Zombie Outbreak

Water Shooting

MANUAL

⚠ **Warning**

✧ Please read the manual before installation and use.

✧ Please put the manual together with the machine.

CONTENTS

Introduction

I. Company Profile

Thank you for choosing the amusement machine produced by our company. We are a comprehensive enterprise integrating development, production, sales, operation and services. "Quality first, users first, services first" is our solemn promise to customers and our action guide.

Please carefully read the manual for correct, appropriate and safe use of the machine. We hope it can help you to succeed!

II. Introduction to the Product:

Zombie Outbreak Water Shooting is an indoor redemption machine newly developed by our company and especially designed for any FEC or amusement locations. It is novel and beautiful in appearance, safe and reliable, and easy to operate, so it is the most valuable amusement product with a higher coin collecting rate in amusement center.

III. Features of the Product:

✧ Novel gameplay full of fun;

✧ Elegant appearance, bright-colored and exquisite patterns, made of MDF, plywood, angle iron and metal plate, safe and durable due to rust-proof treatment;

✧ Large-scale integrated circuit, built-in program, stable and reliable working performance;

✧ Sophisticated and adjustable game program and win ratio.

IV. Note on Safety:

Before use, please note the safety warning stickers on the machine; while reading the manual, please pay special attention to some signs. We divide the safety warnings into 3 categories as follows. They mean different levels of danger.

- **Danger** It means there will be danger of harm to people due to improper operation.

- **Warning** It means there will be possibility of harm to people due to improper operation.

- **Attention** It means there will be possibility of harm to people or the machine due to improper operation.

Please pay attention to the following signs on the machine:

High temperature sign	High temperature sign
No touching sign	

Specifications and Technical Parameters

Unit: mm
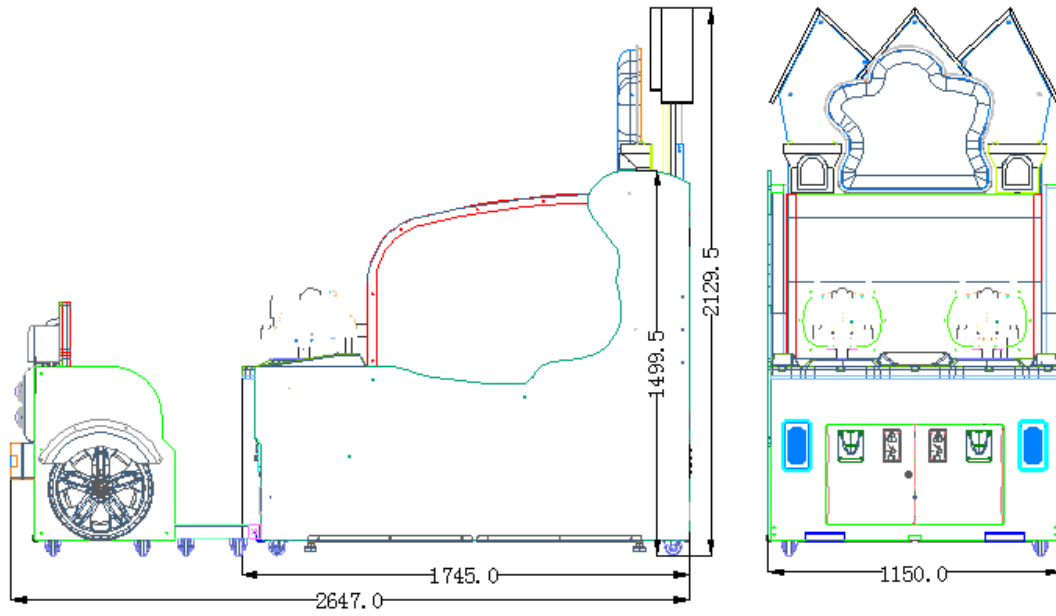
1) Operating Voltage: AC 220V - 240V, 50/60 Hz or AC110V±5%, 50/60 Hz

2) Minimum Power: 500W

3) Maximum Power: 1100W

4) Dimensions: W1150.0 × D2647 × H 2129.5 (mm)

5) Weight: 280Kgs

6) Operating Environment: Temperature (indoors): 0℃～35℃；

Humidity: ≤90%；

Atmospheric pressure: 86Pa～106Pa.

⚠ **Warning:** After turning off the machine, please wait 1 minute if you want to turn it on.

⚠ **Attention:** The above technical parameters are subject to change without prior notice.

⚠ **Note:** Please refer to the nameplate at the back of game for the voltage of your unit.

Accessory list

For the normal use of the machine, please open the package and carefully check whether the following items are included.

The accessory list is below:

No.	Name	No. /Specification	QTY	Unit	Picture	Remark
1	Cable	10A/250V-3M	1	Pc		
2	Fuse	Φ5×20mm T5A 250VAC	1	Pc		
3	Pin for Clear Water Gun's Holes	1.1mm	3	Pc		
4	Manual	English	1	Pc		
5	Key	AA33	2	Pc		
6	Key	AA32	2	Pc		

Please open the package and check whether all accessories are included. If not, please contact the distributor of the machine for check.

⚠ **Attention:** The above technical parameters are subject to change without prior notice.

How to Move and Position the Machine

How to Move the Machine

There are trundles under the machine. When moving the machine for a short distance, you should raise foot to make the trundles touch the ground and push the machine. As there will be danger of overturning when the foot hits obstacle on the ground, you should move the foot up as much as you can and pay attention to obstacles ahead and uneven places when moving the machine along the ground.
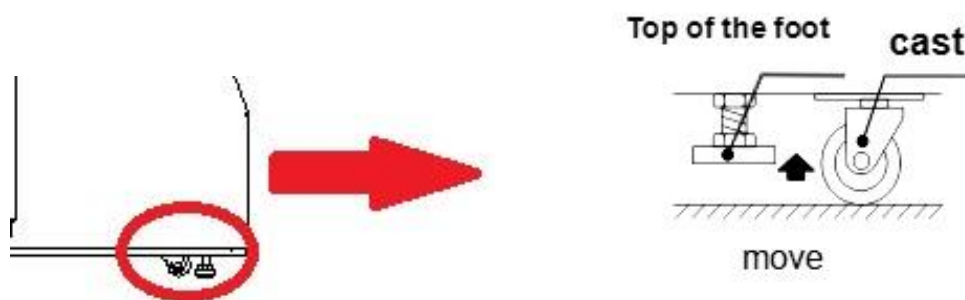
When moving the machine for a short distance, you should raise the foot to make the trundles touch the ground and push the machine.

When you move the machine and pass uneven places or place with steps, 4 people or more are needed to lift the machine for safety.

Please unplug the power socket before moving to prevent accidents and failure.
Please do not damage the cable when moving to prevent accidents and failure.
Please move the machine before raising the foot margin as much as you can to prevent accidents and failure.
The machine shall be moved by at least two people to prevent injury caused by the accident.

