



Thank you for choosing TOP VME .



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1. Introduction

1-1. Overview

The TB Series is the latest generation of banknote reader designed exclusively by TOPVME with the highest safety and acceptance rate have over 96%. The new identification method and identification technology been improved to provide users with the most complete functions.

1-2. Features

- Horizontal bill insertion with downward stacking into the cash box
- Accepts bills in all four orientations
- High banknote acceptance rate (over 96%)
- The opening of the stacker can be adjusted based on requirements.
- Enhanced security mechanism design
- Supports multiple communication protocols
- Lightweight, user-friendly design
- Easy maintenance

2. Specifications

2-1. General specifications

Acceptance Rate	96% or greater ※ Note: Expect for dirty, damp, damaged, or over-used banknotes
Transaction Time	Approx. 1.5 ~ 2 seconds
Interface	Pulse/RS232 or Pulse/ccTalk or Pulse/003 or Pulse/003
Installation Site	Indoor
Bill Insertion	Four-way bill acceptance

2-2. Electrical specifications

Power Source	12V DC ± 10%
Power Consumption	Standby : 0.1~0.16A , 1.2W~1.9W Operation Current : 0.5A ,6W Maximum : 1.2A , 14.4W
Operation Environment	Operation Temperature : 0° C~60° C Storage Temperature : -10° C~80° C Humidity : 20%~70%RH (no condensation)

2-3. Mechanical specifications

Weight	310 g ± 10g
Dimension	Please refer to Chapter 4.Dimension
Bill Accepted Width	TB74 : 62 mm ~ 74 mm TB74-U : 62 mm ~ 74 mm TB74-B : 62mm ~ 74mm TB74-P : 62 mm ~ 74mm TB77 : 62 mm ~ 77 mm TB77-U : 62 mm ~ 77 mm

3. Optional List

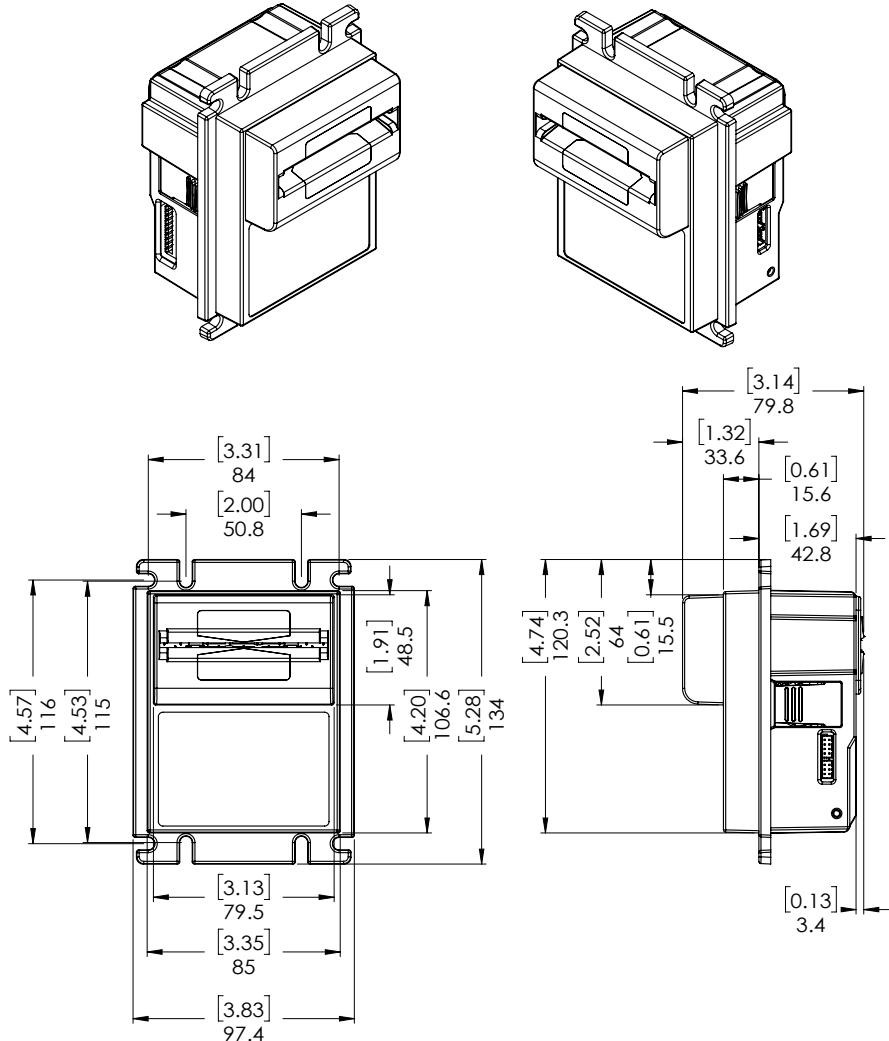
Main	Bill Acceptor x 1
Accessories	Metal frame x 1 · Screw set x1(Purchase) Bezel sticker x1 Installation guide x1 Harness (Please refer to 5-1 Harness Application) DIP Switch setting guide



