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Coin Acceptor
UCA
Series
Installation Guide



International Currency Technologies Corp.

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1. Introduction

1-1. Overview

UCA series is designed as reliable coin acceptors which are able to work steadily in high temperature for high-security with acceptance rate up to 96% or greater. Moreover, UCA Series includes UCA2 and UCAES for different accepted coins and applications to fulfill your needs.

1-2. Features

- Low power consumption.
- Eight coin channels available at once.
- Mechanical and electrical anti-string functions.
- Accepting speed up to 3 coins per second.
- Coin sorter option available for UCA2 and UCAES.

2. Specifications

General

Acceptance Rate	96 % or greater
Accepting Speed	Approx. 3 coin/sec
Interface	Pulse RS232 (TTL level)
Coin Parameters	Diameter : 20mm~32mm Thickness: 1.2mm~3.2mm

Electrical

Power Source	12V±10% (10.8V~13.2V DC)
Power Consumption	Standby : 0.05A, 0.6W Operation: 0.2A, 2.4W Maximum: 0.5 A, 6W
Operation Environment	Operation Temperature: -5°C~60°C Storage Temperature: -20°C~75°C Humidity: 30%~85% RH (no condensation)

Mechanical

Outline Dimension	Refer to page. 4
Net Weight	Approx. 0.35 kg



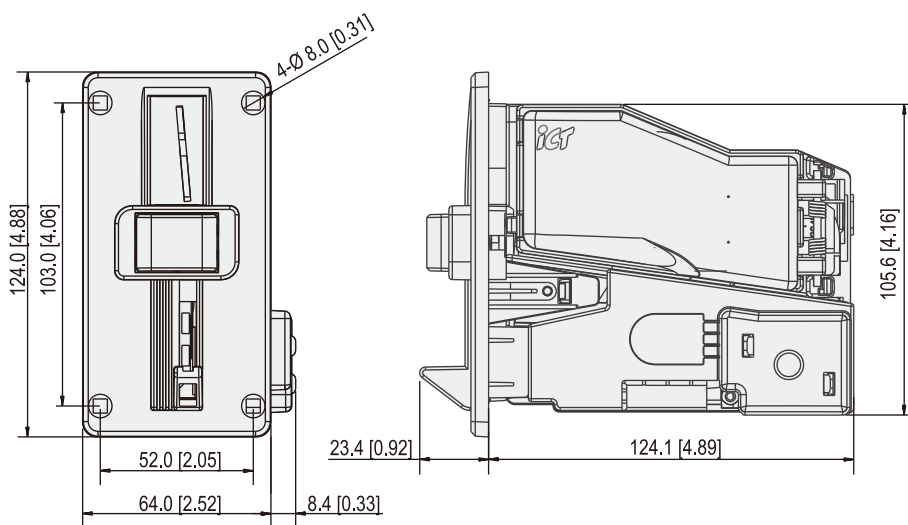
Installation: Indoor use only!!

3. Packing List

Main	UCA Series Coin Acceptor
Accessory	Harnesses: Refer to 5-2 UCA Series Installation Guide UCA Series Switches Setting Guide

Mode Type	Harness	Others
Pulse	Refer to 5-2	Screw pack
RS232	Refer to 5-2	Screw pack

4. Dimension



Unit : mm [inch]

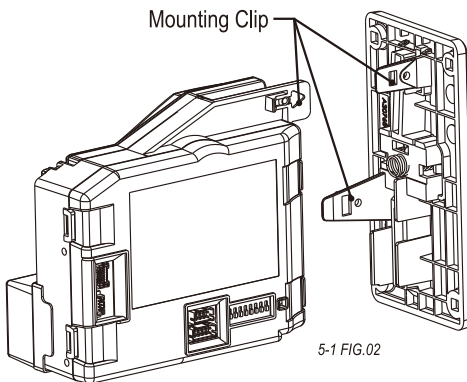
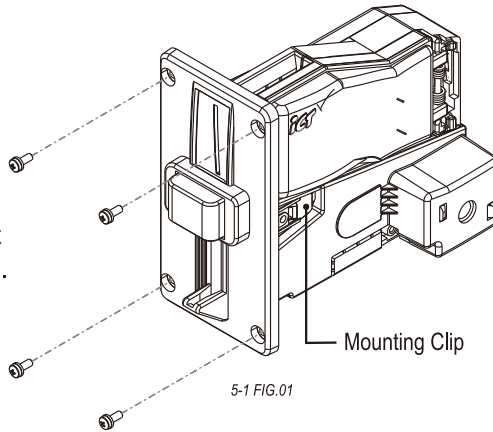
4 FIG.01

5. Installation

5-1. How to Install?

