

COSMIC BOWLING

MANUAL



Warning

- ✧ Please read the manual before installation and use.
- ✧ Please put the manual together with the machine.



ACE AMUSEMENT

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I、Machine Introduction and Features

“COSMIC BOWLING” is a new indoor medium and high-end bowling simulation game machine developed by our company. It features unique modern style and streamlined colorful lighting design, which is dazzling and eye-catching. With reasonable ergonomics design and man-machine battle, three major opponents with different personalities, intelligent AI, it's full of fun. It supports large-scale simulation bowling game for 8 players online battle; three different elements of the scene, impact the player's vision and reveal immersive fun; with camera function, the player's avatar is displayed in the game to increase the sense of immersion; players with excellent scores can enter the leader board for a sense of achievement.

1. Small machinery products;
2. The game play is novel, exciting, highly interactive, and highly entertaining;
3. The appearance design is artistic, the pattern is bright and delicate, and the used materials are solid;
4. Adopt integrated circuit, built-in program, stable working performance, safety and reliability;
5. Adapt to universal lottery tickets;
6. The independent host computer is stable and reliable

II、Specifications and Technical Parameters



- 1) Operating voltage: AC220V - 240V 50/60 Hz (or AC 110V $\pm$ 5%, 60Hz. For the specific voltage, see the nameplate on the machine.
- 2) Maximum power: 600W
- 3) Overall dimensions: W176 * D290 * H270 (cm)
- 4) Weight: About 260 kg
- 5) Ambient condition: Temperature (indoors): 0°C $\sim$ 35°C;
- 6) Humidity: $\leq$ 90%;

7) Atmospheric pressure: 86Pa~106Pa.

Warning: After turning off the machine, please wait 3 minute if you want to turn it on.

III、Accessory List

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

1. The accessory list is below:

S/N	Name	No./Specification	Quantity	Unit	Picture	Remarks
1	Power cord	10A/250V-3M	1	Piece		
2	Fuse	$\Phi 5 \times 20\text{mm}$ T5A 250VAC	1	Piece		
3	Manual	English	1	Copy		
4	Key	AA33	2	Piece		
5	Key	AA32	2	Piece		

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

IV、How to Handle and Position the Machine

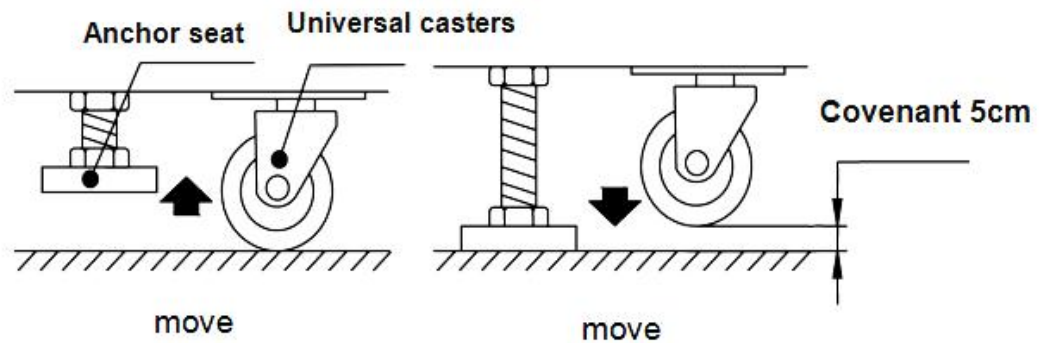
(I) Handling Method

The machine is equipped with caster under the base plate. When moving the machine for a short distance, you should raise foot to make the casters touch the ground and push the machine.



(II) Fixing method

Please place it on flat ground where it won't slide easily, loosen the locked nuts of the foot, tighten the anchor bolts with a wrench, and keep the caster approximately 5mm away from the ground.



