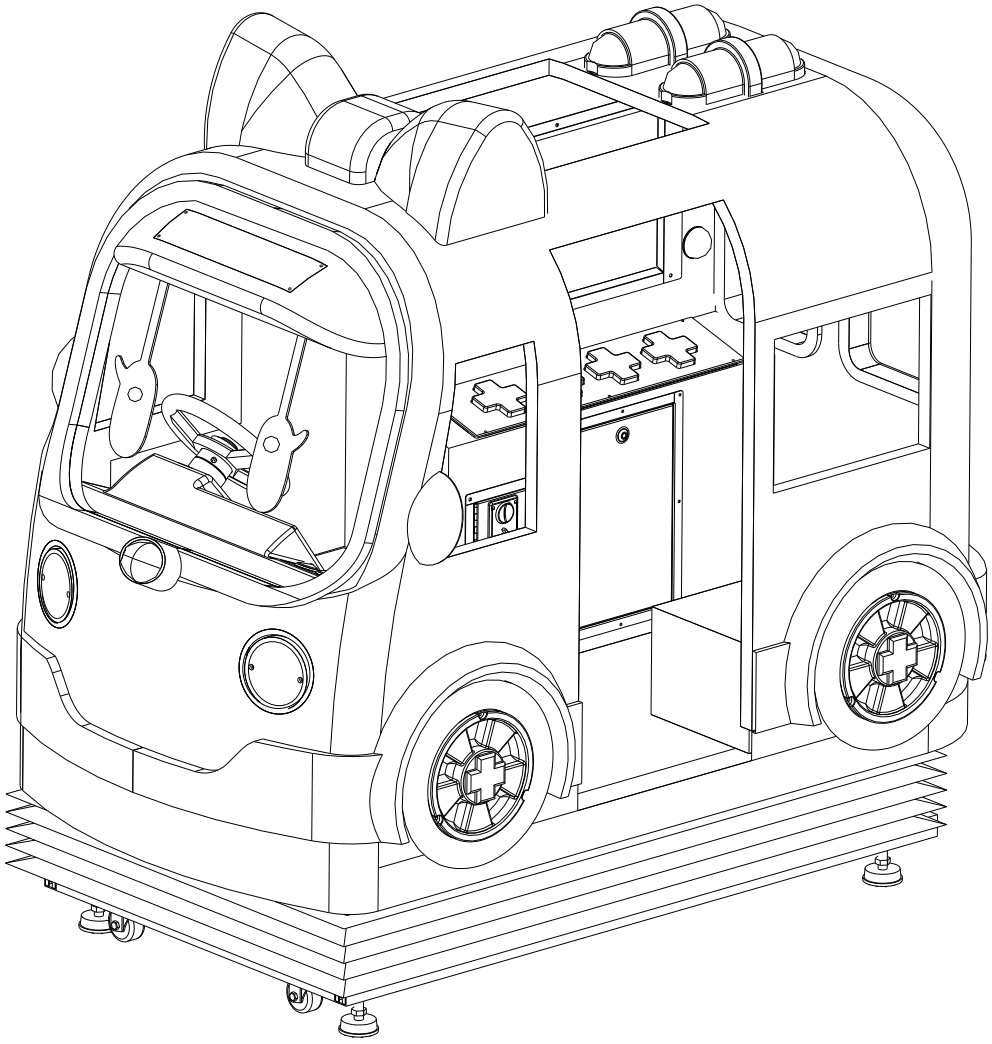

Amber Bus manual

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In order to prevent any problems arising from improper operation, you must carefully read this manual before installation and use machine, pay attention to the items marked in this book.

Please keep this book in good condition for future reference.

Summary

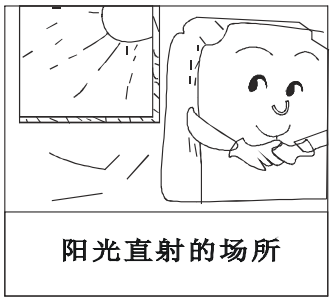
- ✧ Transportation, installation, movement
- ✧ How to operate
- ✧ How to adjust
- ✧ Maintenance
- ✧ Troubleshooting
- ✧ Parts list
- ✧ Circuit diagram

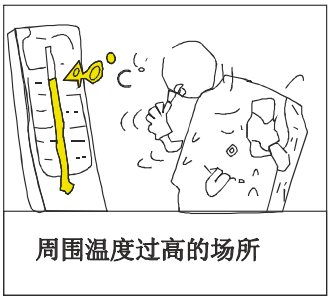
Safety Attention

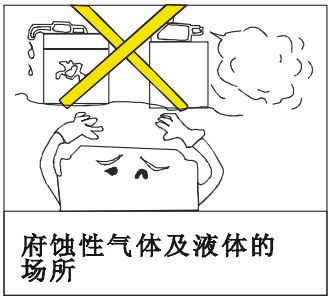
1) The machine has a high-voltage at internal part, the adjustment must be operated by technician to avoid any personal injury or damage caused.
2) When checking and maintaining, please cut off the power before proceeding.
3) Please shut off the door of machine. Before opening the door, please turn off the power switch.
4) In order to prevent abnormal accident, there must be firefighting facilities nearby.

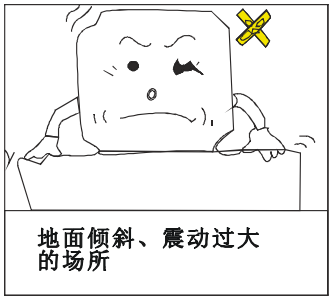
Install Attention

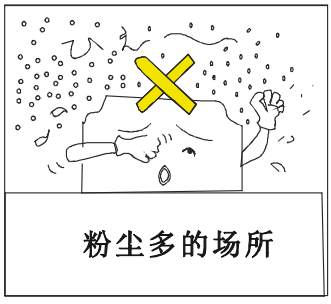
For safety and avoiding damage, do not place machine at the following area.











Using attention

1) The voltage range of the machine is between 105V ~ 115V / 215V ~ 225V. The rated working voltage is 110V / 220V. The specific working voltage is shown on the nameplate of the machine door. The use of the machine voltage must be correct, otherwise it will make the machine hard to repair damaged.
2) The power plug must be inserted firmly, and keep the power cord can not pull too tight, damaged, to prevent personal injury and power supply short circuit, leakage.
3) Please set the machine's coin and game content at first using, so that the machine can be operated normally.
4) Check all functions when operating the machine.

Maintenance

1) Please maintain machine regularly to check each function can be operated normally.
2) Shut down power switch when changing the parts to avoid any injury.
3) Use the same model when changing the parts to avoid any damage.
4) Check the wire connection and voltage output after changing power supply box.
5) Working voltage of PCB is 12.1V~12.4V.
6) Before sending PCB for repair, please do leakage inspection and internal voltage & power supply to ensure PCB is damaged or not.

Cleaning

1) Wipe the machine with a clean, soft cloth.

2) To avoid any damage on the surface, please do not clean the machine with the stuff below.

- Deteriorated cleaner
- Acidic cleaner
- Pesticides, disinfectants, alcohol or other chemical products

Attention for movement or transportation

1) When moving or transporting, please pay attention on disassembly to prevent damage to the machine.

2) During transport, please prevent impact from rubbing on machine; otherwise it will cause serious damage to the appearance of the machine.

3) When transporting the machine, please pay attention on the methods and protect the appearance of the machine; otherwise it will cause serious damage to the machine.

