Bill Acceptor

SERIES

Installation Guide

International Currency Technologies Corp.

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Contents

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, automatic self-adjusting sensor system, and easy maintenance to increase acceptance rates and reduce bill jammed.

1-2. Features

- Auto-calibration.
- Easy maintenance.
- Fast program update.
- Selective interfaces.
- Anti-string technology.
- Speedy bill transaction.
- Multicolor illumination bezel design.
- Multinational currencies acceptable.
- Fixed width/ multi-width bill acceptable.
- Lightweight and durable plastic construction.
- New generation design of verification system.

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 Time Approx. 3 seconds to stack

Interface

L70#:
Pulse, RS232, RS232 A0, ccNet(compatible), MDB, ccTalk.

L70:
Pulse, RS232, RS232 A0, Parallel A1 .

L70F, L77F:
Pulse, RS232, RS232 A0, ccNet(compatible), MDB, ccTalk, Pulse(Out of service).

L83:
Pulse, RS232, RS232 A0, ccNet(compatible), MDB, ccTalk, RS232 A1, Parallel, Pulse(Out of service), Parallel A4.

L83#:
Pulse, RS232, RS232 A0, ccNet(compatible), MDB, ccTalk, RS232 A1, Pulse(Out of service)

L70T, L77T:
Pulse, RS232, RS232 A0, ccNet(compatible), MDB, ccTalk, Pulse(Out of service) , V2.2.

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

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Electrical

Power Source

L70#, L70F, L77F, L83#, L70T, L77T:
12V DC(10~16V DC)
Others: 12V DC(10.8~13.2V DC)

Power Consumption

Standby : 0.3A, 3.6W
Operation: 1.2A, 14.4W
Maximum: 2A, 24W

Operation Environment

Operation Temperature:
L70, L83: 0°C~50°C
L70F, L77F, L70T, L77T: 0°C~60°C
L70#, L83#: 0°C~65°C
Storage Temperature: -20°C~70°C
Humidity: 30%~85%RH(no condensation)

Mechanical

Outline Dimension

L70#-P2/P5, L70F-P2/P5 :
N Type Bezel Refer to page. 6
O Type Bezel Refer to page. 7
L77F-P2/P5: I Bezel Refer to page. 8
L83-P3/P6, L83#-P3/P6:
E Type Bezel Refer to page. 9
F Type Bezel Refer to page.10
Y Type Bezel Refer to page.11
L70T-P5, L77T-P5:
Without metal bracket Refer to page.12
With metal bracket Refer to page.13

Bill Box Capacity

L70#-P2, L70F-P2: Approx.200 bills
L70#-P5, L70F-P5: Approx.500 bills
L77F-P2: Approx.150 bills
L77F-P5: Approx.500 bills
L83-P3, L83#-P3: Approx.300 bills
L83-P6, L83#-P6: Approx.600 bills
L70T-P5, L77T-P5: Approx.500 bills

Weight	**L70#, L70F**: Approx.0.52kg **L70#-P2, L70F-P2**: Approx.1.25kg **L70#-P5, L70F-P5**: Approx.1.4kg **L77F**: Approx.0.44kg **L77F-P2**: Approx.1.35kg **L77F-P5**: Approx.1.42kg **L83, L83#**: Approx.0.8kg **L83-P3, L83#-P3**: Approx.1.46kg **L83-P6, L83#-P6**: Approx.1.65kg **L70T-P5, L77T-P5**: (Without metal bracket) Approx.1.42kg (With metal bracket) Approx.7kg
Bill Accepted Width	**L70#-P2/P5, L70F-P2/P5:** (67mm) 59mm~67mm (71mm) 59mm~71mm **L77F-P2/P5**: 72mm~77mm **L83-P3/P6, L83#-P3/P6**: 61mm~83mm 61mm~79mm(Y Type Bezel) **L70T-P5**: 65mm~70mm **L77T-P5**: 72mm~77mm
Installation	**Indoor**

3. Packing List

Main	Bill Acceptor
Accessory	Harness: Refer to **5-1** Bezel Sticker Screw Pack L Series Installation Guide L Series DIP Switch Setting Guide

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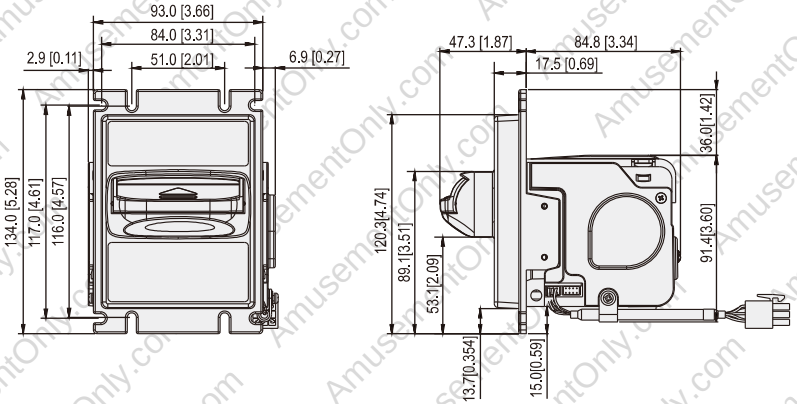
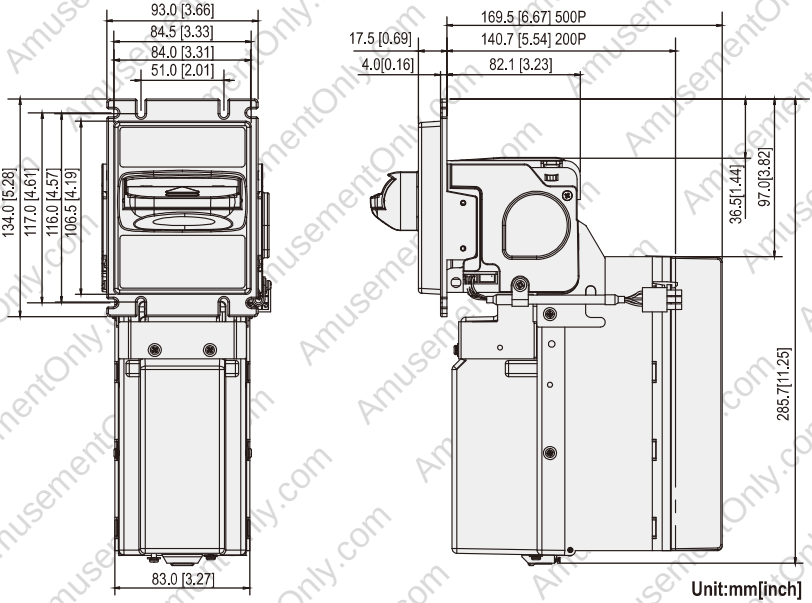
4. Dimension

L70 N Type Bezel: A Bezel(67mm) and B Bezel(71mm)



4 FIG.01

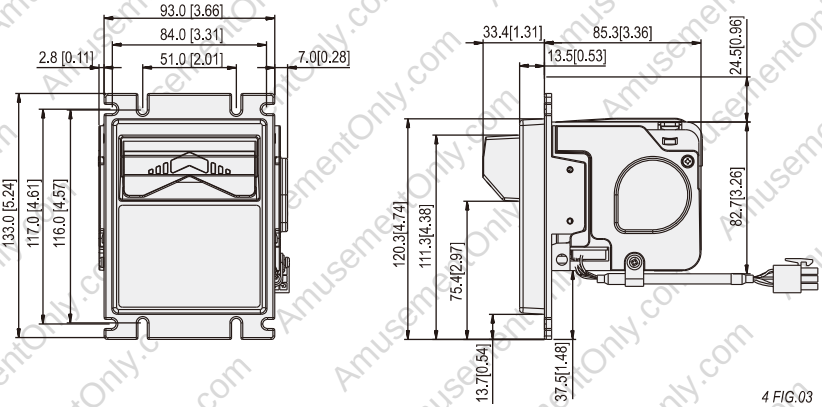
L70-P2/P5 N Type Bezel: A Bezel(67mm) and B Bezel(71mm)



Unit:mm[inch]

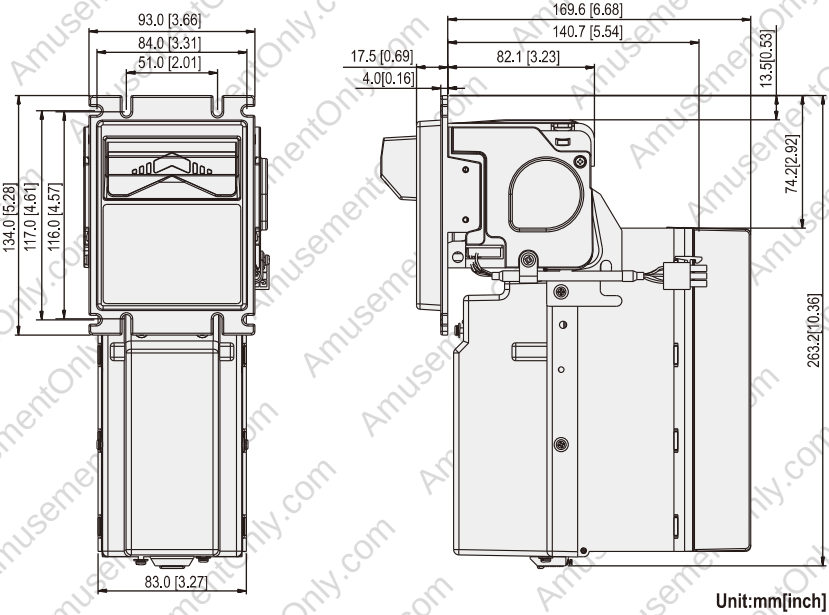
4 FIG.02

L70 O Type Bezel (71mm)



4 FIG.03

L70-P2/P5 O Type Bezel (71mm)



Unit:mm[inch]

