



SCA1 Series

Coin Acceptor
Installation Guide



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1. Introduction

1-1. Overview

SCA 1 is designed as a reliable coin acceptor which is able to work steadily for high-security with acceptance rate 96% or greater and high accepting speed to provide you the most convenient service.

1-2. Features

- 16 channels available at once.
- Mechanical anti-string function.
- High acceptance rate 96% or greater.
- High accepting speed up to 3 coins per second.

2. Specification

General

Coin Parameters	Diameter : 17~29mm Thickness: 1.3~3.2mm
Accepting Speed	<cctalk+parallel> 1 coin / 0.7 sec <Parallel> 2~3 coins / 1 sec <Special Pulse> 2~3 coins / 1 sec
Acceptance Rate	96% or greater
Interface	Parallel, Special Pulse, ccTalk <i>*Note: For ccTalk information, please refer to Appendix.</i>

Electrical

Power Source	DC 10V~16V
Power Consumption	Standby : 0.03A, 0.36W Operation : 0.1A, 1.2W Maximum : 0.35A, 4.2W
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)

Mechanical

Outline Dimension	Refer to Page.5 & 6
Installation	Vertical, Max. Deviation: ±2°
Weight	Approx. 0.25kg (Net Weight)

3. Packing List

Main

SCA1 Coin Acceptor

Accessory

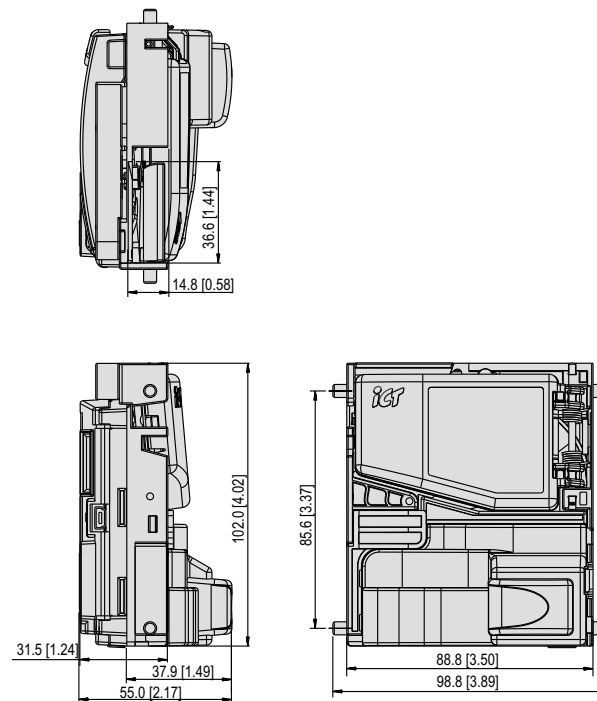
Harness: Refer to Page.13

SCA1 Installation Guide

4. Dimension

<Flow Type>

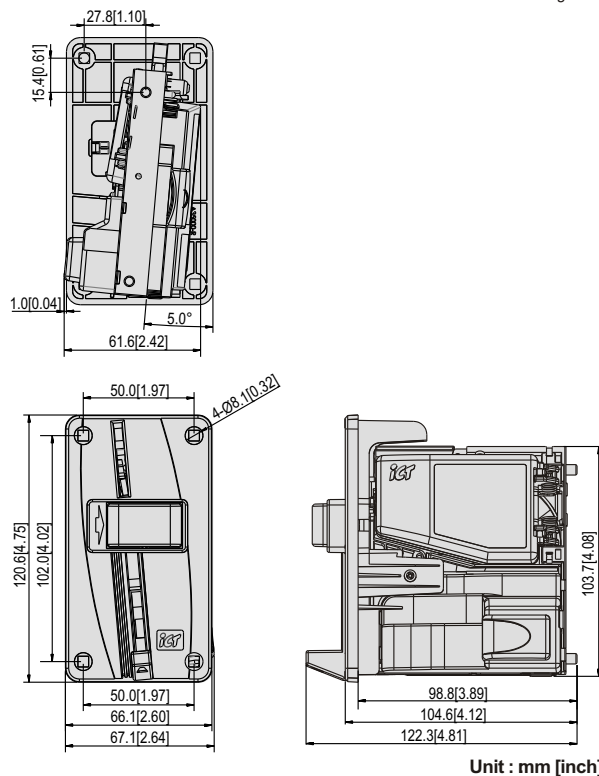
Figure 1



Unit : mm [inch]

<Front Type>

Figure 2



5. Installation

5-1. How to install SCA1 in the machine?

