



Bill Acceptor
Installation Guide

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◆ Appendix_ccTalk Information

1. Introduction

1-1. Overview

The L Series bill acceptor combines improved bill-sensing technology with lightweight and durable plastic construction. It also features fast software updating, auto self-adjusting sensor system and easy maintenance to increase acceptance rates and reduce jams.

1-2. Features

- Fixed-width/ Multi-width bill acceptable.
- Multi-countries' currencies acceptable.
- New generation design of verification system.
- Anti-string technologies.
- Ability of auto calibration.
- Lightweight and durable plastic construction.
- Speedy bill transaction.
- Selectable interfaces.
- Multi-colored illumination bezel design.
- Easy maintenance.
- Fast program update.

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

Installation

Indoor

Transaction Speed

Approx 1.5~3 Seconds to stack

Interface

L70(#)-P2/P5: Pulse, RS232, IGT (ID022), ID003, CCNET, MDB.

L77-P3/P6 : Pulse, GBA, RS232, ccTalk, Parallel, CCNET, MDB.

L83-P3/P6 : Pulse, GBA, RS232, ccTalk, Parallel, CCNET, MDB.

PL77 : Pulse, GBA, RS232, ccTalk, Parallel, CCNET, MDB.

L83#-P3/P6 : Pulse, GBA, RS232, CCNET, MDB.

L77#-P3/P6 : Pulse, GBA, RS232, CCNET, MDB.

*Note: For ccTalk information, please refer to Appendix.

Electrical

Power Source

L70#/ L77#/ L83#: 10~16V DC

Others: 10.8~13.2V DC

Power Consumption

Standby : 3.6 W

Operation : 14.4 W

Maximum : 24 W

Operation Environment

Operating Temperature: L70/ L77/ L83/ PL77: 0°C~55°C

L70#/ L77#/ L83# : 0°C~65°C

Storage Temperature : -20°C~70°C

Humidity: 30%~85%RH (no condensation)

*Note: “#” indicates product specification upgrade.

Mechanical**Bill Box Capacity**

L70(#)-P2: Approx. 200 bills
 L70(#)-P5: Approx. 500 bills
 L77(#)-P3: Approx. 300 bills
 L77(#)-P6: Approx. 600 bills
 L83(#)-P3: Approx. 300 bills
 L83(#)-P6: Approx. 600 bills
 PL77 : Reserved

Outline Dimension

L70(#)-P2/P5 : See Page.4
 L77(#)-P3/P6 : See Page.5
 L83(#)-P3/P6 : See Page.6
 PL77 : See Page.8

Weight

L70(#) : Approx. 520g
 L70(#)-P2 : Approx. 1250g
 L70(#)-P5 : Approx. 1400g
 L77(#) : Approx. 800g
 L77(#)-P3 : Approx. 1460g
 L77(#)-P6 : Approx. 1650g
 L83(#) : Approx. 800g
 L83(#)-P3 : Approx. 1460g
 L83(#)-P6 : Approx. 1650g
 PL77 : Approx. 800g

Bill Accepted Width

L70(#)-P2/P5 : (67mm)-59mm~67mm
 (71mm)-59mm~71mm
 L77(#)-P3/P6 : 61mm~77mm
 L83(#)-P3/P6 : 61mm~83mm
 PL77 : 61mm~77mm

3. Packing List**Main**

Bill Acceptor

Accessory

Harness: see 5-1
 Bezel Sticker
 Screw Pack
 L Series Installation Guide
 L Series DIP Switch Setting Guide

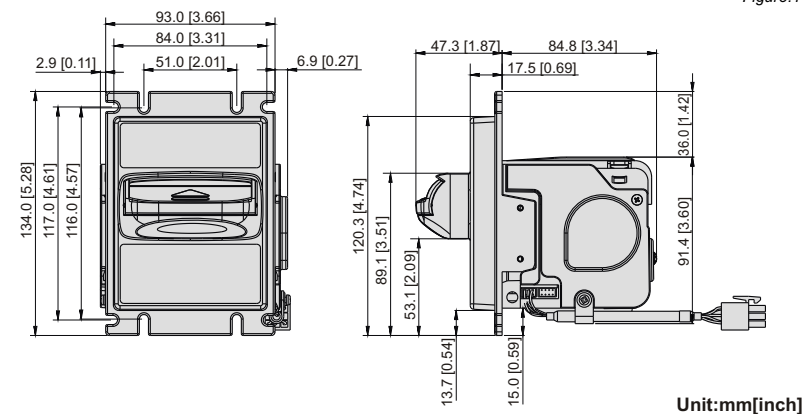
4. Dimension**L70(#)**

Figure.1

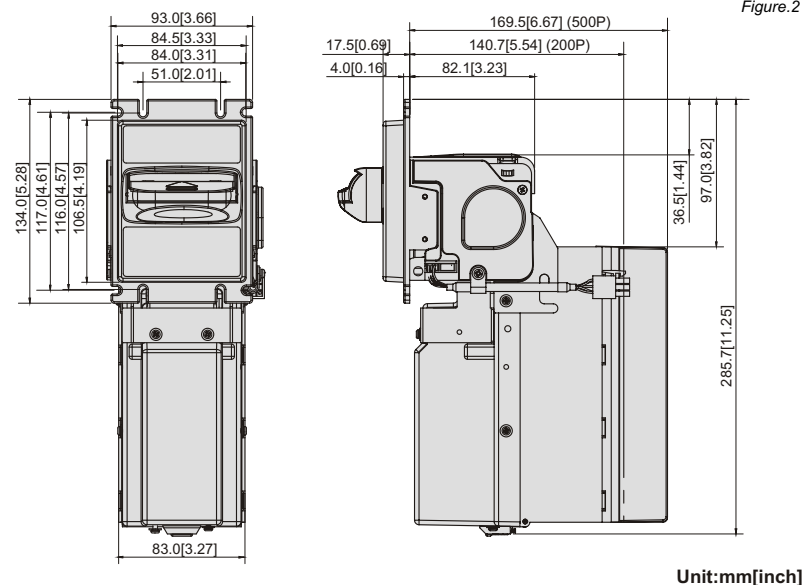
L70(#)-P2/P5

Figure.2

L77(#)

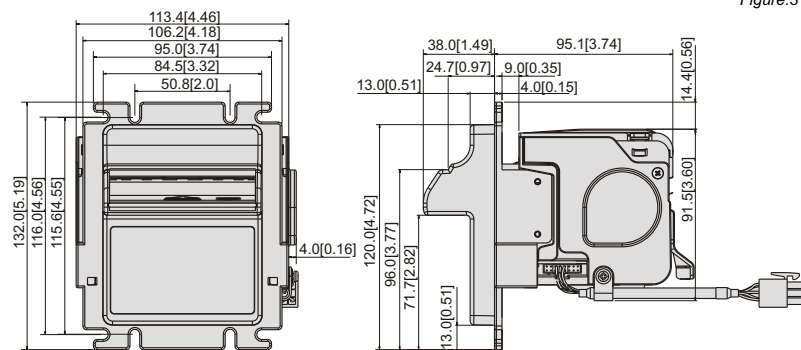


Figure.3

Unit:mm[inch]

L77(#)-P3/P6

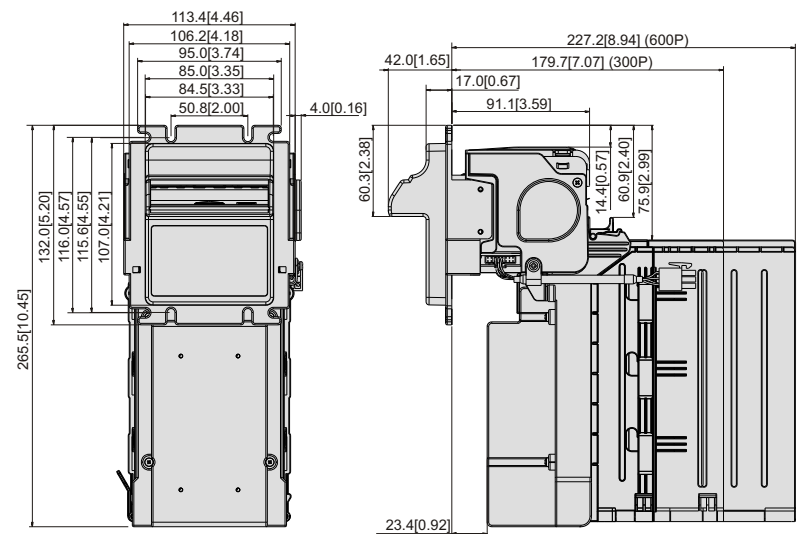


Figure.4

Unit:mm[inch]

L83(#) Down Stacker

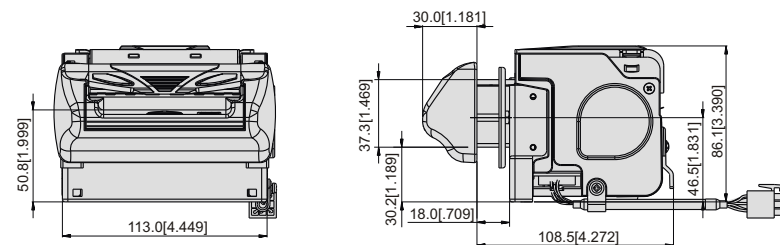


Figure.5

Unit:mm[inch]

