



LX7 with Bill Acceptor AC110V Pulse/NISR Converter Board



Installation Guide

International Currency Technologies Corp.

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LX7 with AC110V Pulse/NISR Converter Board

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LX7 with AC 110V Pulse/NISR Converter Board

1. Introduction

1-1. Overview

LX7 with AC110V Pulse/NISR Converter Board is a bill acceptor feature the water drainage path to offer maximum protection against water and humidity.

1-2. Features

- Four-way bill insertion acceptance.
- Auto-calibrating.
- Safe lock removable and 200 or 600 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>, V2.2,
NISR, RS232 A0, MDB

Transaction Speed Approx. 3 seconds to stack

Bill Insertion Four-way acceptable



Installation: Indoor use only!!

LX7 with AC110V Pulse/NISR Converter Board

Electrical

Power Source

12V DC
24V/34V DC (20~42.5V DC)
117V AC

Power Consumption

12V DC- Standby : 0.3A, 4W
Operation: 0.8A, 10W
Maximum: 2.5A, 30W
24V/34V DC- Standby : 0.15A, 6W
Operation: 0.4A, 14W
Maximum: 1.35A, 46W
117V AC- Standby : 63mA, 7W
Operation: 0.12A, 13.5W
Maximum: 0.27A, 30W

Operation Environment

<With Converter Board>
Operation Temperature: 0°C~55°C
Storage Temperature: -30°C~70°C
Humidity: 30%~85% RH(no condensation)
<Without Converter Board>
Operation Temperature: -15°C~60°C
Storage Temperature: -30°C~70°C
Humidity: 30%~85% RH(no condensation)

Mechanical

Bill Capacity

Approx. 200 or 600 bills

Outline Dimension

Plastic knob- Refer to page.5
Tubular lock- Refer to page.6

Weight

Approx. 1.25kg

LX7 with AC 110V Pulse/NISR Converter Board

Lock Type

Plastic Knob
Tubular lock(Customize)

Bill Accepted Width

62~72mm

3. Packing List

Main

Bill Acceptor

Accessory

Harness: Refer to 5-1

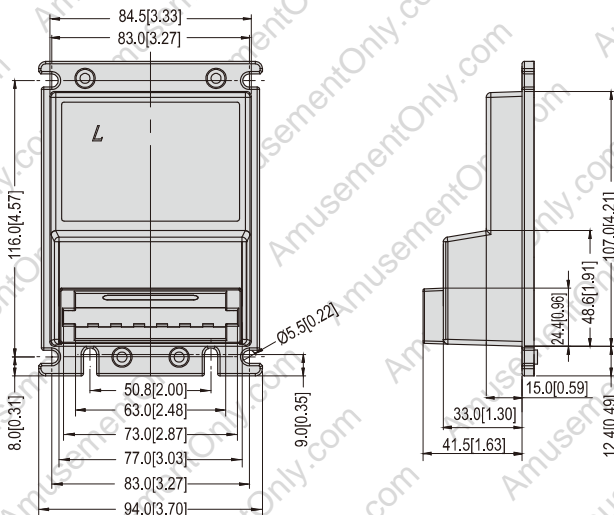
LX7 with AC110V Pulse/NISR Converter Board Installation Guide

LX7 with AC110V Pulse/NISR Converter Board DIP Switch Setting Guide

A Pair of keys (For tubular lock only)

4. Dimension

Bezel

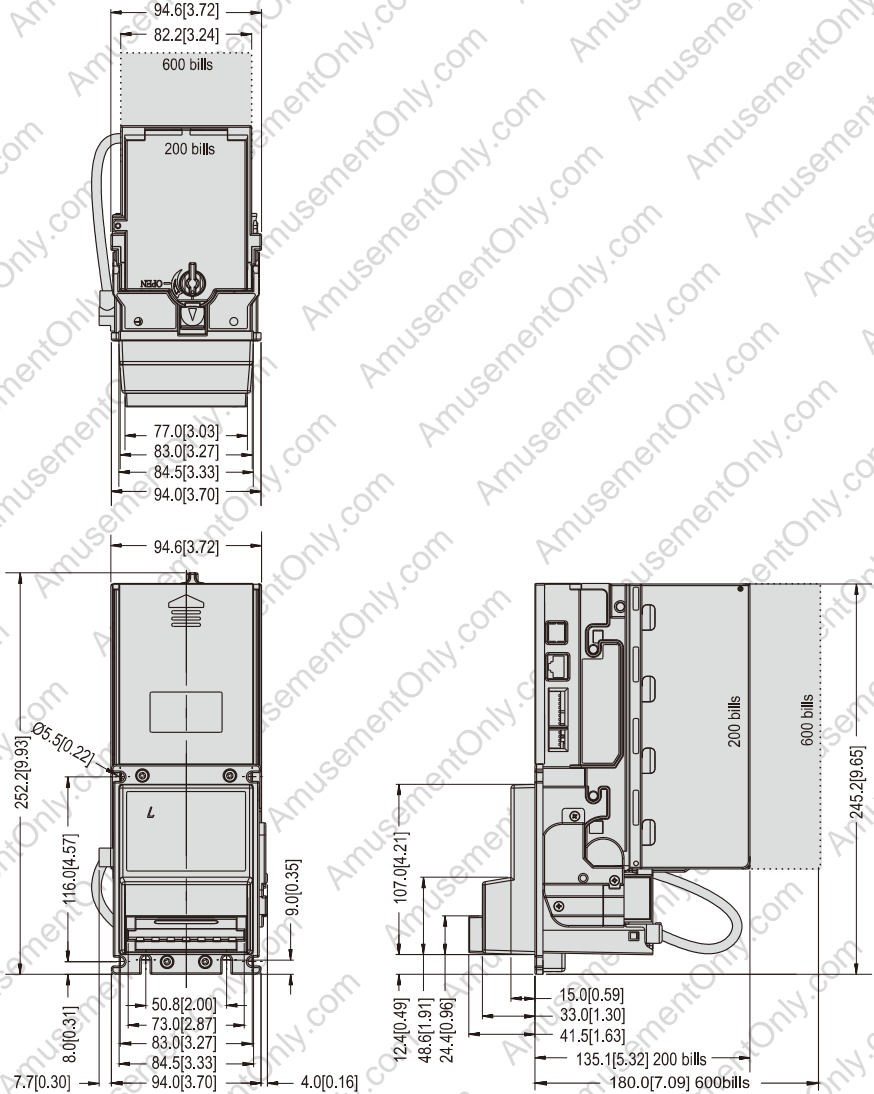


Unit : mm [inch]