5-1-1. Flow Type

To install SCA1 in the machine, we suggest you to hang SCA1 in the machine (as Figure 3) using the lateral mounting studs (as Figure 3-1).

Figure 3

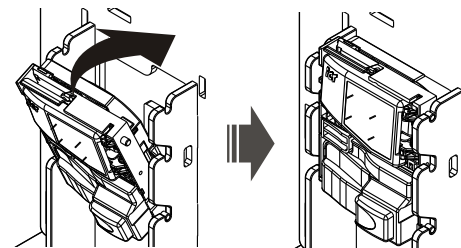
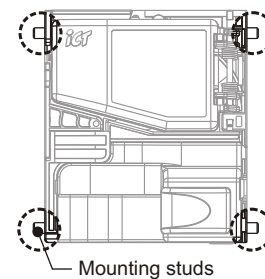


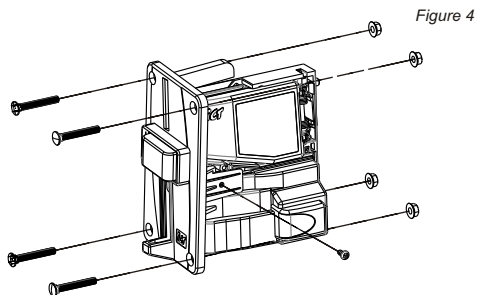
Figure 3-1



5-1-2. Front Type

Please follow the steps as below.

1. Use four screws to fix bezel on the machine.



2. Fix main base on bezel by mounting clips.

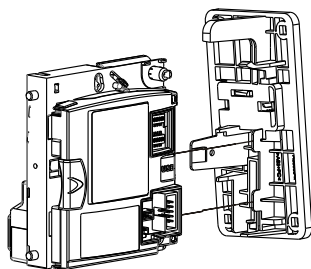


Figure 5

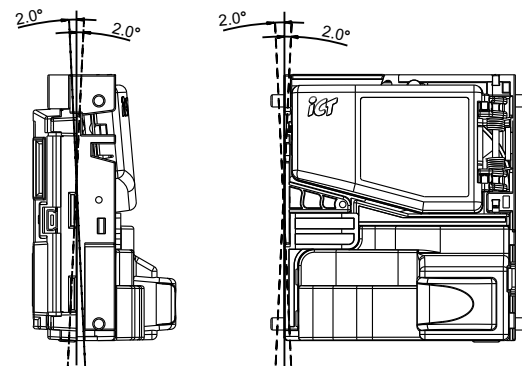


Figure 6

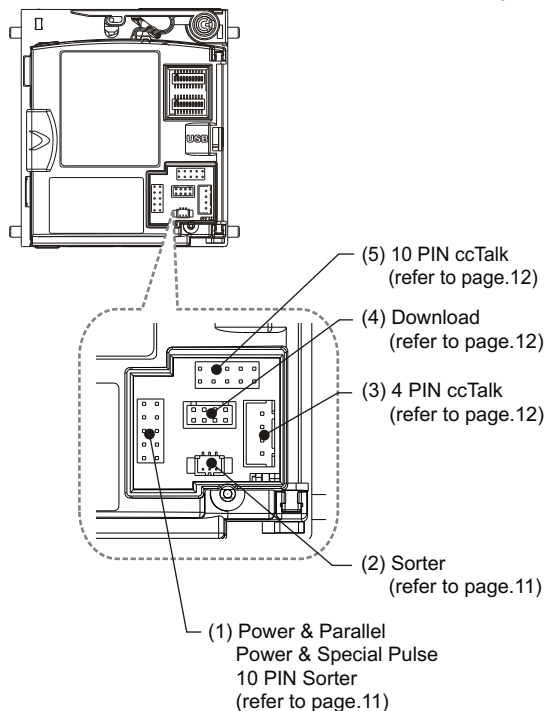


The deviation of SCA1 should be less than 2° (as Figure 6).

