



Bill Recycler _____

NE77-BR



_____ Installation Guide

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1. Introduction

1-1. Overview

The NE77-BR Bill recycler is equipped with a recycler and a stacker in high-capacity. This model is offering a total solution for bill transactions including the high efficiency to receive and to give changes in banknotes.

1-2. Features

- High efficiency bill recycling
- High capacity cash box and recycling unit
- Universal design for multiple applications
- Optical anti-fishing function.

2. Specifications

General

Acceptance Rate 96% or greater

Note: The acceptance rate excludes notes that are dirty, wet, broken or wrinkled.

Bill Insertion Four ways

Transaction Speed Approx. 4 seconds to Recycler
Approx. 5 seconds to Bill Box

Interface RS232(ICT Protocol), ccTalk, MDB

Electrical

Power Consumption 12V DC- Standby: 0.35A, 4.2W
Operation: 2.3A, 27.6W
Maximum: 4A, 48W
34V DC- Standby: 0.4A, 13.6W
Operation: 2.5A, 85W
Maximum: 3A, 103W

Power Source 12V DC(10.8V~13.2V)
34V DC

Operation Environment Operation Temperature: 0°C~50°C
Storage Temperature: -30°C~70°C
Humidity: 30%~85%RH
(no condensation)

Mechanical

Outline Dimension Refer to page. 4

Bill Capacity 50 notes (Recycler)
300 notes (Bill box)

Escrow Up to 5 notes (ICT Protocol)

Weight Approx. 3 kg

Bill Accepted Width: 62~77mm / Length: <160mm

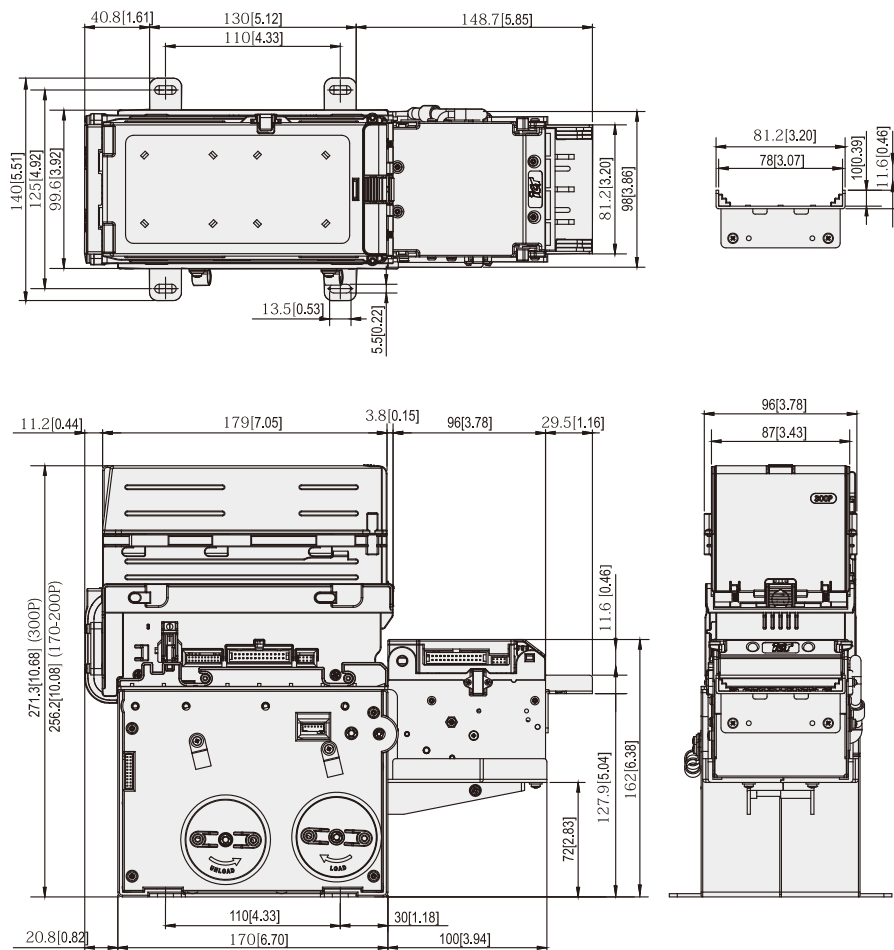
Installation Indoor

3. Packing List

Main Bill Recycler

Accessory Harnesses: Refer to 5-1
NE77-BR Installation Guide
NE77-BR DIP Switch Setting Guide

