



Coin Acceptor

# SCA1

Series



Installation Guide

International Currency Technologies Corp.

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## **1. Introduction**

### **1-1. Overview**

SCA1 Model is designed as a reliable coin acceptor to work steadily with high security and high accepting speed, acceptance rate of 96% or greater.

By introducing the SCA product, we are dedicated to provide you the most convenient and comprehensive solutions.

### **1-2. Features**

- 16 channels available
- Anti-string mechanism to ensure operating security
- High acceptance rate 96% or greater.
- High accepting speed up to 3 coins per second.
- Installation options for standard- or long-bezel

## 2. Specification

### **General**

|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| Coin Parameters | Diameter : 17~32.5mm<br>Thickness: 1.3~3.3mm                                                       |
| Accepting Speed | <b>&lt;ccTalk/ MDB&gt;</b> Up to 2 coins/sec.<br><b>&lt;Pulse/ Parallel&gt;</b> Up to 3 coins/sec. |
| Acceptance Rate | 96% or greater                                                                                     |
| Interface       | ccTalk + Parallel + RS232<br>Pulse + Parallel + RS232<br>MDB + Pulse + RS232                       |

### **Electrical**

|                   |                                                                                                                                                                  |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power Source      | <b>&lt;ccTalk&gt;</b> DC 12V $\pm 10\%$ , DC 24V $\pm 10\%$<br><b>&lt;Pulse / Parallel / RS232&gt;</b> DC 12V $\pm 10\%$<br><b>&lt;MDB&gt;</b> DC 20V~DC 45V     |
| Power Consumption | Standby : $\leq 0.05A$<br>Operation: $\leq 0.18A$<br>Maximum: $\leq 0.5A$<br><b>&lt;For MDB&gt;</b> Standby : $\leq 0.05A$<br>Operation: 0.22A<br>Maximum: 0.52A |

Operation Environment

Operation Temperature: -10°C~55°C  
(Temperature Change: Max.0.2°C/min)  
Storage Temperature: -25°C~70°C  
Humidity: 30%~85%RH(No condensation)

Mark of Conformity

CE

### ***Mechanical***

Installation Level

Vertical, Max. Deviation:  $\pm 2^{\circ}$

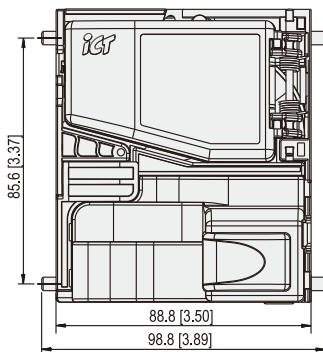
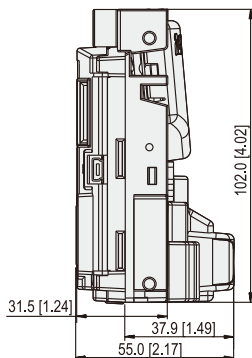
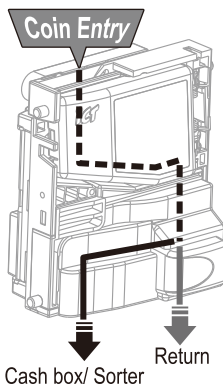
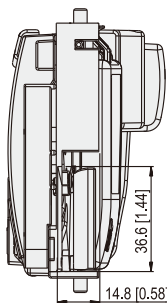
Weight

Approx. 0.25kg (Net Weight)

### 3. Dimension

#### Top Entry Type

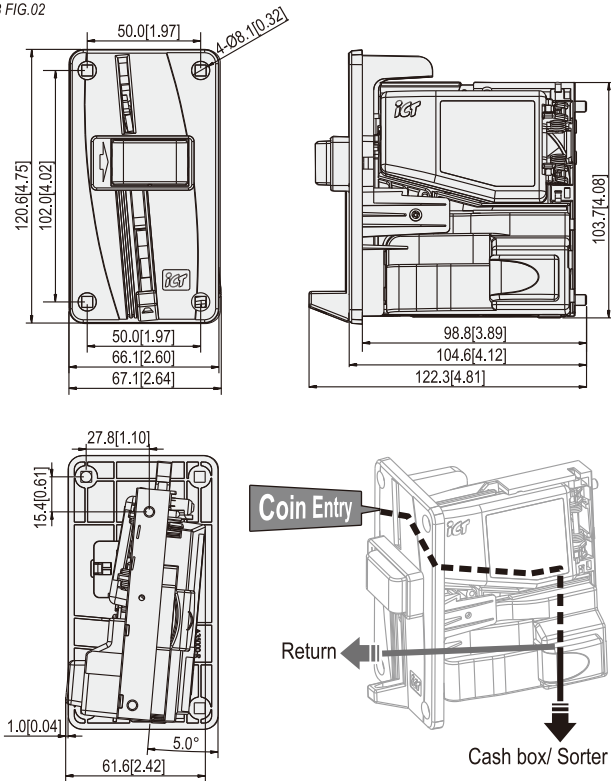
3 FIG.01



Unit : mm [inch]

## Front Entry Type- Standard bezel

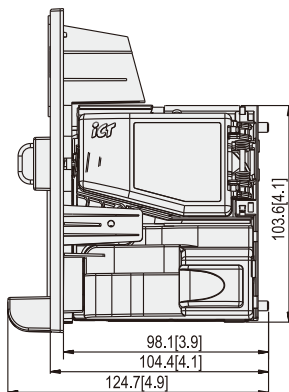
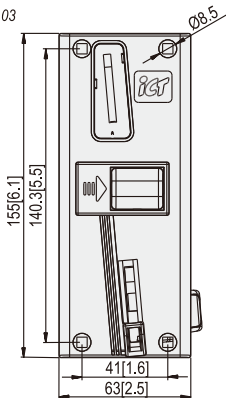
3 FIG.02