5-2. Connector & PIN Assignment

◆ Connector

Figure 7



◆ PIN Assignment

(1) Power & Parallel/ Power & Special Pulse/ 10 PIN Sorter

Power & Parallel

10 □ 9 □	PIN 1- I_GND	PIN 6- INHIBIT_LINE
8 □ 7 □	PIN 2- +12V IN	PIN 7- COIN_LINE1
6 □ 5 □	PIN 3- COIN_LINE5	PIN 8- COIN_LINE2
4 □ 3 □	PIN 4- COIN_LINE6	PIN 9- COIN_LINE3
2 □ 1 □	PIN 5- RETURN	PIN 10- COIN_LINE4

Power & Special Pulse

PIN 1- I_GND	PIN 6- N/A
PIN 2- +12V IN	PIN 7- N/A
PIN 3- SERV	PIN 8- N/A
PIN 4- SEL (CREDIT)	PIN 9- N/A
PIN 5- N/A	PIN 10- N/A

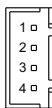
10 PIN Sorter

PIN 1- I_GND	PIN 6- N/A
PIN 2- +12V IN	PIN 7- N/A
PIN 3- COIN_LINE5	PIN 8- N/A
PIN 4- COIN_LINE6	PIN 9- N/A
PIN 5- N/A	PIN 10- N/A

(2) Sorter

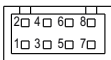
1 2 3	PIN 1- SORTER_SOL1
□ □ □	PIN 2- SORTER_SOL2
□ □ □	PIN 3- SORTER

(3) 4 PIN ccTalk



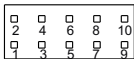
PIN 1- +12V_I
PIN 2- N/A
PIN 3- I_GND
PIN 4- DATA

(4) Download



PIN 1- GND	PIN 5- /RESET
PIN 2- TX22	PIN 6- +5V
PIN 3- RX22	PIN 7- RX11
PIN 4- PROGRAM	PIN 8- Tx11

(5) 10 PIN ccTalk



PIN 1- DATA	PIN 6- N/A
PIN 2- N/A	PIN 7- +12V_I
PIN 3- N/A	PIN 8- I_GND
PIN 4- N/A	PIN 9- N/A
PIN 5- N/A	PIN10- N/A

5-3. Harness Application

Table 1

Interface	Used Voltage	Usage	Harnesses	Page
Parallel	12V DC	Power	IDC-RA10400	14
Special Pulse	12V DC	Power	WEL-RSCA07	15

 Please contact ICT FAE for more details.

Figure 8

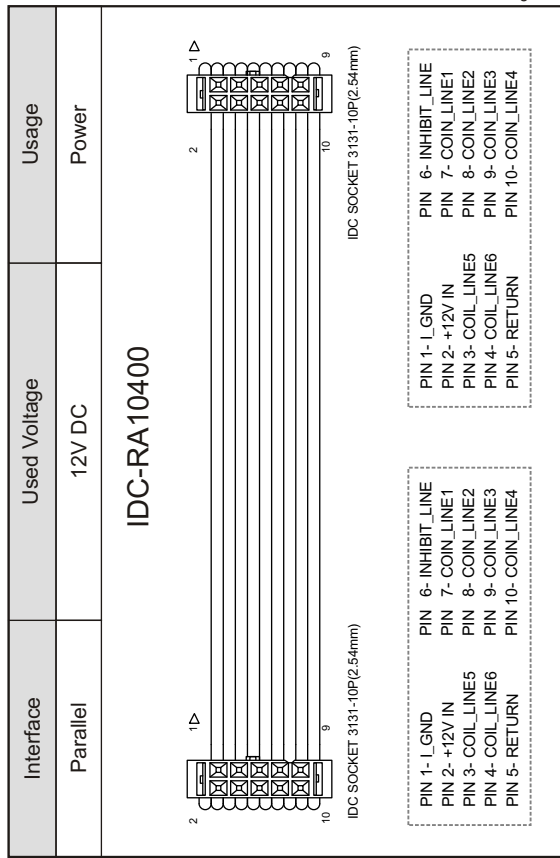
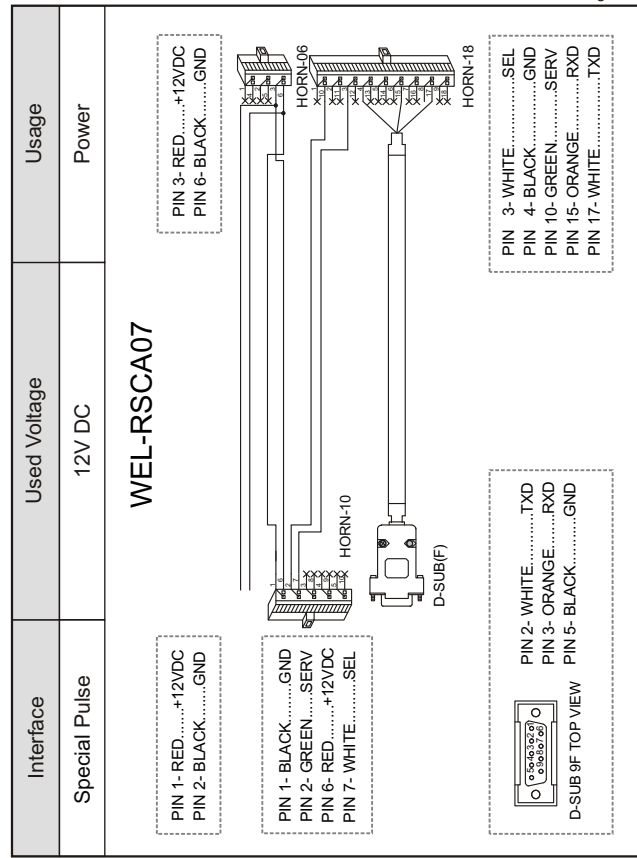