L83(#)-P3/P6 Down Stacker

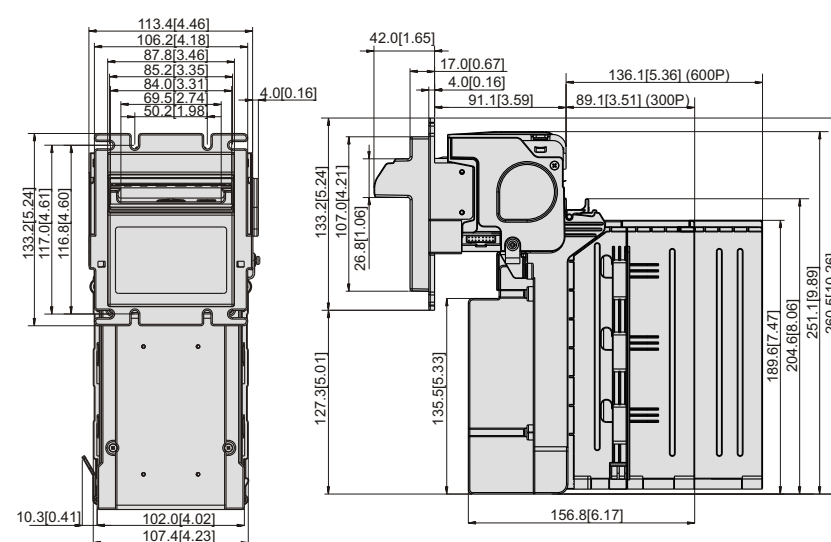
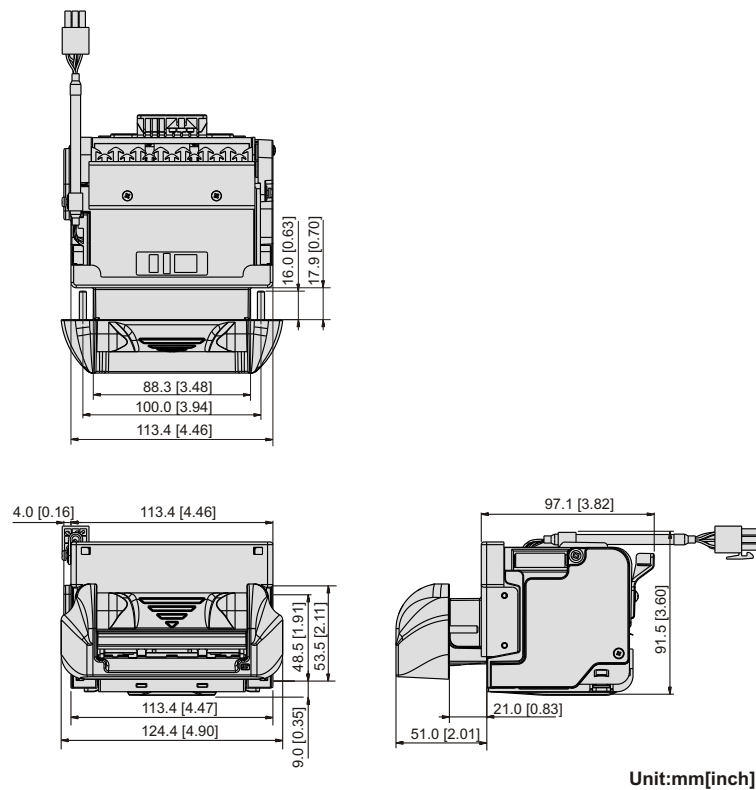


Figure.6

Unit:mm[inch]

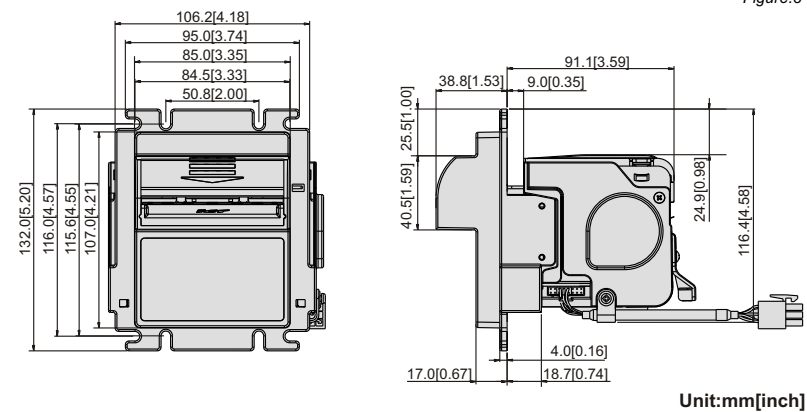
L83(#) Up Stacker

Figure.7



PL77

Figure.8



To install the bill acceptor on your VMC, please be aware of the dimension as below:

[L] : Longer than the maximum length of accepted bills.

[L1] : Bill box capacity depth.

* [L/2] has to be longer than 70mm to open upper base.

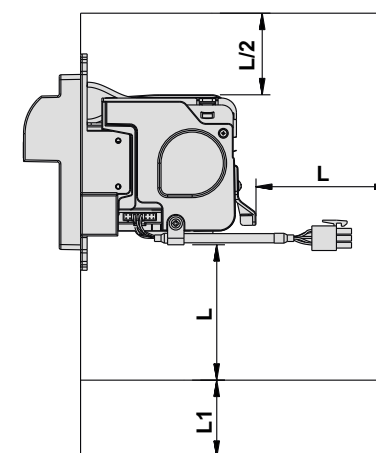


Figure.9

5. Installation

5-1. Harness Application

Bill Acceptor:

Table.1

Model	CPU Board	Interface	Used Voltage	Usage	Harnesses	Page
L70(#)-P2/P5	2PCBAA318FXX (3 in 1) ★6	Pulse	12V DC	Power & Data Comm. ★3	WEL-RL702	11
		ICT (RS232)	12V DC	Power & Data Comm.	WEL-RL703 ★1	12
		IGT	12V DC	Power & Data Comm.	WEL-RL701	13
				Extension Wire	WEL-R061	14
		ID003	12V DC	Power & Data Comm.	WEL-RL705	26
				Extension Wire	WEL-RID04	27
	2PCBAA318DXX (Non 3 in 1) ★6	Pulse	12V DC	Power & Data Comm.	WEL-R7U02	16
		ICT (RS232)	12V DC	Power	WEL-R7U02	16
				Data Comm. ★2	WEL-R7U06	15
		CCNET	12V DC	Power	WEL-R7U02	16
				Data Comm.	WEL-R7U06	15
		ID003	12V DC	Power	WEL-R7U02	16
				Data Comm.	WEL-R7U06	15
				Power & Data Comm. (BAIPlug-in Board) ★5	WEL-RBG01	22
		MDB	34V DC ★4	Power & Data Comm.(35cm) (Plug-in BoardIVMC)	WEL-RBG08	23
				Power & Data Comm.(200cm) (Plug-in BoardIVMC)	WEL-RBG07	24

★1. Internal use only. "Non 3 in 1" CPU Board is recommended for RS232 interface.

★2. WEL-R7U06: TTL Level to ±12VDC Level for PC.

★3. Data Comm.=Data Communication.

★4. MDB 34VDC: VMC Provides +34VDC to MDB Plug-in Board to convert into +12VDC, and provides +12VDC to L series bill acceptors.

★5. Plug-in Board: (New) 5RBG-AA313NA0-XX, (Old) 5RBG-AA266NA0-XX

★6. "XX" varies from board version to version.

Table.2

Model	CPU Board	Interface	Used Voltage	Usage	Harnesses	Page
L77-P3/P6 L83-P3/P6 PL77	2PCBAA324AXX ★6	Pulse	12V DC	Power & Data Comm. ★3	WEL-RL802	17
		ccTalk	12V DC	Power & Data Comm.	WEL-RL803	18
		GBA	12V DC	Power & Data Comm.	WEL-RL805	20
		ICT (RS232)	12V DC	Power	WEL-RL702	11
				Data Comm. ★2	WEL-R7U06	15
		CCNET	12V DC	Power	WEL-RL702	11
				Data Comm.	WEL-R7U06	15
		MDB	34V DC	Power & Data Comm. (BAIPlug-in Board)	WEL-RL812	25
				Power & Data Comm.(35cm) (Plug-in BoardIVMC)	WEL-RBG08	23
				Power & Data Comm.(200cm) (Plug-in BoardIVMC)	WEL-RBG07	24
L77#-P3/P6 L83#-P3/P6	2PCBAA324AXX ★6	Parallel	12V DC	Power & Data Comm.	WEL-RL804	19
		Parallel J	12V DC	Power & Data Comm.	WEL-RL806	21
		Pulse	12V DC	Power & Data Comm	WEL-RL802	17
		GBA	12V DC	Power & Data Comm	WEL-RL805	20
		ICT (RS232)	12V DC	Power	WEL-RL702	11
				Data Comm.	WEL-R7U06	15
		CCNET	12V DC	Power	WEL-RL702	11
				Data Comm.	WEL-R7U06	15
		MDB	34V DC	Power & Data Comm. (BAIPlug-in Board) ★5	WEL-RL812	25
				Power & Data Comm.(35cm) (Plug-in BoardIVMC)	WEL-RBG08	23
				Power & Data Comm.(200cm) (Plug-in BoardIVMC)	WEL-RBG07	24

★1. Internal use only. "Non 3 in 1" CPU Board is recommended for RS232 interface.

★2. WEL-R7U06: TTL Level to ±12VDC Level for PC.

