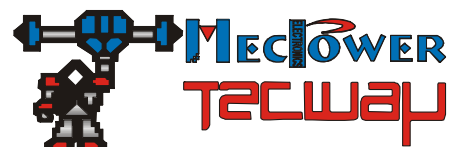To avoid innormal operate, please read this operation manual before install.

Please keep this manual for read.

Content

✧ Transportation, Installation, Method of transport and Attention

✧ Installation & Operation method

✧ Function adjust method

✧ Mainteance method

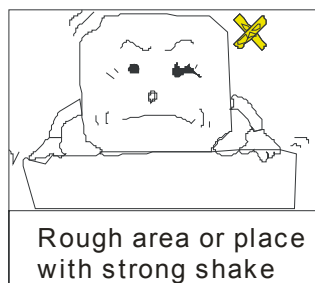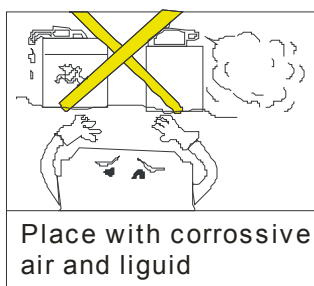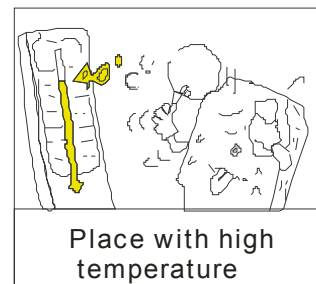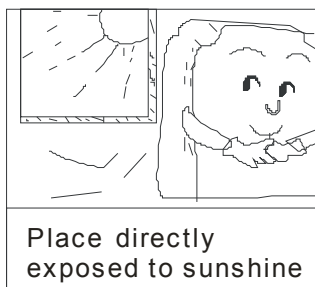✧ Trouble Shooting

✧ Schematic Diagram

✧ Wiring Connection

Safty 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.

Safty Attentions

The game must be located properly to avoid damages.

Improper Locations:

Place directly exposed to sunshine

Humid area

Place with high temperature

Place with corrossive air and liguid

Rough area or place with strong shake

Place with massive dust

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.
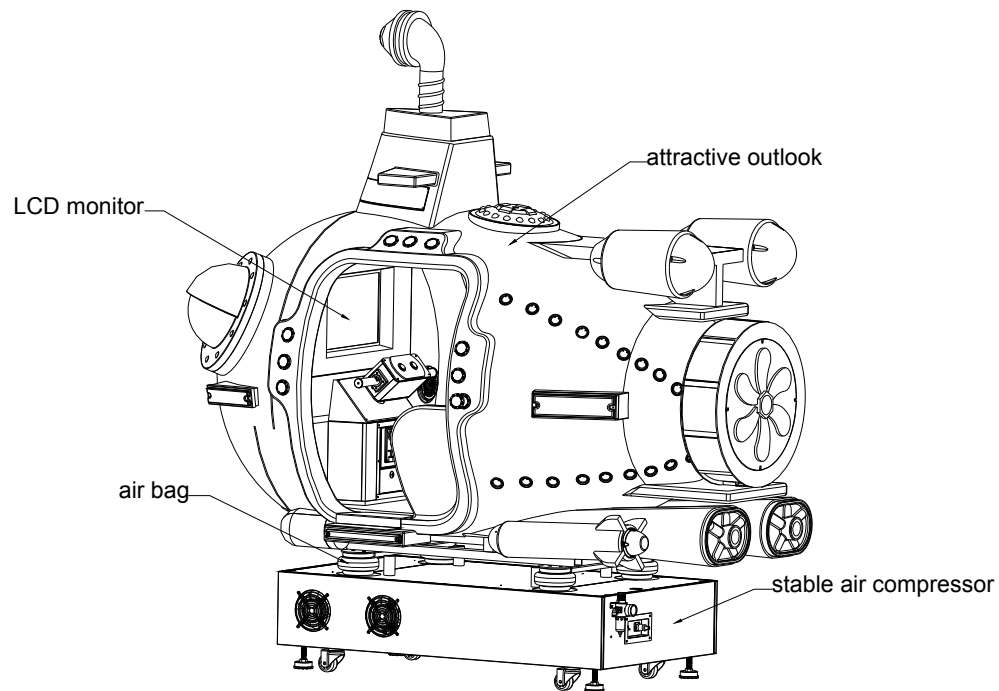
3) Protecting the case when move the game.