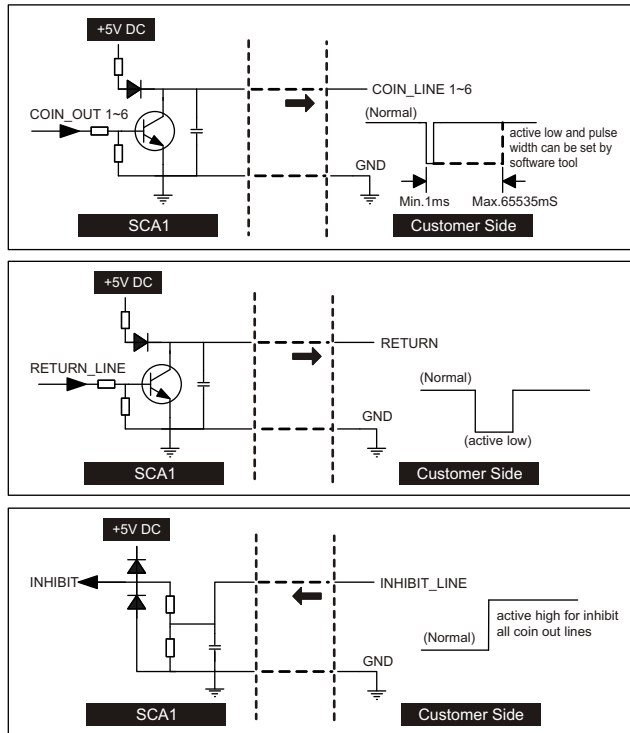
Figure 9



5-4. I/O Circuits

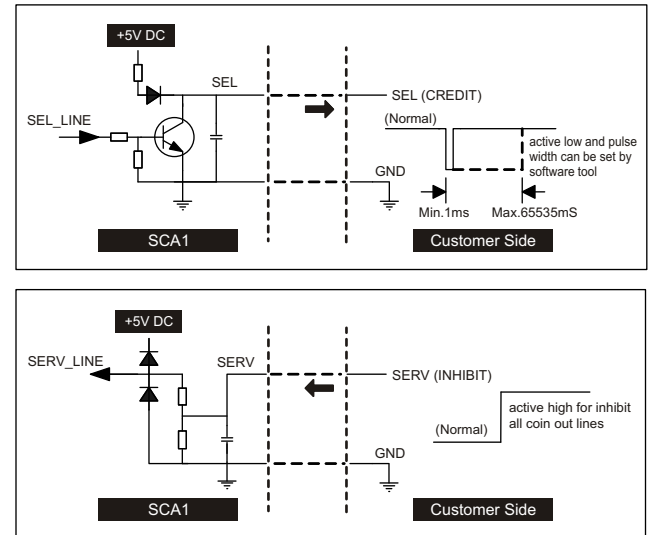
Parallel Interface

Figure 10



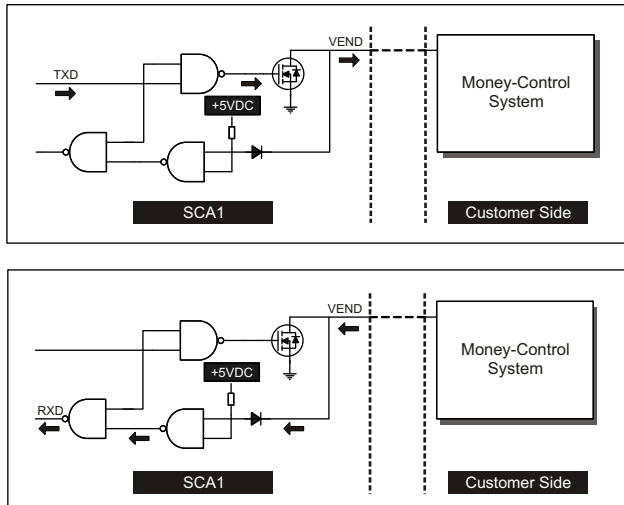
Special Pulse Interface

Figure 11



ccTalk Interface

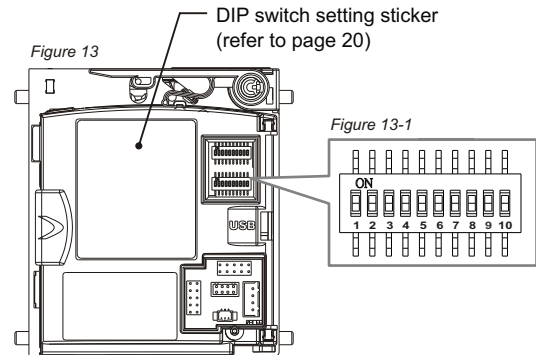
Figure 12



5-5. DIP Switch Setting

The DIP switches are located on the side of SCA1 (as Figure 13) which are designed for coin channel setting, there are 32 channels memory available (16 channels at once), users can select coin accepting or reject by setup the DIP switches (as Figure 13-1).

For DIP switch setting which fits your need, please refer to the sticker next to DIP switches on SCA1.



Note: SW9 & SW10 are parameter setups for ccTalk.

<ccTalk/ Parallel>

SCA1 (ccTalk/Parallel)

Switching block S1 ☐ ON ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF

Note: 1. S1- 9→OFF (ccTalk) · S1- 9→ON (Parallel)
2. S1-10→OFF (bank 0) · S1-10→ON (bank 1)

Switch	OFF	ON
S1-1 Coin Channel 1 to S1-8 Coin Channel 8	free	Inhibited
	free	Inhibited

Switching block S2 ☐ ON ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF

Switch