4 FIG.04

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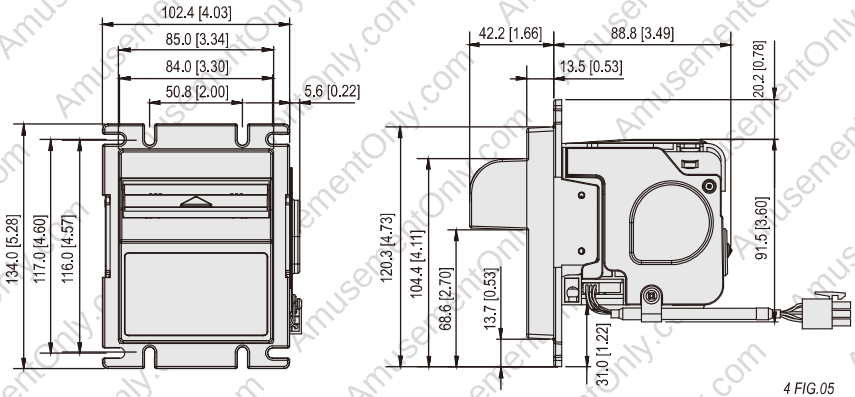
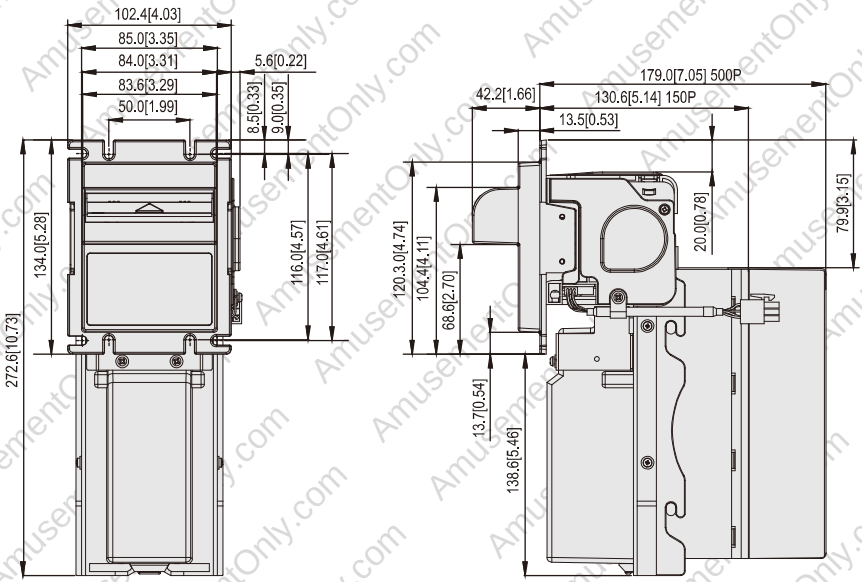
L77F I Bezel (78mm)



4 FIG.05

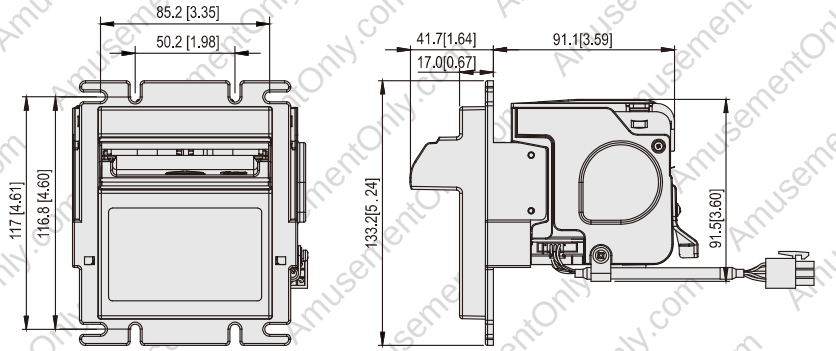
L77F-P2/P5 I Bezel (78mm)



Unit:mm[inch]

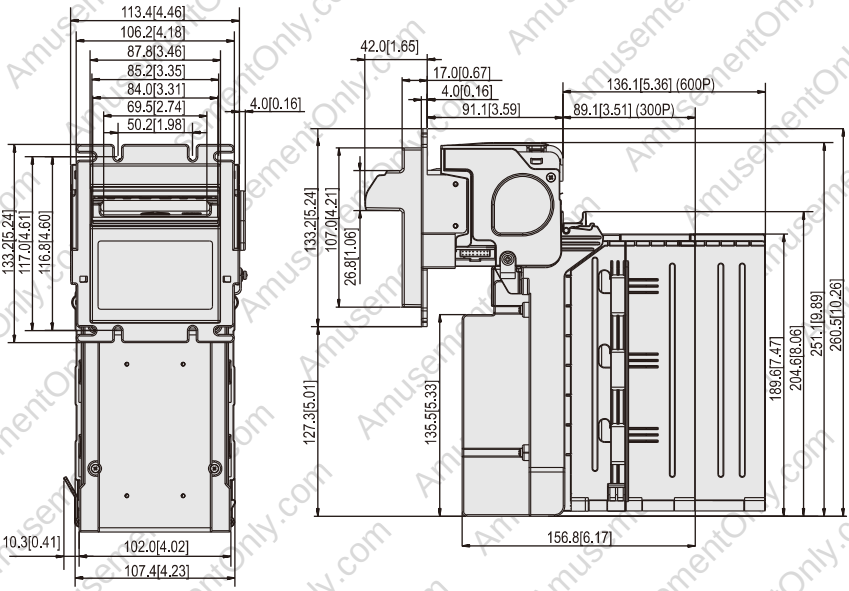
4 FIG.06

L83 E Type Bezel (83mm)



4 FIG.07

L83-P3/P6 Down Stacker E Type Bezel (83mm)



Unit:mm[inch]

4 FIG.08

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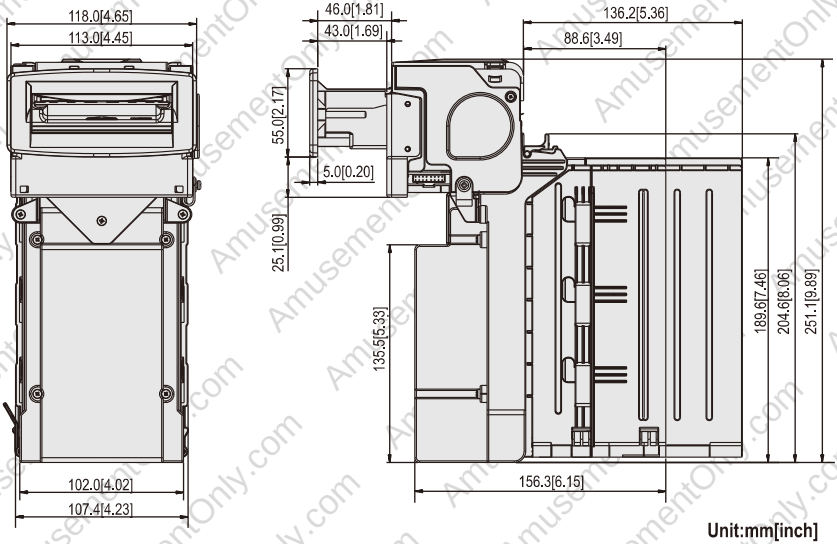
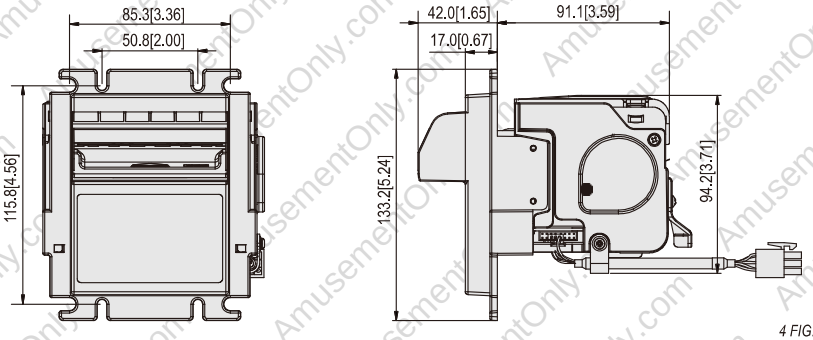
L83-P3/P6 Down Stacker F Type Bezel (83mm)



Unit:mm[inch]

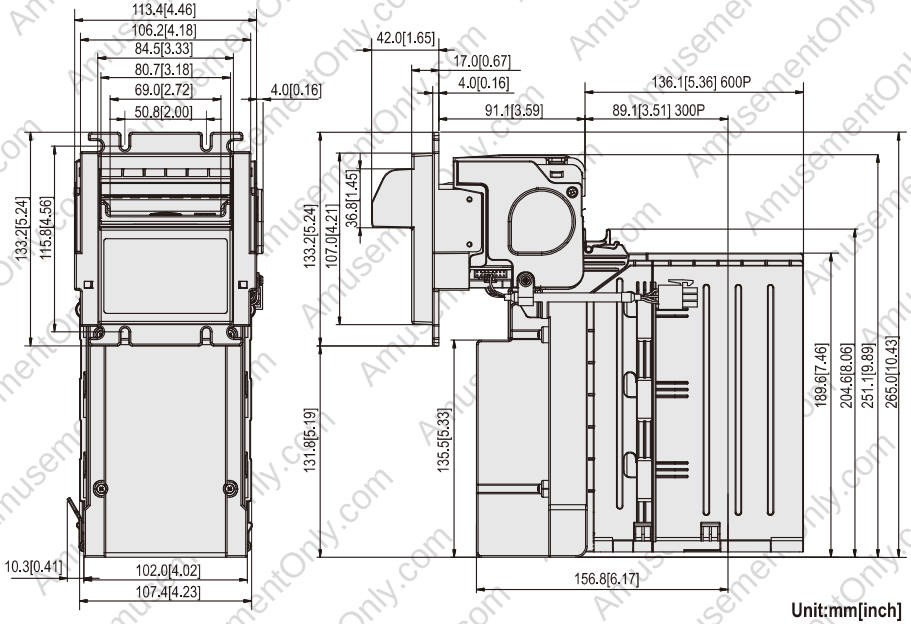
4 FIG.09

L83 Y Type Bezel (79mm)



4 FIG.10

L83-P3/P6 Down Stacker Y Type Bezel (79mm)



Unit:mm[inch]

4 FIG.11

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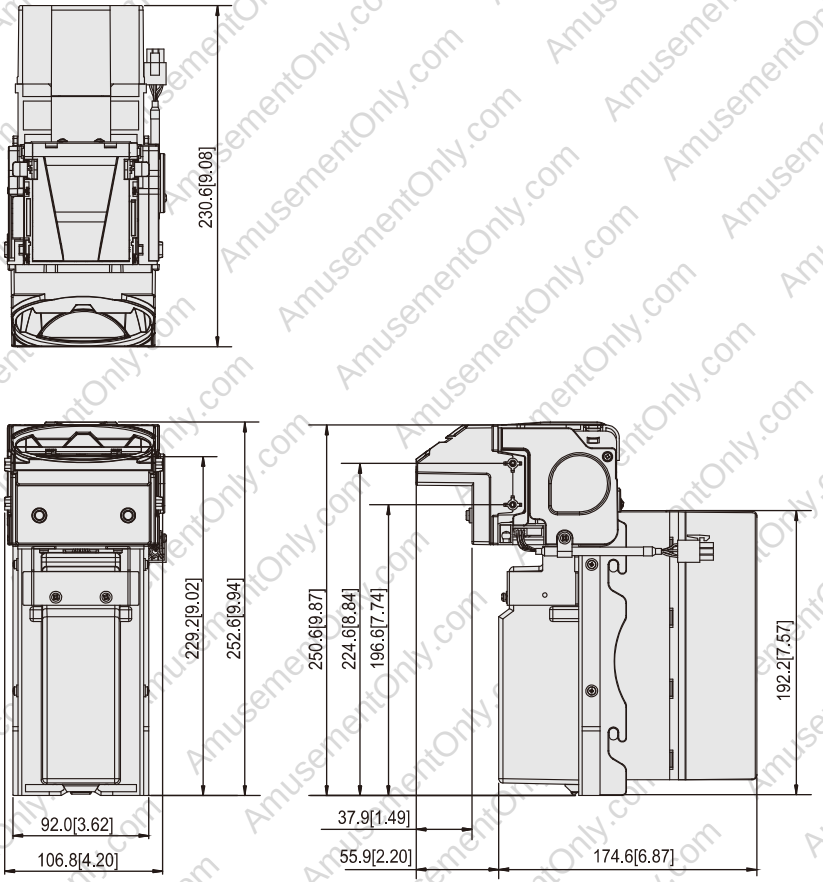
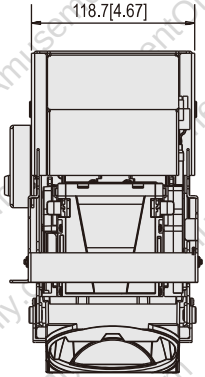
L70T-P5, L77T-P5 <Without metal bracket>