4 FIG.01

LX7 with AC110V Pulse/NISR Converter Board

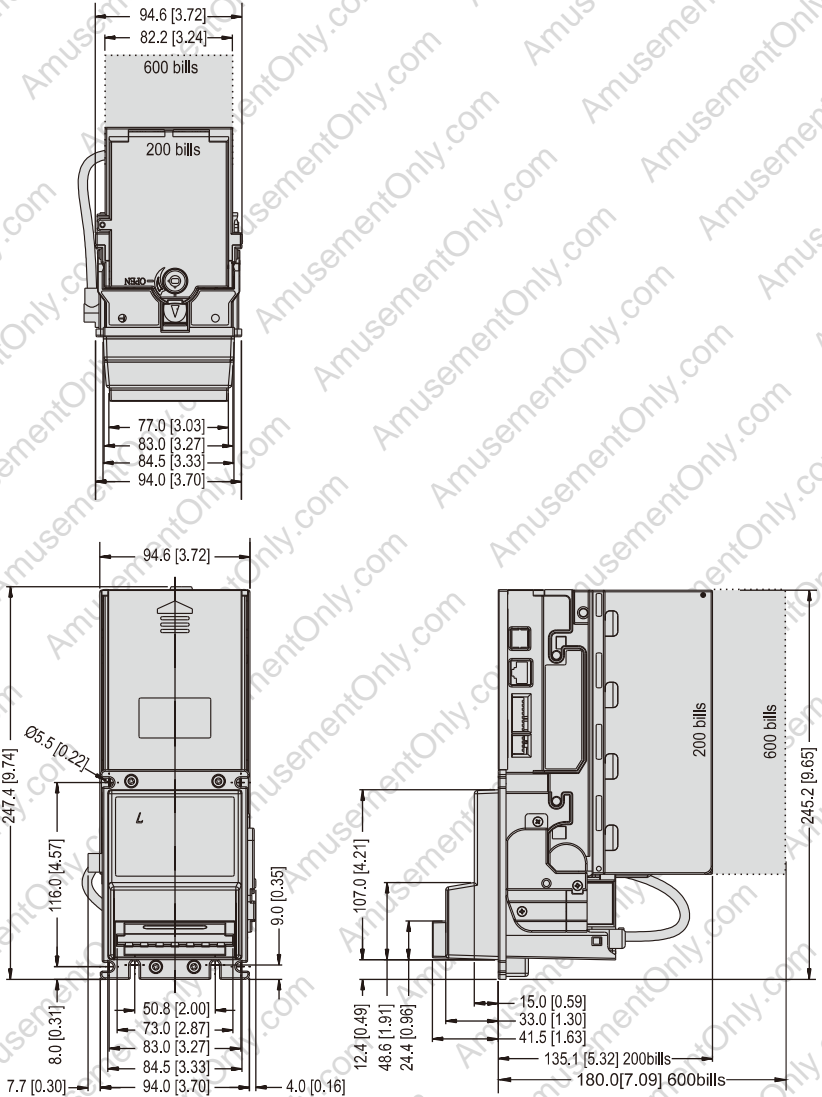
Plastic Knob



Unit : mm [inch]
4 FIG.02

LX with AC 110V Pulse/NISR Converter Board

Tubular lock



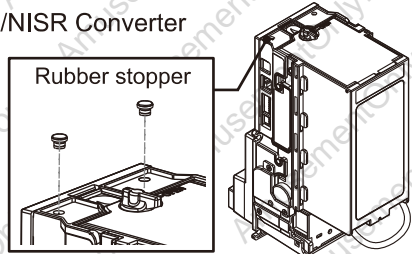
Unit : mm [inch]

4 FIG.03

5. Installation



When LX7 with AC110V Pulse/NISR Converter Board is installed in down stacker direction, please remove the rubber stopper.



5 FIG.01

5-1. Harness Application

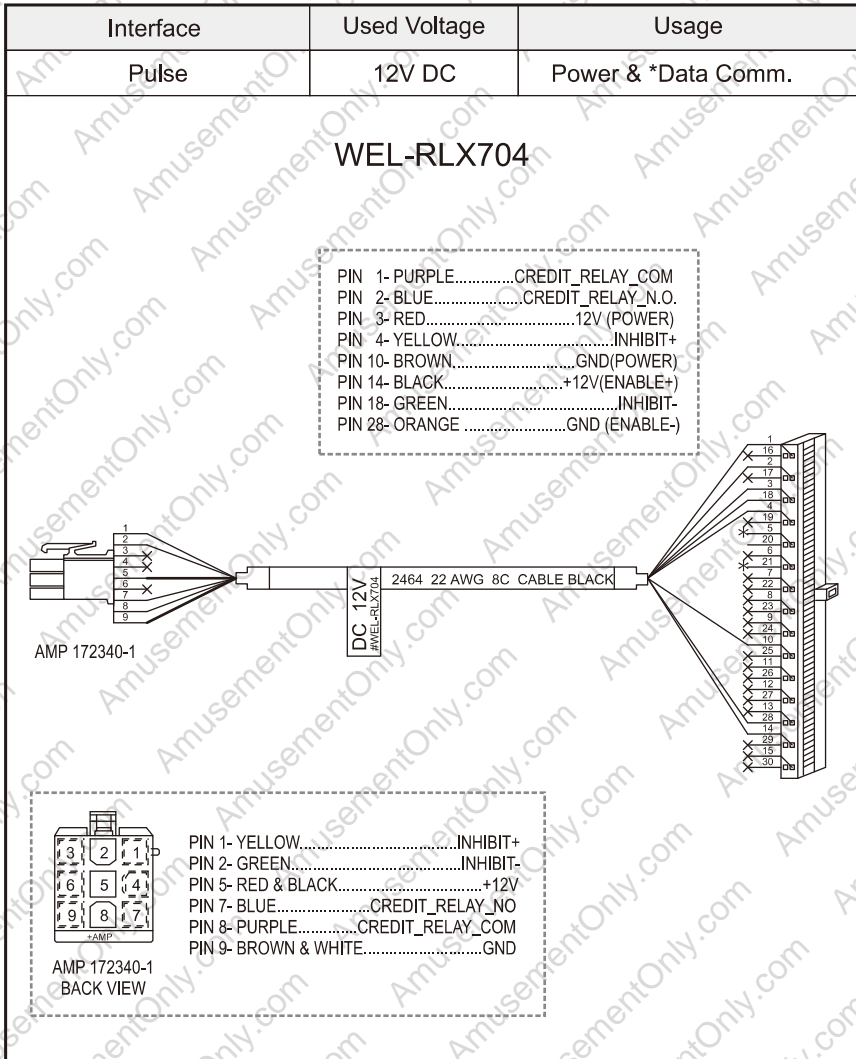
5-1 TABLE 01

Interface	Used Voltage	Usage	Harness	Page
Pulse	12V DC	Power & *Data Comm.	WEL-RLX704	8
		Extension Wire	CU-R961-1	9
Pulse	12V DC	Power & *Data Comm.	WEL-RV701	14
		Extension Wire	CU-R961-1	9
Pulse	117V AC	Power & *Data Comm. (BA ↔ AC117V Pulse Converter Board)	WEL-RLX702	10
		Power & *Data Comm. (AC117V Pulse Converter Board ↔ VMC)	3-BA-RLX703-01	11
		Extension Wire	WEL-RM012	12
ICT Protocol, V2.2	12V DC	*Data Comm.	WEL-RV706-1 or 2-BA-RV706	13
		Power	WEL-RV701	14
		Extension Wire	CU-R961-1	9
NISR	117V AC	Power & *Data Comm. (BA ↔ AC117V NISR Converter Board)	WEL-RLX705	15
		Power & *Data Comm. (AC117V NISR Converter Board ↔ VMC)	3-BA-RLX701-01	16
RS232 A0	12V DC	*Data Comm.	WEL-RV706-1 or 2-BA-RV706	13
		Power	WEL-RV701	14
		Extension Wire	CU-R961-1	9
MDB	24V/34V DC	Power & *Data Comm.	WEL-RM006	17

*Data Comm. : Data Communication.

