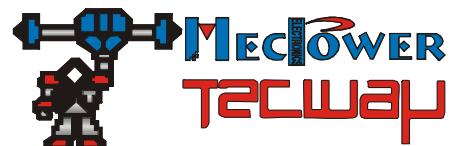


Mini Kiddie Sub Manual



To avoid in normal operate, please read this operation manual before install.

Please keep this manual for read.



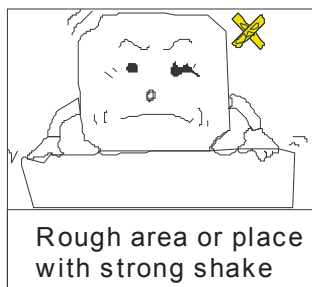
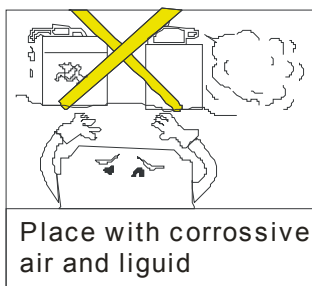
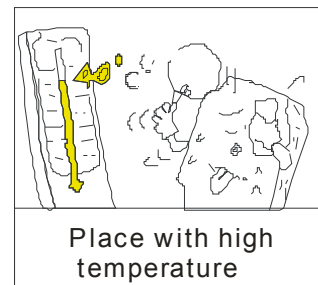
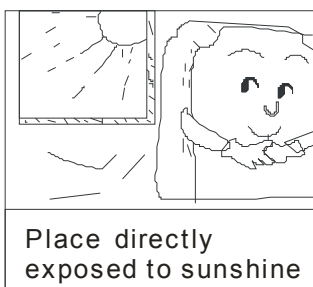
Safety Attentions

- 1) Certain part of the game is with high voltage. Adjust the game by technician. Do not open the game door unless maintenance or parts replacement is required.
- 2) Please switch off the power before checking and maintenance.
- 3) Please switch off the power before opening the game door.
- 4) Fire extinguisher equipment must be nearby the games.

Installation

The game must be located properly to avoid damages.

Improper Locations:



Notes of Usage

- 1) The voltage range of the game should be 105V ~ 115V/215V ~ 225V.
The proper voltage should be 110V/220V. The specific voltage accords to the date plate on the back door of the game.
- 2) The plug must be plugged tightly but keep the power cords not be too tight.
- 3) Please properly adjust the coin mech and the game settings when use at the first time.
- 4) Please regularly check all the functions of the game when operate.

Notes of Maintenance

- 1) Be sure to check and maintance the game regularly.
- 2) Switch off the power before replacing the parts of the game.
- 3) The parts for replacement should be the same model as the old one.
- 4) Please check the connection and voltage output after replacing the power supply.
- 5) The voltage of the PCB should be 5.1V ~ 5.4V.
- 6) Check whether the game has creepage and the voltage before repairing the PCB

Notes of Clean

- 1) Please use clean and soft cloth to clean the game.
- 2) Prevent damaging the surface of the game, please do not use the following cleanser:
 - Alterative Cleanser;
 - Acidic Cleanser;
 - Insecticide, sterilized water, alcohol or other chemical cleanser.

Notes of Moving and Shipping

- 1) Properly disassemble the game for necessary moving and shipping.
- 2) Prevent the game from hitting or being attrite during movement.
- 3) Protecting the case when move the game.

TECHNICAL PARAMETERS

Voltage: AC 220V/110V (50/60HZ)

Max. current: 3A/6A

(Note: The proper voltage and current used accords to the nameplate at the back door of the game.)