(III) Product placement

Do not place the product in the following places:

- Do not place the machine in a humid place with high humidity;
- Do not place the machine near a hot object;
- Do not place the machine next to flammable items;
- Do not place the machine on a smooth or uneven ground surface;
- Do not place the machine near high-frequency vibration objects;
- Do not place the machine in the dusty areas.

Caution Please unplug the power plug before moving to prevent accidents and faults.

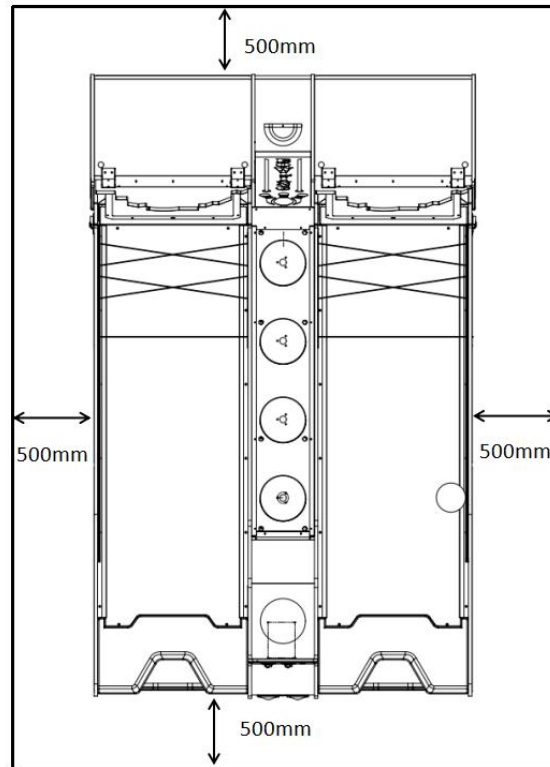
Please take care not to damage the power cord during moving to prevent accidents and faults.

Please raise the foot to the maximum height before moving to prevent accidents and faults.

V、 Installation Location Dimension

The machine should be placed according to the following dimensions for customers' safety and enough space to run the machine.

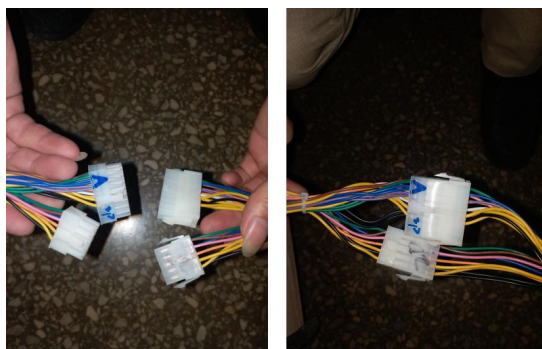
Game area:



IV. Assembly wiring and precautions

(I) Assembly and wiring of the machine

- (1) First divide the machine into four parts according to the figure 1 below and assemble them.
- (2) Align and install the part 1 and the part 2.
- (3) Then align the part 1 and the part 2 with the part 3. Before the installation, connect the thread of part 1-2 with the thread of part 3 as shown below and then put the wire into the machine to avoid affecting the connection of part 1, 2 and 3.



[1] When the part 1 and the part 3 are connected, connect the wire according to the corresponding number of bits interface.