LX₂ with AC 110V Pulse/NISR Converter Board

5-1 FIG.01

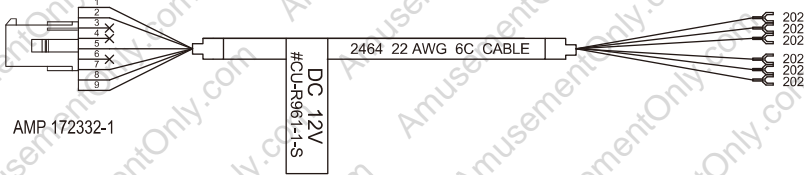


LX7 with AC110V Pulse/NISR Converter Board

5-1 FIG.02

Interface	Used Voltage	Usage
Pulse	12V DC	Extension Wire for WEL-RLX704
Pulse	12V DC	Extension Wire for WEL-RV701
ICT Protocol, V2.2	12V DC	Extension Wire for WEL-RV701
RS232 A0	12V DC	Extension Wire for WEL-RV701

CU-R961-1

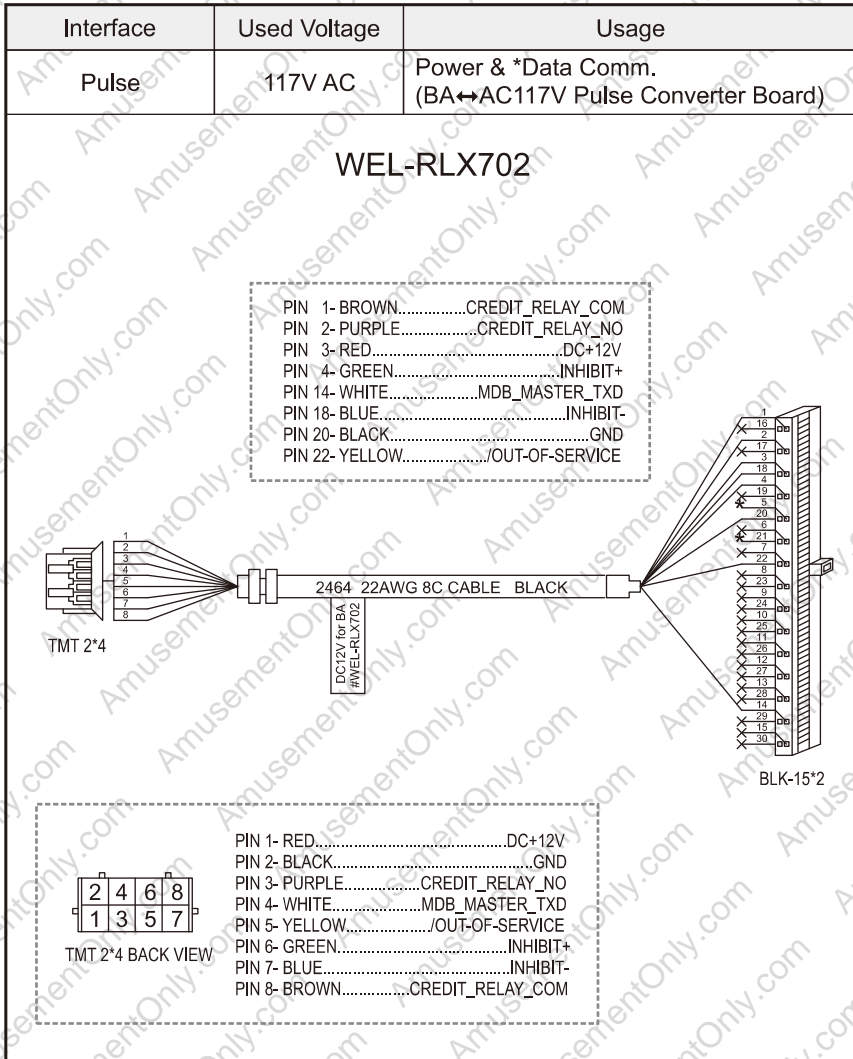


AMP 172332-1
BACK VIEW

- PIN 1- YELLOW.....INHIBIT+
- PIN 2- GREEN.....INHIBIT-
- PIN 5- RED.....+12VDC(POWER-IN)
- PIN 7- BLUE.....CREOIT-RELAY-NO
- PIN 8- PURPLE.....CREDIT-RELAY-COM
- PIN 9- ORANGE.....GND(POWER-IN)