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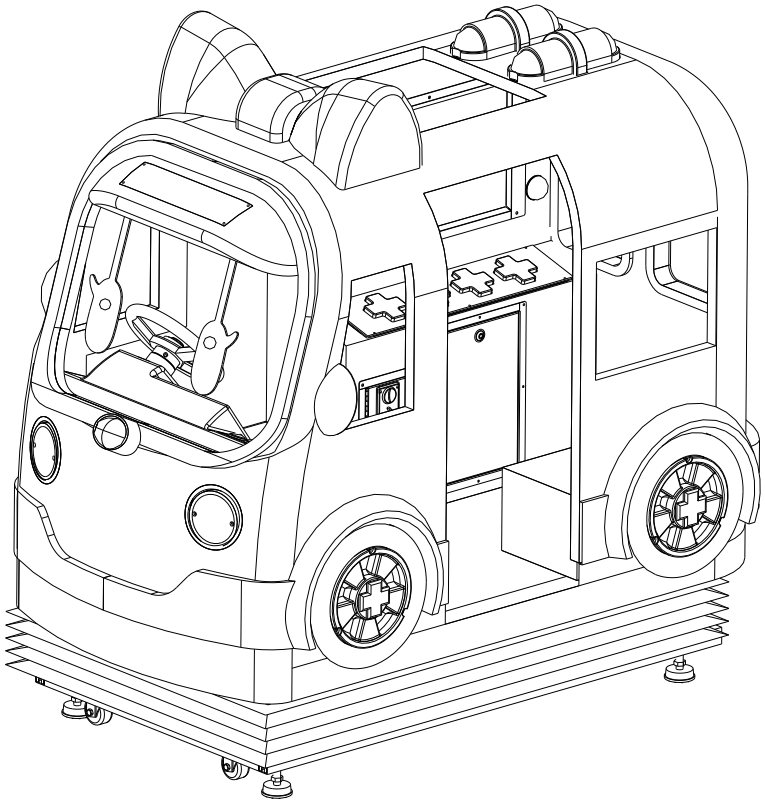
1. Game machine introduction



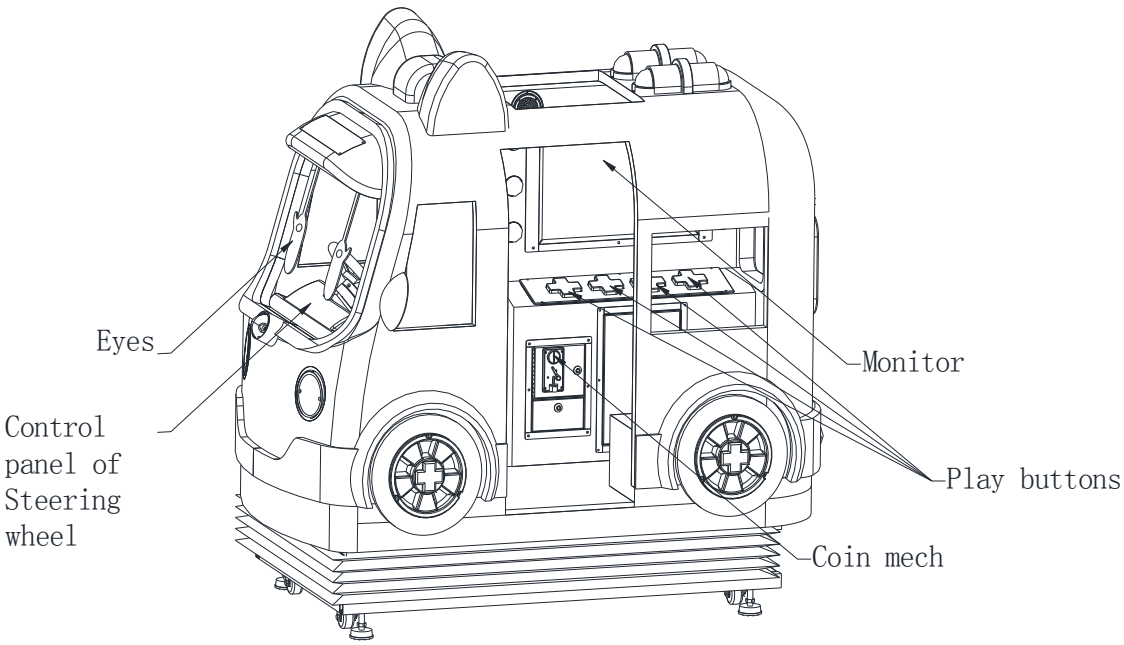
2. How to play

The machine can be played for two people at the same time, but two different roles in the game; one person controls and plays at the steering wheel, another person controls and plays at the screen. Two roles cooperate to play the game, ideal for parent-child play or friends. Two roles can also operate independently of each other, each acting without disturbing each other.

Instruction of playing game:

1) Insert the coin and game will start automatically

2) How to play at the screen:



After the game starts, the screen will play a scene, the player must first enjoy this wonderful animation. From the animated short film, learn which member of the POLI family was dirty or injured while performing the task. The player's job is to take care or repair POLI members after the animation.

The way to play: Take care or repair POLI member by pressing the four buttons corresponding to the screen; press different button at different step.

During the game, there are two tips shown at the same time to let player know which button should be pressed to complete the task. One of tips is on the monitor:

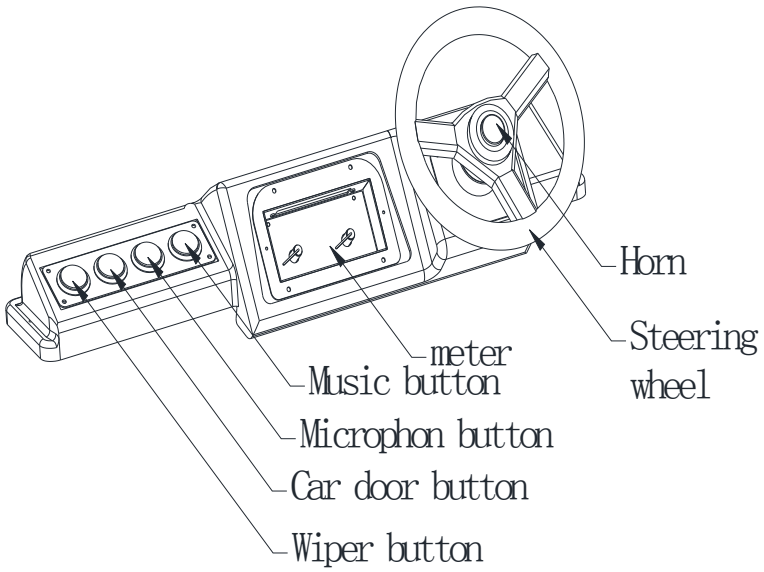
At the bottom of the screen, there are four tip boxes, they correspond

to the four game buttons on the machine, when a tip box on the screen appears pointing to a game button icon then the player presses the corresponding game button.

The second tip is the game's own tip on the buttons, when a game button lights up, you need to press the light button.

Whether care or repair POLI member, player needs to complete the process within the required time (total time) according to step by step. Each process is divided into some steps and player needs to complete all steps within required time (process time). After the end of process time, the game will go to the next process whether player complete all the steps. If player can complete all steps in required time, the screen will show "Care or repair is done, you are awesome". If player does not complete one of the steps, the screen will show "The process is not complete, keep to go on".

3) Operation of steering wheel: When game starts, the oil pointer and the speed pointer on meter will swing automatically; eye parts will move up automatically; player can turn the steering wheel with the swing of machine to experience the feeling of driving car. In addition, there is a horn button, press it to have a whistle sound for increasing the fun of driving; there are four buttons at the left side of control panel, pressing the button to play the POLI family theme song; press the microphone to play ambulance siren sound; press the door button to make the sound of opening/closing the door; press the wiper button to make the sound of wiper. In the process of playing, player can make the imagination to image the different scenarios appear when driving car.



3. Technical parameters

Using voltage: AC220V/110V (50/60HZ)

Max currency: 0.5A/1.5A

(Remark: Actual using voltage and currency are depends on the nameplate on machine.)

