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Bill Acceptor

LV77

Series

Installation Guide

International Currency Technologies Corp.

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LV77

1. Introduction

1-1. Overview

LV77 Series includes LV77-L and LV77-S, which are designed by ICT as different sizes of bezel to fit users' needs.

Note: L-large bezel, S-Small bezel.

1-2. Features

- ◆ Colorful LED light.
- ◆ Series identify sensors.
- ◆ Sharing main unit.
- ◆ Non-skid stacker.
- ◆ Numerous interfaces available.
- ◆ Bills from 67mm, up to 77mm wide accepted.
- ◆ Anti-Stringing.

2. Specifications

General

Acceptance Rate

96% or greater

Note: The incomplete bills such as extremely dirty, wet, broken or wrinkled ones are excluded.

Bill Insertion

Four-way acceptable

Transaction Speed

Approx. 1.5 seconds to stack

Note: The acceptance speed might be a little bit slower under 0°C degree without any effect upon Bill Acceptor.

Interface

VCCS (Type 1), VCCS (Type 2),
Parallel

Installation

Indoor/ Vertical

Electrical**Power Source**

22.8 ~ 25.2V DC

Power Consumption

Standby : 6W
Operation: 15W
Maximum: 18W

Operation Environment

Operation Temperature: -15°C~60°C
Storage Temperature: -30°C~70°C
Humidity: 30%~85RH (no condensation)

Mechanical**Outline Dimension**

Refer to Page.4

Bill Capacity

Approx. 200 bills (200~230)

Weight

Approx. 1.25kg

3. Packing List**Main**

Bill Acceptor

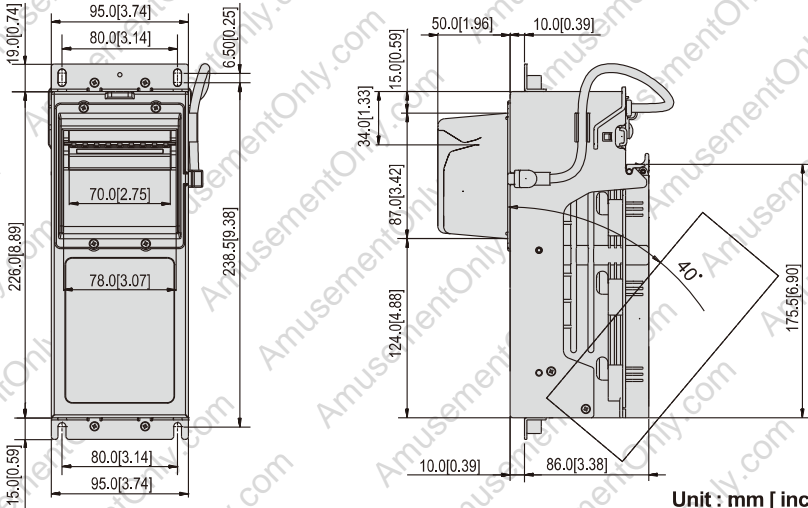
Accessory

Harnesses: WEL-RLV7706
LV77 Installation Guide
LV77 DIP Switch Setting Guide

LV77

4. Dimension

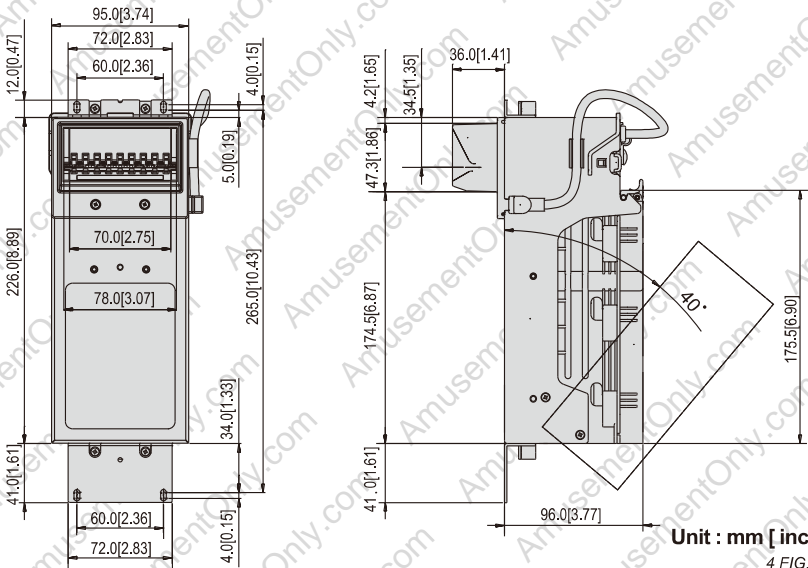
LV77-L



Unit : mm [inch]