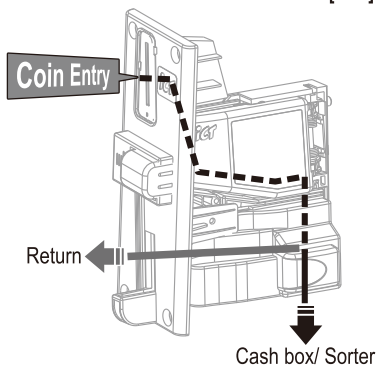
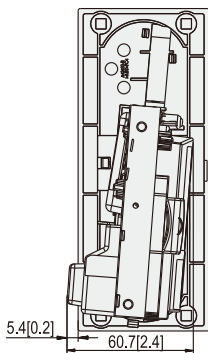
Unit : mm [inch]

## Front Entry Type- Long bezel

3 FIG.03



Unit : mm [inch]



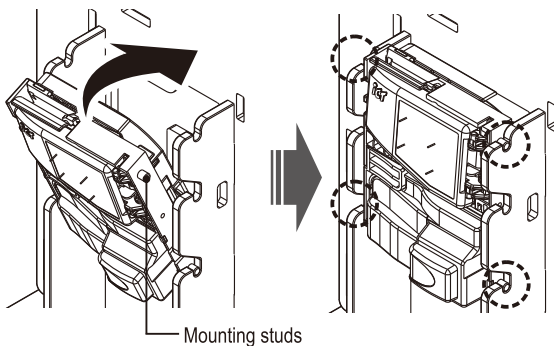
## 4. Installation

### 4-1. Device Mounting Instruction

***Attention!! Before installation, please turn off the main power supply of vending machine.***

#### Top Entry Type

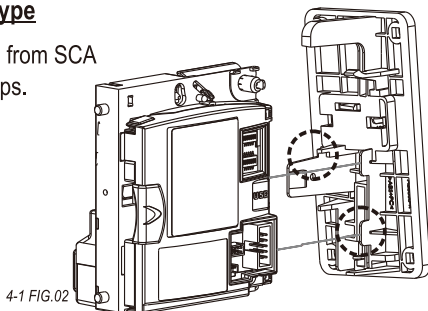
Mount or Hook SCA in the frame of vending machine through 4 mounting studs.



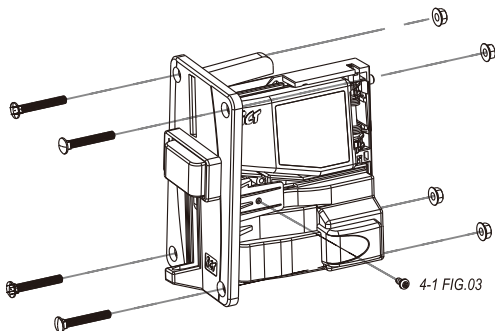
4-1 FIG.01

### Front Entry Type

Separate bezel from SCA  
by release 2 clips.

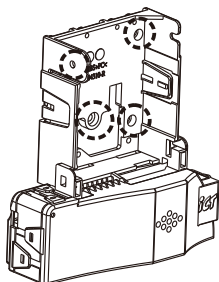


Fasten bezel on vending machine by 4 sets of screws.  
Install SCA back with bezel and fix with bezel clip by a screw.



### Top Entry Type with Sorter

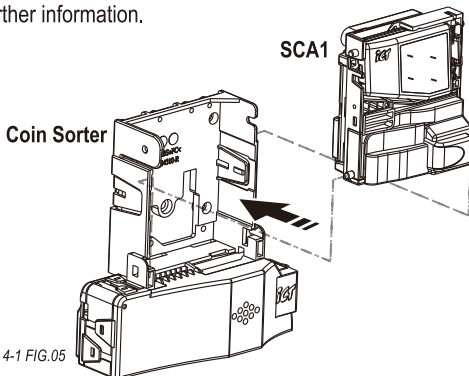
At first, install sorter unit in vending machine by means of screws.



4-1 FIG.04

To install SCA into sorter mounting frame, hang up bottom studs then push upper studs into upper holders.

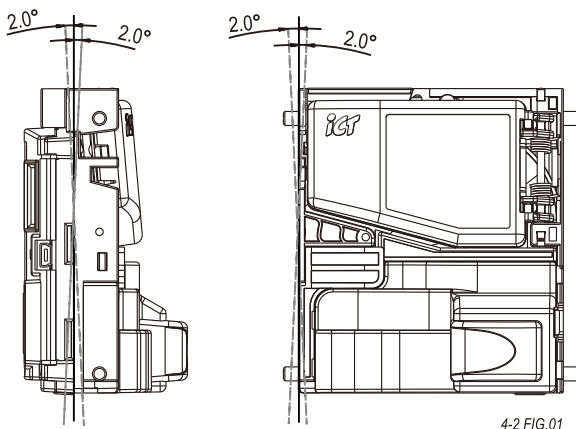
Please refer to user guide “Coin Sorter for SCA” for further information.



4-1 FIG.05

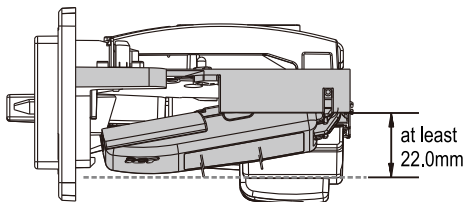
## 4-2. Installation Check List

Check that the device installation level should be limited to maximum deviation of  $\pm 2^\circ$ , this is important to SCA recognition performance.



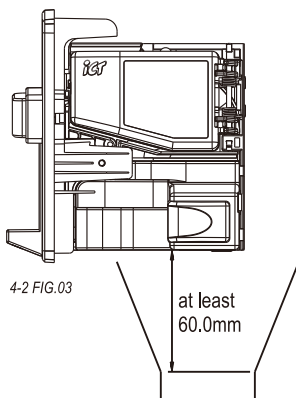
4-2 FIG.01

Check that there is a space of at least 22mm opening space for flight deck.



4-2 FIG.02

Check that there is a distance of at least 60mm between SCA and cash box.