4. Dimension

Unit : mm [inch]

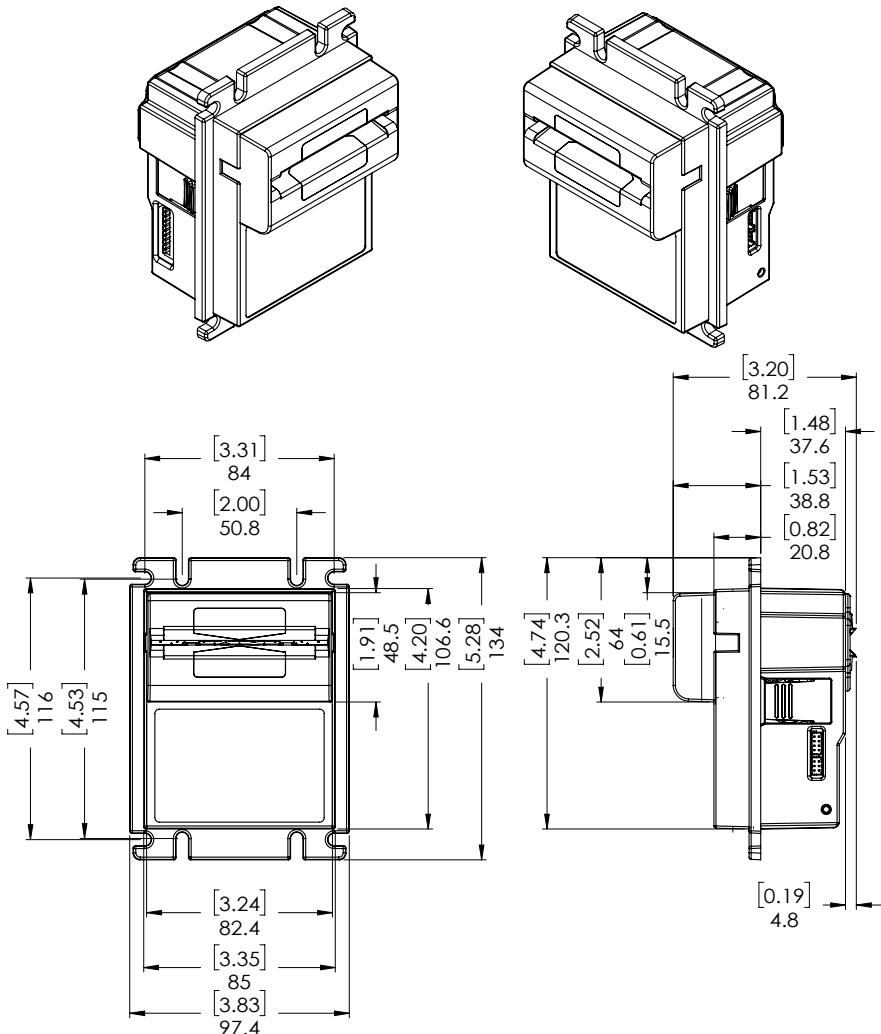
TB74





Unit : mm [inch]