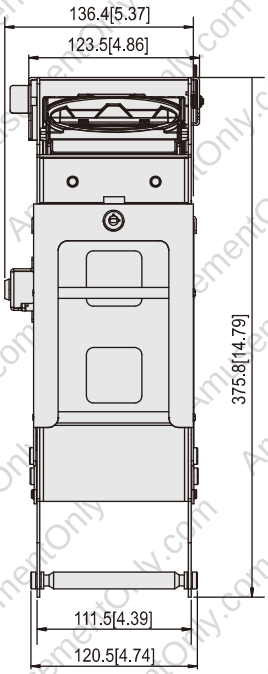


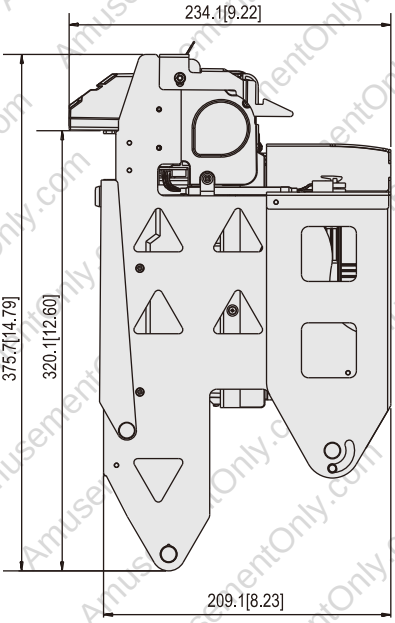
Unit:mm[inch]

4 FIG.12

L70T-P5, L77T-P5 <With metal bracket>







Unit:mm[inch]

4 FIG.13

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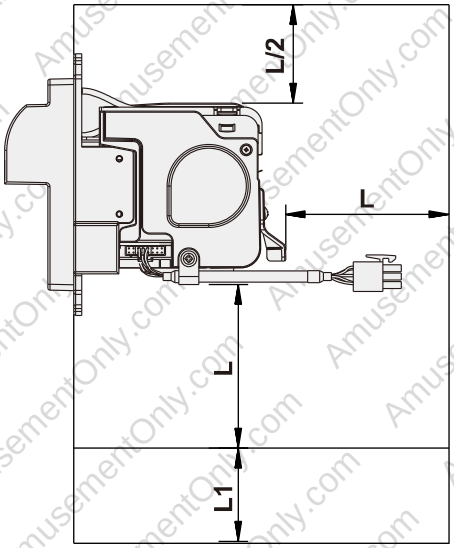
To install the bill acceptor on your VMC, please be aware of the dimension as below:

[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.



4 FIG.14

5. Installation

5-1. Harness Application

5-1 TABLE 01

Model	Interface	Used Voltage	Usage	Harnesses	Page
L70	Pulse	12V DC	Power & *Data Comm. ★3	WEL-RL702	20
			Extension Wire	CU-R961-1	19
	ICT(RS232)	12V DC	Power & *Data Comm.	WEL-RL703 ★1	21
	Parallel A1	12V DC	Power & *Data Comm.	WEL-RL701	20
			Extension Wire	WEL-R061	23
	RS232 A0	12V DC	Power & *Data Comm.	WEL-RL705-1	22
			Extension Wire	WEL-RID04	23
	ccTalk	12V DC	Power & *Data Comm. (BA↔Plug-in Board)	5RBA-RAB248MX	
L70# L70F L77F	Pulse	12V DC	Power & *Data Comm.	WEL-R7U02	24
			Extension Wire	CU-R961-1	19
	ICT (RS232)	12V DC	Power & *Data Comm.	WEL-R7U02	24
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	ccNet compatible	12V DC	Power & *Data Comm.	WEL-R7U02	24
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	RS232 A0	12V DC	Power & *Data Comm.	WEL-R7U02	24
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	MDB	★4 34V DC	Power & *Data Comm. (BA↔Plug-in Board) ★5	WEL-RBG01	26
			Power & *Data Comm.(35cm) (Plug-in Board↔VMC)	WEL-RBG08	27
			Power & *Data Comm.(200cm) (Plug-in Board↔VMC)	WEL-RBG07	26

★1. Maintenance use only.
★2. WEL-R7U06-2 : 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. MDB Box : 5RBG-AA313NA0 For L70#, L70F, L77F, L70T, L77T, 5RBG-AA313NAA For L83, L83#.

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5-1 TABLE 02

Model	Interface	Used Voltage	Usage	Harnesses	Page
L70#	ccTalk	12V DC	Power & *Data Comm. ★3 (BA↔Plug-in Board)	5RBA-RAA248MX	
	ccTalk	12V DC	Power	WEL-R7U02	24
			*Data Comm.	3-BA-RL70#RS232-B	27
	Pulse	110V AC	Power & *Data Comm. (BA↔Plug-in Board)	5RBA-RAA315-L	29
					30
L70F L77F	Pulse (Out of service)	12V DC	Power & *Data Comm.	WEL-RL826	36
			Extension Wire	CU-R961-1	19
	ccTalk	12V DC	Power & *Data Comm.	WEL-RL77F01	28
L83	Pulse	12V DC	Power & *Data Comm.	WEL-RL802	31
			Extension Wire	CU-R961-1	19
	ccTalk	12V DC	Power & *Data Comm.	WEL-RL803	32
				IDC-RA10400	38
				CNT-R7025	38
				WEL-RL824	34
	RS232 A1	12V DC	Power & *Data Comm.	WEL-RL805	33
	ICT (RS232)	12V DC	Power	WEL-RL802	31
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	ccNet compatible	12V DC	Power	WEL-RL802	31
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	MDB	34V DC ★4	Power & *Data Comm.★5 (BA↔Plug-in Board)	WEL-RL812	34
			Power & *Data Comm.(35cm) (Plug-in Board↔VMC)	WEL-RBG08	27
			Power & *Data Comm.(200cm) (Plug-in Board↔VMC)	WEL-RBG07	26
	RS232 A0	12V DC	Power	WEL-RL802	31
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25

★2. WEL-R7U06-2 : 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. MDB Box : 5RBG-AA313NA0 For L70#, L70F, L77F, L70T, L77T, 5RBG-AA313NAA For L83, L83#.

5-1 TABLE 03

Model	Interface	Used Voltage	Usage	Harnesses	Page
L83	Parallel	12V DC	Power & *Data Comm. ★3	WEL-RL804	32
	Parallel A4		Power & *Data Comm.	WEL-RL806	33
	Pulse(Out of service)		Power & *Data Comm.	WEL-RL825	35
			Extension Wire	CU-R961-1	19
L83#	Pulse	12V DC	Power & *Data Comm.	WEL-RL802	31
			Extension Wire	CU-R961-1	19
	ccTalk	12V DC	Power & *Data Comm.	WEL-RL803	32
				IDC-RA10400	38
				CNT-R7025	38
				WEL-RL824	34
	RS232 A1	12V DC	Power & *Data Comm	WEL-RL805	33
	ICT (RS232)	12V DC	Power	WEL-RL802	31
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	ccNet compatible	12V DC	Power	WEL-RL802	31
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	MDB	★4 34V DC	Power & *Data Comm. ★5 (BA↔Plug-in Board)	WEL-RL812	34
			Power & *Data Comm.(35cm) (Plug-in Board↔VMC)	WEL-RBG08	27
			Power & *Data Comm.(200cm) (Plug-in Board↔VMC)	WEL-RBG07	26
	RS232 A0	12V DC	Power	WEL-RL802	31
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	Pulse(Out of service)	12V DC	Power & *Data Comm.	WEL-RL825	35
			Extension Wire	CU-R961-1	19

★2. WEL-R7U06-2 : 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. MDB Box : 5RBG-AA313NA0 For L70#, L70F, L77F, L70T, L77T, 5RBG-AA313NAA For L83, L83#.

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5-1 TABLE 04

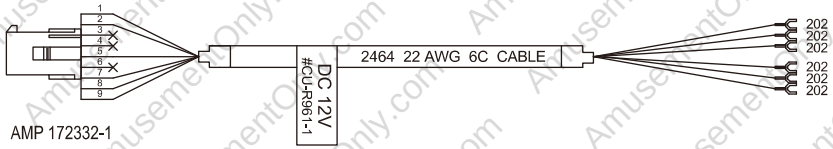
Model	Interface	Used Voltage	Usage	Harnesses	Page
L70T L77T	Pulse	12V DC	Power & *Data Comm. ★3	WEL-R7U02	24
			Extension Wire	CU-R961-1	19
	ICT (RS232)	12V DC	Power & *Data Comm.	WEL-R7U02	24
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	ccNet compatible	12V DC	Power & *Data Comm.	WEL-R7U02	24
			Extension Wire	CU-R961-1	19
			*Data Comm.	WEL-R7U06-2 ★2 or 2-BA-R7U06	25
	MDB	★4 34V DC	Power & *Data Comm. (BA↔Plug-in Board) ★5	WEL-RBG01	26
			Power & *Data Comm.(35cm) (Plug-in Board↔VMC)	WEL-RBG08	27
			Power & *Data Comm.(200cm) (Plug-in Board↔VMC)	WEL-RBG07	26
	Pulse (Out of service)	12V DC	Power & *Data Comm.	WEL-RL826	36
			Extension Wire	CU-R961-1	19
	RS232 A0	24V DC	Power & *Data Comm.	3BA-RAA318-NX-0X	37
	V2.2				37
	ccTalk	12V DC	Power & *Data Comm.	WEL-RL77F01	28

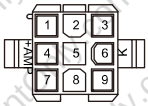
★2. WEL-R7U06-2 : TTL Level to ±12VDC Level for PC.
★3. Data Comm. : Data Communication.
★4. MDB 34VDC : VMC Provides +34VDC to MDB Plug-in Board to convert into +12VDC, and provides +12VDC to L series bill acceptors.
★5. MDB Box : 5RBG-AA313NA0 For L70#, L70F, L77F, L70T, L77T, 5RBG-AA313NAA For L83, L83#.

5-1 FIG. 01

Interface	Used Voltage	Usage
Pulse	12V DC	Extension Wire for WEL-RL702
Pulse	12V DC	Extension Wire for WEL-R7U02
ICT(RS232)	12V DC	
ccNet compatible	12V DC	
RS232 A0	12V DC	
Pulse	12V DC	Extension Wire for WEL-RL802
ICT(RS232)	12V DC	
ccNet compatible	12V DC	
Pulse(Out of service)	12V DC	Extension Wire for WEL-RL825
Pulse(Out of service)	12V DC	Extension Wire for WEL-RL826

CU-R961-1





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

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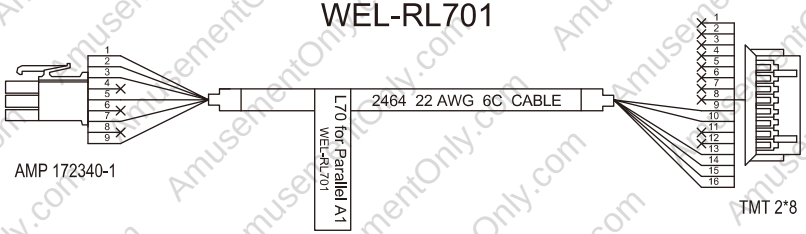
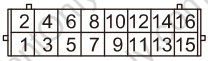
5-1 FIG.02

Interface	Used Voltage	Usage
Parallel A1	12V DC	Power & *Data Comm.