4-2 FIG.03

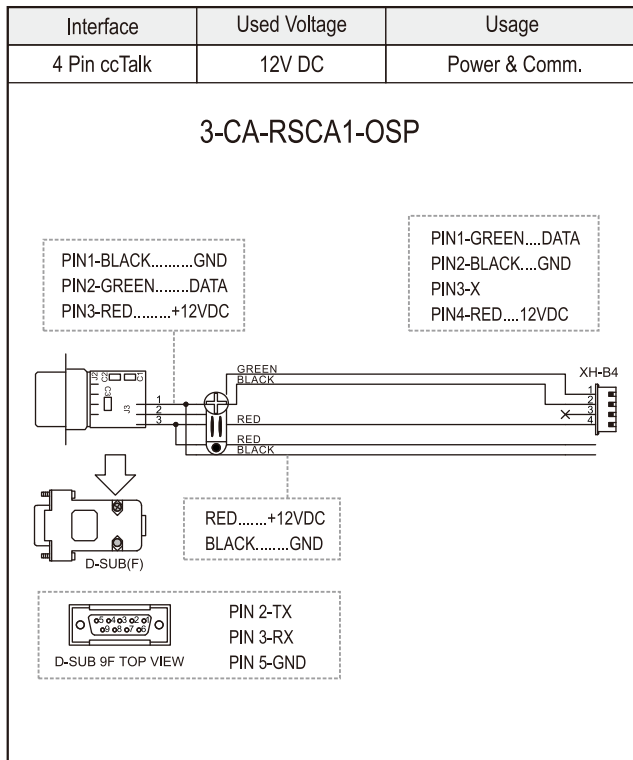
## 5. Interface & Harness

### 5-1. Harness Application

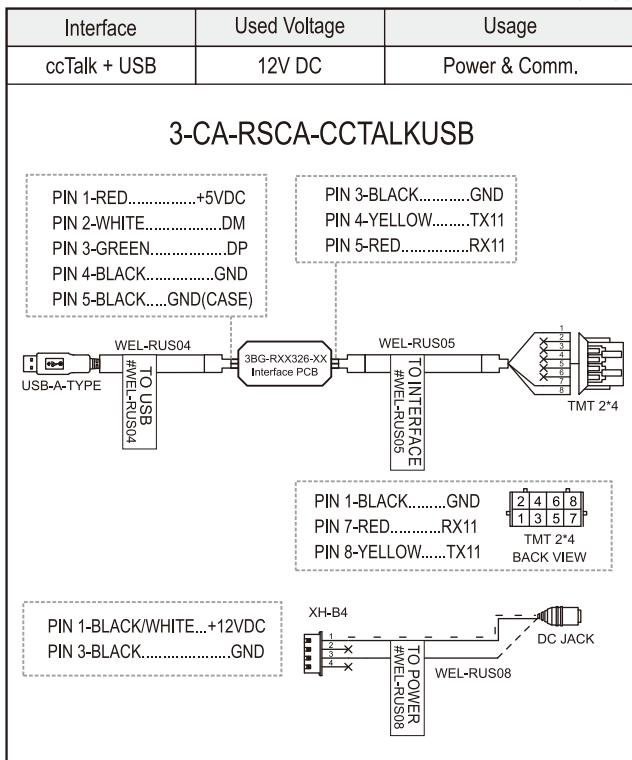
5-1 TABLE 01

| Interface                 | Used Voltage | Usage          | Harnesses            | Page |
|---------------------------|--------------|----------------|----------------------|------|
| 4 Pin ccTalk              | 12V DC       | Power & *Comm. | 3-CA-RSCA1-OSP       | 14   |
| ccTalk + USB              | 12V DC       | Power & *Comm. | 3-CA-RSCA-CCALKUSB   | 15   |
| 10 Pin ccTalk or Parallel | 12V DC       | Power & *Comm. | IDC-RA10400          | 16   |
| Pulse                     | 12V DC       | Power & *Comm. | WEL-RECA01           | 17   |
| Pulse                     | 12V DC       | Power & *Comm. | WEL-RECA03(Optional) | 18   |
| MDB                       | 20~45 V DC   | Power & *Comm. | WEL-RSCA11           | 19   |
| RS232                     | 12V DC       | Power          | WEL-RECA01           | 17   |
| RS232                     | 12V DC       | *Comm.         | WEL-R7U06-2          | 20   |

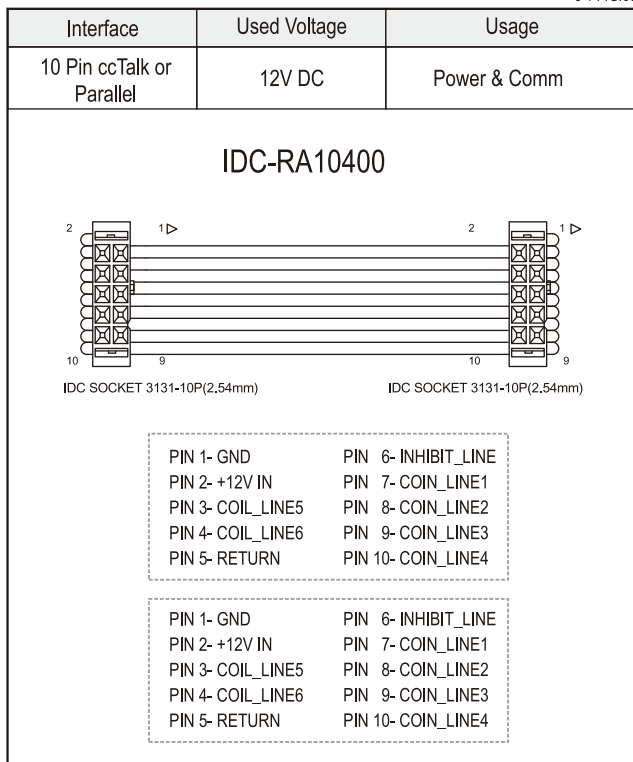
\*Comm. : Communication



5-1 FIG.02



5-1 FIG.03

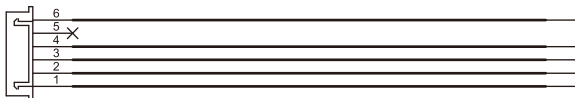


5-1 FIG.04

| Interface | Used Voltage | Usage         |
|-----------|--------------|---------------|
| Pulse     | 12V DC       | Power & Comm. |
| RS232     | 12V DC       | Power         |