4. Dimension



Unit : mm [inch]
4 FIG.01

5. Installation

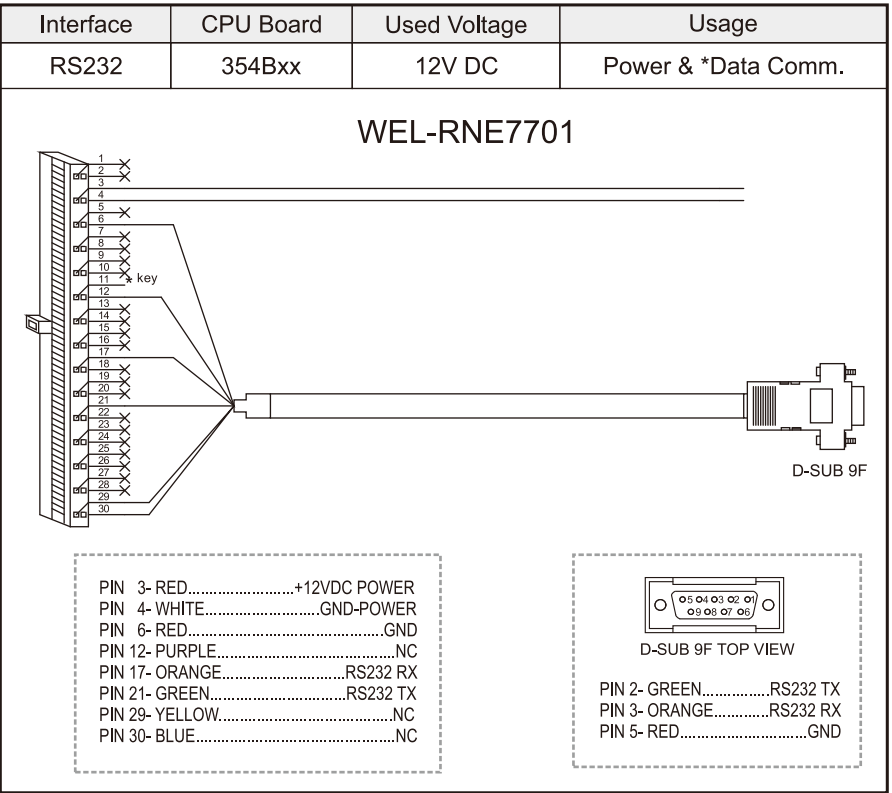
5-1. Harness Application

5-1.TABLE 01

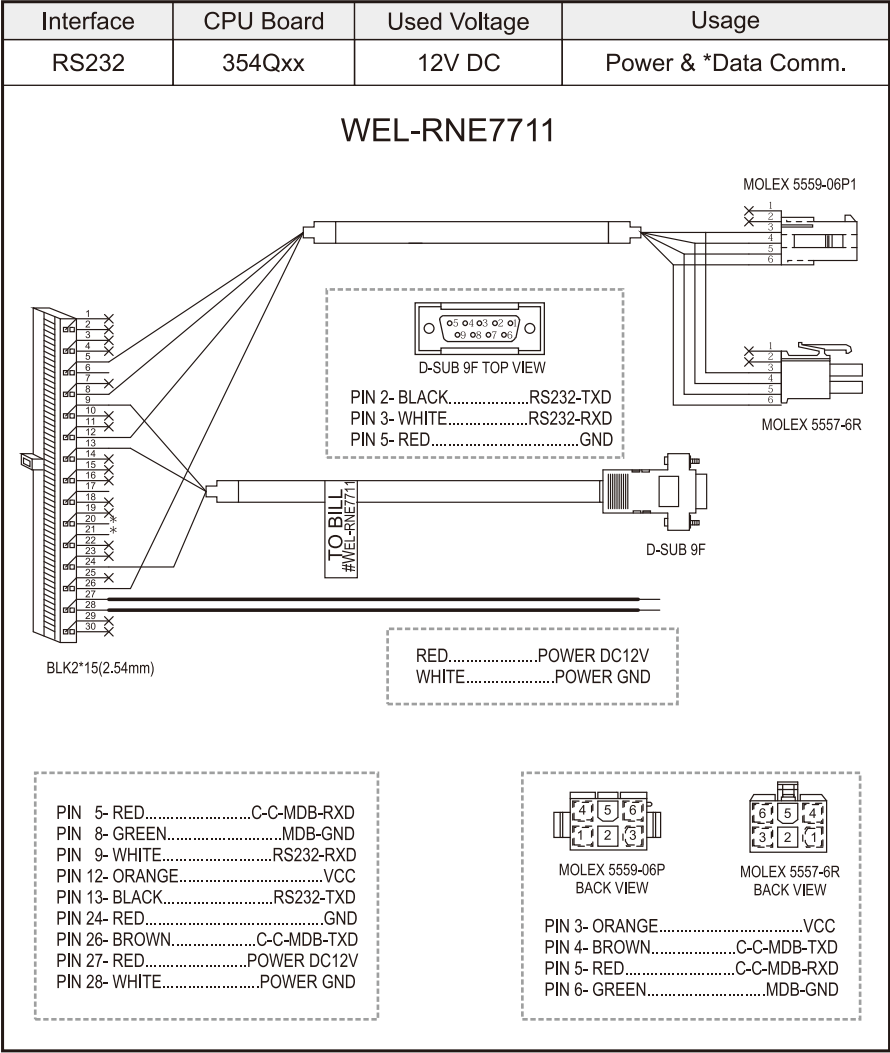
Interface	CPU Board	Used Voltage	Usage	Harness	Page
RS232	354Bxx	12V DC	Power & *Data Comm.	WEL-RNE7701	5
RS232	354Qxx	12V DC		WEL-RNE7711	6
ccTalk	354Bxx	12V DC		WEL-RE7732	7
MDB	354Qxx	34V DC		WEL-RNE7707	8

*Data Comm. : Data Communication.

