www.ictgroup.com.tw

Bill Acceptor

XBA

Quick Start Guide

International Currency Technologies Corp.

1. Before Starting

Dear Valued Customer, thank you for purchasing the XBA Bill Acceptor. The XBA comes equipped with innovative wide-angle banknote insertion technology to offer superior acceptance rate of 98% or higher. With outstanding design, the XBA has the ability to provide a very high degree of resistance to strong ambient light as well as advanced optical and mechanical anti-fishing structure for better investment protection. The built-in USB port allows for convenient firmware upgrades via an USB flash drive.

Before installation, please check that the package contents of the XBA bill acceptor are as listed below:

- XBA Bill Acceptor
- Power and Data Communication cable
- Bill insertion bezel sticker
- DIP switch setting guide
- Quick Start Guide
- C25760-R XBA Metal Plate(Option)

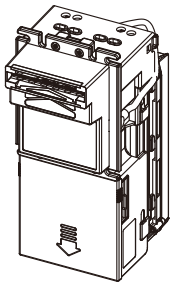
Should you have further questions,
XBA Bill Acceptor Installation & Service Manual can be downloaded at:
www.ictgroup.com.tw

Select “Support” from menu, then click “Manual Download”.

2. Start Installation

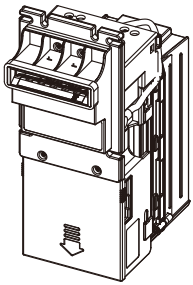
Step 1. Confirm the bezel type

There are three types of bezels based on the vending machine requirements. Be sure to choose the bezel you need before ordering/ installation as each bill acceptor comes with only ONE bezel.



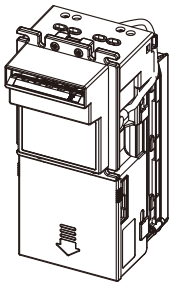
2 FIG.01

Standard plastic Bezel



2 FIG.02

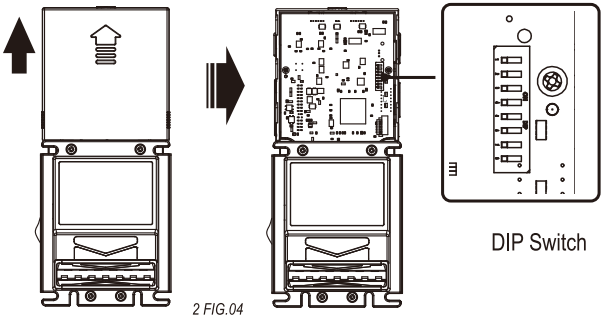
TOB-Bezel



2 FIG.03

Standard Metal Bezel

Step 2. Select interface



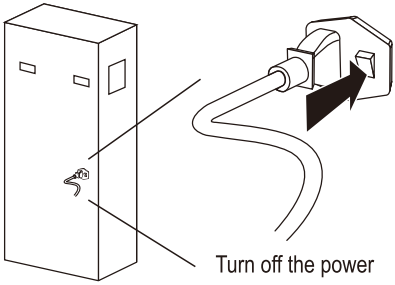
2 FIG.04

DIP Switch

Step 3. Prepare the connection cable

We provide the cables for MDB, RS232(ICT Protocol), Pulse, ccNet, RS232 A0, JPSTDand ccTalk interfaces. Each bill acceptor comes with ONE cable only. Please select the one you need to connect. (refer to page 10, 2-1.Harness Application)

Step 4. Power off the vending machine.

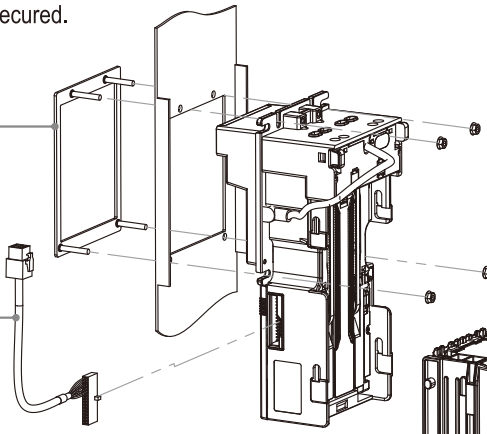


2 FIG.05

Step 5. Open the door and install the XBA on the vending machine

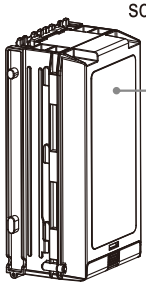
< Standard Bezel or Standard Metal Bezel >

Step 5-1.
Install the C25760-R XBA Metal plate on the vending machine and ensure it is secured.

