SERVICE MANUAL

S-Cube Ver 1.0

Please read the manual carefully and keep it in mind before using this machine.

Put this manual within touch of your reference in anytime.
The following safety precautions are given throughout this manual. They must be strictly followed to protect those who install, use or maintain this product as well as to protect players, visitors and property.

For safety reasons,
- The following suggestions should be adhered to:

**WARNING**
Disregarding could result in serious injury.

**CAUTION**
Disregarding could result in injury or product damage.

- The following graphic suggestions describe the types of precautions to be followed.

⚠ Indicates a care should be taken.

🚫 Forbidden.

🔧 Indicates a matter which must be performed.

- Precautions to be followed:

Certain procedures require a qualified in-shop maintenance person or industry specialist. For such instructions, a qualified person must take care of the jobs.
- Otherwise an electric shock, machine trouble, or a serious accident may result.
- Replacing the machine parts, inspecting and maintaining the machines, and troubleshooting must be assigned only to a qualified in-shop maintenance person or industry specialist. This booklet gives instructions that hazardous jobs in particular must be handled by an industry specialist. Qualified in-shop maintenance person and industry specialist are defined as follows.

**Qualified in-shop maintenance person**
- A service staff shall have experience in operations of game machines. The staff shall be responsible for assembly, installation, inspection and maintenance of the machine.

**Industry specialist**
- An industry specialist must be engaged in designing, manufacturing, inspecting and servicing amusement machines. He or she must have an education in electrical, electronic and mechanical engineering, and routinely maintain and repair amusement machines.
**PRECAUTIONS FOR USE**

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**WARNING**

If there is any abnormality such as smoke, bad smell or abnormal noise being emitted from the machine, immediately turn OFF the main power switch and unplug the power cord from the receptacle to stop operating it.
- Using the machine in abnormal conditions could result in fire or accidents.

**In case of abnormality**
1. Turn OFF the main power switch.
2. Unplug the power cord from the receptacle.
3. Contact your nearest dealer.

Do not leave the power cord plugged in improperly or covered with dust.
- Doing so could result the power cord periodically.

---

**CAUTION**

Do not use this product anywhere other than industrial areas.
- Using in a residential area or an area next to a residential area could affect signal reception of radios, television sets, telephones, etc..

- Do not give shock the surface of glass products.

- Please do not play this game if
  - When you do drinking;
  - When your physical condition is not normal;
  - When you are in pregnancy;
  - When you have on a pulse controller;
  - When you have recently experienced a cramp or fainting away while watching TV.

- Avoid excessive force/shock while playing/moving the game.
- While do games, pay attention to surrounding.

Do not plug or unplug the power cord with wet hands.

In handling the power cord, follow the instructions below.

- Do not damage the power cord.
- Do not bend the power cord excessively.
- Do not heat the power cord.
- Do not bind the power cord.
- Do not sandwich the power cord.
- Do not modify the power cord.
- Do not twist the power cord.
- Do not pull the power cord.
- Do not stand on the power cord.
- Do not drive a nail into the power cord.

If the power cord or power plug becomes damaged, stop using the machine immediately and ask your nearest dealer to replace the parts.
## Precautions for Use

### WARNING

- Be sure to consult an industry specialist when setting up, moving or transporting this product.
- This product should not be set up, moved or transported by anyone other than an industry specialist.
- When installing this product, set the 4 leg levelers evenly on the floor and make sure that the product is installed stably in a horizontal position. Unstable installation may result in injury or accident.
- When installing this product, do not apply undue force on movable parts. Otherwise, injury and accident may result, or the product may be damaged.

The machine for indoor usage only does not install outside.

Do not set up the game machine near emergency exits.

Protect the game machine from:
- Rain or moisture.
- Direct sunlight.
- Direct heat from air-conditioning and heating equipment, etc.
- Hazardous flammable substances.
- Otherwise an accident or malfunction may result.

Do not place containers holding chemicals or water on or near the game machine.

Do not place objects near the ventilating holes.

Do not bend the power cord by force or place heavy objects on it.

Never plug or unplug the power cord with wet hands.

Never unplug the game machine by pulling the power cord.

### CAUTION

- Be sure to use indoor wiring within the specified voltage requirements. For extension cord, use the specified rating or more.

Be sure to use the attached power cord.

Never plug more than one cord at a time into the electrical receptacle.

Do not lay the power cord where people walk through.

Be sure to ground this product.

Do not exert excessive force when moving the machine.

For proper ventilation, keep the game machine 100mm (4") away from the walls.

Do not alter the system related dipswitch settings.
PRECAUTIONS FOR USE

⚠️ WARNING

Be sure to turn OFF the main power switch and unplug the power cord from the receptacle before inspecting or cleaning the machine.

When replacing parts, be sure to use parts of the correct specifications. Never use parts other than the specified ones.

Opening inside the machine shall be done by machine specialist only as high electric current is being sent inside. For game machine with monitor, a care should be taken while opening its back door. If not, a damage to the inside parts or the monitor may occur.

If the sub power switch of the service panel is turned OFF without turning OFF the main power switch of the power supply unit, some parts in the units remain live. When opening the back door, be sure to turn OFF the main power switch and unplug the power cord from the receptacle.

Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodeling.

To clean the game machine, wipe it with a soft cloth dampened in a neutral detergent.
- Using thinner of other organic solvent or alcohol may decompose the material.
- Electrical shock or equipment failure could be caused by water entering the inside of the machine.

⚠️ CAUTION

Components in the game are sensitive to vibrations and impact. Care should be used when moving and transporting the game machine.
Be sure not to let the machine tip over.

Before moving the machine, be sure to turn OFF the main power switch, unplug the power cord from the receptacle and remove the power cord from the machine.

Before moving take the machine, off the levelers and move it on the casters.