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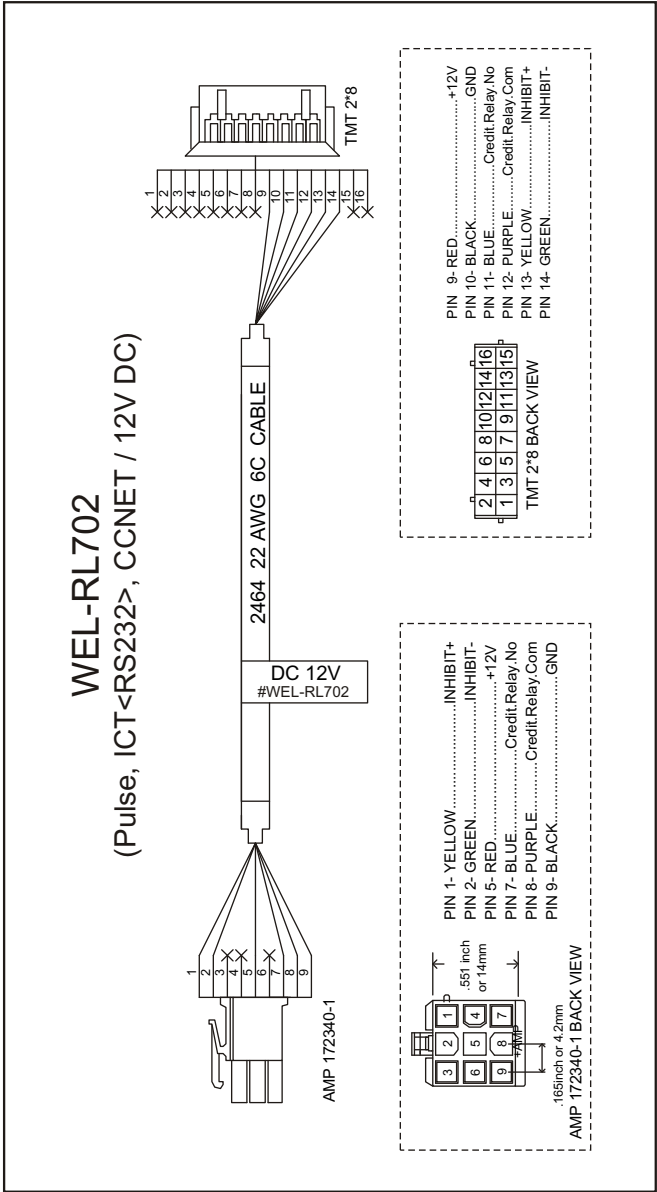