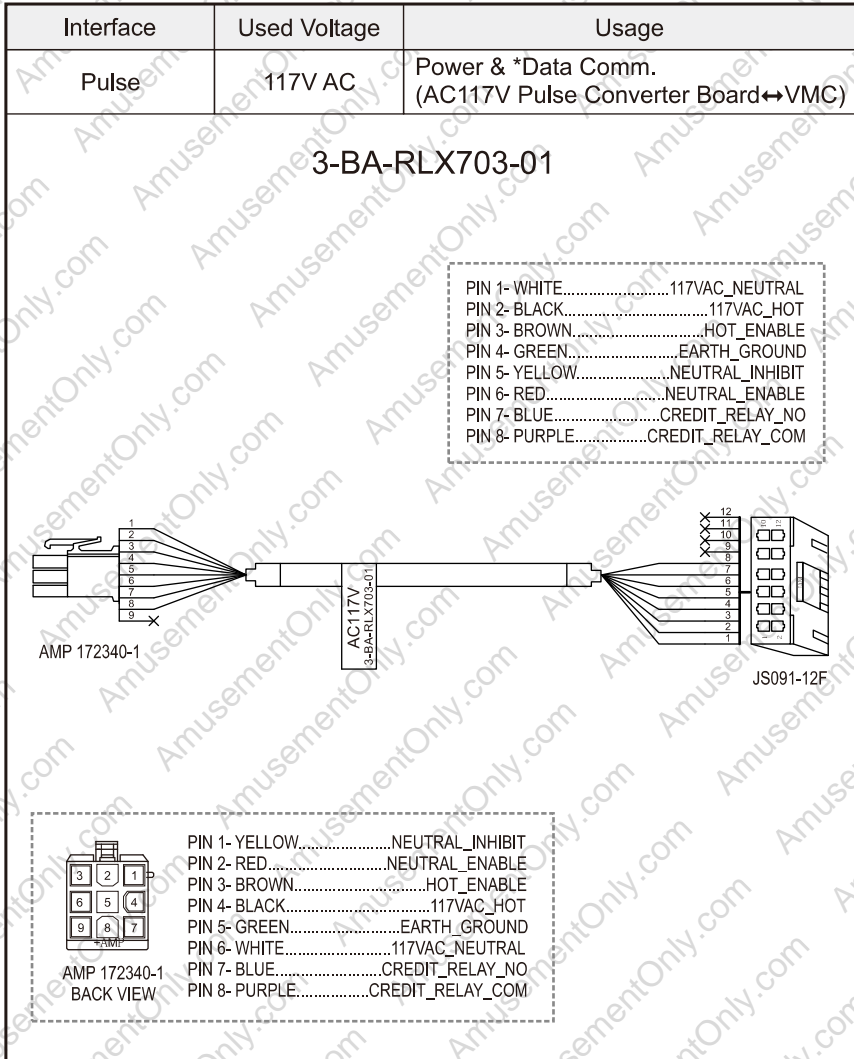
RLX with AC 110V Pulse/NISR Converter Board

5-1 FIG.03



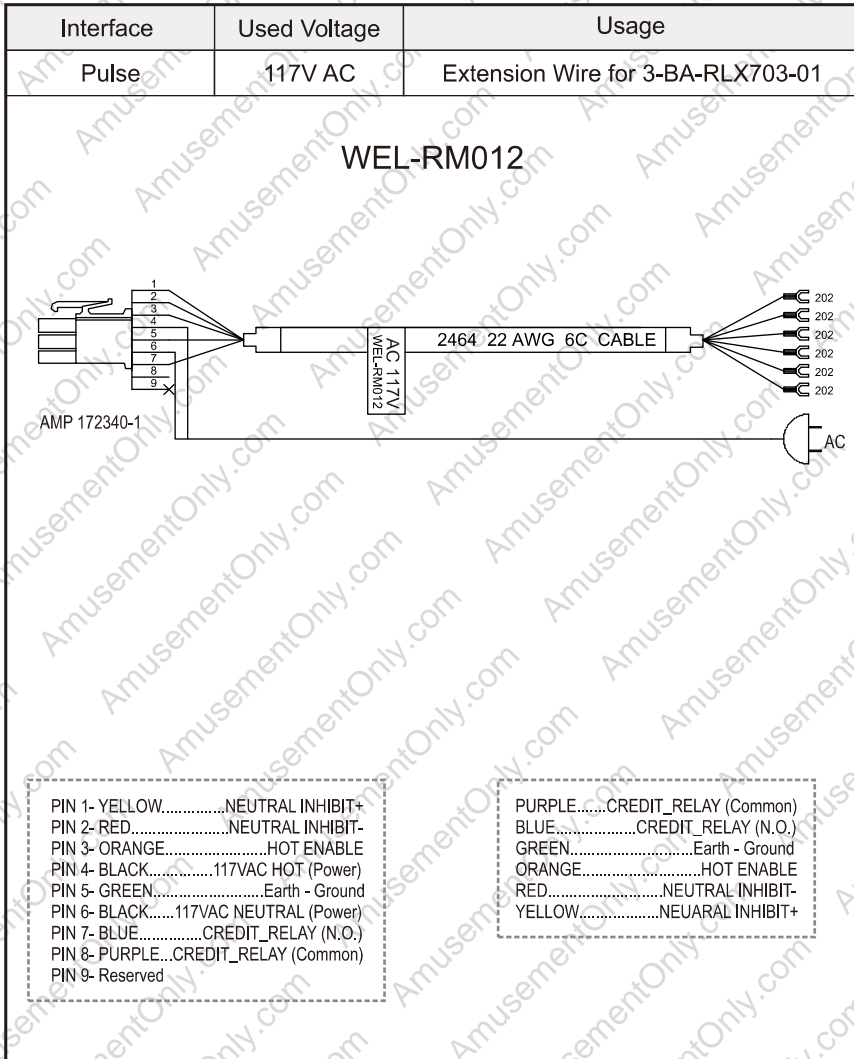
LX7 with AC110V Pulse/NISR Converter Board

5-1 FIG.04



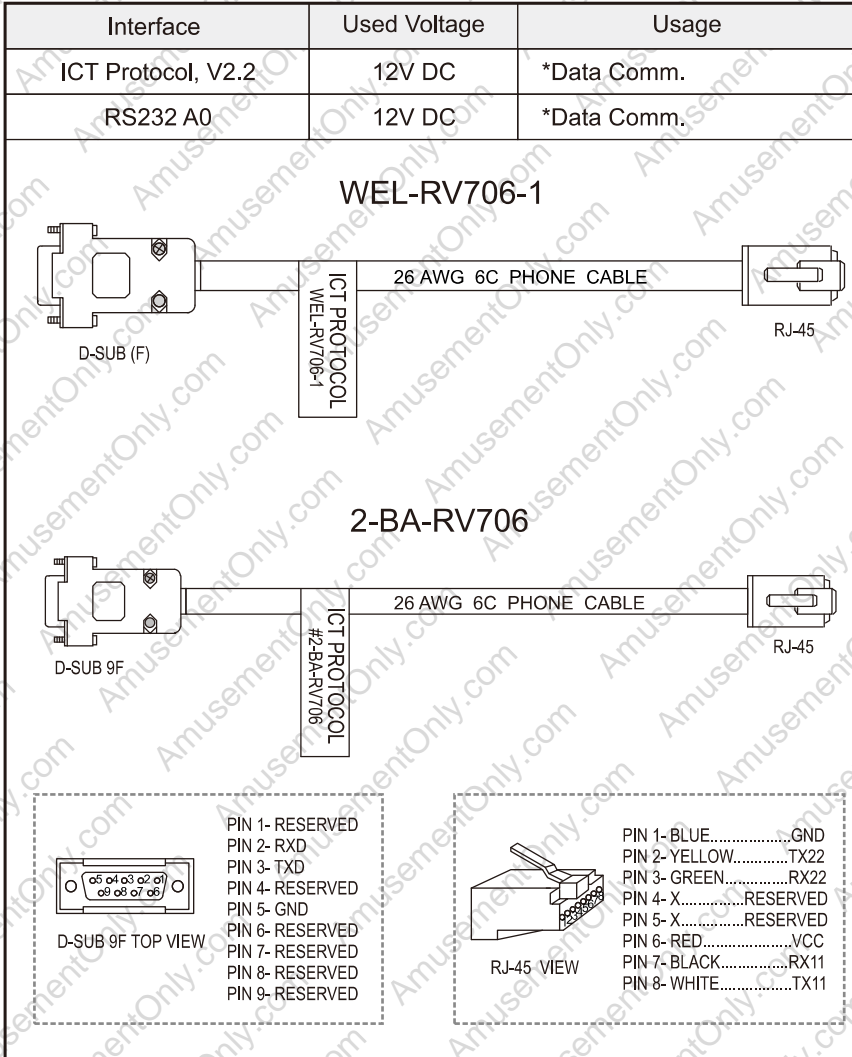
LX₂ with AC 110V Pulse/NISR Converter Board