Maximum power: 300W

Standby power: 60W

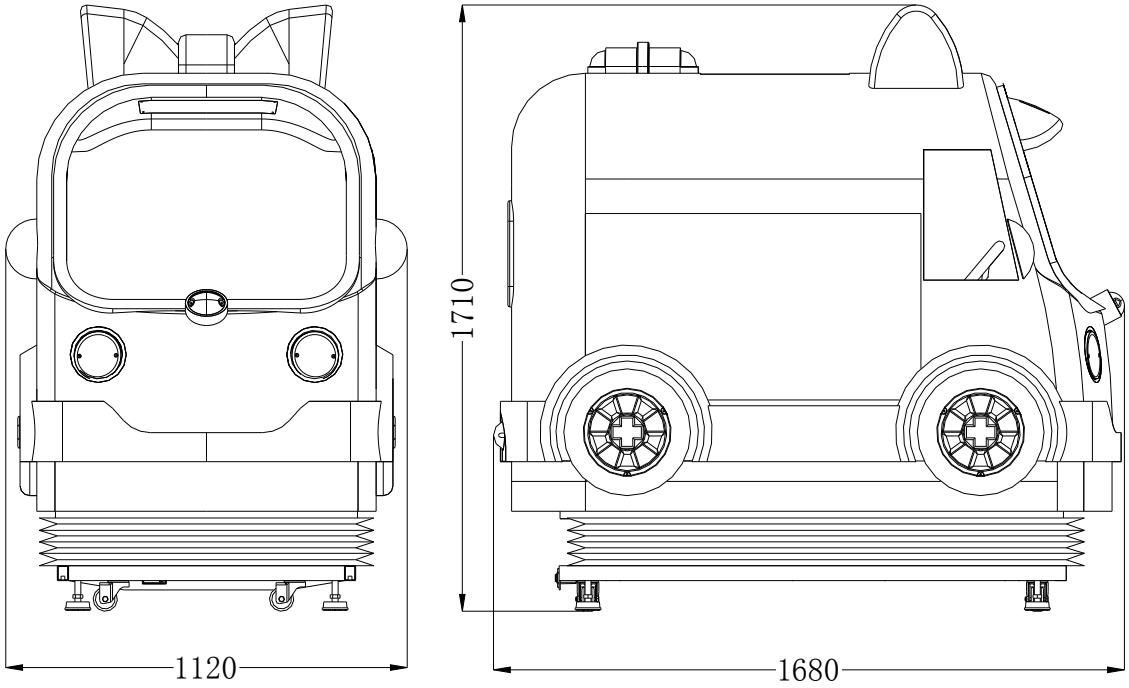
Token diameter: Φ21mm ~ Φ30mm

Token thickness: 1.2mm ~ 2.5mm

Capacity of coin box: Φ25mm*1.5mm around 1400pcs token

Environment : room temp. -5 ~ 40 ° C, ambient humidity > 90%,non-corrosive liquid contacts directly, no excessive oil mist, dust

Dimension : L1680mm*W1120mm*H1710mm



Spare parts:

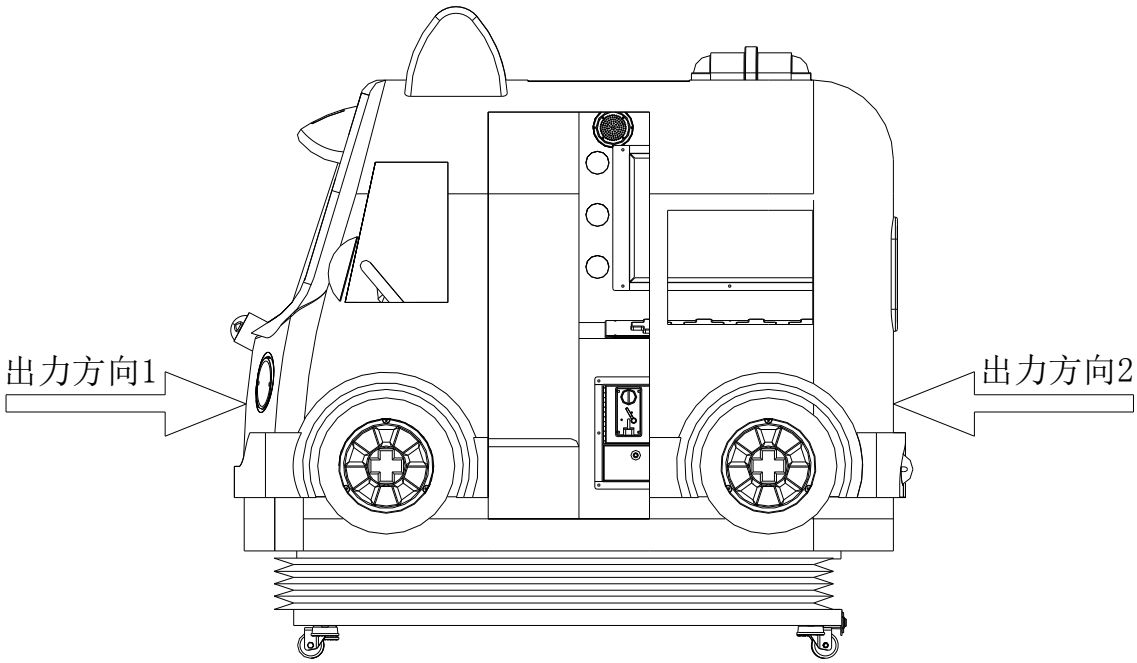
No.	Photo	Name	Spec/Model No.	Qty
1		Bayonet LED	White	1
2		Fuse	5A（small）	2
3		Key	1285#	2
4		Key	1396#	2
5		Power cord		1
6		Manuel		1

4. Movement

1） First, loose the nut of foundation to rise up and touch the nut at machine's bottom

2） Unplug the power cord from power supply box.

3） Can push machine from the front or back side.



注意：不能两个方向同时用力，只允许选择某一方向操作

Remark：**If the floor is not flat or has a tilt to it when moving machine, please pay attention to the force and prevent the crash of handling to the machine.**

Attention:

* Turn off the power switch and unplug the power cord.
* Random human movement, flip and transportation will damage the equipment.
* Prevent the crash of handling the movement, or that will cause the damage on appearance and construction on machine.

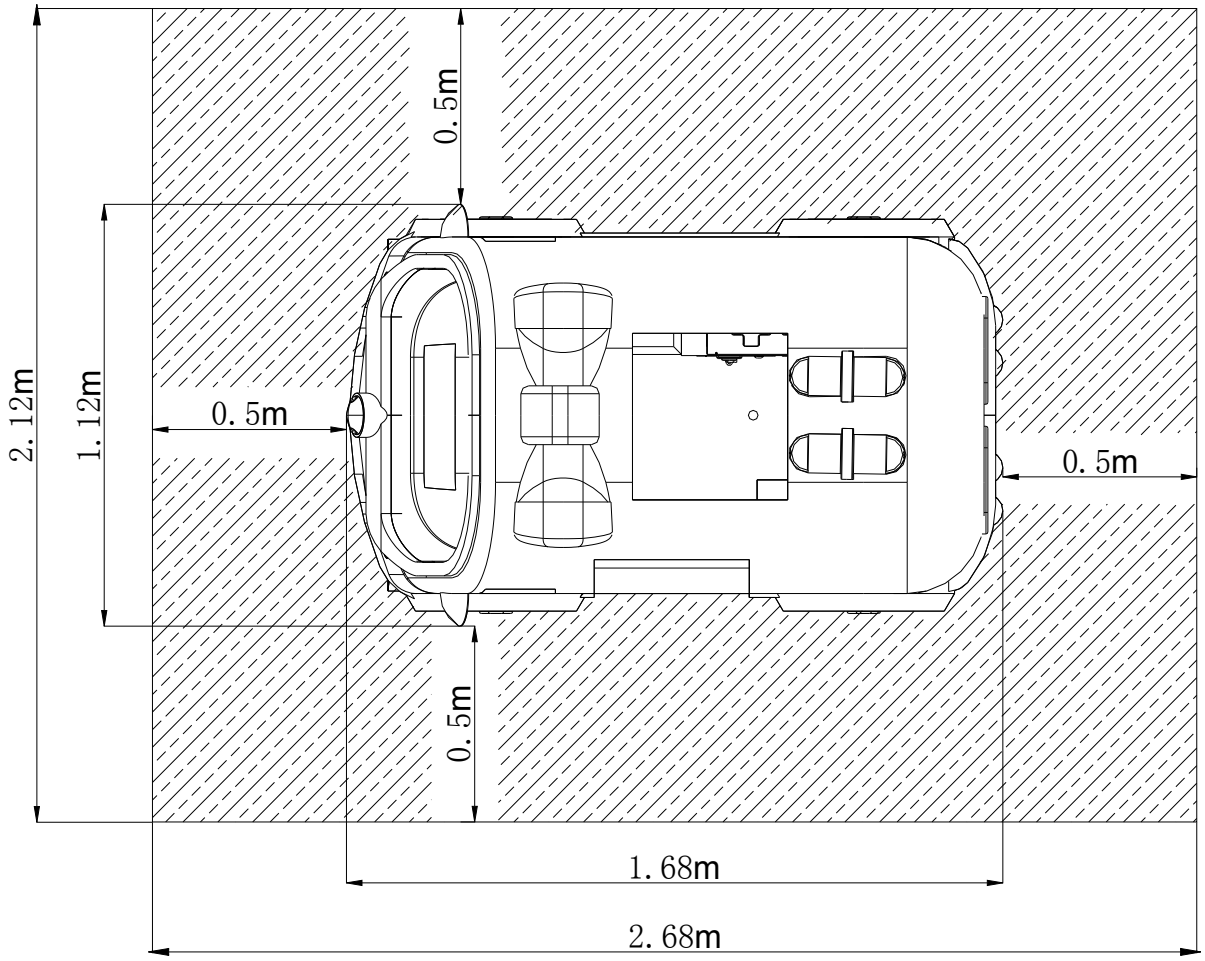
5. Installation

Please follow the steps of installation at the first time.

