

Operation Manual

Ultimate Disc (ticket version)



Warning

Before using and installing this product, please read this manual. Descriptions of machine Set and adjust, maintenance, technical points are very important. Reading this manual will help you better use this equipment, after reading make sure to keep it well for future check!

Preface

一、 Introduction:

In order to let you can quickly and accurately understand this machine, and correctly and safely use this machine, please read this manual carefully, I hope it can give you a good guide, personally open a new happiness

"Ultimate Disc" is a carnival lottery game machine developed by our company. This machine is generally used indoors. This machine game experience is simple and exciting, the rhythm is fast and easy to get started, attracting teenagers and adults of the mass age to play, this machine has a total of 3 games, each level of difficulty has increased. The gameplay is different for each level. Let me take you through the description of the various directories on this machine.

二. Feature:

- The game is simple and easy to use, easy to attract players to the game, the gameplay is simple and easy to understand.
- The mechanical mechanism is robust and durable. The company's infrared is imported infrared eyes, and the relay is also imported brands. To ensure that the machine to the customer stable and reliable.
- The control circuit is stable and reliable, and the program is stable after many years of practical use.
- Choose a high-quality lottery machine, suitable for general type coin-operated or transferable card swiping system.

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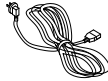
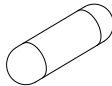
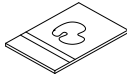
1.Product Specifications



Machine size (D*W*H)	2680mm*1060mm*2695mm
Packed size (D*W*H)①	1200mm*1160mm*2050mm
Packed size (D*W*H)②	1150mm*700mm*1050mm
Packed size (D*W*H)③	1140mm720mm150mm
Weight	380Kg
Voltage	AC 110V/220V
frequency	50-60Hz
MIN Power	350W
MAX Power	400W

Note: the above technical parameters are subject to change without prior notice

2. Accessories List

No.	Item	Spec	Qty	Unit	Picture	Remark
1	Wire	1.5M	1	PC		
2	Fuse tube	Φ6-20mm	1	PC		110V/220V/6A
3	Manual	A4	1	PC		
4	keys	GG168	2	PC		locks
6	hex wrench hex wrench	8mm	1	PC		Used to connect the front and rear enclosures
7	Disc	Diameter Ø200mm	15	PC		
8	screw kit		1	bag		

Note: this list is for reference only, subject to the actual shipment list.

3、 Safety Precautions

⚠ Be sure to consult an industry expert when setting up the machine. You cannot set up machines for people other than industry experts.

⚠ When installing this product, all 4 feet must be evenly placed on the floor, and ensure that the product is

⚠ installed in a stable horizontal position. Unstable

⚠ installation may result in machine injury or accident

⚠ Do not use too much force on the movable parts when installing this product. Otherwise it will damage the product or cause injury or accident to people

⚠ This product is for indoor use only.

⚠ You can't leave the game near the emergency exit.

⚠ Protect the game machine from the following effects:

1. Wet or wet places.

2. In direct sunlight.

3. Dangerous and flammable substances.

⚠ Chemicals or beverage solutions must not be placed above or near the game machine.

Do not place objects near the vent.

Do not stretch or twist the power cord by force.

Do not insert or unplug the power box in damp condition.

⚠ The voltage must be used within the specified range.

Do not place the power cord where the person in the aisle is walking.

⚠ Be sure to see through the contents of this product manual.

⚠ For proper ventilation, keep the game machine 300mm away from the wall.

⚠ Do not change the system or connector in the machine without permission. Once some parts of the machine are changed, the machine will cause irreparable damage.

4、 Precautions for placing, fixing, moving and electrifying

4-1.Precautions for placing:

A. This machine is suitable for indoor use, in the outdoor use must pay attention to waterproof sun, in order to avoid the machine life shorten, cause damage.

B. The machine must be placed in a clean and tidy place with flat floor.

C. To avoid unnecessary damage to the appearance of the machine, a space of at least 500mm must be reserved around the machine setting area. The machine reserve range is shown in the Picture below:

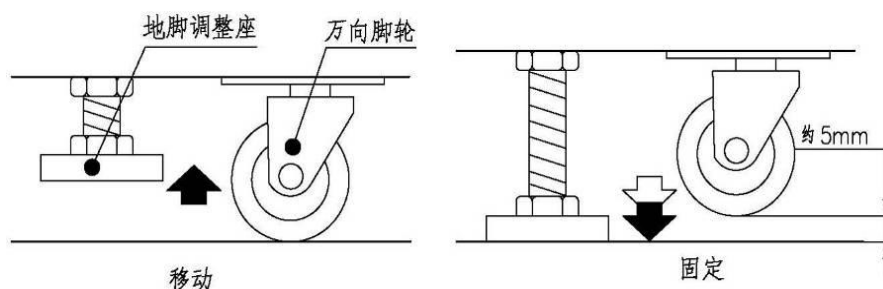


D. Do not use the machine in the following places, For example:

1. The machine should not be near the place of dangerous goods.
2. The machine should not be placed on the smooth and uneven ground.
3. The machine should not be placed in a dusty environment.
4. The machine should not be placed in a humid environment.

4-2.Fixation and Movement

The machine must be placed on a flat ground and the top foot must be longer than the sliding castor, then it can be placed steadily.



4-3.Handling method:

1. The power supply must be turned off before handling, and the power cable must be unplugged. If long-distance transportation is required, the surface must be covered with

a layer of soft cushion for scratching.

2. Note that the machine can not be moved at will, transportation, etc., which will cause the machine to damage the parts.

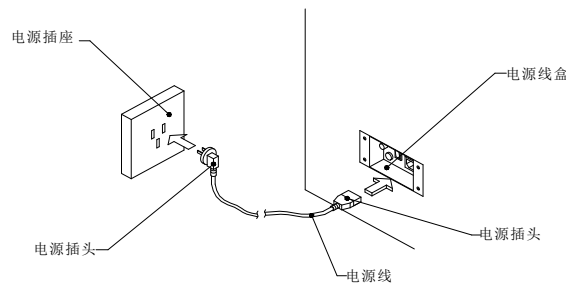
3. Confirm that in the process of moving, transportation, etc. to meet the requirements of the manufacturer.