Avoid excessive force while moving the machine.

PRECAUTIONS IN HANDLING

- When setting up, inspecting, maintaining, moving or transporting this product, follow the procedures and instructions set forth in this manual and perform such work safely.

- Do not set up, handle, inspect, maintain, move or transport this product under conditions equivalent to the condition of "WARNING" or "CAUTION" specified in this manual.

- If a new owner is to have this product as a result of transfer, etc., be sure to give this manual to the new owner.
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## 1. SPECIFICATION AND DIMENSION

### 1-1. DIMENSION

![Dimensions Diagram]

### 1-2. SPECIFICATION

<table>
<thead>
<tr>
<th><strong>DIMENSION (W x D x H)</strong></th>
<th>740 x 932 x 2079 (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PACKING DIMENSION (W x D x H)</strong></td>
<td>765 x 850 x 1950 (mm)</td>
</tr>
<tr>
<td><strong>WEIGHT (kg)</strong></td>
<td>209 kg [WEIGHT INCLUDING PACKAGING : 230 kg]</td>
</tr>
<tr>
<td><strong>VOLTAGE</strong></td>
<td>AC 110V</td>
</tr>
<tr>
<td><strong>FREQUENCY RANGE</strong></td>
<td>60Hz</td>
</tr>
<tr>
<td><strong>CONSUMPTION</strong></td>
<td>100 W</td>
</tr>
<tr>
<td><strong>CERTIFICATION</strong></td>
<td>-</td>
</tr>
</tbody>
</table>
1-3. NAME OF PARTS

BILLBOARD
MAIN CABINET
SIDE GLASS
FRONT KEY DOOR
COIN SELECTOR
PRIZE OUT
BILL ACCEPT
BUTTON PANEL
COIN BOX
PRIZE DISPENSER PART
TARGET DISPLAY PART
COUNTER PART
PRIZE GUIDE PART
MAIN PCB PART
TILT PART
SMPS PANEL PART
AC INPUT PART
1-4. STICKER LOCATION

1-5. COMPONENTS

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART NAME</th>
<th>SPEC.</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AC POWER CORD</td>
<td>110V or 220V</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>KEY</td>
<td>6001, 7001</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>BOLT</td>
<td>M3x8L</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>BOLT</td>
<td>M4x8L</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td>BOLT</td>
<td>M4x10L</td>
<td>10</td>
</tr>
<tr>
<td>6</td>
<td>BOLT</td>
<td>M6x16L</td>
<td>7</td>
</tr>
<tr>
<td>7</td>
<td>WRENCH</td>
<td>2.5mm, 4mm</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>MANUAL</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>
2. INSTALLATION

2-1. INSTALLATION

- Need to have installation place. Maintenance Zone & Play zone should have at least 2000mm x 2500mm each.

**IMPORTANT**

- Once you set up the machine with required game-play area, when installing this product, set the 4 leg levelers evenly on the floor and make sure that the product is installed stably in a horizontal position. Otherwise the set winning percentage can be twisted.

---

2-2. PRECAUTIONS FOR

* Optimum temperature for game operation is between -10°C to 45°C. Installing/operating the game outside given temperature range may cause malfunction or damages to the components.

2-3. READER AND CARD READER RELATED BILLS

- This machine can install Credit Card Reader or Bill Acceptor as an Option.
2-4. HOW TO INSTALL BILLBOARD

1. Combine ①BILLBOARD FRAME and ②BILLBOARD FIX BKT. [M6 bolt, 4 points]

2. Combine them as shown in the picture.

3. When ② stage is fixed, simply fix it to hang on the cabinet.

3. Lift up the billboard ASS'Y to the top of the cabinet and connect the ③ wiring connector. Hang the billboard ASS'Y using the ④ holes in the cabinet.

4. Use two holes inside the cabinet top to fix the hole from ③ stage.

5. Please complete assembling as shown in the picture.
2-5. HOW TO INSTALL

1. Open door using door key.

2. Connect AC Cord in Control panel (4) through internal hole (3) and fix it with cable tie (5).

3. After fasten bolt in Button panel Assy, hang it on cabinet using holes 2.Ea.(2). Then fasten rest of bolts M4 bolt x 8Ea). Connect main connector with cable from button panel ass'y

4. Complete the Assy as shown picture.
3. SETUP SETTINGS

3-1. MACHINE SETUP

1. HOW TO ENTER SETUP MENU

There is "Control panel" inside cabinet. User may set any setting using following.

2. SOUND VOLUME

On the left below of AO mainboards, 2 buttons for Sound volume of the game exist. Left button to lower volume, Right button to higher it. The basic set value is 88. If you set by 2, you can set from 0~100. If you push the button on Total Status Window, the Volume value shows as belowed Window in a moment and then come back to the original screen.

* TOTAL STATUS *

V_x_ ---------------------
Volume : 88
3. SERVICE BUTTON
- On the below of CPU in Cube AO Mainboard, there is a button for providing the Free Credit or the Credit for Gaming in a case of Test. For each pushing the button, Play Credit is increasing by 1. Counter Meter does not being increased.

4. SETUP LCD & SET BUTTON
- The SETUP LCD on the right side of Cube AO Mainboard has functions for checking the machine status or changing, saving and testing the user set value. When you power on, below screen shows and Program Version displays.

5. BUTTON INSTRUCTIONS FOR USE
- There are Up/Down/Right/Left/Select/Cancel button on panel. All buttons can perform different functions depending on whether it’s a short press or a long press & held on the button(s).

  [↑↓] Up/Down Button : To move up and down the menu.
  [←→] Left/Right Button : To change the set values (+/-) after pressing Select button.
  SELECT Button : To select desired menu. Changing Set Value.
  CLEAR Button : To reset to Factory setting / Calibration

* Calibration of S-Cube is the first thing you should do when you start the machine for the first time after installation.
  Calibration is testing the functions of components and can affect the setting of the payout rates
  Calibration can be performed by Calibration of SET MENU.