CONTENT

GAME INTRODUCTION

KIDDIE SUB is a game with crative outlook and interesting game specially designed for kids.

KIDDIE SUB is a game specially designed for kids, and do not without it in the playground.

Features:

Realistic, colorful outlook;

Integrated main board, high-speed processing CPU, stable proformance;

Hight quality and clear LCD.

Coin machine with high quality, is suitable for coins with various diameters.

Precise, stable, reliable;

With simple, exciting and funny game.

Income rate can adjust according to the real conditions.

Game Instruction

Playing Instructions:

Insert coin and turn the wheel to select mode according to the hins, press the green button to confirm.

Press the button of the wheel, to select at sea or seabed after games start, control the boat by turning the wheel, when enemy appear, aims and press the red button　of wheel to shot down.

button for low down the boat
button for raise the boat
shooting button

coin slot

START button
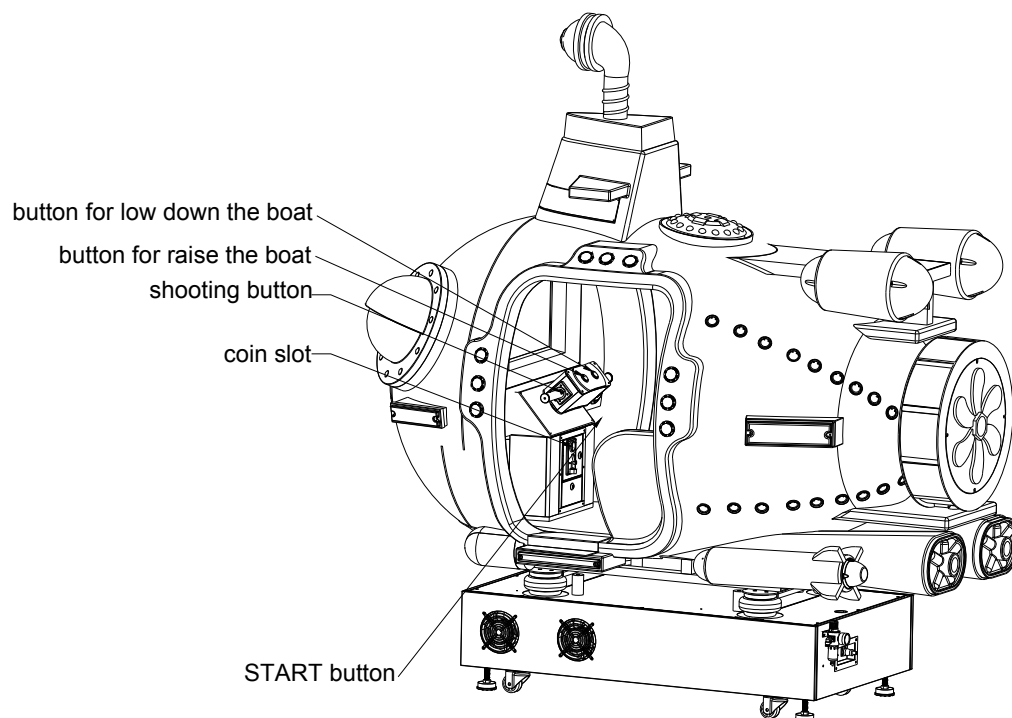