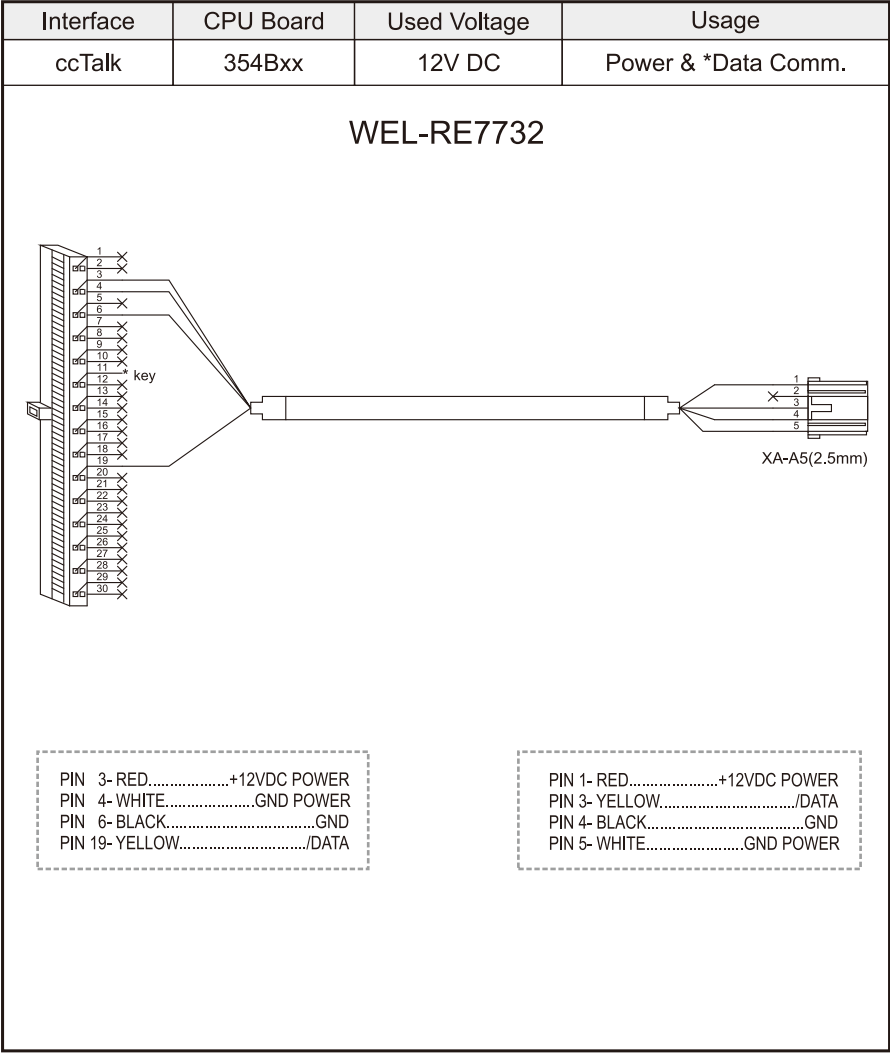
5-1 FIG.01



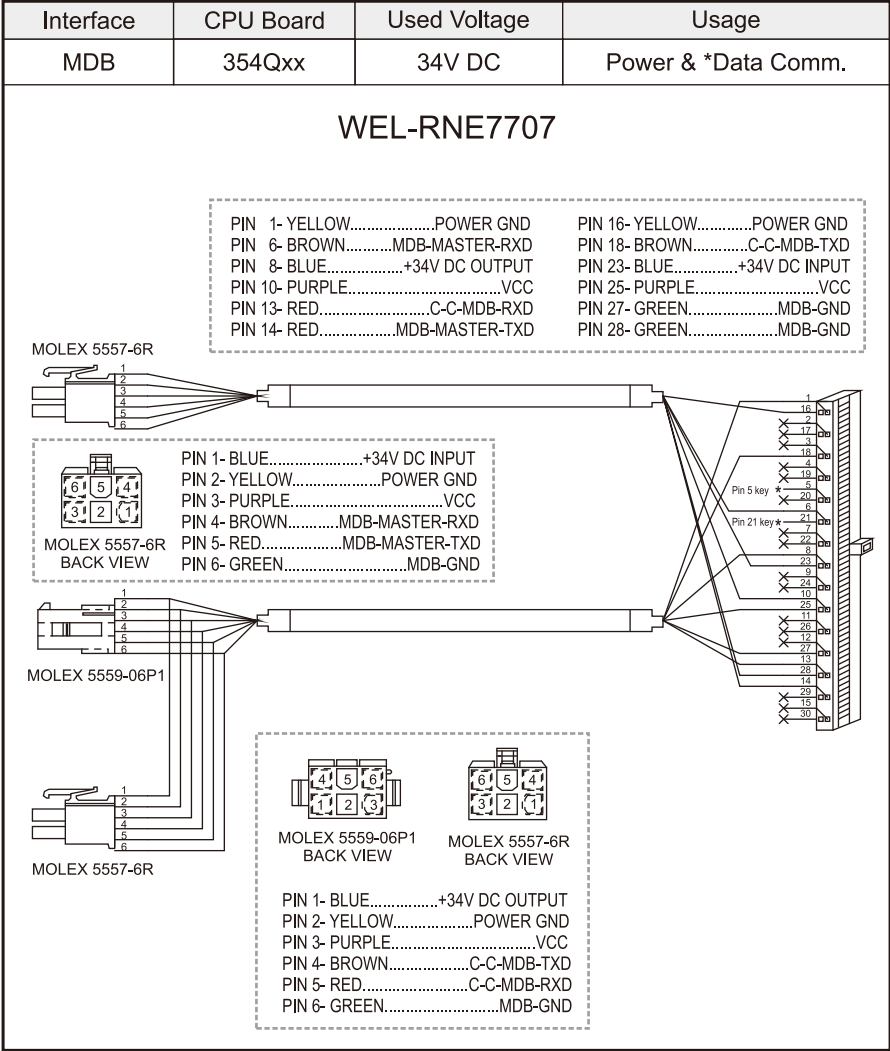
5-1 FIG.02



5-1 FIG.03

