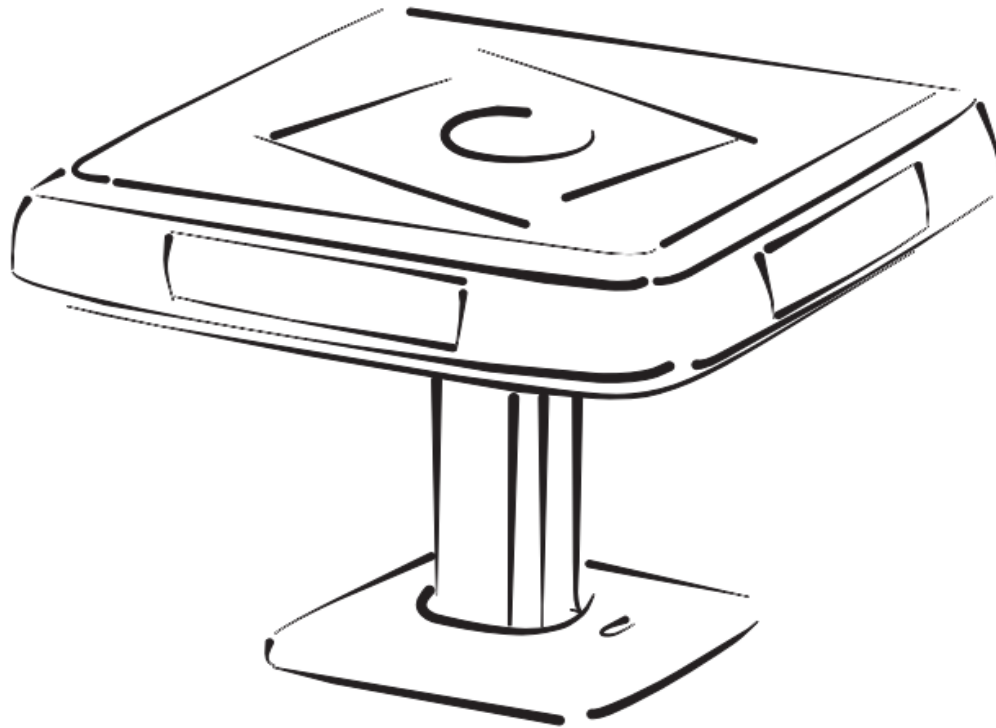




Treyo Fully Automatic Mahjong
Machine (T Series)

Operating Instruction

Liability Statement

1. Reading Statement

Thank you for choosing Treyo Fully- Automatic Mahjong machine. Please read the operation Instruction before installation and operation, which can guide you to know about and use the product correctly. Attached operation Instruction are also provided with the equipment for the continuous development and improvement of the product, please read carefully. Our company will not be liable for any artificial damage and injuries incurred due to failure to read or carefully read the operation Instruction.

2. Copyright Statement

The copyright of the operation Instruction remains the property of MATSUOKA TECHNOLOGY(ZHEJIANG) CO., Ltd. The company reserves all rights. Any part of the publication shall not be duplicated, disseminated, transcribed or saved in a retrieval system or translated into any language in any form or by any means including electronic, mechanical, magnetic, optical, chemical, and manual or any other means without the prior written approval of our company.

3. Disclaimer

- Our company makes no warranty or representation, express or implied, concerning the contents hereof and denies any warranty, marketability and adaptability of any special purpose clearly. In addition, the publication contents hereof are subject to revision without notice.
- Text error and inadequate technical description may occur in the manual despite careful proofreading. Comments from consumers and insiders are highly appreciated, which will help us revise the manual.

Safety tips

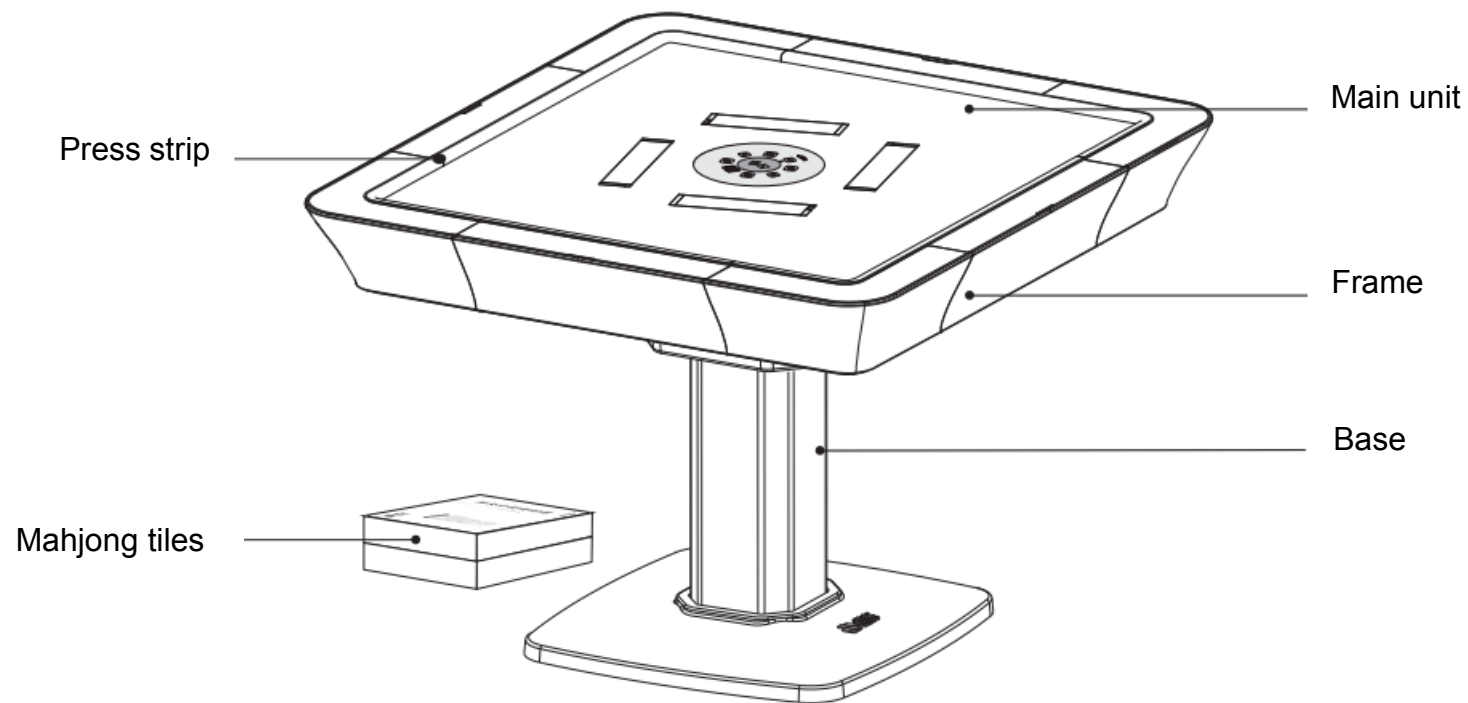
! To ensure the operation safety of the machine, the following instruction shall be followed:

- Treyo mahjong table is not suitable for outdoor use without power supply.
- Please use original and supporting products of Treyo. Never use modified or non-professionally manufactured parts.
- Do not dismantle and modify the mahjong machine without authorization.
- Use 220-240V~ single-phase three-wire AC outlet fit for the plug and the outlet shall be properly-grounded.
- Do not use external power supply higher than 245V or lower than 198V, a voltage regulator shall be provided when the power supply is not stable.
- Take out the mahjong tiles from the machine and place them separately, turn power off after the game is over.
- Keep Treyo Mahjong machine horizontal during transport or movement. Do not place it upside down.
- Do not clean the surface and the cavity of the Mahjong machine. Never clean mahjong tiles with cleaning agent.
- Do not throw such foreign objects such as lighter or cigarette into the machine, which may damage the machine.
- Do not scrape or scratch the machine or the mahjong tile surface with any sharp objects.
- Do not place Treyo Mahjong table into an area where a water jet could be used.
- Do not place Treyo Mahjong machine into a strong sunlight or humid environment for a long time.
- Turn off the power supply of the Mahjong machine during maintenance.
- Only professional service personnel of or designated by the manufacturer are authorized to maintain to prevent personal injury due to any worn or damaged power supply cable.

Treyo Mahjong machine

1. Generals of a complete Treyo Mahjong machine

Treyo Mahjong machine is composed by three parts such as the main unit, frame assembly and base with two sets of 4-outlet Majhong tiles, as shown below:



Note: The appearance of the mahjong machine varies with style and structure and is subject to the real object.

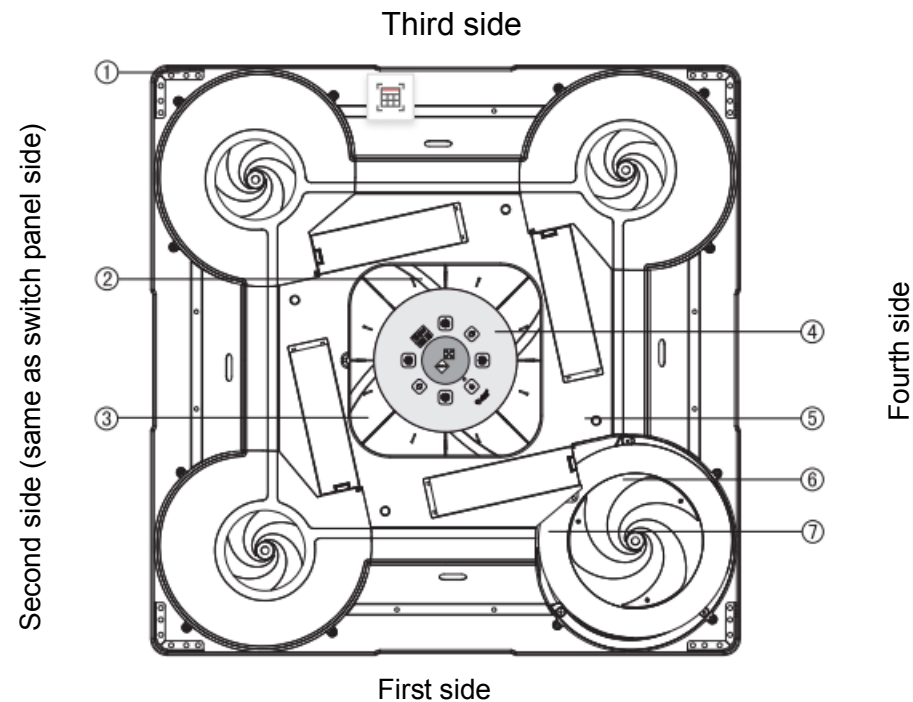
Treyo Mahjong machine

2. Main unit of Treyo Mahjong machine

The main unit is the most important part of the Mahjong machine, which consists of the electronic control system and mechanical system according to its working principle (as shown in the top view). Assembly users often come across frame assembly, panel assembly (omitted in the figure below), mahjong tile driving assembly, baffle plate assembly, mahjong tile shuffling tray assembly and dice tray assembly.

1. Top view of main unit

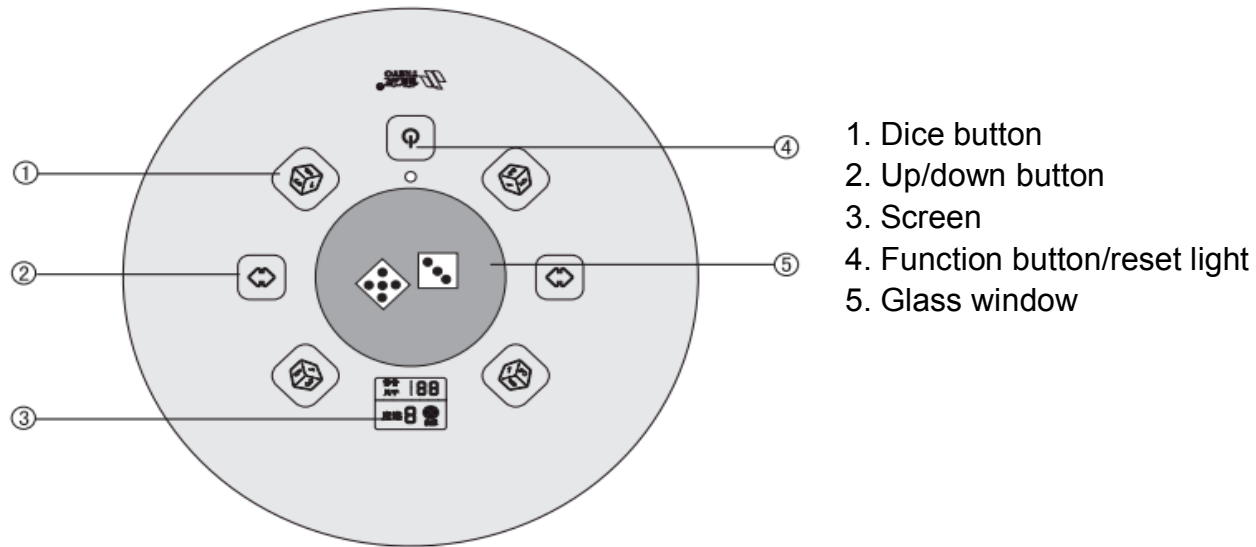
- ① Panel support frame
- ② Hard driving lever
- ③ Tile shuffling tray
- ④ Dice tray assembly
- ⑤ Conveying assembly
- ⑥ Push-and-lift assembly
- ⑦ Pile-and-push assembly



Note: The appearance of the mahjong machine varies with style and structure and is subject to the real object.