## WEL-RECA01

XH-A6(2,5mm)

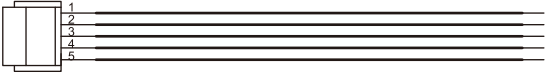


PIN 1- YELLOW.....INHIBIT  
 PIN 2- BLUE.....IMPULSE  
 PIN 3- PURPLE.....COUNTER  
 PIN 4- RED.....+12V  
 PIN 5- NC  
 PIN 6- BLACK.....GND

5-1 FIG.05

| Interface | Used Voltage | Usage         |
|-----------|--------------|---------------|
| Pulse     | 12V DC       | Power & Comm. |

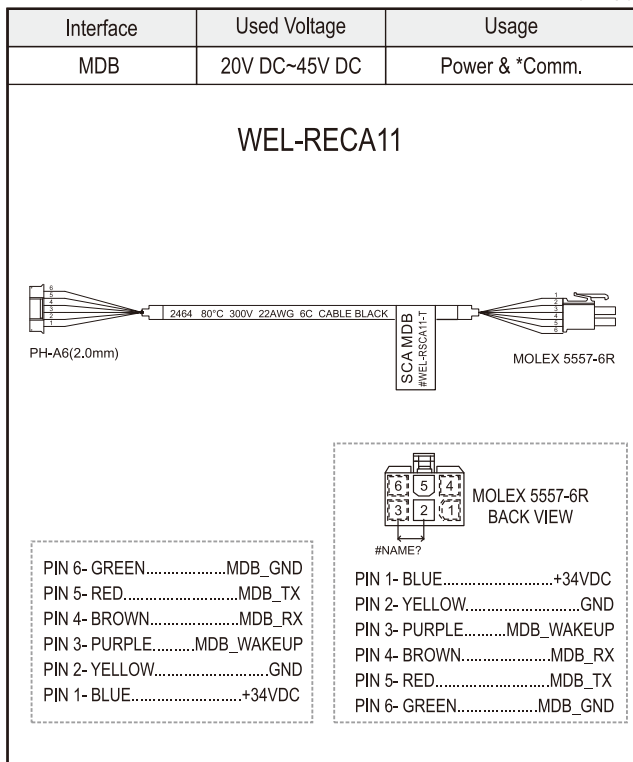
WEL-RECA03  
(Option)

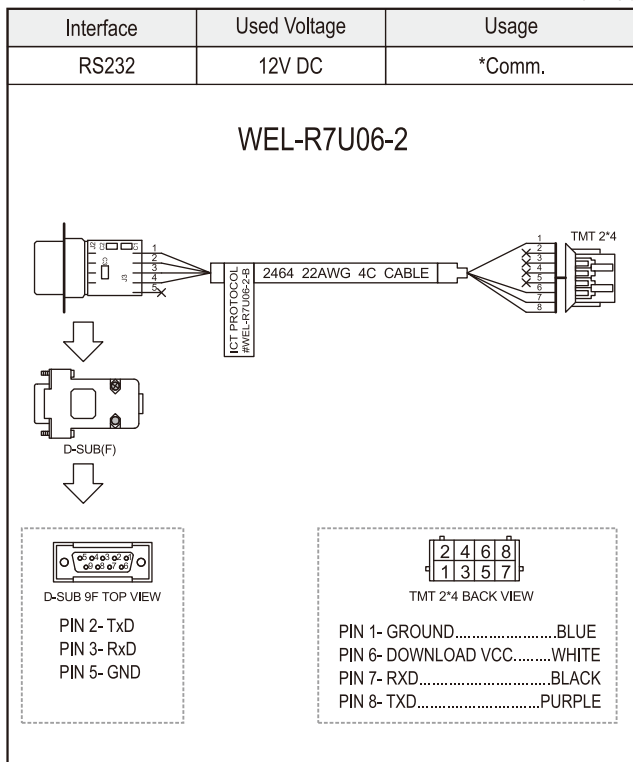


NH-5P(2.5mm)

|                    |         |
|--------------------|---------|
| PIN 1- GREEN.....  | INHIBIT |
| PIN 2- BLUE.....   | IMPULSE |
| PIN 3- ORANGE..... | GND     |
| PIN 4- YELLOW..... | COUNTER |
| PIN 5- RED.....    | +12V    |