4-4. Wire Connection

Firstly, find the power box below the back of the machine to ensure that the fuse in the power box is intact. If the fuse is not damaged, then insert the power cord into the hole and the power box can be energized.

Warning: before the machine is powered on, make sure that the fuse is installed in place and the circuit is normal.

Warning



- The power line should not be pinned down by heavy objects, which may damage the power line and easily lead to short circuit. In serious cases, it may lead to fire.
- When pulling the power cord from the socket, pull it out by holding the plug instead of the cord.
- Do not pull the plug out directly with wet hands.
- Do not stretch or twist the power cord. Do not expose the cord to hot objects.
- The power cord should not be easily kicked or touched.
- Use correct voltage and fuse (refer to technical parameters).

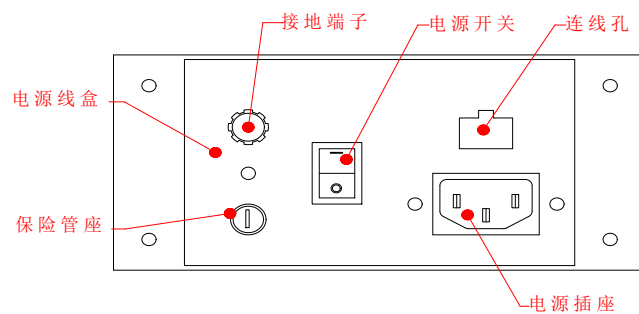
4-5 Main power switch box:

A. The machine voltage is suitable for AC110V or AC220V.

B. A safety device is installed in the safety device, the specification is "220V 6A" "110V 10A" diameter: 6mm;

C. The ground terminal is connected to the dedicated ground cable, and the ground resistance is less than 0.5 ohms.

D. The power switch is used to turn ON or OFF the power supply. When the power switch is turned on, the power switch is turned off when the power switch is turned off.



5、 Complete machine parts description

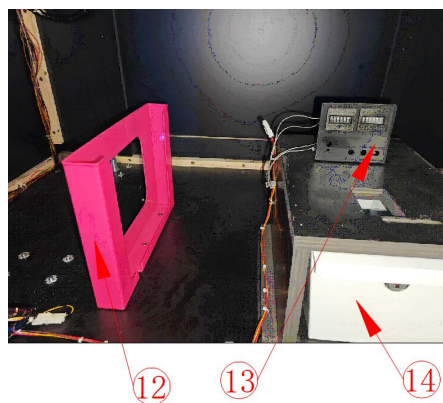
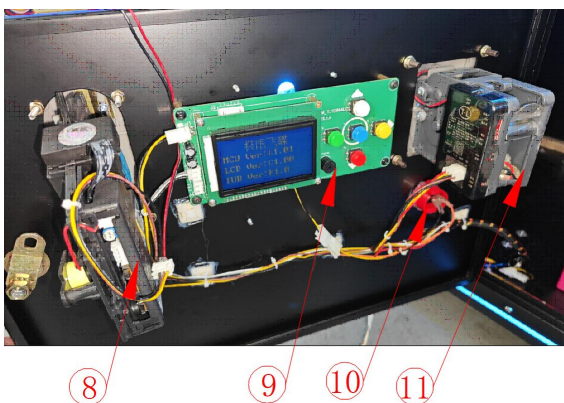
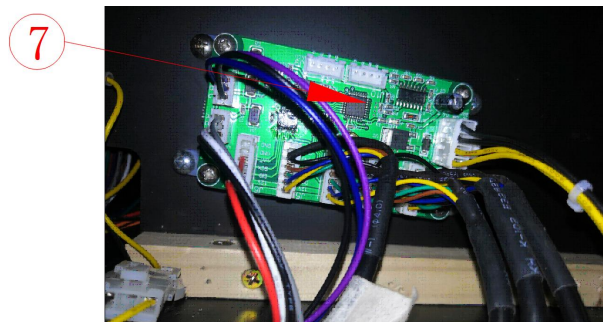
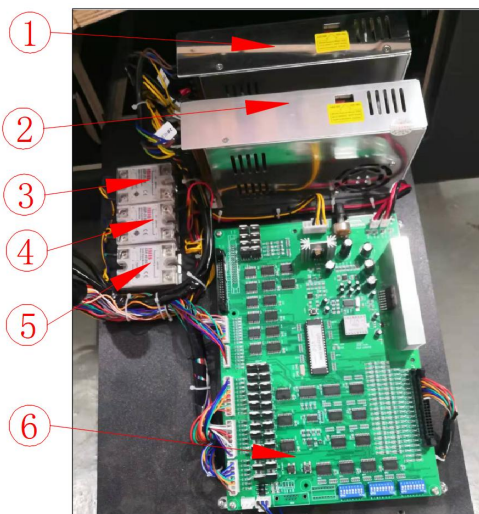
5-1、 External structure:

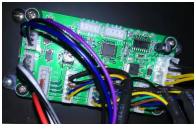


NO	Name	Picture	Appearance Details about the components
1	light box		Mainly used for decoration and breaking the highest time of the lighting effect
2	Main play area		This includes target, target frame, target score digital version and score digital version
3	Belt assembly		Belt assembly is mainly used for transporting disc

4	left organic		This organic play instructions as well as the player's score and lottery rating table
5	Trap outlet		This is the outlet of the disc and can also store the disc
6	Front door assembly		Lottery machines and coin machines are included here
7	Right-sided organic		This includes the Start button, game number/game time digital version, and maximum score digital version
8	claw belt		This latch is mainly used to lock the console and the rear section of the machine

5-2、 Internal structure composition:



NO	Name	Picture	Detailed description
1	power box 1		The power box is 12v, which mainly supplies power to the light box
2	power box		This power box is 12v+5v, mainly for the machine motherboard. Infrared. Light strip and other electrical power supply.
3	Ac solid state relay 1		This relay controls the belt to transport the disc outwards
4	Ac solid state relay 2		This relay controls the belt to carry the Frisbee inward
5	Dc solid-state relay		This relay controls the flashing effect of the light box
6	Main board		The motherboard is the brain of the machine, and all the signals are sent by the motherboard. If a signal somewhere in the machine is found to be abnormal, we can determine the cause of the problem by checking the input and output ports of the motherboard
7	Display extended edition		This board mainly accepts the instructions of the motherboard to control the score changes of the digital version everywhere, so that the player can understand the machine more intuitively
8	Coin operator		You can start the game by investing your token here
9	LCD screen sets the key pad		This is the background setup board of the machine. For details, see item 7: Background Settings
10	Repair button		When the machine report ticket is insufficient, add the ticket and press this button to repair the error
11	Ticket dispenser		Tickets that settle at the end of the game are given away
12	Lottery box		Store the lottery ticket (this batch of different colors may be different, subject to the actual object on the machine)

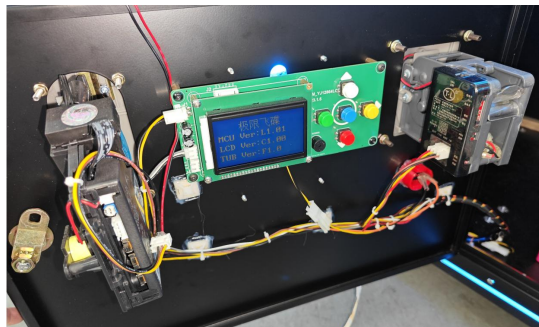
13	Code table element		The code table is a value that records the revenue of the machine, and the revenue of the machine can be clearly known by recording the change of its value
14	Coin Box		This is where the tokens are stored

6、 How to play

1. insert the coins or IC card
2. press the button to start the game.
3. Throw the disc into your goal . More hit, more points.
4. Win the tickets when game over.

7. How to adjust the machine

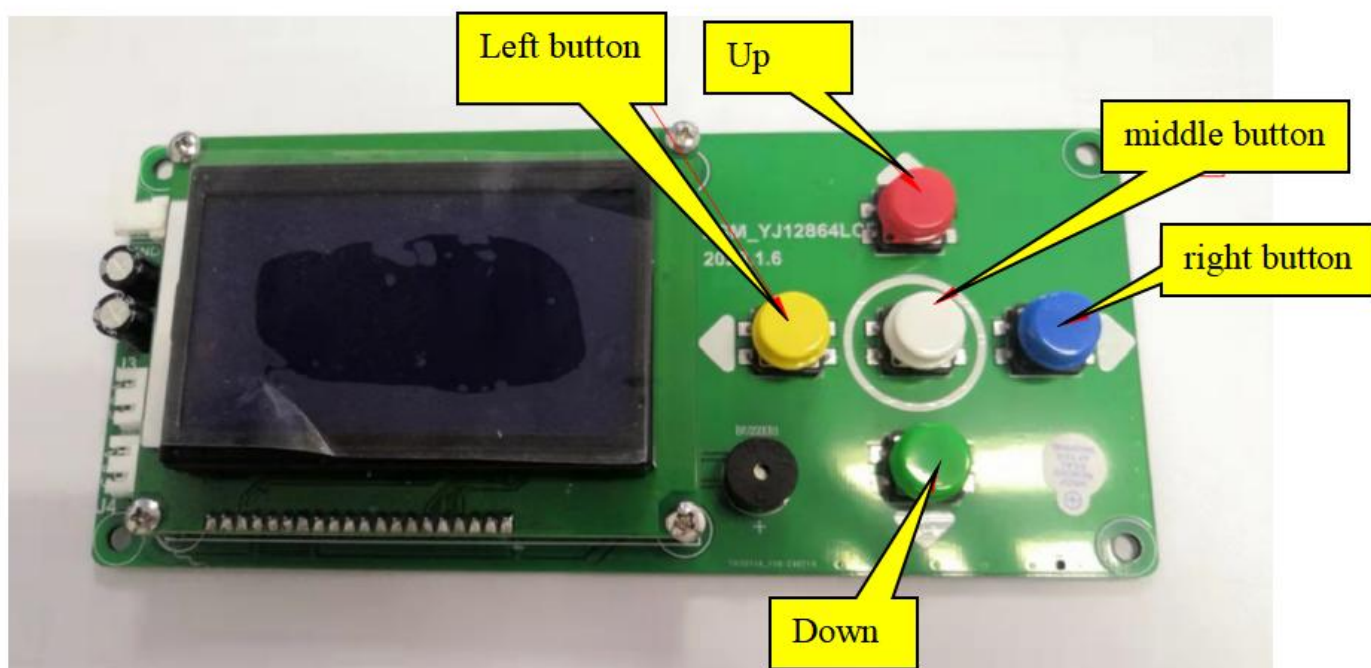
Step 1. First use the MLF168 key control console box door



Step 2. Locate the keypad on the LCD setting screen and hold down the middle key for 5s to enter the background setting. Press the up/Down key to switch the next or previous item. See the table below for details of button usage and background Settings:

《Ultimate disc》 Setting sheet-V1.00

Button function	Hold down for short function	Long press the function for 5 seconds	
Up	up	Clearing	clear the existing lottery tickets and coins and the remaining number of games to play
Down	down	TEST	In this function, you can press [Down] to proceed to the next test. Test sequence: 1. LED test, 2. Sound test, 3. Input test, 4. Output test.
left button	reduce -	version infor	Display the machine version information
right button	Add +	DATA	view the number of coins, the number of lottery tickets, the highest score times, online bonus times;
middle button	confirm	parameter setting	In this function, press [Up] to go to the previous parameter and [Down] to go to the next parameter. Press [left button][right button] to adjust the value or status of this parameter. Long press [left button and right button] to rapidly increase or decrease the value. After setting, you can press [middle button]