S2-1 Coin Channel 9 to S2-8 Coin Channel 16	free	Inhibited
	free	Inhibited

Mode	SW9	SW10	Mode	SW9	SW10
ICT Mode	OFF	OFF	Mode 1	ON	OFF
User Define	ON	ON	Mode 2	OFF	ON

◆ ccTalk for Sorter Setup.

Part Number : HB146C-R

Figure 13-2

<Special Pulse>

SCA1 (Special Pulse)

Switching block S1 ☐ ON ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF

Note: 1. S1- 9→OFF (ccTalk) · S1- 9→ON (Special Pulse)
2. S1-10→OFF (bank 0) · S1-10→ON (bank 1)

Switch	OFF	ON
S1-1 Coin Channel 1 to S1-8 Coin Channel 8	free	Inhibited
	free	Inhibited

Switching block S2 ☐ ON ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF ☐ OFF

Switch

S2-1 Coin Channel 9 to S2-8 Coin Channel 16	free	Inhibited
	free	Inhibited

Mode	SW9	SW10	Mode	SW9	SW10
ICT Mode	OFF	OFF	Mode 1	ON	OFF
User Define	ON	ON	Mode 2	OFF	ON

◆ ccTalk for Sorter Setup.

Part Number : HB308A-R

Figure 13-3

6. Maintenance

To make sure SCA1 coin acceptor always works smoothly, please clean the internal sensors regularly.

To clean the internal sensors:

1. Open cover plate of upper base, hold it to open, and then use a soft, dry cloth, or towel to clean sensors (as Figure 14).