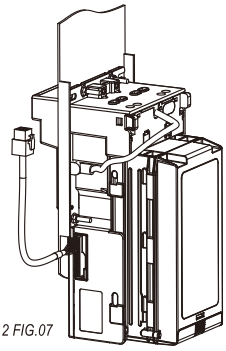


Step 5-2.
Hook up the cable to the XBA through the 30-pin connector.

Step 5-3.
Remove the cashbox, install the XBA on the mounting frame and then fasten the four screws.



2 .FIG.06



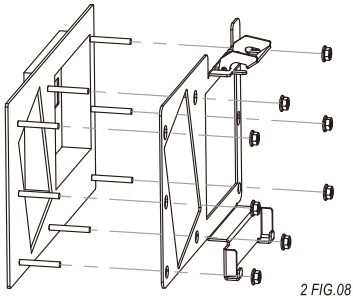
2 FIG.07

Step 5-4.
Install the cashbox and connect the other end of the cable to VMC to complete the installation.

Note:
Please hook up the MOLEX 5557-6R connector of WEL-RM006 with the ICT coin changer cable if you choose to connect the XBA through it.

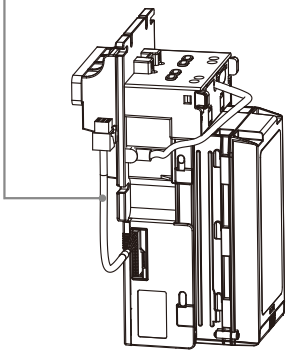
< TOB-Bezel >

Step 5-1.
Install the mounting frame on the vending machine and ensure it is secured.



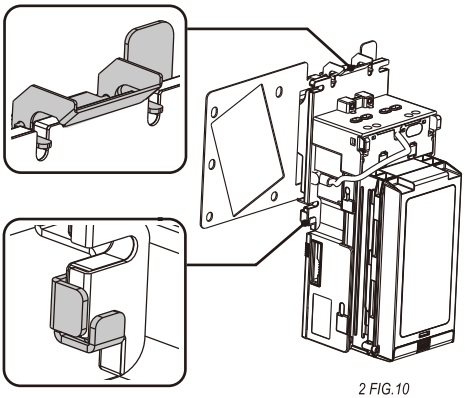
2 FIG.08

Step 5-2.
Hook up the cable with the XBA through the 30-pin connector.



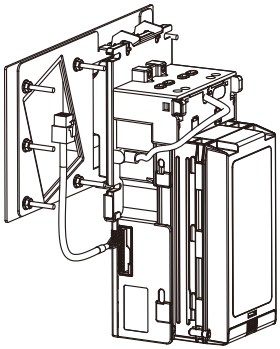
2 FIG.09

Step 5-3.
Buckle the XBA to the mounting frame.



2 FIG.10

Step 5-4.
Connect the other end of the cable to VMC to complete the installation.