《Ultimate disc》 Setting sheet-V1.1

details	range	Factory Settings	Remark
language option	0-1	0	0: Chinese, 1: English
Restore Factory Defaults	0-5	0	0-4: no, 1: yes
Ticket Out	0-1	1	0: no, 1: yes
Memory Save	0-1	1	0: no, 1: yes
Game Music	0-1	1	0: no, 1: yes
Standby Music Setting	0-100	5	0: no, >0: Play every minute at this interval
Coins per game	0-10	1	0 means free, >0 the coins per game
< Level 1 > Play time	15-40	20	Time per game (seconds)
< Level 2 > Play time	15-40	20	Time per game (seconds)
< Level 3 > Play time	15-40	20	Time per game (seconds)
highest score - N game-reduced 10 points	0-20	5	0: no, >0: The number of innings after the maximum score automatically adjusts to 10 points
tickets table selection	Difficult, medium, easy	medium	Note: This setting is to adjust the total score, when the game time is set to a long time, you can set the difficulty to "hard", at this time the score value of each target will be reduced, the player's score will be reduced to reduce the ticket.

Attachment 1: Details of the background test are as follows

NO.	Setting content
1	Long press [Down] to enter the background test. First, the digital version of the test program: At this time, all nixie tubes first display 8.8.8.8, and then flash in the sequence of 1.2.3.4.5.6.7.8.9. Finally, all Nixie tubes display 8888 and stop. This test digital tube is normal display (all bright, missing, etc.).
2	Press [Down] again to enter the sound test, then press to switch the next piece of music. This is used to test whether the pieces of music are normal
3	Press [Down] again to enter the input part of the test, connect the corresponding input signal, the score digital tube will display the corresponding number (for example, the coin will display 01, so as to check whether the input signal is correct) other display 33, all the digital tube blink three times and stop. This is used to test whether the input signal is normal
4	Press [Down] again to enter the output part test: at this time, 1 to 40 outputs are connected for 1 second one by one in order (this test detects whether all outputs run normally), and the score digital version displays the serial number of 1 to 40 outputs in the connected order. The rest of the digital tube display 4444, digital tube all flicker three times and then stop. This item is used to test whether the output signal is normal

8、 Instructions for use and maintenance

In order to avoid short circuit, the relevant personnel should turn off the power supply before contacting the internal components of the machine. If the power supply needs to be switched on in this operation, it should comply with the requirements of the operation manual.

1. The power supply must be turned off when the machine is maintained and repaired.
2. When replacing components, select appropriate components to avoid short circuit and damage to the mainboard and components.
3. Do not remove, assemble, or change the device at will.

This may lead to electrical short circuit, mechanical failure, etc.,

serious cases may lead to fire.

4. Do not place vases, cups, containers, etc. with water on the machine, and do not place chemicals and heavy objects on the machine. The spilled liquid will cause short circuit of electrical appliances and damage devices. At the same time, falling objects from high altitude will hurt people and damage machines.

5. Do not place items at the vent of the machine. When the vent is blocked, the internal temperature of the machine will rise, which will affect the normal progress of the game and even damage the device.

6. The machine cannot be repaired at will. This may cause faults such as short circuit or out-of-control operation.

8.1 Maintenance description of common faults

Ultimate Disc Error code table-V1.00					
Error code	Error description			Description	
HELP	A lack of tickets or a malfunctioning lottery machine	E06	Target 6 detects failure	The target numbers are 1.2.3.4.5.6.7.8.9 from left to right and from top to bottom. As follows	
E01	Target 1 detects failure	E07	Target 7 detects failure		
E02	Target 2 detects failure	E08	Target 8 detects failure	1	2
E03	Target 3 detects failure	E09	Target 9 detects failure	4	5
E04	Target 4 detects failure	E10	The host failed to communicate with the TUBE board	7	8
E05	Target 5 detects failure	E11	The communication between the host and the LCD fails	9	

8.2 Maintenance description of common faults

fault code	problem description	Easy troubleshooting
	The coin slot is faulty	Tokens are invested, the mechanical code watch and the number of coins on the screen show whether there is a number jumping when the number does not change: 1. Please check whether the coin-operated cable is loose; 2. If the operating indicator light of the coin is on but the coin cannot pass through, please try to replace the mother coin on the coin; 3. Coins can pass through the coin slot, but the system does not count, please try to replace the motherboard or coin slot.
	Start button failure	When the button function fails: 1. Check whether the button cable is loose. 2. Replace the button or main board with a new one.
error HELP	Ticket shortage or lottery machine malfunction	Add tickets or replace lottery machines
error E01-E09	Target detection faults (Target sequence numbers from left to right and from top to bottom are 1.2.3.4.5.6.7.8.9.)	After entering the input test, swing the target to see if there is a numerical change in the digital version. If there is no change, follow the following steps to detect 1. Check whether each port cable is loose. 2. Try replacing the target's metal
error E10/E11	comm error	1. Check whether the communication port between the main board and the conversion board is loose. 2. Check whether the power box is damaged. 3. Replace the main board or conversion board.

9.How to install (Machine installation instructions)

Tips 1: Please check whether there is one after you receive the machine

The main box (as shown in Picture A), console box (as shown in Picture B), and light box carton (as shown in Picture C) are three pieces.