5-1 FIG.06

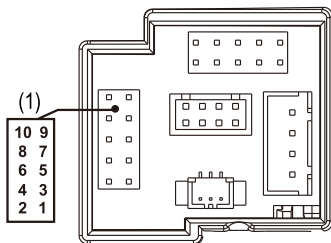




## 5-2. Connector & PIN Assignment

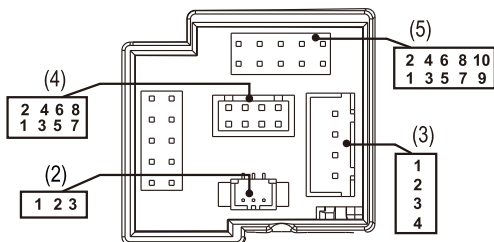
### ccTalk + Parallel + RS232

Hardware Version: 352E, 352Q, 352T, 352U, 421B



5-2 TABLE 01

| No. | Pins   | PIN Assignment                   |
|-----|--------|----------------------------------|
| 1   | 10 Pin | <b>Power &amp; Parallel</b>      |
|     |        | PIN 1- GND                       |
|     |        | PIN 2- +12V IN                   |
|     |        | PIN 3- COIN_LINE5                |
|     |        | PIN 4- COIN_LINE6                |
|     |        | PIN 5- RETURN                    |
|     |        | PIN 6- INHIBIT_LINE              |
|     |        | PIN 7- COIN_LINE1                |
|     |        | PIN 8- COIN_LINE2                |
|     |        | PIN 9- COIN_LINE3                |
|     |        | PIN 10- COIN_LINE4               |
|     |        | <b>Power &amp; Special Pulse</b> |
|     |        | PIN 1- GND                       |
|     |        | PIN 2- +12V IN                   |
|     |        | PIN 3- SERV                      |
|     |        | PIN 4- SEL (CREDIT)              |
|     |        | PIN 5~10- N/A                    |
|     |        | <b>10 PIN Sorter</b>             |
|     |        | PIN 1- GND                       |
|     |        | PIN 2- +12V IN                   |
|     |        | PIN 3- COIN_LINE5                |
|     |        | PIN 4- COIN_LINE6                |
|     |        | PIN 5~10- N/A                    |

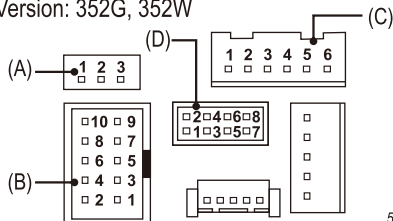


5-2 TABLE 02

| No. | Pins   | PIN Assignment                                                                                                                                             |  |
|-----|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 2   | 3 Pin  | <b>Sorter</b><br>PIN 1- SORTER_SOL1      PIN 3- SORTER<br>PIN 2- SORTER_SOL2                                                                               |  |
| 3   | 4 Pin  | <b>ccTalk</b><br>PIN 1- +12V      PIN 3- GND<br>PIN 2- N/A      PIN 4- DATA                                                                                |  |
| 4   | 8 Pin  | <b>Download (RS232)</b><br>PIN 1- GND      PIN 5- /RESET<br>PIN 2- TX22      PIN 6- +5V<br>PIN 3- RX22      PIN 7- RX11<br>PIN 4- PROGRAM      PIN 8- Tx11 |  |
| 5   | 10 Pin | <b>ccTalk</b><br>PIN 1- DATA      PIN 8- GND<br>PIN 2~6- N/A      PIN 9- N/A<br>PIN 7- +12V      PIN10- N/A                                                |  |

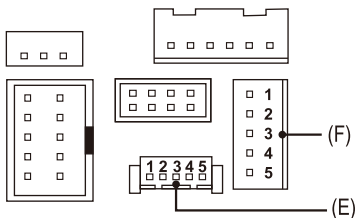
## Pulse + Parallel + RS232

Hardware Version: 352G, 352W



5-2 TABLE 03

| No. | Pins   | PIN Assignment                                                                                                                                                                                                                                                              |
|-----|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A   | 3 Pin  | <b>JUMP</b><br>Short PIN 1~2- Inhibit Normal High<br>Short PIN 2~3- Inhibit Normal Low                                                                                                                                                                                      |
| B   | 10 Pin | <b>Parallel</b><br>PIN 1- GND                      PIN 6- Inhibit Output<br>PIN 2- +12V                  PIN 7- Output Ch1<br>PIN 3- Output Ch5          PIN 8- Output Ch2<br>PIN 4- Output Ch6          PIN 9- Output Ch3<br>PIN 5- Pulse Output        PIN 10- Output Ch4 |
| C   | 6 Pin  | <b>Pulse</b><br>PIN 1- Inhibit                  PIN 4- +12V<br>PIN 2- Pulse (Credit)        PIN 5- +12V<br>PIN 3- Counter (Meter)      PIN 6- GND                                                                                                                           |
| D   | 8 Pin  | <b>RS232</b><br>PIN 1- GND                      PIN 6- +5V<br>PIN 2~4- N/A                  PIN 7- RX11<br>PIN 5- /RESET                  PIN 8- Tx11                                                                                                                       |



5-2 TABLE 04

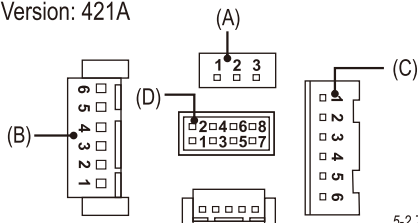
| No. | Pins  | PIN Assignment                                                                                                 |
|-----|-------|----------------------------------------------------------------------------------------------------------------|
| E   | 5 Pin | <b>Download</b>                                                                                                |
| F   | 5 Pin | <b>Pulse</b><br>PIN 1- Inhibit<br>PIN 2- Pulse (Credit)<br>PIN 3- GND<br>PIN 4- Counter (Meter)<br>PIN 5- +12V |



Please contact ICT FAE for more details.

**MDB + Pulse + RS232**

Hardware Version: 421A



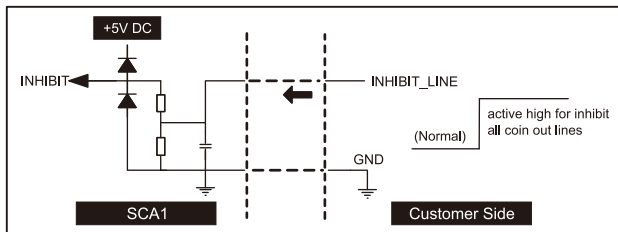
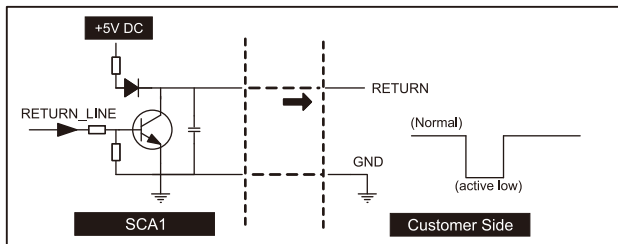
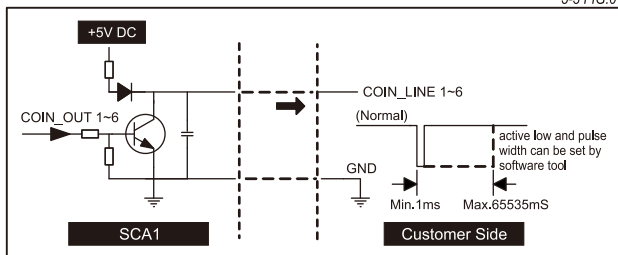
5-2 TABLE 05