Max. power: 450W

Power (standby mode): 100W

Coin size: $\phi 21\text{mm}$ ~ $\phi 30\text{mm}$ (diameter)

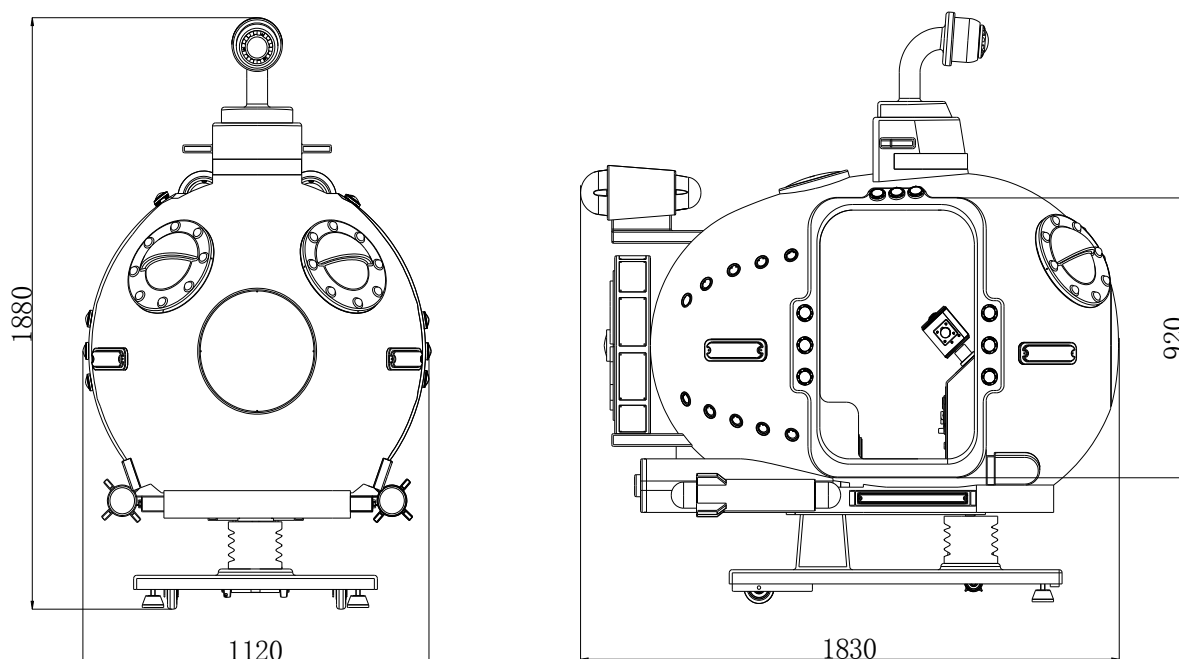
1.2mm ~ 2.5mm(thickness)

Capacity of coin box: about 2300 pcs with coin size $\phi 25\text{mm} \times 1.5\text{mm}$




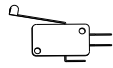

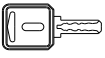
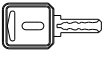


Location required: indoor use; temperature: $-5\sim 40^{\circ}\text{C}$; RH > 90%; no contact with

any corrosive, greasiness and dirt.

Dimensions: L1830mm*D1120mm*H1880mm



Parts & Accessories

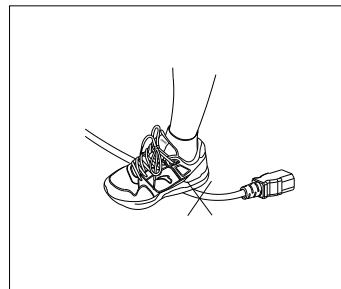
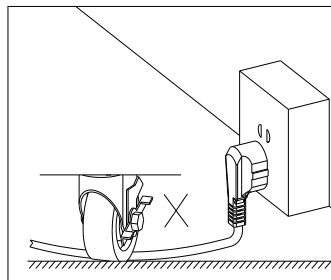
#	DRAWING	NAME	MODEL/SPEC.	QTY
1		LED light	green	2
2		LED light		5
3		7-color LED light		5
4		micro switch		2
5		pliers		1
6		key	1285 #	2
7		key	1396 #	2
8		power cord		1
9		manual		1

CHECK THE CONNECTION

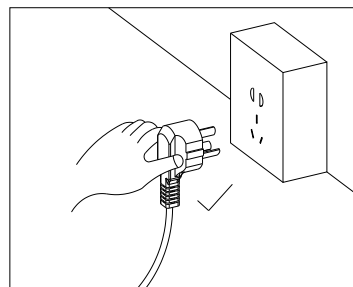
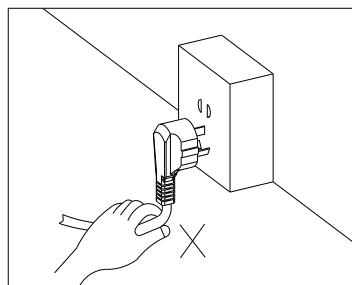
1. Check if the inner structure of the game is loose caused by transportation or the terminals drop.
2. Check if the game is grounded.
3. Check if the resistance of the GNDs is more than 100 megohm.
4. Adjust the coin mech before operation.
5. Connect the power cord.