To install UCA Series coin acceptor on your machine, please follow the steps as below:

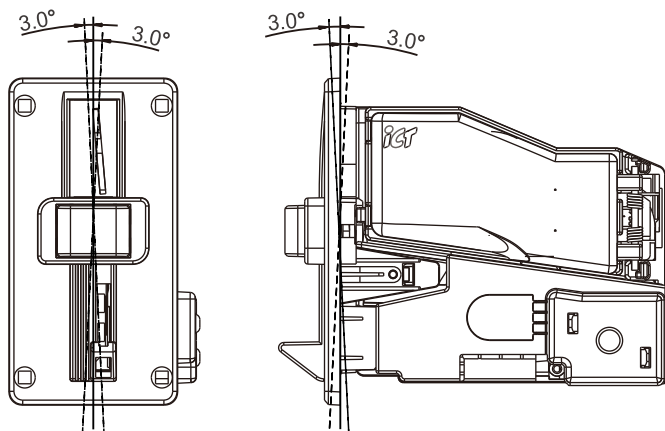
1. Use four screws to fix bezel on the machine.



2. Fix main base on bezel by mounting clips.



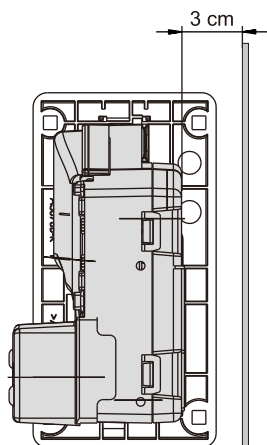
UCA Series is not supposed to be aslope over 3°.



5-1 FIG.03



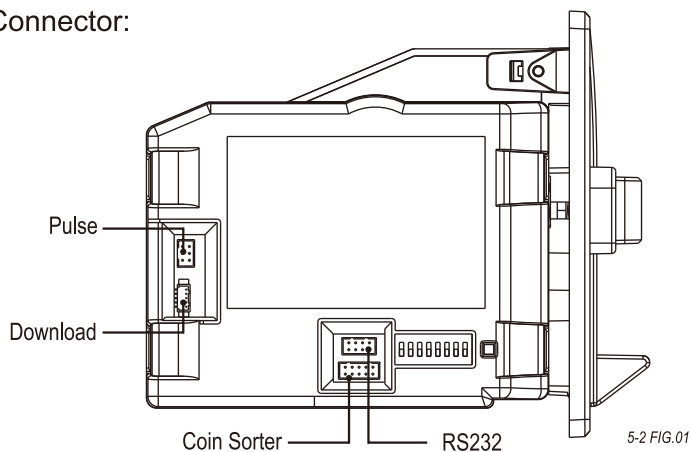
To make sure UCA Series work smoothly, install machine farther than 3 cm from metal items is recommended.



5-1 FIG.04

5-2. Harness Application

Connector:



5-2 TABLE 01

Interface	Used Voltage	Usage	Harness	Page
Pulse	12V DC	Power & *Data Comm.	WEL-RMS03	8
		Power & *Data Comm.	WEL-RMS02(Optional)	8
		Extension Wire	CU-R961-1(Optional)	9
RS232	12V DC	Power	WEL-RMS03	8
	+5V TTL	*Data Comm.	WEL-R7U06-2	10

*Data Comm.: Data Communication.