4 FIG.01

LV77-S



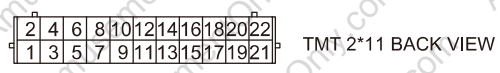
Unit : mm [inch]

4 FIG.02

5. Installation

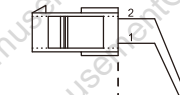
5-1. Harness Application

WEL-RLV7734

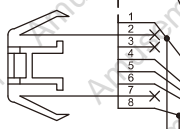


- PIN 1- ORANGE.....VCCS TX
- PIN 2- BLUE.....SYNC
- PIN 3- YELLOW.....VCCS RX
- PIN 4- BLACK.....L_GND
- PIN 5- RED.....E_+24V
- PIN 11- WHITE/BLACK.....TX11
- PIN 12- RED/BLACK.....RX12
- PIN 15- PINK.....STACK FULL
- PIN 16- BROWN.....CREDIT 1000
- PIN 17- GREEN.....ESCROW
- PIN 18- LIGHT GREEN.....OPERATE
- PIN 19- PURPLE.....INHIBIT
- PIN 20- GRAY.....ERROR
- PIN 21- LIGHT BLUE.....ACCEPT
- PIN 22- WHITE&BLACK.....RETURN

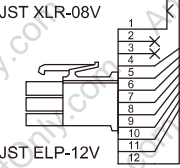
MOLEX 5559-02P



JST XLR-08V

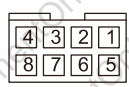
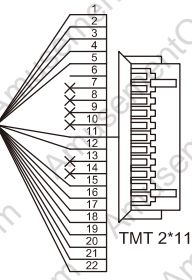


JST ELP-12V

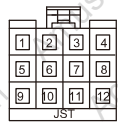


DC 24V
#WEL-RLV7734

2464 24AWG 15C CABLE BLACK



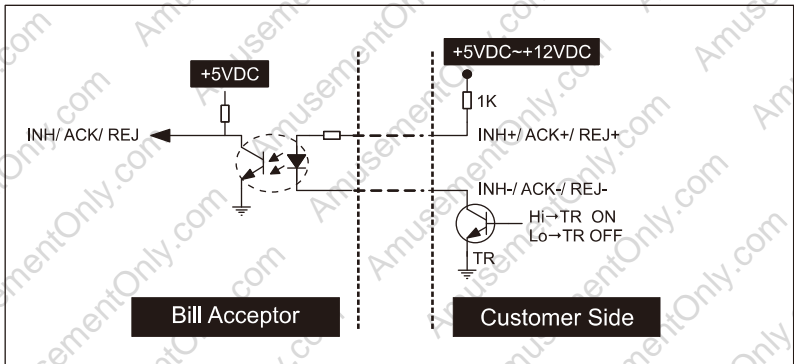
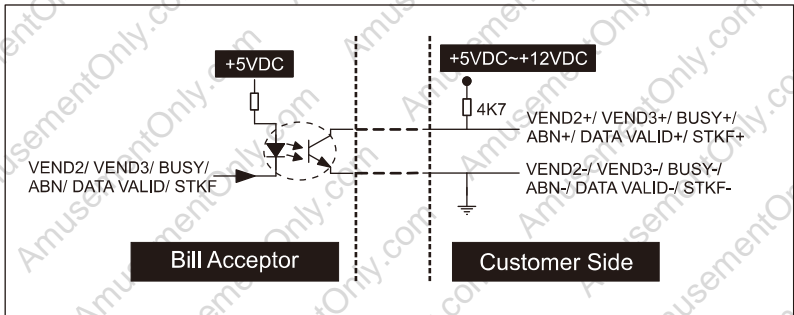
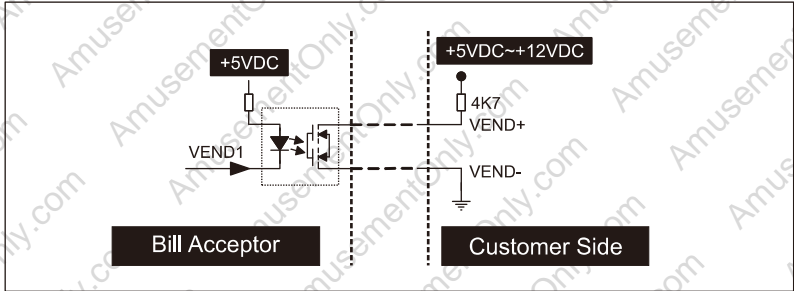
- PIN 1- RED.....E_+24V
- PIN 4- BLUE.....SYNC
- PIN 5- YELLOW.....VCCS RX
- PIN 6- ORANGE.....VCCS TX
- PIN 8- BLACK.....L_GND



