Manuals+ — User Manuals Simplified.

iCT LX7-A Bill Acceptor Installation Guide

Contents

iCT LX7-A Bill Acceptor

Use of Materials Limitations

Introduction

Overview

LX7-A is a bill acceptor feature the water drainage path to offer maximum protection against water and humidity.

Features

- Four-way bill insertion acceptance.
- Safe lock removable and 200 or 600 bills box capacity.
- Selective lock between plastic knob and tubular lock.

Specifications

General

Acceptance Rate 96% or greater
Note: The acceptance rate excludes notes that are dirty, wet, broken or wrinkled.

Interface

Pulse
V2.2,
NISR

ccTalk
RS232A0
ICT Protocol <RS232>

- Transaction Speed Approx. 3 seconds to stack
- Bill Insertion Four-way acceptable

Electrical

- Power Source 12V DC , 117V AC
- Power Consumption
    - 12V DC- Standby : 0.3A, 4W
    - Operation: 0.8A, 10W
    - Maximum: 2.5A, 30W
    - 117V AC- Standby : 63mA, 7W
    - Operation: 0.12A, 13.5W
    - Maximum: 0.27 A, 30W
- Operation Environment
    - Operation Temperature: -15°C-60°C
    - Storage Temperature: -30°C-?0°C
    - Humidity: 30%-85% RH(no condensation)

Mechanical

- Bill Accepted Width
    - 62-72mm
- Bill Capacity
    - Approx. 200
    - Approx. 600 bills
- Lock Type
    - Plastic Knob

        Tubular lock(Customize)
- Weight
    - Approx. 1.25kg
- Outline Dimension
    - Bezel- Refer to page.5
    - Plastic knob- Refer to page.6
    - Tubular lock- Refer to page.7

Installation: Indoor use only!!
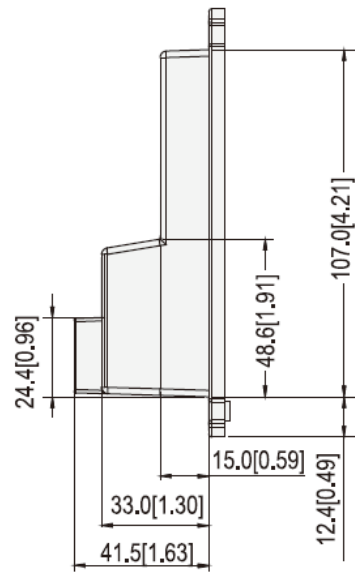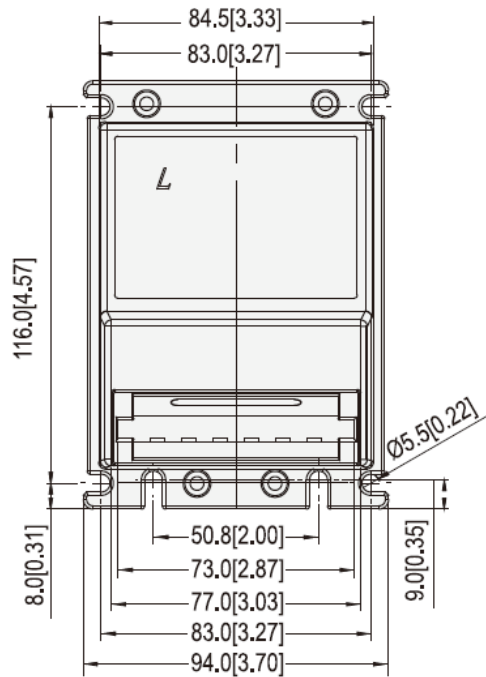
Packing List

- Main
    - Bill Acceptor

- Accessory
    - Harness: Refer to 5-1
    - LX7-A Installation Guide
    - LX7-A DIP Switch Setting Guide
    - A Pair of keys (For tubular lock only)

Dimension

- Double Open-end Standard Bezel
- Part Number: 3ZMB-FAC37000

Unit : mm [inch]

4 FIG.01

- Double Open-end Metal Bezel
- Part Number: 3ZMB-FAC66000
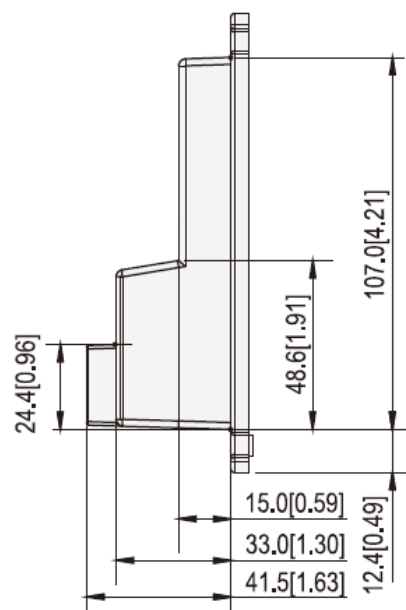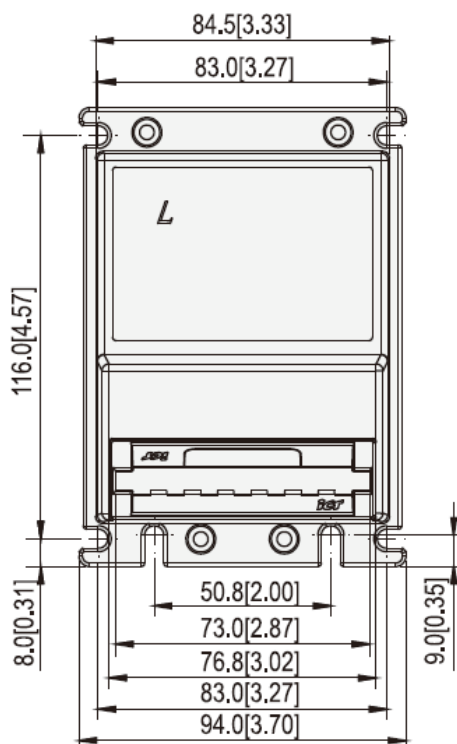
Unit : mm [inch]

4 FIG.02

Plastic Knob

94.6[3.72]
82.2[3.24]

600 bills

200 bills

OPEN

77.0[3.03]
83.0[3.27]
84.5[3.33]
94.0[3.70]

Ø5.5[0.22]

252.2[9.93]

116.0[4.57]

9.0[0.35]

L

8.0[0.31]

50.8[2.00]
73.0[2.87]
83.0[3.27]
84.5[3.33]

7.7[0.30]

94.0[3.70]

4.0[0.16]

200 bills

600 bills

245.2[9.65]

107.0[4.21]

12.4[0.49]
48.6[1.91]
24.4[0.96]

15.0[0.59]
33.0[1.30]
41.5[1.63]
135.1[5.32] 200 bills
180.0[7.09] 600bills

Tubular lock

94.6 [3.72]
82.2 [3.24]

600 bills

200 bills

OPEN

77.0 [3.03]
83.0 [3.27]
84.5 [3.33]
94.0 [3.70]

94.6 [3.72]

Ø5.5 [0.22]

247.4 [9.74]

116.0 [4.57]

9.0 [0.35]

L

8.0 [0.31]

7.7 [0.30]

50.8 [2.00]
73.0 [2.87]
83.0 [3.27]
84.5 [3.33]
94.0 [3.70]

4.0 [0.16]

200 bills

600 bills

245.2 [9.65]

107.0 [4.21]

12.4 [0.49]
48.6 [1.91]
24.4 [0.96]

15.0 [0.59]
33.0 [1.30]
41.5 [1.63]

135.1 [5.32] 200bills
180.0[7.09] 600bills

Installation

Rubber stopper

5 FIG.01

When LX7-A is installed in down stacker direction, please remove the rubber stopper.