TECHNICAL PARAMETERS

Voltage：AC220V/110V（50/60HZ）

Max. current：10A/20A

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

Max. power：2200W

Coin size：φ21mm～φ30mm (diameter)
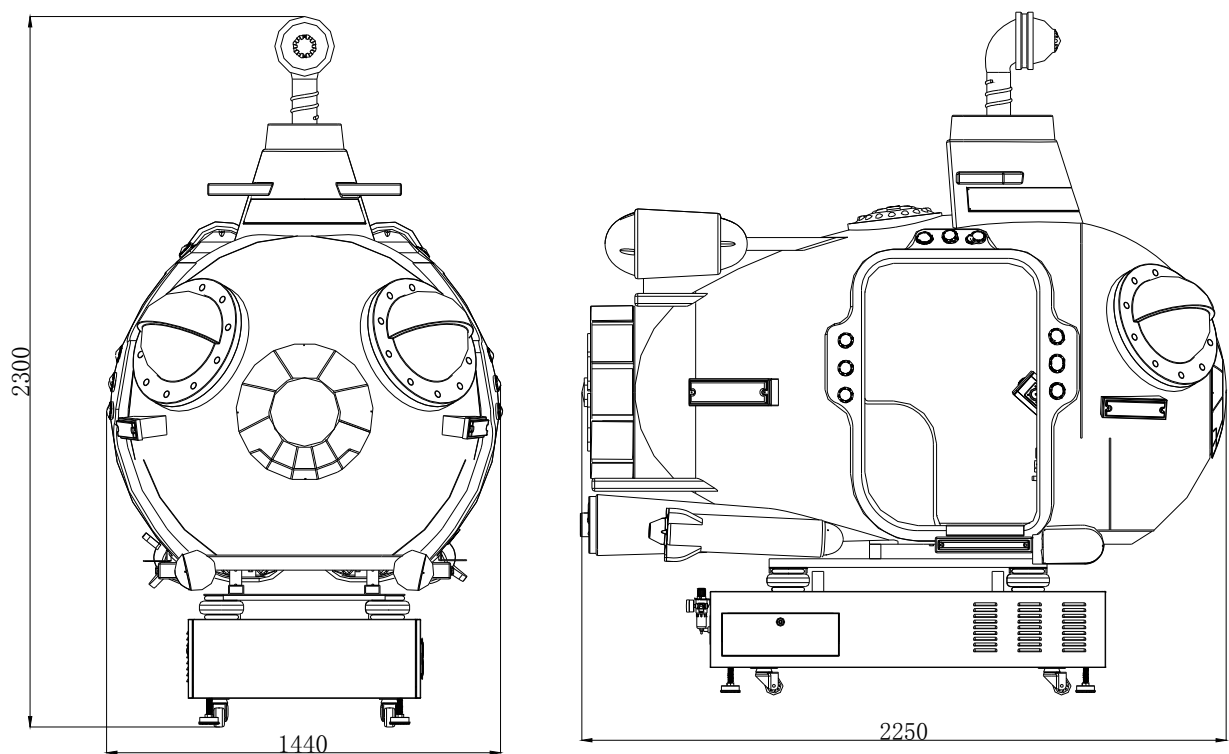
1.2mm～2.5mm(thickness)
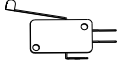
Capacity of coin box：φ25mm*1.5mm about 1200 pcs with coin size φ25mm*1.5mm

Location required: indoor use; temperature -5～40°C; no contact with any corrosive , greasiness and dirt.

Dimensions：L2250mm*W1440mm*H2300mm

Spare parts：

NO.	Picture	Name	Spe./Model	Quan.
1		Edison LED		5 pcs
2		Micro Switch		2 pcs
3		Key	1285＃	2 pcs
4		Key	1396＃	2 pcs
5		Power Line		1 pc
6		Manual	Book	1 set

Installation

When install for the first time pls according to below way。

Choose the install place

1) Install at which games have monitor for catery。

2) Pls make sure to leave enough space for the machine and ensure customers can play happily。
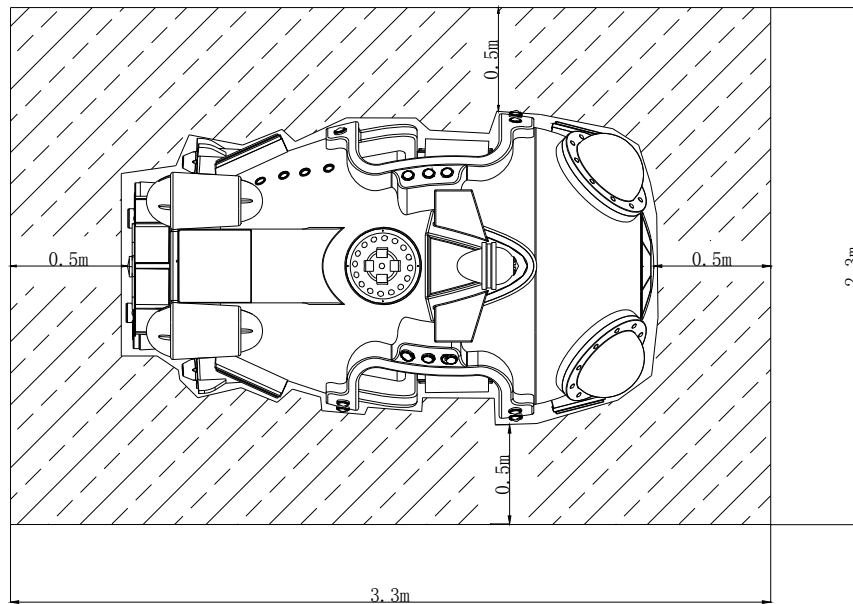
Attention: machine must be install in the flat ground。