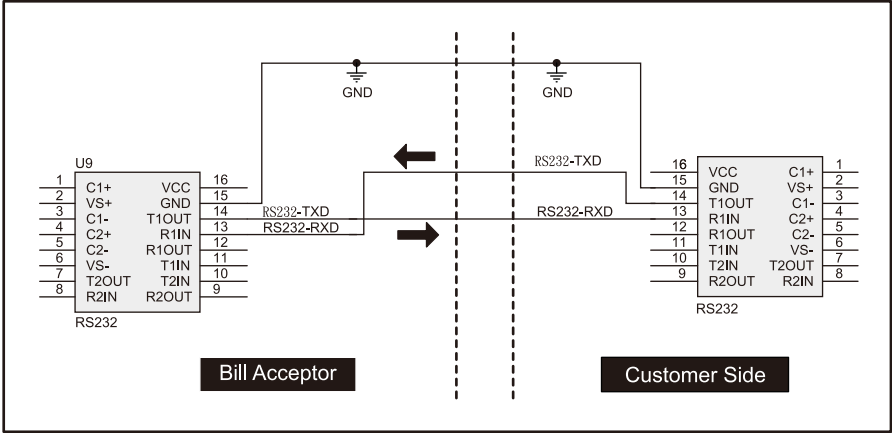


5-1 FIG.04



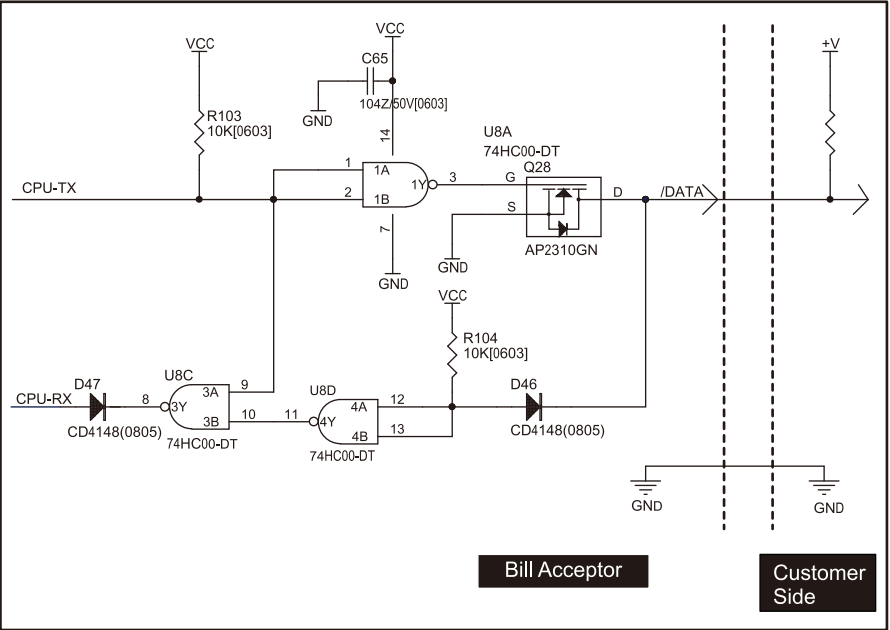
5-1-1. I/O Circuit
RS232 Interface.