Figure.10

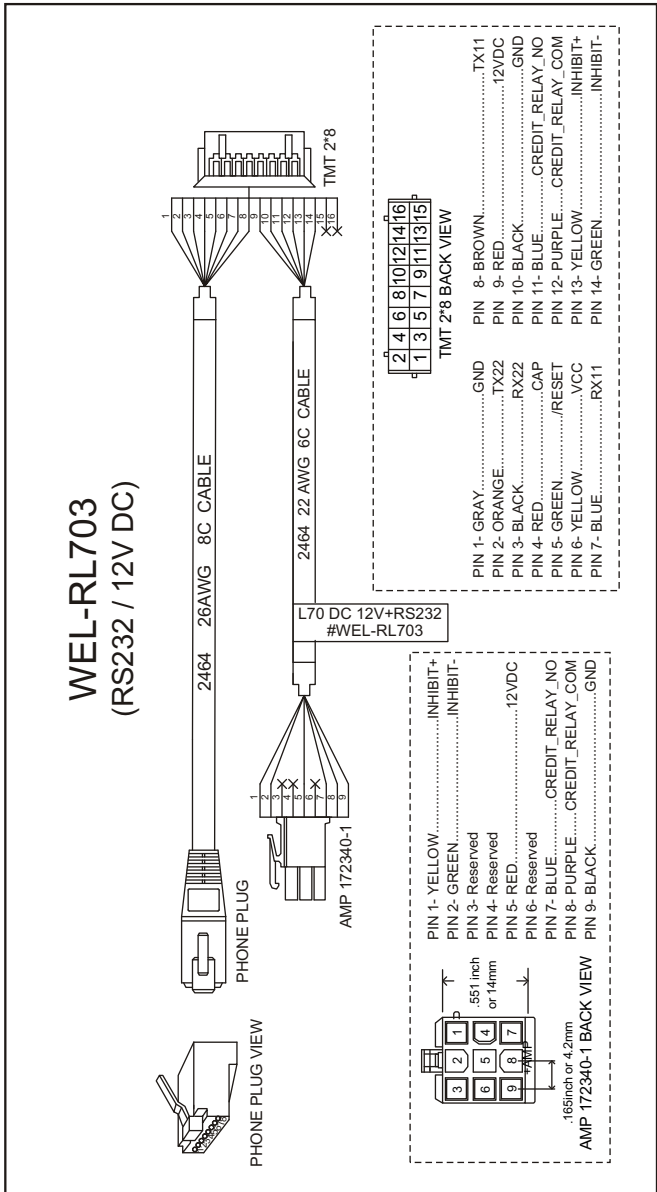


Figure.11

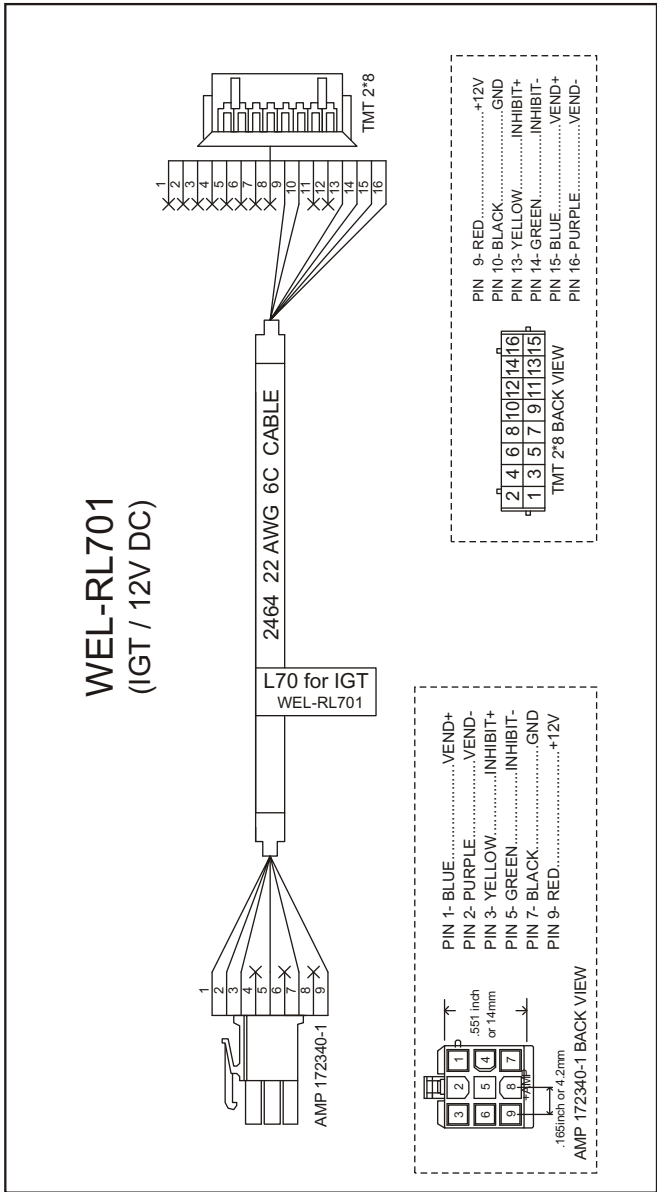


Figure.12

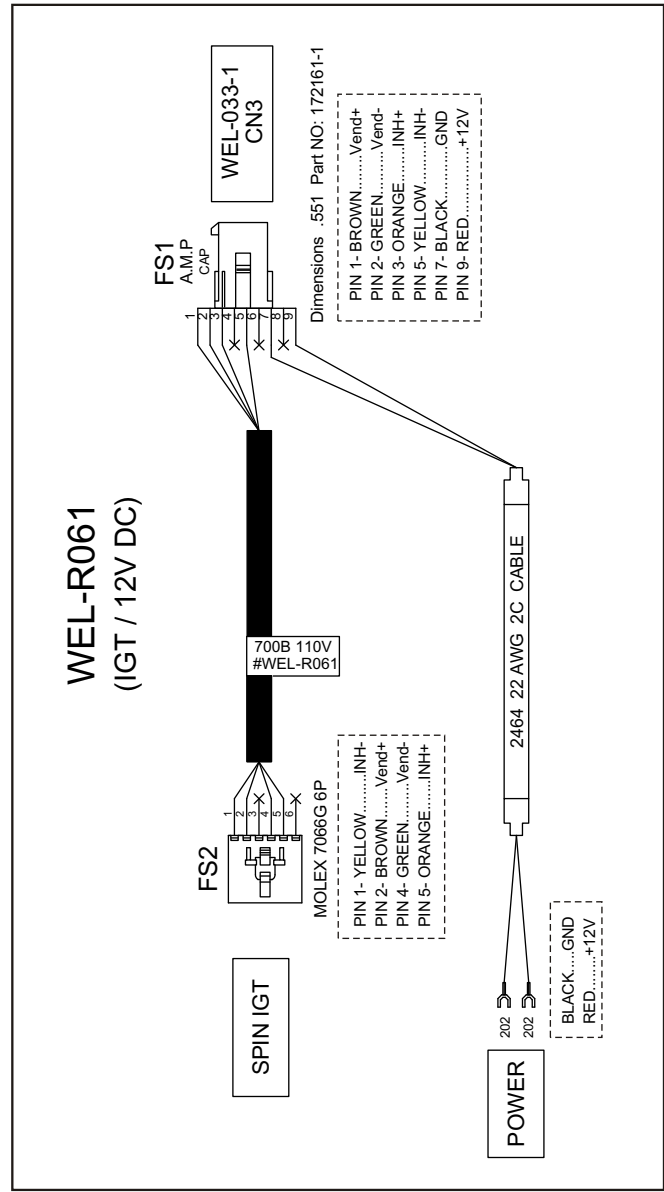


Figure.13

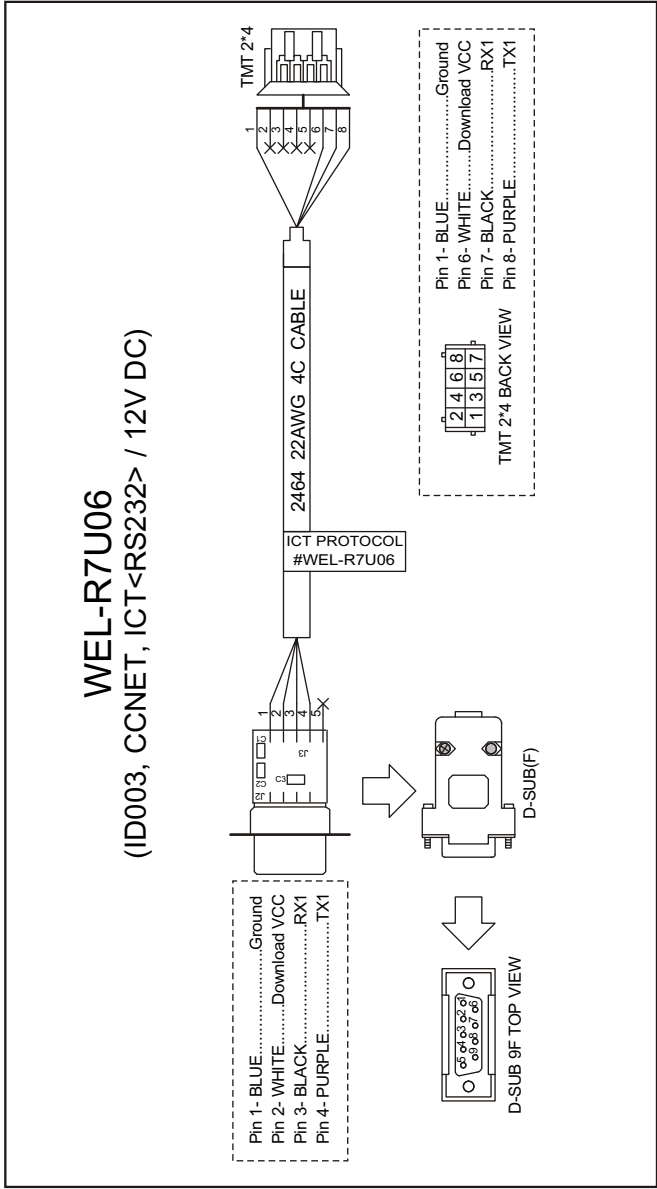


Figure.14

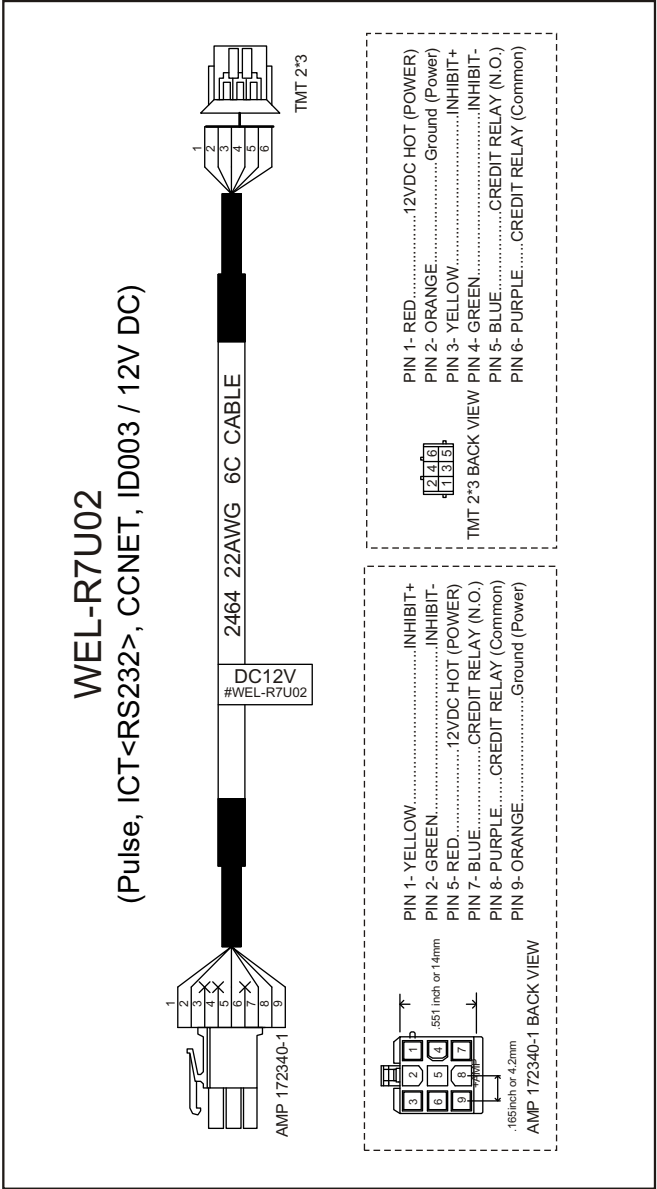


Figure.15

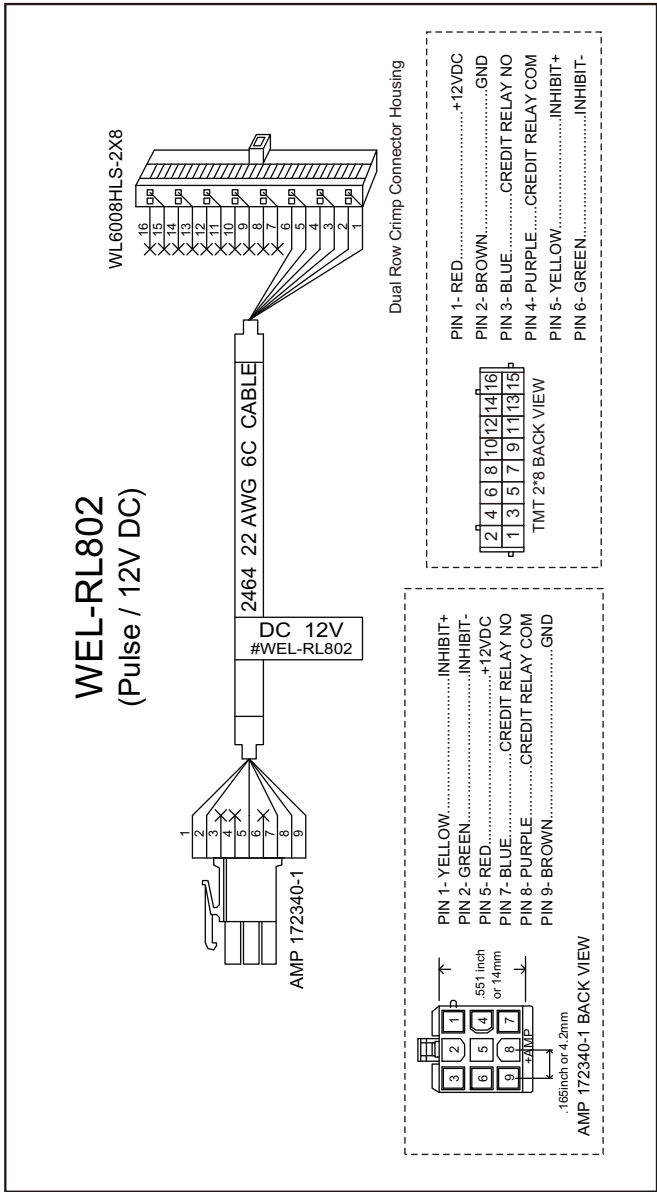