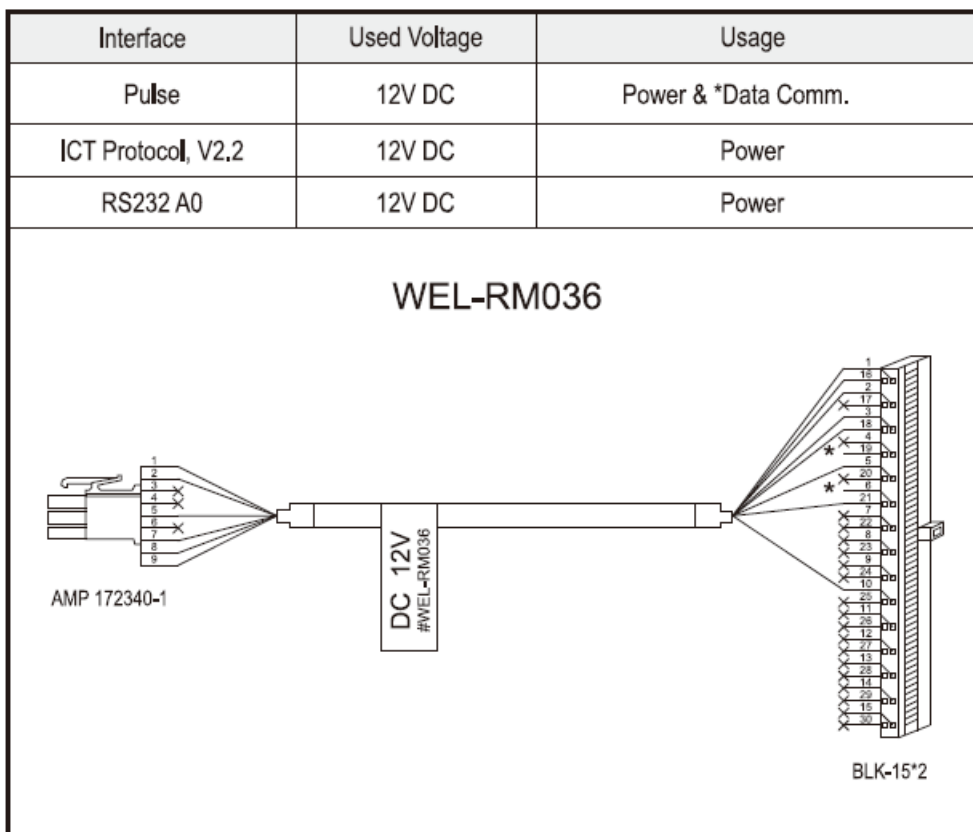**Harness Application**

Interface	Used Voltage	Usage	Harness	Page
Pulse	12V DC	Power & *Data Comm.	WEL-RM036	9
		Extension Wire	CU-R961-1	10
Pulse	117V AC	Power & *Data Comm.	WEL-RM035	10
		Extension Wire	WEL-RM012	11
ICT Protocol V2.2	12V DC	*Data Comm.	WEL-RV706-1 or 2-BA-RV706	11
		Power	WEL-RM036	9
		Extension Wire	CU-R961-1	10
NISR	117V AC	Power & *Data Comm.	2-BA-RM037	12
RS232 A0	12V DC	*Data Comm.	WEL-RV706-1 or 2-BA-RV706	11
		Power	WEL-RM036	9
		Extension Wire	CU-R961-1	10
ccTalk	12V DC	Power & *Data Comm.	WEL-RM039	13

Interface	Used Voltage	Usage
Pulse	12V DC	Power & *Data Comm.
ICT Protocol, V2.2	12V DC	Power
RS232 A0	12V DC	Power

WEL-RM036

AMP 172340-1

DC 12V
#WEL-RM036

BLK-15*2

AMP 172340-1
BACK VIEW
+AMP

PIN 1- YELLOW..............................INHIBIT+
PIN 2- GREEN................................INHIBIT-
PIN 5- RED&BLACK................12V DC(Power)
PIN 7- BLUE....................CREDIT_RELAY (N.O.)
PIN 8- PURPLE..................CREDIT_RELAY (Common)
PIN 9- BROWN & WHITE......................GND(Power)

BLK-15*2

PIN 1- PURPLE...........CREDIT_RELAY (Common)
PIN 3- WHITE...................................ENABLE-
PIN 5- YELLOW..................................INHIBIT+
PIN 10- BROWN.................................GND(Power)
PIN 16- BLUE..................CREDIT_RELAY (N.O.)
PIN 17- RED..............................12V DC(Power)
PIN 18- BLACK...................................ENABLE+
PIN 21- GREEN..................................INHIBIT-

Interface	Used Voltage	Usage
Pulse	12V DC	Extension Wire for RM036
ICT Protocol, V2.2	12V DC	Extension Wire for RM036
RS232 A0	12V DC	Extension Wire for RM036

CU-R961-1

AMP 172332-1

DC 12V #CU-R961-1-S

2464 22 AWG 6C CABLE

202
202
202
202
202
202
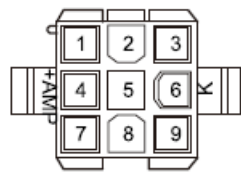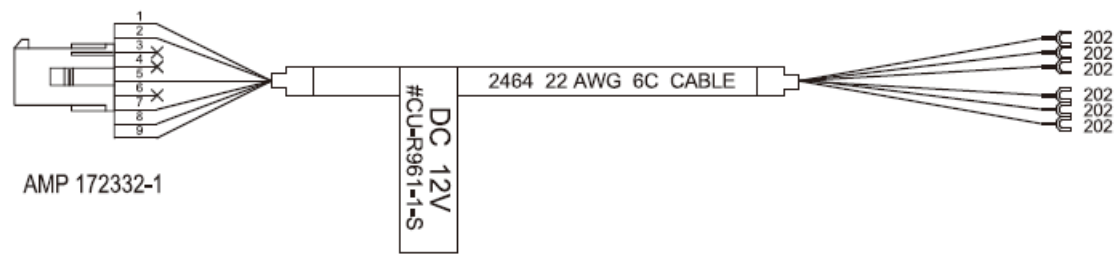
AMP 172332-1
BACK VIEW

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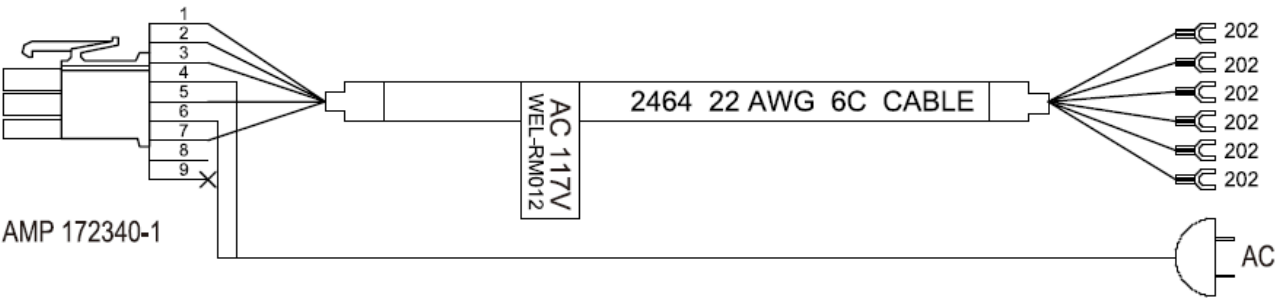PIN 8- PURPLE.......CREDIT-RELAY-COM
PIN 9- ORANGE.............GND(POWER-IN)