2 FIG.11

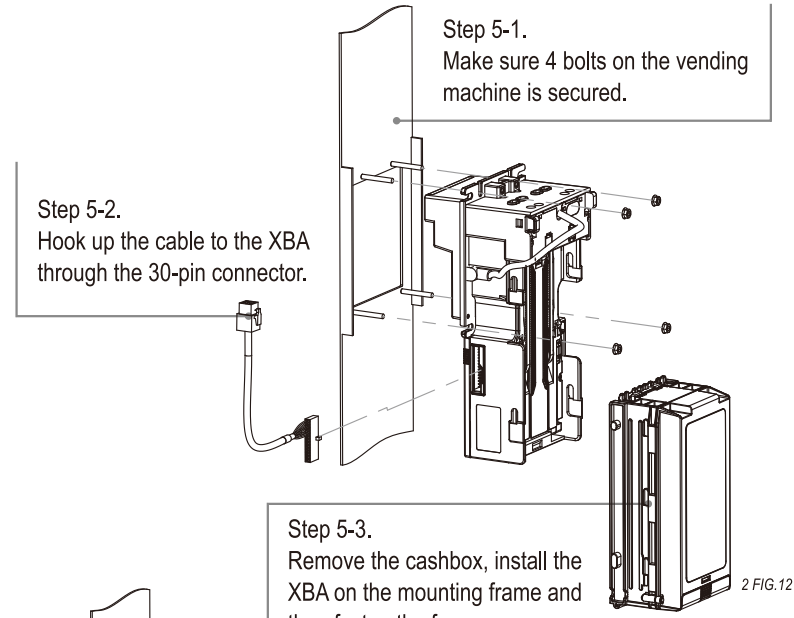
Note:
Please hook up the MOLEX 5557-6R connector of WEL-RM006 with the ICT coin changer cable if you choose to connect the XBA through it.

<Standard Metal Bezel>

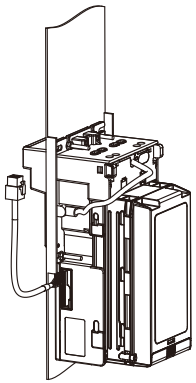
Step 5-1.
Make sure 4 bolts on the vending machine is secured.

Step 5-2.
Hook up the cable to the XBA through the 30-pin connector.

Step 5-3.
Remove the cashbox, install the XBA on the mounting frame and then fasten the four screws.



2 FIG.12

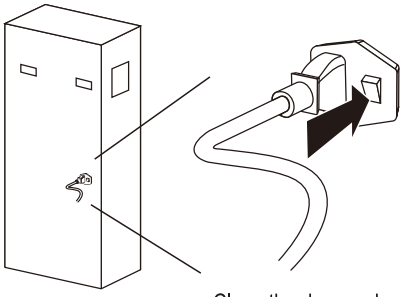


2 FIG.13

Step 5-4.
Install the cashbox and connect the other end of the cable to VMC to complete the installation.

Note:
Please hook up the MOLEX 5557-6R connector of WEL-RM006 with the ICT coin changer cable if you choose to connect the XBA through it.

Step 6. Power on the vending machine.



2 FIG.14 Close the door and power on

Step 7. Check the bezel LED

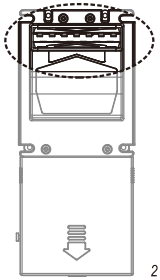
Multi-Color means the bill acceptor is functioning normally ; if not please check the rear LED and refer to the chart below.

Step 8. Transaction testing

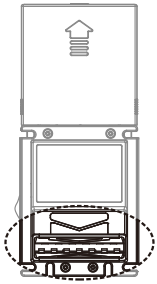
Insert bills of each accepted denomination, check if they are accepted and stored into the cashbox. If any problem occurs, please refer to the troubleshooting section in the service manual or contact local ICT distributor.

Note:
Please refer to the provided DIP switch setting guide to configure more options if necessary.