5.1 Select the area

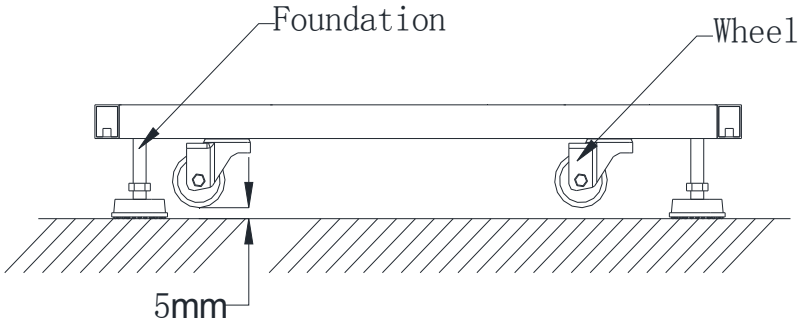
1) Place the machine with the same type of others according to its play classification and appearance.

2) Please refer to the suggested position and dimension below to place machine. Make an enough space for daily normal operation and ensure customers can play comfortably.



Attention: Machine has to be placed on flat ground.

5.2 How to fix



5.3 Check connection before power input

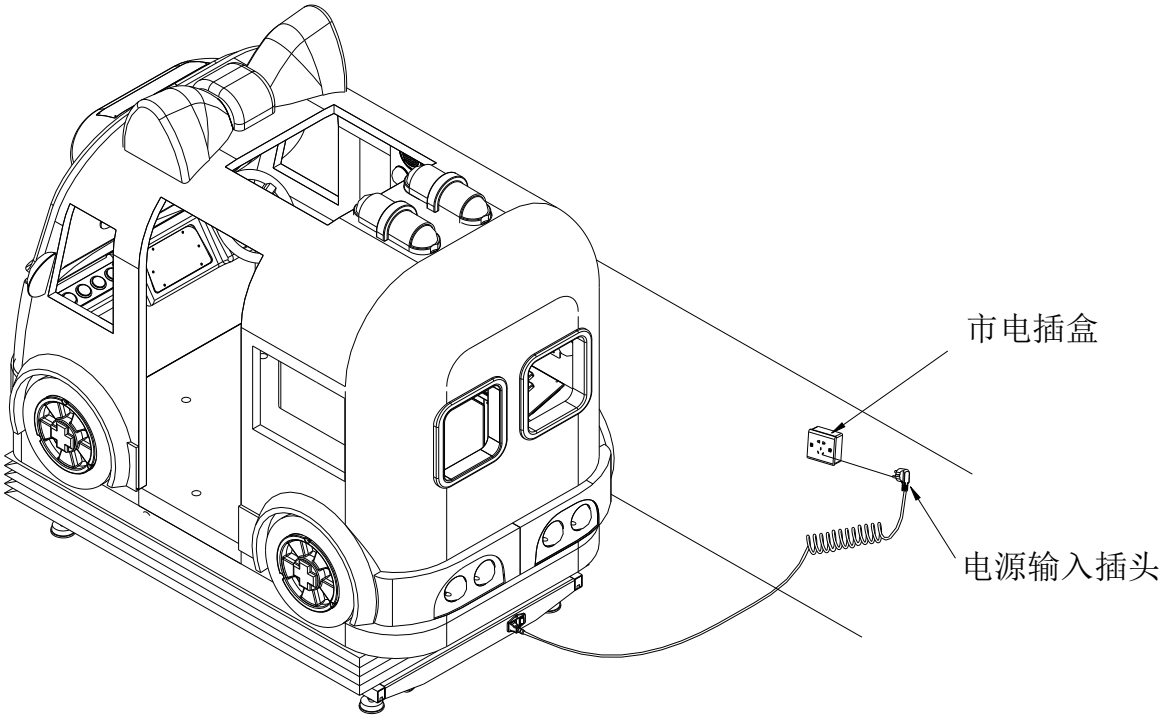
1) Check the internal structure of the machine for any looseness caused by transportation. The wire connector terminals should not fall out of the port.

2) Check the ground wire is connected to the ground.

3) Check the machine's power input at both ends of the impedance to the ground should be greater than 100 megohm.

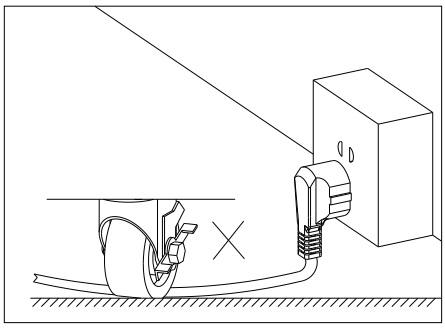
4) Adjust coin mech to make tokens work properly.

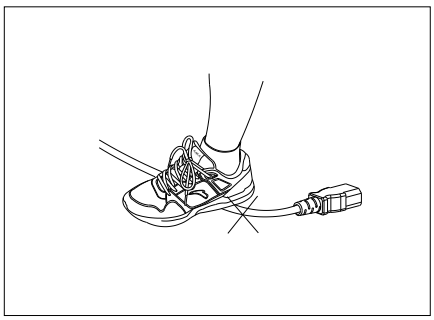
5) Connect the power cord.



Attention

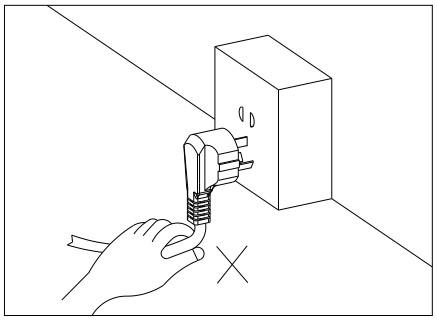
A Do not put heavy stuff on the power cable. That could cause a short circuit, even a fire. The wire cannot be forced to stretch and bend. Do not expose the wire to near the stuff with high temp. Do not put wire where to be kicked or touched easily.

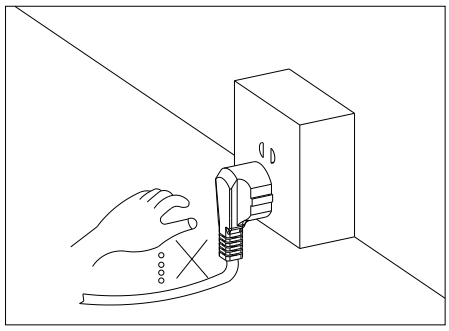




B When unplugging the power cable from the socket, please pull out by holding the plug, do not hold the wire.

Do not pull the plug with wet hands.





⚠ Warning

Check the impedance of the ground to power supply input before inputing the power to machine.And, check the way of connection.

5.4 Power input

1) Ensure machine's input voltage is same as the nameplate.
2) Turn on the power switch after inputting the power.
3) Insert the sample token into the coin acceptor, put the coin into the coin acceptor and confirm that inserting coin is normal.
4) Check all LED display and lights are ok.
5) Set the game setting including coin qty, play time.
6) Insert the coin and start to play game to ensure the buttons, turning steering wheel and swinging of machine work properly.
7) Ensure the sound is ok.

6. Check before operation

To ensure the machine can work properly and safety concern, it is necessary to do daily inspection before the operation.

Check the items below：

1) Power input wiring is fixed well and no damage.
2) Ensure machine is fixed well.
3) Confirm there's no damage on the appearance.
4) Ensure there's no stain on machine and labels are fixed well.

7. Daily operation

7.1 Power input and start to operate

1) Turn on the power switch.
2) Inspect the LED display by visual checking.
3) Check background music works properly.
4) Check coin selector, buttons, and the swinging of machine work properly.