Attentions:

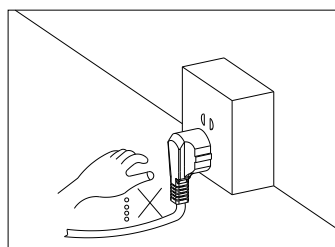
- a) Please make sure the power cord is not pressed by wheel, foundation, etc. Otherwise, the wire will be damaged to cause short circuit, even fire. Do not use strong power to extend and wring the wires. Do not make the wire be near to the high temperature object. Properly put the wire to avoid any kicking or treading.



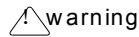
- b) Hold the plug to pull it out from the socket.



- c) Do not touch the plug with wet hands.



d) Make sure the voltage and fuse used are proper.



Before inputing the power, please check the resistance between input port and GND. Make sure the connection is proper.

Connect the power:

1. Confirm the value of voltage input is same as the one stated on the nameplate on the back of the game.
2. Swith on the power switch.
3. Properly adjusted the coin mech and confirm it can work properly.
4. Check and confirm all the flash lights and monitor can work properly.
5. Enter into the setting menu to adjust the game setting (adjust the no. of game per game, game time, etc...)
6. Test the game and confirm it can work properly.
7. Check and confirm the sound is ok.

CHECK BEFORE OPERATION

1. Confirm the power cord is properly plugged and without any damages.
2. Confirm the game is properly fixed.
3. Confirm the cabinet of game is without damages and burrs.
4. Confirm the surface of game is clean and with proper marks.

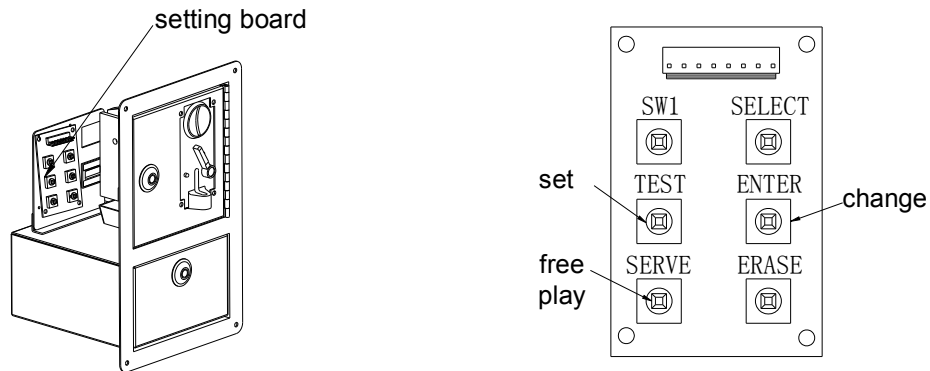
DAILY OPERATION

Please properly refer to the instructions above to check the game before operation.

After operation, please collect the coins and keep record of the coin meter.

GAME SETTINGS

Button setting



TEST/ setting button: Enter into setting menu or move to next item.

SELECT/ select button: Choose the setting item.

ENTER/ revise button: Revise setting item.

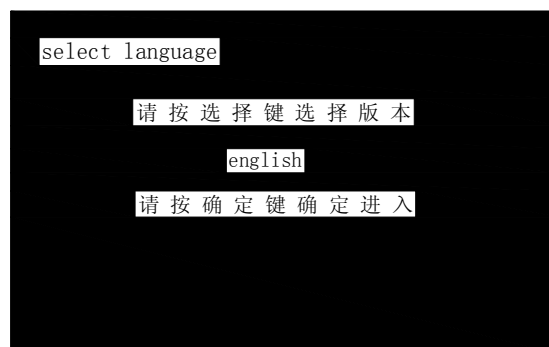
SERVE/ free button: For free play.