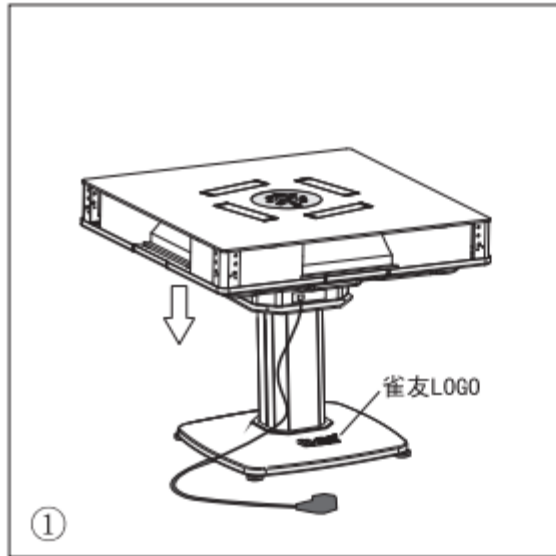
Treyo Mahjong machine

2. Dice tray assembly

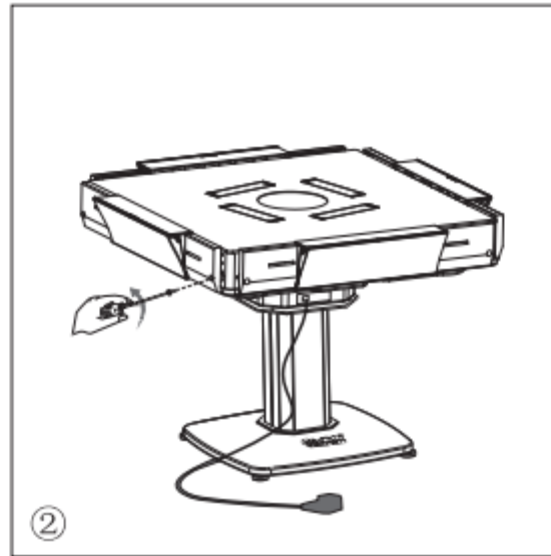


Note: The model and dice tray vary in structure and style, if the product purchased by customer is different from that in the picture above, it should be subject to the real object.

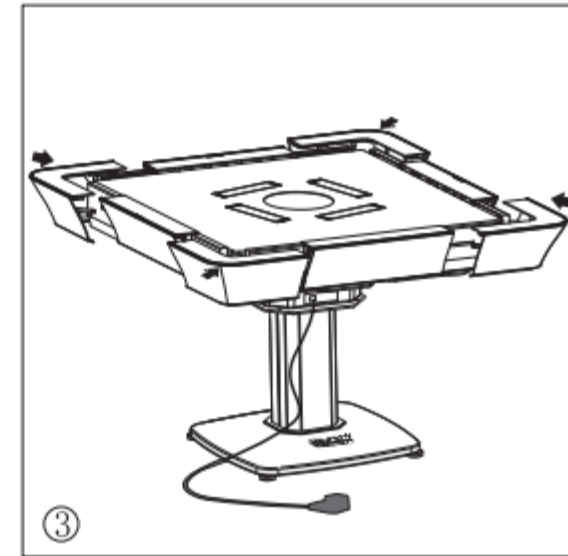
Installation diagram



1. Installation of main unit and base: first place the main unit on the base, align the hole position and tighten the four screws.



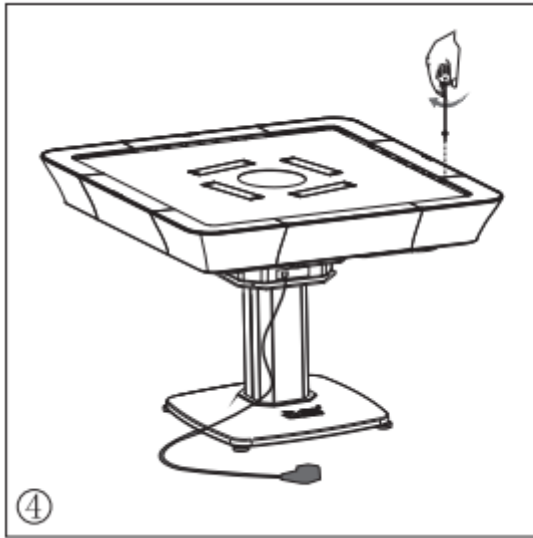
2. Frame installation: tighten the installation holes of the frame and the main unit's support frame with 8pcs of TM4X12 screws as shown.



3. Frame installation 2: insert the corner packs into the seams of the frame as shown.

Note: It is subject to the final product with many various styles.

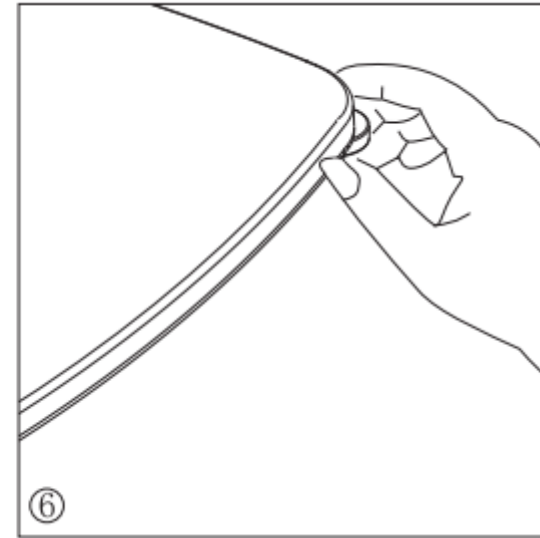
Installation diagram



4. Frame installation 3: tighten the connection between the frame and corner packs with 8 PB4X10 screws as shown.

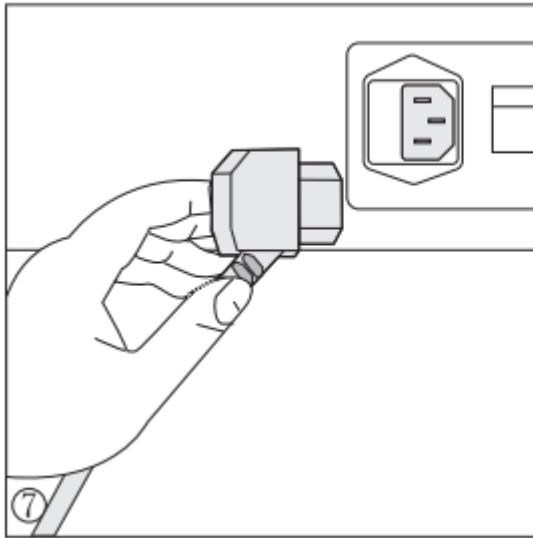


5. Press strip installation: connect and tighten the press strip, place in the gap between the frame and main unit, push and tighten the press strip by hand downward.(Note: if the press strip is too tight, adjust the frame screw properly.)