How to Position the Machine

● Please place it on flat ground where it won't slide easily;

● Please use the following foot to fix the machine (as shown below)

　① Loosen the tightly locked nuts of the foot, tighten the bolts of the foot with a wrench, and keep the trundle approximately 5mm away from the ground.

　② Tighten the nuts clockwise and fix them.
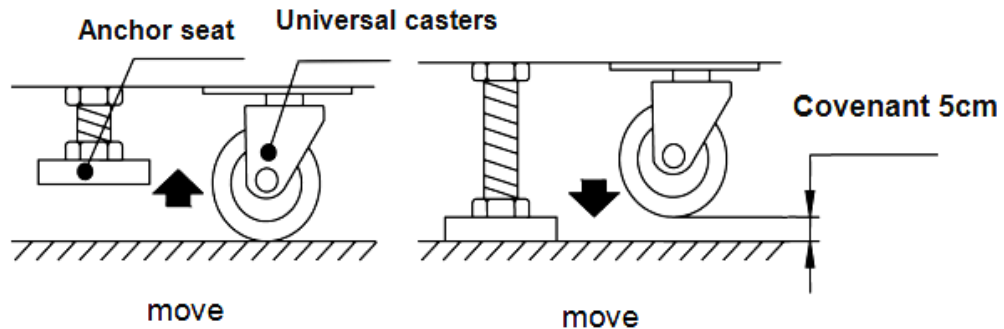
Unsuitable places

➢ Place in which the machine may have condensate water or with high humidity;

➢ Place close to high-temperature objects;

➢ Place close to dangerous substances;

➢ Smooth or unstable place;

➢ Place close to equipment that may easily produce sparks;

➢ Place with heavy vibration;

➢ Dusty place.

Where to Place

⚠ **Warning:** The machine is only suitable for indoor use, not outdoor use.

⚠ **Warning:** Please do not use the forklift to move the machine, otherwise it may be damaged.

Installation Location Dimension

The machine should be placed according to the following dimensions for customers'

safety and enough space to run the machine.

Game area: 30cm

Unit: mm
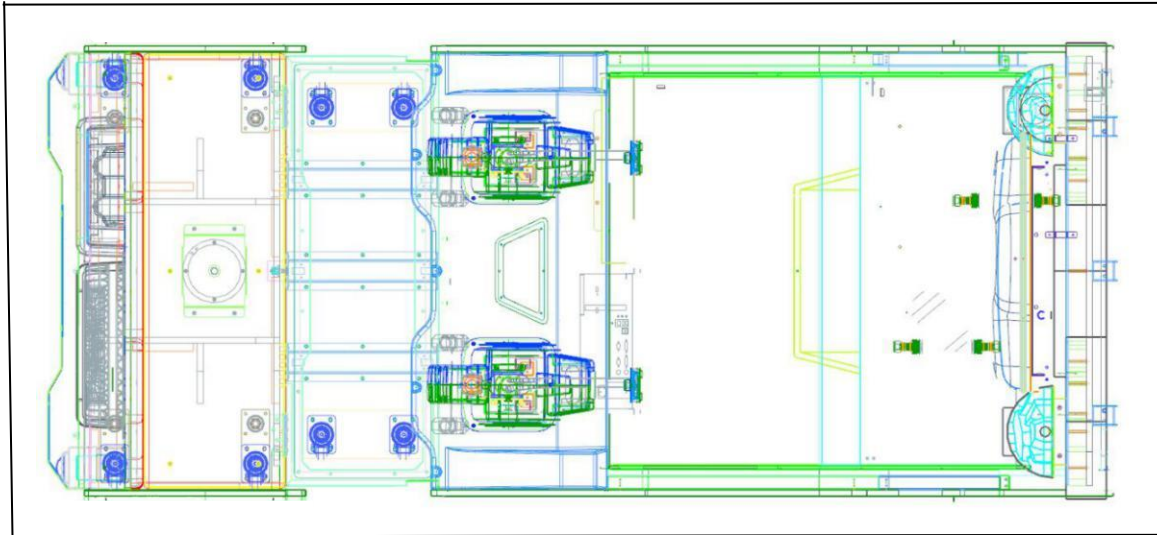
⚠ **Attention:** The machine should not be placed at inclined place, or there

may be an accident.

⚠ **Attention:** The division of the game area should refer to labels of each

machine.

Precautions before Startup

1) Check parameters of the power supply. Ensure parameters of the machine meet the requirements, or the machine might be damaged or there might be fire accident.
2) Excessive loads on a power socket might cause socket overheat and fire accident.

⚠ Warning

◎　　Do not change or replace parts at your will when assembling the machine to prevent

fire disaster or short circuit.

Wiring and Precautions

- Connect one end of the cable to the terminal box of the machine, and connect the other end to the socket.

- Connect the power supply according to the voltage on the label, or the machine might be damaged.

- Please confirm whether there is grounding in the socket to avoid unnecessary damage.

- If the grounding cannot be done through the socket, please try other methods.

Socket

Terminal box

Plug

Plug
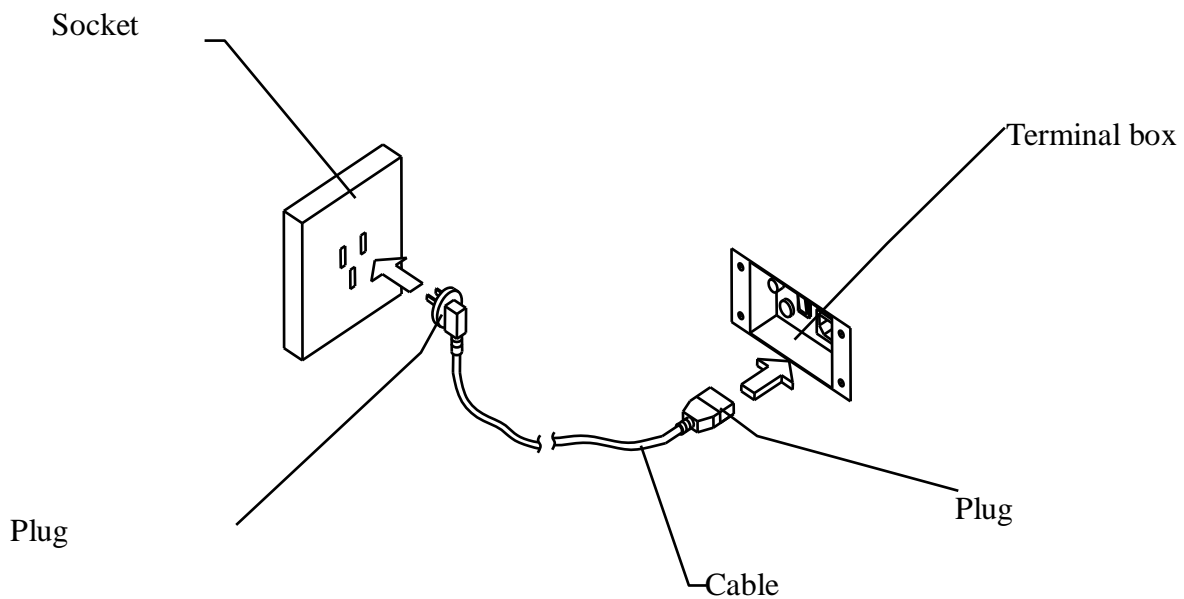
Cable

⚠️ **Warning:** The working voltage of the machine is 220V. Please connect the power supply according to the label, or the machine might be damaged.