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

WEL-RM035

AMP 172340-1

AC117V
#WEL-RM035

BLK-15*2

AMP 172340-1
BACK VIEW

+AMP
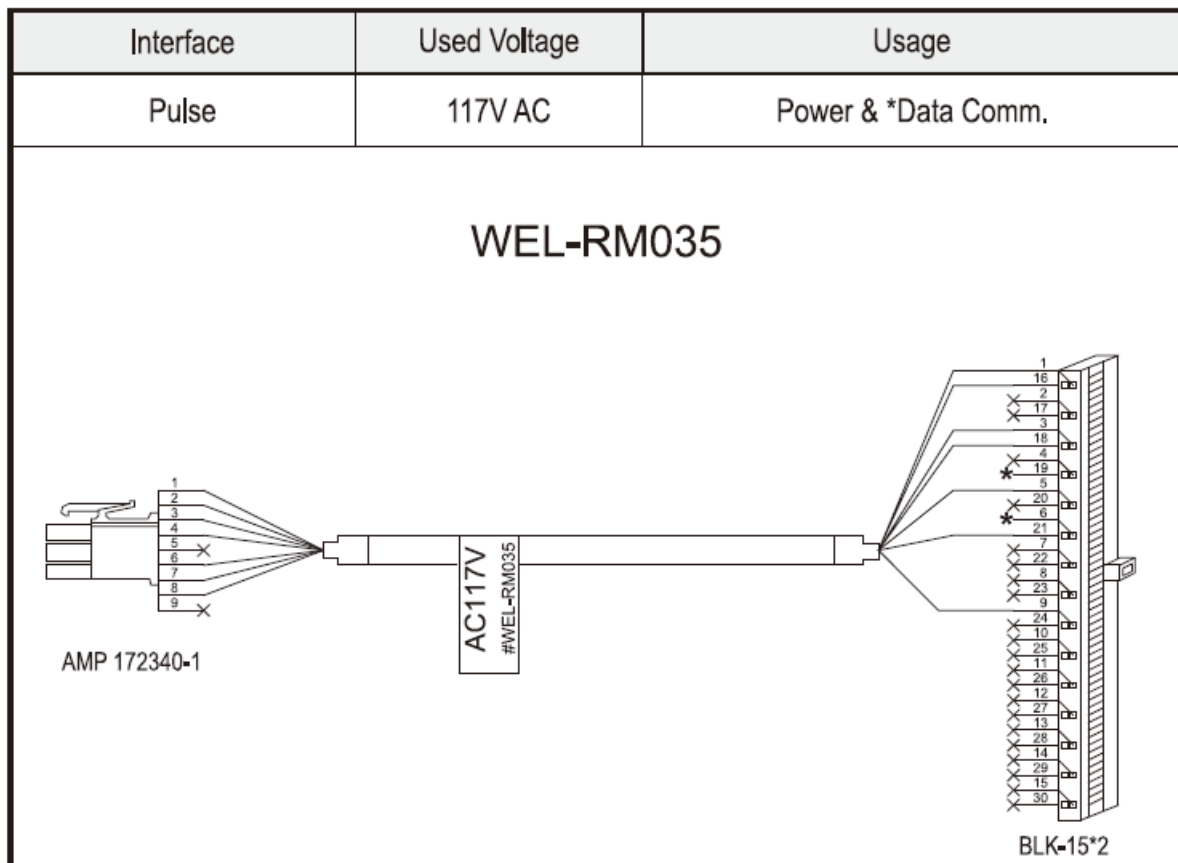
PIN 1- YELLOW..........................NEUTRAL INHIBIT
PIN 3- BROWN...................................HOT ENABLE
PIN 4- BLACK.........................117VAC HOT (Power)
PIN 6- WHITE.................117VAC NEUTRAL (Power)
PIN 7- BLUE...........................CREDIT_RELAY (N.O.)
PIN 8- PURPLE...............CREDIT_RELAY (Common)

PIN 1- PURPLE................CREDIT_RELAY (Common)
PIN 3- RED......................................NEUTRAL ENABLE
PIN 5- YELLOW...........................NEUTRAL INHIBIT
PIN 9- WHITE.................117VAC NEUTRAL (Power)
PIN 16- BLUE............................CREDIT_RELAY (N.O.)
PIN 18- BROWN.....................................HOT ENABLE
PIN 21- BLACK............................117VAC HOT (Power)

Interface	Used Voltage	Usage
Pulse	117V AC	Extension Wire for WEL-RM035

WEL-RM012

AMP 172340-1

AC 117V
WEL-RM012

2464 22 AWG 6C CABLE

202
202
202
202
202
202

AC

PIN 1- YELLOW.....................................NEUTRAL INHIBIT+
PIN 2- RED...NEUTRAL INHIBIT-
PIN 3- ORANGE...HOT ENABLE
PIN 4- BLACK................................117VAC 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

PURPLE..............CREDIT_RELAY (COMMON)
BLUE............................CREDIT_RELAY (N.O.)
GREEN..............................EARTH - GROUND
ORANGE....................................HOT ENABLE
RED...................................NEUTRAL INHIBIT-
YELLOW..........................NEUARAL INHIBIT+

Interface	Used Voltage	Usage
ICT Protocol, V2.2	12V DC	*Data Comm.
RS232 A0	12V DC	*Data Comm.