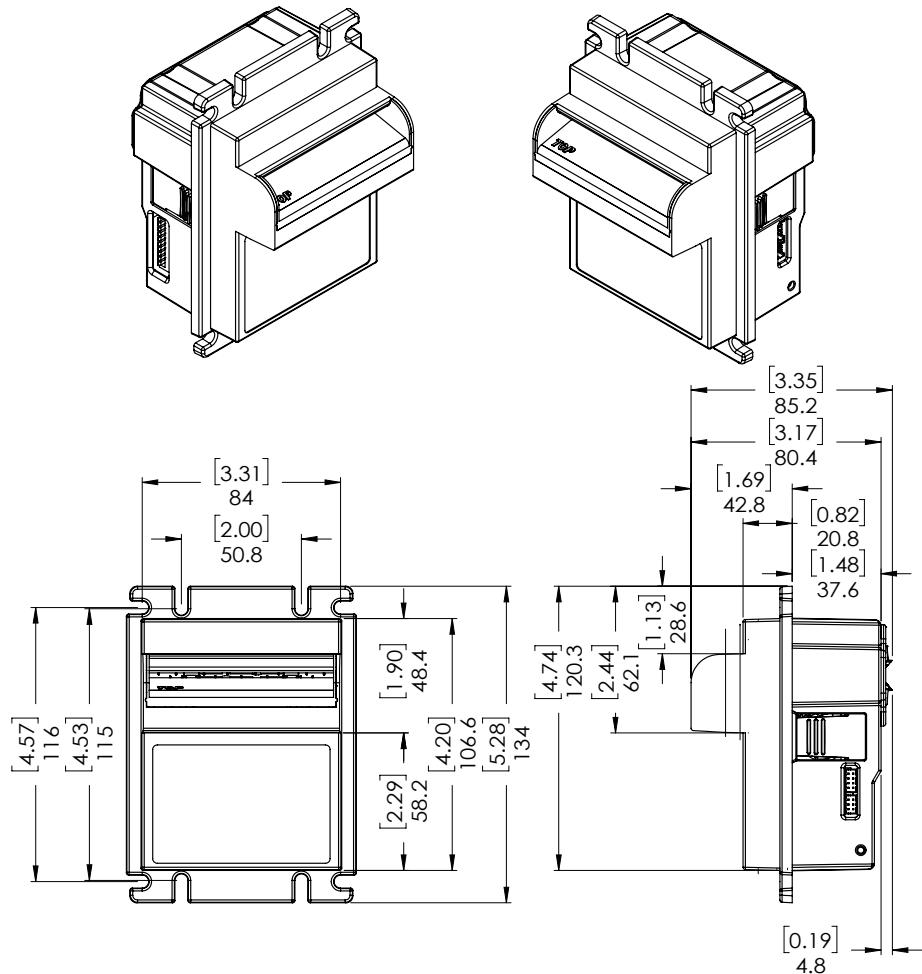
TB77





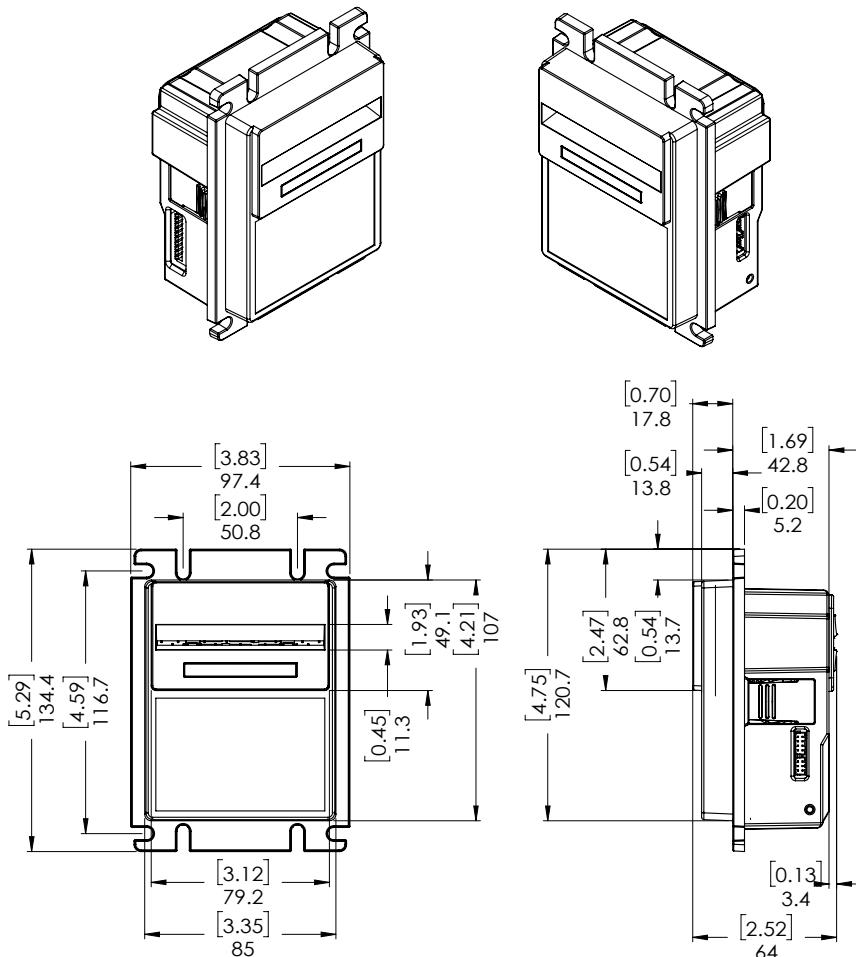
Unit : mm [inch]