Picture A Main box (with some components)



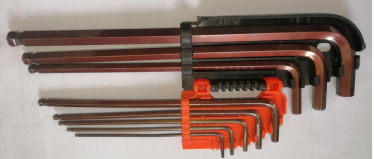
Picture B Console box (including machine accessories)



Picture C Light box carton (including light box assembly)

Note: Due to the large and heavy parts of the machine, it takes two to three people to assemble the whole machine

Tips 2: The tools required to install this machine are as follows

NO	Tool Name	Qty	Unit	Tool Picture
1	cross-head screwdriver	1	pc	
2	8-10 open end wrench	1	pc	
3	Hexagonal Socket	1	kit	

Note: Please prepare your own tools before starting the installation

Here are the detailed installation steps:

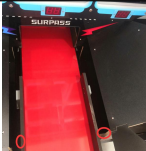
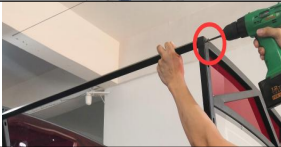
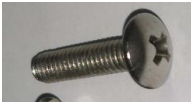
Step 1:

1.1 First, open the package of the body, take out the parts inside and put them in a clean place, and find the screw bag in the accessory bag. See attached table for details of parts and screws. Below is a picture of the main box



Screw kit - Use and quantity:

NO	Screw use	Tag code	Picture	Screw type	Qty	Picture

1	Belt plank fastening	A		M6*40	2	
2	The belt is fixed at the outlet of the DISC	B		M6*12	2	
3	Square pipe frame below	C		M5*16	8	
4	Above the square pipe rack	D		M6*40	2	
5	Secure the side plate of the square pipe support to the PC plate	E		M4*8	8	
6	Light box beam square pipe	F		M6*40	2	
7	Light box fixation	H		M6*40	4	
8	bilaterally			M4*16	14	
9	Cover wire sheet metal	G		M4*16	4	
10	Belt outlet inclined plate	I		M4*8	4	

The following table lists the names and quantities of main box components:

NO	Name	Material	Qty	Unit	Picture
----	------	----------	-----	------	---------

1	ramp	PVC	2	pc	
2	organic	PC	2	pc	
3	Overhead organic	PVC	1	pc	
4	Light box beam	Black square tube 20*20	1	pc	
5	light box	assembling unit	1	pc	
6	metal plate	Black sheet metal	2	pc	
7	Exit ramp	Black sheet metal	1	pc	

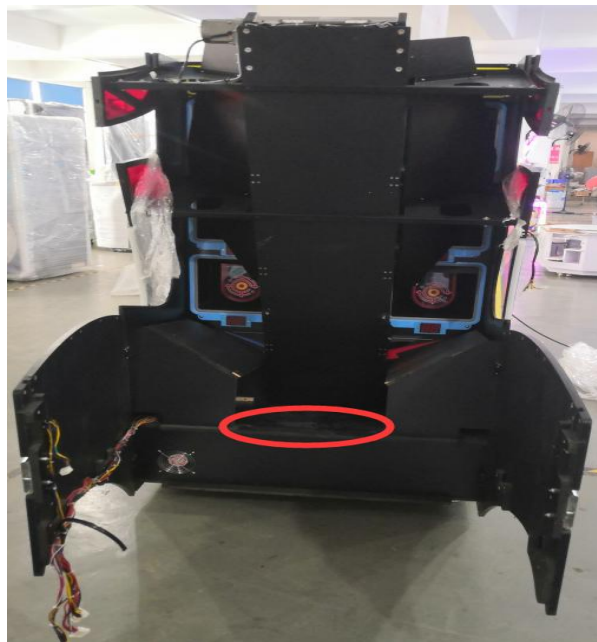
Step 2:

2.1 Open the two side doors as shown by the arrows in Picture 1 below. This opens as shown in Picture 2

Remove M6*40 black combination screws on the board and store them for later use. The location is shown in the red circle in Picture 2 below



PICTURE 1



PICTURE2

2.2 At this time, one person holds the square tube on the belt mechanism in front of the belt mechanism to support it (as shown by the arrow in Picture 3 below), and the other person quickly removes the four M6*50 screws fixing the belt mechanism on both sides (as shown by the red circle in Picture 4 and 5 below).

Note: M6*50 screws are only used for the transportation, packaging and fixing of the square pipe frame, and are not needed by the running machine.



Picture 3



Picture 4



Picture 5

2.3 At this time, the belt mechanism can be slowly lowered until it is stuck into the slot on the side plates on both sides (as shown in Picture 6.7.8.9.10 below).



Picture 6



Picture 7



Picture8



Picture 9



Picture10

2.4 Lock the two M6*40 black assembly screws removed in Step 2.1 at A (as shown by the arrow in Picture 11.12).



Picture 11



Picture 12

2.5 Remove the two M6*12 color zinc combination screws at the front end of the belt mechanism first and put them away, which will be used later. (As shown in Picture 13 below)