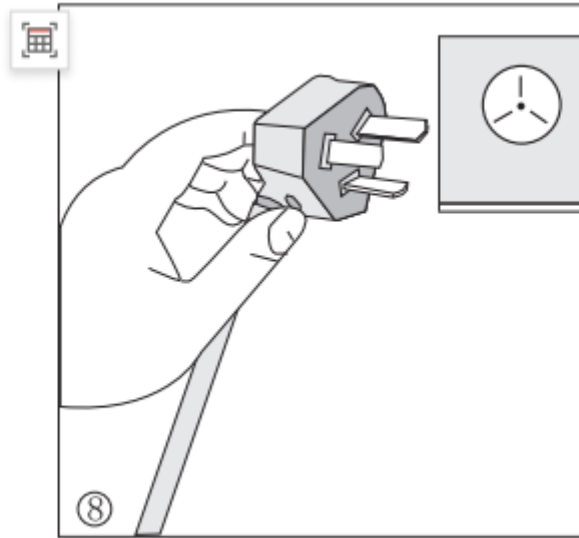


6. Adjust the machine's flatness: adjust the four adjustable foot cushions on the base to keep the machine stable.

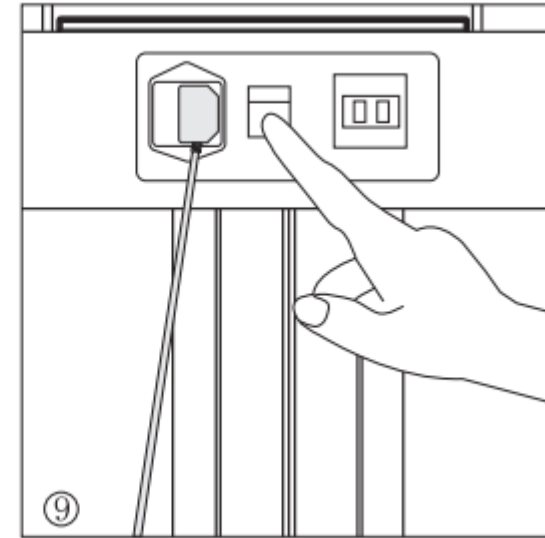
Installation diagram



7. Turn on the power supply 1: as shown above, connect the main unit power outlet and connect one end of the power cable to the three-hole socket in the main unit power supply switch area.



8. Turn on the power supply 2: as shown above, turn on the power supply, the power outlet must be a three-wire socket with a reliable ground wire that matches the plug.



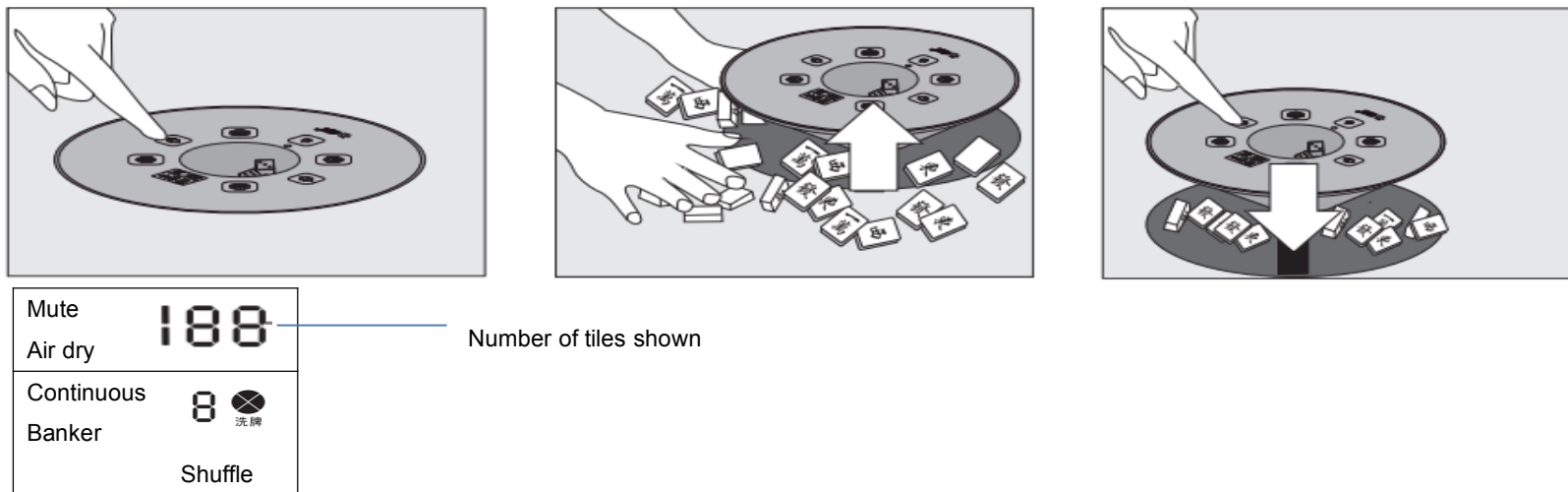
9. Machine start-up: as shown above, turn on the power supply switch installed on its bottom, the indicator light is on with a "Di" sound to check the main unit's dice tray with reset indicator light on, and it can start work normally.

Operation

1. Fundamental operating instructions

- The indicator is on after the power switch is turned on. Then, press 2 buttons on the shift switch at the same time for 3 seconds and release the buttons after the displayed digits begin to flash. At this time, the shift switch is unlocked. Press the “+” and “-” shift adjusting buttons to achieve your desired the shift according to the table of the number of stacks.
- Press the lifting button on the dice tray and the dice tray will lift automatically. Put the first set of mahjong tiles into the machine and press the lifting button again, then the dice tray will descend. The machine begins to shuffle the tiles. After shuffling, the reset indicator will be on. Press the lifting button again to lift the dice tray. Put the second set of mahjong tiles into the machine and press the lifting button again to descend the dice tray. The first set of mahjong tiles will come out from the machine for games. The machine begins to shuffle the second set of mahjong tiles.

Operation diagram:

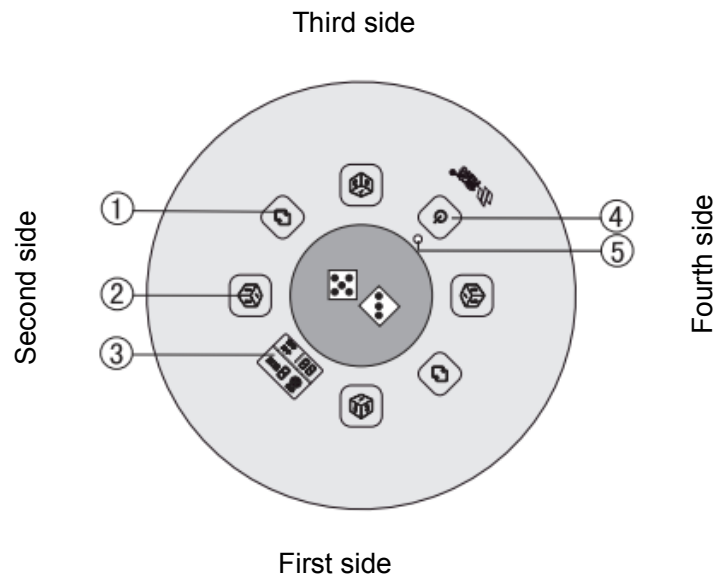


Note: ①when the reset indicator is on, press any lift button. The dice tray rise.
②when it is shuffling, to make the dice tray rise, press two lift buttons synchronously.