TB74-U / TB77-U



Unit : mm [inch]

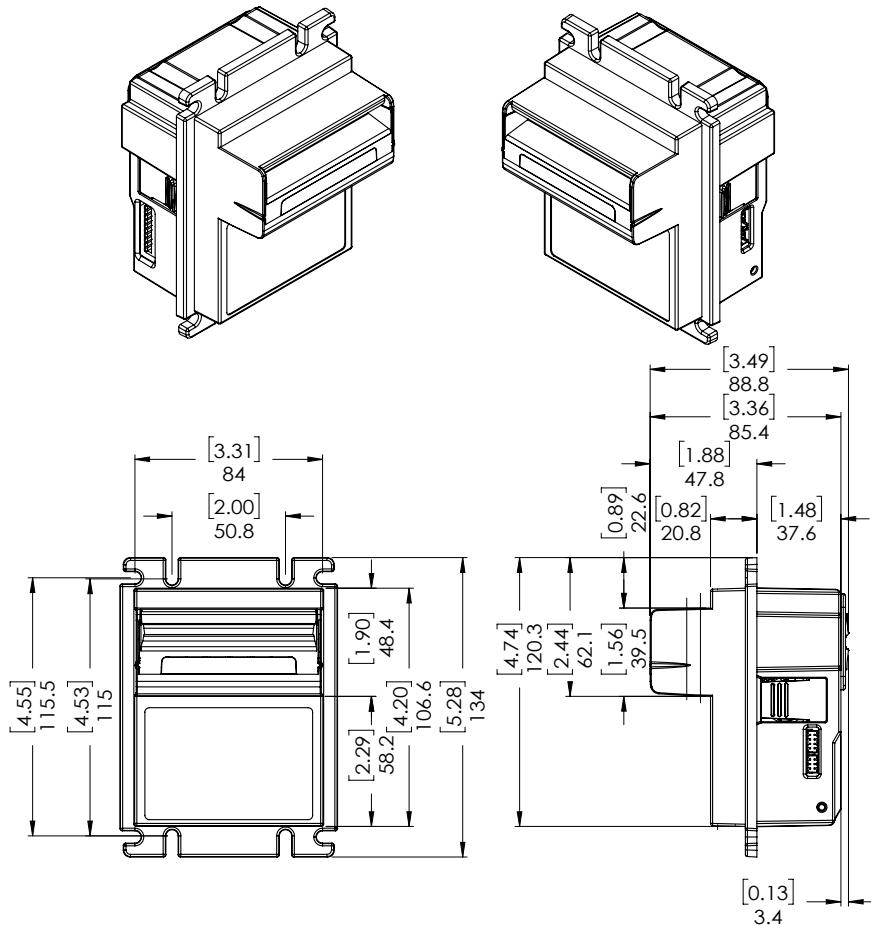
TB74-B





單位 : mm [inch]