7.2 Check machine at the end of operation

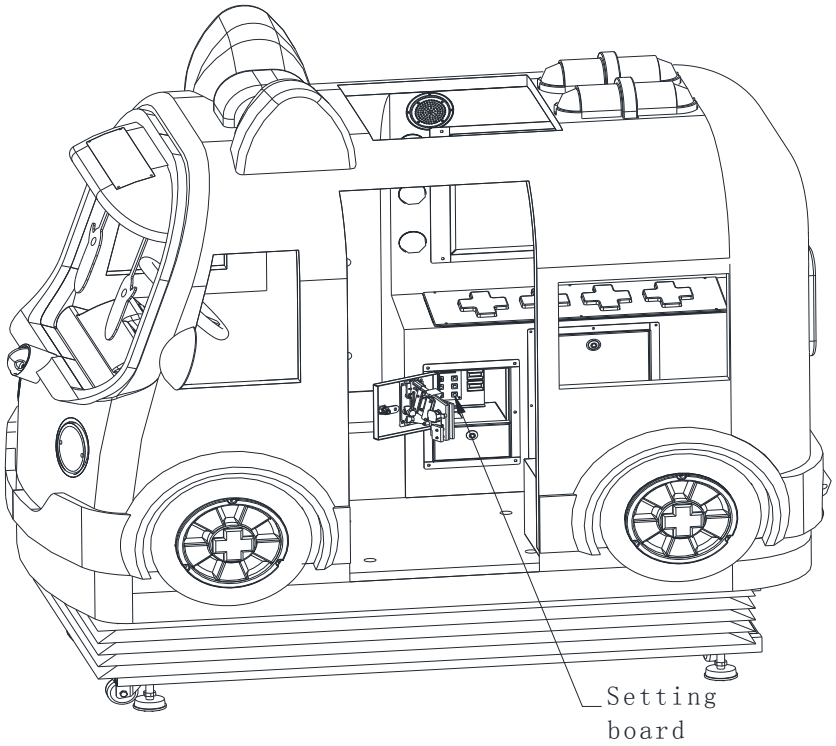
1) Check the monitor can work properly.
2) Check again for inserting coins, buttons and swinging of machine, if there is any problem, check the troubleshooting list.

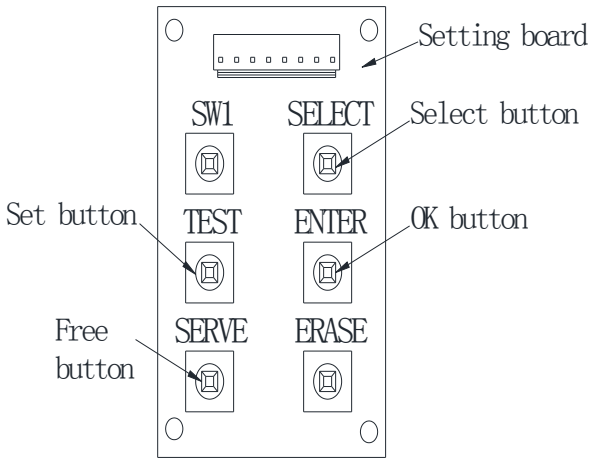
7.3 Collect coins and account

1) Open the coin box and collect coins after turning off machine.
2) Open the door to check the number of coin code tables.

8. Game setting

8.1 Setting button instruction





TEST/set button: Enter game setting menu/switch the item

ENTER/OK button: Increase/decrease the value

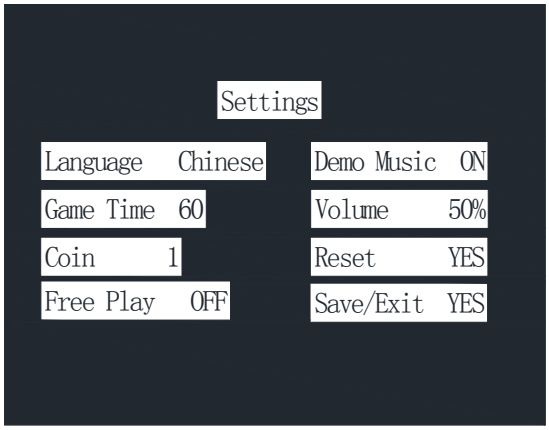
SERVE/free button: Free play

8.2 How to set

Press “TEST” on setting board to enter setting menu; select the item by pressing “TEST” again, and change the change the item by pressing “ENTER”

8.3 Setting instruction

Setting menu



Instruction

1) Language: Set the language on monitor.

2) Game Time: Set the time for playing a game. If set “60”, game time is 60 seconds.

3) Coin: Set the coin qty to play a game. If set “1”, that means play a game by inserting 1 coin.

4) Free Play: If set “OFF”, machine cannot be played free.

5) Demo music: If set “ON”, machine would play music under standby.

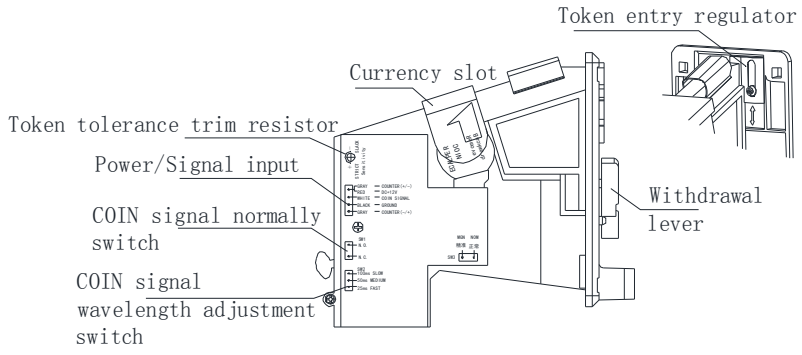
6) Volume: If set 50%, the volume is 50% of max value.

7) Reset: All game parameters are restored to the factory setting.

8) Save and exit: Save the game settings and exit the menu.

9. Adjustment

9.1 Coin selector adjustment

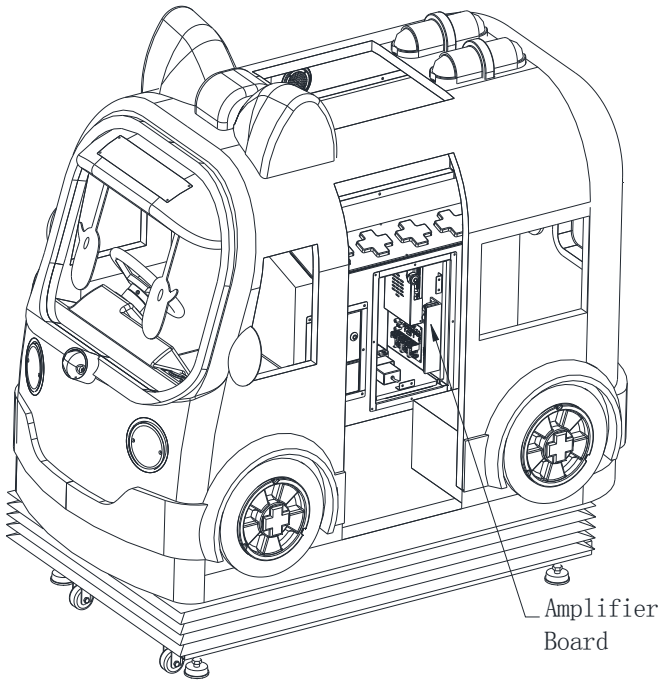


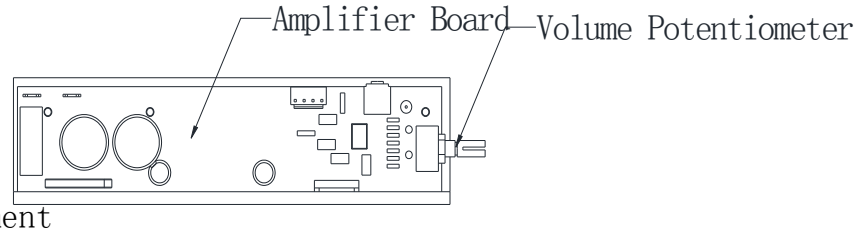
Coin Selector

Adjustment:

1) Remove the plastic coin in slot and replace the using coin.
2) Loosen the screw at the back of coin slot and adjust the fixing piece according to the coin size to avoid the larger coin is stuck at the coin selector.
3) Set COIN switch at NO (COIN signal line to ground normally open).Remark: this switch can be used as coin switch when machine is operating.
4) Adjust COIN signal wavelength to 50MS.
5) Adjust the token tolerance resistor according to the photo above, turn clockwise to adjust the sensitivity of the token tolerance increases, the range of acceptable tokens has larger tolerances; turn counterclockwise to adjust the sensitivity of the token tolerance to reduce the acceptable range of small coin tolerance.

9.2 Volume adjustment





Volume Adjustment

1) Open the coin door and find the volume potentiometer on amplifier board, adjust the volume by turning it. Turn the potentiometer clockwise to make the sound louder; turn counterclockwise to make it smaller.