Figure.16

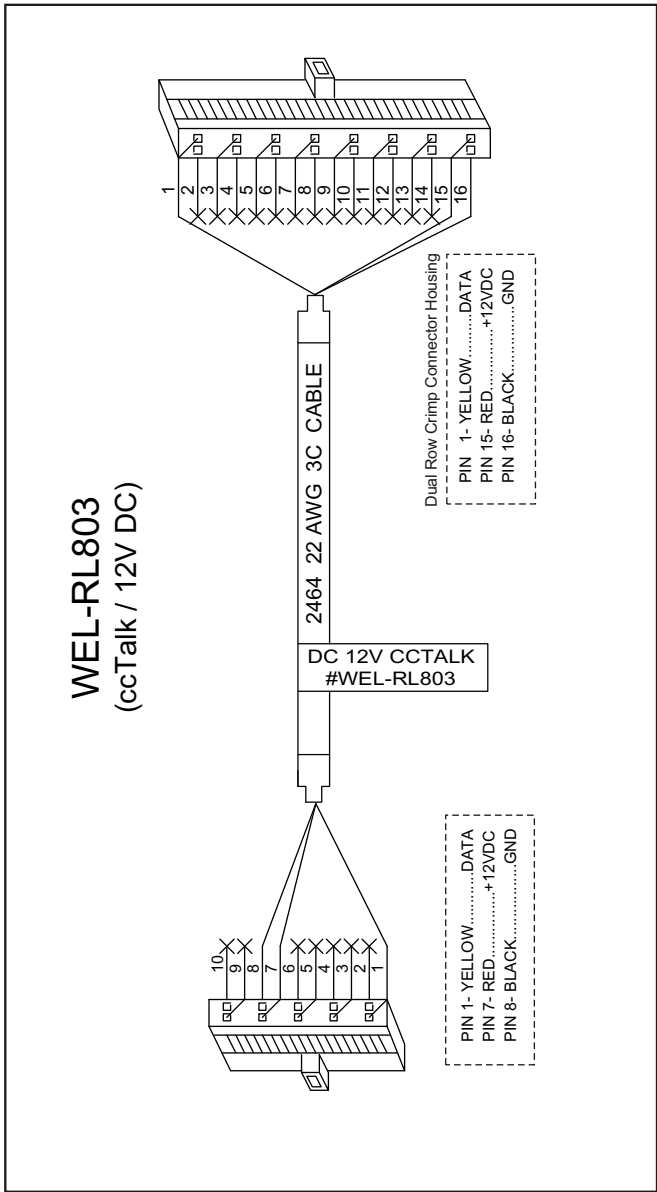


Figure.17

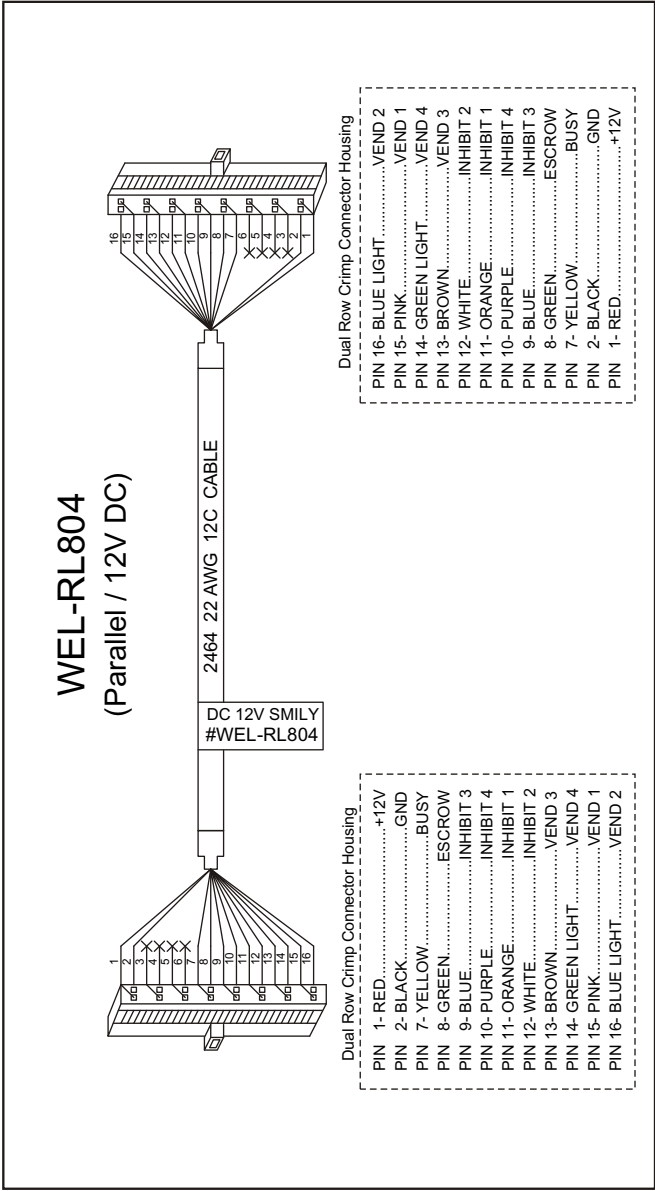


Figure.18

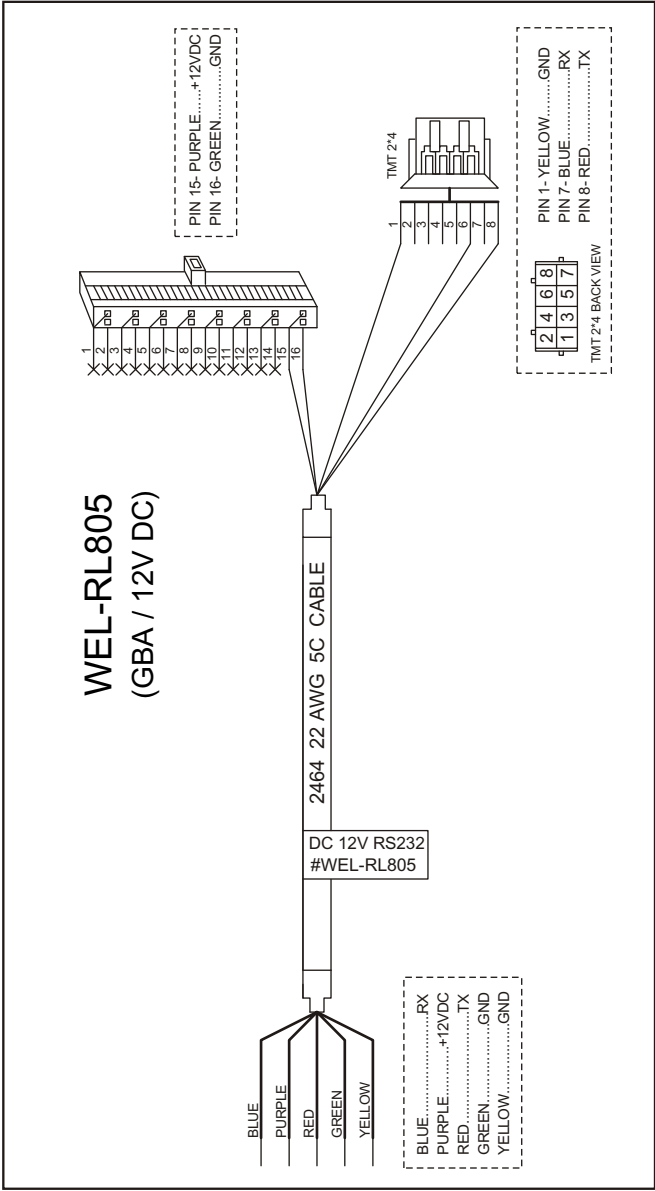


Figure.19

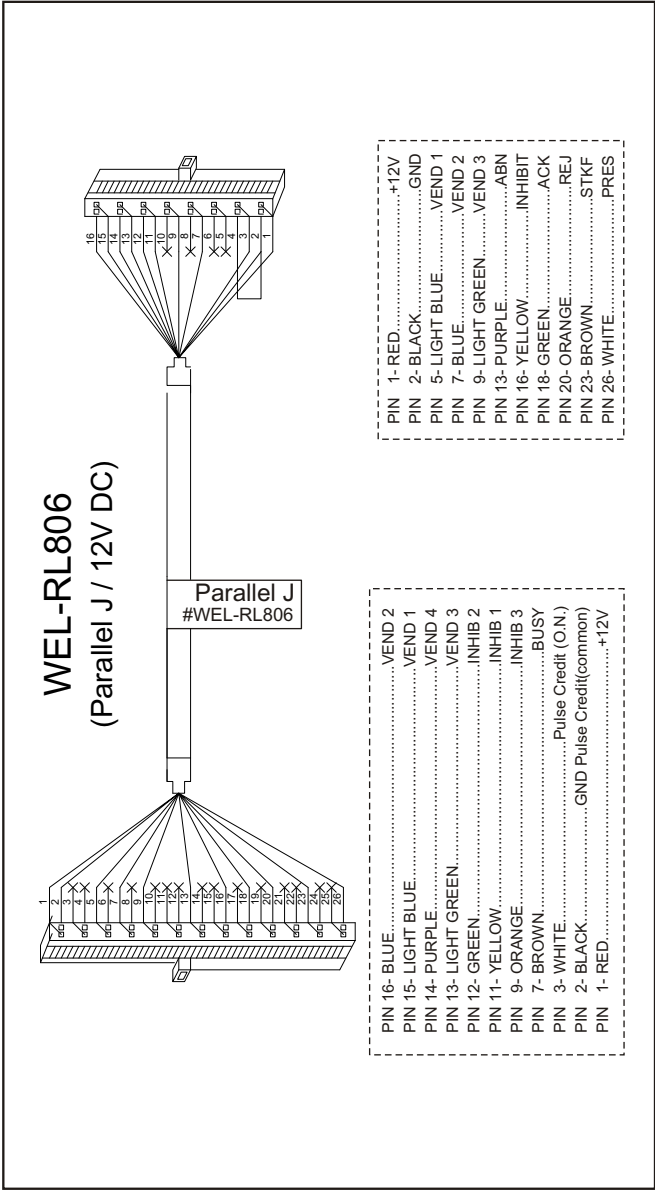


Figure.20

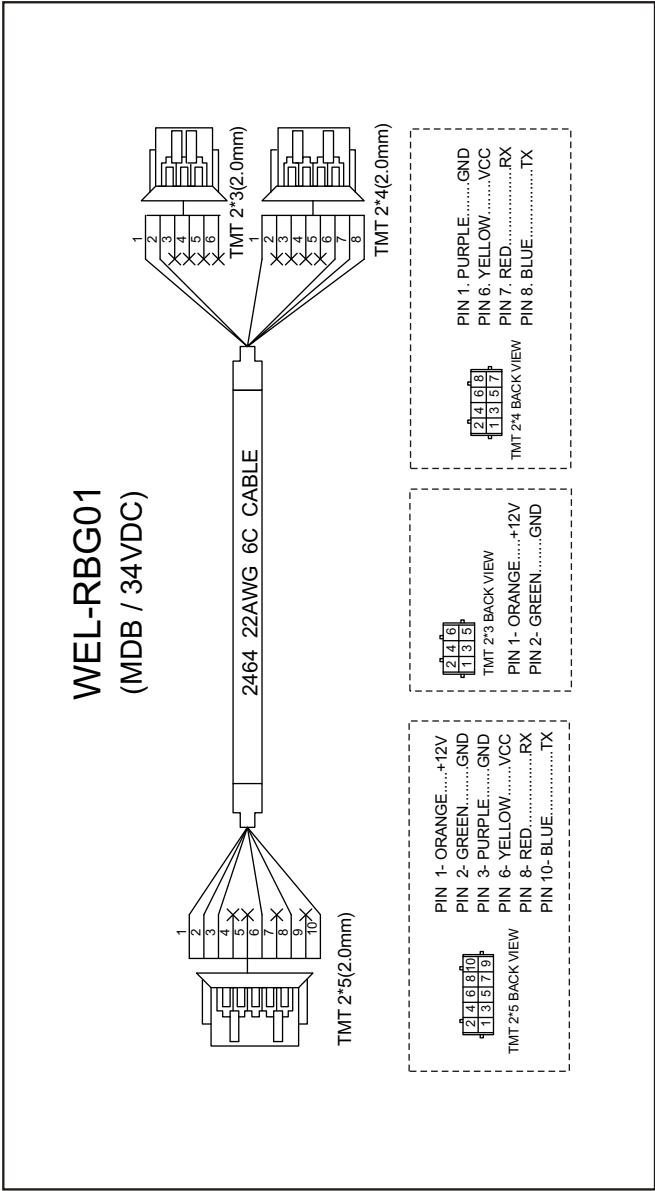


Figure.21