Setting mode

Operation mode: press the "TEST" button on the panel, enter into the menu, press "SELECT" button, select the revise item, press "ENTER" button, change game content.

Setting instruction

1) Language setting:



This menu can choose language. English or Chinese.

2) Parameter setting:



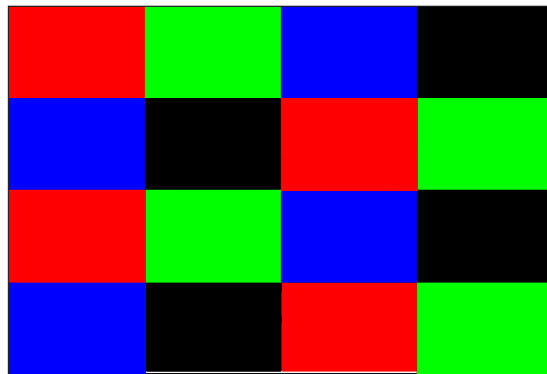
Setting instruction:

60 seconds: it is the time for one game. If setting for 60 seconds, then the play time is 60 seconds.

1 coin/1 play: it is how many coins for one game. If setting for "1 coin/1 play", then one coin for one game.

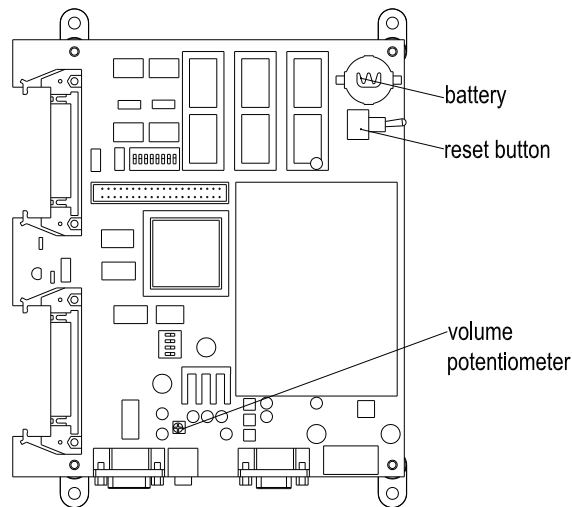
Volume: it is the volume for the game. Date big for the volume is big.

1) Monitor testing



It is to check the monitor work properly or not. If monitor appear with no white color, the monitor is have problem.

Adjust the main board:



Descriptions:

Reset button: press this button to clear the data of coin saved in main board and reset the game settings to default settings.

Volume potentiometer: twist this potentiometer with screw driver. Twist clockwise to increase the volume, counterclockwise to decrease the volume.

Battery: this battery have memory function that will provide power to save the data of coin and game settings in main board when the power is cut off. If the data can not be save when the power is cut off, please replace the battery.

CHECK AND MAINTENANCE

Daily check

ITEM	DESCRIPTIONS
Coin mech	Check if the coin mech can work properly.
Handle	Check if the handle can control the direction.
Shooting Button	Check if the button can work properly.
Movement	Check if the game can move properly.
Sound	Check if the volume is proper.
Display	Check if the display can work properly.
Temperature, humidity	Check if the temperature and humidity is proper.

Daily maintenance:

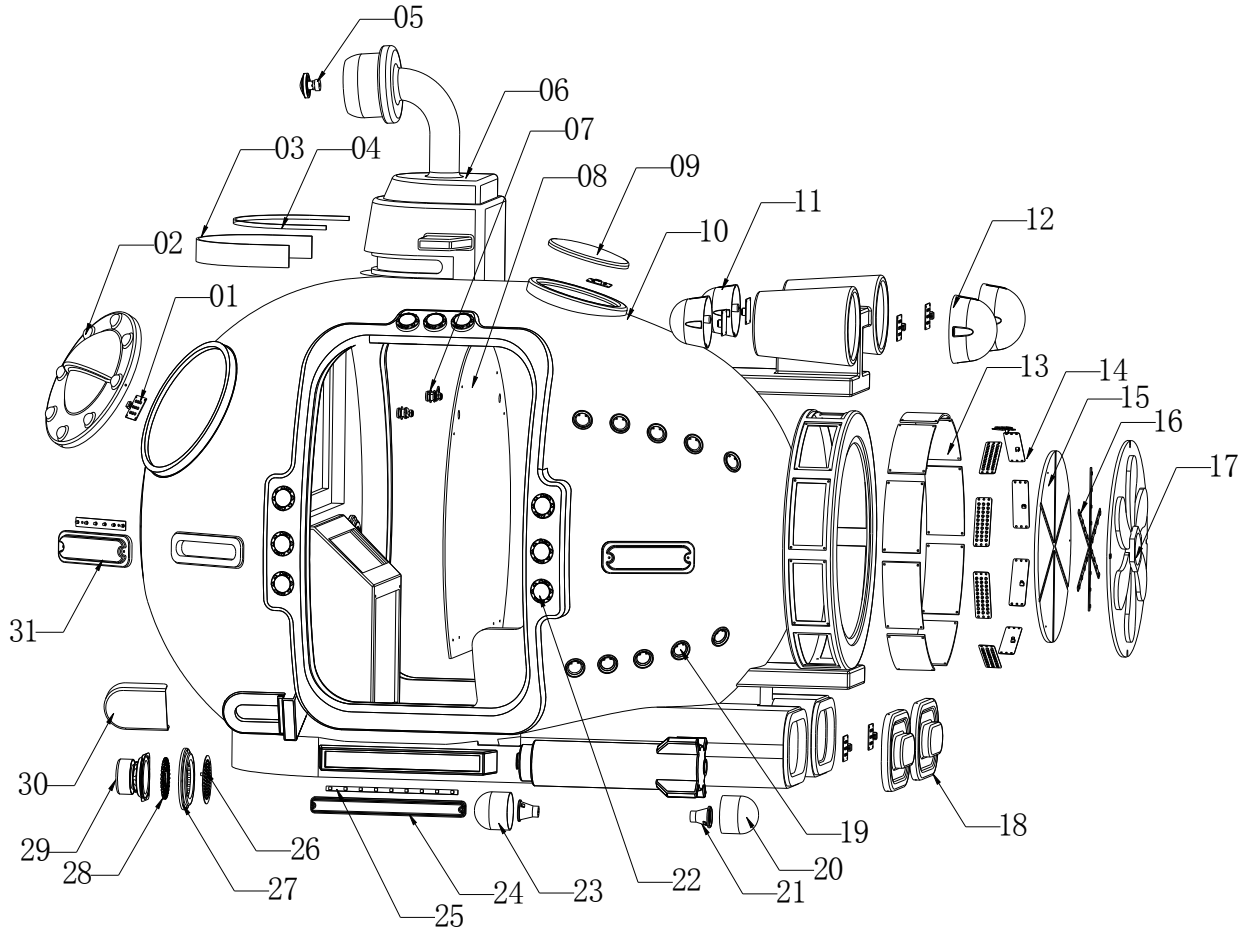
ITEM	DESCRIPTIONS
Cabinet	Clean the cabinet with water and cleaning paper.
Monitor Acrylic	Clean the acrylic with water and cleaning paper.
PCB	Clean the PCB with small brush.

TROUBLESHOOTING

PROBLEM	CAUSES	SOLUTIONS
Can't insert coin.	No sample coin.	Insert sample coin into the coin mech.
	Sensitivity for coin getting through the coin mech was setting too high.	Adjust the coin mech.
	Coin mech is bad.	Replace the coin mech.
Chasing lights do not light up.	Bad connection of the lights.	Re-connect the wires of the lights.
	Light is bad.	Replace the light.
	Drive board for the light is bad.	Repair or replace the drive board.
The motor does not work.	Bad connection of the motor.	Re-connect the wires of the motor.
	Transducer is bad.	Replace the transducer.
	Control board for the transducer is bad.	Replace the solid relay control board.
Direction control has problem.	Bad connection of the direction switch.	Re-connection the wires of switch.
	Direction switch is bad.	Replace the micro switch.
No vibration of the handle.	Bad connection of the vibration solenoid.	Re-connect the wire of solenoid.
	Solenoid is bad.	Replace the solenoid.
Invalid for the button.	Bad connection of the switch.	Re-connect the wire of switch.
	Switch is bad.	Replace the switch.
No Display.	The power cord for the monitor is loose.	
	The VGA wire is not connected.	
	Monitor is bad.	
	Main board is bad.	
No Sound.		
No movement.	No AC110V/220V voltage input.	Check the connection and 110V/220V input voltage.
	The fuse is burnt.	Replace the fuse.
	No output voltage of power supply.	Repair or replace the power supply.
	The output voltage of power supply is too low.	Adjust the output voltage of power supply to 5.2V.
	The main board is bad.	Replace the main board.