2) Open the coin door and adjust according to 8.2 setting instruction on main menu. Adjust the percentage of volume, the percentage is higher and sound is louder; the percentage is lower and the sound is lower.

The main method for adjusting volume is to set on menu.

⚠ Attention

Please turn the volume potentiomenter slowly. Do not turn to the rightmost position at one time to prevent the sudden increase of the volume output current and burn the speaker.

10. Maintenance

⚠Warning

- Non-professional technicians do not check and maintain to avoid personal injury and damage to the machine.
- Ensure to turn off the power then do the maintenance
- Do not pot tools or other object in machine to avoid any malfunction.
- After inspection, please install all parts and tighten the screws.

10.1 Daily inspection

Item	Inspection
Coin selector	Check the coin can be inserted and work properly.
Steering wheel	Check the turning is working properly.
Control Panel	Check the buttons work properly.
Eye swinging	Check the eye can swing properly.
Swinging of machine	Check the machine can swing properly.
Volume	Check the sound and volume is ok, not too loud or too low.
Screen	Check if the game on monitor and the color is normal.
Temp./Humidity	Check temp. and humidity of the surrounding environment is too high or not.

10.2 Daily maintenance

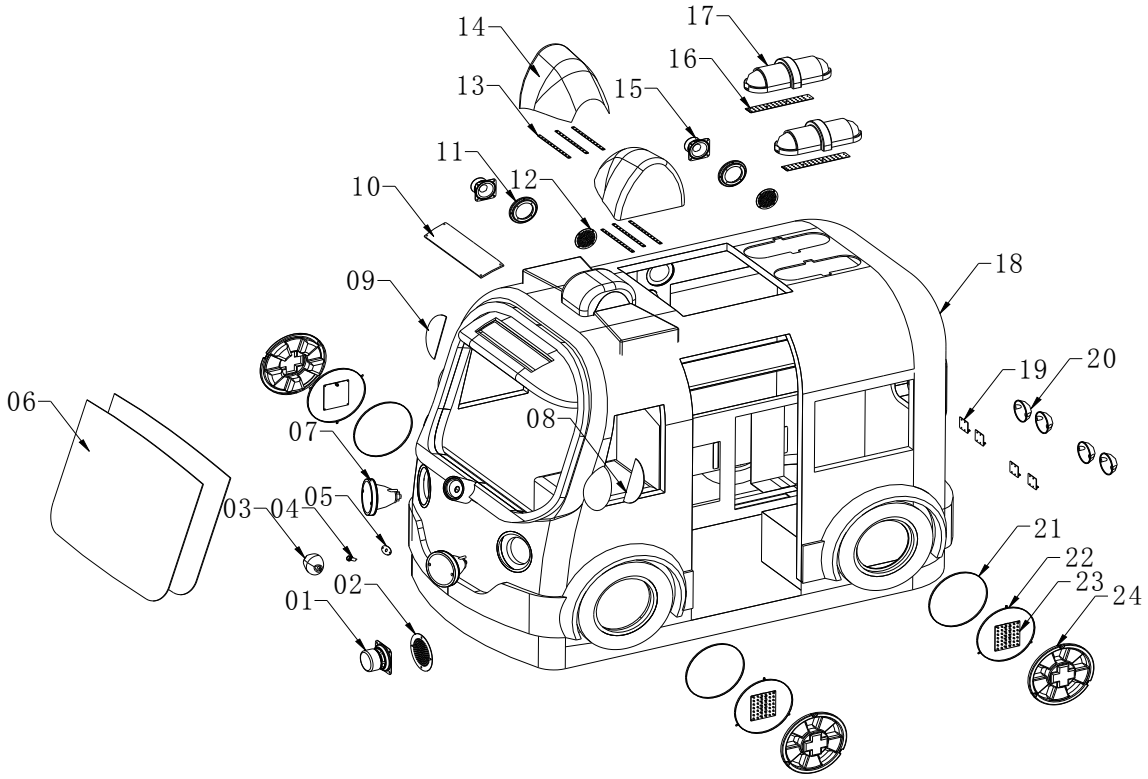
Item	Maintenance
Machine case	Clean the machine case with clean water and absorbent paper.
Glass cover on display	Clean the glass cover with clean water and absorbent paper.
PCB board	Use a small brush to clean the dust and dirt.

11. Troubleshooting

Situation	Caused reason	Troubleshooting
Can not insert the coin	There is no currency coin in slot.	Put the coin in currency slot.
	The sensitivity of the token is too high.	Adjust the sensitivity of the token.
	Coin selector is damaged	Change the coin selector.
Light does not work	The wire is disconnected	Check the connection
	Light is damaged	Change the light
	Drive board is damgaed	Repair or change the board
Motor does not work	The wire is disconnected	Check the connection
	Motor-driven solid-state relay is damaged	Change or repair the relay
	Motor is damaged	Change the motor
Button does not work	Wire of switch is disconnected	Check and connect the wire
	Switch is damaged	Change the switch
No display on LCD	Power wire is loosen	Replug the power wire
	Monitor signal cable is disconnected	Connect signal cable
	Monitor is damaged	Change the monitor
	Main board is damaged	Change the main board
No sound	Speaker wire is loosen	Reconnect the wire
	Volume is adjusted too low	Open the repair door, adjust the volume potentiometer on the amplifier board
	Speaker is damaged	Change the speaker
Machine has no reaction	No AC 110/220V input	Check the wiring and main power supply
	Filter is not turned on or burned	Turn on the switch and check fuse
	No output from power supply box	Repair or change the power supply box
	Main board does not work	Change the main board

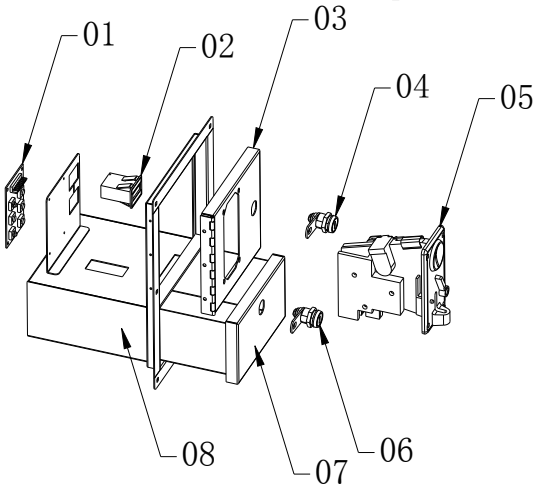
12. Components exploded diagram and parts list

12.1 FRP components exploded diagram and parts list



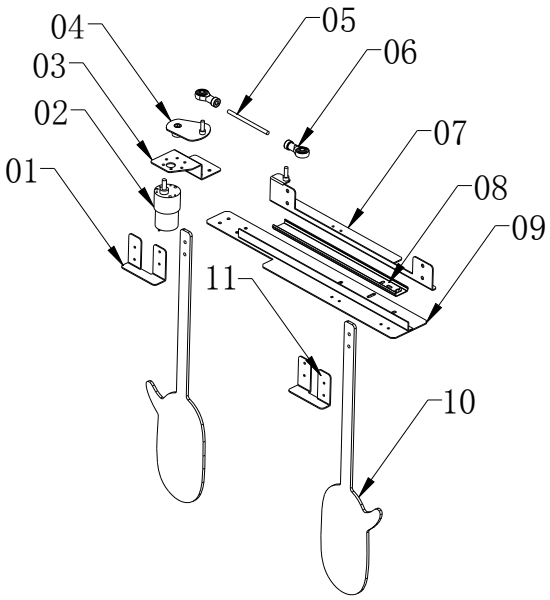
NO.	Name	QTY.	NO.	Name	QTY.
01	Speaker (4.5 inch)	1	13	Light belt(Red,10cm)	6
02	Speaker net	1	14	Front warning light cover	2
03	Light cover of nose	1	15	Speaker (4 inch)	2
04	Indicator light of direction (white)	1	16	LED light board (white half)	2
05	Fixer of nose light	1	17	Back warning light cover	2
06	Plastic cover of Car head	2	18	Fiberglass of Car body	1
07	Back light (JYH180)	2	19	Light board	4
08	Left rearview mirror	1	20	Back light cover	4
09	Right rearview mirror	1	21	Light belt (90cm)	4
10	Front cover (Fiberglass)	1	22	Holder of light belt	4
11	Plastic cover of speaker	2	23	Light belt (white)	4
12	Silver plastic cover of speaker	2	24	Wheel Cover	4