- PIN 1- RED.....E_+24V
- PIN 4- BROWN.....CREDIT 1000
- PIN 5- LIGHT GREEN.....OPERATE
- PIN 6- GRAY.....ERROR
- PIN 7- WHITE&BLACE.....RETURN
- PIN 8- LIGHT BLUE.....ACCEPT
- PIN 9- PURPLE.....INHIBIT
- PIN 10- GREEN.....ESCROW
- PIN 11- PINK.....STACK FULL
- PIN 12- BLACK.....L_GND

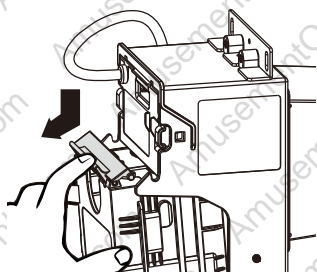
5-1-1. I/O Circuit
Parallel Interface

5-1-1 FIG.01

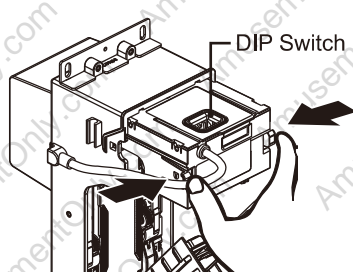


5-2. DIP Switch Setting

DIP switch setting varies according to different currencies which are used by users, for DIP switch setting which fits your need, please check “LV77 DIP Switch Setting” installation guide in the package.



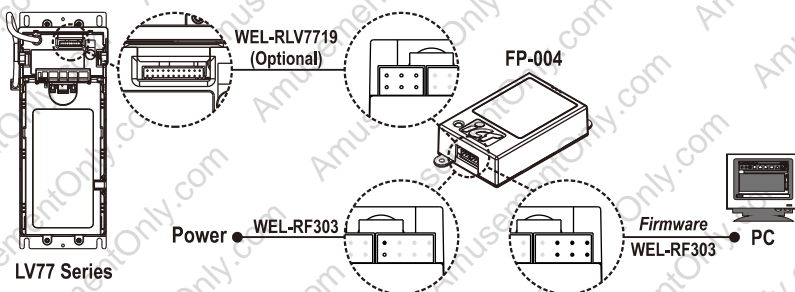
5-2 FIG.01



5-2 FIG.02

5-3. Software Download and Upgrade

To download and upgrade the software to LV77 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.



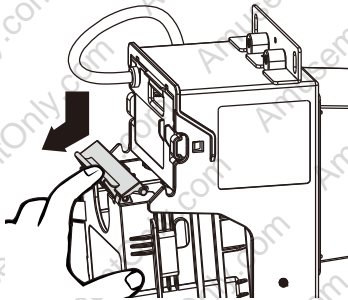
Power must be applied to BA AFTER connection.

6. Maintenance

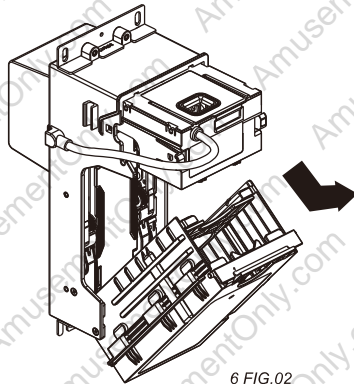
To make sure the bill acceptor always works smoothly, we suggest you to clean the internal parts regularly.

To clean the internal parts:

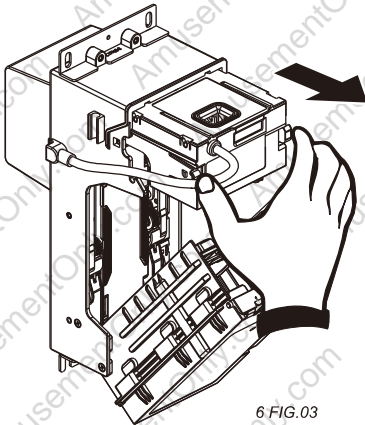
1. Hold the bezel with one hand, unlatch the bill box by pulling on the top latch with the other hand.
2. Lift the bill box up and take it out.