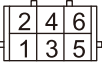
5-2 FIG.02

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

WEL-RMS03



TMT 2*3(2.0mm)



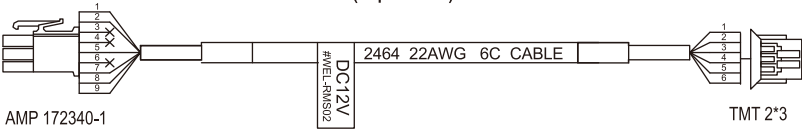
TMT 2*3 BACK VIEW

PIN 1- RED.....+12VDC
PIN 2- ORANGE.....GND
PIN 3- GREEN.....INHIBIT+
PIN 4- YELLOW.....METER
PIN 5- BLUE.....CREDIT/TIMER
PIN 6- PURPLE.....N/A

5-2 FIG.03

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

WEL-RMS02
(Optional)



AMP 172340-1

DC12V
#WEL-RMS02

2464 22AWG 6C CABLE

TMT 2*3



AMP 172340-1
BACK VIEW

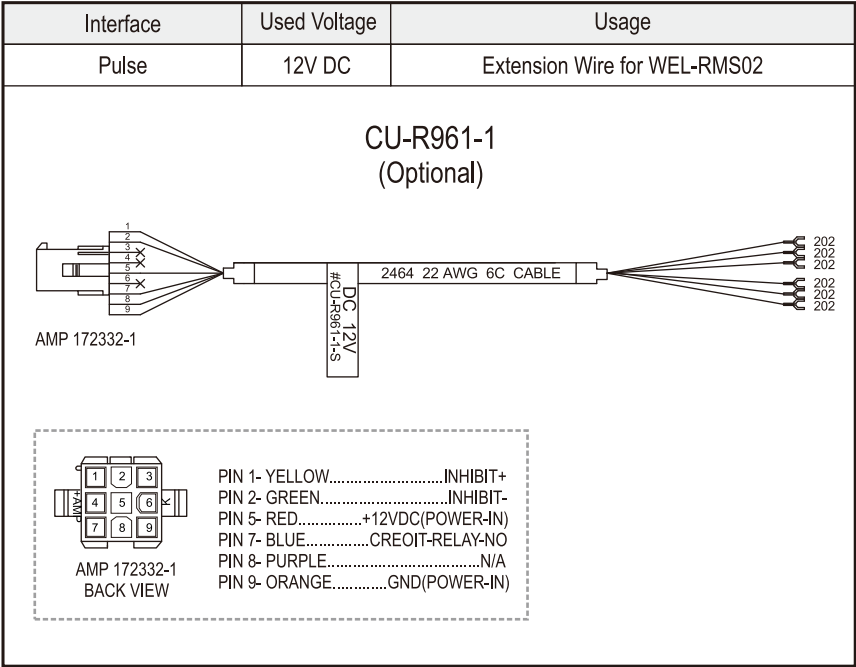
PIN 1- YELLOW.....METER
PIN 2- GREEN.....INHIBIT+
PIN 5- RED.....+12V
PIN 7- BLUE.....CREDIT-ON
PIN 8- PURPLE.....N/A
PIN 9- ORANGE.....GND