Check the connection

Before power on pls check the power connection

1）Pls check the wire is loosen or not when moving。

2）Pls check the earth wire is connects to the earth。

3）Pls check the earth wire input resistance is over 100 OM。

4）Adjust the coin mech。

5）Connect the power line。

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.
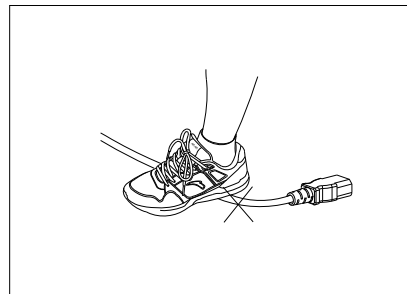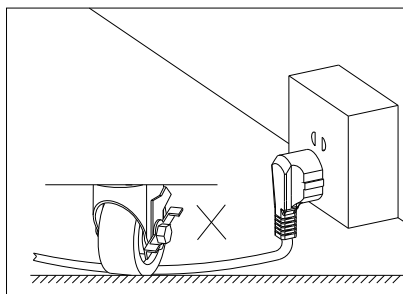
B Hold the plug to pull it out from the socket.

Do not touch the plug with wet hands
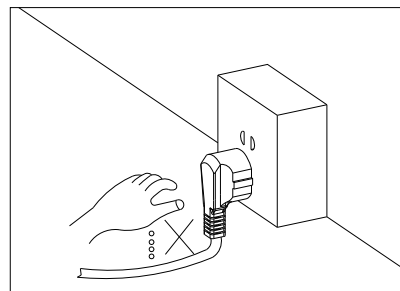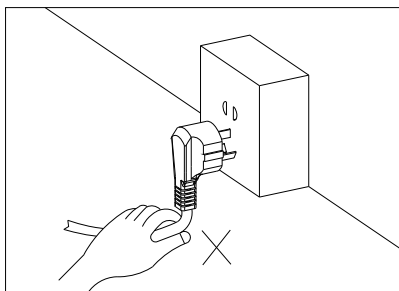
Power on

1) Make sure the voltage is same as the label.

2) After power on, press the power switch.

3) Insert coin to make sure coin mech is work properly.

4) Make sure monitor, lights are work properly.

5) Open the setting menu to set the content(coins, time, etc.)

6) Insert coin, make sure operation, shake for the machine work properly.

7) Check the sound work properly.

Check before operation

Check the machine before operation to avoid any improper operation.

Items:

1) Make sure the power cord have plug in.

2) Make sure the place for machine is correct.

3) Make sure no damage to the shell of the machine.

4) Make sure the machine is clean, label is correct.

Daily operation

Power on and operation

1) Power on the switch.

2) Make sure monitor work properly

3) Check and make sure voice is work properly.

4) Insert coin, make sure operation, shake for the machine work properly.

   Note: make sure all above work properly can put into operation.

Check before over.

1) Check monitor work properly.

2) Double check the coin,operation,shake; if do not work properly please solve according to the trouble shooting.

Coin, stopwatch

1) Power off then open the coin door to collect coins.

2) Mark the stopwatch.

Setting mode

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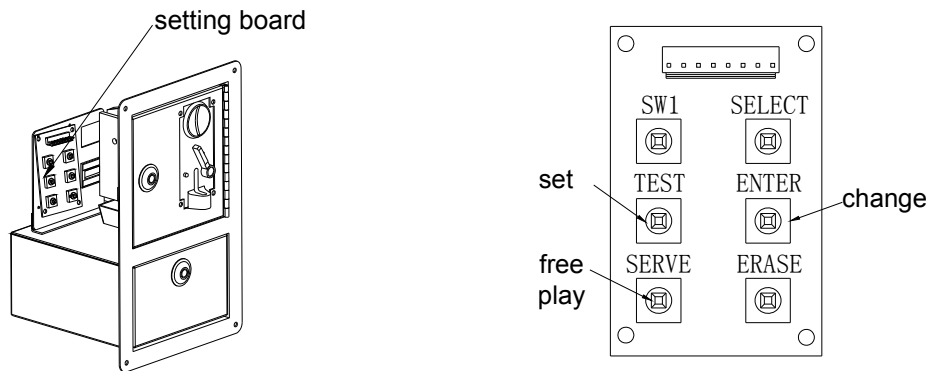
TEST/ setting button：　Enter into setting menu or move to next item.