| No. | Pins  | PIN Assignment                                                                         |                                                           |
|-----|-------|----------------------------------------------------------------------------------------|-----------------------------------------------------------|
| A   | 3 Pin | <b>JUMP</b><br>Short PIN 1~2- Inhibit Normal High<br>Short PIN 2~3- Inhibit Normal Low |                                                           |
| B   | 6 Pin | <b>MDB</b><br>PIN 1- GND<br>PIN 2- MDB RXD<br>PIN 3- MDB TXD                           | PIN 4- X<br>PIN 5- VIN-COM<br>PIN 6- +45V                 |
| C   | 6 Pin | <b>Pulse</b><br>PIN 1- Inhibit<br>PIN 2- IMPULSE(CREDIT)<br>PIN 3- X                   | PIN 4- +12V<br>PIN 5- +12V<br>PIN 6- GND                  |
| D   | 8 Pin | <b>Download (RS232)</b><br>PIN 1- GND<br>PIN 2- TX22<br>PIN 3- RX22<br>PIN 4- PROGRAM  | PIN 5- /RESET<br>PIN 6- +5V<br>PIN 7- RX11<br>PIN 8- Tx11 |

## 5-3. I/O Circuits

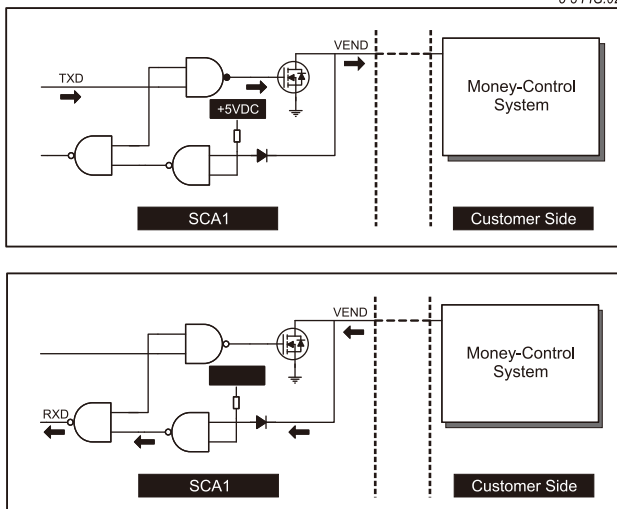
## Parallel Interface

5-3 FIG.01



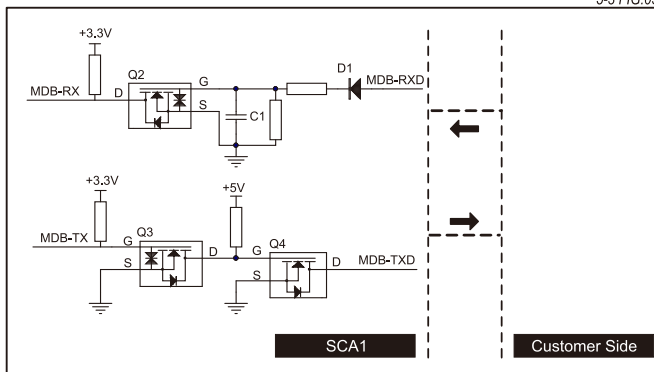
## ccTalk Interface

5-3 FIG.02



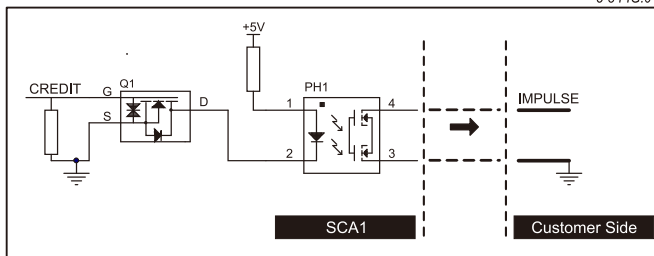
## MDB Interface

5-3 FIG.03



## Pulse Interface

5-3 FIG.04



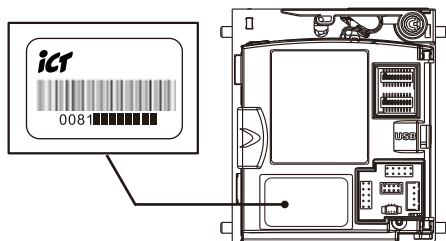
## 5-4. ccTalk Information

Manufacturer ID: ICT

Equipment Category ID: Coin Acceptor

Product Code: SCA1

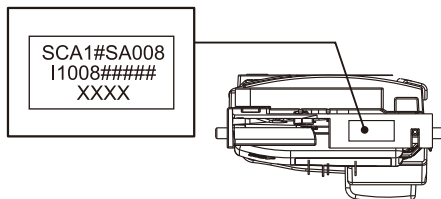
Serial Number: According to last 8 digits of production serial number (Default: 12345678).



5-4 FIG.01

Software Revision: According to the software revision number.

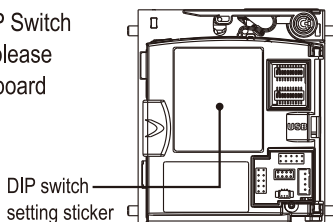
For example: SCA1#SA00811008#####



5-4 FIG.02

## 6. DIP Switch Setting

There are several kinds of DIP Switch settings among SCA series, please refer to the sticker on control board cover for detail information.