WEL-RL701



PIN 1- BLUE.....VEND+
PIN 2- PURPLE.....VEND-
PIN 3- YELLOW.....INHIBIT+
PIN 5- GREEN.....INHIBIT-
PIN 7- BLACK.....GND
PIN 9- RED.....+12V

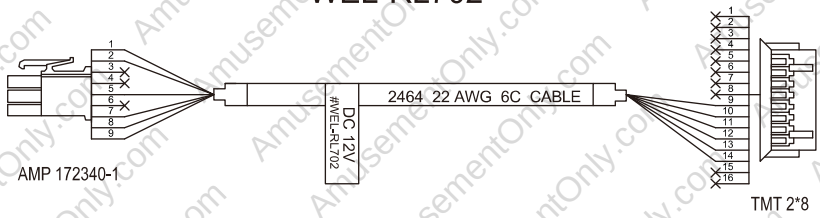


PIN 9- RED.....+12V
PIN 10- BLACK.....GND
PIN 13- YELLOW.....INHIBIT+
PIN 14- GREEN.....INHIBIT-
PIN 15- BLUE.....VEND+
PIN 16- PURPLE.....VEND-

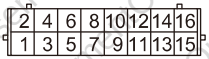
5-1 FIG.03

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

WEL-RL702



PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....+12V
PIN 7- BLUE.....Credit.Relay.No
PIN 8- PURPLE.....Credit.Relay.Com
PIN 9- BLACK.....GND

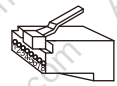


PIN 9- RED.....+12V
PIN 10- BLACK.....GND
PIN 11- BLUE.....Credit.Relay.No
PIN 12- PURPLE.....Credit.Relay.Com
PIN 13- YELLOW.....INHIBIT+
PIN 14- GREEN.....INHIBIT-

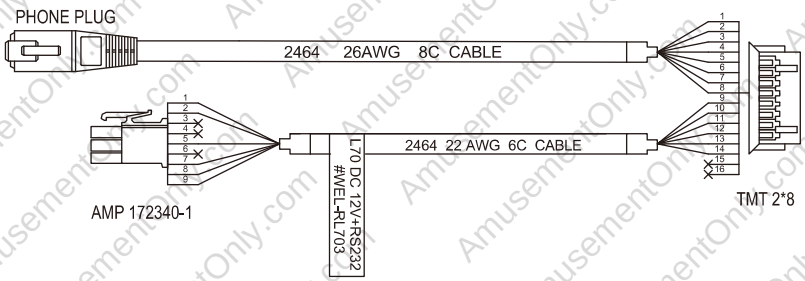
5-1 FIG.04

Interface	Used Voltage	Usage
ICT(RS232)	12V DC	Power & *Data Comm.

WEL-RL703

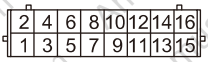


PHONE PLUG VIEW



AMP 172340-1 BACK VIEW

PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 3- RESERVED
PIN 4- RESERVED
PIN 5- RED.....12VDC
PIN 6- RESERVED
PIN 7- BLUE.....CREDIT_RELAY_NO
PIN 8- PURPLE.....CREDIT_RELAY_COM
PIN 9- BLACK.....GND



TMT 2*8 BACK VIEW

PIN 1- GRAY.....GND
PIN 2- ORANGE.....TX22
PIN 3- BLACK.....RX22
PIN 4- RED.....CAP
PIN 5- GREEN...../RESET
PIN 6- YELLOW.....VCC
PIN 7- BLUE.....RX11
PIN 8- BROWN.....TX11
PIN 9- RED.....12VDC
PIN 10- BLACK.....GND
PIN 11- BLUE.....CREDIT_RELAY_NO
PIN 12- PURPLE.....CREDIT_RELAY_COM
PIN 13- YELLOW.....INHIBIT+
PIN 14- GREEN.....INHIBIT-

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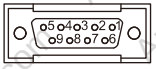
5-1 FIG.05

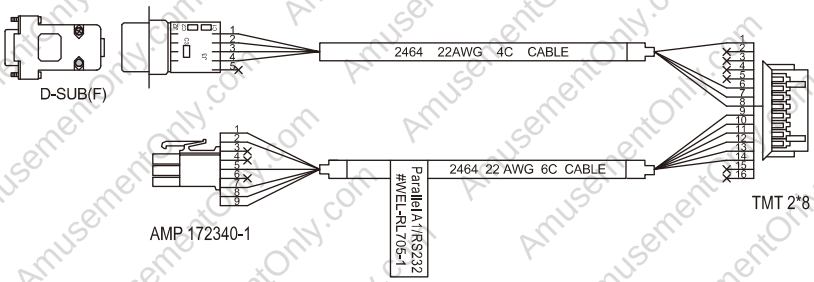
Interface	Used Voltage	Usage
RS232 A0	12V DC	Power & *Data Comm.

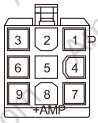
WEL-RL705-1



D-SUB 9F TOP VIEW

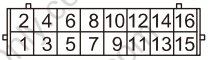
PIN 1- BLUE.....Ground
PIN 2- WHITE.....Download VCC
PIN 3- BLACK.....RX1
PIN 4- PURPLE.....TX1





AMP 172340-1 BACK VIEW

PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 3- RESERVED
PIN 4- RESERVED
PIN 5- RED.....12VDC
PIN 6- Reserved
PIN 7- BLUE.....CREDIT_RELAY_NO
PIN 8- PURPLE.....CREDIT_RELAY_COM
PIN 9- BLACK.....GND

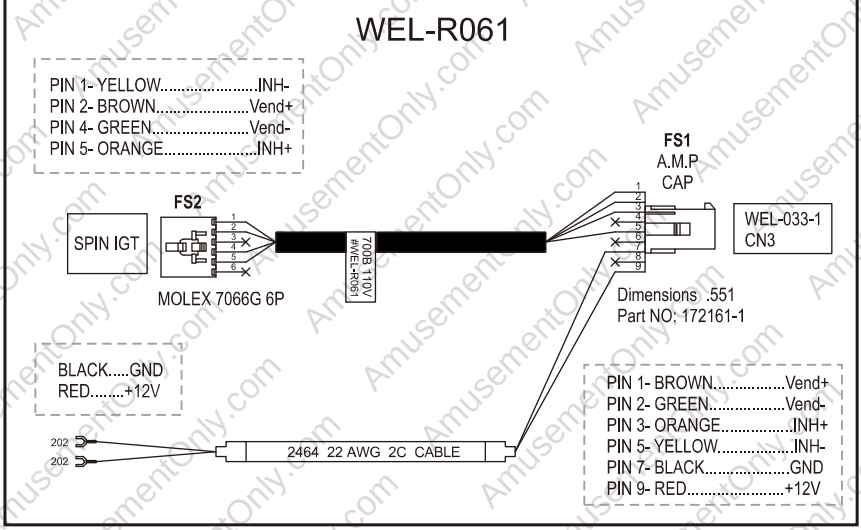


TMT 2*8 BACK VIEW

PIN 1- BLUE.....GND
PIN 6- WHITE.....VCC
PIN 7- BLACK.....RX11
PIN 8- PURPLE.....TX11
PIN 9- RED.....+12VDC
PIN 10- BLACK.....GND
PIN 11- BLUE.....CREDIT_RELAY_NO
PIN 12- PURPLE.....CREDIT_RELAY_COM
PIN 13- YELLOW.....INHIBIT+
PIN 14- GREEN.....INHIBIT-

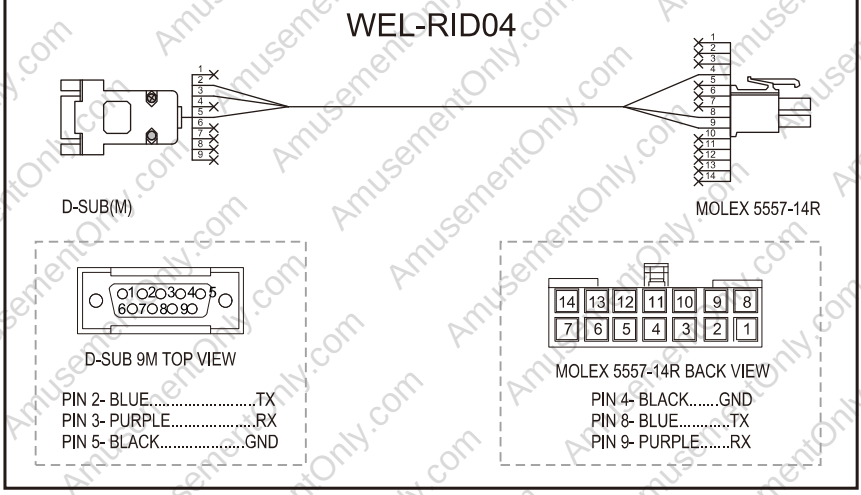
5-1 FIG.06

Interface	Used Voltage	Usage
Parallel A1	12V DC	Extension Wire for WEL-RL701



5-1 FIG.07

Interface	Used Voltage	Usage
RS232 A0	12V DC	Extension Wire for WEL-RL705-1



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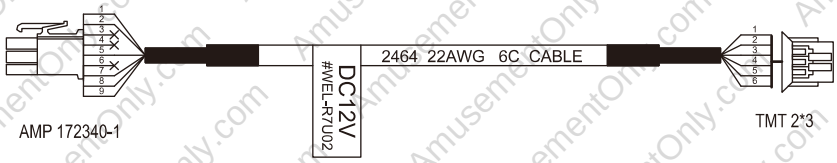
5-1 FIG.08

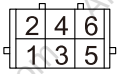
Interface	Used Voltage	Usage
Pulse	12V DC	Power & *Data Comm.
ICT(RS232)	12V DC	Power
ccNet compatible	12V DC	Power
RS232 A0	12V DC	Power
ccTalk	12V DC	Power

WEL-R7U02



AMP 172340-1 BACK VIEW

PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....12VDC HOT (POWER)
PIN 7- BLUE.....CREDIT RELAY (N.O.)
PIN 8- PURPLE.....CREDIT RELAY (Common)
PIN 9- ORANGE.....Ground (Power)



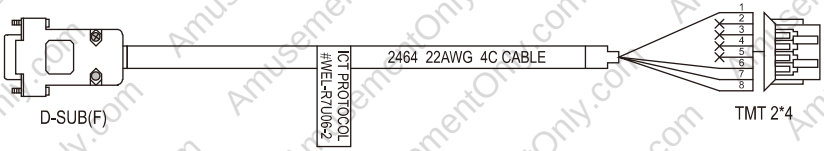
TMT 2*3 BACK VIEW

PIN 1- RED.....12VDC HOT (POWER)
PIN 2- ORANGE.....Ground (Power)
PIN 3- YELLOW.....INHIBIT+
PIN 4- GREEN.....INHIBIT-
PIN 5- BLUE.....CREDIT RELAY (N.O.)
PIN 6- PURPLE.....CREDIT RELAY (Common)

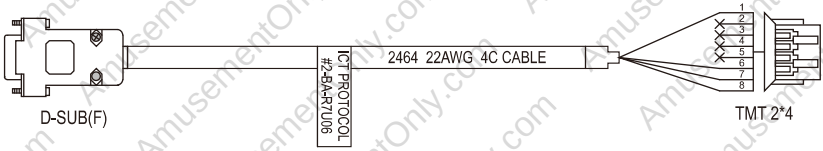
5-1 FIG.09

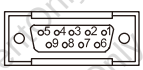
Interface	Used Voltage	Usage
ICT(RS232)	12V DC	*Data Comm.
ccNet compatible	12V DC	*Data Comm.
RS232 A0	12V DC	*Data Comm.