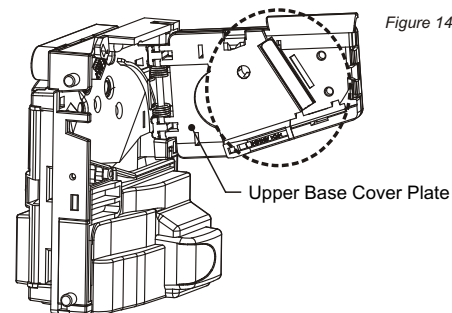
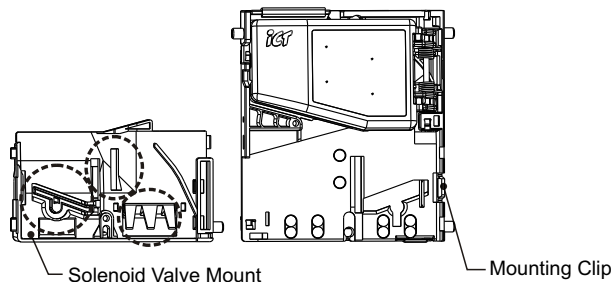


Figure 14

- Release the mounting clip and remove the Solenoid Valve Mount, and then clean the internal parts with a soft, dry cloth, or towel (as Figure 15).



7. Troubleshooting

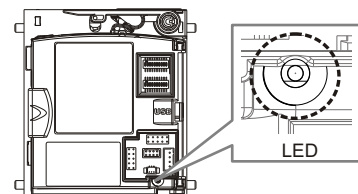


Table 2

LED Flashes			Status	Corrective Actions
Green	Orange	Red		
N/A	N/A	N/A	Power ON	N/A
N/A	ON	N/A	Inhibit	
N/A	Flashes	N/A	I/O Test Mode	
1	N/A	1	Coil 1 Error	Call ICT or agents for technical support.
2	N/A	1	Coil 2 Error	
3	N/A	1	Coil 3 Error	
N/A	N/A	2	A Stringing attempt has been detected.	Inspect for foreign objects in coin path and clean it.
1	N/A	2	Pierce 1 Sensor Error	
2	N/A	2	Pierce 2 Sensor Error	
1	N/A	3	Input Sensor Error	
2	N/A	3	Return Sensor Error	
1	N/A	4	Drop IN 1R Error	
2	N/A	4	Drop IN 2R Error	
3	N/A	4	Drop IN 1L Error	
4	N/A	4	Drop IN 2L Error	Call ICT or agents for technical support.
N/A	N/A	5	Program Error	



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

Maintenance Notice
(Any improper maintenance will invalidate the warranty.)

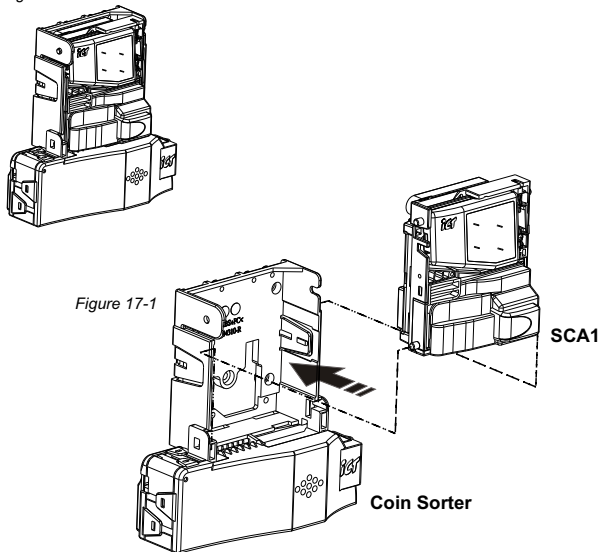
Recommended	Mild, non-abrasive, soap water.
DO NOT USE	Organic solvent , Alcohol, Volatility liquid.

8. Coin Sorter for SCA1 Flow Type (optional)

The coin sorter is designed for combining with SCA1 coin acceptor. It can sort up for four different coins at the same time while accepting multiple coins from SCA1.

For purchasing Coin Sorter for SCA1, please contact ICT.

Figure 17

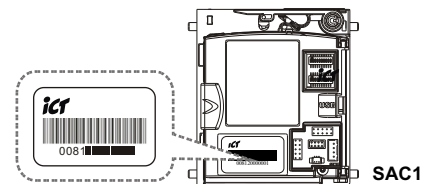


Please refer to “Coin Sorter for SCA1” Installation Guide for more information.

◆ ccTalk Information

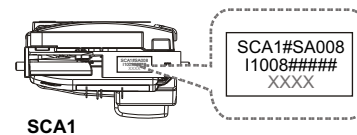
- Manufacturer ID: ICT
- Equipment Category ID: Coin Acceptor
- Product Code: SCA1
- Serial Number: According to last 8 digits of production serial number (*Default: 12345678*).

Figure 18



- Software Revision: According to the software revision number.
Ex. SCA1#SA008I1008#####

Figure 19



Please contact ICT for more information.



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