3-2. STATUS MODE

1. COIN COUNT

<table>
<thead>
<tr>
<th>TOTAL STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>V_x_ --------</td>
</tr>
<tr>
<td>TODAY : 0</td>
</tr>
<tr>
<td>TOTAL : 0</td>
</tr>
</tbody>
</table>

   - "TODAY" DISPLAYS THE INSERTED COINS AFTER OPERATORS INITIALIZE THE SATUS
   1) On the field, Operators can initialize by long-key on [CLEAR] button
   2) Or by performing "Initialize setup"

   "Total" is total inserted coins, it is impossible to erase and it can not be erased.

2. TOTAL PRIZE OUT

<table>
<thead>
<tr>
<th>TOTAL STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>V1.0xU ------</td>
</tr>
<tr>
<td>TOTAL PRIZEOUT:000000</td>
</tr>
<tr>
<td>TOTAL PLAY :00000000</td>
</tr>
</tbody>
</table>

   - "TOTAL PRIZE OUT" is total Quantity of Prizes out
   1) On the field, Operators can initialize by long-key on [CLEAR] button
   2) Or by performing "Initialize setup"

   If it succeeds, the prize of allocated holes will be dispensed and 1 will be added when the Pusher bar comes back to origin point.

   "TOTAL PLAY" is total game played times, Bonus games also include. It is impossible to erase and it can not be erased.
3. CREDIT COUNT

* TOTAL STATUS *
V_ X_ --------------------------
CREDIT CREDIT COUNT
00 +00

- Displays a two-digit display, up Credit Limit set by the Set Menu.
- Play quantities and can be injected, including the corresponding bonus amount 00 in front of, The number of the service du Coin is +00.
- The front panel displays the combined quantity gaming Credit FND has.

4. PRIZE OUT & PLAY COUNT (CELL A.B & 1-6)

<table>
<thead>
<tr>
<th>* ROW STATUS: 1</th>
<th>* ROW STATUS: 2</th>
<th>* ROW STATUS: 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>V_ X_</td>
<td>V_ X_</td>
<td>V_ X_</td>
</tr>
<tr>
<td>nRND ,CNT ,PRZ, TOTAL</td>
<td>nRND ,CNT ,PRZ, TOTAL</td>
<td>nRND ,CNT ,PRZ, TOTAL</td>
</tr>
<tr>
<td>A 999 0 0 00000</td>
<td>A 999 0 0 00000</td>
<td>A 999 0 0 00000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>* ROW STATUS: 4</th>
<th>* ROW STATUS: 5</th>
<th>* ROW STATUS: 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>V_ X_</td>
<td>V_ X_</td>
<td>V_ X_</td>
</tr>
<tr>
<td>nRND ,CNT ,PRZ, TOTAL</td>
<td>nRND ,CNT ,PRZ, TOTAL</td>
<td>nRND ,CNT ,PRZ, TOTAL</td>
</tr>
<tr>
<td>A 999 0 0 00000</td>
<td>A 999 0 0 00000</td>
<td>A 999 0 0 00000</td>
</tr>
</tbody>
</table>

Press (Up) and (Dn) buttons to move to desired cell number
n : Lock Status / o : Unlock Status

Remains "Unlock" until "Prize Out" number matches the set "Pay Out" value.
For Example, if payout rate(RND) is set at 10 with zero Prize Out(PRZ), and unsuccessful attempts (CNT) reaches 30,
S-Cube remains "Unlock" until it pays out three prizes to match its' Payout rate.

RND : Payout rate
CNT : Count of unsuccessful attempts
PRZ : Prize out count
TOTAL : Total play count

Of previous odds and emission displays, A 1, B, A OR B is twice

5. TILT(SHAKEN) ERROR COUNTS

* ERROR TILT=00X *
V_ X_ --------------------------
CREDIT CREDIT COUNT
00 +00

X : Error Tilt error counts
- Tilt Error is when the machine get some outside shock. When Tilt gets contacts more than 1 time,
- Error Event will proceed for 10 secs and then transfer to the normal mode.
- Press [CLEAR] button to initialize the TILT ERROR count.
3-3. Press and hold [SELECT] button in "STATUS MODE" to enter "SET-UP MENU".

1. VERSION DISPLAY

```
*SET MENU*
V_x_-----------------
***** S-Cube *****
ANDAMIRO V_xU
```

(N = Hole No.1~6)

2. PAYOUT SET-UP

```
*SET MENU*
V_x_-----------------
Hole X-N
0999 +/- 1
```

* SETTING PAYOUT

*** The setting range is 1~9999 (Default : 0999)

1) Press [SELECT] button to enter "PAYOUT SET-UP"
2) Change values by LEFT/RIGHT Button. The 1 of right side display units by 10, 100, 1000.
3) Press (\textless{} or \textgreater{}) to increase or decrease the value from 0 to 9.

(\textless{} : Increase, \textgreater{} : Decrease

4) Press [SELECT] button to save.

* Prizebox REMOVE FUNCTION

Prize Out function of a specific prize cell can be disabled in case of malfunction of parts such as front/rear motor, and switches.

1) Press [SELECT] button to enter "PAYOUT SET-UP" (Default : 0999).
2) Press [Up] or [Down] button to move from 1's to 1000's
3) Press (\textless{} or \textgreater{}) button to change the value from 0 to 9 on each digit.

