

ROBO CUTTER[®]



User Guide

Remark: Photos are for your reference only,
please regard the actual product as the truth.



Warning

- Please read this user guide carefully before operation to ensure the safe operation of this machine.
- Please keep this user guide in order to check when you need in the future.
- The machine frame and components are subject to change without further notice.

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PRECAUTIONS FOR USE



WARNING

This machine for indoor usage only does not install outside.

For safety reasons, the following suggestions should be adhered to:

1. Make sure that the game machine is installed stably in a horizontal position.
2. Do not set the game machine near the emergency exits or fire-fighting equipment.
3. Protect the game machine from:
 - Rain or moisture.
 - Direct sunlight.
 - Hazardous flammable substances.

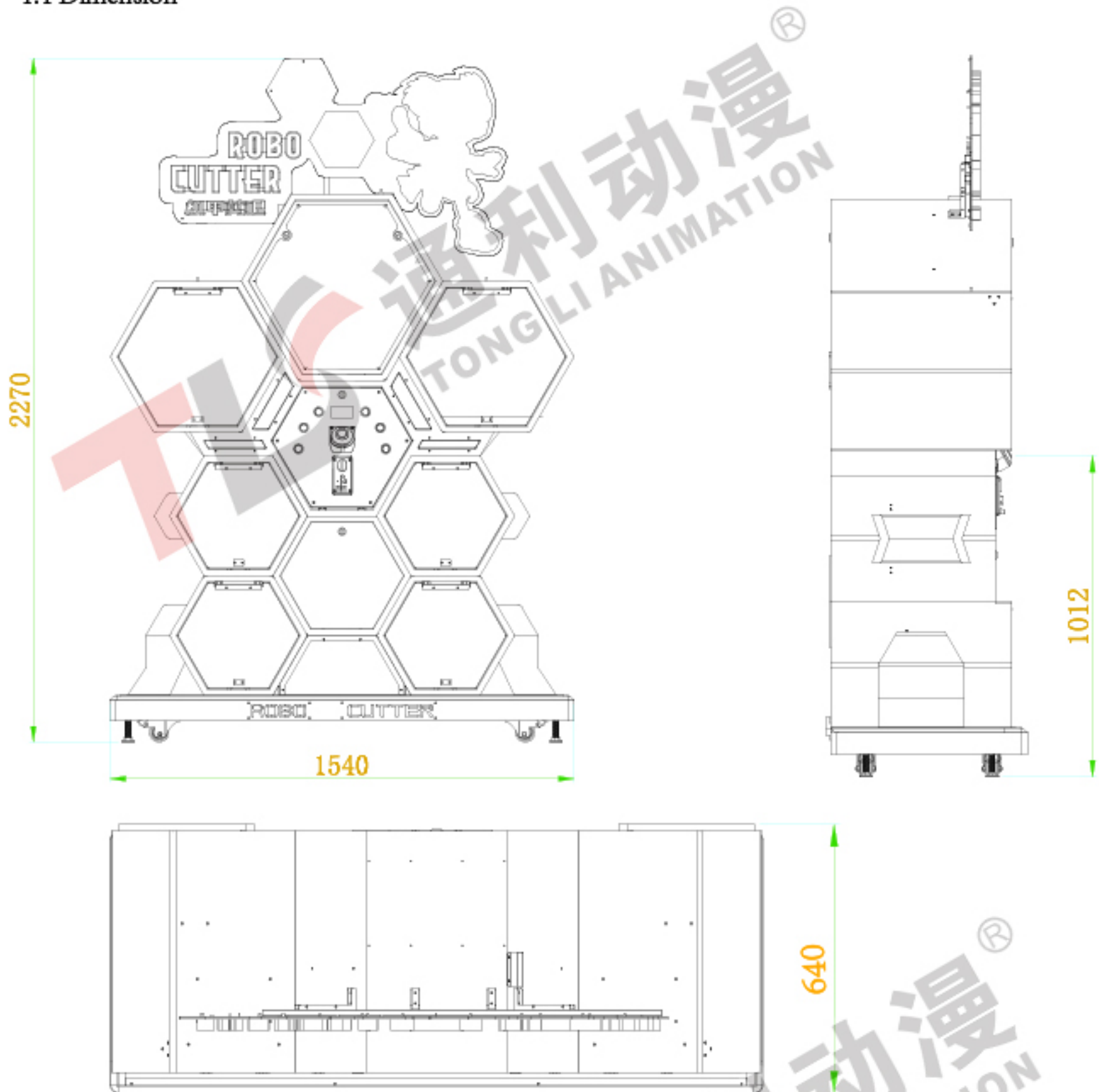
Precautions for use

The following safety precautions are given throughout this manual. They must be strictly followed to protect those who install, use or maintain this product as well as to protect players, visitors and property.