5-1-1 FIG.01



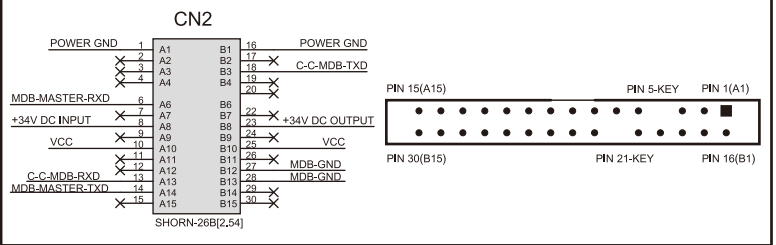
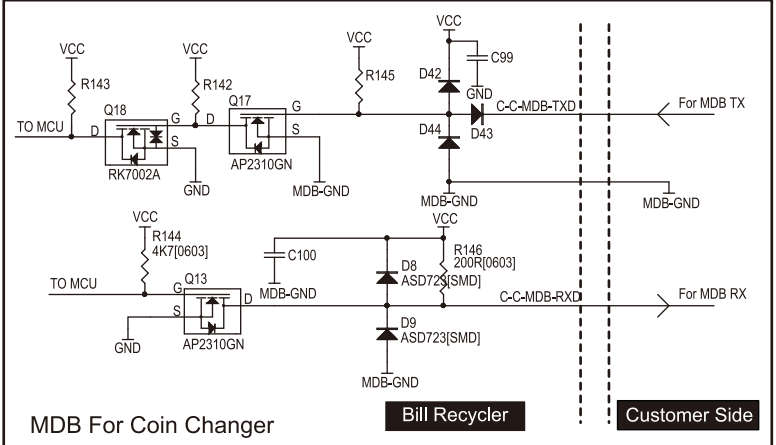
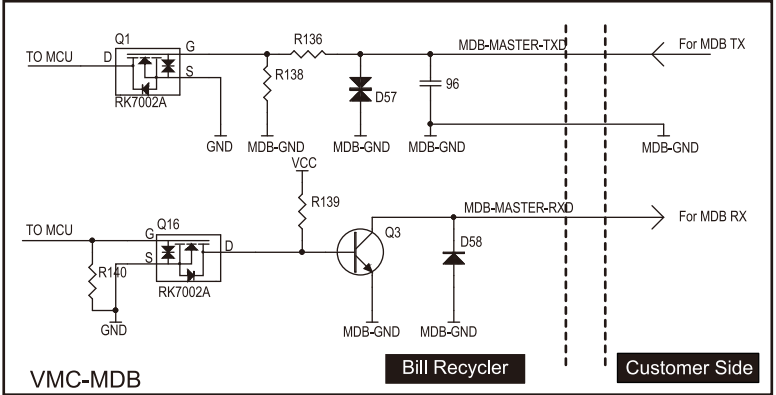
ccTalk Interface.

5-1-1 FIG.02



MDB Interface.