(\textless{} : Increase, \textgreater{} : Decrease

4) Change the payout rate to "0" for a specific prize cell, and "Disabled: n"(n = prize cell number, A,B, or 1~6) appears on FND as below:

```
*SET MENU*
[Disabled: 1 ]
Hole X-1
[Disabled]
```

5) Press [SELECT] button to disable the specified prize cell.
6) Is displayed on all the screen is still Prizebox.

```
* TOTAL STATUS *
[Disabled: 1 ]
TODAY : 0
TOTAL : 0
```

7) In order to recover the function after repairing PrizeLoader, change the probability of the allocated hole into the value you want.
3. CHANGING CALIBRATION STARTING POSITION

You may change the starting position to the right of each target.
1) Setting range is -20 ~ +20 (Default : 000).
2) Press [SELECT] button to enter "PAY OUT SET-UP" (Default : 000).
3) Change the Values by [Up], [Dn] Button.
   (↓) : Increase, (↑) : Decrease
4) If you set (-) value, the origin point moves more left to the basic location. If you set (+) value, the origin point moves more right to the basic location.
5) Press [SELECT] button to save all changes.

4. 1 PLAY COIN NUMBER

Default is 4 coins per play (Range : 1~10).

ex) Range 1 coin ~ 10 coins or 1 credit ~ 10 credits

5. BILL CREDIT SET-UP

Default is 4 coins per bill (Range : 1~20 coin(s)).

6. COIN UP LIMIT

Maximum number of coin(s) up credits allowed. Default coin up limit is 20 (Range : 1~100).

7. PLAY TIME LIMIT

Default play time is 30 seconds (Range : 10 ~ 60 sec).

8. DEMO SOUND

Turn ON/OFF demo sound. Default=On
9. EXAMPLE SETTING FOR PRIZE LOADER ON GAME

*SET MENU*
V_x_ -----------------
Prize Show-off
On

Setting Modes for moving Pusher Bar on forward/backward in front of the Prize Loader of allocated hole when you stop the push bar on any hole location on game.
- Prize Loader example forward mode On/Off Setting.
- Default=On (example function of moving forward a little and backward)

* Below 3 settings
- 10. Attached GSM Module No setting
- 11. GSM Message DATA transmitting term setting
- 12. Receiver Phone No setting

Only applicable when you attach the Communication Module which is Option item

10. ATTACHED GSM MODULE NO SETTING (APPLICABLE FOR ATTACHMENT WITH THE COMMUNICATION MODULE WHICH IS OPTION ITEM)

*SET MENU*
V_x_ -- 0000000000
GSM NO.
From : 0000000000

Input the USIM Number which is the No of communication GSM Module attached on Game Machine. GSM Module transfers Game Data, Error Code, Prize Out Data, Front Door of Game machine and Power On status to the Receiver instantly or on the time interval which is set up in previous.

1) Basic Value is 0000000000 and USIM Phone Number for Data transferring is not set up.
2) "[0000000000]" displays when you push [SELECT] button and enter into Change Mode.
3) You can move to change location by {<}, {>} but button
   {<} : Move Left , {>} : Move Right

4) After moving to the location you want to change, change the value by the {Up}, {Dn} button.
   Setting Variation is 0~9, Blank.
   {Up} : increase, {Dn} : decrease

5) Push [SELECT] button after changing the Value.

11. SETTING THE TRANSFER INTERVAL OF GSM MESSAGE DATA (APPLICABLE FOR ATTACHMENT WITH THE COMMUNICATION

*SET MENU*
V_x_ -- 0000000000
Select Call Mode
6 Hour

*** You can set up the transferring interval of game management data related to the profit, TODAY/TOTAL DATA and 6 Holes Data to the receiver.

1) Basic setting is 6 hours.
2) When you push [SELECT] button, you enter to the mode of Probability change, "[6 hour]" displays.
3) After moving to the location you want to change, change the value by the {Up}, {Dn} button.
   The Set up is Off, 10 Minute 4, 6, 8, 12, 24 Hour.
   Notice : No Data Transferring when Off is set.
   {Up} : increase, {Dn} : decrease

4) Push [SELECT] button after changing the Value.
12. SETTING RECEIVER’S PHONE NO (APPLICABLE FOR ATTACHEMENT WITH THE COMMUNICATION MODULE WHICH IS OPTION ITEM)

*SET MENU*
V.x  --  0000000000
Receiver Phone No.
To #1:  0000000000

*** Input the receiver’s phone number which will receive game data, Error Code, Prize Out Data.***

1) The Basic is 0000000000 and The phone No of Data Receiver is not set.
2) When you push [SELECT] Button, you enter to the mode of change, "[0000000000]" displays.
3) You can move to the change position by 〈, 〉Button.
   〈: Move Left, 〉: Move Right

4) After moving to the location you want to change, change the value by the {Up}, {Dn}Button.
   The Set up value is 0~9, blank
   {Up} : increase, {Dn} : decrease


6) Recipients Phone NO. Setting, and up to three, {Up}, change the Phone {Dn} as Button.

13. SAVE & EXIT

*SET MENU*
V.x  -----------
Save & Cancel
Press [SEL] & [CLR]