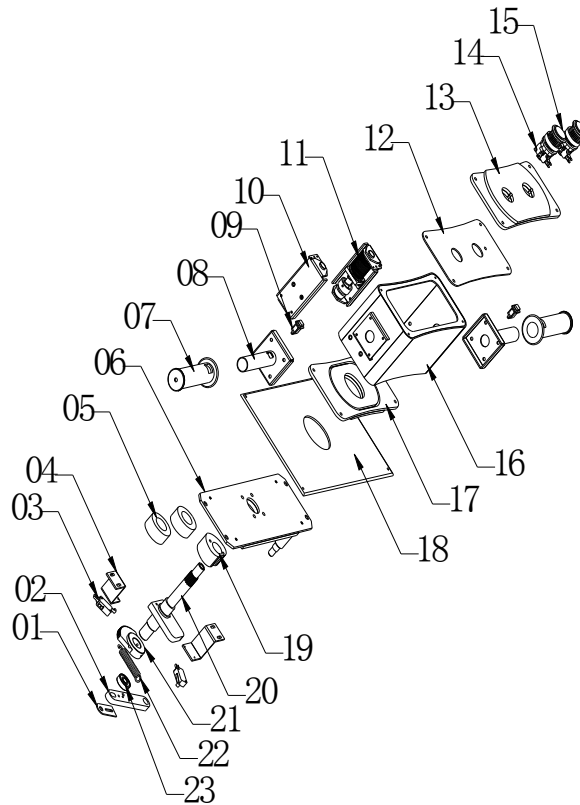
Part Drawing and Parts List

12.1 Body Assembly Drawing and Part List



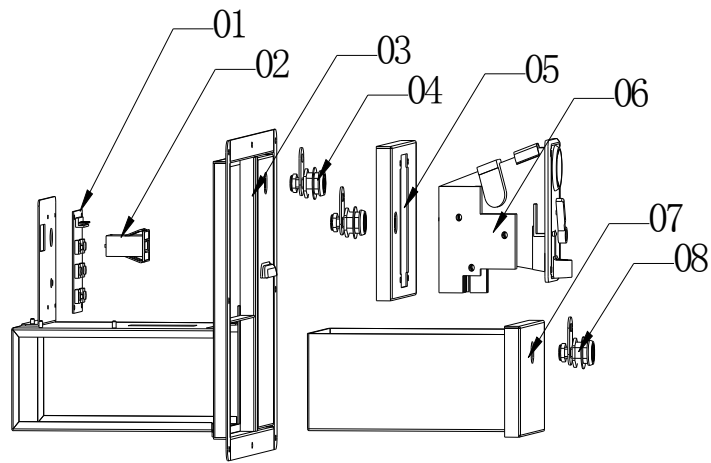
NO.	Item/No.	Quan.	NO.	Item/No.	Quan.
01	Flashing light board	9	18	Adjustage back light cover	2
02	Eye light cover	2	19	Colored light	18
03	Top front light board	1	20	Shooting back light cover	2
04	Colorful LED strip	1.5m	21	Colored LED light	20
05	Colored Lamp (Blue80*42)	1	22	Colored light(Red,Green,Blue)	18
06	Top decoration	1	23	Shooting front light cover	2
07	Lock 1285	2	24	Side cover A	2
08	Door Arylic	1	25	Flashing strip	0.6m
09	Top light cover	1	26	Speaker Net	2
10	Fiberglass body	1	27	Speaker Arylic	2
11	Up shoot small cover	1	28	Speaker light board	2
12	Up shshoot big cover	1	29	4.5 Speaker	2
13	Lightbarrier	9	30	Front light cover	2
14	Square light board	9	31	Side cover B	2
15	Back light fixing board	9			
16	Colored lamp strip	1m			
17	Back cover	1			