Operation

2. Roll the dice

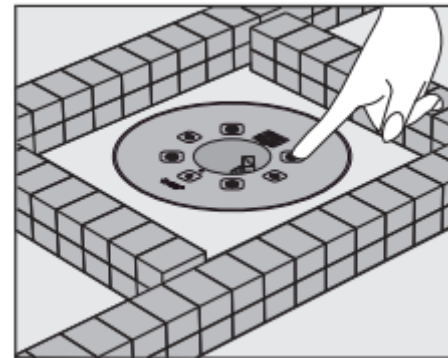
The names of each part of the dice tray are as follows:



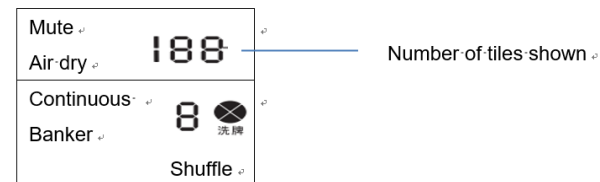
- ①Lift button ④Function button
- ②Dice button ⑤Reset indicator light
- ③Screen

Note: With various styles of dice trays, it is subject to the real product.

- Please press the dice button and the dice will rotate automatically. When the banker's indicator light is on. When the banker continues, the times will be displayed, and the maximum is 9.



Operation diagram



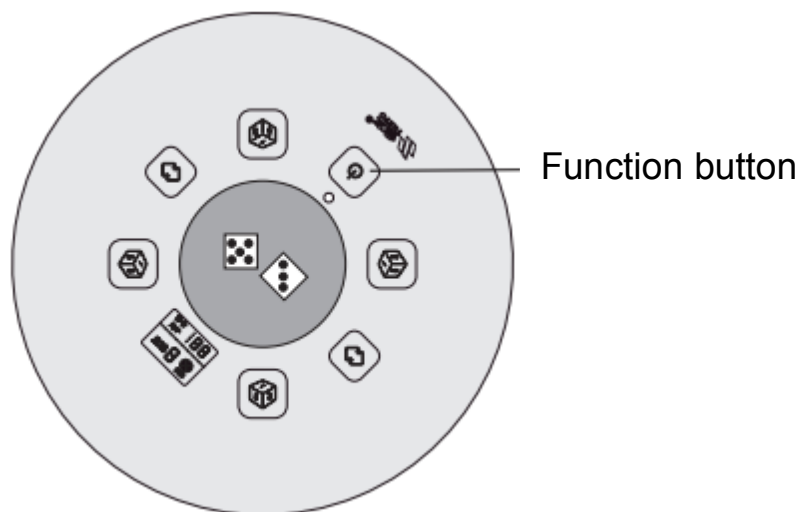
Operation instruction of function buttons

1. Soft shutdown function

- When shuffling is finished , press the function button for 3-4 seconds, the buzzer sounds “Di” and it is in a soft shutdown status; press again for 1 second, it returns to standby mode.

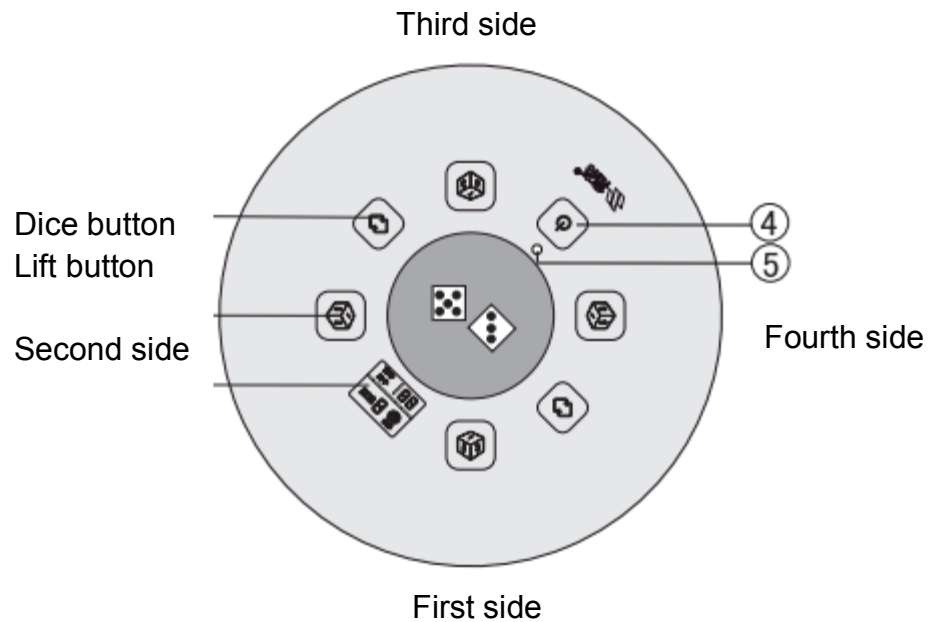
2. Tile-hiding function

- By function buttons, to hide two sets of mahjong tiles in the machine synchronously. To operate, see the detailed instruction of tile-hiding function on page P15.



Operation instruction on dice tray gear setting

Press the adjacent 2 dice buttons for 3-5 seconds to enter the gear setting menu. Press the lift button to increase or decrease gears, set the gear required according to the gear table. Then press any dice button again to set successfully and exit.



Mute	188
Air dry	
Continuous	8
Banker	洗牌
	Shuffle

Shift indication

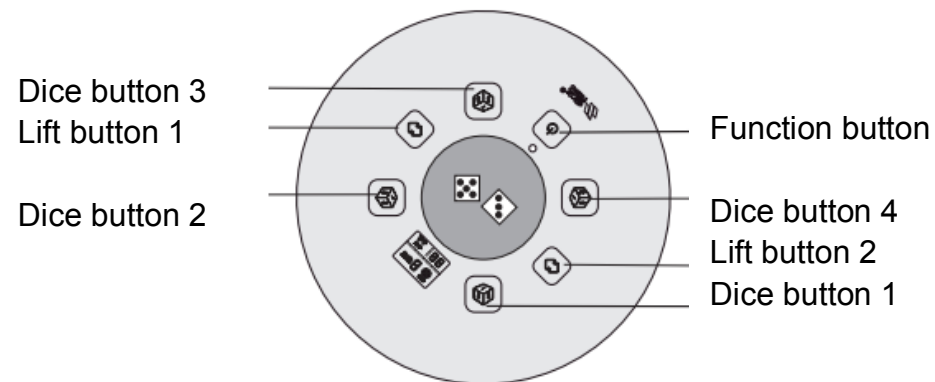
The shift flashes when setting is changed.