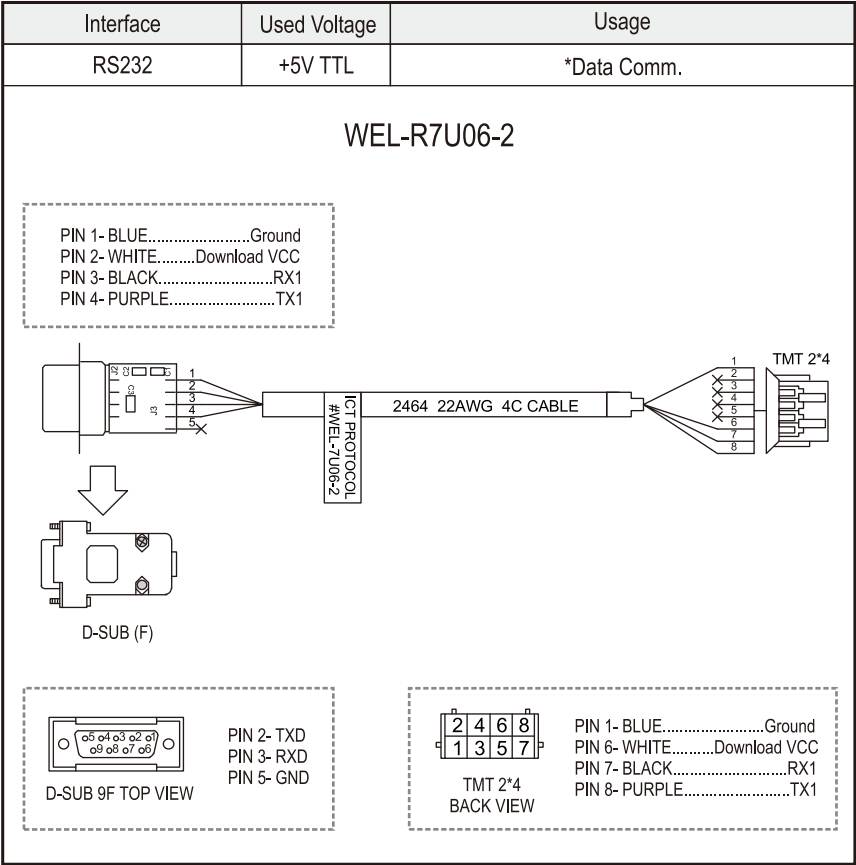


TMT 2*3
BACK VIEW

PIN 1- RED.....+12V
PIN 2- ORANGE.....GND
PIN 3- GREEN.....INHIBIT+
PIN 4- YELLOW.....METER
PIN 5- BLUE.....CREDIT-ON
PIN 6- PURPLE.....N/A