Step 8-1. Check Bezel LED Error



2 FIG.15



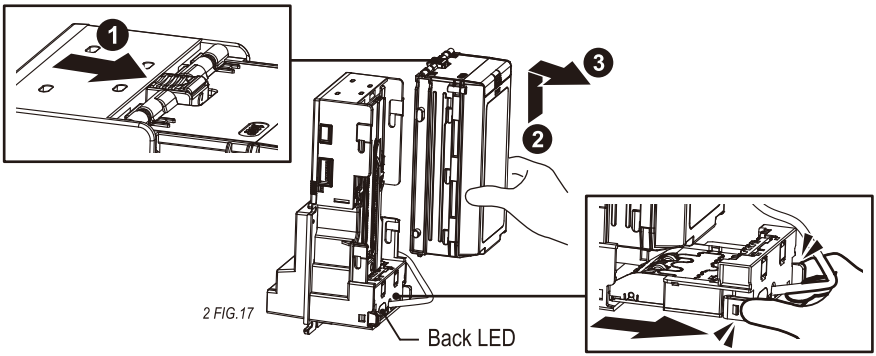
2 FIG.16

2 TABLE.01

LED Flashes		Status	Corrective Actions
RED	**GREEN**		
	1	White Card Calibration	Please calibrate with ICT white calibration card.
1		Bill jammed.	Remove the bill box by sliding the top button and the bill path*(as 2 FIG.17)*, 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	**1**	IR 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.
4		Anti-string sensor error or a stringing attempt has detected.	Inspect the foreign objects on sensor or bill path and clean.
5		Bill box has been removed.	Replace the bill box.
6		Stacker error or stacker full.	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 it recurs, please contact ICT for technical support.

Step 8-2. Check Back LED Error



2 FIG.17

2 TABLE.02

LED Flashes **RED**	Status	Corrective Actions
1	White Card Calibration	Please calibrate with ICT white calibration card.
1	Bill jammed.	Remove the bill box by sliding the top button and the bill path *(as 2 FIG.17)*, 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+1	IR 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.
4	Anti-string sensor error or a stringing attempt has detected.	Inspect the foreign objects on sensor or bill path and clean.
5	Bill box has been removed.	Replace the bill box.
6	Stacker error or stacker full.	Empty the bill box.
7	Motor error.	Inspect the foreign objects on bill path and clean.

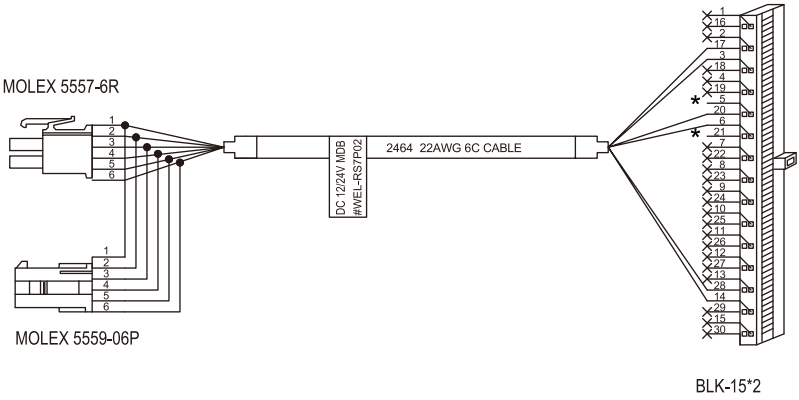
If the error can not be solved after corrective actions or it recurs, please contact ICT for technical support.

2-1. Harness Application

2-1 FIG.01

Interface	Used Voltage	Usage
MDB	12/24V DC	Power & *Data Comm.

WEL-RS7P02



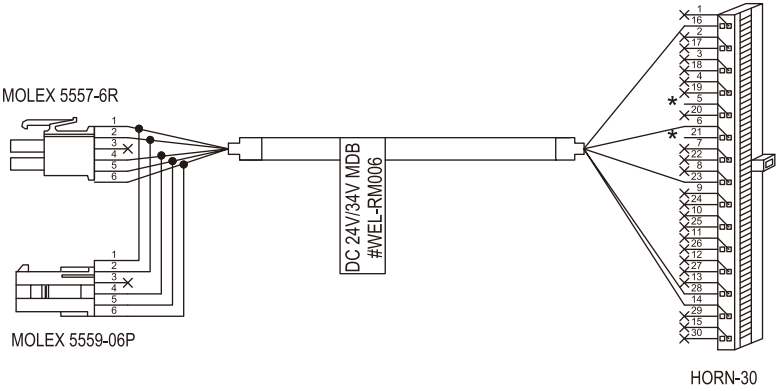
PIN 1- BLUE.....DC+12/24VDC INPUT
PIN 2- YELLOW.....Ground
PIN 3- PURPLE.....MDB_WAKE_UP_EN
PIN 4- ORANGE.....MDB_MASTER_RXD
PIN 5- RED.....MDB_MASTER_TXD
PIN 6- GREEN.....MDB Ground