⚠ **Attention:**

➢ The cable cannot be pressed by heavy objects, or it might be easily damaged and

cause short circuit, and even fire disaster.
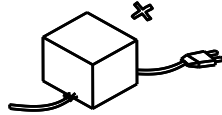
➢ When unplugging the cable, you should grasp the plug instead of the cable.
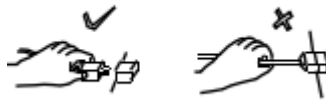
➢ It is not allowed to directly unplug with wet hands.

➢ It is not allowed to directly unplug with wet hands.
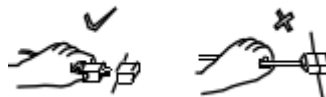
➢ It is not allowed to forcibly stretch, twist or expose the cable, or put it close to

high-temperature objects.

➢ It is not allowed to put the cable at places where it may be easily kicked or

touched.

➢ Use correct voltage and fuse (refer to technical parameters).

Installation and Maintenance

Installation and commissioning

➢ Please check the accessory list to assemble components before installation;

➢ The ground must be flat and solid. After placing the machine, adjust the feet to the ground and horizontally fix it;

➢ After installation, plug the cable and turn on the machine to check whether each part runs well. If no, immediately turn off the machine for troubleshooting.

Visual inspection

To safely use the machine, please check the following before startup:

➢ Whether the warning sign is intact, visible and stuck correctly.

➢ Whether parameters of power supply are consistent with the machine's.

➢ Whether screws of each component and components of the steering wheel are loose.

➢ Whether the connectors and terminals are loose.

➢ Whether the machine is placed stably; whether the adjustment of the trundle and the top foot is proper.

➢ Whether the machine is placed properly.

Operation inspection

➢ Whether the speaker works normally.

➢ Whether the daylight lamp and the button light are on.

➢ Whether the image is clear and normal.

Maintenance

➢ Before operation, confirm the machine runs normally and then use it;

➢ When there is dirt on the machine, wipe it with a soft cotton cloth with detergent;

➢ After the new machine has been used for one month, check whether each part runs normally;

➢ Often check the machine.

Cleaning

➢ Housing

Clean dirt on the surface of the machine with clean and soft cotton cloth.

➢ Display

Clean the outside of the display with clean and soft □ Display screen with no water; anything with acid is forbidden to touch the surface of the display.

➢ Exhaust fan

The exhaust fan is one of the main tools of dissipating heat inside the machine. It has to be clean and run normally with unobstructed outlet.

⚠ **Warning:**

● **Cut off the power supply for maintenance and repair of the machine.**

To prevent short circuit, relevant personnel should cut off the power supply when touching internal components of the machine. If the operation requires power supply, it should meet the requirements of the user's manual.

● **Use proper parts for replacement.**

Improper parts may cause short circuit, and damage of the main board and the components.

● **Do not disassemble, assemble and change the equipment by yourself.**

It may cause short circuit and machine failure, and even fire disaster.

Do not place vases, cups, containers with water, chemicals or heavy objects on the machine.

The spilt liquid may cause short circuit and damage of parts. Meanwhile, falling objects may injure people and damage the machine.

● **Do not place objects in the air outlet of the machine.**

● The blocked air outlet may cause temperature rise inside the machine, affect the normal operation of the game, and even damage the parts.

● **Do not repair the machine by yourself.**

It may cause short circuit or malfunction and other failure.

Troubleshooting

Common Failure

Phenomenon	Main cause	Troubleshooting
After the machine is powered on,(the power supply fan works), but the display is not on.	The screen is not connected to power supply.	Please reconnect the power cable or replace it with new.
	The signal wire of the screen is not connected or damaged	Please reconnect the signal wire or replace it with new.
After the machine is powered on, there is no response and the screen is not on	The power supply is inconsistent with the machine's parameters	Please check whether the power supply is consistent with the machine's parameters
	The fuse is burnt	Please replace the fuse
	The power supply is not connected	Please confirm the 220V power supply is connected and the power switch is on
	The signal wire of the screen is not connected or damaged	The signal wire of the screen is not connected or damaged
The machine is not powered on	Check whether the input of the 220V power supply is right. The short circuit is not allowed.	Please check whether the voltage of the circuit board inside the machine is normal
The control board is not powered on	Check whether the output of 5V, 12V and 24V of the power supply box is normal	Please adjust the cable to the correct position
The display has no raster	The cable of the display might fall off or be loose due to vibration	Please check the power supply circuit or replace the cable
	The display is not on	Turn on the machine manually or with the remote control
The power supply is suddenly cut off	The circuit protector works, while the power switch is off (note: when the abnormal current runs, the circuit protector cuts off the current)	Please turn on the power switch again. When the circuit protector repeatedly works, it means there is something wrong with the machine. Please contact the distributor
After the machine is powered on, the projector shows a white screen without image and sound	The host does not work	Please manually start the host
		The host power supply is damaged or replace it
		The memory bank of the main board is in poor contact or replace it
		Please contact professionals and the manufacturer if the main board is broken
No water comes out after the game starts	The water level on the left of the screen is too low; the water level of the tank is too low	Please put water into the tank till the green safety line
	The 24V cable has no voltage output	Please replace the 24V power supply box
	The solid-state relay controlling the pump or the pump does not work	Please replace the solid-state relay and the pump connection circuit
	The solenoid valve controlling water pressure is not on or does not work	Please adjust or replace the solenoid valve
	The high-power driver board and the IO board controlling the solenoid valve do not work	Please replace the high-power driver board or the IO board
No water comes out from the big water gun	The solenoid valve controlling the big water gun is not on or does not work	Please adjust or replace the solenoid valve

