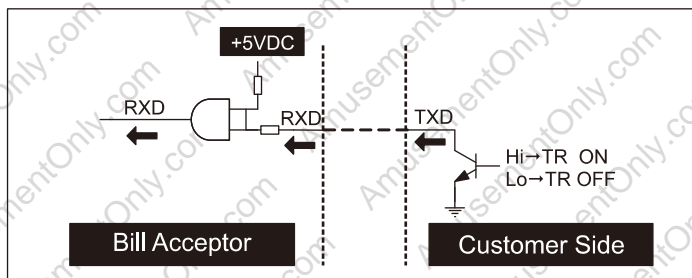
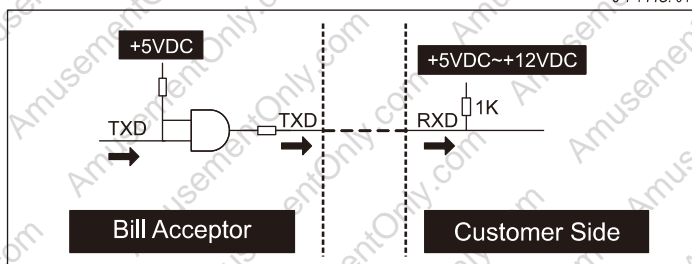
5V Enable Interface

5-1-1 FIG. 03



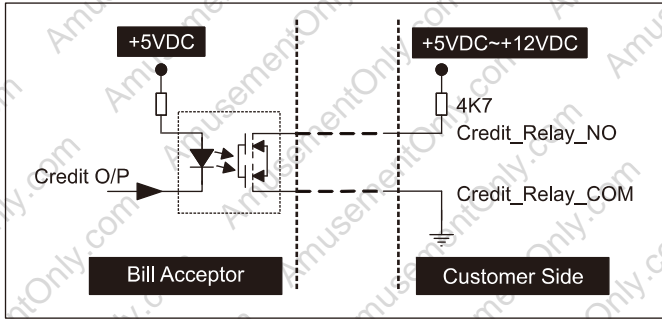
ICT-Protocol Interface

5-1-1 FIG. 04



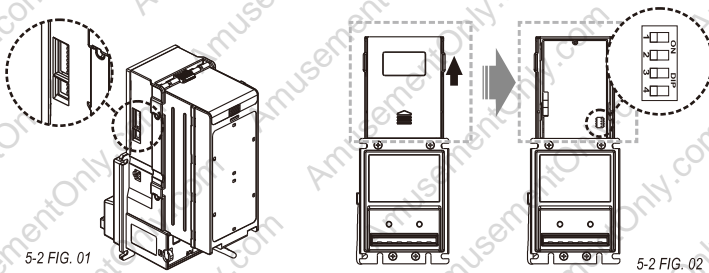
Single Price Interface.

5-1-1 FIG.05



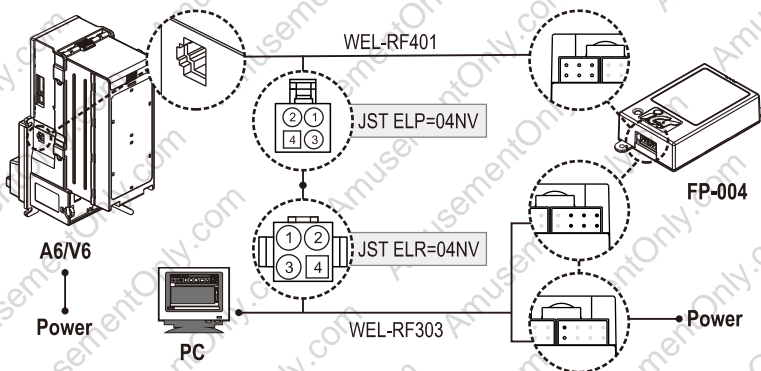
5-2. DIP Switch Setting

There are two serial DIP switches which are set on the side of A6/V6 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 "A6/V6 series DIP Switch Setting Guide" in the package for more details.



5-3. Software Download and Upgrade

To download and upgrade the software to A6/V6 Series, the programmer (FP-004) is needed. Please contact ICT to purchase FP-004 and refer to FP-004 user guide for software download and upgrade information.



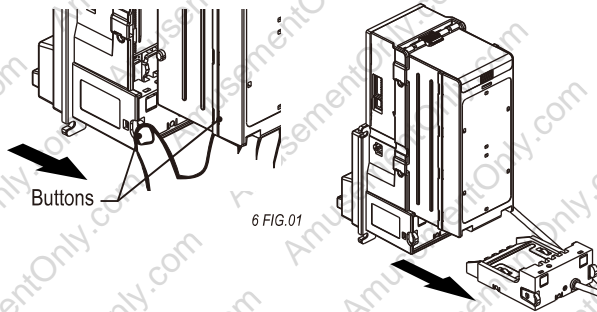
Power must be applied to Bill Acceptor **after** connecting.

6. Maintenance

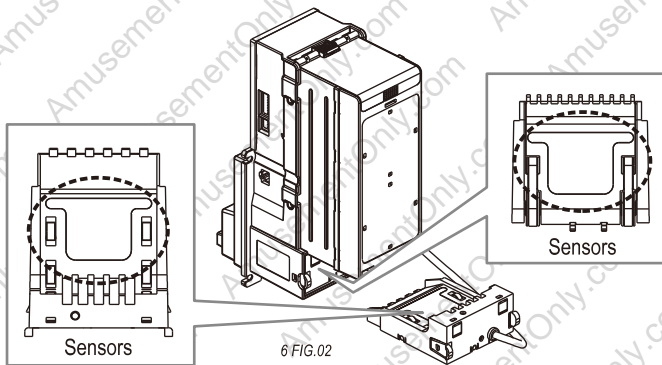
To make sure the bill acceptor always works smoothly, please clean the internal parts every two weeks to every two months.


To clean the internal parts:

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



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



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

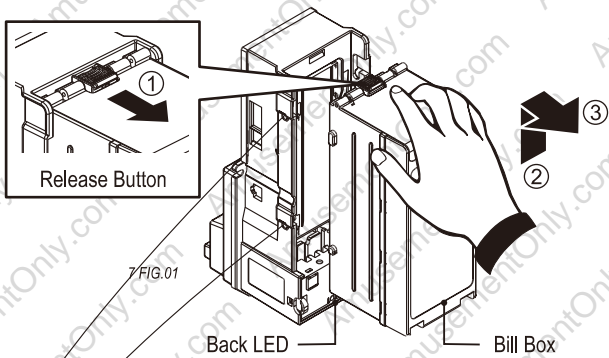
7. Troubleshooting

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.
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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