12.2 Cabinet Part Drawing & Part List



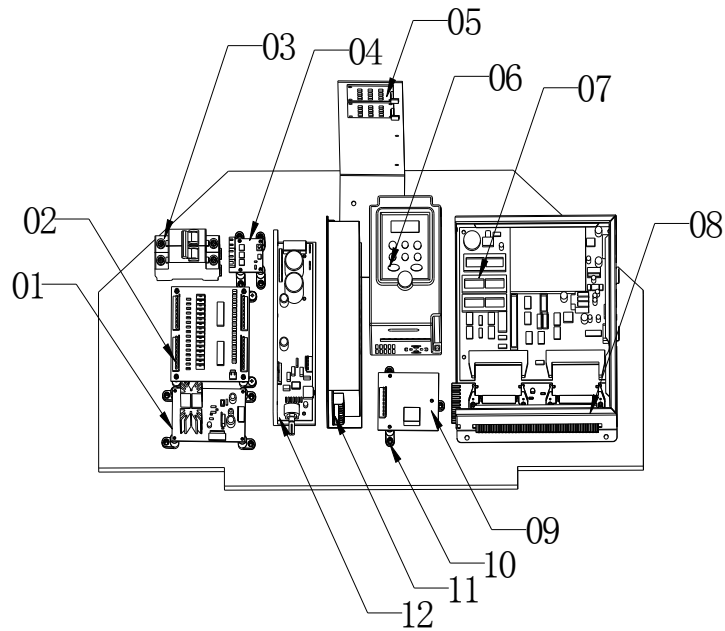
NO.	Item/No.	Quan.	NO.	Item/No.	Quan.
01	Mediation board	1	13	Front light board	1
02	Rebound Arm	1	14	Micro Switch	2
03	Micro Switch	2	15	Round light button(Green)	2
04	Micro Switch fitting	2	16	Frame welding assy.	1
05	Shock limit set	2	17	Back light board	1
06	Back board weld Assy.	1	18	Cabinet cover	1
07	Handle set	2	19	Rebound assy.	1
08	Handle weld assy.	2	20	Main shaft	1
09	Red button	2	21	Fan gear	1
10	Solenoid fitting frame	2	22	Reset spring	1
11	Solenoid Assy.	2	23	Bearing	1

12.3 Coin Door Drawing & Part List



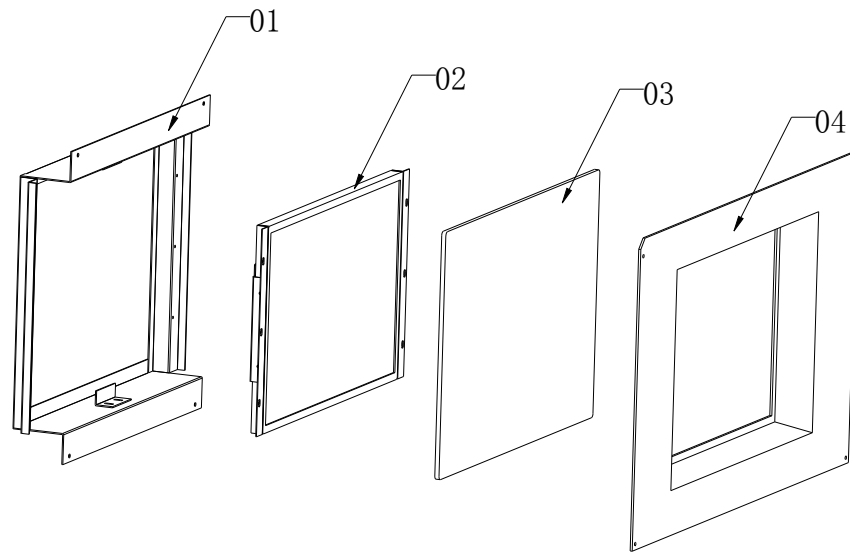
NO.	Item/No.	Quan.	NO.	Item/No.	Quan.
01	Setting Board	1	06	Analog Type coin selector	1
02	Stopwatch	1	07	Coin box	1
03	Coin door Assy.	1	08	Lock 1396	1
04	Lock 1285	2			
05	Coin Door	1			