WEL-R7U06-2



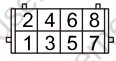
2-BA-R7U06





D-SUB 9F TOP VIEW

PIN 2- TXD
PIN 3- RXD
PIN 5- GND



TMT 2*4
BACK VIEW

PIN 1- BLUE.....Ground
PIN 6- WHITE.....Download VCC
PIN 7- BLACK.....RX1
PIN 8- PURPLE.....TX1

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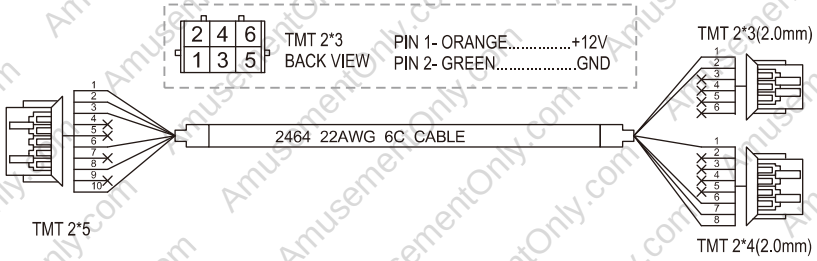
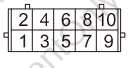
5-1 FIG.10

Interface	Used Voltage	Usage
MDB	34V DC	Power & *Data Comm. (BA↔Plug-in Board)

WEL-RBG01





TMT 2*5 BACK VIEW

PIN 1- ORANGE.....+12V
PIN 2- GREEN.....GND
PIN 3- PURPLE.....GND
PIN 6- YELLOW.....VCC
PIN 8- RED.....RX
PIN 10- BLUE.....TX

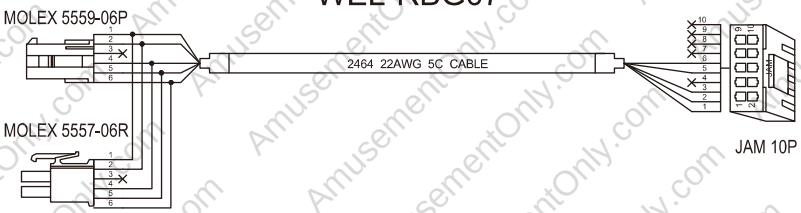
TMT 2*4
BACK VIEW

PIN 1- PURPLE.....GND
PIN 6- YELLOW.....VCC
PIN 7- RED.....RX
PIN 8- BLUE.....TX

5-1 FIG.11

Interface	Used Voltage	Usage
MDB	34V DC	Power & *Data Comm.(200cm) (MDB Box)

WEL-RBG07



MOLEX 5559-06P BACK VIEW

MOLEX 5557-06R BACK VIEW

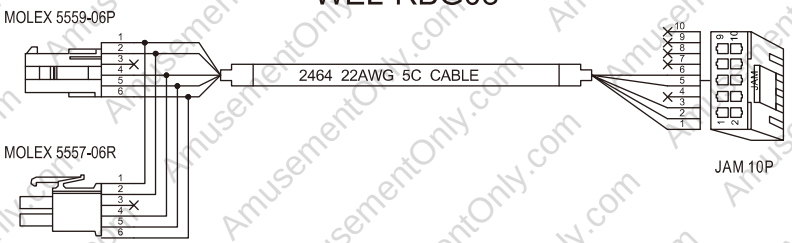
PIN 1- BLUE.....MDB+34VDC
PIN 2- YELLOW.....34VDC RETURN
PIN 4- ORANGE.....MDB_RX
PIN 5- RED.....MDB_TX
PIN 6- GREEN.....MDB_GND

PIN 1- YELLOW.....34VDC RETURN
PIN 2- BLUE.....MDB+34VDC
PIN 3- ORANGE.....MDB_RX
PIN 5- GREEN.....MDB_GND
PIN 6- RED.....MDB_TX

5-1 FIG.12

Interface	Used Voltage	Usage
MDB	34V DC	Power & *Data Comm.(35cm) (Plug-in Board↔VMC)

WEL-RBG08



MOLEX 5559-06P BACK VIEW

MOLEX 5557-6R BACK VIEW

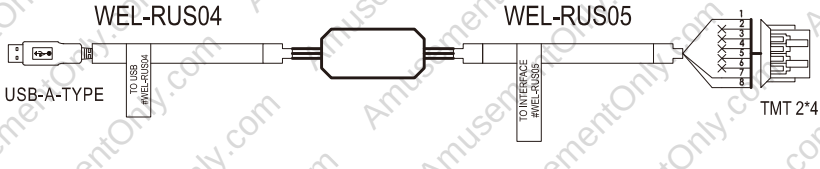
PIN 1- BLUE.....MDB+34VDC
PIN 2- YELLOW.....34VDC RETURN
PIN 4- ORANGE.....MDB_RX
PIN 5- RED.....MDB_TX
PIN 6- GREEN.....MDB_GND

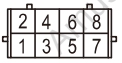
PIN 1- YELLOW.....34VDC RETURN
PIN 2- BLUE.....MDB+34VDC
PIN 3- ORANGE.....MDB_RX
PIN 5- GREEN.....MDB_GND
PIN 6- RED.....MDB_TX

5-1 FIG.13

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

3-BA-RL70#RS232-B





TMT 2*4 BACK VIEW

PIN 1- BLACK.....GND
PIN 7- RED.....RX11
PIN 8- YELLOW.....TX11

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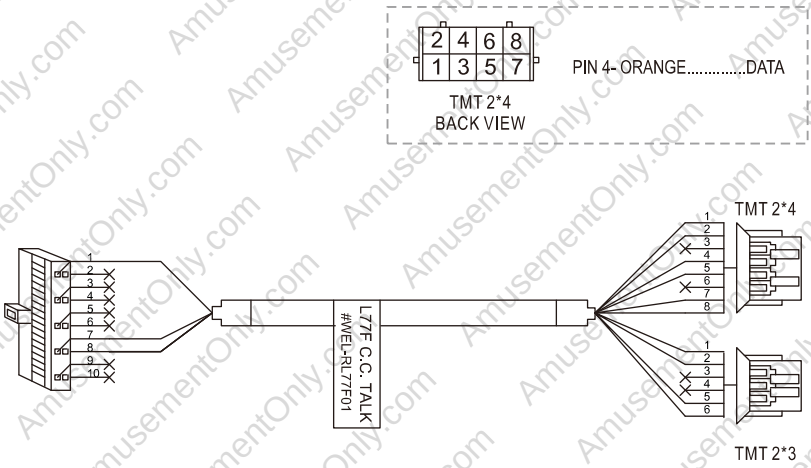
5-1 FIG.14

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

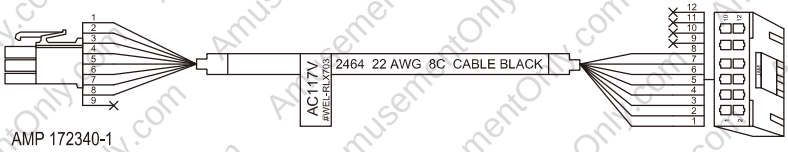
WEL-RL77F01

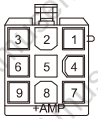


5-1 FIG.15

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

WEL-RLX703





AMP 172340-1 BACK VIEW

PIN 1- YELLOW.....NEUTRAL_INHIBIT
PIN 2- RED.....NEUTRAL_ENABLE
PIN 3- BROWN.....HOT_ENABLE
PIN 4- BLACK.....115VAC_HOT
PIN 5- GREEN.....EARTH_GROUND
PIN 6- WHITE.....115VAC_NEUTRAL
PIN 7- BLUE.....CREDIT_RELAY_NO
PIN 8- PURPLE.....CREDIT_RELAY_COM

PIN 1- WHITE.....115VAC_NEUTRAL
PIN 2- BLACK.....115VAC_HOT
PIN 3- BROWN.....HOT_ENABLE
PIN 4- GREEN.....EARTH_GROUND
PIN 5- YELLOW.....NEUTRAL_INHIBIT
PIN 6- RED.....NEUTRAL_ENABLE
PIN 7- BLUE.....CREDIT_RELAY_NO
PIN 8- PURPLE.....CREDIT_RELAY_COM

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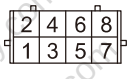
5-1 FIG.16

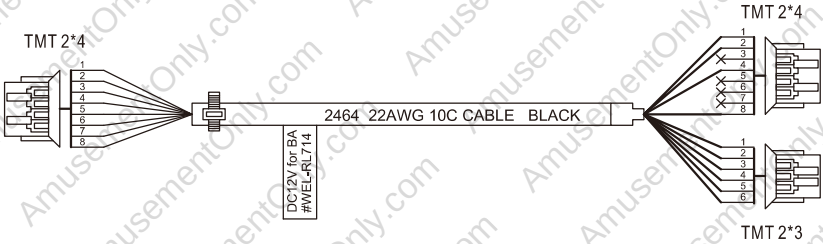
Interface	Used Voltage	Usage
Pulse	12V DC	Power & *Data Comm.