Phenomenon	Main cause	Troubleshooting
No water comes out from the small water gun	**There is something blocking the small water gun or the solenoid valve controlling the small water gun is not on or does not work**	**Please clean the water gun or replace the solenoid valve**
Press the start button, and the game cannot start	The holder of the start button falls off or goes wrong; the switch cable falls off; the switch of the start button goes wrong	The holder of the button is broken or replace it; press and plug the switch cable; the switch of the start button is broken or replace it
The coin collector does not respond	The coin collector is damaged	Replace the coin collector
	The signal wire of the coin collector is loose	Check whether the signal wire of the coin collector is loose
	The IO control board is damaged	Replace the IO control board
Coins are blocked in the coin collector	The sample coin is not placed well	Please check whether the sample coin is placed well, or try another sample coin
	The coin slot is not aligned or deformed	Please check whether the coin slot is aligned or deformed, and adjust it
	The coin collector is not assembled properly. The red braking bar above the coin collector is pressed	Please re-insert it into the coin collector
The coin collector does not score	Check whether there is signal feedback	Please re-connect the coin collector. It will make a sound if there is signal
	The connected target board is not connected to the pull-up resistor	Please connect the pull-up resistor
	Check whether the token in the coin collector is the same with that inserted in the coin collector	Please replace it with proper token
	The gear of the switch (normally on, normally off) is incorrect	Please check whether the gear of the switch (normally on, normally off) is correct
	The socket of the coin connector is in poor contact	Please check whether the socket of the coin connector is in poor contact
The speaker does not make a sound	Whether the circuit board of the power amplifier is powered on	Please turn on the switch of the amplifier circuit board to power on
	The volume is too low	Please turn on the volume
	Whether the audio connection port falls off or is damaged	Please re-connect the audio connection port
	The circuit board of the power amplifier goes wrong	Please replace the circuit board
	The speaker goes wrong	Please replace the speaker
No ticket fed	The ticket machine goes wrong or the switch is turned on wrong	Please replace the ticket machine or set the switch to the factory settings
Fail to shoot well	Check whether the potentiometer up, down, left and right are damaged	Replace the potentiometer and re-adjust the gun

Installation and commissioning

➢ Please check the accessory list to assemble components before installation;
➢ After installation, plug the cable and turn on the machine to check whether each part runs well. If no, immediately turn off the machine for troubleshooting.

Visual inspection

To safely use the machine, please check the following before startup:
➢ Whether the warning sign is intact, visible and stuck correctly.
➢ Whether parameters of power supply are consistent with the machine's.
➢ Whether screws of each component and components of the steering wheel are loose.
➢ Whether the connectors and terminals are loose.
➢ Whether the machine is placed stably; whether the adjustment of the trundle and the top foot is proper.
➢ Whether the machine is placed properly.

Operation inspection

➢ Whether the speaker works normally.
➢ Whether the daylight lamp and the button light are on.
➢ Whether the image is clear and normal.

Maintenance

➢ Before operation, confirm the machine runs normally and then use it;
➢ When there is dirt on the machine, wipe it with a soft cotton cloth with detergent;
➢ After the new machine has been used for one month, check whether each part runs normally;
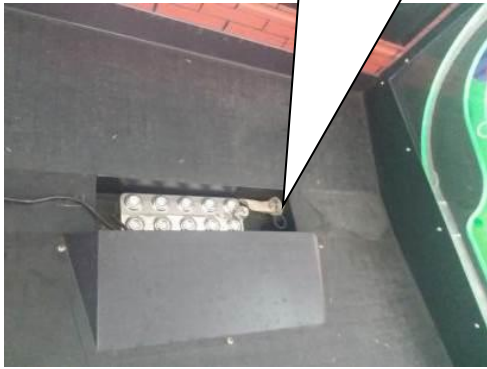➢ Often check the machine.

Cleaning

<I> Water filter and Sterilizing equipment flow chart
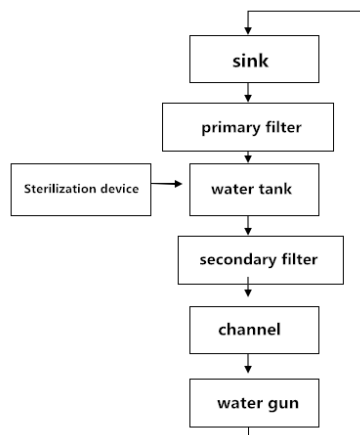
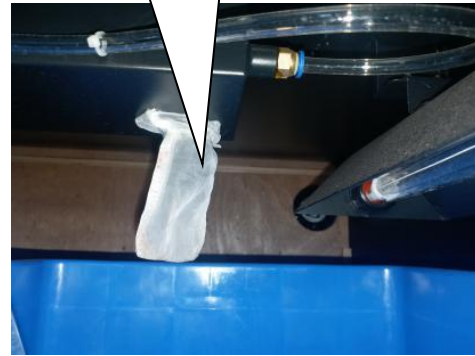# Real Shot Pictures of Cleaning

1. Primary filter device

The water inlet of the primary filter is above the sink

The primary filter components

2. Secondary filter device

The Secondary filter device

3.Sterilization device

Sterilization ultraviolet radiation tube

The Secondary filter device structure and High density filter

Sterilization device
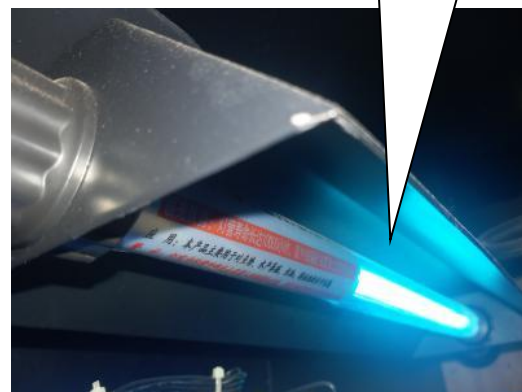
4.Cleaning Steps

Step 1: Remove the screws of tank baffle.

Step 2: Remove the baffle.

Step 3: Unplug the sensor connector.