12.4 PCB Assy.Drawing & Part List



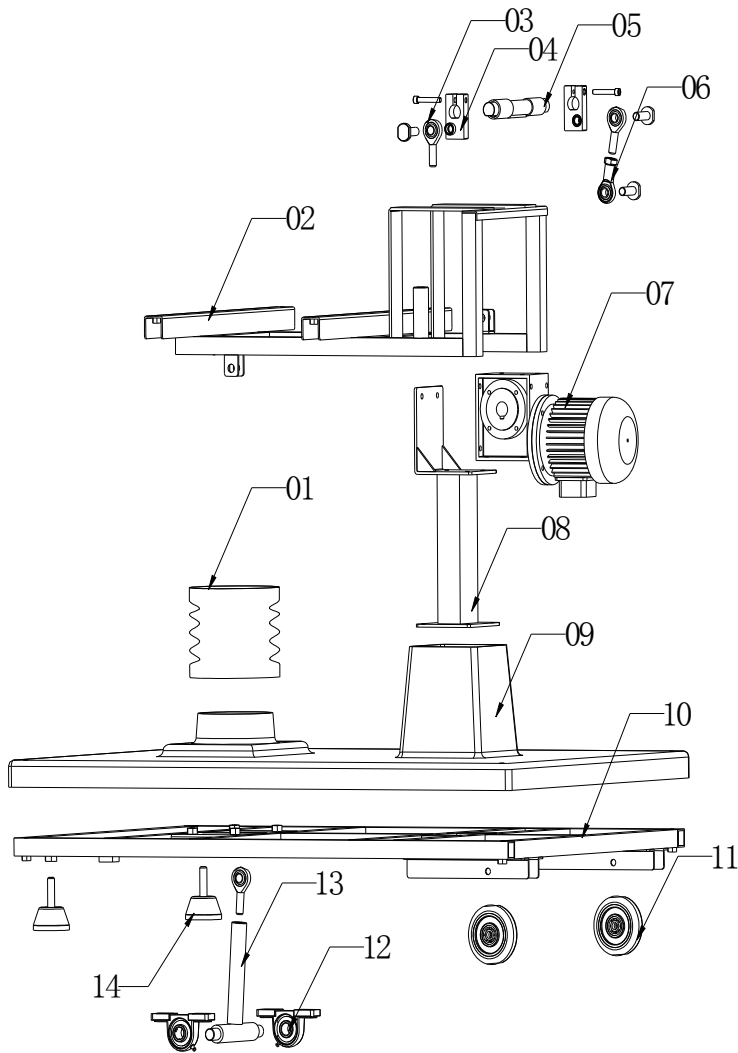
NO.	Item/No.	Quan.	NO.	Item/No.	Quan.
01	DC motor drive board	1	09	Relay Control Board	1
02	LED drive board	1	10	PCB rubber feet	15
03	Leakage circuit breacker	1	11	Power Supply 12V11A 5V3A	1
04	RGB drive board	1	12	Amplifier Board	1
05	RGB light board	2			
06	Convertor	1			
07	Main Board #24	1			
08	Interface Board	1			

12.5 Monitor Assy.Drawing & Part List



NO.	Item/No.	Quan.	NO.	Item/No.	Quan.
01	19" Monitor Frame	1	04	Monitor Front Cover	1
02	19" Monitor	1			
03	Monitor Front Glass	1			

12.6 Chassis Assy.Drawing & Part List



NO.	Item/No.	Quan.	NO.	Item/No.	Quan.
01	Dust Cover	1	09	Chassis Fiberglass	1
02	Shaking Frame	1	10	Chassis	1
03	Shaft Rod	3	11	Feet Wheel	2
04	Eccentric block	2	12	Base Bearing	2
05	Motor Main shaft	1	13	Bearing supporting Rod	1
06	Bearing	1	14	Fitting Feet	2
07	Motor 220V370W	1			
08	Motor Supporting Frame	1			

SCHEMATIC DIAGRAM