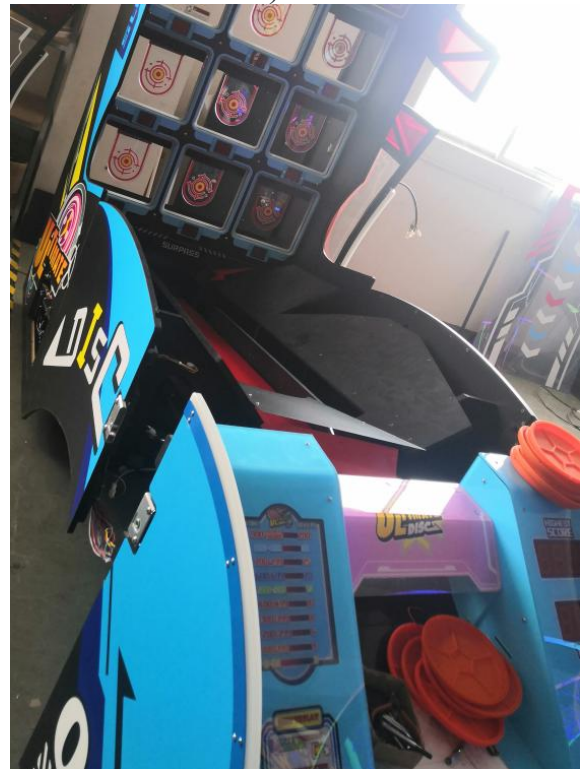


Picture 13

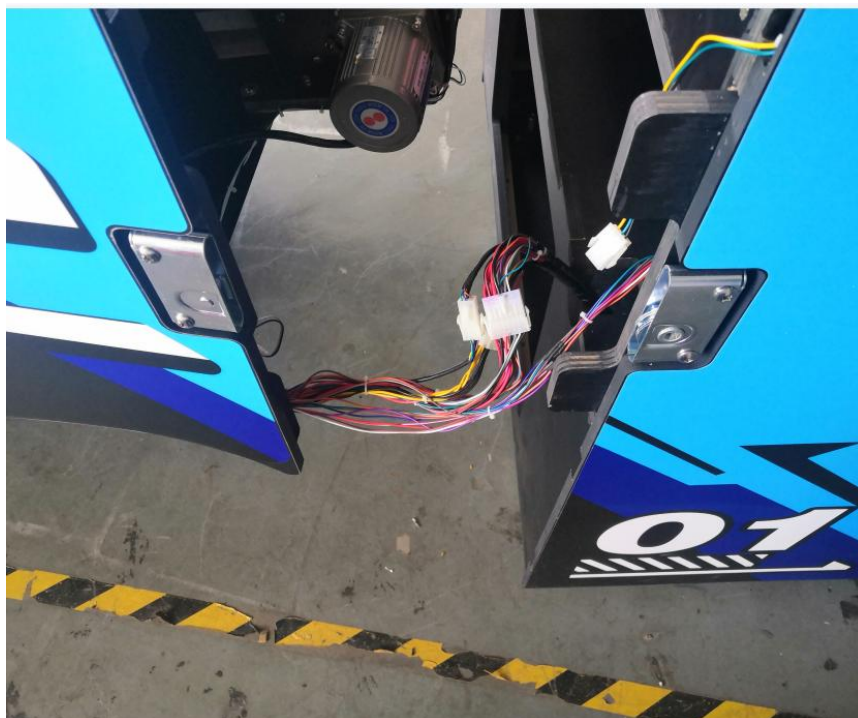
Step3: 3.1 Unpack the console chassis and put the accessories out first. Put the fuselage and console case together, and first plug the connection port between the console and the main case (as shown in Picture 14.15.16 below).



Picture 14

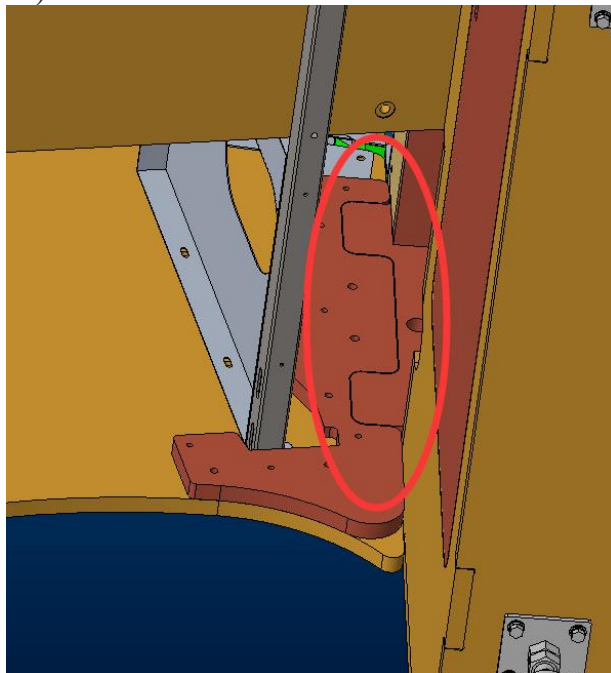


Picture 15

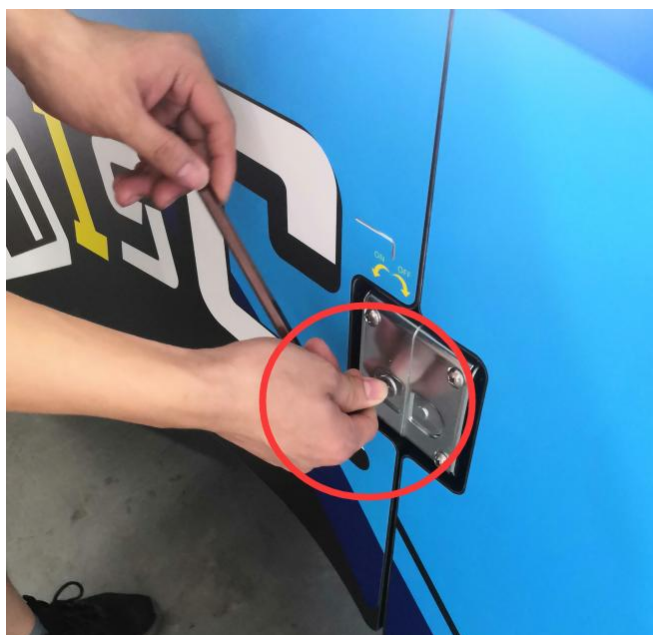


Picture 16

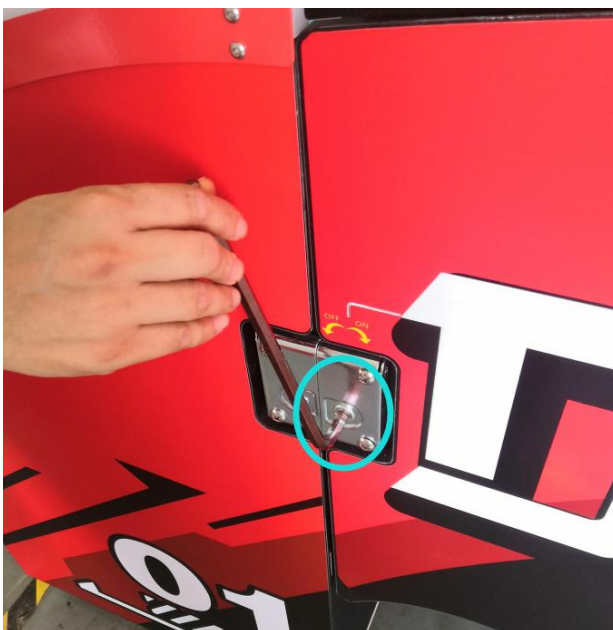
3.2 Connect the convex board of the console to the concave board at the junction of the main box, splicing and closing. Use an 8mm Allen wrench to lock the latch (as shown in Picture 17.18.19 below)



Picture 17



Picture 18



Picture 19

3.3 Finally, use two M6*12 colored zinc combination screws to lock the belt mechanism at the outlet of the DISC and the control console (B) (B) as shown in the arrow in Picture 20 below).