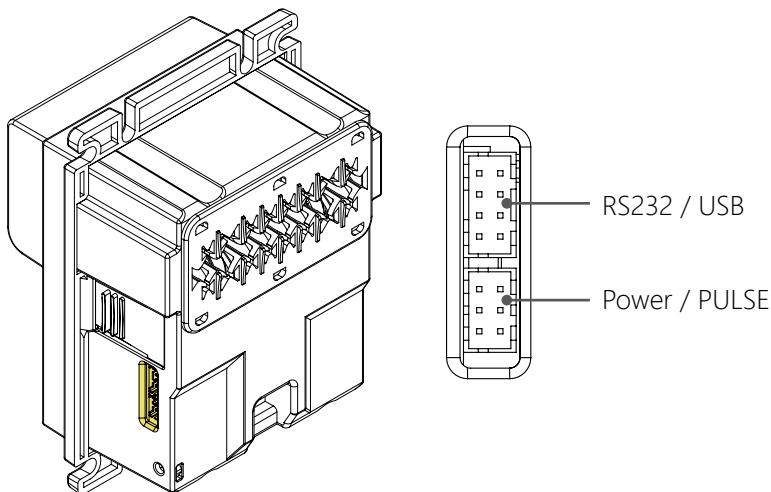
TB74-P



5. Installation

5-1. Harness Application

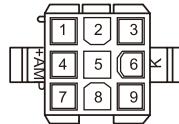
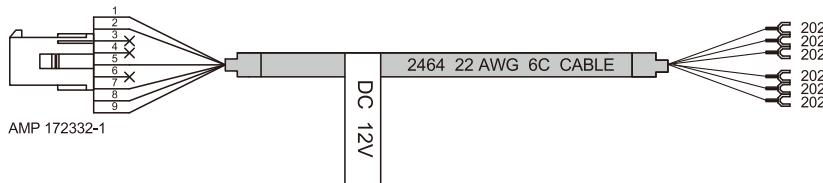
Interface	Voltage	Usage	Harness	Page
PULSE	12V DC	Extension Wire	CU-R961-1	9
	12V DC	Power & Data Comm.	WEL-R7U02	10
RS232	12V DC	Extension Wire	CU-R961-1	9
	12V DC	Power	WEL-R7U02	10
	12V DC	Data Comm.	WEL-R7U06 (Purchase)	11
USB	12V DC	Extension Wire	CU-R961-1	9
	12V DC	Power & Data Comm.	WEL-R7U02	10
	-	Data Comm.	2WIR-CP2102N--00 (Purchase)	12





HARNESS FORMAT

Pluse Extension Wire
CU-R961-1

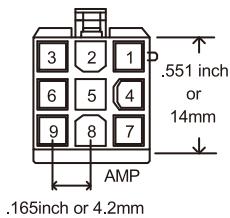
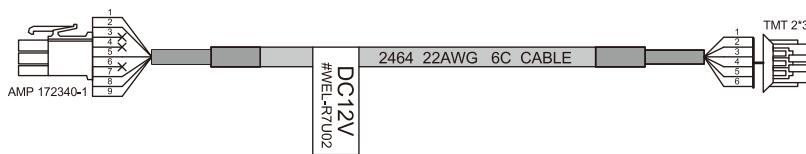


AMP 172332-1
BACK VIEW

PIN#	COLOR	PIN DEFINE
PIN1	YELLOW	INHIBIT+
PIN2	GREEN	INHIBIT-
PIN5	RED	+12V DC
PIN7	BLUE	METER+
PIN8	PURPLE	METER-
PIN9	ORANGE	GND

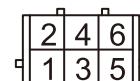
HARNESS FORMAT

12V Power & Pulse Data Communication Cable WEL-R7U02



AMP 172340-1 BACK VIEW

PIN NO	COLOR	PIN DEFINE
PIN1	YELLOW	INHIBIT+
PIN2	GREEN	INHIBIT-
PIN5	RED	+12V DC
PIN7	BLUE	METER+
PIN8	PURPLE	METER-
PIN9	ORANGE	GND



TMT 2*3 BACK VIEW

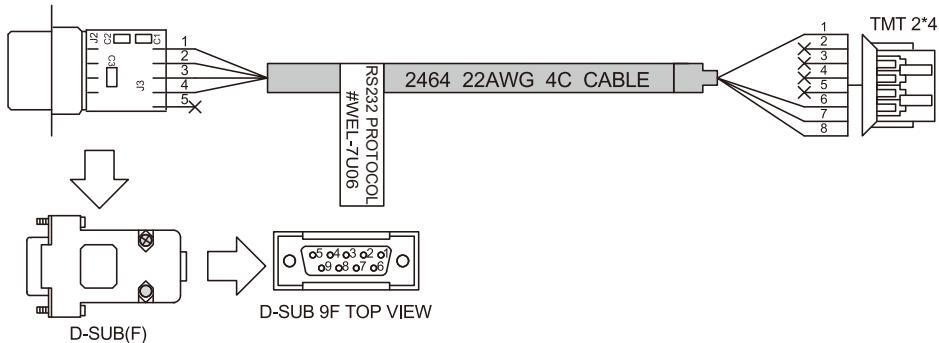
PIN NO	COLOR	PIN DEFINE
PIN1	RED	+12V DC
PIN2	ORANGE	GND
PIN3	YELLOW	INHIBIT+
PIN4	GREEN	INHIBIT-
PIN5	BLUE	METER+
PIN6	PURPLE	METER-

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HARNESS FORMAT

RS232 Data Communication
WEL-R7U06



TMT 2*4 BACK VIEW

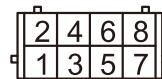
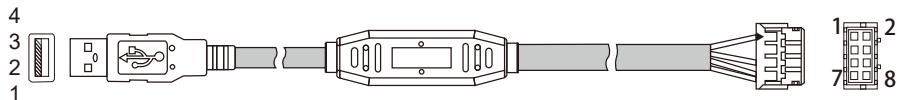
PIN #	PIN DEFINE
PIN2	TXD
PIN3	RXD
PIN5	GND