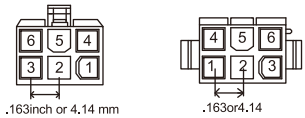
PIN 3- BLUE.....DC+12/24V INPUT
PIN 6- ORANGE.....MDB_MASTER_RXD
PIN 14- RED.....MDB_MASTER_TXD
PIN 17- PURPLE.....MDB_WAKE_UP_EN
PIN 20- YELLOW.....Ground
PIN 28- GREEN.....MDB Ground

2-1 FIG.02

Interface	Used Voltage	Usage
MDB	24V/34V DC	Power & Data Communication
	24V AC	

WEL-RM006





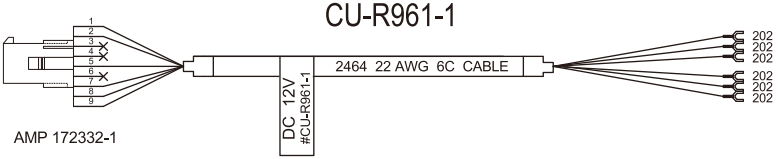
PIN 1- BLUE.....24VAC/24VDC/34VDC
PIN 2- YELLOW.....POWER RETURN
PIN 3- N/C
PIN 4- ORANGE.....MDB_MASTER_RXD
PIN 5- RED.....MDB_MASTER_TXD
PIN 6- GREEN.....MDB GROUND

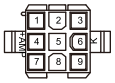
PIN 6- ORANGE.....MDB_MASTER_RXD
PIN 14- RED.....MDB_MASTER_TXD
PIN 16- YELLOW.....POWER RETURN
PIN 23- BLUE.....24VAC/24VDC/34VDC
PIN 28- GREEN.....MDB GROUND

2-1 FIG.03

Interface	Used Voltage	Usage
Pulse	12V DC	Extension Wire for WEL-RV701
ICT Protocol	12V DC	Extension Wire for WEL-RXBA18
ccNet		
RS232 A0		

CU-R961-1



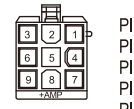


PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....+12VDC INPUT
PIN 7- BLUE.....CREOIT-RELAY(N.O.)
PIN 8- PURPLE.....CREDIT-RELAY(COM)
PIN 9- ORANGE.....GND

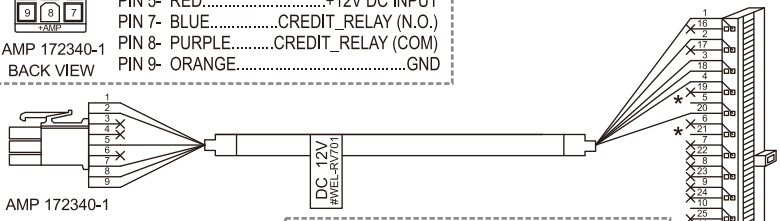
2-1 FIG.04

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

WEL-RV701



PIN 1- YELLOW.....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....+12V DC INPUT
PIN 7- BLUE.....CREDIT_RELAY (N.O.)
PIN 8- PURPLE.....CREDIT_RELAY (COM)
PIN 9- ORANGE.....GND

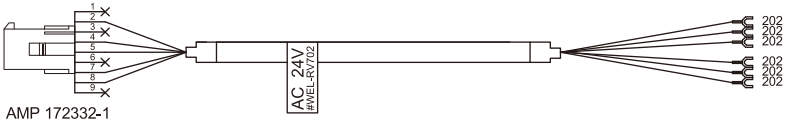


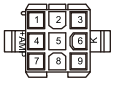
PIN 1- PURPLE.....CREDIT_RELAY (COM)
PIN 2- BLUE.....CREDIT_RELAY (N.O.)
PIN 3- RED.....+12V DC INPUT
PIN 4- YELLOW.....INHIBIT+
PIN 18- GREEN.....INHIBIT-
PIN 20- ORANGE .....GND