5-2 FIG.04

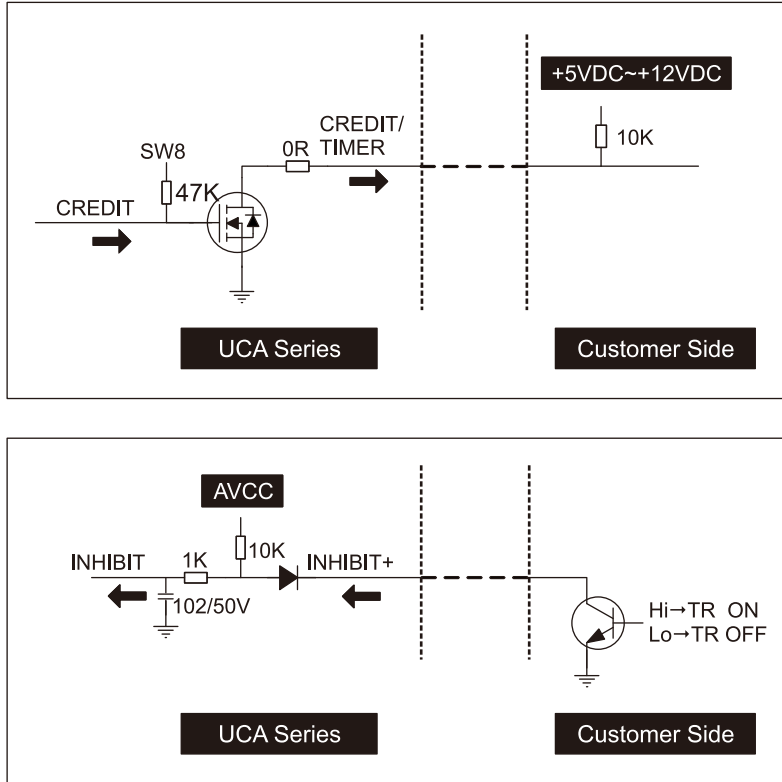




5-3. I/O Circuits

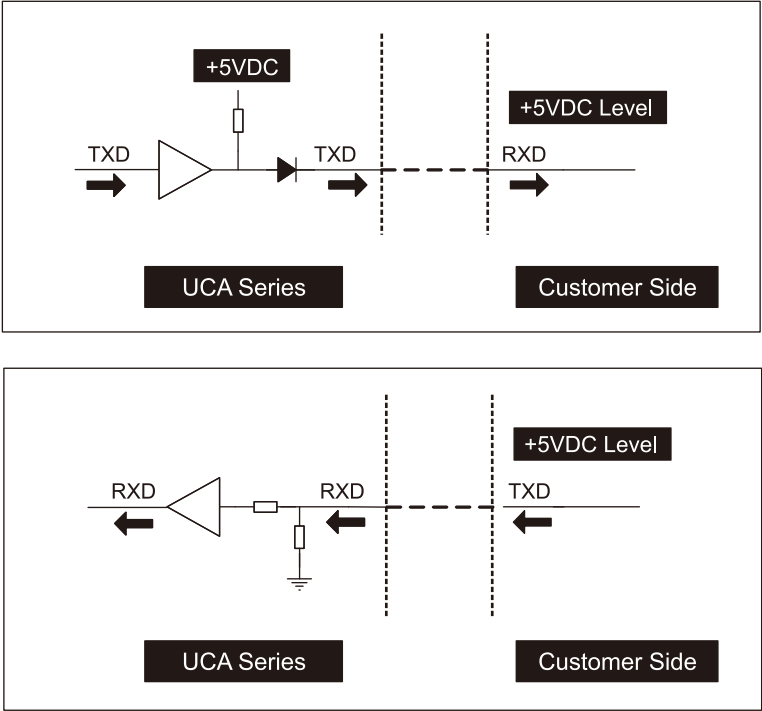
Pulse Interface.

5-3 FIG.01



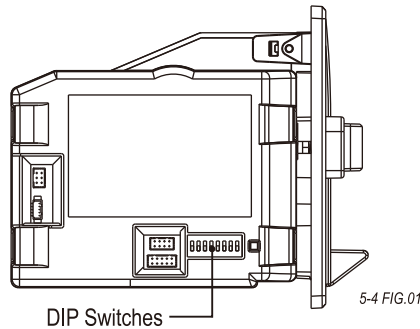
RS232 Interface.

5-3 FIG.02



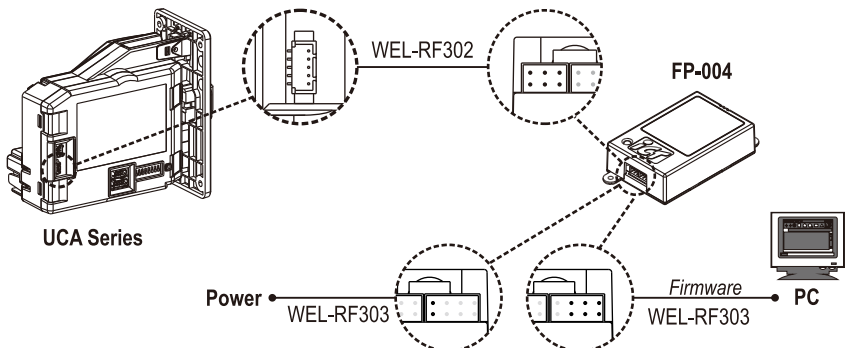
5-4. DIP Switch Setting

The DIP switches are located on side of UCA Series. DIP switch setting varies according to different functions which are used by users. For DIP switch setting which fits your needs, please refer to “UCA Series Switch Setting” guide in the package.



5-5. Software Download and Upgrade

To download and upgrade the software to UCA 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.



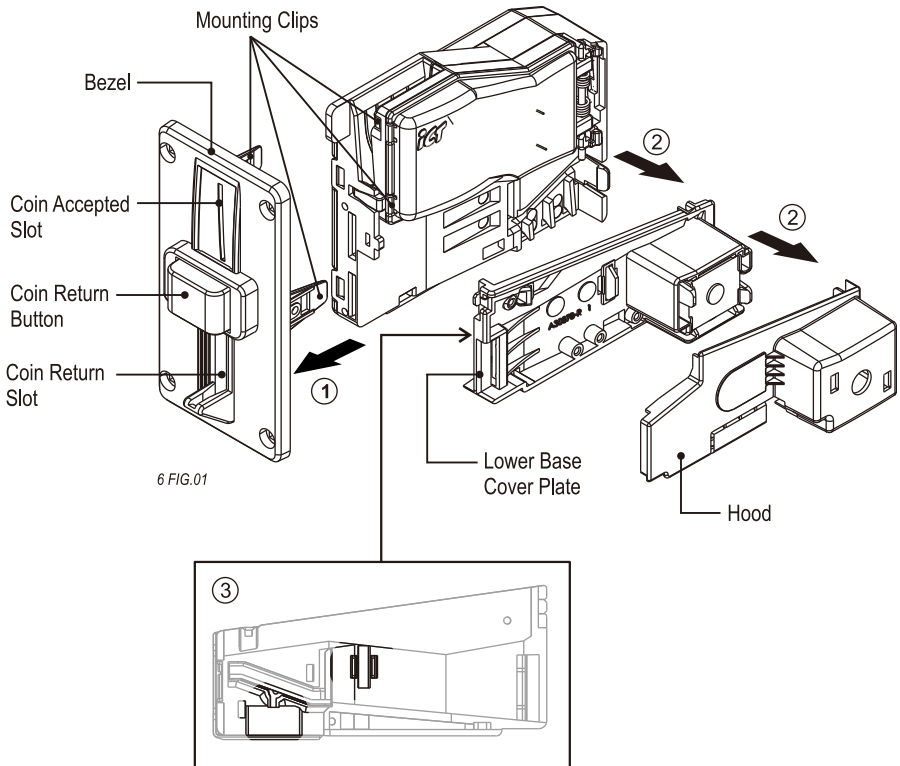
Power must be applied to UCA Series after connecting.