PIN #	COLOR	PIN DEFINE
PIN1	BLUE	GND
PIN6	WHITE	VCC
PIN7	BLACK	RXD
PIN8	PURPLE	TXD

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HARNESS FORMAT

USB Data Communication
2WIR-CP2102N--00



TMT 2*4 BACK VIEW

PIN#	PIN DEFINE
PIN1	USB 5V
PIN2	USB DM
PIN3	USB DP
PIN4	GND

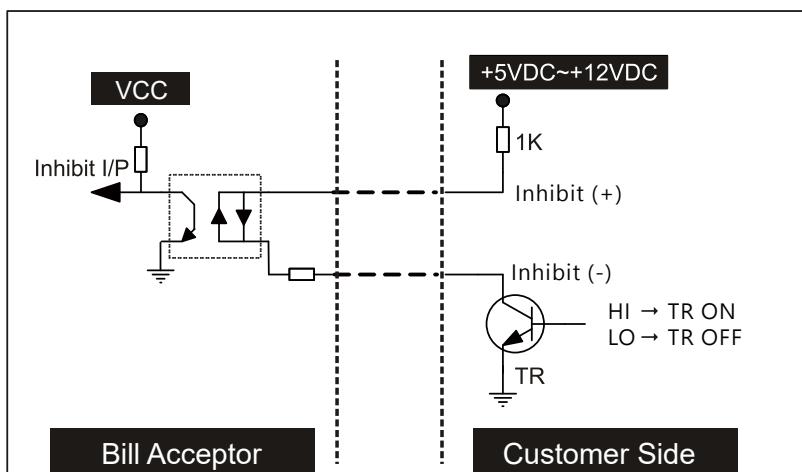
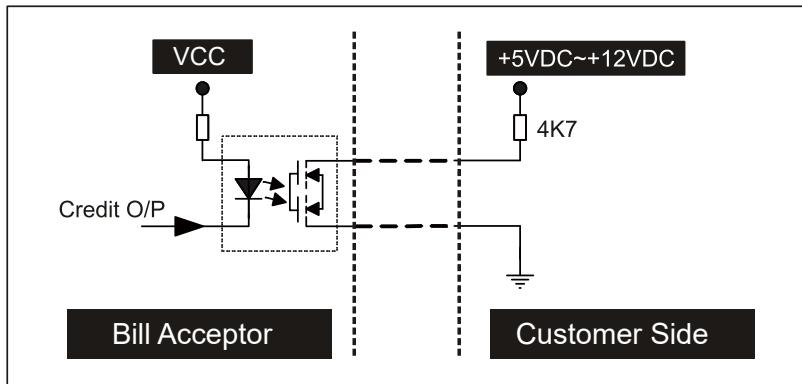
PIN#	COLOR	PIN DEFINE
PIN1	BLUE	GND
PIN6	WHITE	NC
PIN7	BLACK	RXD
PIN8	PURPLE	TXD

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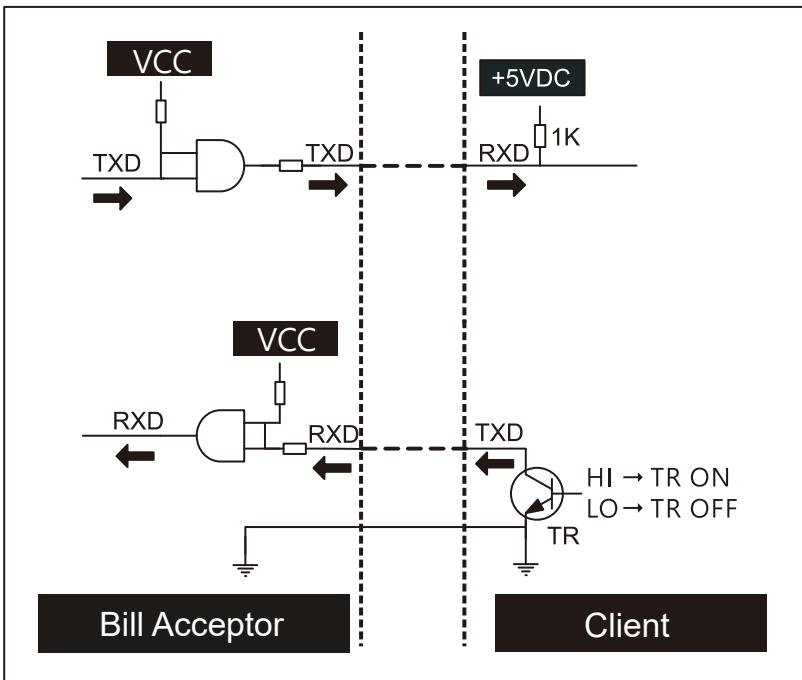
5-2. I/O Circuit