WEL-RV706-1

D-SUB (F) — ICT PROTOCOL WEL-RV706-1 — 26 AWG 6C PHONE CABLE — RJ-45

2-BA-RV706
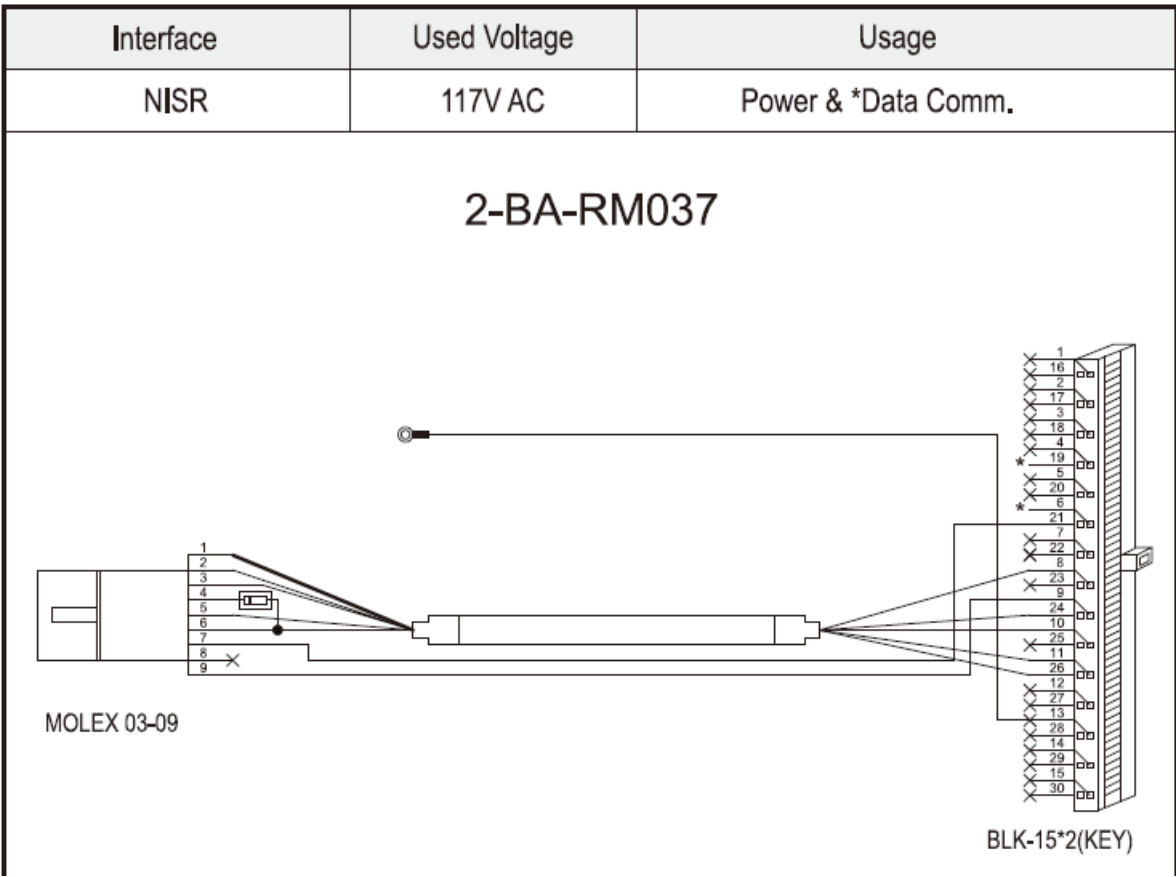

D-SUB 9F — ICT PROTOCOL #2-BA-RV706 — 26 AWG 6C PHONE CABLE — RJ-45
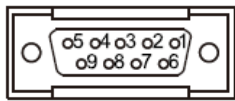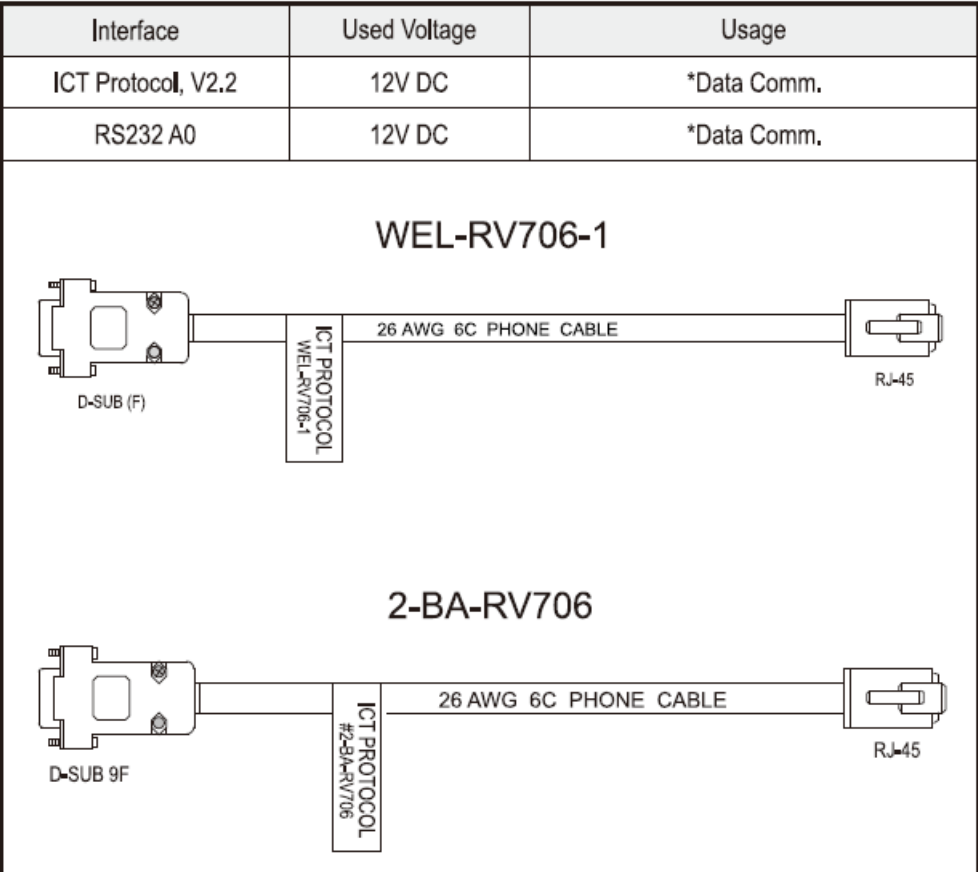
D-SUB 9F TOP VIEW

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
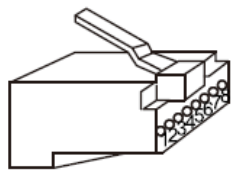
RJ-45 VIEW