Tile-hiding function

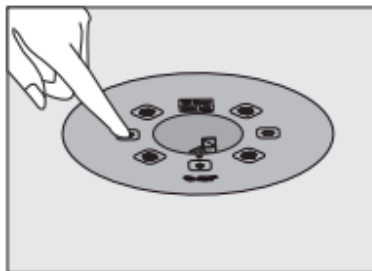
Function description

Tile-hiding function can realize that two sets of mahjong tiles are hidden inside the machine synchronously without confusion between them. This function can let people clear the table during the game.

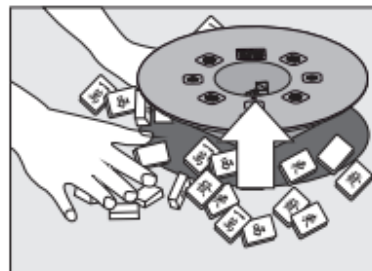
Operation process: when resetting indicator light is on, press the lift button 1 or 2. After it rises, push tiles into the shuffling bucket, and press the two dice button opposite to each other and hold (1 and 3 or 2 and 4) for 3 seconds or press the function button for 3 seconds, it will fall automatically, and the buzzer sounds "Di" to mean that tile-hiding is completed. Then the machine has recovered to normal working status. When you operate the lift button 1 or 2 again, it will rise.



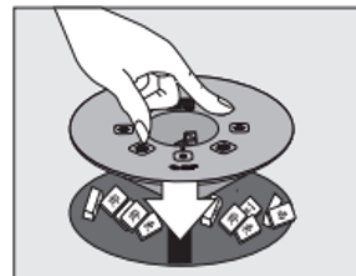
Operation diagram



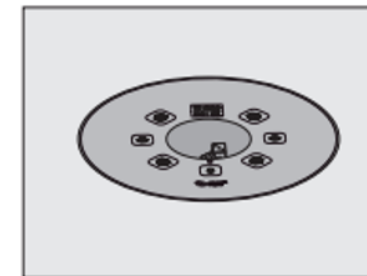
Enter tile-hiding function



Push second set of tiles into shuffling bucket



Push dice button to let dice tray fall



Two sets of tiles are hidden inside

Dehumidification and ventilation function

Dehumidification and ventilation function

Some models of Treyo Mahjong Machine provide dehumidification and ventilation function to remove the problems such as tile jam or slow tile feed due to wet weather effectively.

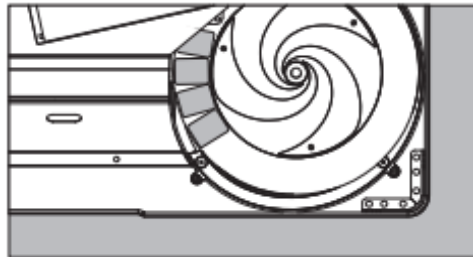
- Working principle: DC fan is used to ventilate and exhaust to keep its interior dry, to effectively remove the failure due to wet weather.
- Usage: In shuffling, the dehumidification fan will run intelligently and automatically. If you need to close or reopen manually, press any lift button for 3 seconds, and the buzzer sounds "Di", to mean that the dehumidification fan starts/stops. (Note: dehumidification fan shall run synchronously with shuffling.)

Note: it is subject to the final product on whether it is equipped with a dehumidification system and the dehumidification system varies slightly.

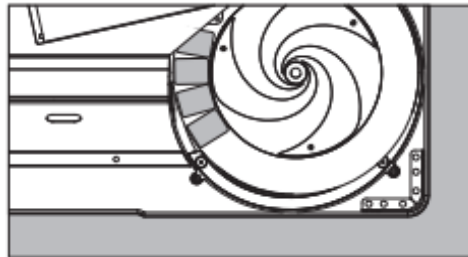
Power-off memory

Function description

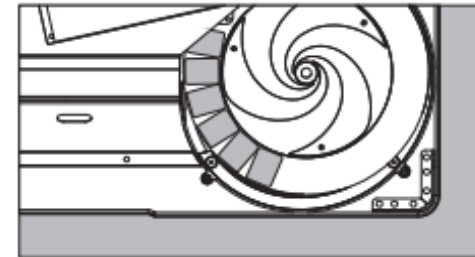
The function of power-off memory is that when its power supply is suddenly cut off, it can remember the original working status without tile jam due to its reset after power off. This function can be written into its main control chip therefore no manual operation is required.



1. In its normal working status, the machine is running normally.



2. When the power is off, it stops and enters the power-off memory function automatically, with its original working status automatically remembered in the control chip.



3. No matter how long it takes, after power-on again, it will automatically read the original working status in the control chip and continue the work.

Note: Forced reset

In shuffling (if the machine is abnormal), shuffling is required to stop. You can press the two dice buttons opposite to each other and hold for 3 seconds, after the dice tray sounds, the program automatically enters forced reset and you do not need turn on the power supply again.

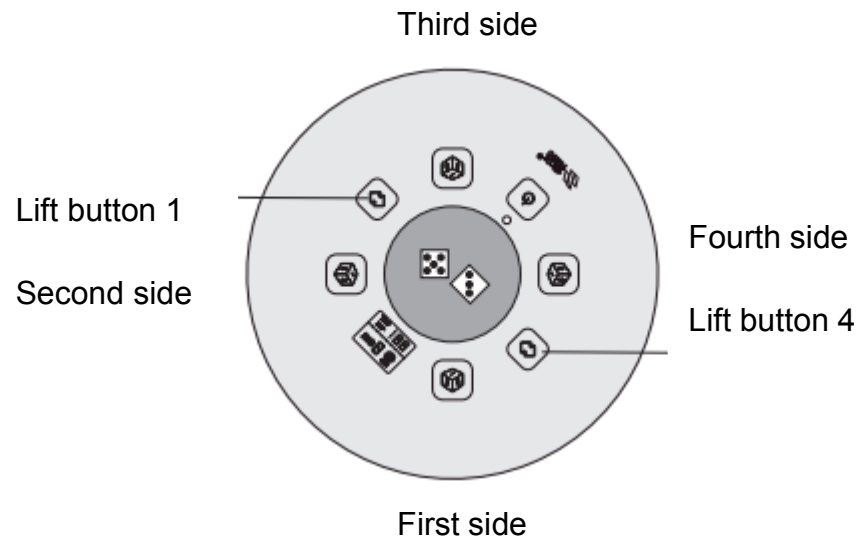
Note: to ensure its normal operation, please do not turn on/off its power supply frequently.

Manual test

1. Function description

The manual test function is used to let consumers understand the internal structure of the main unit, and better understand the operation process of all its functions, for consumers to debug by themselves manually to remove some simple faults.