Step 4: Gently pull out tank by 1/3.connector.
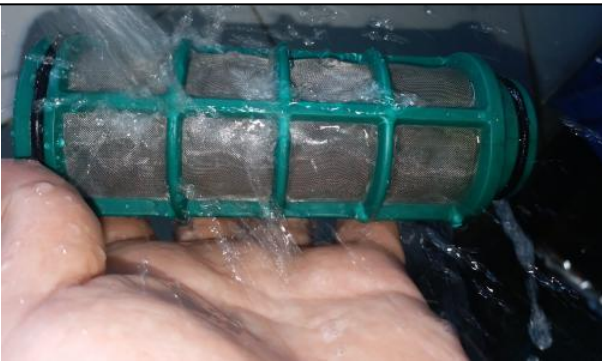
Step 5: Remove the secondary filter as shown in the following two figures.
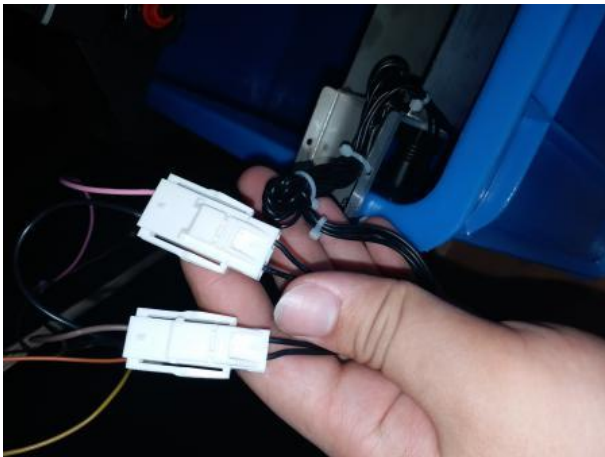
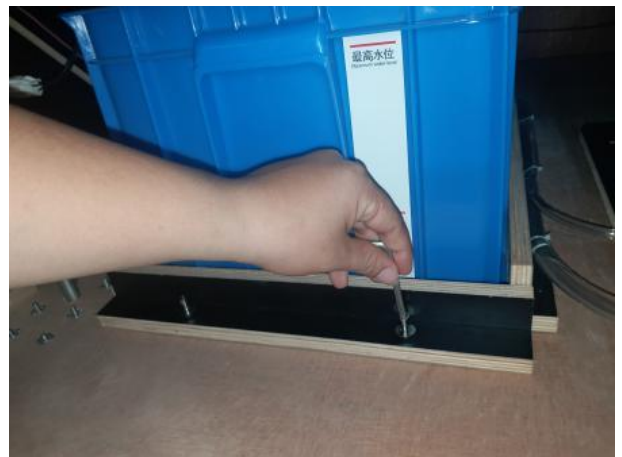Step 6: Unscrew the top cover after removing the secondary filter.

ment and
dirt is

Step 8: Gradually install the secondary   filter
according to the original disassemble steps.

Step 9: Insert the sensor connector back

Step 10: gently push the tank back into the tank
slot and   the tank baffle.

II. Error Prompt

COM1 ERROR

1. Cause: Disconnection with the IO board

2. Solution: Restart the machine, and press the reset button on the IO board (there is only one button on the board)

Missing Memory

1. Cause: The memory of the host is insufficient

2. Solution: Plug out the memory of the host, and then plug it in again.

1P TICKET ERROR
Tickets Owed:

1. Cause: No enough lotteries; the ticket machine is damaged

2. Solution: Replenish lotteries; replace the ticket machine

Less Water

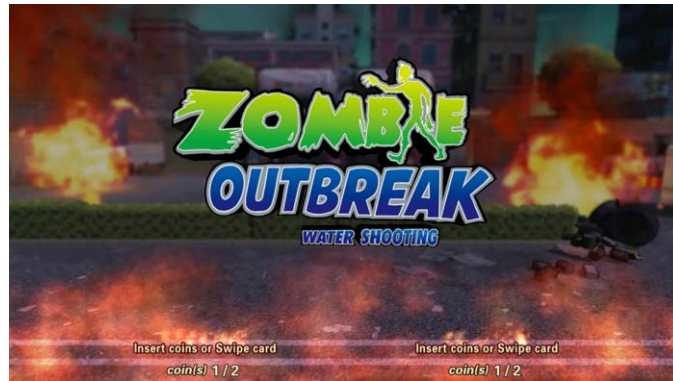**1. Cause: The water level is too low**

2. Solution: Replenish water

More Water

1. Cause: The water level is too high

2. Solution: Remove some water

Instructions on Game

Game logo/standby image

Game interface:

1. UI interface of the player's status
2. The player's front sight to aim at the target
3. The current task bar
4. Game props to increase the shooting power

Characteristics of the machine:

☆ The scene map of the game is divided into four areas: City Center, Factory, Cemetery and Pharaoh's Tomb. After the corresponding story is completed in each area, the player can go to the next map.

☆ There are some hidden props which can produce very powerful damage.

☆ The player will face various zombies. Different zombies with different attacks make the player's sense of freshness and tension stronger.

☆ There are many bosses in the game, giving the player's much amusement of challenging.

Game Scenes

1. Scene-City Center

2. Scene-Factory

2. Scene-Cemetery

4. Scene- Pharaoh's Tomb

Game play:

1. Standby image

2. Task pass image

3. Plot production before the pass. Press "Start" to skip the plot

4. Game start image

5. Passes over. The rating interface

Adjustment of the Game Program Setting

Option	KEY1	Test (choose)
	KEY2	Confirm (replenish lotteries)
	KEY3	Confirm (modify)

Main Menu

1. Basic setting: Enter the basic setting interface
2. Adjustment setting: Enter the adjustment setting interface
3. Input test: Enter the input test interface
4. Output test: Enter the output test interface
5. Game reset: Enter the game reset interface
6. Date/time setting: Enter the date/time setting interface
7. Language: Switch languages
8. Revenue record: Enter the revenue record interface
9. Daily report: Enter the daily report interface
10. Back to game: Exit the back end and go back to the game interface

Basic Setting

1. Play for free: Choose the payment method
   Turn off: The player needs to insert coins
   Turn on: Press to start

2. Whether to feed lotteries: Choose whether to feed lotteries
   Turn off: No
   Turn on: Yes

3. Exchange lotteries with scores: Set the number of scores exchanged with 1 ticket
   0~30000Scope: 0-30000

4. The number of coins inserted in one game: Set the number of coins needed for one game
   Scope: 1-10

5. Save and return: Save the data and return to the previous menu

6. Return: Return to the previous menu directly

Adjustment Setting

1.1P Potentiometer adjustment: Adjust the 1P potentiometer
2.1P Potentiometer adjustment: Adjust the 2P potentiometer
5.1P Small water gun test: For continuous water shooting and adjustment of the water valve
5.1P Big water gun test: For continuous water shooting and adjustment of the water valve
5.2P Small water gun test: For continuous water shooting and adjustment of the water valve
5.2P Big water gun test: For continuous water shooting and adjustment of the water valve

13. Save and return: Save the data and return to the previous menu

14. Return: Return to the previous menu directly

Input Test

1. Insert coins 1: Test the 1P coin collector
 Turn off: No inserting coins
 Turn on: Inserting coins

2. Insert coins 2: Test the 2P coin collector
 Turn off: No inserting coins
 Turn on: Inserting coins

3.1P Confirmation button: Test the 1P confirmation button
 Turn off: No pressing
 Turn on: Pressing

4.2P Confirmation button: Test the 2P confirmation button
 Turn off: No pressing
 Turn on: Pressing

5. High water level test: Test whether the infrared high water level is triggered
 Turn off: No triggering
 Turn on: Triggering

6. Low water level test: Test whether the infrared high water level is triggered
 Turn off: No triggering
 Turn on: Triggering