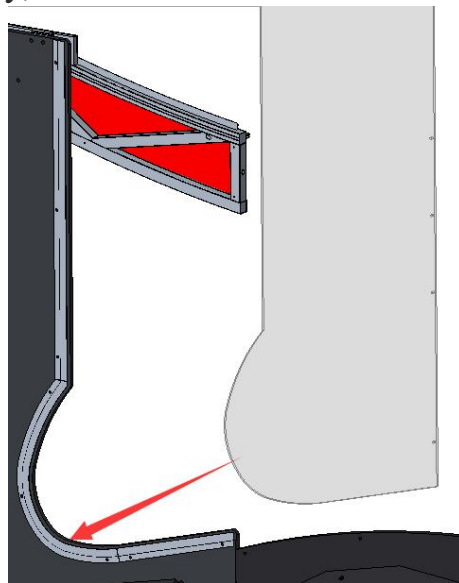
Picture 20

Step 4: 4.1 Find out the transparent PC on both sides (as shown in Picture 20 below) from the part taken out in step 1, and put it into the card slots on both sides of the main box (as shown in Picture 21.22 below).

Note: In order to prevent scratching, the transparent PC has not torn the protective film before leaving the factory, and it should be torn off before installation.



Picture 20



Picture 21



Picture 22

4.2 Then remove the 6 M6*50 screws fixing the square pipe frame on both sides (as shown by the arrow in Picture 23.24 below).

Note: M6*50 screws are only used for transportation, packaging and fixing the square pipe frame, not for other purposes.



Picture 23



Picture 24

4.3 First remove the four M4*8 stainless steel large flat screws on the square pipe rack and store them well (as shown in Picture 25). Then remove the 4 black M5*16 screws on the board and store them (As shown in picture 26)



Picture 25



Picture 26

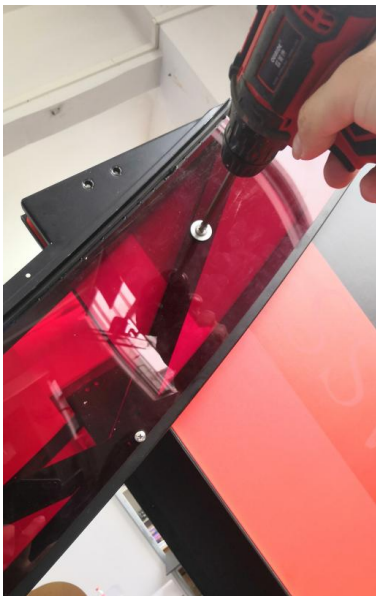
4.3 At this time, one person is required to lift the square pipe stand onto the arched boards on both sides, and another person is required to fix it on the C place of the board with four M5*16 black combination screws (as shown in the red circle in Picture 27 below).



Picture 27

4.4 At this time, although the square pipe frame is screwed, someone needs to hold the square pipe frame to prevent it from tipping over. Another person removes one M6*50 black assembly screw fixing the curved square pipe frame (as shown in Picture 28 below). Turn it up and use one M6*40 black combination screw to connect the front and rear square pipe racks together at D (as shown by the arrow in Picture 29 below).

Note: M6*50 screws are only used to pack and fix the square pipe frame, not for other purposes



Picture 28



Picture 29



Picture30

4.5 Finally, use 4 M4*8 stainless steel large flat screws to fix the transparent PC and the square pipe stand together at place E (as shown in the red circle in Picture 31 below).

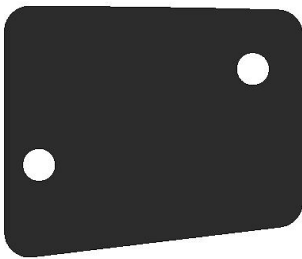


Picture 31



Picture 32

4.6 Finally, the wire in the square pipe stand should lead down the board groove, insert the wire and lock the wire shielding sheet metal (as shown in Picture 33 below) at G with two M4*12 black combination screws (as shown in the red circle in Picture 34 below).



Picture 33



Picture 34

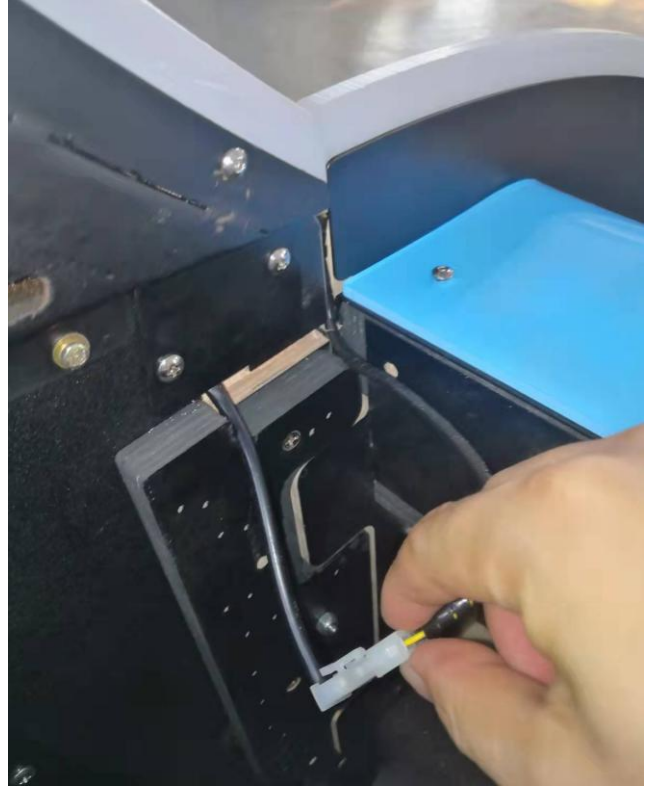
4.7 Follow the same steps for the other side

Step 5:

5.1 First, plug the connector port of the console and the square pipe rack (as shown in Picture 35.36 below).



Picture 35



Picture 36

5.2 At this time, one person needs to stand in the machine and first remove the M4*16 stainless steel cross flat screws on the board and put them away (as shown in Picture 37.38).