5-1 FIG.05



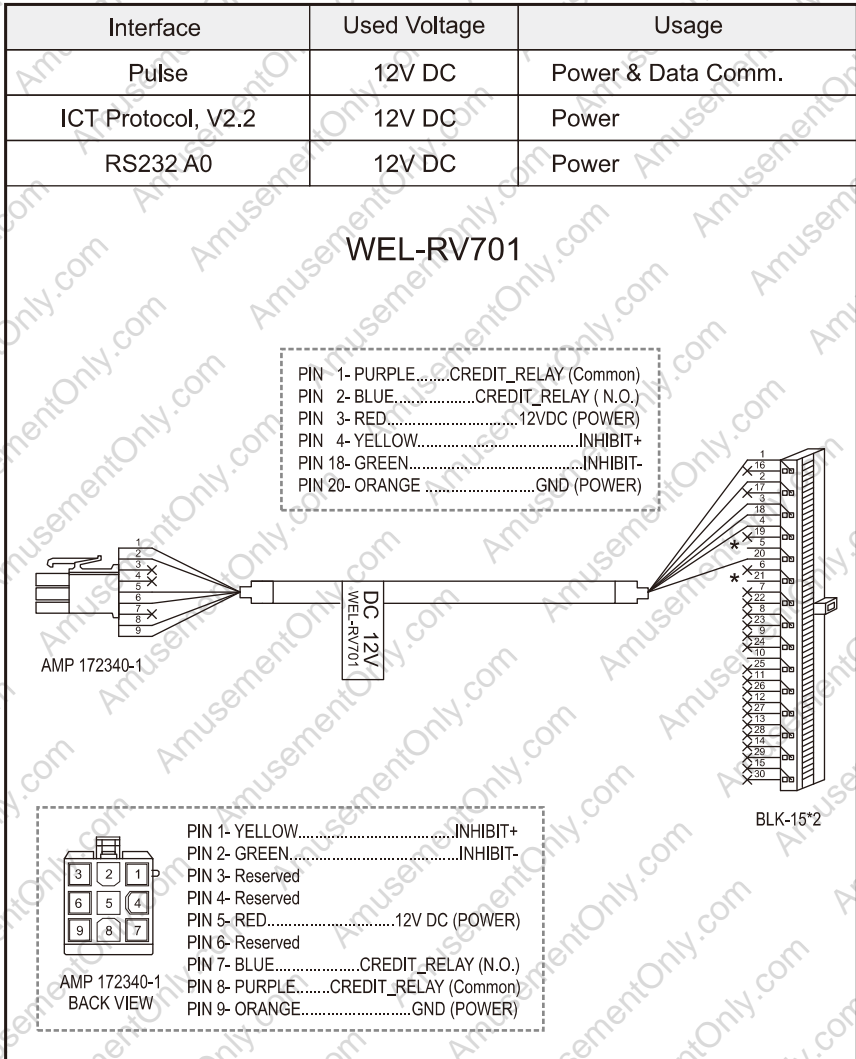
LX7 with AC110V Pulse/NISR Converter Board

5-1 FIG.06



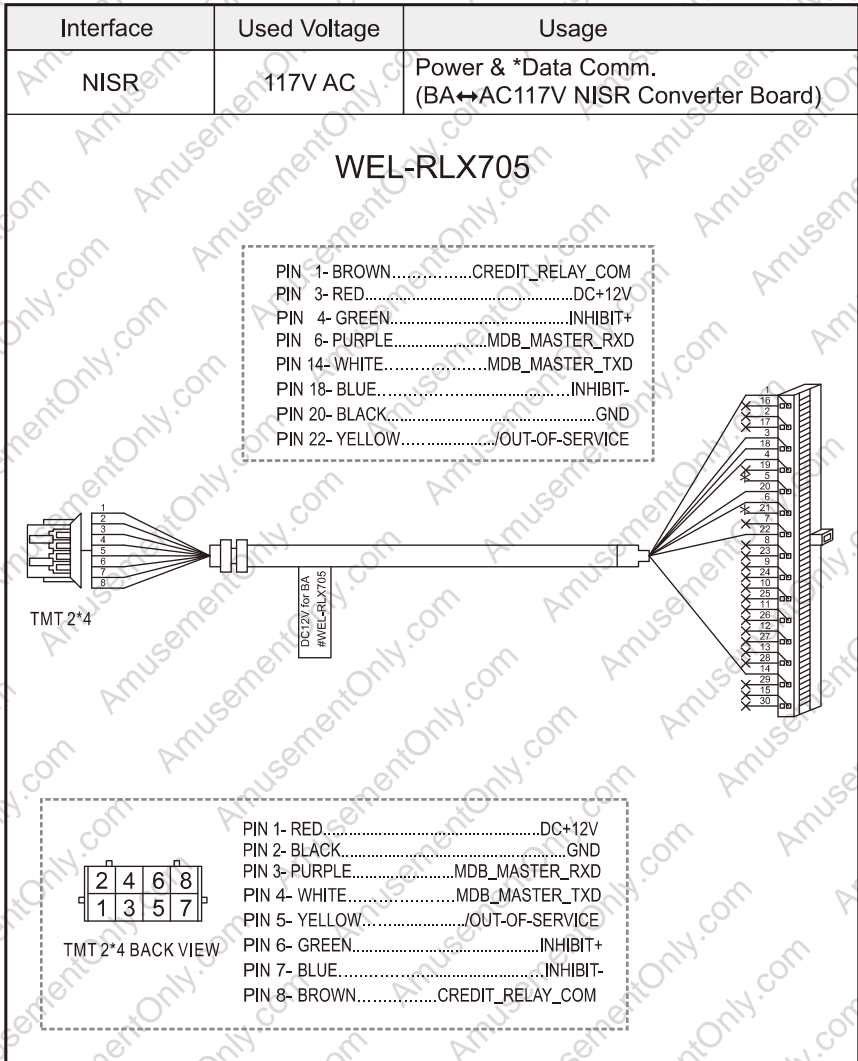
LX₂ with AC 110V Pulse/NISR Converter Board