6 FIG.01



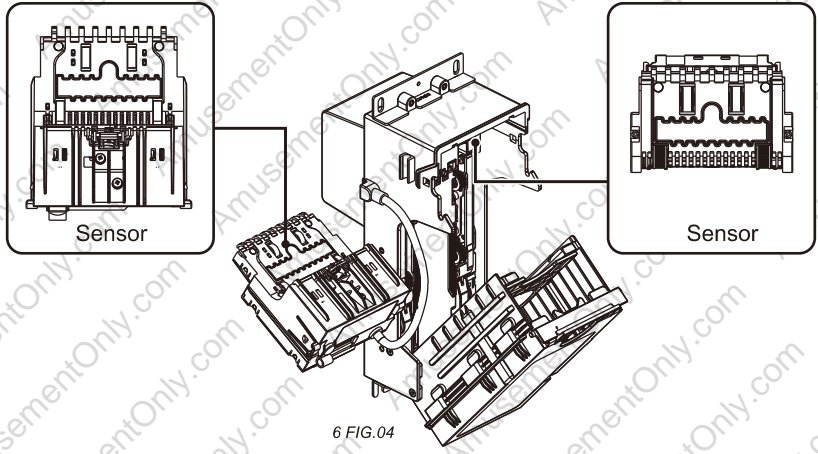
6 FIG.02




6 FIG.03

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

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

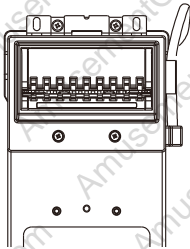


6 FIG.04

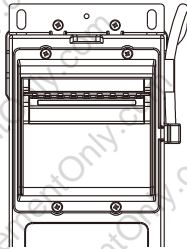
| | | |
|---|---|--|
|  | Maintenance Notice | |
| | <i>(Any improper maintenance will result invalid warranty.)</i> | |
| Recommended | Mild, non-abrasive, soap water. | |
| DO NOT USE | Organic solvent , Alcohol, Volatility liquid. | |

7. Troubleshooting

Bezel LED



7 FIG.01



7 FIG.02

7 TABLE 01

| LED Flashes | | Status | Corrective Actions |
|-------------------|------------|---|--|
| Green | Red | | |
| Stays ON | N/A | No error exist-acceptor is normal. | N/A |
| LED is OFF | | Inhibit activated. | Inspect for the settings and connections between bill acceptor and vending machine. |
| N/A | 1 | Device is not ready. | Inspect for connections between bill acceptor and vending machine, make sure the interface on bill acceptor is suitable for vending machine. |
| 1 | 1 | Bill jammed. | Remove the stuck bill or foreign object on the bill path. |
| 1 | 2 | Stacker full. | Empty the bill box. |
| 1 | 3 | Anti-string sensor error or a stringing attempt has detected. | Inspect for foreign objects on sensor or bill path and clean. |
| 1 | 4 | Acceptor sensor error. | Inspect for foreign objects around belts and clean. |
| 1 | 5 | Stack motor or Sensor error. | |
| 1 | 6 | Security teeth or Sensor error. | Make sure the security teeth are in position. |

7 TABLE 02

| LED Flashes | | Status | Corrective Actions |
|-------------|-----|-------------------------------|---|
| Green | Red | | |
| 2 | 1 | Identify sensor or LED error. | Inspect for foreign objects on the identify sensor and clean. |
| 2 | 2 | Solenoid error. | Make sure the security teeth are in position. |
| 2 | 3 | Bill box has been removed. | Replace the bill box. |

7 TABLE 03

| LED Flashes | | Status | Corrective Actions |
|-------------|------|---|--|
| Green | Blue | | |
| 1 | 1 | Input sensors error. (The input sensors are on both sides of the bill path.) | Inspect for foreign objects on both input sensors and clean. |
| N/A | 1 | Left input sensor error. (The left input Sensor is on the left side of the bill path.) | Inspect for foreign objects on the left input sensor and clean. |
| 1 | N/A | Right input sensor error. (The right input Sensor is on the left side of the bill path.) | Inspect for foreign objects on the right input sensor and clean. |



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



Taiwan

International Currency Technologies Corporation

No.28, Ln. 15, Sec. 6, Minquan E. Rd., Neihu Dist., Taipei City 114, Taiwan

sales@ictgroup.com.tw (For Sales)

fae@ictgroup.com.tw (For Customer Service)

Website: www.ictgroup.com.tw