Exit after saving set up by pushing [SELECT] Button.
Exit without saving when you long key [CLEAR] Button.
<table>
<thead>
<tr>
<th>CONTENT</th>
<th>SMS Short Message Service</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Power On/Off</td>
<td>Real-time Transport</td>
<td></td>
</tr>
<tr>
<td>Power-On</td>
<td>Transmit Power On</td>
<td></td>
</tr>
<tr>
<td>Power-Off</td>
<td>Transmit Power On(If the UPS is equipped with Option transfer function)</td>
<td></td>
</tr>
<tr>
<td>2 Front Door Status</td>
<td>Real-time Transport</td>
<td></td>
</tr>
<tr>
<td>Door-Close</td>
<td>On Door closed, power on, when they are closed or Door Transport</td>
<td></td>
</tr>
<tr>
<td>Door-Open</td>
<td>When you open the Door Transport</td>
<td></td>
</tr>
<tr>
<td>3 Prize Out</td>
<td>Real-time transmission at present emissions</td>
<td>Hole Data is also Transport</td>
</tr>
<tr>
<td>1-HOLE PRIZE OUT</td>
<td>1 HOLE Prize Out</td>
<td></td>
</tr>
<tr>
<td>2-HOLE PRIZE OUT</td>
<td>2 HOLE Prize Out</td>
<td></td>
</tr>
<tr>
<td>3-HOLE PRIZE OUT</td>
<td>3 HOLE Prize Out</td>
<td></td>
</tr>
<tr>
<td>4-HOLE PRIZE OUT</td>
<td>4 HOLE Prize Out</td>
<td></td>
</tr>
<tr>
<td>5-HOLE PRIZE OUT</td>
<td>5 HOLE Prize Out</td>
<td></td>
</tr>
<tr>
<td>6-HOLE PRIZE OUT</td>
<td>6 HOLE Prize Out</td>
<td></td>
</tr>
<tr>
<td>x-P:nnn T:nnnnn</td>
<td>x: Hole number</td>
<td>R: Probability settings</td>
</tr>
<tr>
<td>C: Attempts after prizes emissions</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P: Prizes effluent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T: Total number of attempts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Income data</td>
<td>Such as 4 hours, 6 hours, 8 hours, 12 hours, 24 hours</td>
<td>Income data according to the transmission time setting</td>
</tr>
<tr>
<td>TODAY=nnnnn/TOTAL=nnnnnn</td>
<td>TODAY :: After initialization income</td>
<td></td>
</tr>
<tr>
<td>TOTAL :: Total income</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Error report</td>
<td>If an error occurs, real-time transmission)</td>
<td></td>
</tr>
<tr>
<td>EE Pr. : AC-Motor Error</td>
<td>Prize out Error</td>
<td></td>
</tr>
<tr>
<td>EE AC : AC-Motor Error</td>
<td>AC-Motor Error AC Sensor is open or closed when all</td>
<td></td>
</tr>
<tr>
<td>EE S1 : AC-Motor Sensor 1 Error</td>
<td>AC-Motor Sensor 1 Open switch) Error</td>
<td></td>
</tr>
<tr>
<td>EE S2 : AC-Motor Sensor 1 Error</td>
<td>AC-Motor Sensor 2 Close switch) Error</td>
<td></td>
</tr>
<tr>
<td>EE F1 : Prize Motor Front Switch 1 Error</td>
<td>1 HOLE Prize Motor Front Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE F2 : Prize Motor Front Switch 2 Error</td>
<td>2 HOLE Prize Motor Front Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE F3 : Prize Motor Front Switch 3 Error</td>
<td>3 HOLE Prize Motor Front Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE F4 : Prize Motor Front Switch 4 Error</td>
<td>4 HOLE Prize Motor Front Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE F5 : Prize Motor Front Switch 5 Error</td>
<td>5 HOLE Prize Motor Front Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE F6 : Prize Motor Front Switch 6 Error</td>
<td>6 HOLE Prize Motor Front Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE r1 : Prize Motor Rear Switch 1 Error</td>
<td>1 HOLE Prize Motor Rear Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE r2 : Prize Motor Rear Switch 2 Error</td>
<td>2 HOLE Prize Motor Rear Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE r3 : Prize Motor Rear Switch 3 Error</td>
<td>3 HOLE Prize Motor Rear Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE r4 : Prize Motor Rear Switch 4 Error</td>
<td>4 HOLE Prize Motor Rear Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE r5 : Prize Motor Rear Switch 5 Error</td>
<td>5 HOLE Prize Motor Rear Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE r6 : Prize Motor Rear Switch 6 Error</td>
<td>6 HOLE Prize Motor Rear Switch Error Front of the switch failure</td>
<td></td>
</tr>
<tr>
<td>EE 06 : Pusher Error</td>
<td>Pusher Rear SW. Error</td>
<td></td>
</tr>
<tr>
<td>EE 08 : Pusher Error</td>
<td>Pusher Front SW. Error</td>
<td></td>
</tr>
<tr>
<td>EE 12 : Home Return Error</td>
<td>Home Return Error</td>
<td></td>
</tr>
<tr>
<td>EE 15 : Tilt Warning !!</td>
<td>Tilt Warning !!</td>
<td></td>
</tr>
</tbody>
</table>
3~4. Press and hold UP & DOWN buttons at the same time to enter "TEST MENU"

1. CHECKING HOLE POSITION(S)

* TEST MENU *
V_x_ ______________
Test All Rows
Press CLEAR Button

*** Checking the Calibration hole place.
Press [CLEAR] button to calibrate all holes to check the hole positions.
"ts tn" appears Front panel FND. "n" stands for a hole number.
"do ne" appears when calibration completes.
If it failed, you should perform the Calibration due to the changed position.

2. Calibration

* TEST MENU *
V_x_ ______________
Calibration
0 (CLR=RESET)

*** Calibrating the hole position of Game machine. Only Calibration related data would be changed and saved.
If you push the [clear] Button, first, open and close the prize door on the lower part of Game machine 4 times.

* TEST MENU *
V_x_ ______________
PROGRESS...

The Calibration screen is as below, it shows the success times of each hole.
The meaning of this number is very important, 3~5 turns is basic value.
If it is lower or higher than that, it can affect the probability.
In case of this, you need to check 3~5 times by performing calibration after disassembling the screw of "S" letter on PusherBox and then fixing by pushing slightly the "S" letter on right or left side.