5-1 FIG.07



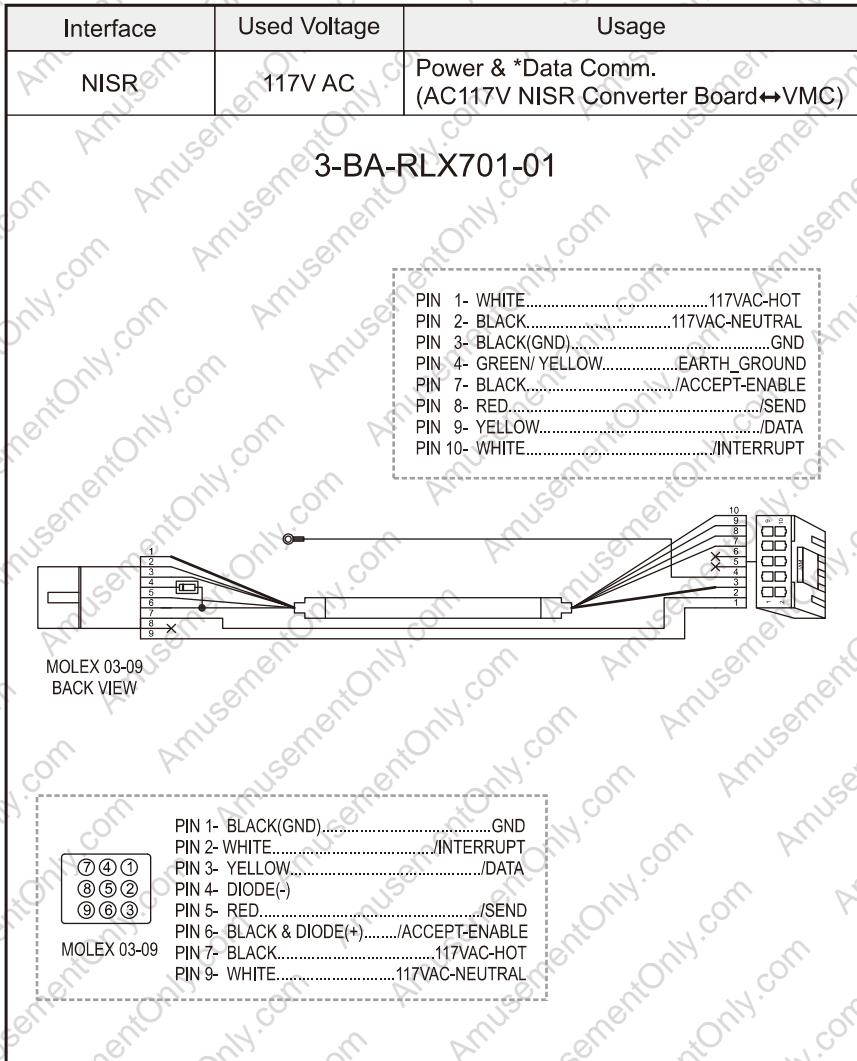
LX7 with AC110V Pulse/NISR Converter Board

5-1 FIG.08



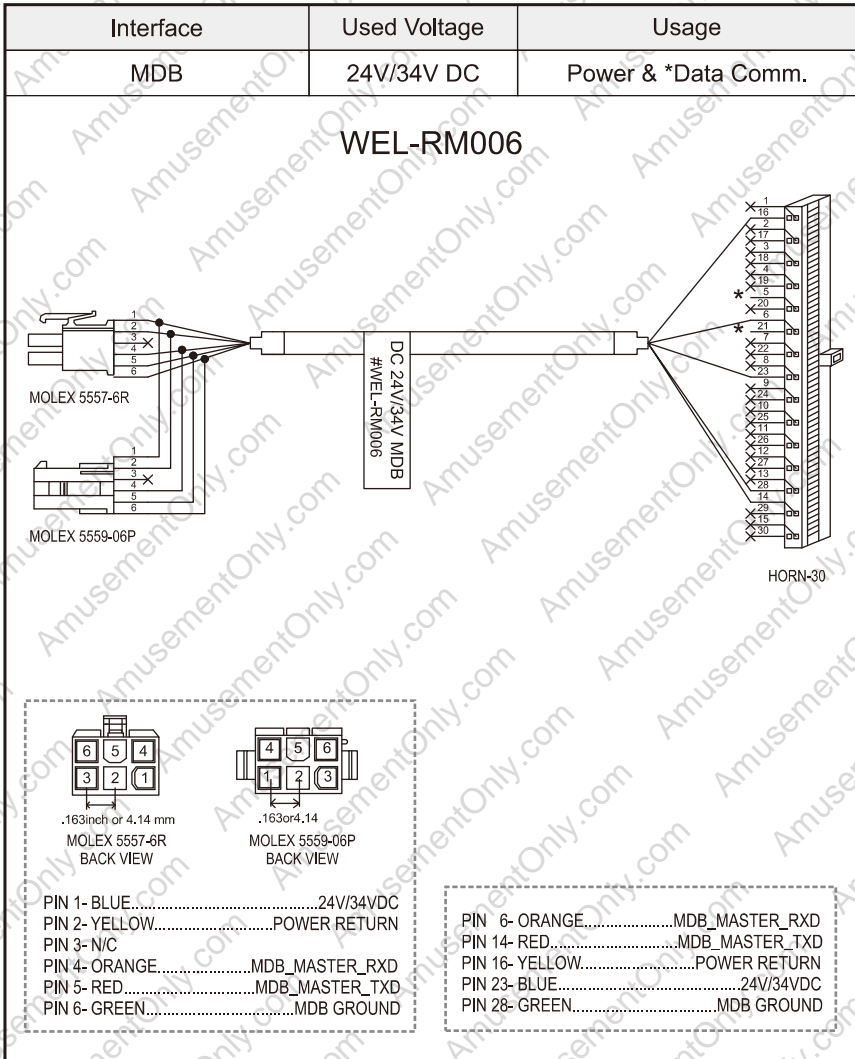
LX- with AC 110V Pulse/NISR Converter Board

5-1 FIG.09



LX7 with AC110V Pulse/NISR Converter Board

5-1 FIG. 10

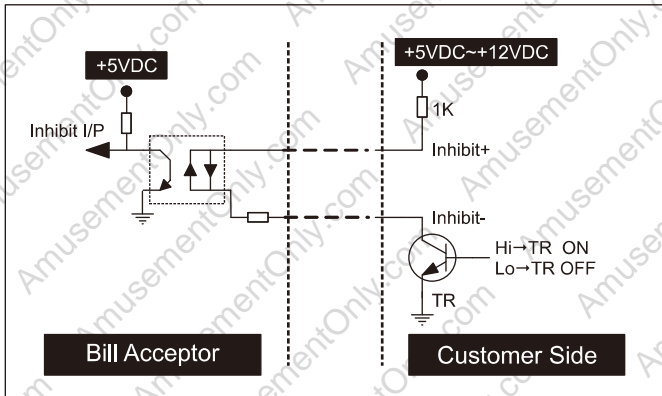
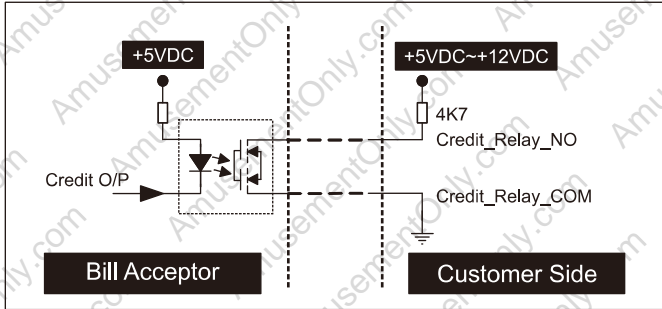


LX with AC 110V Pulse/NISR Converter Board

5-1-1. I/O Circuit

Pulse Interface.