2-1 FIG.05

Interface	Used Voltage	Usage
Pulse	24V AC	Extension Wire for WEL-RV703

WEL-RV702





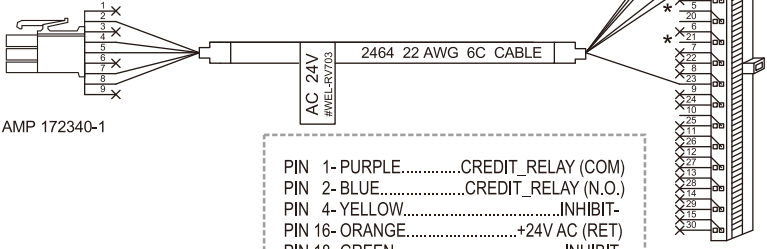
PIN 2- YELLOW.....INHIBIT+
PIN 4- BLUE.....CREDIT_RELAY (N.O.)
PIN 5- PURPLE.....CREDIT_RELAY (COM)
PIN 5- GREEN.....INHIBIT-
PIN 7- ORANGE.....+24V AC (RET)
PIN 8- RED.....+24V AC

2-1 FIG.06

Interface	Used Voltage	Usage
Pulse	24V AC	Power & *Data Comm.

WEL-RV703

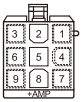
PIN 2- YELLOW.....INHIBIT+
PIN 4- BLUE.....CREDIT_RELAY (N.O.)
PIN 5- PURPLE.....CREDIT_RELAY (COM)
PIN 5- GREEN.....INHIBIT-
PIN 7- ORANGE.....+24V AC (RET)
PIN 8- RED.....+24V AC



PIN 1- PURPLE.....CREDIT_RELAY (COM)
PIN 2- BLUE.....CREDIT_RELAY (N.O.)
PIN 4- YELLOW.....INHIBIT-
PIN 16- ORANGE.....+24V AC (RET)
PIN 18- GREEN.....INHIBIT-
PIN 23- RED.....+24V AC

2-1 FIG.07

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

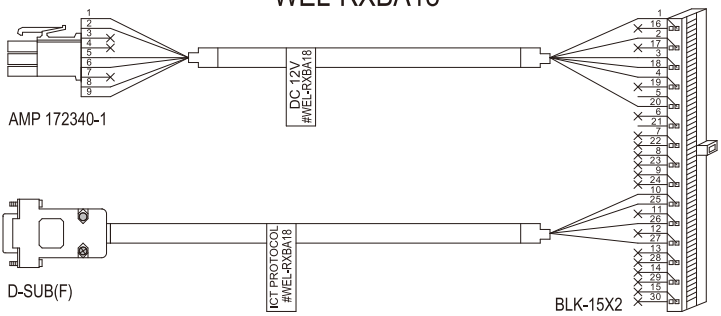


AMP 172340-1
BACK VIEW

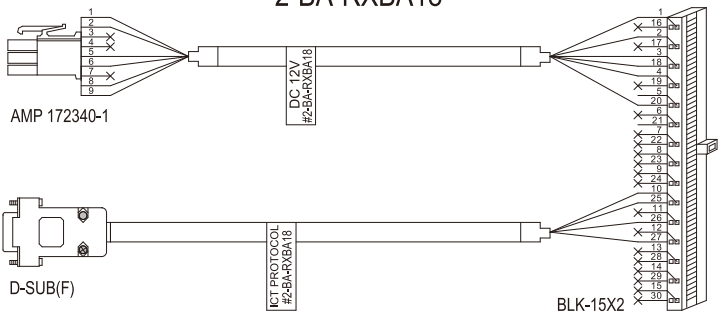
PIN 1- YELLOW .....INHIBIT+
PIN 2- GREEN.....INHIBIT-
PIN 5- RED.....+12V DC INPUT
PIN 7- BLUE.....CREDIT RELAY(N.O.)
PIN 8- PURPLE.....CREDIT RELAY(COM)
PIN 9- ORANGE.....GND

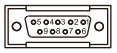
PIN 1- PURPLE .....CREDIT RELAY(COM)
PIN 2- BLUE.....CREDIT RELAY(N.O.)
PIN 3- RED.....+12V DC INPUT
PIN 4- YELLOW.....INHIBIT+
PIN 18- GREEN.....INHIBIT-
PIN 20- ORANGE.....GND