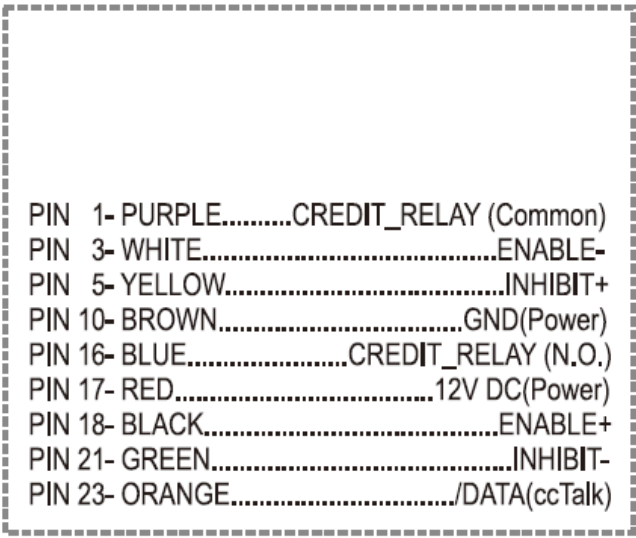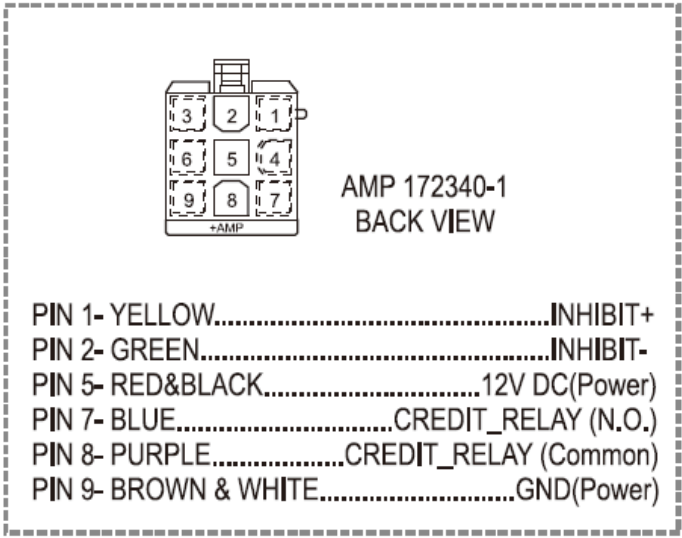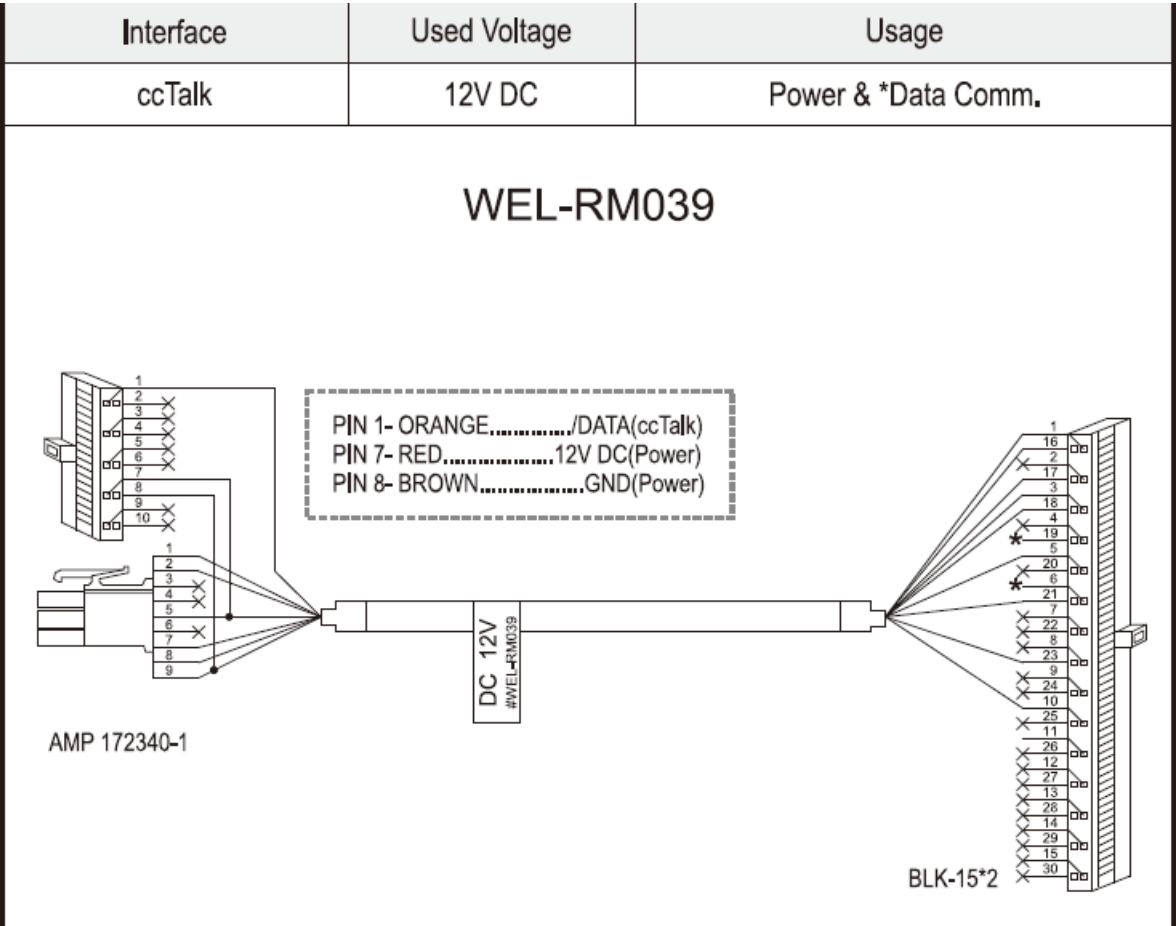PIN 1- BLUE....................GND
PIN 2- YELLOW..............TX22
PIN 3- GREEN................RX22
PIN 4- X................RESERVED
PIN 5- X................RESERVED
PIN 6- RED....................VCC
PIN 7- BLACK.................RX11
PIN 8- WHITE...................TX11

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

2-BA-RM037

MOLEX 03-09

BLK-15*2(KEY)

⑦ ④ ①
⑧ ⑤ ②
⑨ ⑥ ③   MOLEX 03-09
BACK VIEW

PIN 1- BLACK...GND
PIN 2- WHITE.../INTERRUPT
PIN 3- YELLOW.../DATA
PIN 4- DIODE(-)
PIN 5- RED../SEND
PIN 6- BLACK & DIODE(+).............../ACCEPT-ENABLE
PIN 7- BLACK.............................117V AC-HOT
PIN 9- WHITE.................117V AC- NEUTRAL

PIN 8- WHITE.../INTERRUPT
PIN 9- WHITE/BLACK..............117V AC- NEUTRAL
PIN 10- BLACK...GND
PIN 11- YELLOW.../DATA
PIN 13- GREEN & YELLOW..........EARTH_GROUND
PIN 21- BLACK....................................117V AC-HOT
PIN 24- PURPLE........................./ACCEPT-ENABLE
PIN 26- RED../SEND

Interface	Used Voltage	Usage
ccTalk	12V DC	Power & *Data Comm.

WEL-RM039

PIN 1- ORANGE.............../DATA(ccTalk)
PIN 7- RED.................12V DC(Power)
PIN 8- BROWN.............GND(Power)

AMP 172340-1

DC 12V
#WEL-RM039

BLK-15*2

AMP 172340-1
BACK VIEW
+AMP

PIN 1- YELLOW...INHIBIT+
PIN 2- GREEN...INHIBIT-
PIN 5- RED&BLACK..............................12V DC(Power)
PIN 7- BLUE..............................CREDIT_RELAY (N.O.)
PIN 8- PURPLE...................CREDIT_RELAY (Common)
PIN 9- BROWN & WHITE...........................GND(Power)