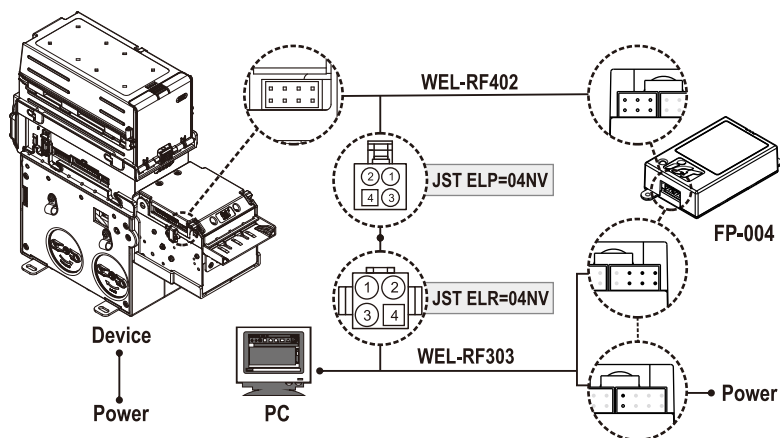
5-1-1 FIG.03



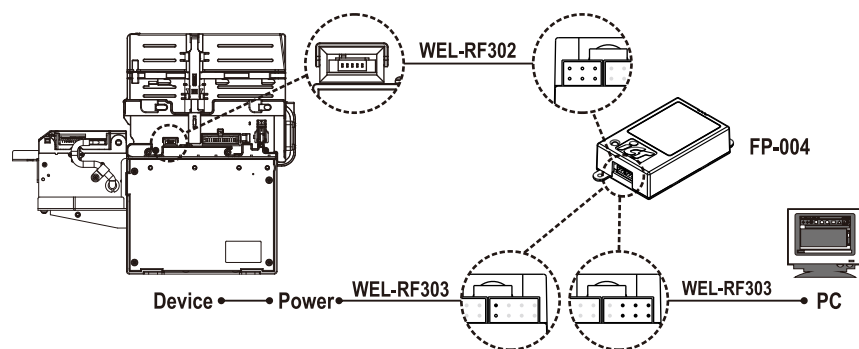
5-2. Software Download and Upgrade

To download and upgrade the software to NE77-BR, 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.

< NE77-BR Validator > 5-2 FIG.01



< NE77-BR Recycler > 5-2 FIG.02



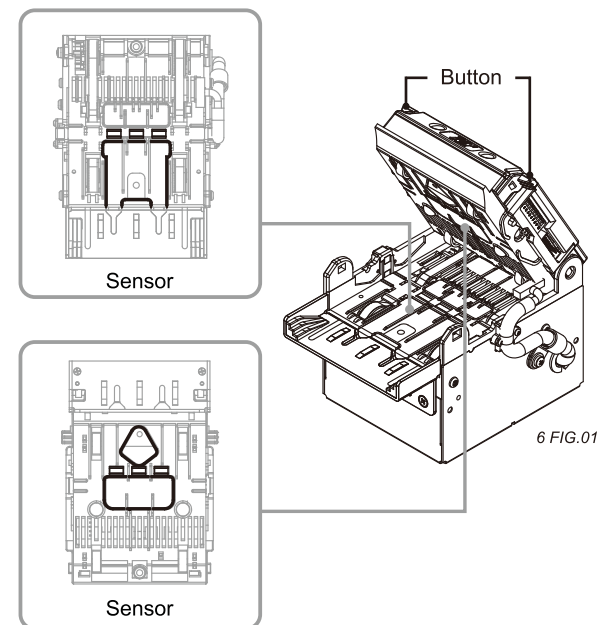
6. Maintenance

To make sure the bill acceptor always works smoothly, please clean the internal parts regularly.

< NE77-BR Validator >

To clean the internal parts:

1. Turn Bill Acceptor off.
2. Press the buttons on the side of NE77-BR cover and lift the unit.
3. Use a soft, dry cloth, or towel to clean the bill path and sensors.

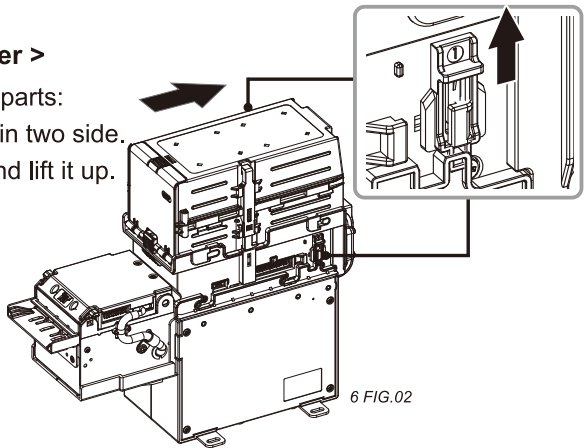


Maintenance Notice (Any improper maintenance will result invalid warranty.)	
Recommended	Mild, non-abrasive, soap water.
DO NOT USE	Organic solvent , Alcohol, Volatile liquid.