Note: Stand on the central pipe rack of the belt (As shown in Picture 39)



Picture 37



Picture 38



Picture 39

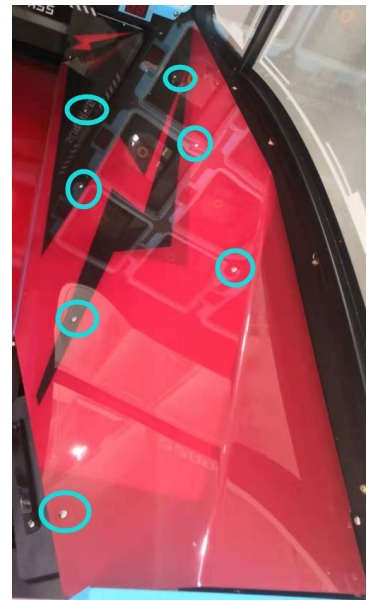
5.3 After making sure that all the wiring ports are plugged in, find out the PVC panels on both sides of the slope (as shown in Picture 40 below) from the parts taken out in Step 1, put them on both sides of the belt, and use the 18 M4*16 stainless steel phillips screws removed in Step 5.3 to lock them (as shown in Picture 41.42 below).



Picture 40



Picture 41



Picture 42

Step 6:

6.1 Find a 1010mm long 20*20 square tube (as shown in Picture 43 below) from the parts taken out in step 1. After finding it, move a high stool or ladder and fix it on the square pipe rack (place F) on both sides with two black M6*40 screws (place F is shown in the circle in Picture 44 below).



Picture 43



Picture 44

6.2 Then find the top organic PVC in the part taken out in step 1 (as shown in Picture 45 below). Slowly push the PVC organic along the grooving of the square pipe frame on both sides until the PVC organic sticks into the sheet metal behind (as shown in Picture 46.47.48 below).

Note: Transparent PVC is organic when leaving the factory, so the protective film is not torn, and the protective film needs to be torn off when installing.



Picture 45



Picture 46



Picture 47



Picture 48

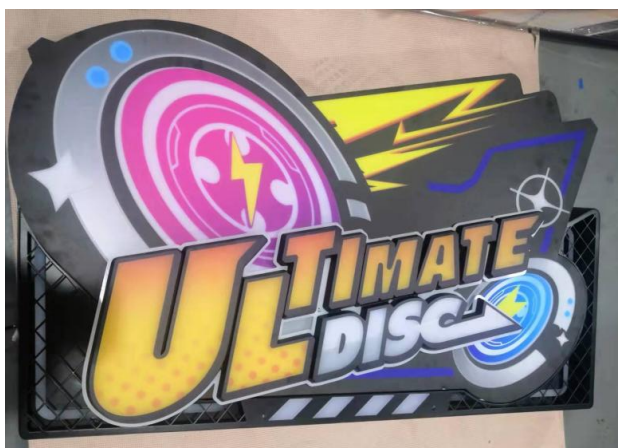
Step 7:

7.1 Prepare two high stools or ladders and place them respectively at the connection point between the console and the main box (as shown in Picture 49 below).

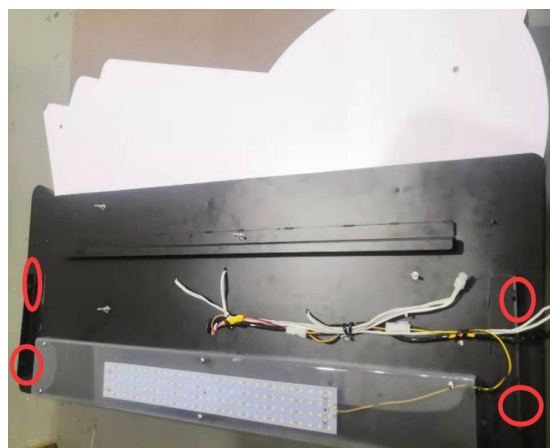


Picture 49

7.2 Then take the light box (as shown in Picture 50 below) out of the carton. First remove the four M6*40 black assembly screws from the sheet metal on both sides of the light box and store them well (as shown in Picture 51 below).



Picture 50



Picture 51

7.4 Two people lift the light box and slowly hang it on the square pipe installed in Step 6 (as shown in Picture 52.53 below), and then lock the light box (at H) with four black M6*40 screws removed before (as shown in the circle at H in Picture 54.55 below).

Note: This operation must be completed by more than two people, otherwise there will be security risks.



Picture 52



Picture 53

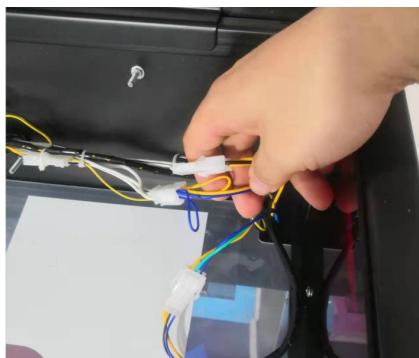


Picture 54



Picture 55

7.5 Finally, plug the wiring ports of the light box (as shown in Picture 56.57 below).



Picture 56



Picture 57

Step 8: Around the machine, check whether the screws are tight and whether the wiring ports are properly inserted.

If the installation is complete, you can power on the machine.