13.1P Potentiometer X: Read the X value of the potentiometer 1P
14.1P Potentiometer Y: Read the Y value of the potentiometer 1P
15.2P Potentiometer X: Read the X value of the potentiometer 2P
16.2P Potentiometer Y: Read the Y value of the potentiometer 2P
17. Press the test button to exit: Press the test button to return to the previous menu

Output Test
1.1P ticket machine test: Test whether the 1P ticket machine works well
2.2P ticket machine test: Test whether the 2P ticket machine works well

3. Gun side light: Test whether the gun side lights on 4 positions work well

4.1P internal side light: Test whether the 1P internal works well
5.2P internal side light: Test whether the 2P internal works well
6.1P external side light: Test whether the 1P internal works well
7.2P external side light: Test whether the 2P internal works well

8. Water mist: Test whether the water mist works well

9. RGB light 1: Test whether the RGB light works well
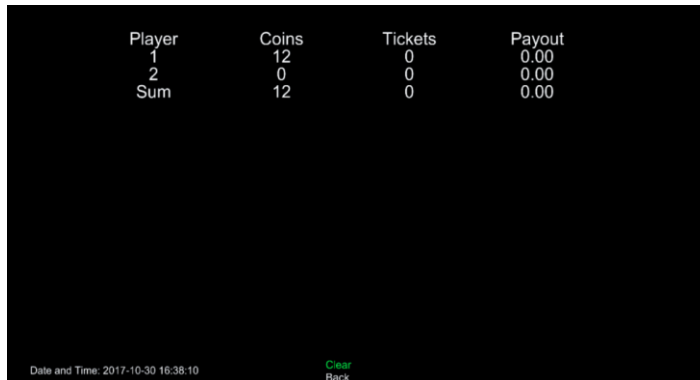
10. Seat light: Test whether the seat light works well

11. Return: Return to the previous menu

Game Reset

1. Restore to the factory settings: Restore all data and settings to the factory settings
2. Clear all data records: Restore all data records to the default settings
3. Clear the number of lack lotteries: Clear the number of lack lotteries
4. Clear unused coins: Clear unused coins
5. Return: Return to the previous menu

Date/Time Setting

Set the time of the machine

Check Game Data

Adjustment interface. Please adjust according to the prompt

Installation Figures and Steps

Small light

Ghost light

Large light

Ghost light connec tor

LCD power socket

LCD DVI signal

Seat connection
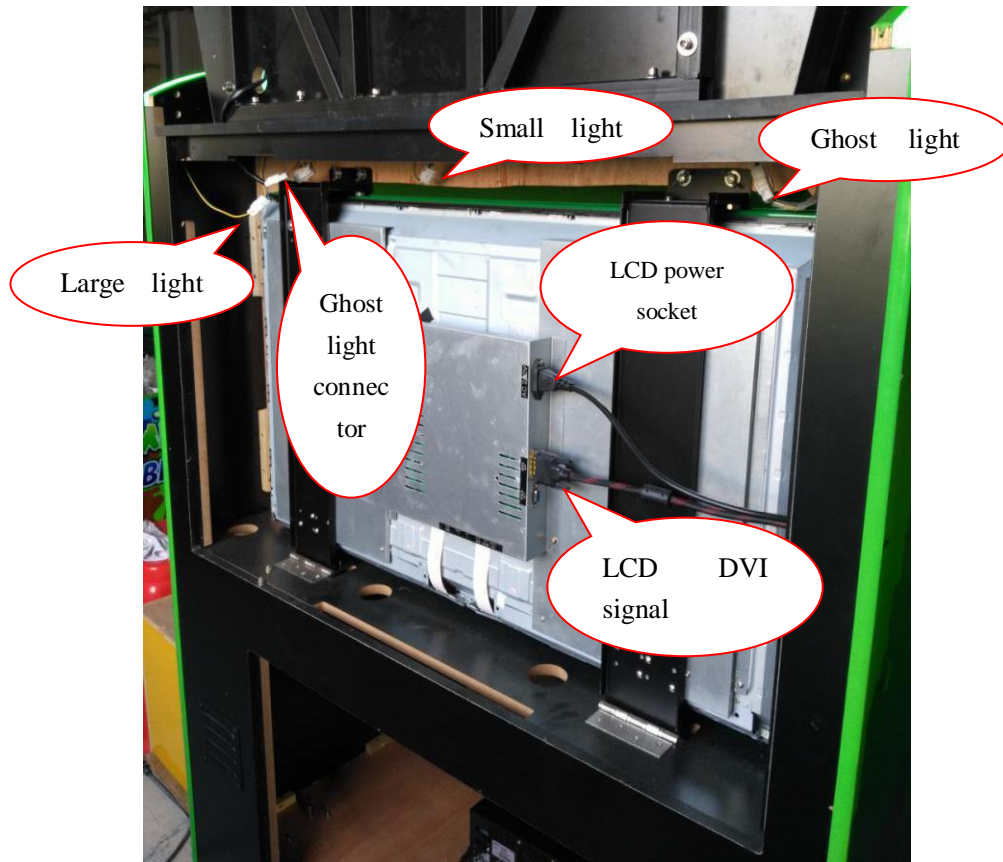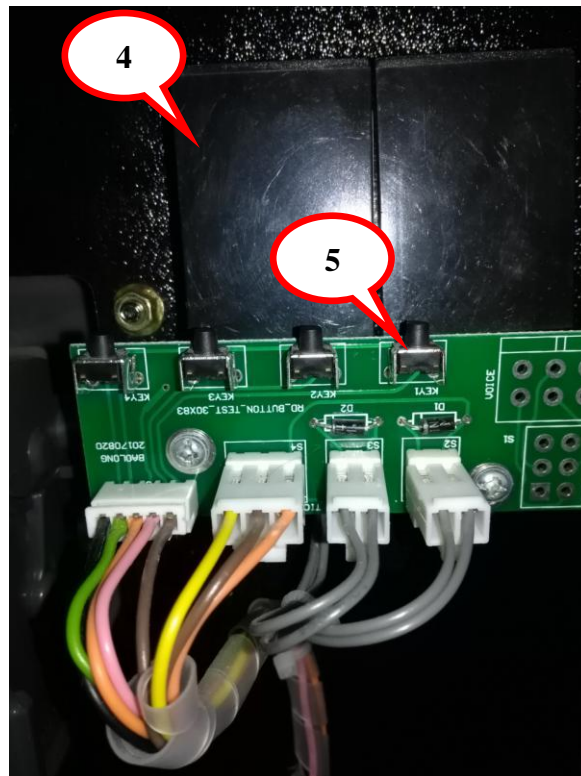
No.	Name	Specification	QTY
1	Speaker	Whole tone, 4 inch, 4Ω, 25W	2
2	ticket machine	TL TL-001 generation 3rd	2
3	Coin collector	TL TW-131	2
4	Counter	C-012 12VDC 18CPS (including diode)	2
5	KEY1	Test (choose)	1
KEY2	Confirm (replenish lotteries	1	
KEY3	Confirm (modify)	1	
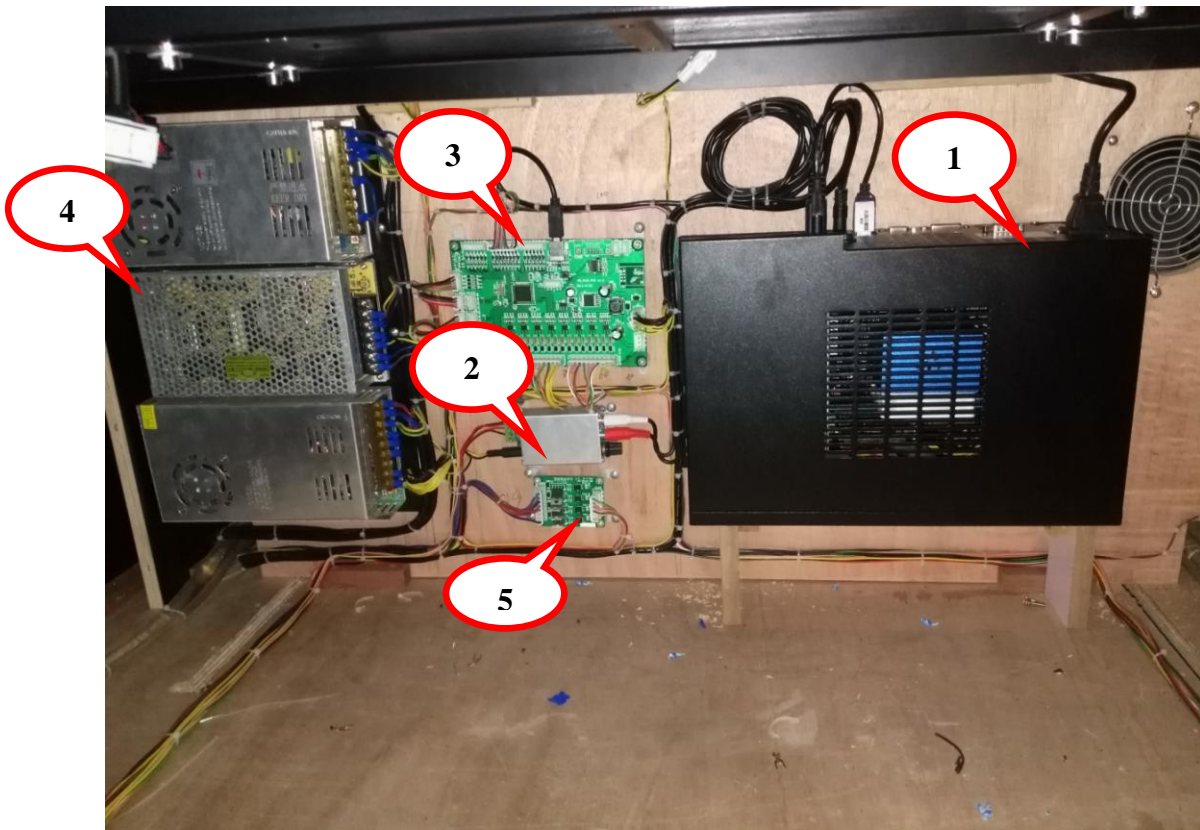
No.	Name	Specification	QTY
1	Industrial computer (mid tower)	（MT-A5235）A55/5300/ memory 2G*2 hard disk16G	1
	Memory	DDR3 4G	1
	GPU	R7350	1
2	2.0-A amplifier board	Y-218B	1
	Stereo audio cable	3.5 double RCA 3M*2	1
3	IO main board	MB-MINI..PCB V1.2	1
	Casing line	Zombie Outbreak in Chinese version	1
	USB data cable	Type A/B 1m	1
4	Upper mist power supply 48V	48V400W	1
	Middle solenoid valve power supply 24V	EPT-H150S24	1
	Bottom IO board and machine power supply box 12V	SPD-400W	1
5	Solenoid valve high-power driver board	MOS DRIVER.PCB V1.0	1