PIN 1- PURPLE..........CREDIT_RELAY (Common)
PIN 3- WHITE...ENABLE-
PIN 5- YELLOW.......................................INHIBIT+
PIN 10- BROWN..................................GND(Power)
PIN 16- BLUE.....................CREDIT_RELAY (N.O.)
PIN 17- RED.....................................12V DC(Power)
PIN 18- BLACK...ENABLE+
PIN 21- GREEN...INHIBIT-
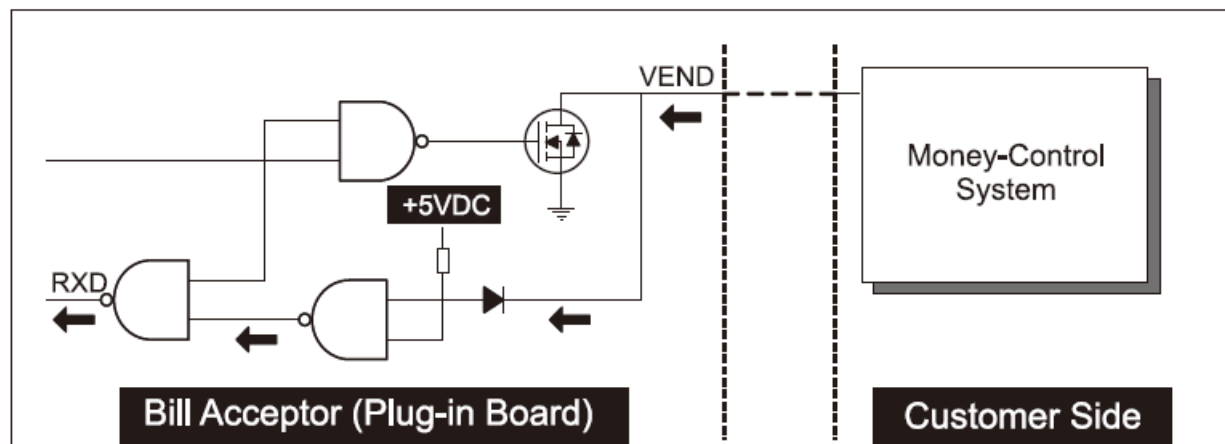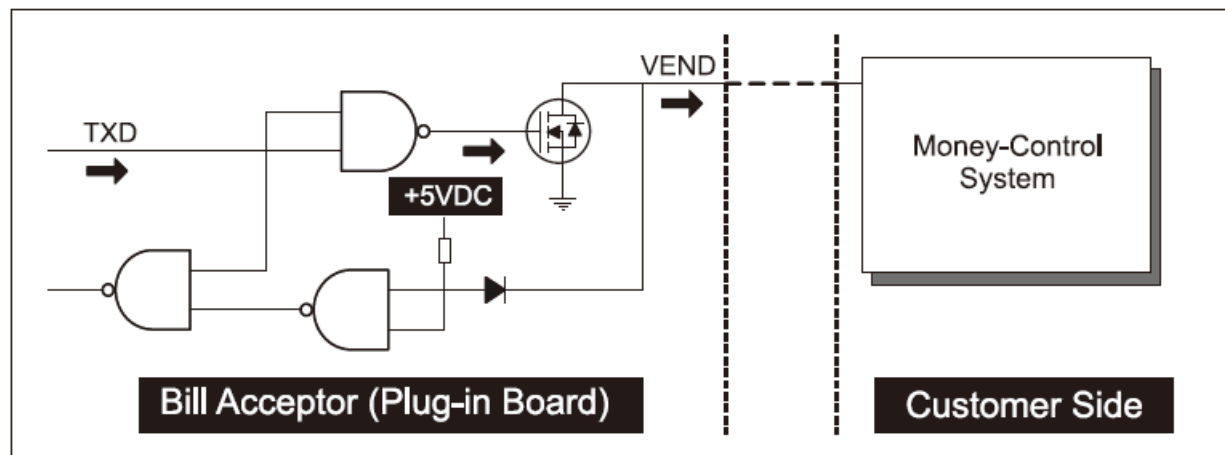PIN 23- ORANGE.............................../DATA(ccTalk)