6 FIG.01

### ccTalk + Parallel + RS232

Hardware Version: 352E, 352Q, 352T, 352U

6 TABLE 01

| Switch Block 1 |                |        |               |
|----------------|----------------|--------|---------------|
| Switch         | Function       | OFF    | ON            |
| 1              | Coin Channel 1 | Free   | Inhibited     |
| 2              | Coin Channel 2 | Free   | Inhibited     |
| 3              | Coin Channel 3 | Free   | Inhibited     |
| 4              | Coin Channel 4 | Free   | Inhibited     |
| 5              | Coin Channel 5 | Free   | Inhibited     |
| 6              | Coin Channel 6 | Free   | Inhibited     |
| 7              | Coin Channel 7 | Free   | Inhibited     |
| 8              | Coin Channel 8 | Free   | Inhibited     |
| 9              | Interface      | cctalk | Parallel      |
|                |                |        | Special Pulse |
| 10             | Bank Selection | Bank 0 | Bank 1        |

Note: Switch 10 varies.

6 TABLE 02

| Switch Block 2 |                 |      |           |
|----------------|-----------------|------|-----------|
| Switch         | Function        | ON   | OFF       |
| 1              | Coin Channel 9  | Free | Inhibited |
| 2              | Coin Channel 10 | Free | Inhibited |
| 3              | Coin Channel 11 | Free | Inhibited |
| 4              | Coin Channel 12 | Free | Inhibited |
| 5              | Coin Channel 13 | Free | Inhibited |
| 6              | Coin Channel 14 | Free | Inhibited |
| 7              | Coin Channel 15 | Free | Inhibited |
| 8              | Coin Channel 16 | Free | Inhibited |

6 TABLE 03

| Setup for ccTalk Sorter |          |        |        |             |
|-------------------------|----------|--------|--------|-------------|
| Switch                  | ICT Mode | Mode 1 | Mode 2 | User Define |
| 9                       | OFF      | ON     | OFF    | ON          |
| 10                      | OFF      | OFF    | ON     | ON          |

## Pulse + Parallel + RS232

Hardware Version: 352G

6 TABLE 04

| Switch Block |                                                                                                                                                |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Switch       | Function                                                                                                                                       |
| 1            | 8 selections of Pulse ratio from channel 1 to channel 8.<br>Please refer to Pulse Table on cover sticker for exact<br>Pulse ratio information. |
| 2            |                                                                                                                                                |
| 3            |                                                                                                                                                |

Note: (1) Switch 1 to 3 only work under study mode.

(2) To setup Euro coins, the following channels are recommended.

Channel 3, 50 cent, Channel 4, 1€, Channel 5, 2€

6 TABLE 05

| Switch Block |                  |                   |            |
|--------------|------------------|-------------------|------------|
| Switch       | Operation Mode   |                   | Study Mode |
|              | Pulse Speed 50ms | Pulse Speed 100ms |            |
| 4            | OFF              | ON                | ON         |
| 5            | OFF              | OFF               | ON         |

6 TABLE 06

| Switch Block |            |                  |                   |
|--------------|------------|------------------|-------------------|
| Switch       | Function   | OFF              | ON                |
| 6            | Pulse type | Pulse Normal Low | Pulse Normal High |

## Pulse + Parallel + RS232

Hardware Version: 352W

6 TABLE 07

| Switch Block |                  |                  |                  |                   |
|--------------|------------------|------------------|------------------|-------------------|
| Switch       | Pulse Speed 25ms | Pulse Speed 45ms | Pulse Speed 60ms | Pulse Speed 100ms |
| 1            | OFF              | ON               | OFF              | ON                |
| 2            | OFF              | OFF              | ON               | ON                |
| 3            | <b>*1</b>        |                  |                  |                   |
| 4            |                  |                  |                  |                   |
| 5            |                  |                  |                  |                   |

Note: \*1 DIP Switches Setting refer to accessory sheet which by currencies.

6 TABLE 08

| Switch Block |             |              |
|--------------|-------------|--------------|
| Switch       | ON          | OFF          |
| 6            | Normal Open | Normal Close |

## MDB + Pulse + RS232

Hardware Version: 421A

6 TABLE 09

| Switch Block 1 |                |      |           |
|----------------|----------------|------|-----------|
| Switch         | Function       | OFF  | ON        |
| 1              | Coin Channel 1 | Free | Inhibited |
| 2              | Coin Channel 2 | Free | Inhibited |
| 3              | Coin Channel 3 | Free | Inhibited |
| 4              | Coin Channel 4 | Free | Inhibited |
| 5              | Coin Channel 5 | Free | Inhibited |
| 6              | Coin Channel 6 | Free | Inhibited |
| 7              | Coin Channel 7 | Free | Inhibited |
| 8              | Coin Channel 8 | Free | Inhibited |

6 TABLE 10

| Switch Block 1 |          |                  |
|----------------|----------|------------------|
| Switch         | MDB Mode | Pulse/RS232 Mode |
| 9              | OFF      | ON               |
| 10             | OFF      | ON               |

6 TABLE 11

| Switch Block 2 |                    |                   |
|----------------|--------------------|-------------------|
| Switch         | Pulse Normal Close | Pulse Normal Open |
| 9              | ON                 | OFF               |
| 10             |                    |                   |

## Parallel + ccTalk + RS232

Hardware Version: 421B

6 TABLE 12

| Function              | Switch |     |     |     |     |     |
|-----------------------|--------|-----|-----|-----|-----|-----|
|                       | 1      | 2   | 3   | 4   | 5   | 6   |
| Parallel / RS232 Mode | ON     |     |     |     |     |     |
| CCTalk Mode           | OFF    |     |     |     |     |     |
| Reserved              |        | ON  |     |     |     |     |
|                       |        | OFF |     |     |     |     |
| Accept Channel *      |        |     | ON  |     |     |     |
| Reject Channel *      |        |     | OFF |     |     |     |
| Accept Channel *      |        |     |     | ON  |     |     |
| Reject Channel *      |        |     |     | OFF |     |     |
| Accept Channel *      |        |     |     |     | ON  |     |
| Reject Channel *      |        |     |     |     | OFF |     |
| Reserved              |        |     |     |     |     | ON  |
|                       |        |     |     |     |     | OFF |

## 7. Study Mode Instruction (Pulse only)

The study function is only available for hardware version U. Maximum 8 channels are available for SCA to study coin.