2. Dice button diagram



3. Test program description

Adjust the machine to gear 0, reset its power supply system to enter manual test status, and the system test includes four-way lift test, transmission assembly test, board test, middle lift table test and so on. If you need change the test type, you can switch the function by the lift button and the test type will be indicated by continuous banker indicator light with operation on the dice button. The specific correspondence is as follows:

Manual test

Test type	LCD display	Operation method and function
Center rise and fall Motor test	0	Press dice button, the center rises or falls.
Tray motor Motor test	1	Press dice button, the tray motor will cycle between forward rotation, stop rotation, and reverse rotation
Four-side transfer Motor test	2	Press dice buttons opposite to each other, once to forward, twice to back, cycle in this way.
Four-side stack Motor test	3	Press dice button, stack motor simulates the stacking action step by step.
Four-side pallet Motor test	4	Press dice button, the motor to open tiles forwards to the next position, in pushing up, press this button again to pause pushing up.
Four-side push-up Motor test	5	Press dice button, the motor forwards and pusher moves to the end and stop; press this button again, the motor backs and the pusher returns to the origin. When the pusher is moving, press this button once, it will stop.
Four side light-eye sensors test	6	Place the mahjong tile in front of the light -eye sensor. When the light -eye sensor scans the corresponding edge of the mahjong card, the dice button light lights up, indicating that the light-eye sensor is effective

Note: SET red light points to First side.

Intelligent alarm

1. Function description

The intelligent alarm function of Treyo Mahjong Machine makes the dice tray flash and alarm with various indicator lights corresponding to various functions, simple and clear. This function is a good guider for consumers in troubleshooting and explaining all of its faults.

2. Intelligent alarm details

Indication status	Cause	Solution
LCD display is 1, and four banker lights flash synchronously	The gear and number of tiles are wrong Insufficient number of tiles Shuffling time is too long	Adjust gear switch Make up the number of tiles Check shuffling lever
Power switch light is off	Power supply plug is not plugged in properly Fuse is blown out Indicator light is damaged	Please plug in the power supply plug Replace fuse tube Replace power supply switch
LCD display is 2, and four banker lights flash synchronously	K1K2 photoelectric part fails, or the central lift door cannot rise or fall	Remove K1K2 photoelectric part fault or lift motor fault
LCD display is 3 or 7 and side 1 (2. 3. 4) flashes	The photoelectric part's counting chip K5K6 fails on side 1 (2. 3. 4)	Remove the photoelectric part's chip fault or K5K6 magnetic control fault on side 1 (2. 3. 4)
LCD display is 4 and side 1 (2.3.4) flashes	Push-up function fails on side 1(2.3.4)	Remove the magnetic control or push-up motor fault on side 1 (2. 3. 4)
LCD display is 5 and four banker lights flash synchronously	Motor over-current or short circuit fault	Please find professional maintenance personnel for inspection and repair

Gear description

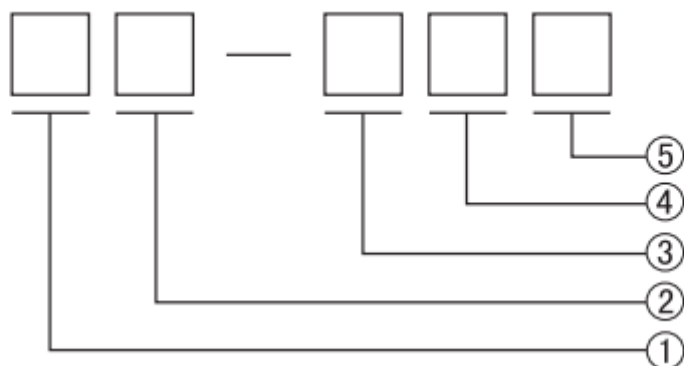
Numbers of tiles corresponding to gear switch are as follows:

Gear	Number	Stack				Gear	Number	Stack				Gear	Number	Stack			
0	Manual test					14	84	14	14	14	0	28	102	13	13	13	12
1	144	18	18	18	18	15	84	12	10	10	10	29	96	12	12	12	12
2	140	17	18	17	18	16	84	10	11	10	11	30	54	9	9	9	0
3	136	17	17	17	17	17	40	10	0	10	0	31	36	9	0	9	0
4	128	16	16	16	16	18	20	10	0	0	0	32	18	9	0	0	0
5	120	15	15	15	15	19	72	9	9	9	9Customize	33	54	7	7	7	6
6	112	14	14	14	14	20	148	18	19	18	19	34	36	6	6	6	0
7	108	13	14	13	14	21	142	18	18	18	17	35	40	5	5	5	5
8	100	12	13	12	13	22	108	18	18	18	0	36	138	17	17	17	18
9	72	12	12	12	0	23	132	16	17	16	17	37	56	9	8	9	2
10	152	19	19	19	19	24	96	16	16	16	0	38	108	17	17	17	3
11	138	17	17	17	18	25	124	15	16	15	16	39	108	14	13	14	13
12	116	14	15	14	15	26	126	16	16	16	15	40	137	17	17	17	17.5
13	110	14	14	14	13	27	104	13	13	13	13						

Technical parameters

Rated power supply voltage	Fuse current	Rate power
220-240V~/50Hz	3A	200W

Work environment	Temperature	Humidity	Altitude
	0~35℃	<80%	<4000m



①The number of Treyo Mahjong Machine
Indicated by Chinese Pinyin letter LP.

②Specification code

The specification of the machine is indicated by the vertical height of maximum stacks of the tiles. For example: the vertical height 40mm, maximum stacks 18, its specification can be 4018.

③Shuffling structure code

According to input/output of pool:

A. Single-port shuffling machine (no need to mark);

B. Multi-port shuffling machine (indicated by Chinese Pinyin letter D).

④Automation-level code

According to automation level:

A. Fully automatic shuffling machine (no need to mark);

B. Semi-automatic shuffling machine (indicated by Chinese Pinyin letter B).

⑤Serial number of factory design indicated by Arabic numerals or letters.

Note: the product system configuration is for customers' reference only.

It is subject to the specific model number if it does not conform to the instruction.

Maintenance tips

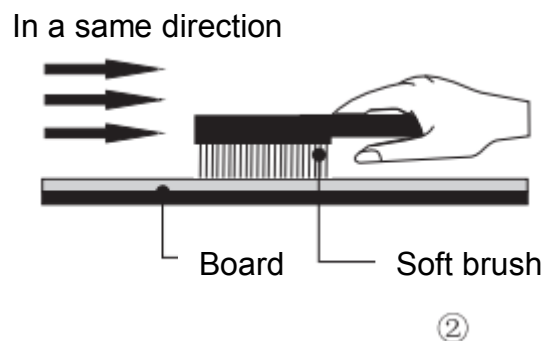
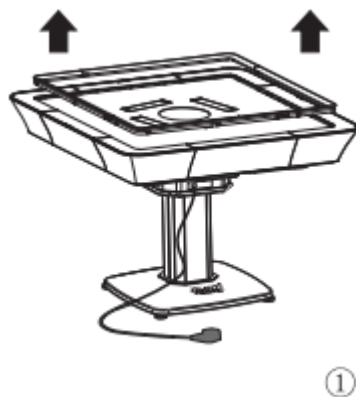
1. Requirement on interval in maintenance

- To make its work stable and save the after-sales cost. Within the first three months from the date of purchase, the maintenance personnel or users should regularly make daily maintenance on the machine (suede cleaning, mahjong tile cleaning, etc.).
- From the date of installation, maintenance personnel or users are required to maintain the whole machine (suede cleaning, frame cleaning, board vacuuming, etc.) once in a quarter, and it is recommended that at least 3 times of maintenance on the whole machine should be made in one year.