12.2 Coin door components exploded diagram and pars list



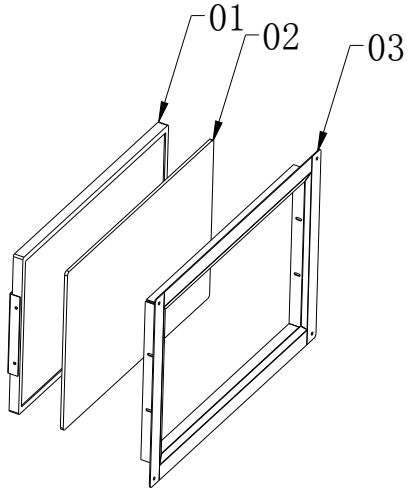
NO.	Name	QTY.
01	Setting board	1
02	Meter	1
03	Coin door	1
04	Short key 1285	1
05	Coin selector	1
06	Short key 1369	1
07	Coin box	1
08	Hardware frame of coin box	1

12.3 Eye components exploded diagram and pars list



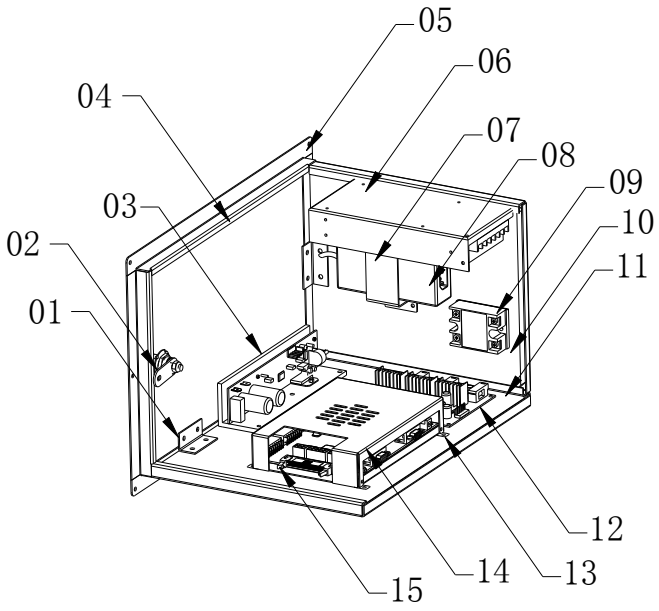
NO.	Name	QTY.
01	Left eye code	1
02	Motor (DC12V 180K)	1
03	Motor code	1
04	Hardware of swinging	1
05	Screw	1
06	Joint bearing (SI6T/K)	2
07	Swing arm	1
08	Guide	1
09	Eyes mounting plate	1
10	Eye (Black, plastic)	2
11	Left eye code	1

12.4 LCD display components exploded diagram and pars list



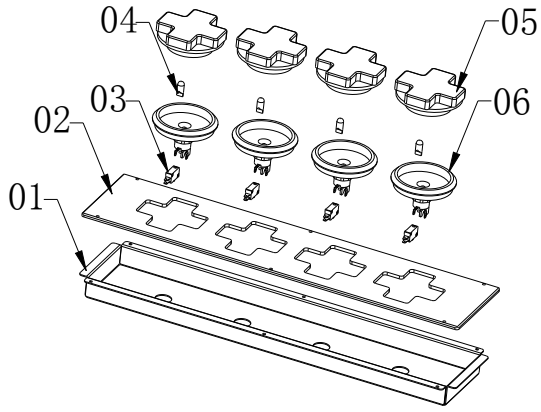
NO.	Name	QTY.
01	LCD (22″)	1
02	Glass	1
03	Frame	1

12.5 Repair door and PCB components exploded diagram and pars list



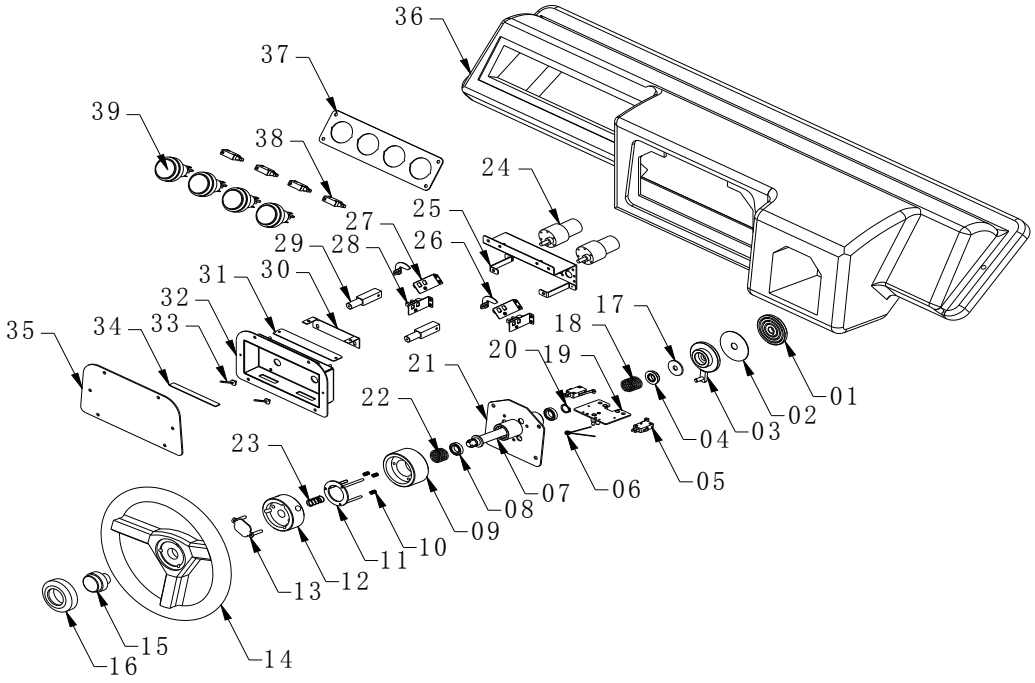
NO.	Name	QTY.
01	Floor handle	2
02	Short key 1285	1
03	Amplifier board	1
04	Repair door	1
05	Frame of repair door	1
06	Power supply(5V3A12V11A)	1
07	Fixer for power supply	1
08	Power adapter (12V4.5A	1
09	Solid state relay	1
10	Electrical installation floor 1	1
11	Electrical installation floor 2	1
12	Motor drive board (3 bits)	1
13	Mainboard fixed box down frame	1
14	Mainboard fixed box upper frame	1
15	Main board	1