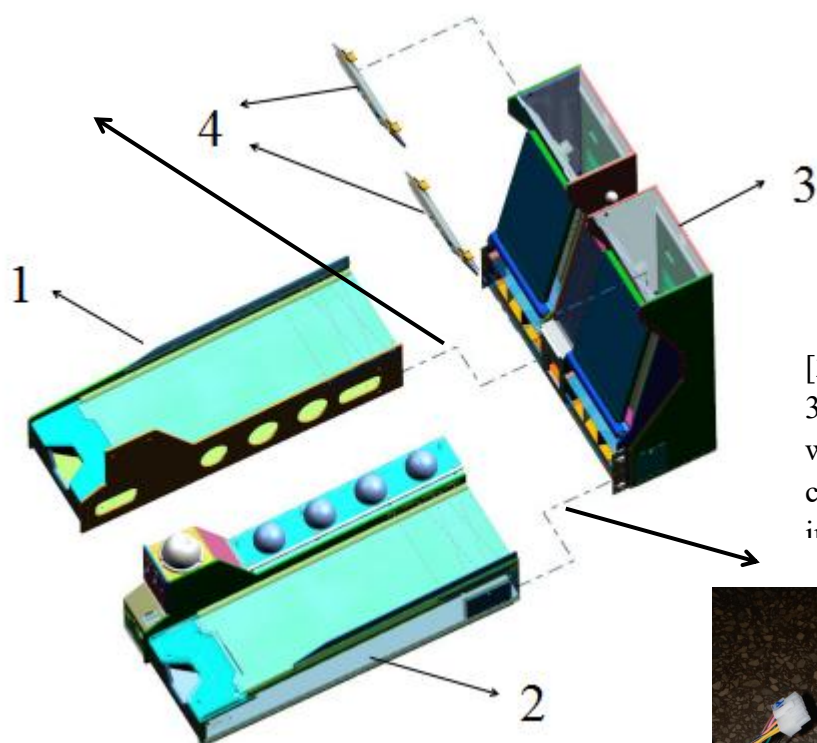
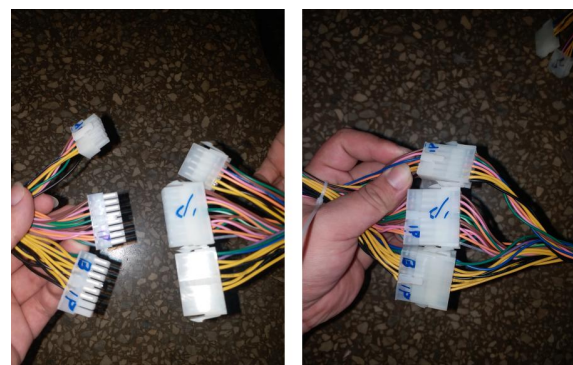
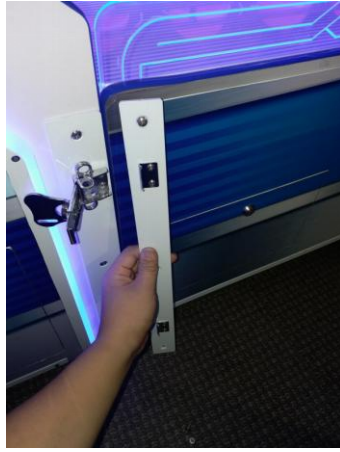
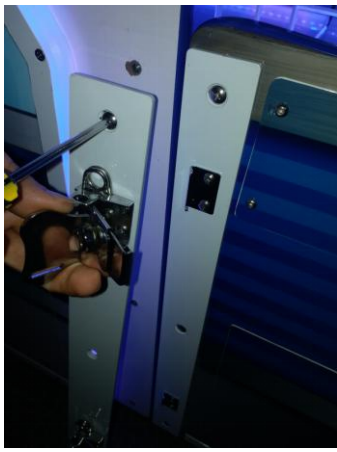


Fig.1

[2] When the part 2 and the part 3 are connected, connect the wire according to the corresponding number of bits interface



[3] Connect the machine as shown by the arrow in Figure 2.



[4] As shown in the above figure, the two plates with butterfly clasps are respectively installed at the joint of the machine. The left side is connected with the host part 3 with a sheet metal with a butterfly clasp. The part 1 and part 2 are connected with a sheet metal carrying hook.