PULSE INTERFACE



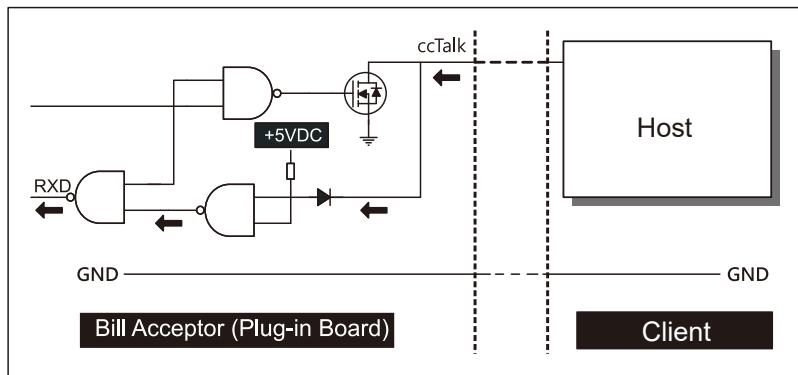
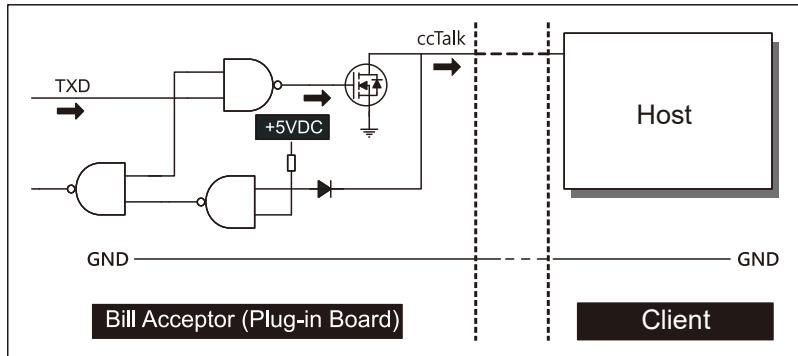
BA Status	DIP SW Setting		Control Signal
Inhibit	Inhibit Active	Low	Low
Enable	Inhibit Active	High	High
		Low	High
		High	Low

RS232 INTERFACE





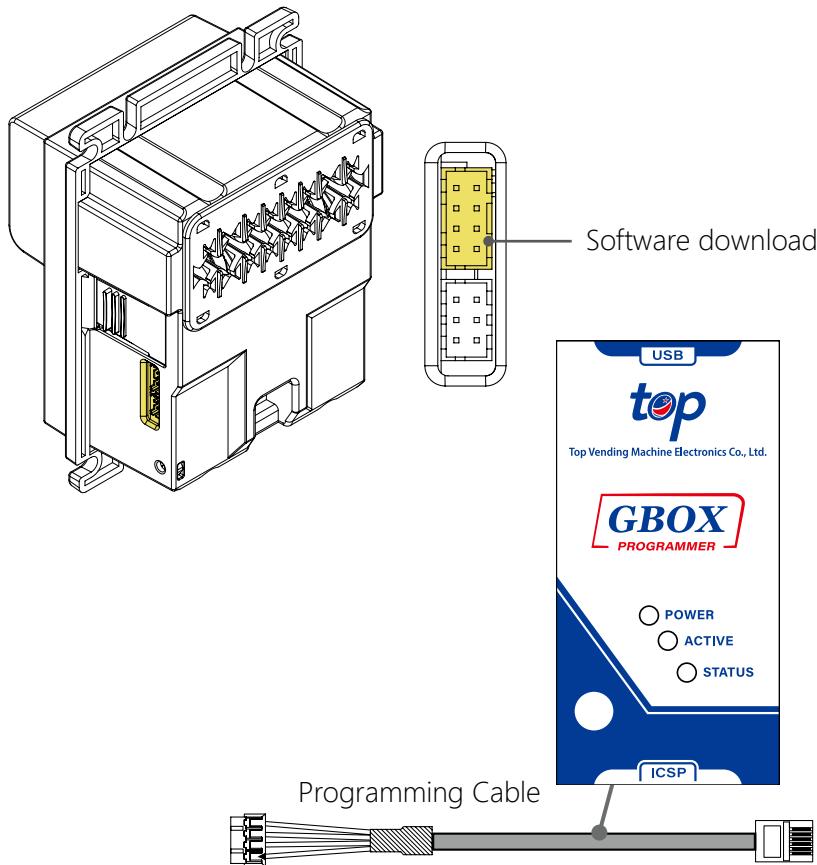
ccTalk INTERFACE





5-3. Software Update

To download the manual, please refer to the G-BOX instructions. You may obtain it through your local agent or by contacting us directly at service@topvme.com.tw.