* TEST MENU *
V_x_ ______________
Hole: 1 2 3 4 5 6
CNT: 0 0 0 0 0 0

"Catn" displays on the front FND when you perform Calibration. "n" means the number of each hole.
When it is done, "do ne" displays.
Exit to upper menu mode by pushing [SELECT] BUTTON.
3. Prize Motor Test

* TEST MENU *
V_x_ ---------------
Prize Motor
ALL (CLR=PUSH)

*** Test the prize motor&switch on each prize cell.

1) Default is "ALL". If you press [CLEAR]Button all Prize Loader(6Ea) are tested at the same time.
If Front switch detect prize loader, it will stop automatically.
And press [CLEAR]Button to return Prize loader to starting point.

* TEST MENU *
V_x_ ---------------
Prize Motor
ALL (CLR=PULL)

To return to the origin, again press the [CLEAR] Button is PrizeLoader 6 simultaneous retraction of motor and
When switching to Rear SW in PrizeLoader PrizeLoader 6ea all, you stop.
The test repeated each time you press the [CLEAR] Button.

2) If you want to select Prize loader, please enter select mode by pressing [SELECT]Button.

3) Using [>,<]Button Select Prize loader to test and press [CLEAR]Button to start testing.
4. Pusher Box Motor/Sensor Test

* TEST MENU *
V_x_ ---------------
Motor Test
Press SELECT Button

*** "Motor test" will test all functions and motor of Capsule hopper. It moves Pusher box right and left to test motors and sensors in Pusher Box. Once you press [SELECT] Button, you may see following screen and activate Test Mode.

Press the [SELECT] Button comes next screen, and activate the Test Mode, and Prize Out Door is closed, and this means that the sensing point.

* TEST MENU *
V_x_ ---------------
-- S2 X0 RL -- --

Press CLEAR TO Exit

1) Main Door SW, Test

On the screen status, test the Main Door Open/Close SW in the Game machine.
If the SW, is not pushed down (Door Open Status), "OP" displays.
If the SW, is pushed down (Door Closed Status), "---" displays.

2) Prize Out Door Test

If you press start button on the status like picture, prize outdoor will be open and display S1.
And Press start button again, Prize outdoor will be closed and display S2.

S1 : Door Open SW, S2 : Door Close SW

3) Pusher Box Motor/Sensor Test

3-A) For Pusher box testing, button functions for moving pusher box are as following.

(>) : Right, (>) : Left / (Up) : Up, (Dn) : Down

3-B) Once a sensor perceives movement of pusher Box, relevant sensor will be displayed, then next sensor is activated. Previous sensor will be shown as "---".

3-C) X0: Origin Sensor, RL: Rear Sensor, ML: Middle Sensor (Fall), FL: Front Sensor (Success)

* TEST MENU *
V_x_ ---------------
S1 S2 X0 RL ML FL
Press CLEAR TO Exit

4) If you press Clear button after finishing Motor/Sensor Test, it moves to [Motor Test]
5. Aging Test

* TEST MENU *
V__x__  ---------------
Aging Test
Press SELECT Button

*** Aging Test, depending on the game is set according to the probability of the normal routine.
Each hole in order to try to game consoles, and Aging Test.

1) [SELECT] Button is pressed, the following screen will appear Aging Test To run.

* TEST MENU *
V__x__  ---------------
Entering Aging Test

2) Aging Test is repeated until the power is turned off.
3) Aging Test changes the value of ROW STATUS, you should initialize the value by performing "Initialize Setup" after the test.

6. FACTORY INITIALIZE

* TEST MENU *
V__x__  ---------------
Factory Initialize
Press CLEAR Button

*** The Calibration as set all the settings to the factory default state.

If you press [CLEAR] Button, all setup come to factory setting and perform calibration.
First of all, 4 times, open and close the Prize Door on the lower part of a machine.

* TEST MENU *
V__x__  ---------------
*Factory Initializing*
Wait a Moment...

The screen of calibration is as below picture.
It shows the number of success for each hole which should be stay between 3~5 because it's related with payout. Unless the number is between 3~5, It's strongly recommended to adjust "S" on Pusher Box.

* TEST MENU *
V__x__  ---------------
Hole: 1 2 3 4 5 6
CNT: 0 0 0 0 0 0

Is displayed as "Can" in Calibration consoles run at the front of the FND, a number of holes, each "n" is Means. Once completed, you will see a "do nE".
If you press [SELECT] Button, it activates "Test All Rows" showing "ts tn" in FND. When it's finished you may see "do nE" in FND.
When it is done, the basic screen of Test Menu access displays.
### 7. Initializing Set-Up Values

**TEST MENU**

- V_x_
- Initialize Setup

Press CLEAR Button

***Initialize all settings of "Set Menu" and some game data. Press and hold [CLEAR] button to initialize the SET-UP values and data excluding calibration. Calibration/Total is not affected.***

### 8. Saving the Test Menu and Exit

**TEST MENU**

- V_x_
- Save & Cancel

Press [SEL] & [CLR]

Press the [SELECT] button to save the settings and exit the test menu. Press the [CLEAR] button to longkey without saving.