WEL-RL714



TMT 2*4
BACK VIEW

PIN 1- RED.....DC+12V
PIN 2- BLACK.....GND
PIN 3- YELLOW.....CREDIT_RELAY_NO
PIN 4- WHITE.....MDB_MASTER_TXD(ENABLE)
PIN 5- PURPLE.....RESERVE
PIN 6- GREEN.....INHIBIT+
PIN 7- BLUE.....INHIBIT-
PIN 8- BROWN.....CREDIT_RELAY_COM



TMT 2*4
BACK VIEW

PIN 1- GRAY.....RESERVE
PIN 2- ORANGE.....RESERVE
PIN 4- WHITE.....MDB_MASTER_TXD(ENABLE)
PIN 8- PURPLE.....RESERVE

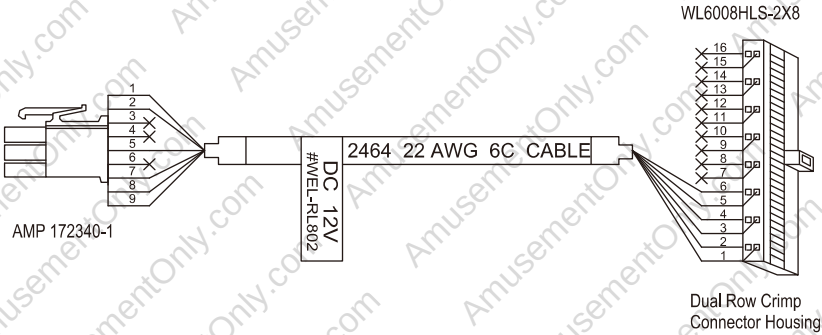
TMT 2*3
BACK VIEW

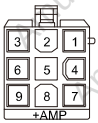
PIN 1- RED.....+12V
PIN 2- BLACK.....GND
PIN 3- GREEN.....INHIBIT+
PIN 4- BLUE.....INHIBIT-
PIN 5- YELLOW.....CREDIT_RELAY_NO
PIN 6- BROWN.....CREDIT_RELAY_COM

5-1 FIG.17

Interface	Used Voltage	Usage
Pulse	12V DC	Power & *Data Comm.
ccNet compatible	12V DC	Power
ICT(RS232)	12V DC	Power

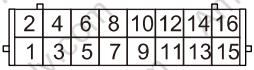
WEL-RL802





AMP 172340-1 BACK VIEW

PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....+12VDC
PIN 7- BLUE.....CREDIT RELAY NO
PIN 8- PURPLE.....CREDIT RELAY COM
PIN 9- BROWN.....GND



TMT 2*8 BACK VIEW

PIN 1- RED.....+12VDC
PIN 2- BROWN.....GND
PIN 3- BLUE.....CREDIT RELAY NO
PIN 4- PURPLE.....CREDIT RELAY COM
PIN 5- YELLOW.....INHIBIT+
PIN 6- GREEN.....INHIBIT-

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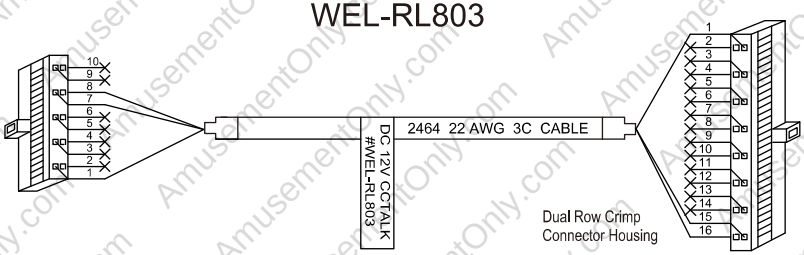
5-1 FIG.18

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

WEL-RL803



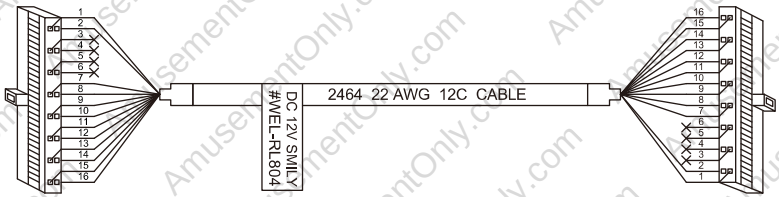
PIN 1- YELLOW.....DATA
PIN 7- RED.....+12VDC
PIN 8- BLACK.....GND

PIN 1- YELLOW.....DATA
PIN 15- RED.....+12VDC
PIN 16- BLACK.....GND

5-1 FIG.19

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

WEL-RL804



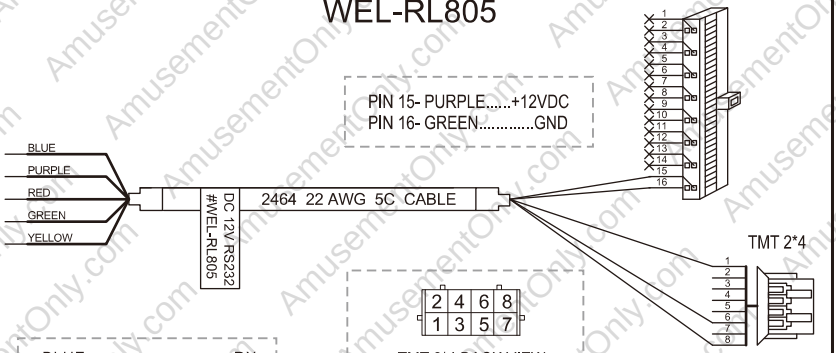
PIN 1- RED.....+12V
PIN 2- BLACK.....GND
PIN 7- YELLOW.....BUSY
PIN 8- GREEN.....ESCROW
PIN 9- BLUE.....INHIBIT 3
PIN 10- PURPLE.....INHIBIT 4
PIN 11- ORANGE.....INHIBIT 1
PIN 12- WHITE.....INHIBIT 2
PIN 13- BROWN.....VEND 3
PIN 14- GREEN LIGHT.....VEND 4
PIN 15- PINK.....VEND 1
PIN 16- BLUE LIGHT.....VEND 2

PIN 16- BLUE LIGHT.....VEND 2
PIN 15- PINK.....VEND 1
PIN 14- GREEN LIGHT.....VEND 4
PIN 13- BROWN.....VEND 3
PIN 12- WHITE.....INHIBIT 2
PIN 11- ORANGE.....INHIBIT 1
PIN 10- PURPLE.....INHIBIT 4
PIN 9- BLUE.....INHIBIT 3
PIN 8- GREEN.....ESCROW
PIN 7- YELLOW.....BUSY
PIN 2- BLACK.....GND
PIN 1- RED.....+12V

5-1 FIG.20

Interface	Used Voltage	Usage
RS232 A1	12V DC	Power & *Data Comm.

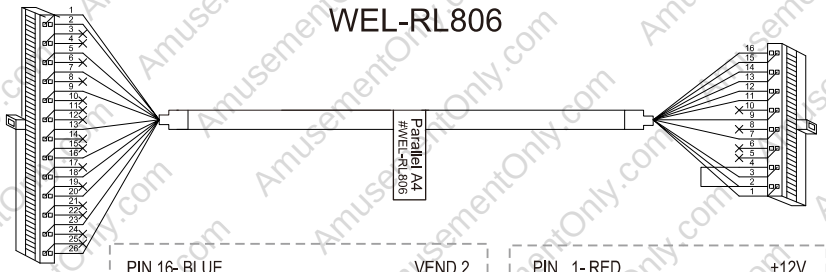
WEL-RL805



5-1 FIG.21

Interface	Used Voltage	Usage
Parallel A4	12V DC	Power & *Data Comm.

WEL-RL806



PIN 16- BLUE.....VEND 2
PIN 15- LIGHT BLUE.....VEND 1
PIN 14- PURPLE.....VEND 4
PIN 13- LIGHT GREEN.....VEND 3
PIN 12- GREEN.....INHIB 2
PIN 11- YELLOW.....INHIB 1
PIN 9- ORANGE.....INHIB 3
PIN 7- BROWN.....BUSY
PIN 3- WHITE.....Pulse Credit (O.N.)
PIN 2- BLACK.....GND Pulse Credit(common)
PIN 1- RED.....+12V

PIN 1- RED.....+12V
PIN 2- BLACK.....GND
PIN 5- LIGHT BLUE.....VEND 1
PIN 7- BLUE.....VEND 2
PIN 9- LIGHT GREEN.....VEND 3
PIN 13- PURPLE.....ABN
PIN 16- YELLOW.....INHIBIT
PIN 18- GREEN.....ACK
PIN 20- ORANGE.....REJ
PIN 23- BROWN.....STKF
PIN 26- WHITE.....PRES

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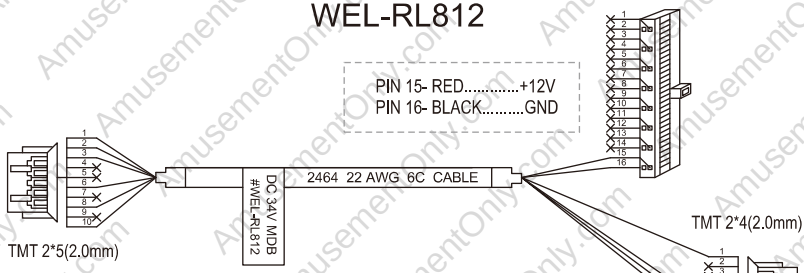
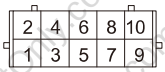
5-1 FIG.22

Interface	Used Voltage	Usage
MDB	34V DC	Power & *Data Comm. (BA↔Plug-in Board)

WEL-RL812





TMT 2*5 BACK VIEW

PIN 1- RED.....+12V
PIN 2- BLACK.....GND
PIN 3- PURPLE.....GND
PIN 6- YELLOW.....VCC
PIN 8- GREEN.....RX
PIN 10- BLUE.....TX

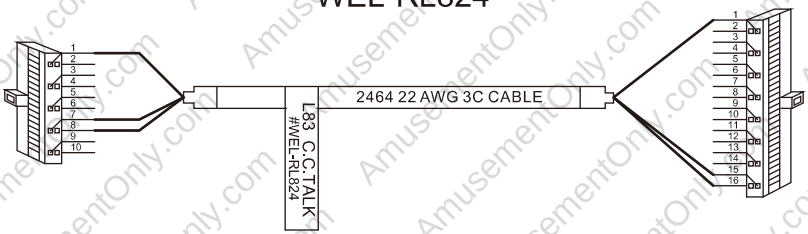
TMT 2*4 BACK VIEW

PIN 1- BLACK.....GND
PIN 6- YELLOW.....VCC
PIN 7- GREEN.....RX
PIN 8- BLUE.....TX

5-1 FIG.23

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

WEL-RL824



PIN 1- YELLOW.....DATA
PIN 7- RED.....+12VDC
PIN 8- BLACK.....GND

PIN 1- YELLOW.....DATA
PIN 15- RED.....+12VDC
PIN 16- BLACK.....GND

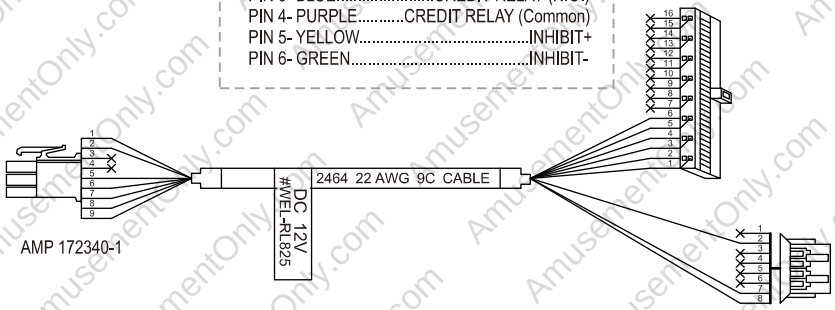
5-1 FIG.24

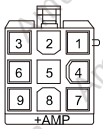
Interface	Used Voltage	Usage
Pulse(Out of service)	12V DC	Power & *Data Comm.