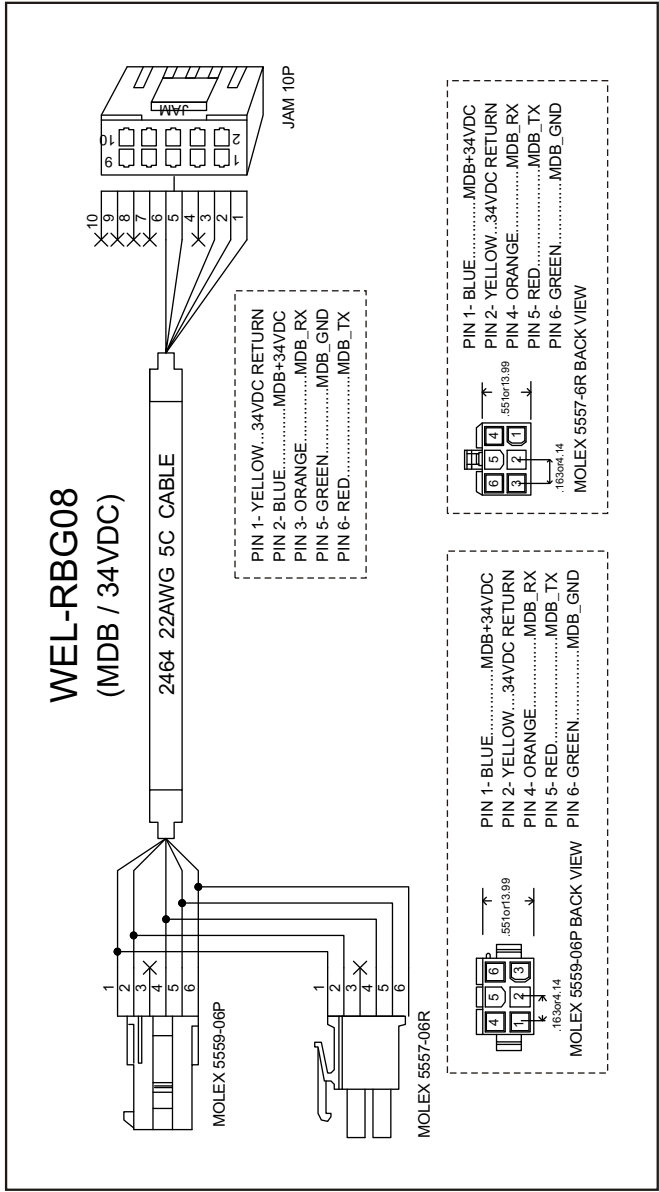


Figure.22

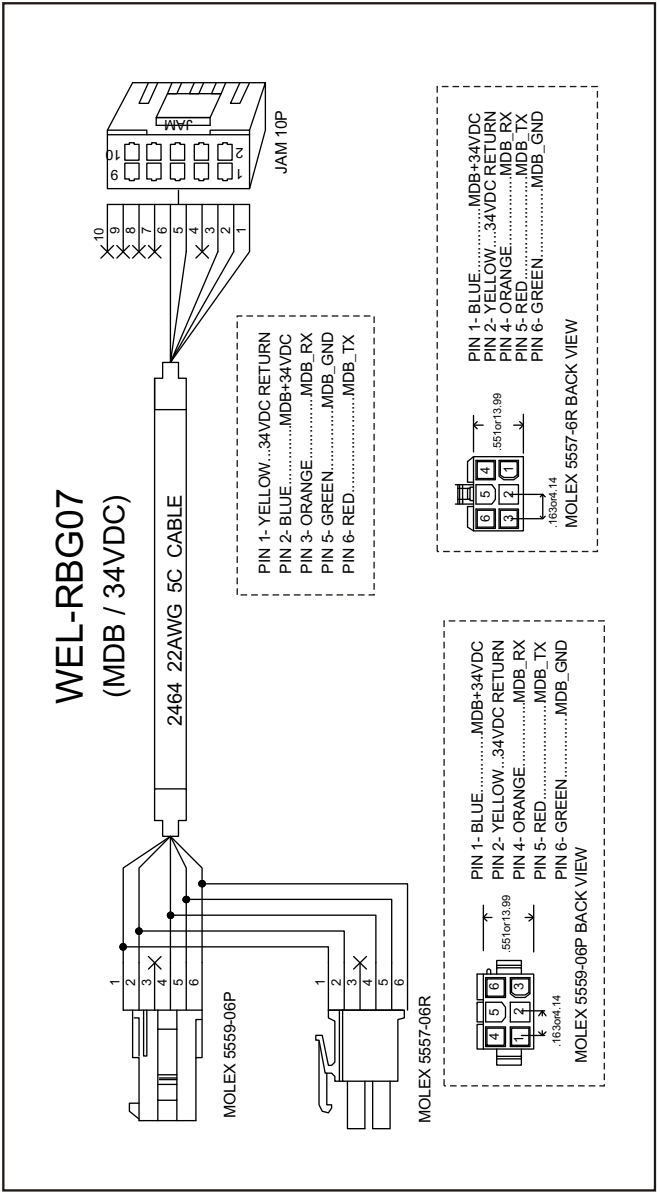


Figure.23

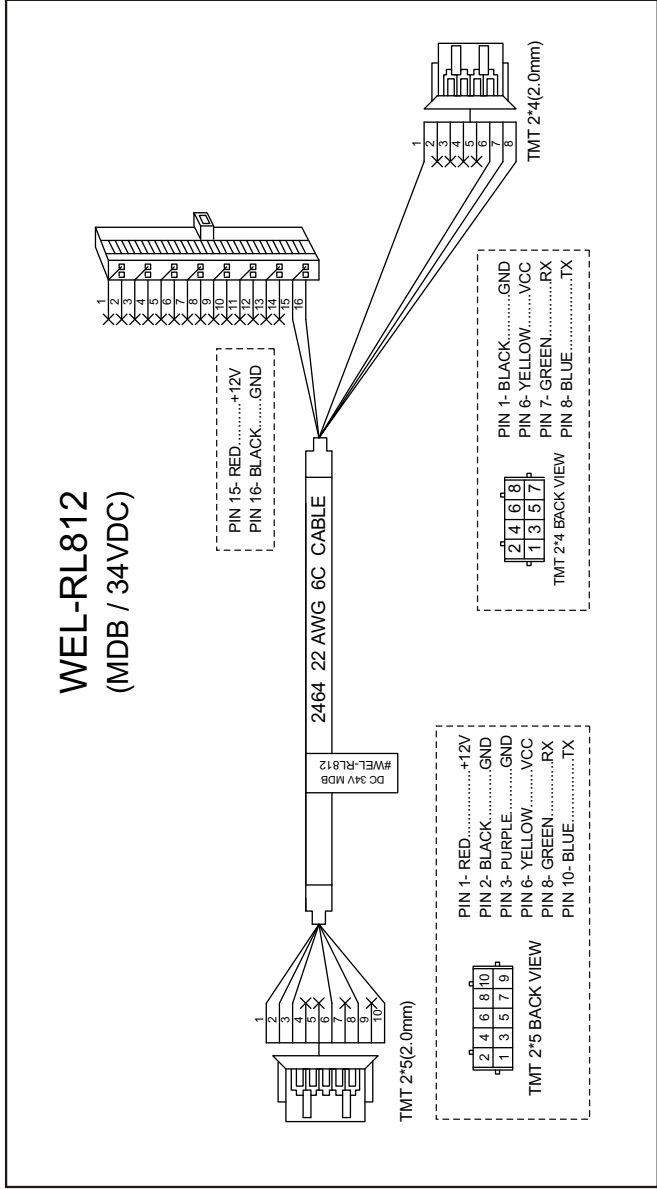


Figure.24

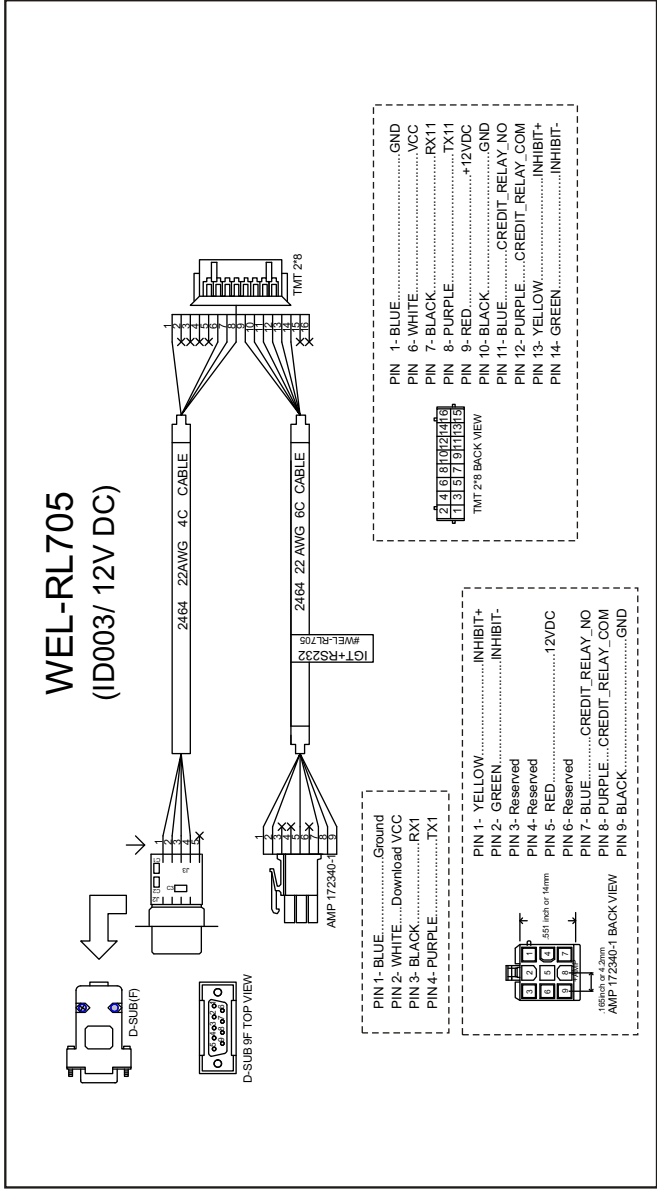


Figure.25

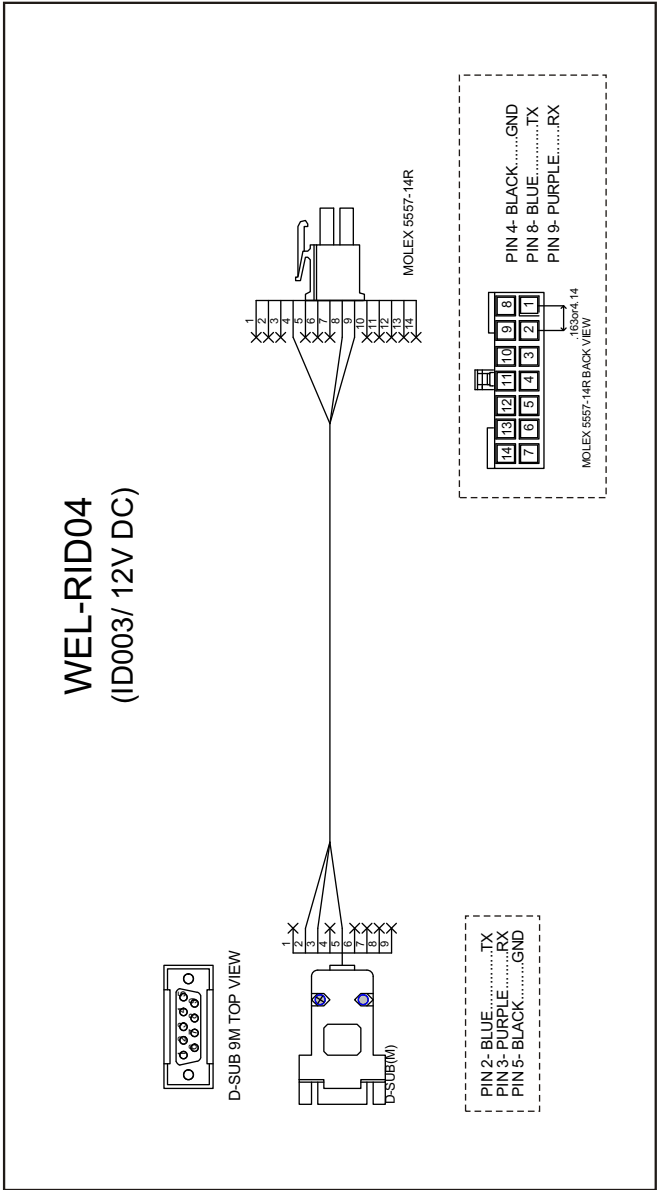
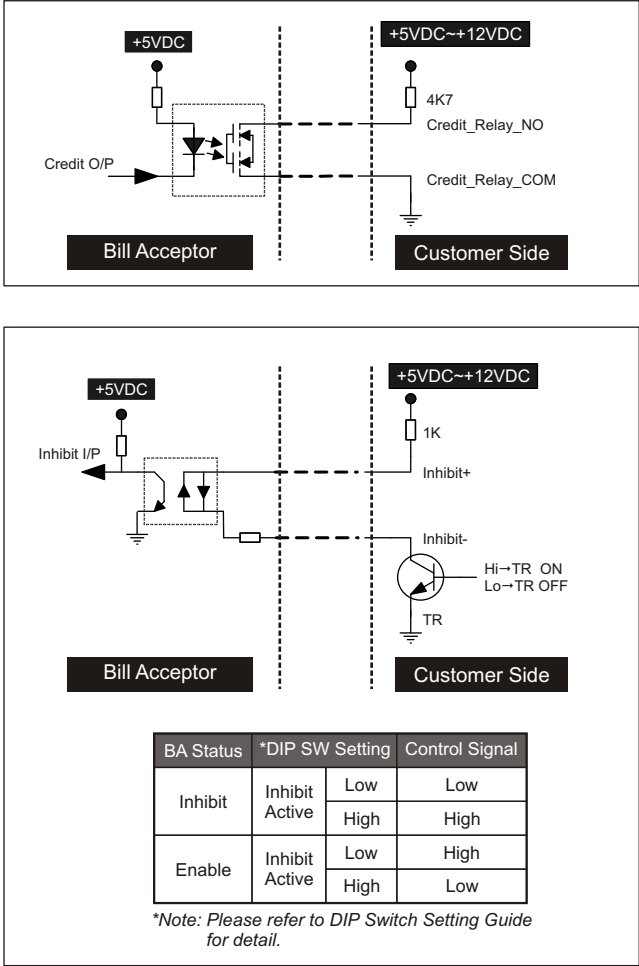


Figure.26