WEL-RXBA18



2-BA-RXBA18





D-SUB 9F TOP VIEW

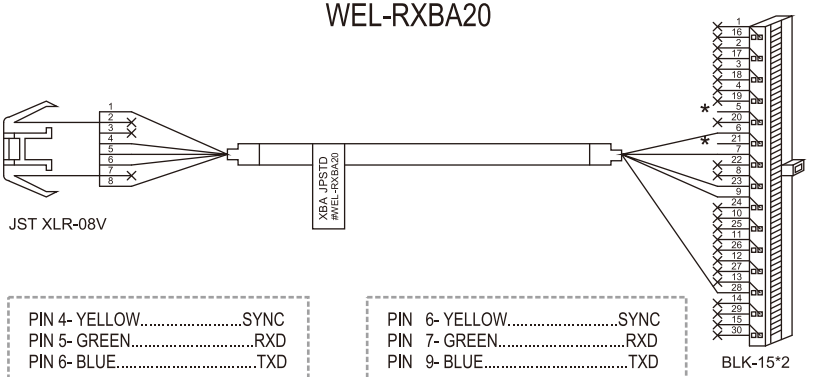
PIN 2- RXD
PIN 3- TXD
PIN 5- GND

PIN 10- YELLOW.....GND
PIN 25- RED.....VCC
PIN 26- WHITE.....TX11
PIN 27- BLACK.....RX11

2-1 FIG.08

Interface	Used Voltage	Usage
JPSTD	24V DC	Power & *Data Comm.

WEL-RXBA20



PIN 4- YELLOW.....SYNC
PIN 5- GREEN.....RXD
PIN 6- BLUE.....TXD

PIN 1- RED.....24VDC
PIN 8- ORANGE.....GROUND

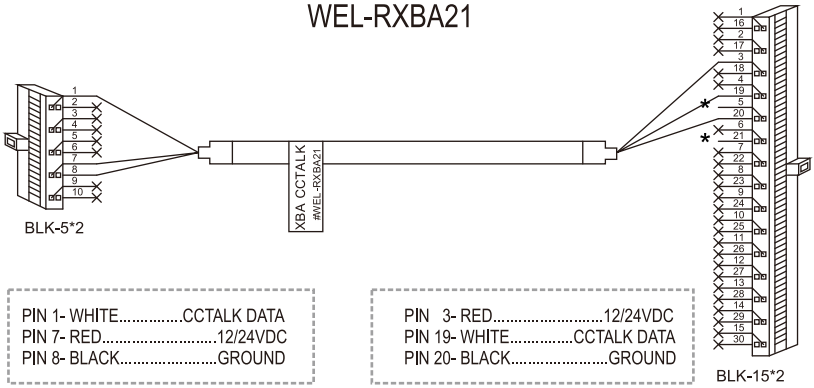
PIN 6- YELLOW.....SYNC
PIN 7- GREEN.....RXD
PIN 9- BLUE.....TXD

PIN 23- RED.....24VDC
PIN 28- ORANGE.....GROUND

2-1 FIG.09

Interface	Used Voltage	Usage
ccTalk	12/24V DC	Power & *Data Comm.

WEL-RXBA21



PIN 1- WHITE.....CCTALK DATA
PIN 7- RED.....12/24VDC
PIN 8- BLACK.....GROUND

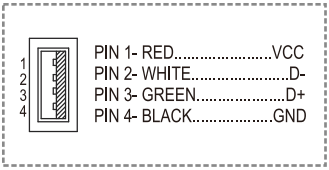
PIN 3- RED.....12/24VDC
PIN 19- WHITE.....CCTALK DATA
PIN 20- BLACK.....GROUND

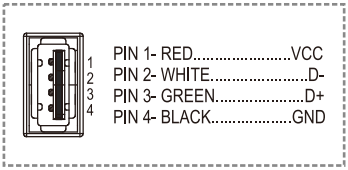
Note: XBA ccTalk supports 12/24V DC from CPU board number "399M30" (399M20 or before, support 12V DC only).

2-1 FIG.10

Interface	Used Voltage	Usage
USB Download	-	USB Extension Wire

WEL-RXBA31-2
(Optional)





V. 13.0 Part Number: H6486L-R