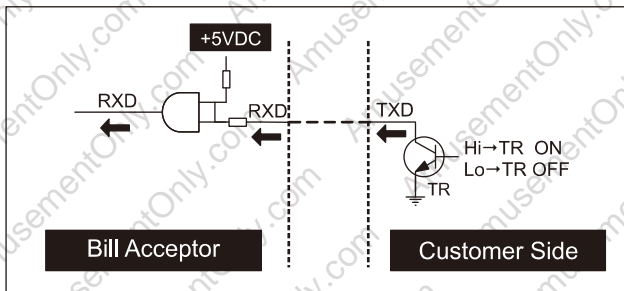
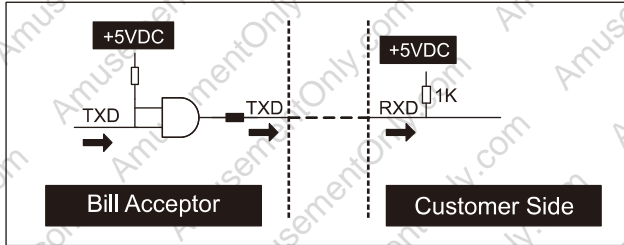
5-1-1 FIG.01



LX7 with AC110V Pulse/NISR Converter Board

ICT Protocol<RS232> & V.2.2 Interface.

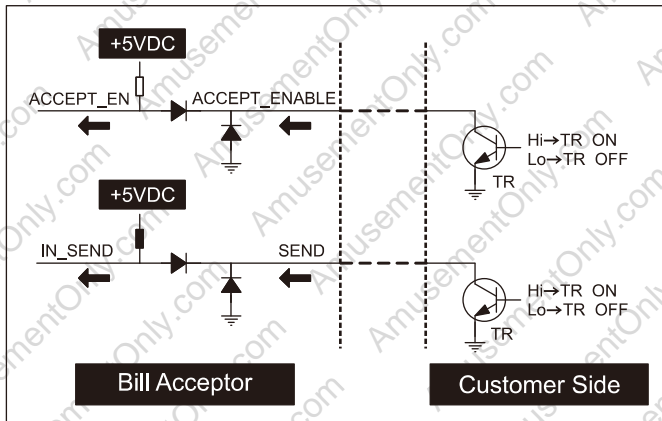
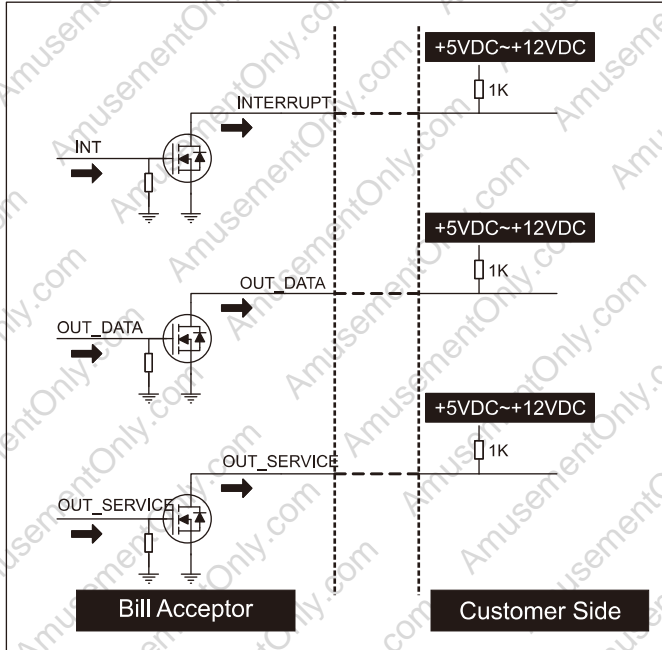
5-1-1 FIG.02



LX with AC 110V Pulse/NISR Converter Board

NISR Interface.