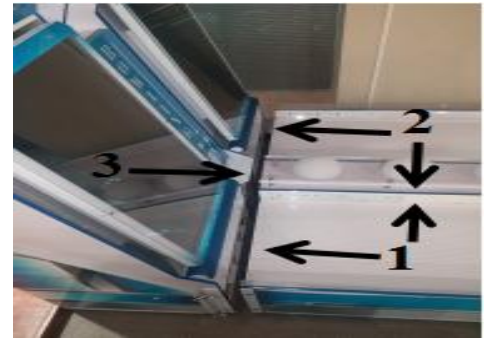


Fig.2



Fig.3

[5] Lock the butterfly clasp on both sides of the machine as shown in the arrow above.

[6] Tighten the screws as shown by the arrow in figure 4, 5 and 6.

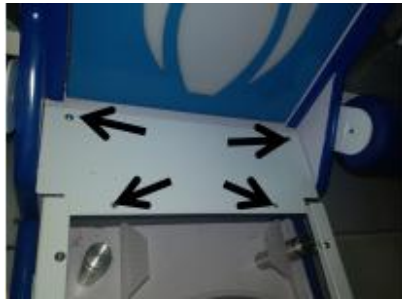


Fig.4



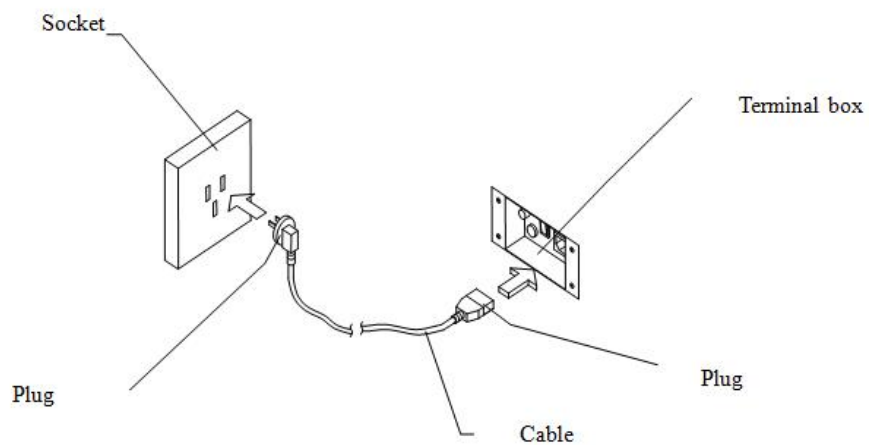
Fig.5



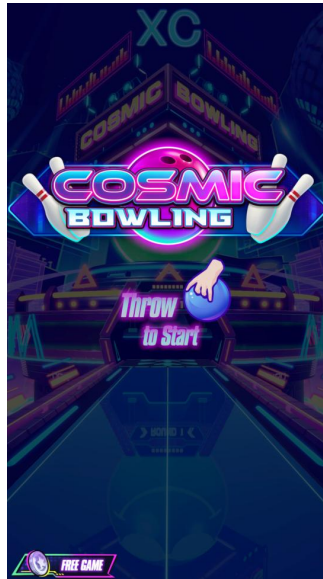
Fig.6

VI、 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 (110V or 220V) 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.



VII、 Game description

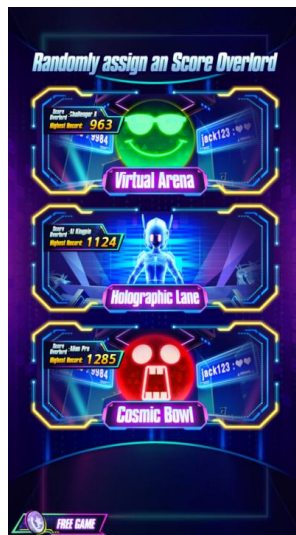


(I) Game UI:

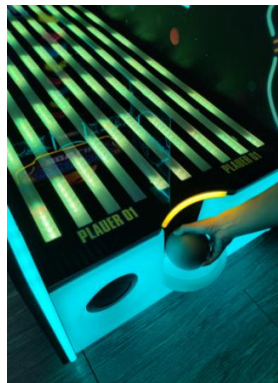


(II) Game play

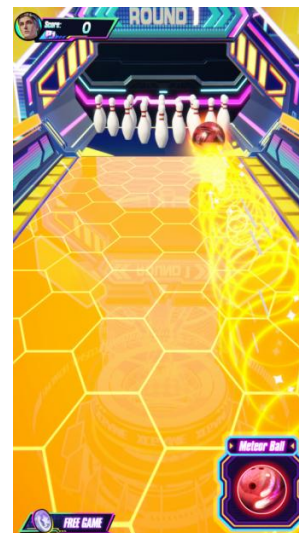
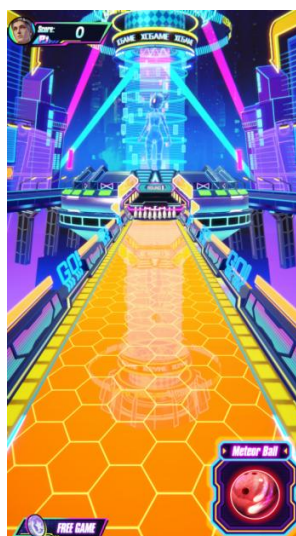
1. After inserting coins, the system randomly matches an alley, and you are about to challenge its Score Overlord.



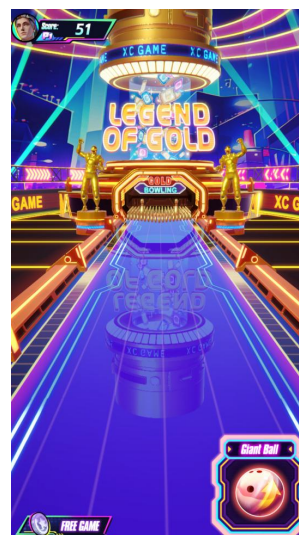
2. When the round starts, pick up the physical bowling ball and throw it quickly and accurately into the ball intake.



3. The bowling ball then appears on the screen and knocks down the pins.



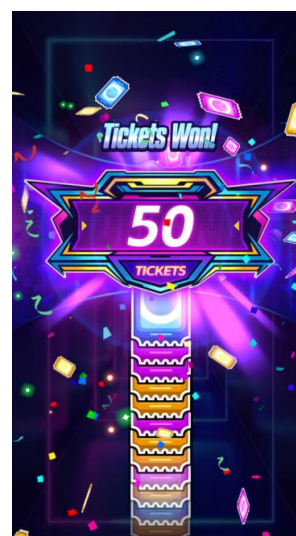
4. If you get a STRIKE (knock down all pins at once), you will get an extra chance to challenge the "Golden Triumph".



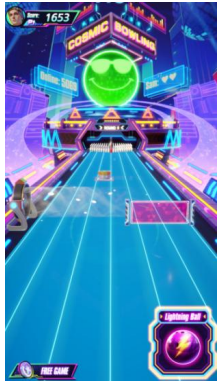
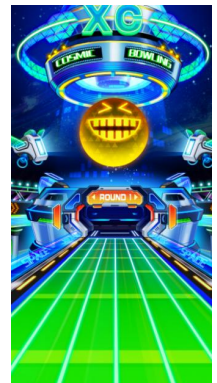
5. Special balls can be obtained each round to better deal with various obstacles on the lane.



6. After all rounds are finished, the score is totaled, and tickets are awarded.

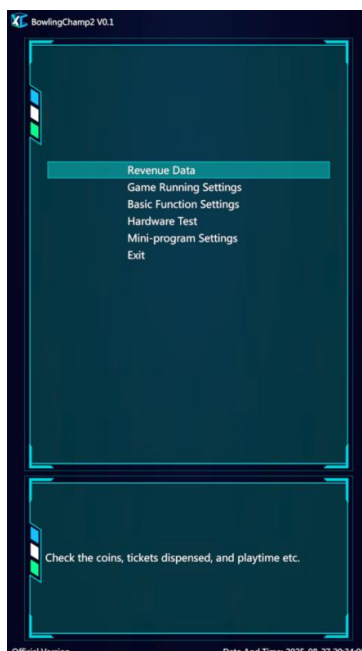


(III) Game Levels:

Alley Name	Score Overlord	Picture
Virtual Arena	Challenger X	
Holographic Lane	AI Kingpin	
Cosmic Bowl	Alien Pro	
Golden Triumph		

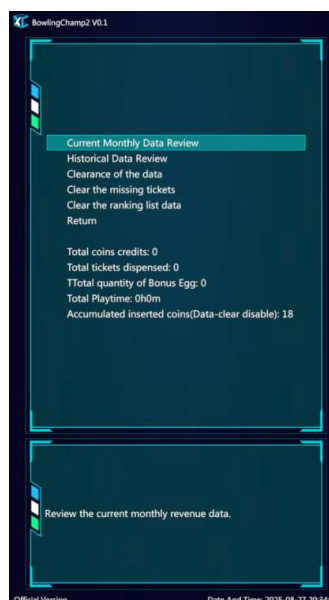
VIII、 Background description

【Main page】
Revenue Data: Check the coins, tickets dispensed, and playtime etc.
Game Running Settings: Set up the number of insert-coin per game, tickets-out, game difficulty, and other running sections.
Basic Function Settings: Set up the volume of the game, Standby music etc.
Hardware Test: Inspect the input and output function.
License Authorization: Input the CDKEY to activate the device.
Mini-program Settings: You can adjust the functions such as gift bonus, lucky bags, and more.
Exit: Save and exit from the background.



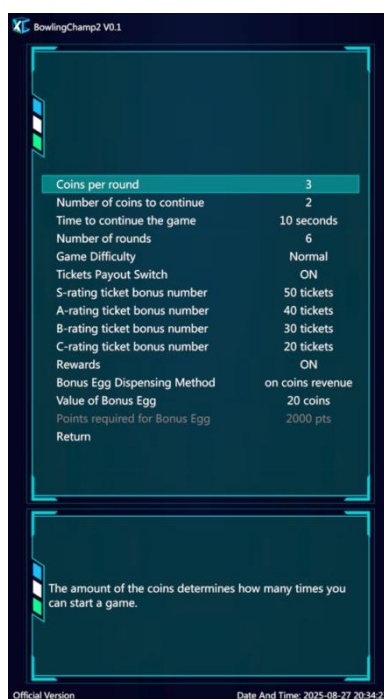
【Revenue Data】
Current Monthly Data Review (Confirm): Review the current monthly revenue data.
Historical Data Review (Confirm): Enter and select year to review revenue data by month; Select month to review everyday revenue data.
Clearance of the data (Confirm): Clear all the data, unrecoverable.
Clear the missing tickets (Confirm): Clear the missing tickets prompt.
Clear the ranking list data (Confirm): Clear the ranking list's ID and scores. Recovery is impossible after clearing.
Return (Confirm): Return to the background main page.

Total coins credits:
Total tickets dispensed:
Total quantity of Bonus Egg:
Total Playtime:
Accumulated inserted coins(Data-clear disable):



【Game Operation Setting】
Coins per round (1-99/ Free game): The amount of the coins determines how many times you can start a game.
Number of coins to continue (OFF/1-99): If the player inserts coins to continue within the limited time, then the game will continue with this number of coins (Usually the number should be smaller than “Coins per round”).
Time to continue the game(5-30 seconds): Set up time count-down to continue the game.
Number of rounds (1~9): Set how many rounds each game can be played.
Game Difficulty (Easy/Normal/Hard): Set up game difficulty.
Tickets Payout Switch (ON/OFF): Set up ticket payout.
S-rating ticket bonus number(0-999 tickets): Set up the ticket numbers when players achieve the S-rating.
A-rating ticket bonus number(0-999 tickets): Set up the ticket numbers when players achieve the A-rating.
B-rating ticket bonus number(0-999 tickets): Set up the ticket numbers when players achieve the B-rating.
C-rating ticket bonus number(0-999 tickets): Set up the ticket numbers when