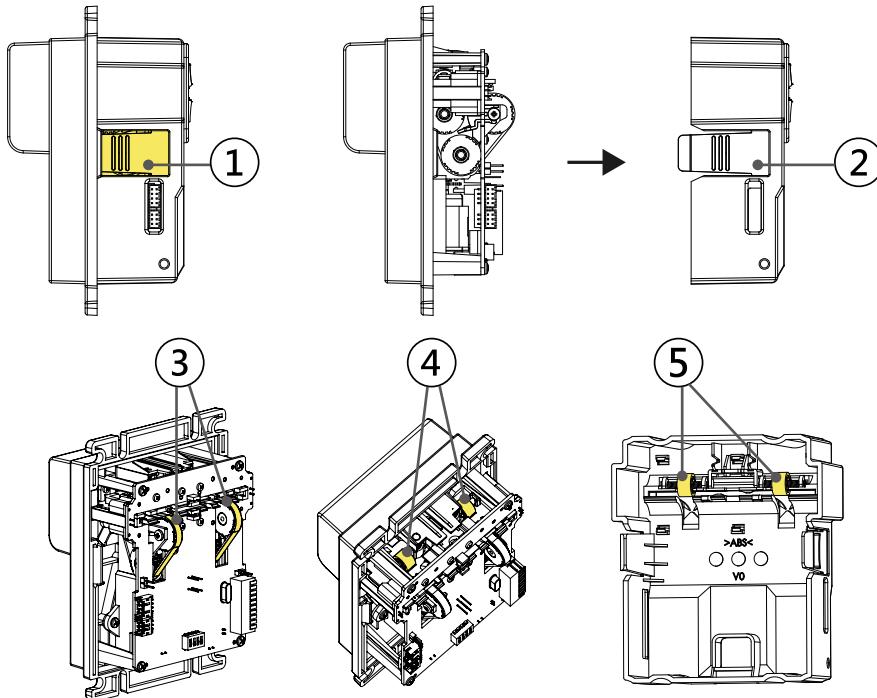


6. Maintenance

Foreign objects on the LED or sensor may cause bill jamming and decrease acceptance rate. To make sure the bill acceptor always works smoothly, please clean the internal parts regularly.(Recommended every 4-6 months)

Please follow the steps below to clean the inside of the machine:

1. Turn off the Bill Acceptor power.
2. Open the back cover assembly (1, 2) as indicated below.
3. Clean the belt (3) and the rollers (4, 5) with a soft dry cloth or towel.

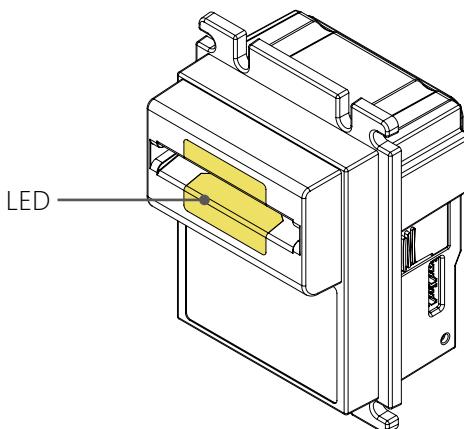


Maintenance Notice (Any improper maintenance will result invalid warranty.)

Recommended	Mild,non-abrasive,a small amount of soapy water.
DO NOT USE	Organic solvent , Alcohol, Volatile liquid.

7. Troubleshooting

LED Flashes		Status	Corrective Actions
Color	Frequency		
Red	1	Bill Jammed	Check the banknote path and clear any obstruction.
	2	Disable	Check if the DIP switch setting is correct
	3	LED error	View and remove foreign objects on the sensor and Bill path
	3+2	Out Sensor/LED error	View and remove foreign objects from the anti-theft hook
	3+4	Fishing LED/Sensor error	View and remove foreign objects on the sensor and Bill path
	4	A stringing attempt has detected	View and remove foreign objects on the sensor and Bill path
	5	Program is inconsistent with machine specifications	Contact dealer
	7	Motor error	Contact dealer
Yellow	1	Identify UV Led error	Clear channel dirty
Blue	1	Input Led or sensor Interfered	Remove light interference
Purple	1	Fishing Led or sensor Interfered	Remove light interference



Recommend performing maintenance and cleaning together. If the issue persists, please contact TOP or your distributor for further assistance.



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