5-1-1. I/O Circuit

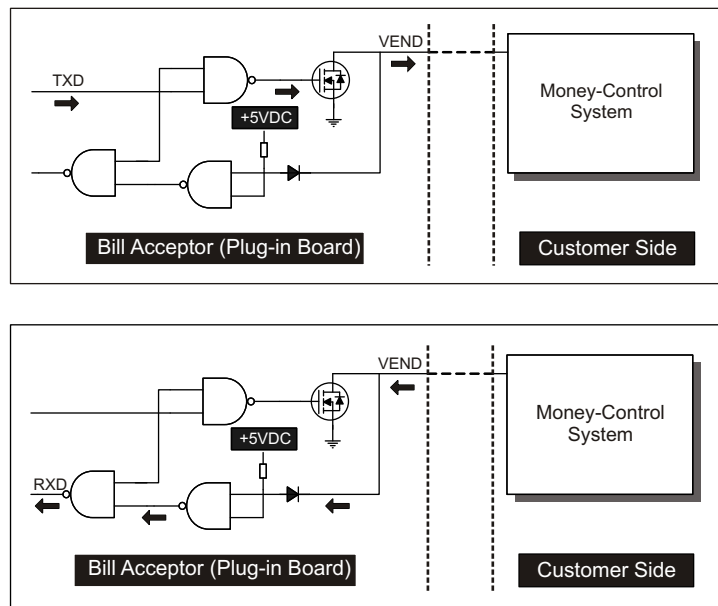
Pulse Interface.

Figure.27



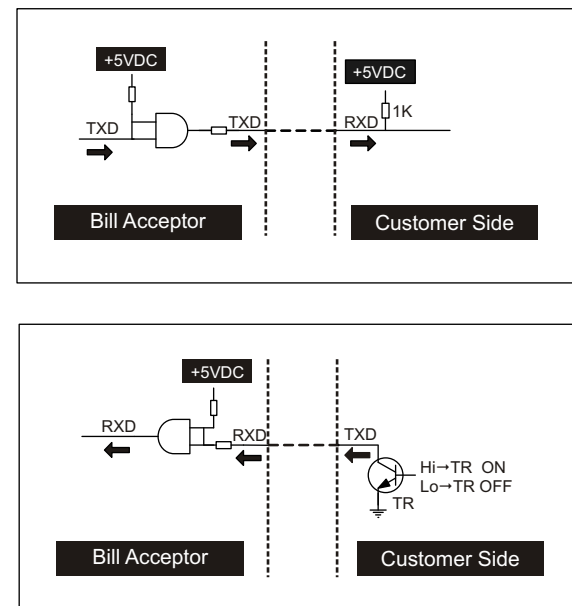
ccTalk Interface.

Figure.28



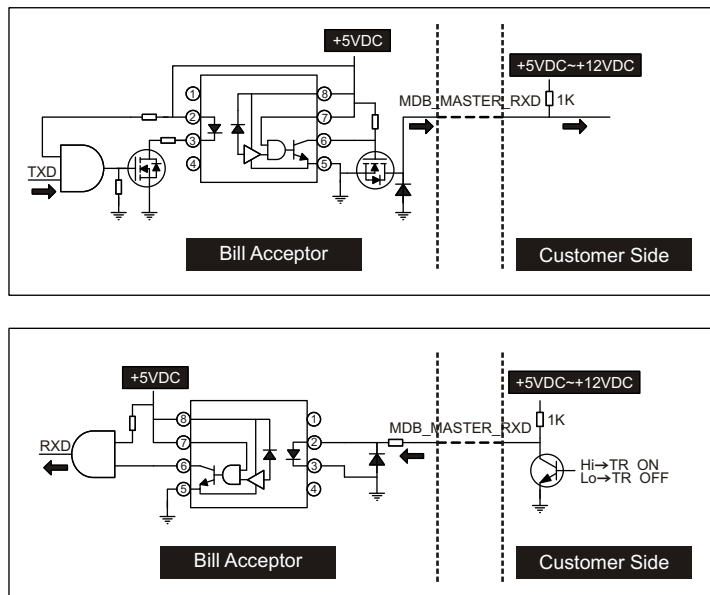
GBA, ID003, and CCNET Interface.

Figure.29



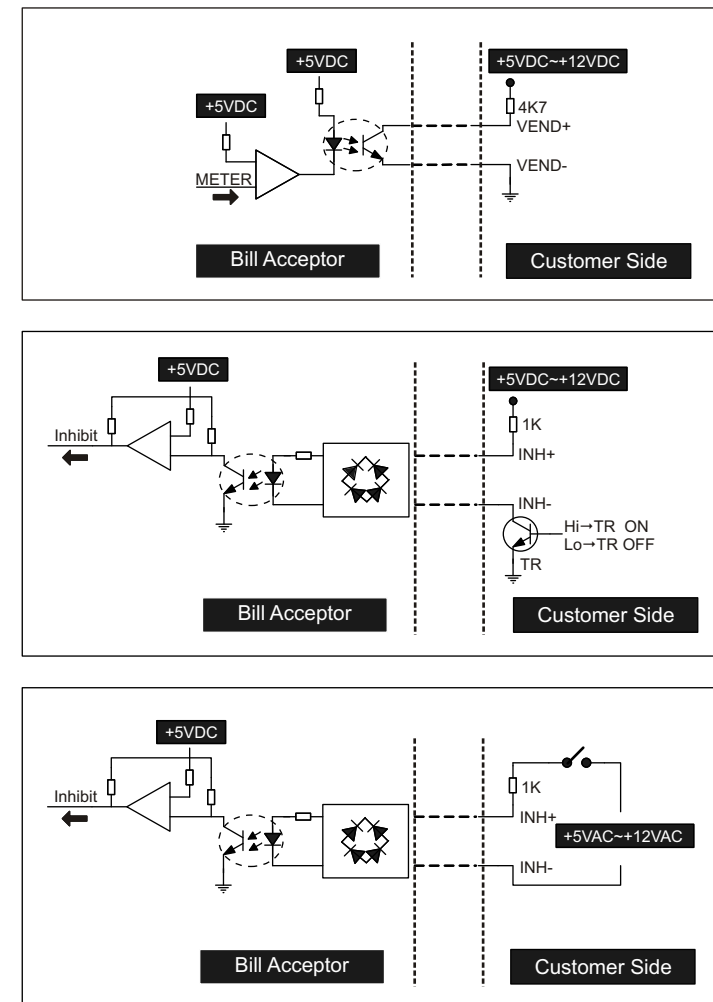
MDB Interface.