2. Maintenance content

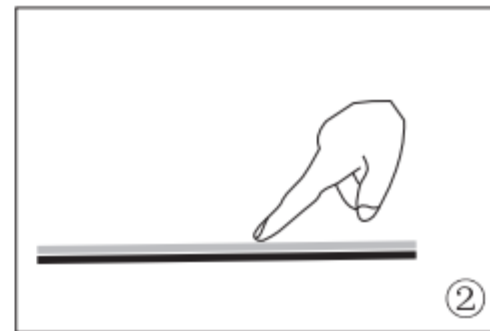
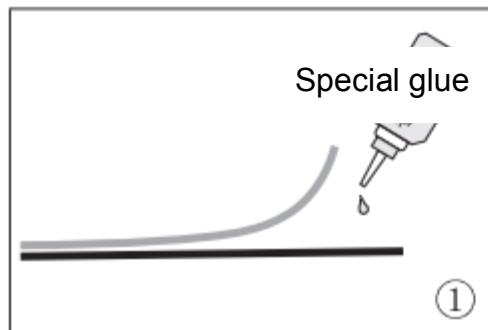
1. Maintenance of suede

- Put the press strip on one side and gently brush the suede in a same direction with a soft brush until the suede becomes clean.



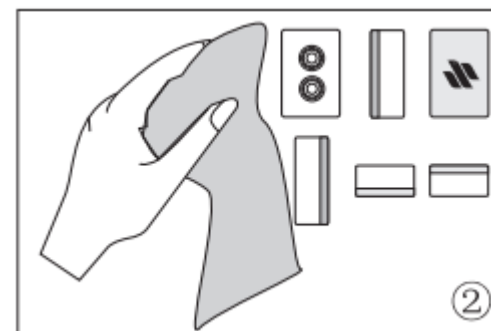
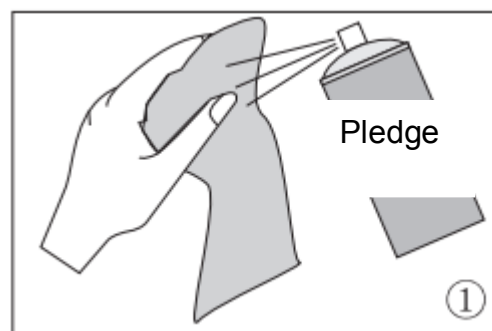
Maintenance tips

- If there are problems such as warping in the corners of the suede, re-glue it with special glue in time to prevent the problem of warping and losing fluff from becoming worse.



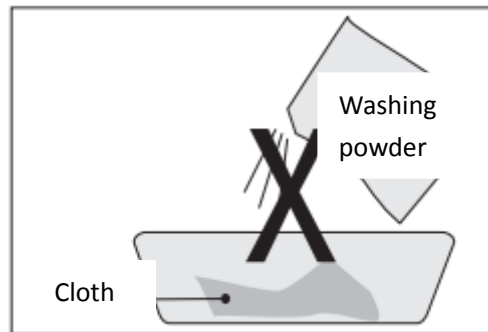
2. Maintenance of mahjong tiles

- Lift the mahjong tiles to the board and align neatly. It is recommended that you should wipe the six surfaces of each mahjong tile with a clean towel sprayed with the “Pledge” special for mahjong tiles to remove hand mud and oil from the surfaces. Turn over all mahjong tiles while wiping to save maintenance time and cost.



Maintenance tips

- Maintenance of front side of Mahjong tiles: as the front has grooves such as calligraphy carving and painting, generally there will be a lot of hand mud. You can clean with a wet toothbrush, without too much force, to avoid brushing off the paint in the grooves.
- Mahjong tiles must be cleaned and wiped by “Pledge”, and it is forbidden to use the liquids containing chemicals such as washing powder and detergent, otherwise there may be phenomena such as paint falling off, magnetic weakening and so on. After wiping, “Pledge” can keep the surfaces of mahjong tiles smooth with a layer of protective film. Please dry the tiles with a hair dryer after cleaning.



3. Maintenance inside the machine

- The inside of the machine should be kept clean. Vacuum cleaners or soft brushes can be used to clean the suede of the central turntable.
- The principle of internal maintenance of the machine: try not to move the electrical and mechanical parts as much as possible, to keep the contact parts of mahjong tiles clean and the sliding parts well lubricated. The quality of all lubricants must be reliable, low-quality lubricating oil or low-quality “Pledge” will lead to a higher failure rate of the machine. The “Pledge” of Treyo brand is recommended to clean the passageway and mahjong tiles.

1. Limited warranty

- From the date when it is sold, the T series of Treyo are guaranteed for one year. After the warranty period, we offer paid service as required by customers.
- In purchase, the customer must fill in the warranty certificate (in duplicate) and keep the "customer's receipt", show the warranty certificate to confirm that the warranty period of the product is still valid.
- During the warranty period, all faults caused by the quality of the product shall be fixed free of charge with the purchase certificate and warranty certificate in our local sales and service provider.
- If the customer is unable to prove the warranty period of the product when the warranty certificate is lost, the period shall be calculated from the date when it left the factory.
- Paid service will be offered for the products beyond the warranty, and the items: fixing fee + cost of spare parts.
- Mahjong tiles, frame and suede are consumable goods, the customer shall pay for the cost if they need us to maintain or replace.

2. The following are not covered by warranty

- When the warranty period expires.
- The machine number is changed or removed.
- The warranty certificate filled is not consistent with the machine fixed or is changed randomly.
- Damages caused by improper handling, installation, use, maintenance and safekeeping of the customer.
- Damages caused by self-fixing, change or dismantling and any fixing by non-authorized personnel of the company.
- All damages and losses caused by environmental conditions in use, such as power supply, temperature, humidity, and other factors beyond our company's control.
- Damages caused by force majeure.

Note: the technical parameters of this instruction will be changed without prior notice.

Annex



Please recognize the trademark of Treyo and guard against counterfeiting! The following is a registered trademark of Matsuoka Mechatronics (China) Co., Ltd.:

雀友[®]
QUEYOU

[®]
MATSUOKA

 雀友[®]
TREYO



雀友[®]

TREYO[®]

Note: the registered trademark will be constantly updated if necessary. If you have any questions, please call

- ◆ Our company has passed ISO14001 Environmental Management System certification
- ◆ Our company has passed ISO9001 Quality Management System certification
- ◆ Executive standards: QB/T 4102-2010

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