When only one channel is setup, system enters single coin mode automatically; when more than one are setup, system enters multi coins mode.

For each channel setup, please prepare at least 10 coins which are in the same type for study procedure. The study instructions are as following:

7 TABLE 01

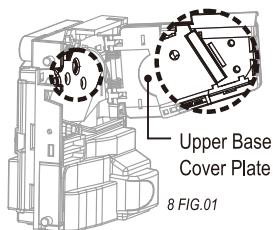
| Steps                         | Clear All Channel Memories                                                                                                                         |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                             | Turn off SCA power supply.                                                                                                                         |
| 2                             | Set Switches to study mode.<br>SW4: ON / SW5: ON                                                                                                   |
| 3                             | Turn on SCA power supply, then triggers the solenoid to switch once.                                                                               |
| 4                             | Set SW5 to OFF then ON again.<br>Then the solenoid switches 3 times, means that the clearance procedure is complete and ready for study procedure. |
| Teach Selected Channel Memory |                                                                                                                                                    |
| 5                             | Select a channel by SW1 to SW3.                                                                                                                    |
| 6                             | Turn on SCA power supply.                                                                                                                          |
| 7                             | Insert 10 coins for the channel to be taught.                                                                                                      |
| 7-1                           | Solenoid switches 3 times, means that the channel study is complete. Return to step 5 to continue study process.                                   |
| 7-2                           | Solenoid switches 6 times, means that the channel study is failed. Repeat step 7 until the channel study is complete.                              |
| 8                             | Turn off SCA power supply.                                                                                                                         |
| 9                             | Set SW4 and SW5 to operation mode.                                                                                                                 |
| 10                            | Turn on SCA power supply. SCA study complete.                                                                                                      |

## 8. Maintenance

To ensure SCA coin acceptor always operates properly, following maintenance steps are required. ICT suggests cleaning every 6 month; however, under heavy usage conditions or locations the maintenance may need to be more frequent.

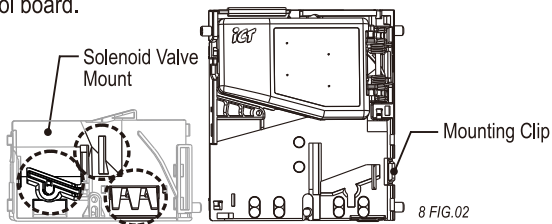
### Cleaning Recognition Sensors

Open flight deck to clean recognition sensors.



### Cleaning Output Sensors

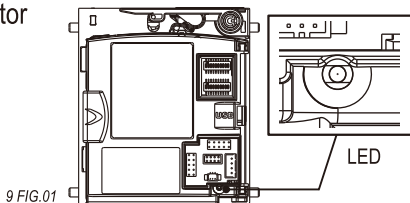
Release mounting clip through flat screwdriver to remove solenoid module. Then clean the output sensors with soft, dry cloth or towel. Please make sure the solenoid wire connector well connects to control board.



|  |                                                                                              |                                                    |
|--|----------------------------------------------------------------------------------------------|----------------------------------------------------|
|  | <b>Maintenance Notice</b><br><i>(Any improper maintenance will invalidate the warranty.)</i> |                                                    |
|  | <b>Recommended</b>                                                                           | <b>Mild, non-abrasive, soap water.</b>             |
|  | <b>DO NOT USE</b>                                                                            | <b>Organic solvent , Alcohol, Volatile liquid.</b> |

## 9. Troubleshooting

### LED Indicator



9 TABLE 01

| LED Indicator |         |     | Status                                | Corrective Actions                                            |
|---------------|---------|-----|---------------------------------------|---------------------------------------------------------------|
| Green         | Orange  | Red |                                       |                                                               |
| -             | -       | -   | Power ON                              | -                                                             |
| -             | ON      | -   | Inhibit                               | -                                                             |
| -             | Flashes | -   | I/O Test Mode                         | -                                                             |
| 1             | -       | 1   | Coil 1 Error                          | Contact your local dealer for further technical support.      |
| 2             | -       | 1   | Coil 2 Error                          |                                                               |
| 3             | -       | 1   | Coil 3 Error                          |                                                               |
| -             | -       | 2   | String manipulation has been detected | Inspect for foreign object in coin path and remove it if any. |
| 1             | -       | 2   | Pierce 1 Sensor Error                 |                                                               |
| 2             | -       | 2   | Pierce 2 Sensor Error                 |                                                               |
| 1             | -       | 3   | Entry Sensor Error                    |                                                               |
| 2             | -       | 3   | Return Sensor Error                   |                                                               |
| 1             | -       | 4   | Drop IN 1R Error                      |                                                               |
| 2             | -       | 4   | Drop IN 2R Error                      |                                                               |
| 3             | -       | 4   | Drop IN 1L Error                      | Contact your local dealer for further technical support.      |
| 4             | -       | 4   | Drop IN 2L Error                      |                                                               |
| -             | -       | 5   | Program Error                         |                                                               |



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





**International Currency Technologies Corporation**

No.28, Ln. 15, Sec. 6, Minquan E. Rd., Neihu Dist., Taipei City 114, Taiwan

[sales@ictgroup.com.tw](mailto:sales@ictgroup.com.tw) (For Sales)

[fae@ictgroup.com.tw](mailto:fae@ictgroup.com.tw) (For Customer Service)

Website: [www.ictgroup.com.tw](http://www.ictgroup.com.tw)