players achieve the C-rating.
Rewards(ON/OFF): The winner will be rewarded one more game under the P1&P2 online mode if it's ON.
Bonus Egg Dispensing Method (on coins revenue/on scores/disable): set up ways of dispensing bonus egg.
Value of Bonus Egg (1-100 coins): set up the number of coins which are earned for returning ONE egg to player.
Points required for Bonus Egg (100 pts-100000 pts): set up points required to receive one bonus egg in a game.
Return (Confirm): Return to the background main page.



【Basic Function Setting】
Game volume (OFF/1-10): Set up game music and volume.
Standby Sound (ON/OFF): Set up if sound is played or not when the title and standby picture are played.
Save the game coins (ON/OFF): Whether the game cost is saved after shutdown or outage.
Date and Time Settings (set up): Set up the date and time of the cabinet.
Default Setting (Confirm): All options in the background will recover to the factory settings.
Return (Confirm): Return to the background main page.



【Hardware Test】
P1 Hardware Test
P2 Hardware Test
Bonus Egg Conveyor Motor
Return to the main page



P1 Hardware Test
[Output Detection]
Tickets out detection (5 tickets)
Detection of Bonus Egg (1PC)
Ball (1 pc) comes out
Sound Test: OFF/ON

Lane Light: OFF/Red/Green/Blue
Bowling motion track detection (ball out/ return): enter the motion track detection page to test. When player bowls out the ball, the white spot in the track will turn green, and finally change to be red spot to show the motion track.
Back to the previous page
Get back to the main page
[Input Detection]
Coin credits:0
Infrared signal 1: OFF/ON
Infrared signal 2: OFF/ON
Infrared signal 3: OFF/ON
Infrared signal 4: OFF/ON
Infrared signal 5: OFF/ON
Ball IR Detector: OFF/ON



Default setting
【Game Operation Setting】
Coins per round (3)
Number of coins to continue (2)
Time to continue the game(10 seconds)
Number of rounds (6)
Game Difficulty (Normal)
Tickets Payout Switch (ON)
S-rating ticket bonus number(50 tickets)

A-rating ticket bonus number(40 tickets)
B-rating ticket bonus number(30 tickets)
C-rating ticket bonus number(20 tickets)
Rewards(ON)
Bonus Egg Dispensing Method (on coins revenue)
Value of Bonus Egg (20 coins)
Points required for Bonus Egg (2000 pts)
【Basic Function Setting】
Game volume (5)
Standby Sound (ON)
Save the game coins (ON)
Company Icon (visible)

1 Installation and Commissioning

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

2. Appearance Inspection

To ensure the safe use of 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 requirements of the machine.
- 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 casters and the top foot are proper.
- Whether the machine is placed in the proper area.

3. Running Inspection

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

4 Maintenance

- Before operation, test run must be done before the machine is used;
- 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;
- The machine must be cleaned and maintained once a month.