WEL-RL825

PIN 1- RED.....12VDC HOT (POWER)
PIN 2- BROWN.....Ground (Power)
PIN 3- BLUE.....CREDIT RELAY (N.O.)
PIN 4- PURPLE.....CREDIT RELAY (Common)
PIN 5- YELLOW.....INHIBIT+
PIN 6- GREEN.....INHIBIT-

Dual Row Crimp
Connector Housing





AMP 172340-1 BACK VIEW

PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....12VDC HOT (POWER)
PIN 6- ORANGE.....OUT OF SERVICE
PIN 7- BLUE.....CREDIT RELAY (N.O.)
PIN 8- PURPLE.....CREDIT RELAY (Common)
PIN 9- BROWN.....Ground (Power)

TMT 2*4 BACK VIEW

PIN 2- BLACK.....Reserved
PIN 7- WHITE.....Reserved
PIN 8- ORANGE.....OUT OF SERVICE

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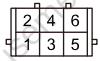
5-1 FIG.25

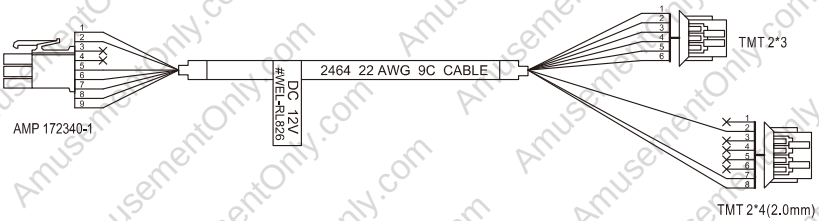
Interface	Used Voltage	Usage
Pulse(Out of service)	12V DC	Power & *Data Comm.

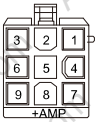
WEL-RL826



TMT 2*3 BACK VIEW

PIN 1- RED.....12VDC HOT (POWER)
PIN 2- BROWN.....Ground (Power)
PIN 3- YELLOW.....INHIBIT+
PIN 4- GREEN.....INHIBIT-
PIN 5- BLUE.....CREDIT RELAY (N.O.)
PIN 6- PURPLE.....CREDIT RELAY (Common)





AMP 172340-1
BACK VIEW

PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....12VDC HOT (POWER)
PIN 6- ORANGE.....OUT OF SERVICE
PIN 7- BLUE.....CREDIT RELAY (N.O.)
PIN 8- PURPLE.....CREDIT RELAY (Common)
PIN 9- BROWN.....Ground (Power)

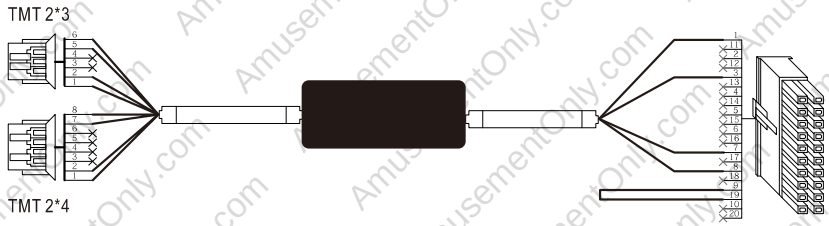
TMT 2*4 BACK VIEW

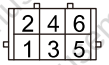
PIN 2- BLACK.....Reserved
PIN 7- WHITE.....Reserved
PIN 8- ORANGE.....OUT OF SERVICE

5-1 FIG.26

Interface	Used Voltage	Usage
RS232 A0	24V DC	Power & *Data Comm.
V2.2	24V DC	Power & *Data Comm.

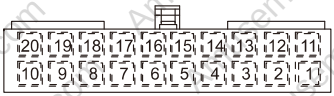
3BA-RAA318-NX-0X





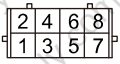
TMT 2*3 BACK VIEW

PIN 1- RED.....+12V
PIN 2- BLACK.....GND
PIN 5- GREEN.....Reserved
PIN 6- WHITE.....Reserved



BACK VIEW

PIN 1- RED.....VIN
PIN 3- BLUE.....RXD
PIN 7- BROWN.....TXD
PIN 8- BLACK.....GND
PIN 9 & 19- YELLOW.....Short circuit



TMT 2*4 BACK VIEW

PIN 1- BLUE.....Reserved
PIN 2- PURPLE.....Reserved
PIN 7- BROWN.....RX11
PIN 8- YELLOW.....RX11

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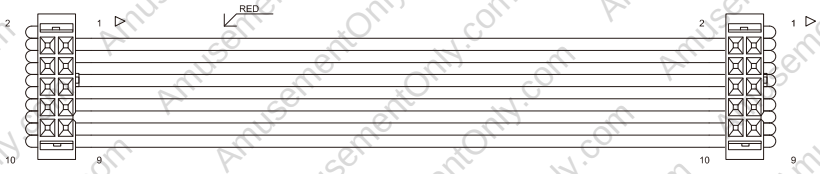
5-1 FIG. 27

Interface	Used Voltage	Usage
ccTalk	12V DC	Extension Wire for WEL-RL803

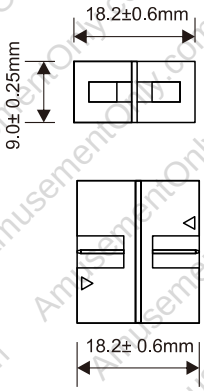
IDC-RA10400



IDC SOCKET 3131-10P(2.54mm)

IDC SOCKET 3131-10P(2.54mm)

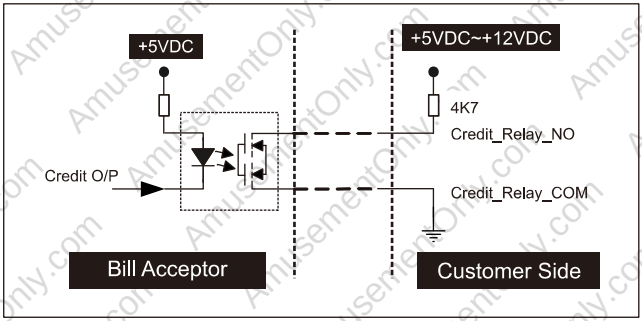
CNT-R7025

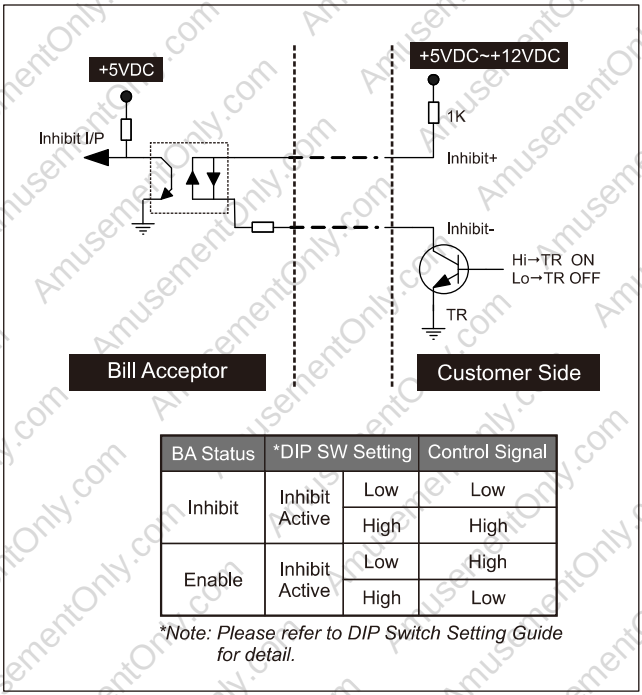


5-1-1. I/O Circuit

Pulse Interface.

5-1-1 FIG. 01





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

Note: Please refer to DIP Switch Setting Guide for detail.

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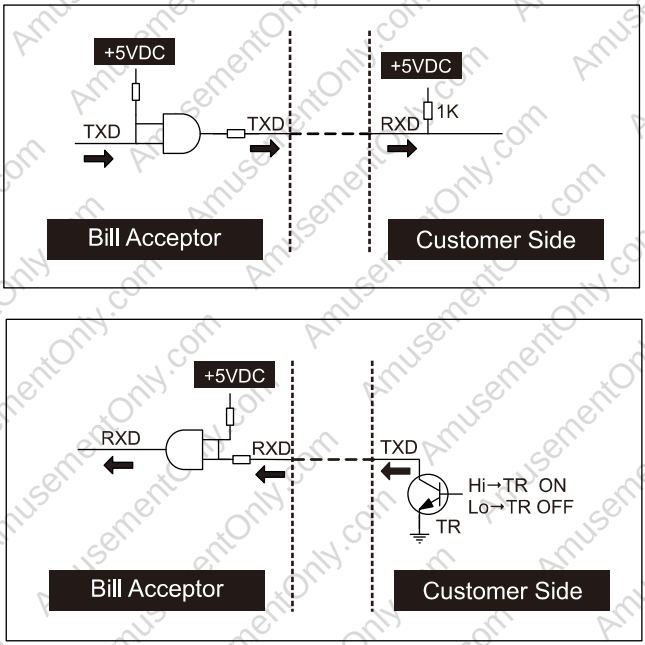
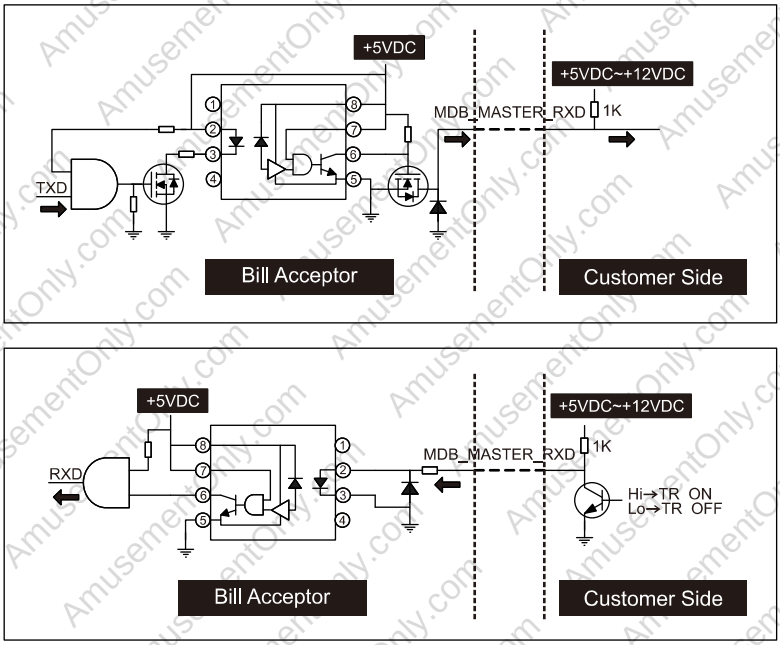
RS232, RS232 A0, RS232 A1, ccNet compatible Interface.

5-1-1 FIG. 02



MDB Interface.