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:
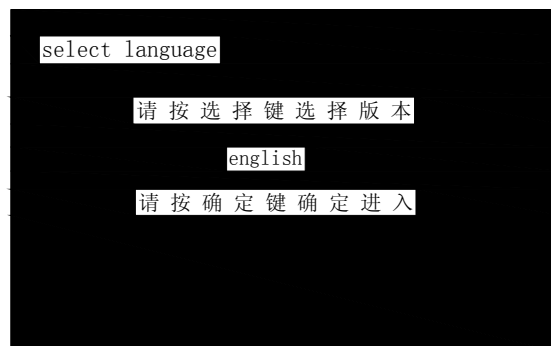
This menu can choose language. English or Chinese.

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.

Volumn: it is the volum for the game. Date big for the volum is big.

3) Monitor testing
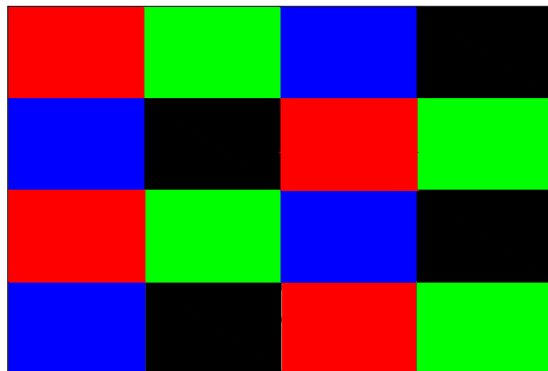
It is to check the monitor work properly or not. If monitor appear with no white
color, the monitor is have prolem.

Adjustment

Adjust the coin mech
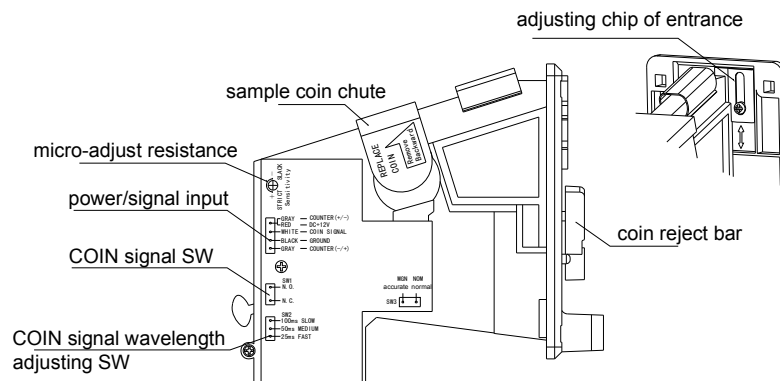
Descriptions:

Step 1: remove the plastic coin from the coin sample chute and put a proper coin in it.

Step 2: remove the screws on the back of coin entrance. Adjust the fix chip of back of coin entrance according to the diameter of coin you will use so that it will prevent the large coin blocking the coin mech.

Step 3: set the COIN   to "ON"

Note: when power on, set this button is for insert coin.

Step 4: set the pulse of COIN signal to "50MS".

Step 5: following the drawing to adjust the resistance for sensitivity of coin acceptance, turn clockwise for increasing and counterclockwise for decreasing.

Adjust the main board

Descriptions:
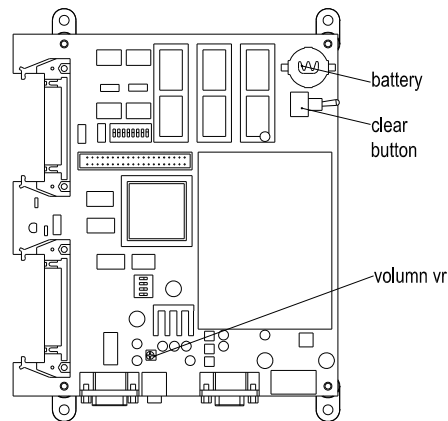
Adjustment

Clear the data: press clear key to clear the data of coin saved in the main board and the game settings will change to default setting.

Adjust the volume: twist the potentiometer with screw driver to adjust the volume. Twist clockwisely to increase the volume; counterclockwisely to decrease the volume.

Note: The battery is for power for main board to save the settings, data of coin when the location's power is off. If those data can not be saved when the location's power off, please replace the battery.

CHECK AND MAINTENANCE

Please check and maintain this machine by technician and follow the guidance to avoid any injury and damages.