Potentiometer RP502

Potentiometer RP502 controlling the cursor left and right
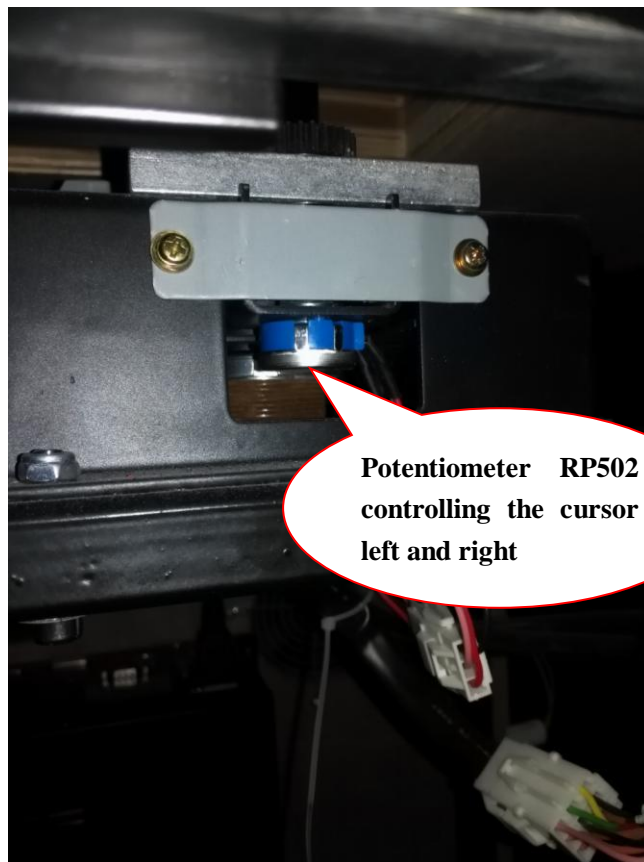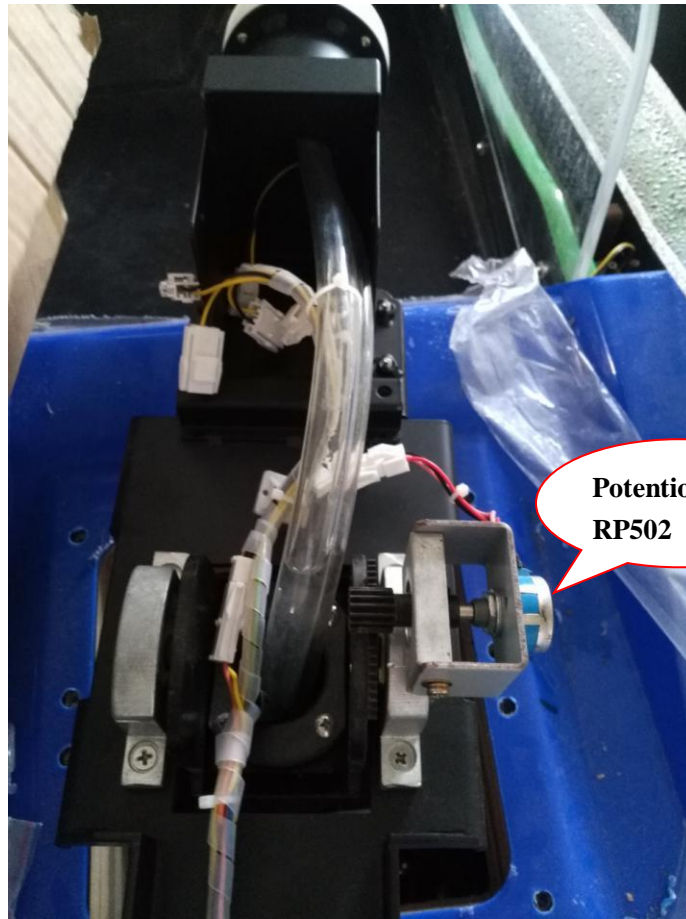
Zombie Outbreak Water Shooting
I/O Table V1.0