### 3-5. Error Code

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Content</th>
<th>Status</th>
</tr>
</thead>
</table>
| 1. EE-12   | Home(Origin) Return Error  
- This Error code is generated in case of you cannot check the origin point due to origin point switch error or motors malfunction because the origin switch should be detected when you turn on the power or PusherBox returns back to origin point(Home) during the machine operation.  
Check and change the Origin switch or motor connected with PusherBox on back side of target Acryl inside of the machine. | ERROR EVENT, STOP |
| 2. EE-AC   | Prize Out Door Error  
- This Error code is generated in case of the prize door is closed when you turn on the power or the prize door is not working because the Prize door on the down side of the game should be opened and closed to dispense the prize when a game succeeds.  
Check and change the switch or motor connected with Prize Door. | ERROR EVENT, STOP |
| 3. E52     | Prize Out Door Close S/W. Error  
- This Error code is generated in case of the prize door is not stopped at normal position or not working properly. In case of the prize door is closed when you turn on the power or when the game is succeed, prize door on the down side of machine should be closed after dispensing the prize. | ERROR EVENT, STOP |
| 4. E51     | Prize Out Door Open S/W. Error  
- This Error code is generated in case of the prize door on the down side of the machine is not opening properly when you turn on the power or in case of game success because the prize door should be opened when Prize-Loader dispenses the prize.  
Check and change the motor connected with Prize Door or the switch on open location (Rear SW.) | ERROR EVENT, STOP |
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
</table>
1. If the initialization process, which checks Front SW of Prize Loader, and the Rear SW. Simultaneously when the power is turned on,  
2. A check at the same time when the Front SW., And. Rear SW is in game mode or demo mode, which checks Error Code.  
3. Inside that PrizeLoader Front SW., Check the Rear SW., Please replace. | ERROR EVENT, STOP |
| 6. EE-Fn | PrizeLoader Front S/W or Motor Error n: Hole No.  
- This Error code is generated in case of a prize is not dispensed when a game succeeds and then the prize loader forwards in order to dispense the prize.  
Check and Change the motor on the back of PrizeLoader or the switch on PrizeLoader(Front S,w) | ERROR EVENT, STOP |
| 7. EE-Fn | PrizeLoader Rear S/W or Motor Error n: Hole No.  
- This Error code is generated when you cannot check the origin point due to motor faulty or origin switch faulty because origin switch should be detected by returning back to origin point after the prizeloader dispenses a prize in case of game success or PrizeLoader is located at origin point when you turn on the power.  
Check and change the motor connected to the rear side of Prizeloader or the switch on origin point Rear SW.) | ERROR EVENT, STOP |
| 8. EE-06 | Pusherbox Front/Back Moving Error, RARE SW ERROR  
- This Error code is generated in case of the bar of Pushbar succeeds but does not return back to Player direction after moving forward to the inner side.  
Check and Change the motor or the switch in the Pushbox. | ERROR EVENT, STOP |
| 9. EE-08 | Pusherbox Front/Back Moving Error, FRONT SW ERROR  
- This Error code is generated in case of the bar of pusherbox does not return back to Player side cause the bar should be at Player side after moving forward when you turn on the power or the machine is on operation.  
Check and Change the motor or the switch in the Pushbox. | ERROR EVENT, STOP |
| 10. EE-15 | TILT Error  
- This Error code is generated in case of the machine is shaked or shocked.  
The machine will operate normally after performing the Error Event for 10 secs. |   |
4. HOW TO REPLACE MAJOR COMPONENTS

4-1) REPLACING MAIN PCB

(1) Open the front door.
(2) Remove hand bolt (size: M4)
(3) Remove the connector between Main PCB, and then replace the Main PCB.
(4) Re-assemble the parts in reverse order.

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART NAME</th>
<th>SPEC.</th>
<th>CODE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>②</td>
<td>MAIN PCB ASS'Y</td>
<td></td>
<td>ASH0PCB003</td>
</tr>
</tbody>
</table>

4-2) REPLACING COIN SELECTOR

(1) Open the front door.
(2) Remove the connector.
(3) Remove eight bolts (size: M4) and nuts.
(4) Re-assemble the parts in reverse order.

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART NAME</th>
<th>SPEC.</th>
<th>CODE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>④</td>
<td>COIN SELECTOR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Reassemble them in reverse order and check performance of the game.
4-3) REPLACING PRIZE DISPENSER PART & Z MOVING PART

- PRIZE DISPENSER PART
  (1) Remove the ① prize dispenser cover then remove the ② prize dispenser.
  (2) Locate the prize dispenser parts inside.
  (3) Remove connector, then replace ④ motor or ⑤ micro switch.

- Z MOVING PART
  (1) Remove ③ Target Display Part to locate Z-Moving part.
  (2) Remove the connector, then replace ⑥ motor or ⑦ Micro Switch.

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART NAME</th>
<th>SPEC.</th>
<th>CODE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>④</td>
<td>DC MOTOR</td>
<td>KWC-KD1 3429 095 (1:25)</td>
<td>MZZZ0MOT063</td>
</tr>
<tr>
<td>⑤</td>
<td>MICRO SWITCH</td>
<td>GSMV1651A2</td>
<td>MELE0MIC021</td>
</tr>
<tr>
<td>⑥</td>
<td>MOTOR</td>
<td>KWA 0255 IMF 04</td>
<td>MWICOPAR025</td>
</tr>
<tr>
<td>⑦</td>
<td>MICRO SWITCH</td>
<td>SSM3142</td>
<td>MELE0MIC003</td>
</tr>
</tbody>
</table>

* Reassemble them in reverse order and check performance of the game.
5. TROUBLESHOOTING

5-1. IN CASE OF POWER FAILURE

[CHECK]
1. Connection AC CORD
2. FUSE (250V, 2A)
3. OPEN/SHORT TESTER
4. AC SW
5. Connection AC TERMINAL BLOCK
6. INPUT VOLTAGE TESTER: AC 110V or 220V

Normal

Abnormal

1. Connection & A measure
2. Displacement NOISE FILTER

SMPS Change

5-2. MOTOR ERROR

MOTOR / KGB-154 613081
STEPPING MOTOR / 4556Q-08576S

Abnormal

MOTOR ASS’Y Change

[CHECK]
1. Assemble appearance of
   MOTOR ASS’Y
2. MOTOR ASS’Y Wiring connection
3. MAIN PCB Wiring connection

Normal

MAIN PCB ASS’Y Change
5-3. MICRO SWITCH ERROR

[CHECK]
1. Assemble appearance of MICRO SWITCH
2. MICRO SWITCH Wiring connection
3. MAIN PCB Wiring connection