Daily check

ITEM	DESCRIPTION
Coin mech	Check if the coin mech can work properly.
Directional lever	Check if the directional lever work properly.
Fire button	Check if the fire button work properly.
Shake	Check if the machine shake properly.
Sound	Check if the sound is proper
Screen	Check if the displayed color is proper.
Temperature, humidity	Check if the temperature and humidity is proper

Daily maintenance

ITEM	DESCRIPTION
Cabinet	Clean the cabinet
Monitor	Clean the monitor.
PCB	Clean the PCB with brush

TROUBLE SHOOTING

Please check the machine according to below form if any problem for the game, before you call service.

Trouble Shootings

| PROBLEM	CAUSES	SOLUTIONS
Can not insert coin	No set the sample coin	Set the sample coin
	coin throug the coin mech	
	Sensivitity setting high	Adjust the coin mech sensivitity
	Coin mech damage	change the coin mech
light damage	The wire of light block	Connect the light wire
	Light damage	Change the light
	Drive board damage	Repair or change the light drive board
Air compressor not work	The wire of air compressor	Connect the air compressor wire
	CAP damage	change the air compressor CAP
	Air compressor damage	change the air compressor
Airbag not work	Air Valve block	Connect the air valve wire
	Air valve damage	change the air valve
	Airbag damagge	change the airbag
Direction not control well	Direction wire block	Connect the direction wire
	Direction wire damage	Change the switch
Direction handle not shake	Shake solenoid block	Connect the shake solenoid wire
	Solenoid damage	Change the solenoid
Button nullity	Switch wire block	Connect the switch wire
	Switch damage	Change the switch
No monitor	Power cord loosen	Plug the power wire
	Signal wire not connect	Connect the signal wire
	Monitor damage	Change the monitor
	Main board damage	Change the main board
No sound	The speaker wire loosen	Connect the speaker wire
	Volumne is small	Enter into the menu to setting the volume
	Speaker damage	Change the speaker
machine no move	NO AC110V/220V input voltage	Check the power wire
	Fuse damage	Check the wire to exclude short circuit
	No output voltage for power supply	Repair or change the power supply
	Main board damage	Change the main board

PARTS DRAWING AND PARTS LIST

Body Assembly and parts list
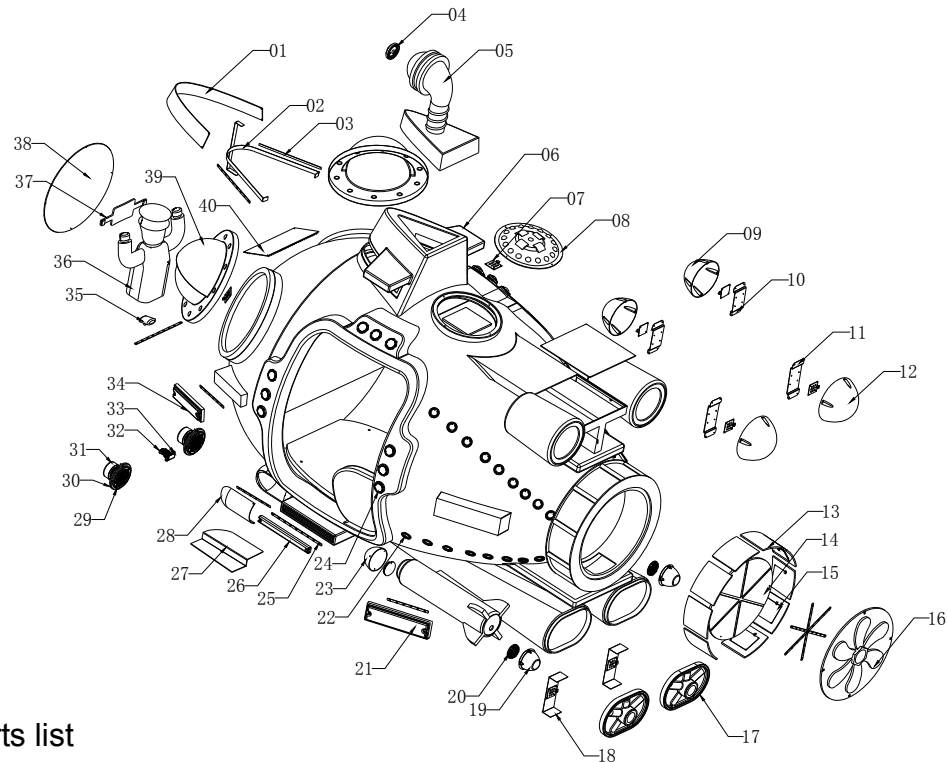
Body parts list