12.6 Monitor and control panel components exploded diagram and pars list



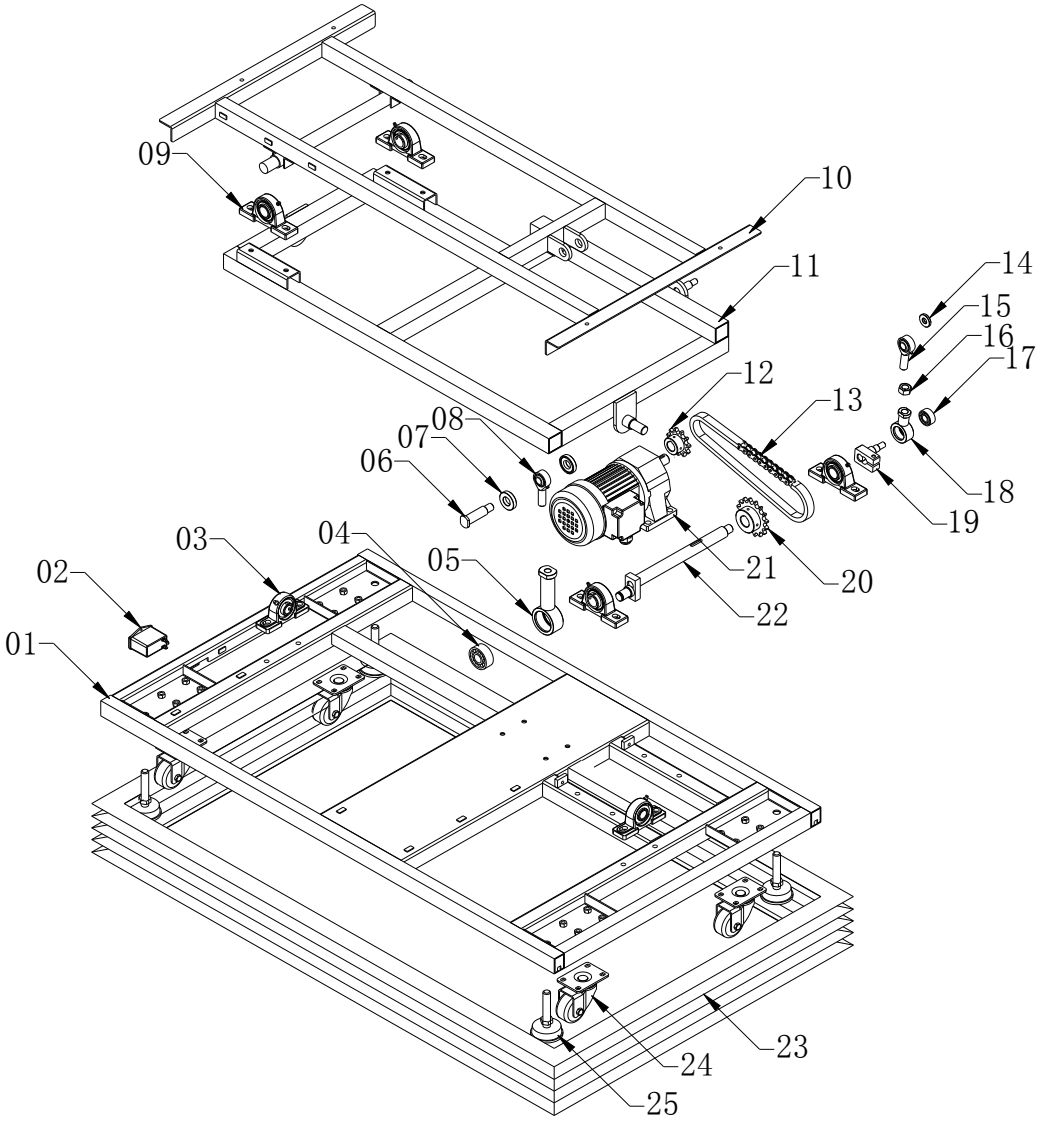
NO.	Name	QTY.
01	Button box	1
02	Plastic panel	1
03	Microswitch	4
04	Indicating ligh (red, yellow, green, blue)	1 pc/color
05	Button (white, plastic)	4
06	Button holder	4

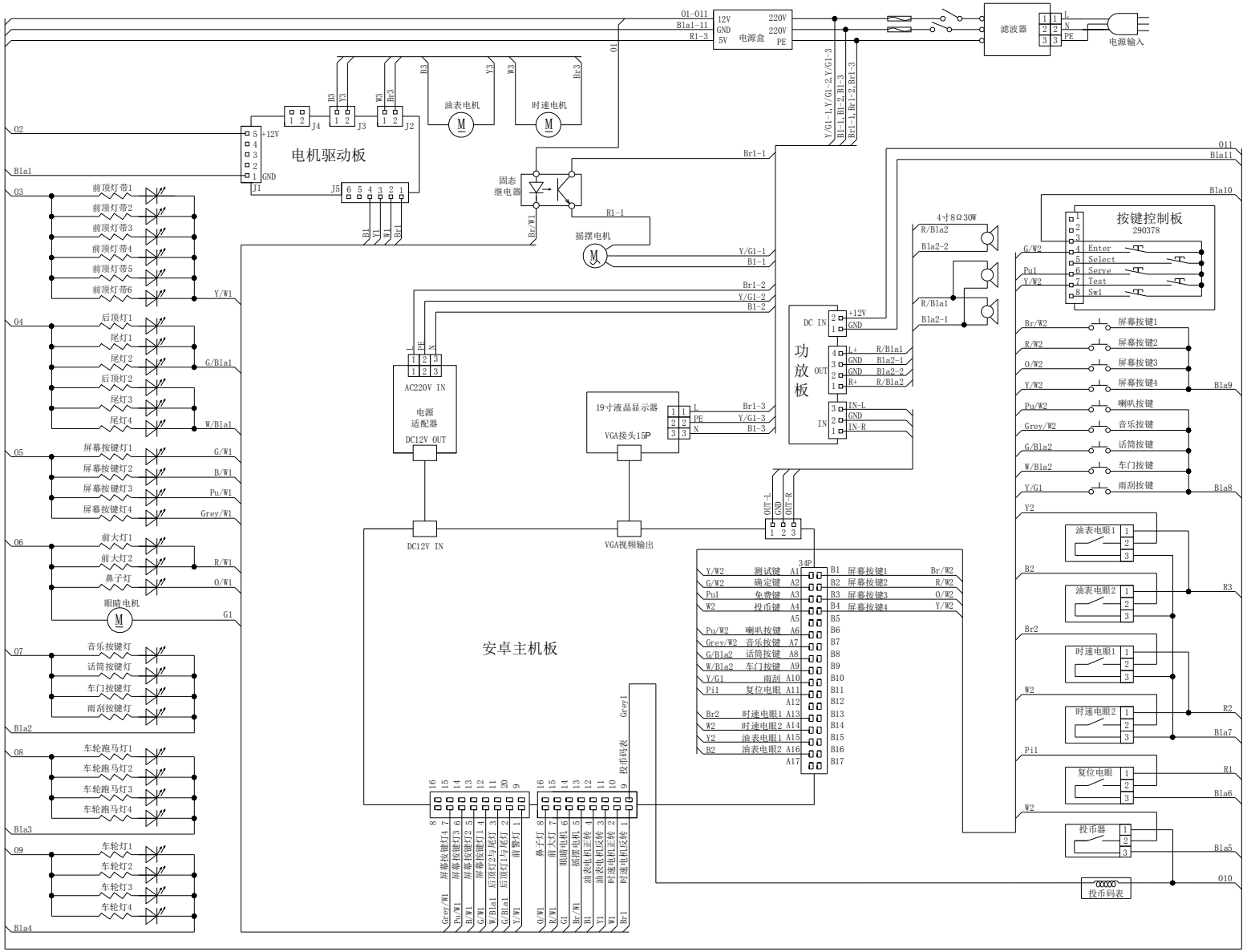
12.7 Steering wheel components exploded diagram and pars list



NO.	Name	QTY	NO.	Name	QTY
01	Friction plate	1	21	Steering wheel base	1
02	Friction plate (leather)	1	22	Spring (3-29)	1
03	Friction switch	1	23	Spring (3-12)	1
04	Bearing (6202)	1	24	Motor (12V180K)	2
05	Microswitch	2	25	Rack of motor	1
06	Spring	1	26	Sensor	2
07	Coupling shaft	1	27	Fixer for optoelectronic switch	4
08	Bearing (61802)	2	28	Optoelectronic switchKI669	4
09	Nylon block (3-9)	1	29	Indicator needle shaft	2
10	Spring (3-13)	3	30	Rack for optoelectronic switch	1
11	Spring base of steering wheel	1	31	Gasket (transparent,plastic)	1
12	Nylon block (3-3)	1	32	Meter box	1
13	Spring base of button	1	33	Needle	2
14	Steering wheel	1	34	Light belt (white 10cm)	1
15	Horn button	1	35	Meter cover	1
16	Shaft sleeve	1	36	Fiberglass of control panel	1
17	Bottom gasket	1	37	Plastic cover of button	1
18	Spring (3-26)	1	38	Microswitch	4
19	Fixer for microswitch	1	39	Button with light	4
20	Spring(15x16.95x1-CE)	3			

12.8 Base components exploded diagram and pars list



NO.	Name	QTY.	NO.	Name	QTY.
01	Underframe	1	14	Limit cushion 2	1
02	Filter	1	15	Joint bearing 2	1
03	Mounted bearing (MZD P204)	2	16	Hex nut (M16)	1
04	Self-aligning ball bearing (2304)	1	17	Self-aligning ball bearing (2202)	1
05	Left/Right bearing pedestal	1	18	Upper and lower bearing base	1
06	Support shaft	1	19	Left and right eccentric axis	1
07	Limit cushion 1	1	20	Driven sprocket (10A)	1
08	Joint bearing 1	1	21	Motor (200W 1: 60)	1
09	Mounted bearing (UCP205)	4	22	Main eccentricity axis	1
10	Upper frame	1	23	Dust guard	1
11	Middle frame	1	24	Movable casters (2.5″)	4
12	Motor sprocket (10A)	1	25	Fixed foot (M16)	4
13	Chain (10A)	1	26		

13. Circuit diagram