5-1-1 FIG. 03



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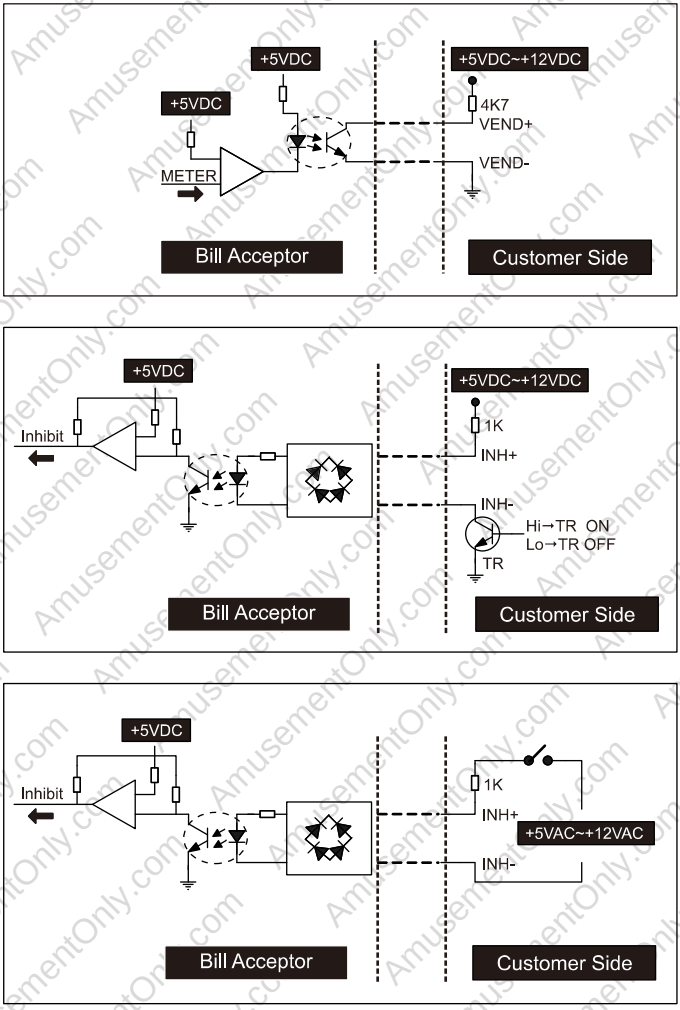
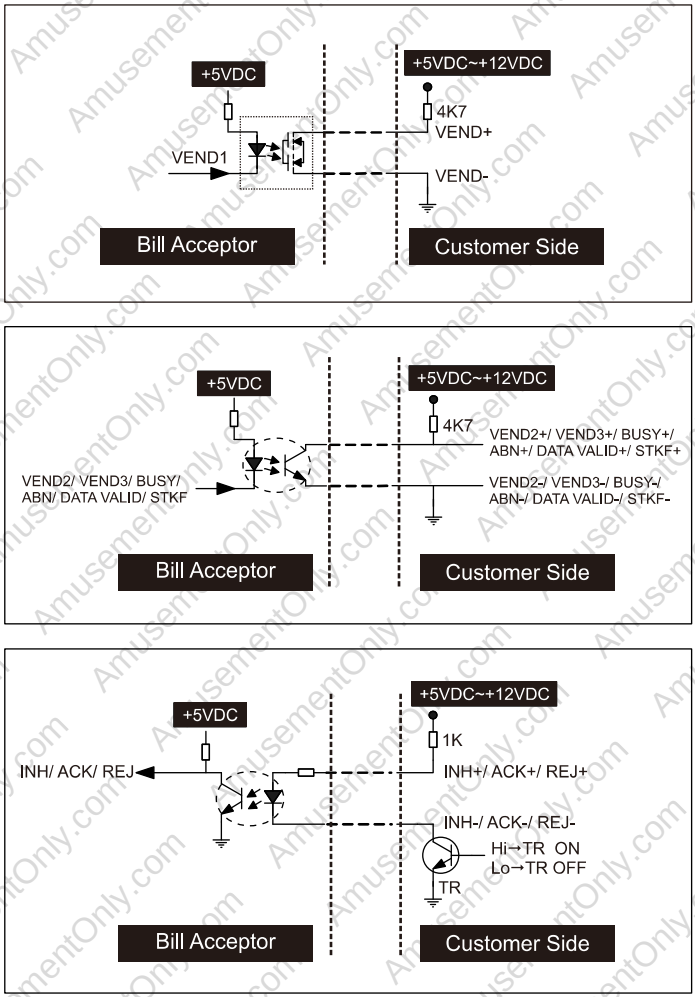
Parallel A1 Interface.

5-1-1 FIG. 04



Parallel Interface.

5-1-1 FIG. 05



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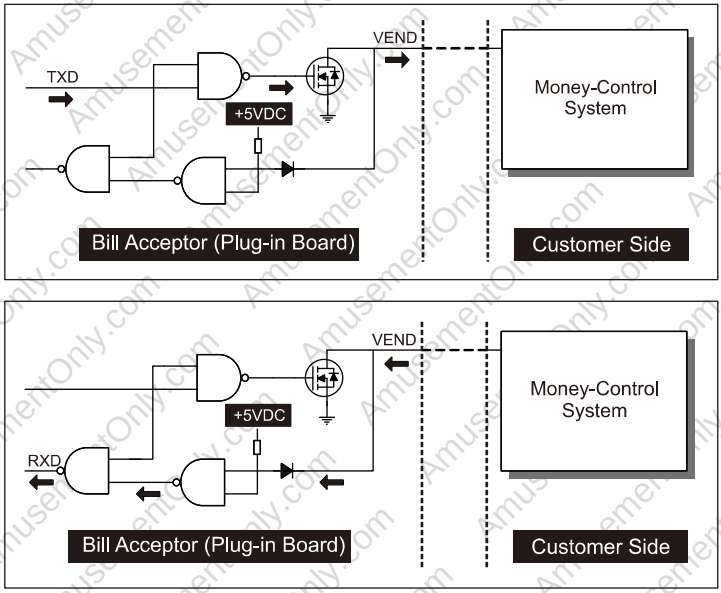
ccTalk Interface.

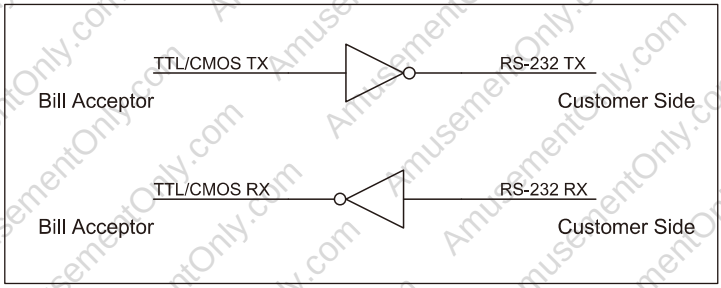
5-1-1 FIG. 06



L70T-P5, L77T-P5:

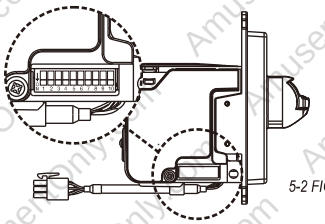
RS232 A0 & V2.2 Interface.

5-1-1 FIG. 07

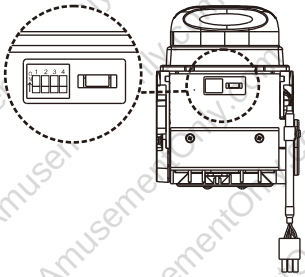


5-2. DIP Switch Setting

There is one serial DIP switches which are set on the side of L Series*(as FIG.01).* According to different currencies which are used by users, DIP switch settings could be varied to fit users' needs. Besides, there's another serial DIP switches at the bottom of L series for interface setting*(as FIG.02).*
Please refer to " L Series DIP Switch Setting Guide " in the package for more details.



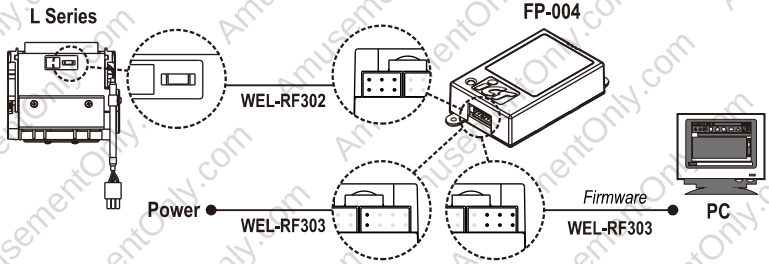
5-2 FIG. 01



5-2 FIG. 02

5-3. Software Download and Upgrade

To download and upgrade the software to L 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.



Turn on Bill Acceptor after connecting.

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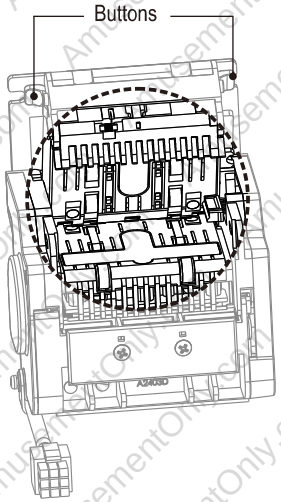
6. Maintenance

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. Press buttons to open LED assembly.
3. Use soft cloth or cotton swab to clean internal parts and bill path.



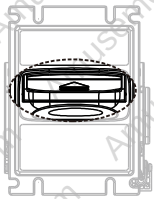
6 FIG. 01

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

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

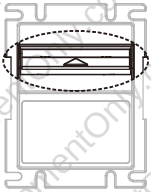
7. Troubleshooting

Bezel LED Errors



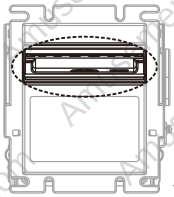
7 FIG. 01

L70#



7 FIG. 02

L77F



7 FIG. 03

L83

7 TABLE 01

LED Flashes		Status	Corrective Actions
Red	Green		
	1	White Card Calibration	Please calibrate with ICT white calibration card.
1		Bill jammed.	Open bill path unit 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		Fish sensor error	Inspect the foreign objects on sensor or bill path and clean.
4		A stringing attempt has detected.	Inspect the foreign objects on sensor or bill path and clean.
5		Bill box has been removed. (L83 with bill box only)	Replace the bill box.
6		Stacker error or stacker full. (for modules with bill box only).	Empty the bill box.
7		Motor error.	Inspect the 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.

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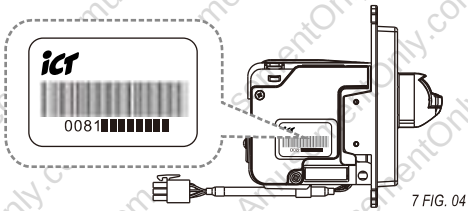
ccTalk Information

- Manufacturer ID: ICT
- Equipment Category ID: Bill Acceptor
- Product Code: L83/ L77F/ L70F/ L70T/ L77T
- Serial Number: According to last 8 digits of production serial number.

Default: 12345678

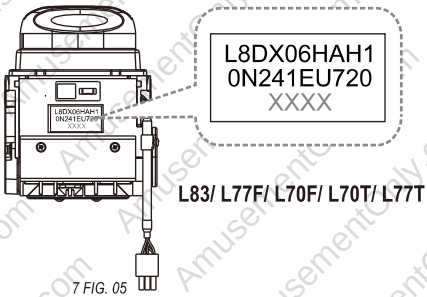


7 FIG. 04

L83/ L77F/ L70F/ L70T/ L77T

- Software Revision: According to the software revision number.

Ex. L8DX06HAH10N241EU720



L83/ L77F/ L70F/ L70T/ L77T

7 FIG. 05

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

Please contact ICT for more information.

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