NO.	name / model#	QTY
01	top strip lens	1
02	solder assy. for headlight bracket	1
03	light strip	1.5m
04	LED light（blue, 80*42）	1
05	top decoration	1
06	main body	1
07	small light board	11
08	top light cover	1
09	small lens for up transmitter	2
10	bracket for small light on up transmitter	2
11	bracket for big light on up transmitter	2
12	big lens for up transmitter	2
13	propeller light harrier	9
14	holder for wires for light	1
15	square light board	9
16	rear light lens	1
17	rear light lens for jet	2
18	holder for round rear light	2
19	rear light lens for cannon	2
20	flash plate (red)	2
21	side lens B	2
22	LED light	36

NO.	name / model#	QTY
23	headlight lens for cannon	2
24	light (red, green, blue)	18
25	blue light strip	2m
26	side lens A	2
27	pedal	2
28	headligh lens for cannon	2
29	acrylic for speaker	4
30	light board for speaker	4
31	4.5″ speaker	4
32	micro switch	1
33	button sw	1
34	side lens C	2
35	12V flash light	1
36	fiberglass captain	1
37	acrylic sight glass	1
38	front blocker	1
39	lens for light eye	2
40	play tips board	1

Control Assembly and parts list
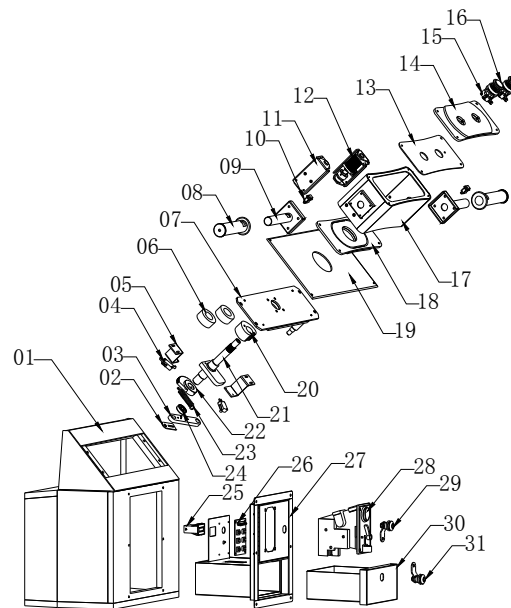
NO.	name / model#	QTY
01	control panel	1
02	setting board	1
03	springback arm	1
04	micro switch with wheel	2
05	holder for micro sw	2
06	shockproof sleeve	2
07	solder assy. for back board	1
08	handle sleeve	2
09	solder assy. for handle	2
10	red button	2
11	solenoid holder	2
12	solenoid assy.	2
13	front light barrier	1
14	front light chip	1
15	micro switch w/o chip	2
16	green round button w/ light	2
17	solder assy. for chassis	1

NO.	name / model#	QTY
18	rear light chip	1
19	cover for control panel	1
20	power piece for springback	1
21	main axis	1
22	sector gear	1
23	spring for replacing	1
24	shaft	1
25	meter	1
26	setting board	1
27	frame for coin mech	1
28	coin mech	1
29	lock 1285	2
30	coin box	1
31	lock 1396	1

PCB Assembly and part list
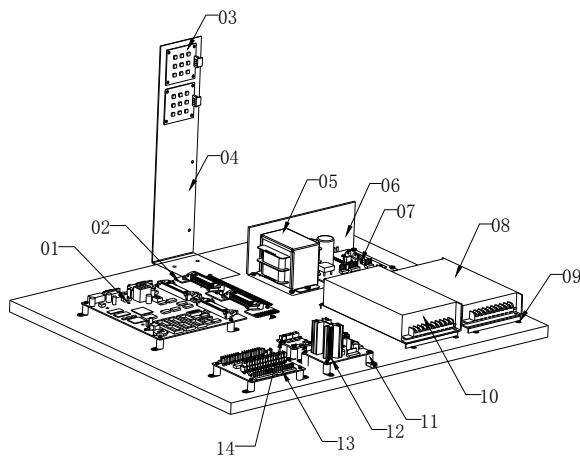
NO.	name / model#	QTY
01	main board #24	1
02	I/O board	1
03	LED light board	2
04	holder board for lights	1
05	transformer 220V/18V 80W	1
06	holder for amplifier	1
07	amplifier	1
08	power board 24V	1