Input IO:

INPUT	Content	INPUT	Content	INPUT	Content
IN1		IN9	1P Ticket FeedBack	IN17	
IN2		IN10	2P Coins	IN18	
IN3		IN11	2P Start Button	IN19	
IN4		IN12	2P Ticket FeedBack	IN20	
IN5		IN13	Less Water Warning	K1	Test Button
IN6		IN14	Height Water Warning	K2	Server Button
IN7	1P Coins	IN15		K3	Ticket Repair
IN8	1P Start Button	IN16		K4	Sure Button

注: IN1-20 is standard input, 21-24 is setting input

Output IO:

OUTPUT	Content	OUTPUT	Content	OUTPUT	Content
OUT1	1P Ticket	OUT9	1P Inside Light	OUT17	1P Start Light
OUT2	1P Weak Water	OUT10	1P Outside Light	OUT18	2P Start Light
OUT3	1P Strong Water	OUT11	2P Inside Light	OUT19	Water Fog
OUT4	2P Weak Water	OUT12	2P Outside Light	OUT20	Water Pump
OUT5	2P Strong Water	OUT13	Seat Light	OUT21	
OUT6	1P Gun Light	OUT14	Machine Light1	OUT22	
OUT7	2P Gun Light	OUT15	Machine Light2	OUT23	Coins Table
OUT8	1P Ticket	OUT16	Machine Light3	OUT24	Ticket Table

注:OUT1-16 MOS output electricity not exceeding 2A; 17-24 ULN2803 output electricity not exceeding 50MA

INPUT	Content	Content
COM1 (J12)	TX	
	RX	
	GND	
COM2 (J13)	TX	
	RX	
	GND	

ADC IO:

INPUT	Content	Content
AD1-2 (J3)	+3.3V	
	AD1	1P AD X
	AD2	1P AD Y
	GND	
AD3-4 (J4)	+3.3V	
	AD3	
	AD4	
	GND	
AD5-6 (J5)	+3.3V	
	AD5	2P AD X
	AD6	2P AD Y
	GND	
AD7-8 (J6)	+3.3V	
	AD7	
	AD8	
	GND	

Communication IO:

INPUT	Content
COM1	
USB	
RF	

INPUT	Content	Content
S1-5 (J18)	GND	
	S1	
	S2	
	S3	
	S4	
	S5	
	5V	
	12V	

Very Important!

When the first time using the machine, it need to make sure has fill

enough water inside the Water Pump! Otherwise, the Water Pump

couldn't work properly!

At the first time using, if you find out the water gun couldn't shoot out

water properly after you fill water, very possibility, it's because it hasn't

enough water fill to the Water Pump. Please try the below steps for make

sure to full fill the Water Pump.
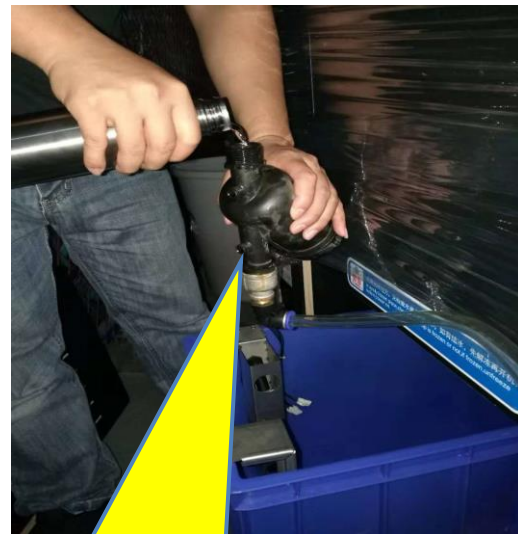

Step 1: Disconnect this cable connector

Step 2: Remove these 2 screws

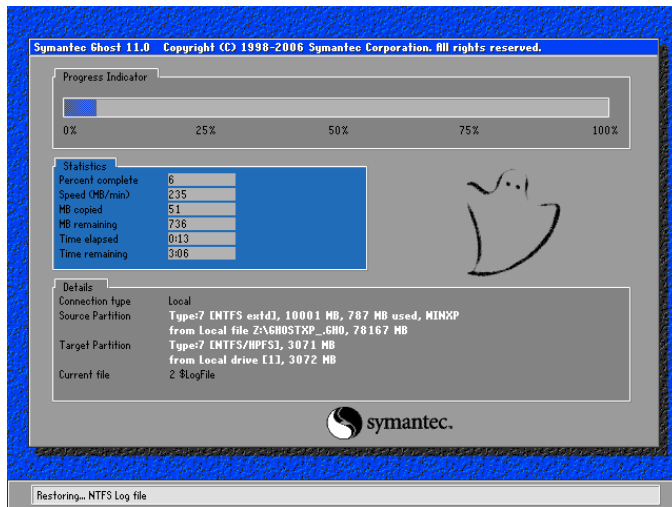**Step 3: Remove this wood block and pull out the Water Tank a little bit.**

Step 4: Take out this Filter

Step 5: Must full fill water in this Filter. And install it back to the machine.

Instructions on Restoring U Disk

When the machine is turned off, plug the U disk into the USB port behind the host, and the U disk will restore after the machine restarts. As shown in the figure, the system is restoring, and it needs about 20 minutes.

Complete prompt. The system restoring is completed as shown in the left figure, and you can unplug the U disk.

The system restoring needs about 20 minutes. Please do not cut off the power supply and wait patiently! Please forgive if there is any inconvenience!

 Attention: The above technical parameters are subject to change without prior notice.