1/0 Circuit
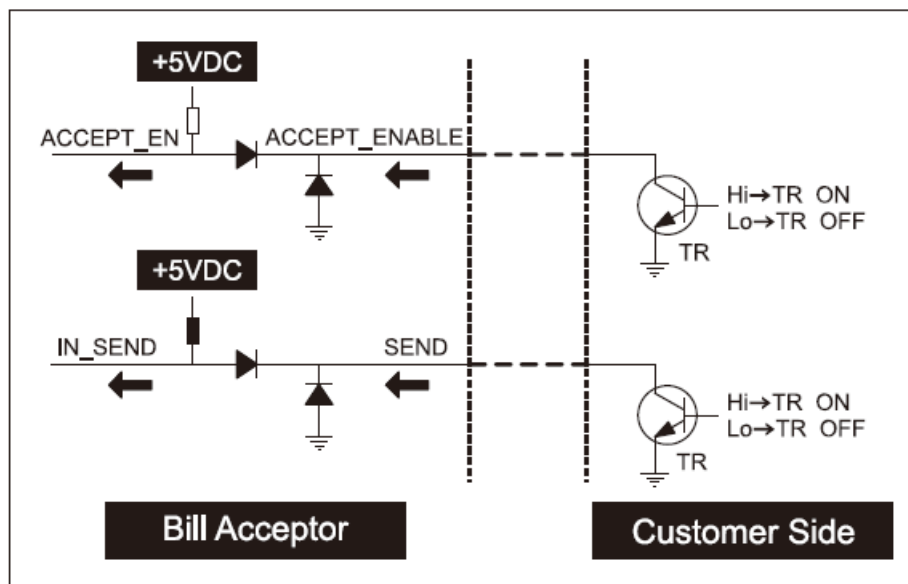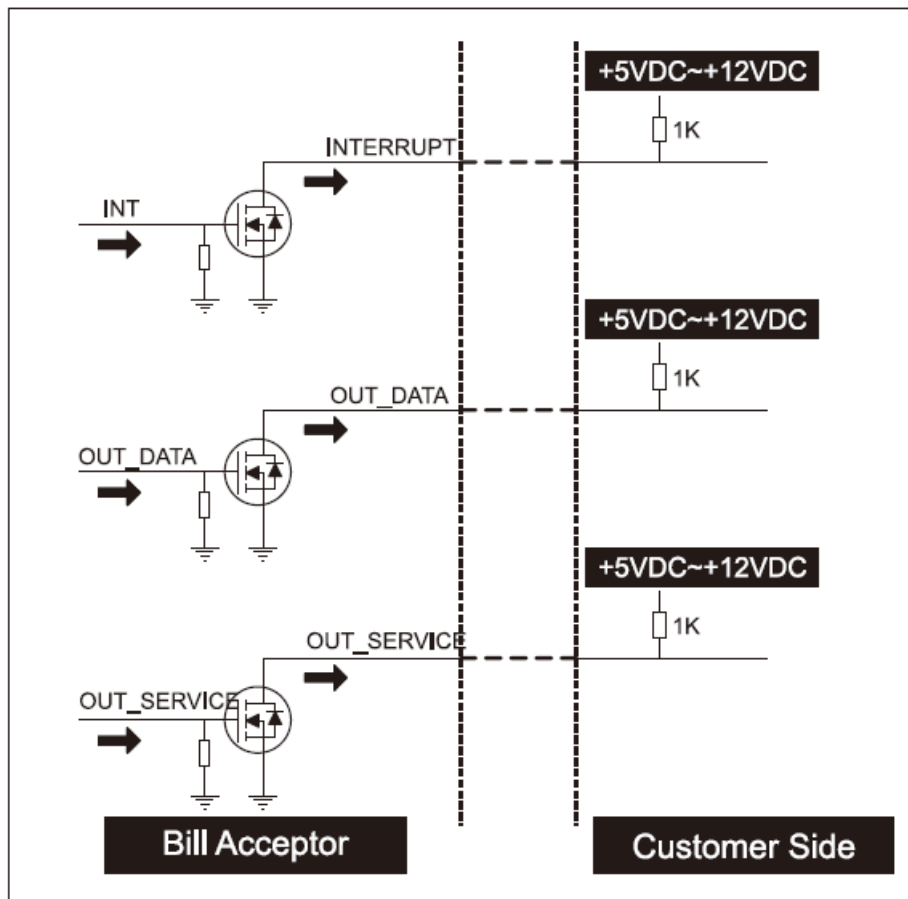**Pulse Interface.**
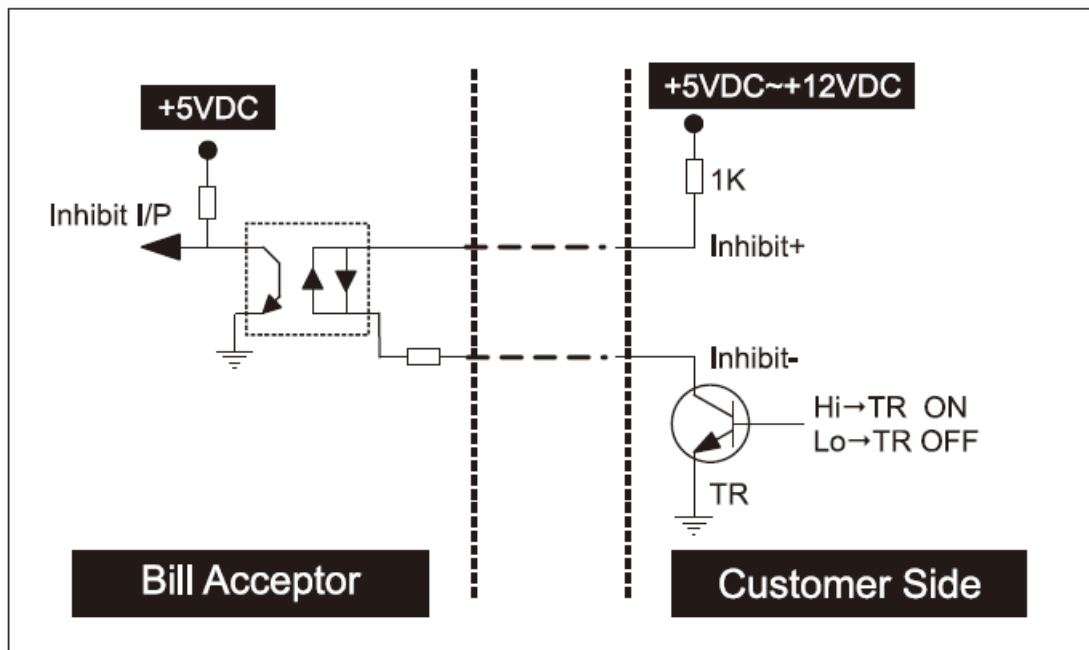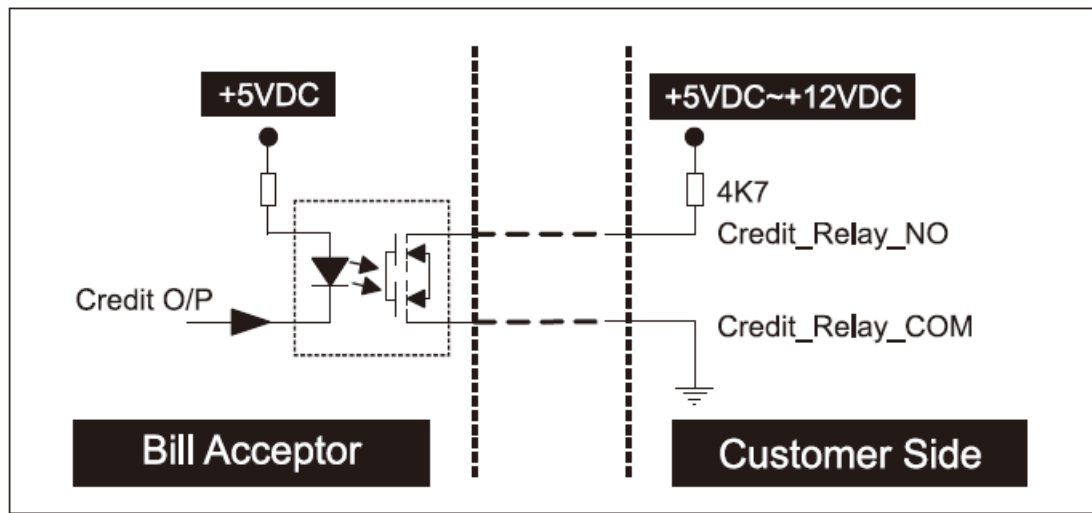
**ICT Protocol<RS232> & V2.2 Interface.**
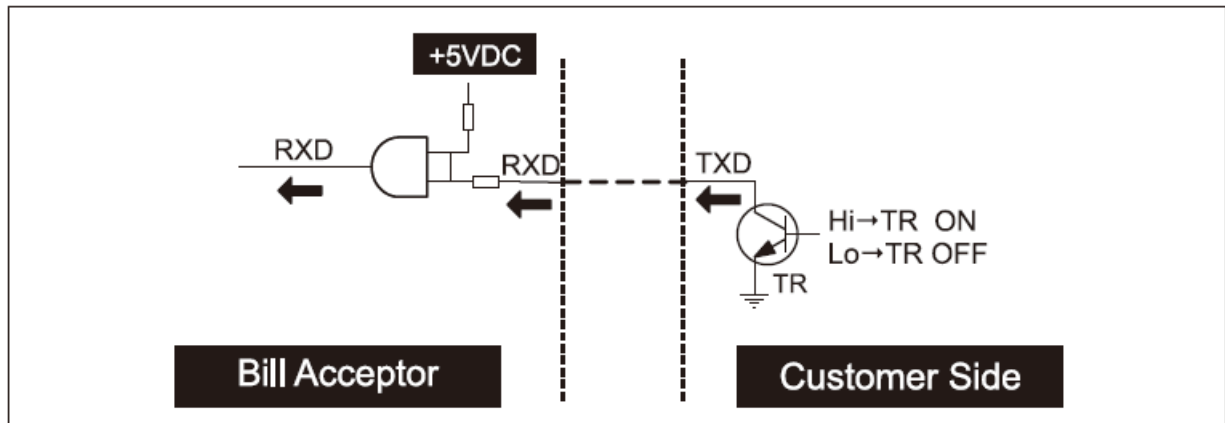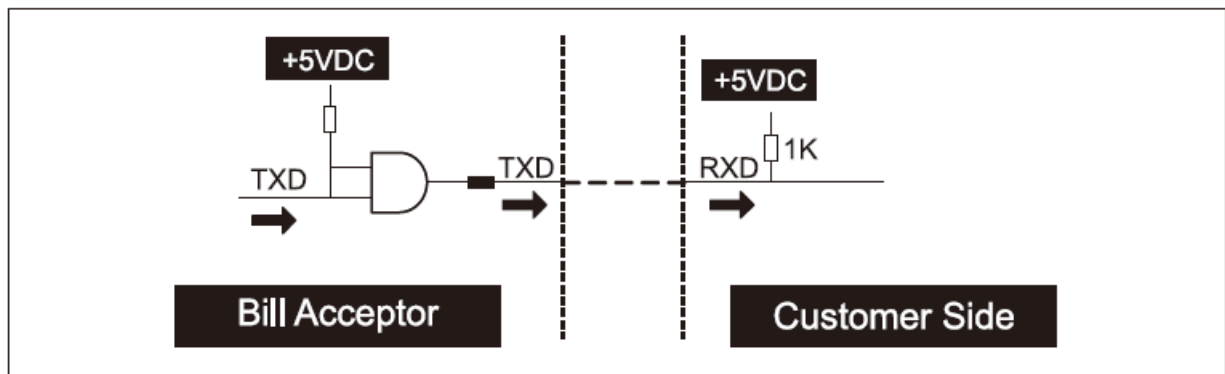
**ccTalk Interface**

NISR Interface.