NO.	name / model#	QTY
09	holder for power supply	2
10	power supply 5V3A 12V 11A	1
11	PCB plastic port	22
12	DC motor drive board	1
13	LED light drive board	1
14	3-color light board	2

Monitor Assembly and part list
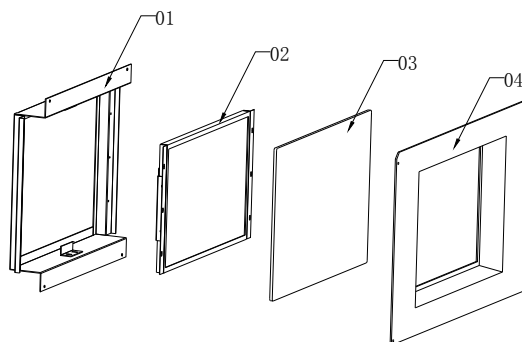
NO.	name / model#	QTY
01	19″ monitor frame	1
02	19″ monitor	1
03	glass for monitor	1

NO.	name / model#	QTY
04	front cover for monitor	1

Frame Assembly and part list
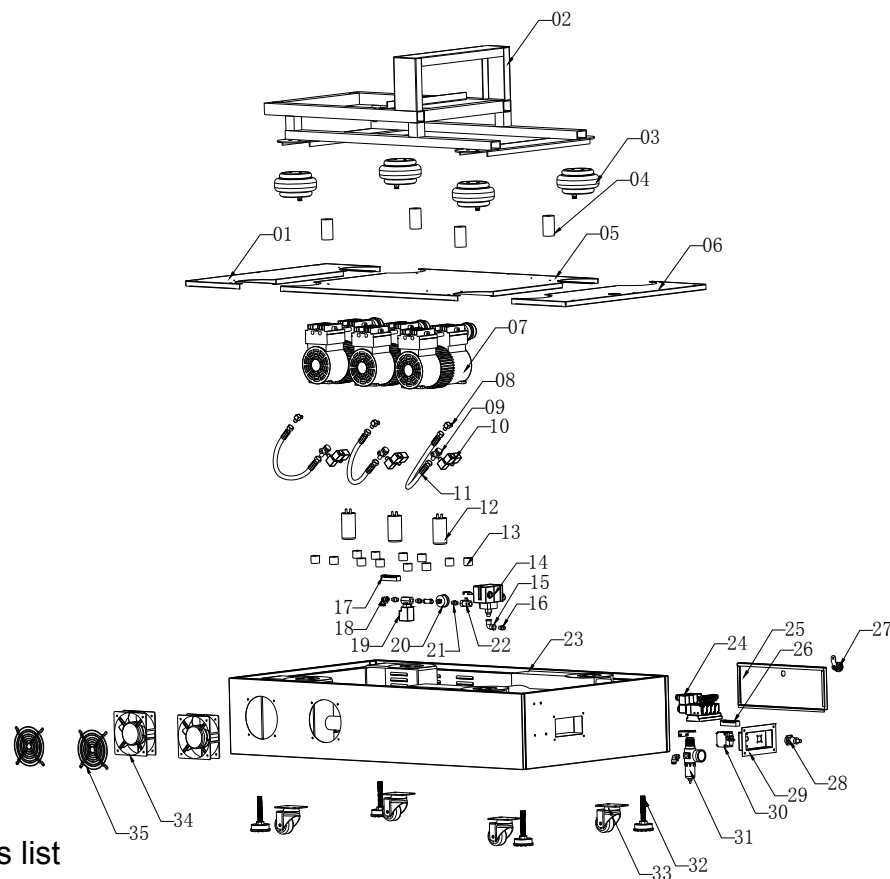
Frame parts list

NO.	name / model#	QTY
01	chassis cover（front）	1
02	supporting assy.	1
03	air bag	4
04	holder	4
05	chassis cover（middle）	1
06	chassis cover（back）	1
07	air compressor	3
08	pipe joint	3
09	pipe joint (1 to 3)	3
10	valve A	3
11	pipe with connector	3
12	AC capacity	3
13	shockproof rubber	12
14	relief valve	1
15	pipe joint 1	2
16	pipe side joint 1	4
17	12P connector	2
18	pipe joint 2	7
19	main valve	1

NO.	name / model#	QTY
20	barometer	1
21	hand valve	1
22	frame assy.	1
23	valve	4
24	service door	1
25	lock 1285	1
26	aviation plug	1
27	socket	1
28	safe sw	1
29	air circuit filter	1
30	foundation	4
31	wheel	4
32	fan	2
33	fan mesh	2

Schematic Diagram