Figure.30



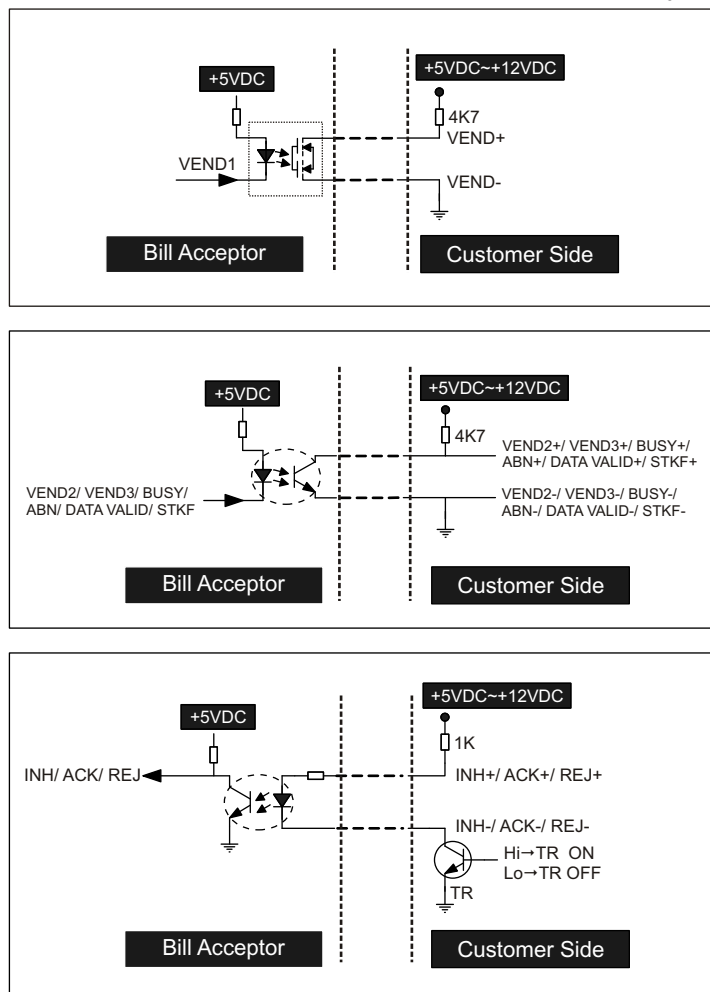
IGT Interface

Figure.31



Parallel Interface

Figure.32



5-2. DIP Switch Setting

There is one serial DIP switches which are located on the side of L series (as figure 33). According to different currencies which are used by users, DIP switch settings could be varied to fit users' need. Besides, there's also a serial DIP switches at the bottom of L series for interface settings (as figure 34).

Please refer to "L Series DIP Switch Setting" Guide in the package for more detail.

Figure.33

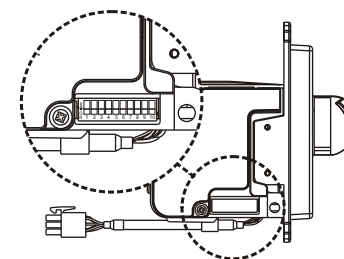
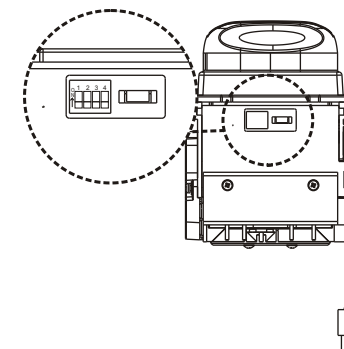


Figure.34

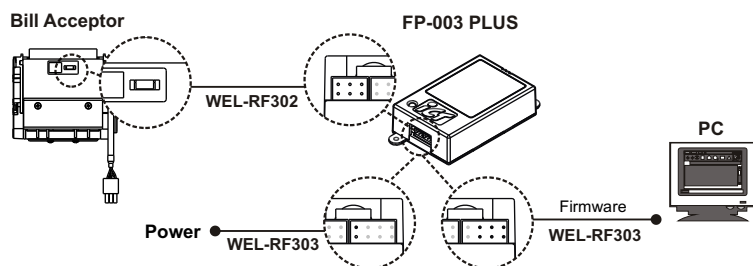


5-3. Software Download and Upgrade

To download and upgrade the software to L Series, the programmer (FP-003 PLUS/FP-004) is needed. Please contact ICT to purchase (FP-003 PLUS/FP-004) and refer to (FP-003 PLUS/FP-004) user guide for software download and upgrade information.

◆ FP-003 PLUS

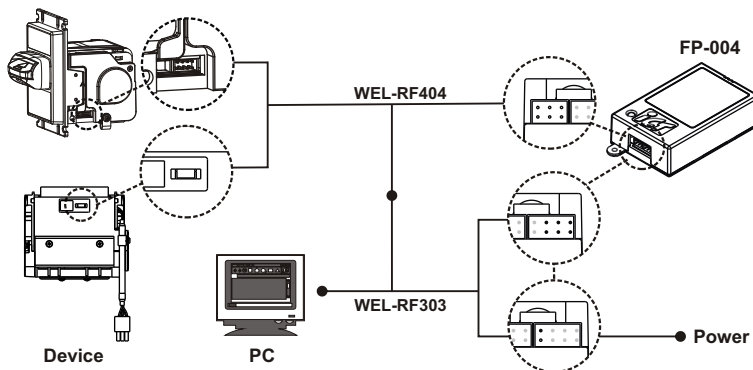
Figure.35



Turn on Bill Acceptor after connecting.

◆ FP-004

Figure.36



Turn on Bill Acceptor after connecting.

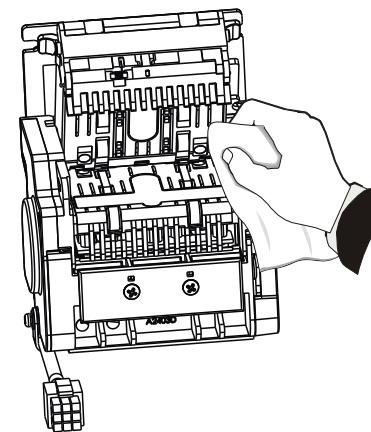
6. Maintenance

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

To clean the internal parts:

1. Turn Bill Acceptor off.
2. Open LED Assembly.
3. Use soft cloth or cotton swab to clean internal parts and bill path.

Figure.37



OK

Mild, non-abrasive, soap water.

DO NOT USE

Organic solvent , Alcohol, Volatility liquid

7. Troubleshooting

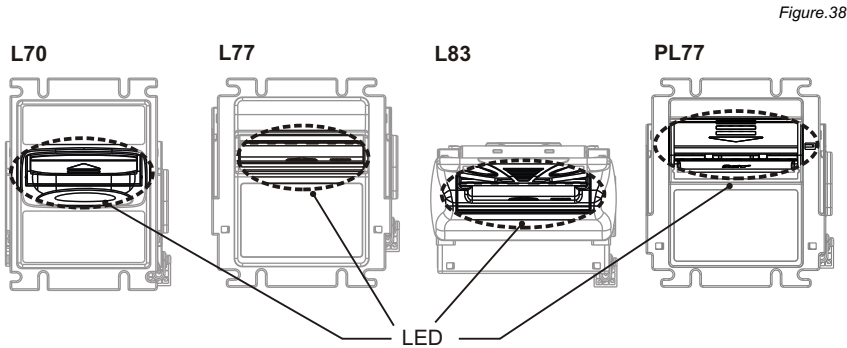


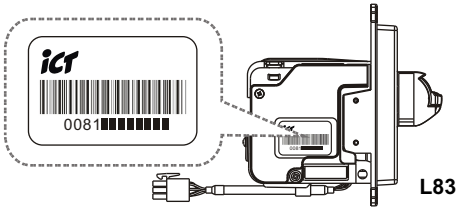
Table.3

LED Flashes	Status	Corrective Actions
1	Bill jammed.	Open bill path unit and then remove the jammed bill.
2	Disable	Inspect for right DIP switch setting.
3	General sensor error.	Inspect for foreign objects on sensor or bill path and clean.
3+2	Hook sensor error.	Inspect for foreign objects on security hook and clean.
3+4	Fish sensor error.	Inspect for foreign objects on sensor or bill path and clean.
4	A stringing attempt has detected.	Inspect for foreign objects on sensor or bill path and clean.
5	Bill box has been removed (for modules with bill boxes only).	Replace the bill box.
6	Stacking error or bill box full (for modules with bill boxes only) .	Empty the bill box.
7	Motor error.	Inspect for foreign objects on bill path and clean.

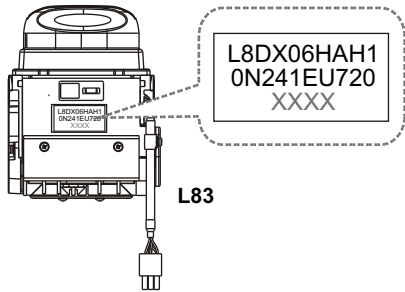
 If the error can not be solved after corrective actions or happen again, please contact ICT for technical support.

◆ ccTalk Information

- Manufacturer ID: ICT
- Equipment Category ID: Bill Acceptor
- Product Code: L83
- Serial Number: According to last 8 digits of production serial number (Default: 12345678).



- Software Revision: According to the software revision number.
Ex. L8DX06HAH10N241EU720



- Encryption Mode Password: Default as 123456 (command chargeable).

 Please contact ICT for more information.



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