DIP Switch Setting

There are two serial DIP switches which are set on the side of LX7-A(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-A DIP Switch Setting Guide" in the package for more details.
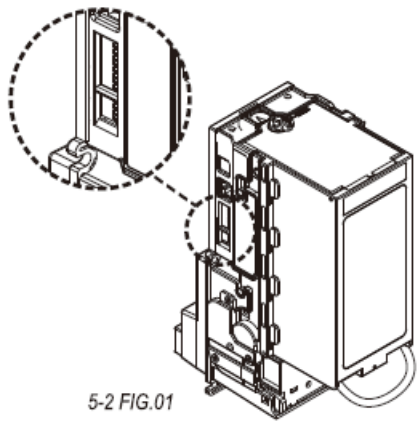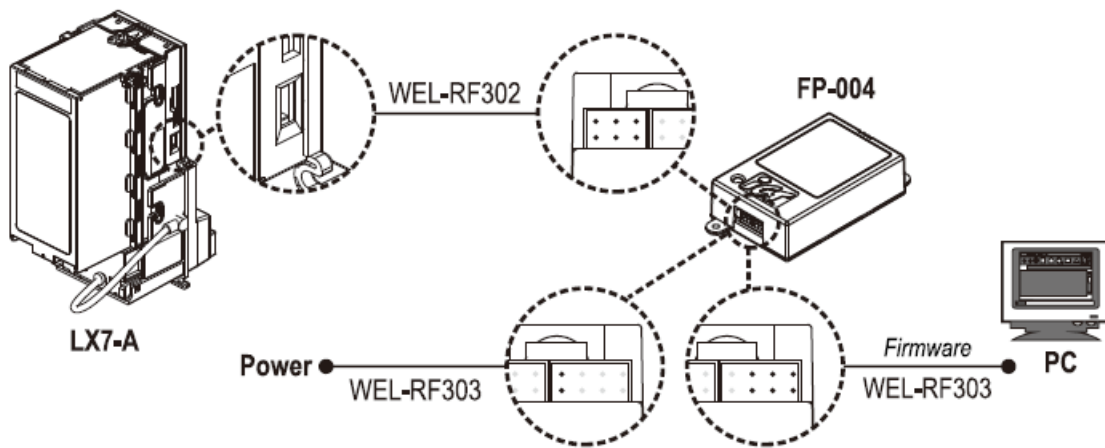
5-2 FIG.01
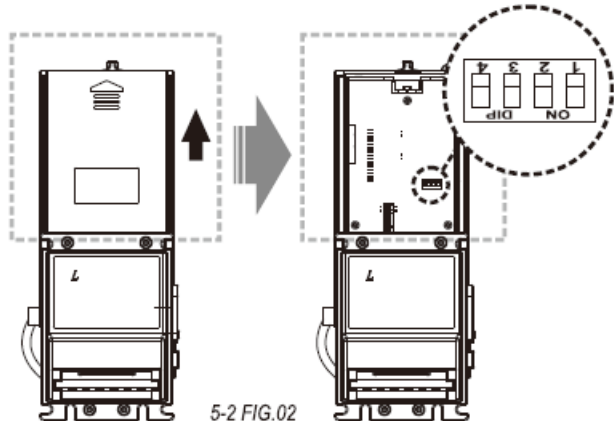
5-2 FIG.02

Software Download and Upgrade

To download and upgrade the software to LX7-A, 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.
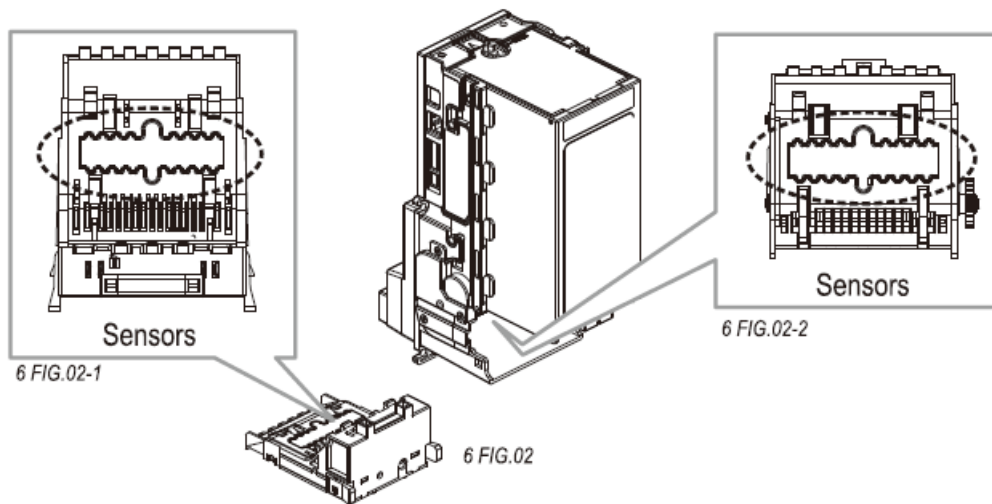Please turn on Bill Acceptor after connecting.
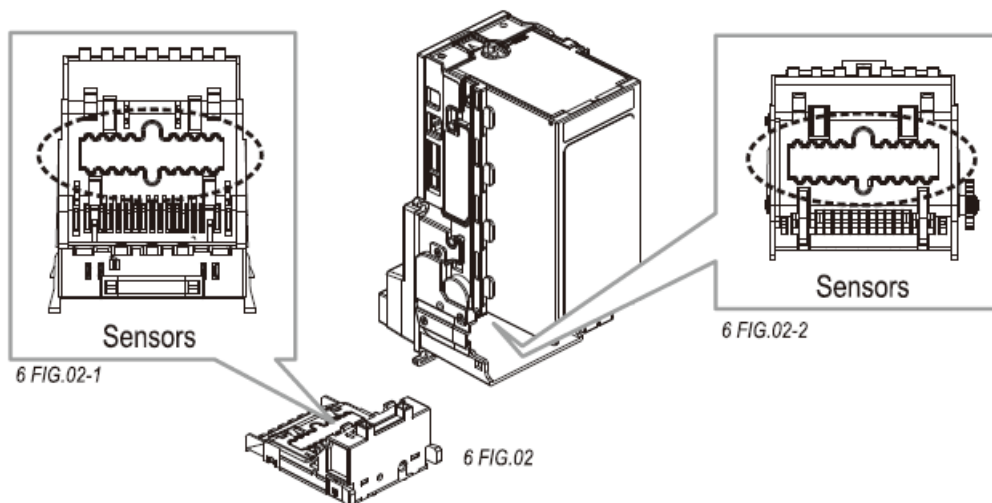

Maintenance

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.
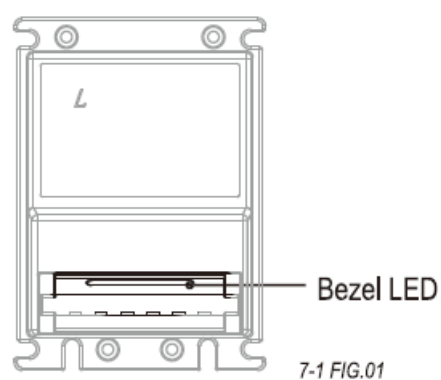
Sensors

6 FIG.02-1

Sensors

6 FIG.02-2

6 FIG.02

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

Sensors

6 FIG.02-1

Sensors

6 FIG.02-2

6 FIG.02

Trouble Shooting

Bezel LED Errors

Bezel LED

7-1 FIG.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.

Back LED Errors

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.

◆ Tubular lock
◆ Plastic Knob

① Slide Button

7-2 FIG.01

Back LED

◆ Tubular lock
Turn the key clockwise.

◆ Plastic Knob
Turn clockwise.

② ③

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

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fae@ictgroup.com.tw (For Customer Service)
Website: **www.ictgroup.com.tw**

Documents / Resources

iCT LX7-A Bill Acceptor [pdf] Installation Guide
H6843F-R, H6843G-R, LX7-A, LX7-A Bill Acceptor, Bill Acceptor, Acceptor

Manuals+,