6. Maintenance

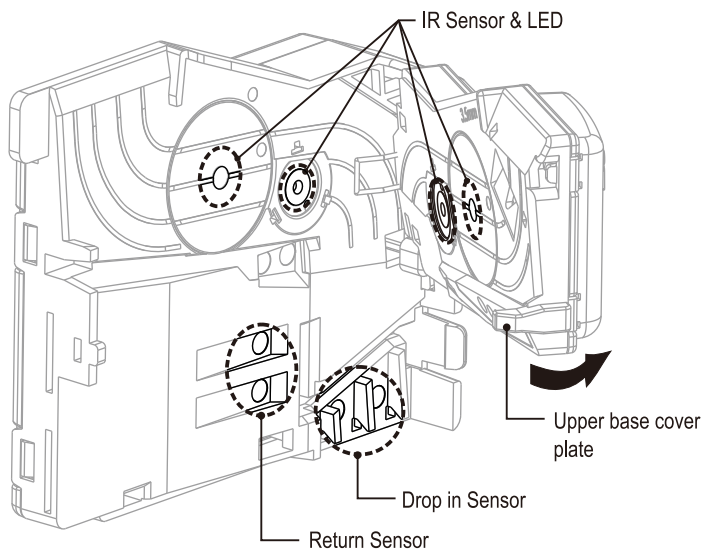
To make sure UCA Series coin acceptor always works smoothly, please clean the internal sensors regularly.

To clean the internal sensors:

1. Remove bezel by releasing mounting clips and pulling it out.
2. Release the clip and remove lower base cover plate and hood.
3. Use a soft, dry cloth, or towel to clean lens.



4. Open upper base cover plate and then use a soft, dry cloth, or towel to clean sensors.



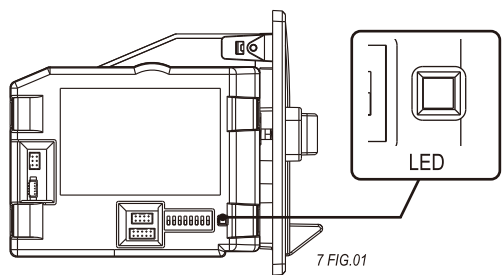
6 FIG.02



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

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

7. Troubleshooting



7 FIG.01

7 TABLE 01

LED Flashes			Status	Corrective Actions
Green	Orange	Red		
N/A	N/A	1	First coil set error	Call ICT or agents for technical support.
N/A	N/A	2	Second coil set error	
N/A	N/A	3	Fish sensor error	Inspect for foreign objects in coin path and clean.
N/A	N/A	4	Drop sensor error	
N/A	N/A	5	Return sensor error	
N/A	N/A	6	IR sensor error	Call ICT or agents for technical support.
N/A	N/A	7	Program error	
Fast 1	N/A	Fast 1	A Stringing attempt has been detected.	Inspect for foreign objects in coin path and clean.

7 TABLE 01-1

LED Flashes			Status
Green	Orange	Red	
ON	N/A	N/A	Power ON
N/A	ON	N/A	INHIBIT
N/A	Flashes	N/A	I/O Test Mode



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



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