IX、Fault Analysis and Troubleshooting

Common faults

Fault phenomena	Main cause	Corrective action
After the machine is powered on,(the power supply fan works), but the display is not on.	The monitor is not energized.	Please reconnect the power cable or replace it with new.
	The signal wire of the display is not connected or damaged.	Please reconnect the signal wire or replace it with new.
After the machine is powered on, nothing happens and the screen is not lit.	The power supply is inconsistent with the machine's parameters.	Please check whether the power supply is consistent with the machine's parameters.
	Fuse is burnt out.	Please replace the fuse.
	The power supply is not connected.	Please confirm 110V~220V power supply is connected and the power switch is on
	The signal wire of the display is not connected or damaged.	The signal wire of the display is not connected or damaged.
The machine is not powered on.	Check whether the input of the 110V~220V power supply is right. The short circuit is not allowed.	Please check whether the voltage of the circuit board inside the machine is abnormal.
The control panel is not powered on	Check whether the output of 12V 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 loosen due to vibration.	Please check the power supply circuit or replace the power line.
	The display is not on..	Turn on the machine again manually.
The power is off on the midway.	The circuit protector generates an action and the power switch is turned off (Note: The circuit protector cuts off the current when the abnormal current flows).	Please turn on the power switch again. When the circuit protector repetitively acts, it indicates that the machine is abnormal. Please contact the dealership.
After the product is powered on, the display is a white screen without any image or sound.	The host machine does not work.	Manually start the power start button of the host machine.
		The host power is bad or replaced.
		The motherboard memory bank is bad or replaced.
		The motherboard is bad. Please contact professional and manufacturer.
Pressing start key cannot start the game.	The start button holder is loose, and the switch line is loose.	The button holder is broken or replaced, the switch wire is pressed, and the start button switch is broken or replaced.
No response to coin	The coin collector is damaged.	Replace coin collector.

COSMIC BOWLING Manual

collector.	The signal line of the coin collector is loose.	Check if the signal line of the coin collector is loose.
	IO control board is damaged.	Replace 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 coin slot.
	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 the proper token.
	The gear of the switch (normally on and normally off) is incorrect	Please check whether the gear of the switch (normally on, normally off) is correct.
	The socket outlet of the coin connector is in poor contact.	Please check whether the socket outlet 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 the volume up.
	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 lottery fed.	The ticket machine goes wrong or the switch is turned on wrongly.	Please replace the ticket machine or set the switch to the factory settings.
Shooting is not accurate.	Check if the potentiometer of the gun is damaged.	Replace the potentiometer and re-align the gun.
No prize is out.	The prize machine goes wrong or the switch is turned on wrongly.	Please replace the prize machine or set the switch to the factory settings.

X、Error Prompt

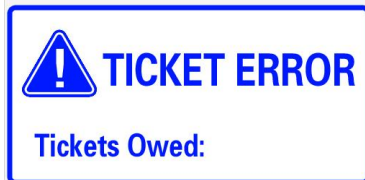
1. **Cause:** Disconnection with the IO board

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



2. **Cause:** No enough tickets, or the ticket machine is damaged

Solution: Replenish ticket; replace the ticket machine



3. **Cause:** The memory of the host is insufficient

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



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 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 randomly.**

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

- **Do not place vases, cups and 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 exhaust outlet of the machine.**

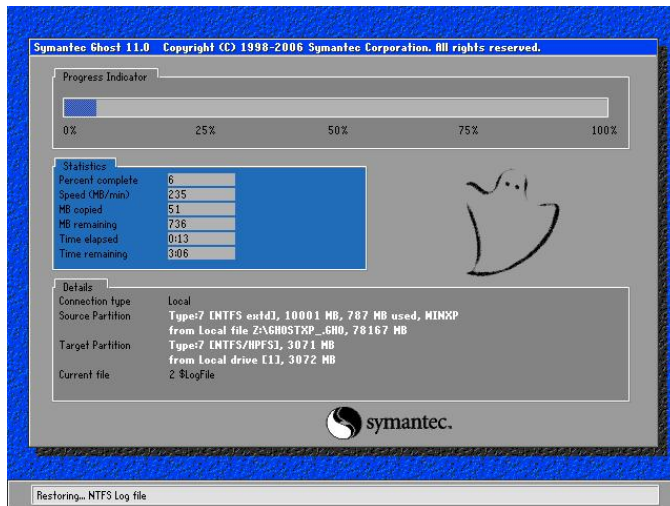
- The blocked exhaust **outlet** may cause temperature rise inside the machine, affect the

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.

XI、 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.



Prompt for system completion. 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. Do not cut off the power supply and wait patiently! Please forgive if there is any inconvenience!



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