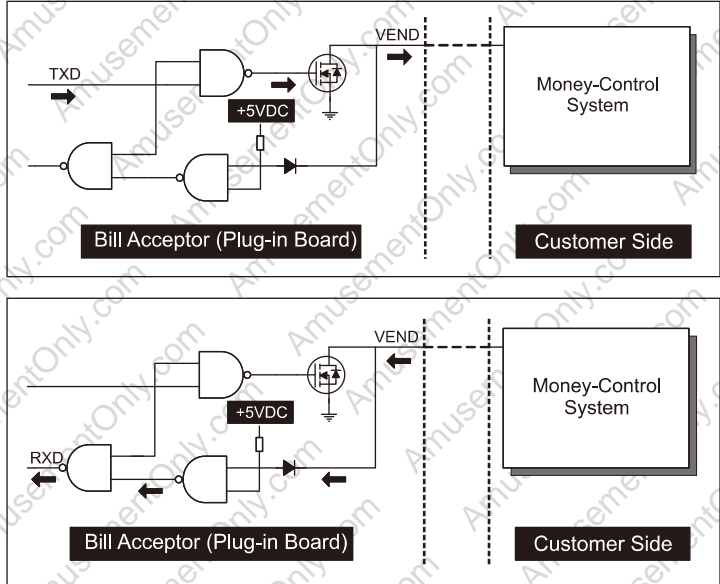
5-1-1 FIG.03



LX7 with AC110V Pulse/NISR Converter Board

ccTalk Interface

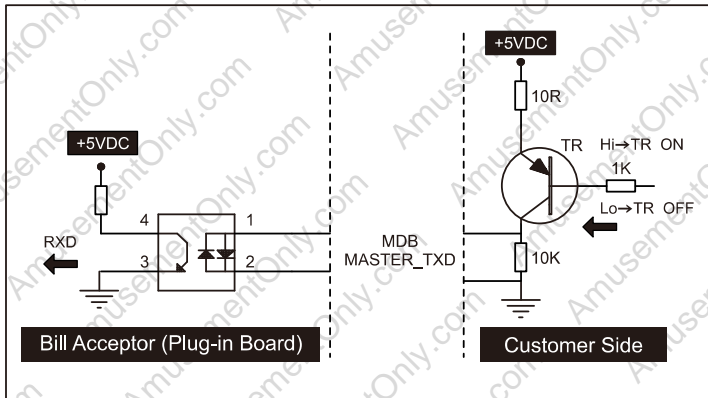
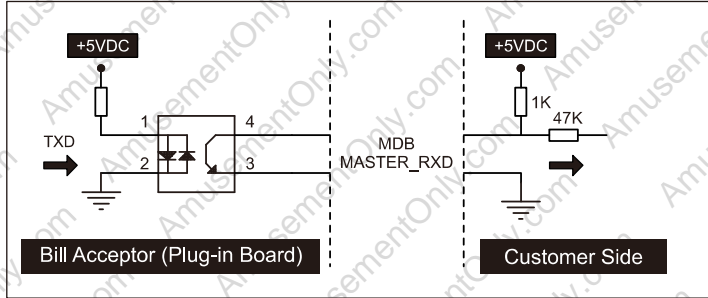
5-1-1 FIG.04



LX with AC 110V Pulse/NISR Converter Board

MDB Interface.

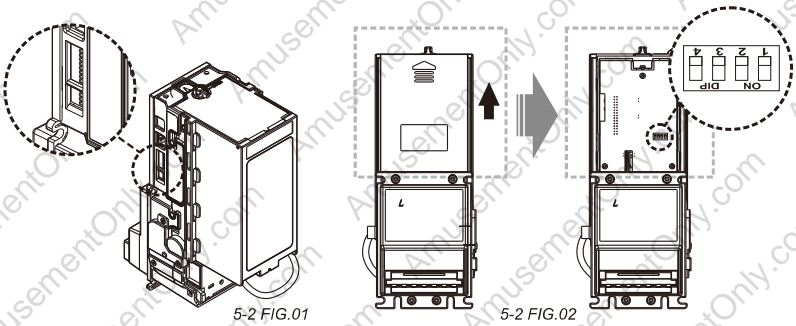
5-1-1 FIG.05



LX7 with AC110V Pulse/NISR Converter Board

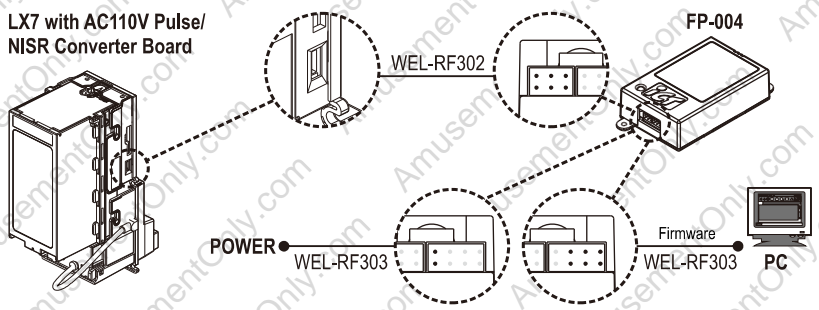
5-2. DIP Switch Setting

There are two serial DIP switches which are set on the side of LX7 with AC110V Pulse/NISR Converter Board(as 5-2 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 5-2 FIG.02). Please refer to "LX7 with AC110V Pulse/NISR Converter Board DIP Switch Setting Guide" in the package for more details.



5-3. Software Download and Upgrade

To download and upgrade the software to LX7 with AC110V Pulse/NISR Converter Board, 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.



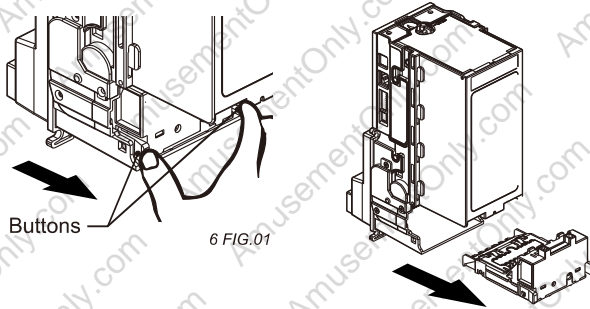
Please turn on Bill Acceptor after connecting.

6. Maintenance

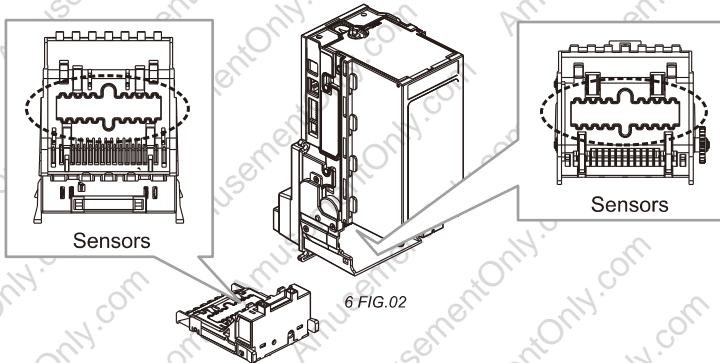
To make sure the bill acceptor always works smoothly, please clean the internal parts every two weeks to every two months.


To clean the internal parts:

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



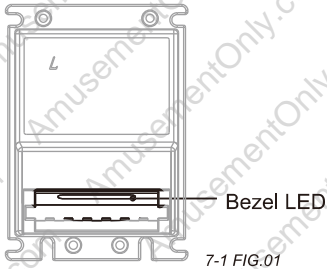
2. Use a soft, dry cloth or towel to clean the bill path and sensors.



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

7. Trouble Shooting

7-1. Bezel LED Errors



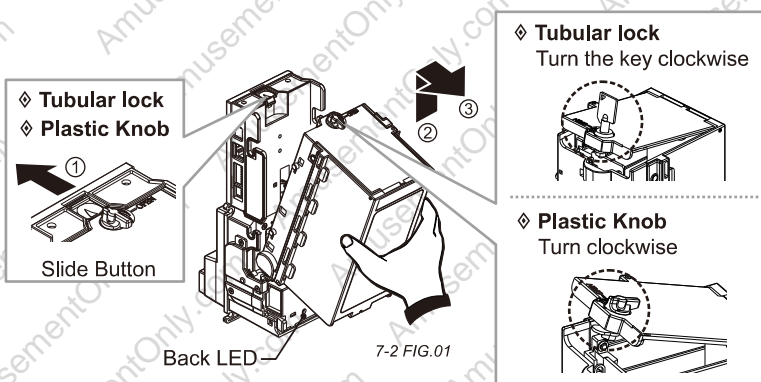
7-1 TABLE 01

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 7-2 FIG.01), 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

7-2 TABLE 01

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 7-2 FIG.01), 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.



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

ict Taiwan

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