*Common: Check the input voltage, check wiring
5-4. COIN SELECTOR ERROR

- COIN SELECTOR
  - Normal
  - Abnormal
    - [CHECK]
      1. COIN SELECTOR internal and external conditions
      2. Connectors
      3. DC Voltage: 12V
      4. Coin signal ON / OFF

- MAIN PCB ASS'Y
  - Normal
  - Abnormal
    - [CHECK]
      1. MAIN PCB ASS'Y appearance
      2. Power status ON(RED) Blinks

- COIN SELECTOR Change
- SMPS (12V, 5V)
  - [CHECK]
    1. Power status ON(GREEN)
    2. DC voltage: 12V, 5V

- MAIN PCB ASS'Y Change
- SMPS Change

+ Common: Check the input voltage, check wiring
5-5. SOUND ERROR

VOLUME PCB ASS'Y

[CHECK]
1. VOLUME appearance
2. VOLUME Control
3. VOLUME value measurement tester (resistance)

[CHECK]
1. MAIN PCB ASS'Y appearance
2. Power status ON(RED) Blinking
3. AUDIO Wiring connection

[CHECK]
1. SPEAKER appearance
2. SPEAKER Wiring connection

*Common: Check the input voltage, check wiring
5-6. BUTTON & COUNTER ERROR

SET UP (BUTTON, COUNTER)

BUTTON (PLAY, SERVICE)
- Abnormal
  - [CHECK]
    1. Appearance
    2. PIN Wiring
    3. SW ON / OFF testing (tester)
  - BUTTON Change

COUNTER
- Abnormal
  - [CHECK]
    1. Appearance
    2. PIN Wiring
    3. Is the signal entering at DC 12V
  - COUNTER Change

MAIN PCB ASS’Y
- Abnormal
  - [CHECK]
    1. MAIN PCB ASS’Y appearance
    2. Power status ON(RED), Blinking
  - MAIN PCB ASS’Y Change

SMPS (12V, 5V)
- [CHECK]
  1. Power status ON(GREEN)
  2. DC voltage: 12V, 5V
  - SMPS Change

*Common: Check the input voltage, check wiring
5-7. SETUP LCD PCB ERROR

- SETUP LCD PCB ASS'Y
  - Abnormal
    - [CHECK]
      1. SETUP LCD PCB appearance
      2. CONNECTOR Connection
      3. BUTTON Operation
      4. DC voltage : DC+5V

- MAIN PCB ASS'Y
  - [CHECK]
    1. MAIN PCB ASS'Y appearance
    2. Power status ON(RED), Blinking

- MAIN PCB ASS'Y Change

*Common: Check the input voltage, check wiring
5-8. UPPER SIDE LIGHT PCB & CREDIT FND, TIME FND ERROR

*Common: Check the input voltage, check wiring

FRONT LIGHT DECO PCB
CREDIT FND, TIME FND

Abnormal

UPPER SIDE LIGHT PCB

[CHECK]
1. UPPER SIDE LIGHT PCB appearance
2. Wiring connection

[CHECK]
1. CREDIT FND, TIME FND appearance
2. Wiring connection

Abnormal

UPPER SIDE LIGHT PCB Change

CREDIT FND, TIME FND Change

 MAIN PCB ASS’Y

[CHECK]
1. MAIN PCB ASS’Y appearance
2. Power status ON(RED)_Blinking

[CHECK]
1. Power status ON(GREEN)
2. DC voltage : 12V, 5V

Abnormal

SMPS (12V, 5V)

SMPS Change

MAIN PCB ASS’Y Change
6. EXPLODED VIEW

6-1. MAIN CABINET PART

<table>
<thead>
<tr>
<th>NO.</th>
<th>PART NAME</th>
<th>SPEC.</th>
<th>QUANTITY</th>
<th>CODE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>MAIN CABINET PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>BILLBOARD PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>TARGET DISPLAY PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>PRIZE GUIDE PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>PRIZE DISPENSER PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>6</td>
<td>BUTTON PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>7</td>
<td>SMPS PANEL PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>AC INPUT PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>COUNTER PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
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<tr>
<td>10</td>
<td>TILT CHECK PART</td>
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<td>1</td>
<td>-</td>
</tr>
<tr>
<td>11</td>
<td>GSM MODULE PART</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>12</td>
<td>BILL ACCEPT</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>13</td>
<td>COIN SELECTOR</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>14</td>
<td>FRONT DOOR GLASS</td>
<td>GLASS-8.0t</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>15</td>
<td>SIDE GLASS</td>
<td>GLASS-8.0t</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>NO.</td>
<td>PART NAME</td>
<td>SPEC.</td>
<td>QUANTITY</td>
<td>CODE NO.</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------</td>
<td>---------</td>
<td>----------</td>
<td>----------</td>
</tr>
<tr>
<td>1</td>
<td>RIBBON BILLBOARD ACRYL</td>
<td>ACRYL-5.0t</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>LED BAR ASS’Y</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>NO.</td>
<td>PART NAME</td>
<td>SPEC.</td>
<td>QUANTITY</td>
<td>CODE NO.</td>
</tr>
<tr>
<td>-----</td>
<td>----------------------------</td>
<td>-------------</td>
<td>----------</td>
<td>-----------------</td>
</tr>
<tr>
<td>1</td>
<td>MAIN BOARD PC COVER</td>
<td>PC-1.0lt</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>AC MOTOR IO PC COVER</td>
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<td>6</td>
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6-4. PRIZE DISPENSER PART

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[ PRIZE DISPENSER PART ]

[ Z MOVING PART ]

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6-5. BUTTON PART

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6-6. SMPS PANEL PART

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6-7. GSM MODULE PART

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6-8. AC INPUT PART

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6-9. COUNTER PART

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