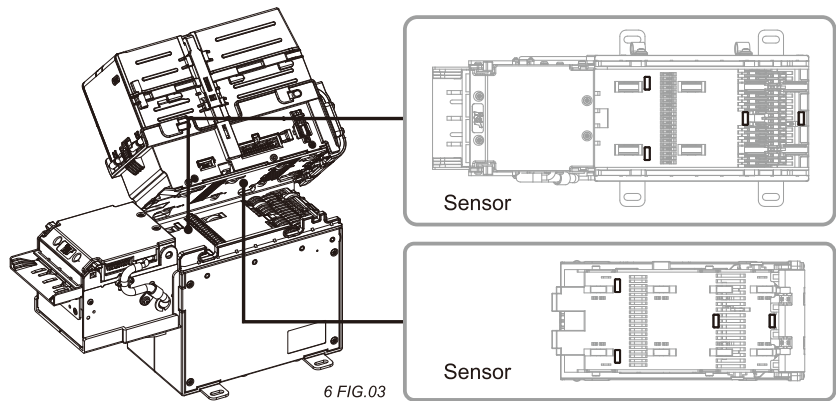
< NE77-BR Recycler >

To clean the internal parts:

- 1. Push up the lever in two side.
- 2. Move backward and lift it up.



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





Maintenance Notice
(Any improper maintenance will result invalid warranty.)

Recommended	Mild, non-abrasive, soap water.
DO NOT USE	Organic solvent , Alcohol, Volatile liquid.

7. Troubleshooting

7-1. Bezel LED Errors

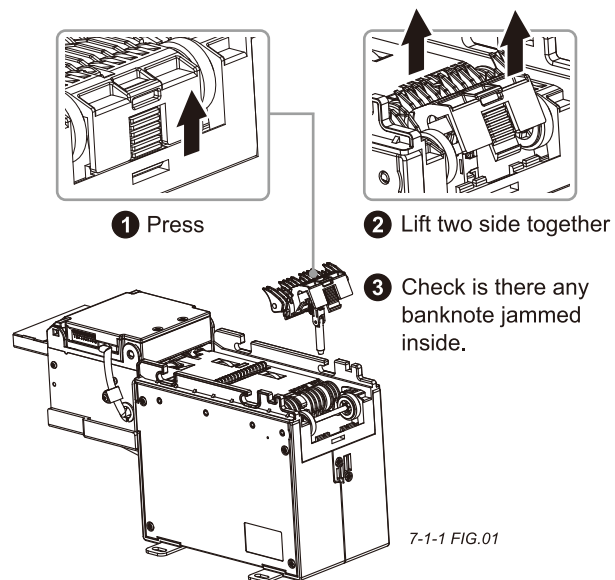
7-1 TABLE 01

LED Flashes		Status	Corrective Actions
Red	Green		
1	1	Bill Jam	Remove the jammed bill. (Refer to page 13 &14)
2	1	BA Disable	Inspect for right DIP switch setting. Harness connections, and communication.
3	1	IR LED/Sensor Error	Inspect for foreign objects on sensors or bill path and clean.
3		Sensor Error	
3	4	Output Error	
4	1	Fish	1. A stringing attempt has detected. 2. Inspect for foreign objects on sensors or bill path and clean.
5	2	Stacker Open	Return bill box back to position.
		Recycle Error	Inspect for any banknote or object jammed in recycler and clean. (Refer to page 16).
		Stacker Error	Check the bill box. Sent the product to service point to maintain.
		Stacker Full	Empty the bill box.
		Recycle Comm_Error	Check all the cable on NE77-BR Validator, recycler connected well.
7	1	Motor Error	Inspect for foreign objects on sensors or bill path and clean.



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

7-1-1. Removing recycler jammed banknote.



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7-1-2. Rotate the wheel to remove the jammed banknote.