1. Before repair or maintenance, power must be turned off first and continue with other operations in case of any electric shocks or short circuits.
2. Do not touch plugs with wet hand to avoid electric shocks.
3. Do not immediately unplug or plug in the cabinet to avoid electric shocks or short circuits.
4. Do not expose electrical cords and ground wire on hallway, or damage, electric shocks and short circuits might occur.
5. Do not place flammable items or sundries near electrical cords to avoid fires.
6. When unplugging the electric cord, tightly hold the plug and avoid pulling the electric cord. Or it might damage the electric cord and cause the fire or electric shocks.
7. If electrical cords are to be damaged, replace a new one with your local distributor. Do not replace by yourself, or it might break or damage the spare parts.
8. Never use the spare parts and fuse other than the specified ones.
9. Make sure that all electrical cords are well connected in a correct way, as well as screws are fixed stably.
10. Strictly refrain from disassembly and repair of parts which are not indicated in this manual, as well as settings and remodeling. Or it might damage and break the machine, and threaten the personal safety of players as well as onlookers.
11. Routinely check, maintain and repair this machine. Keep machine clean to extend its usage.
12. If any of operations is not mentioned, contact with your local distributor first, and follow the professional instructions from their technicians.

1. Specification and dimension

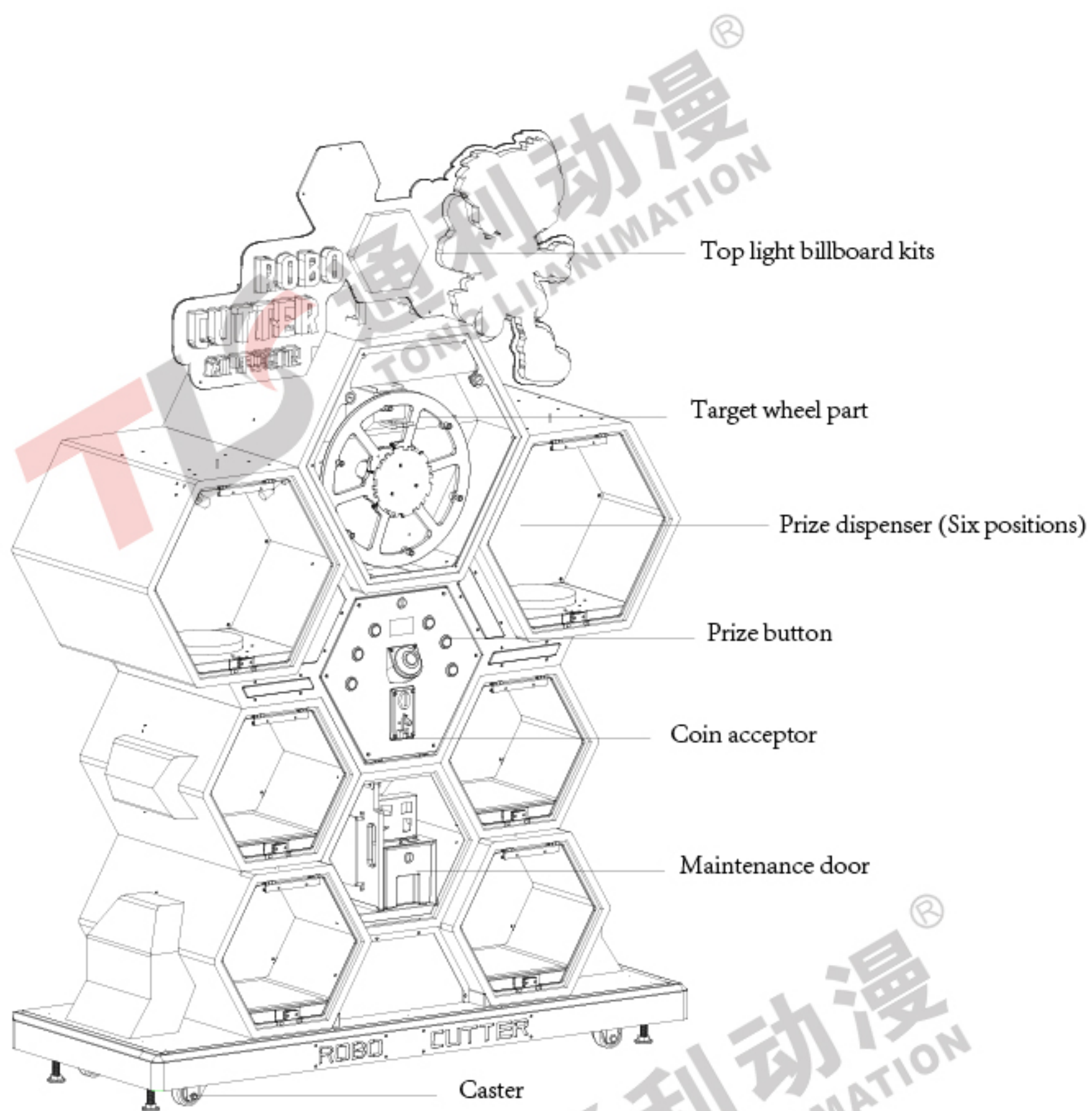
1.1 Dimension



1.2 Specification

Items	Value
Consumption	750W
Frequency range	50Hz
Voltage	AC220V
Weight (kg)	217kg
Packing dimension (W* D* H)	1570*670*1950(mm)
Dimension (W* D* H)	1540*640*2270 (mm) (Top light billboard included)

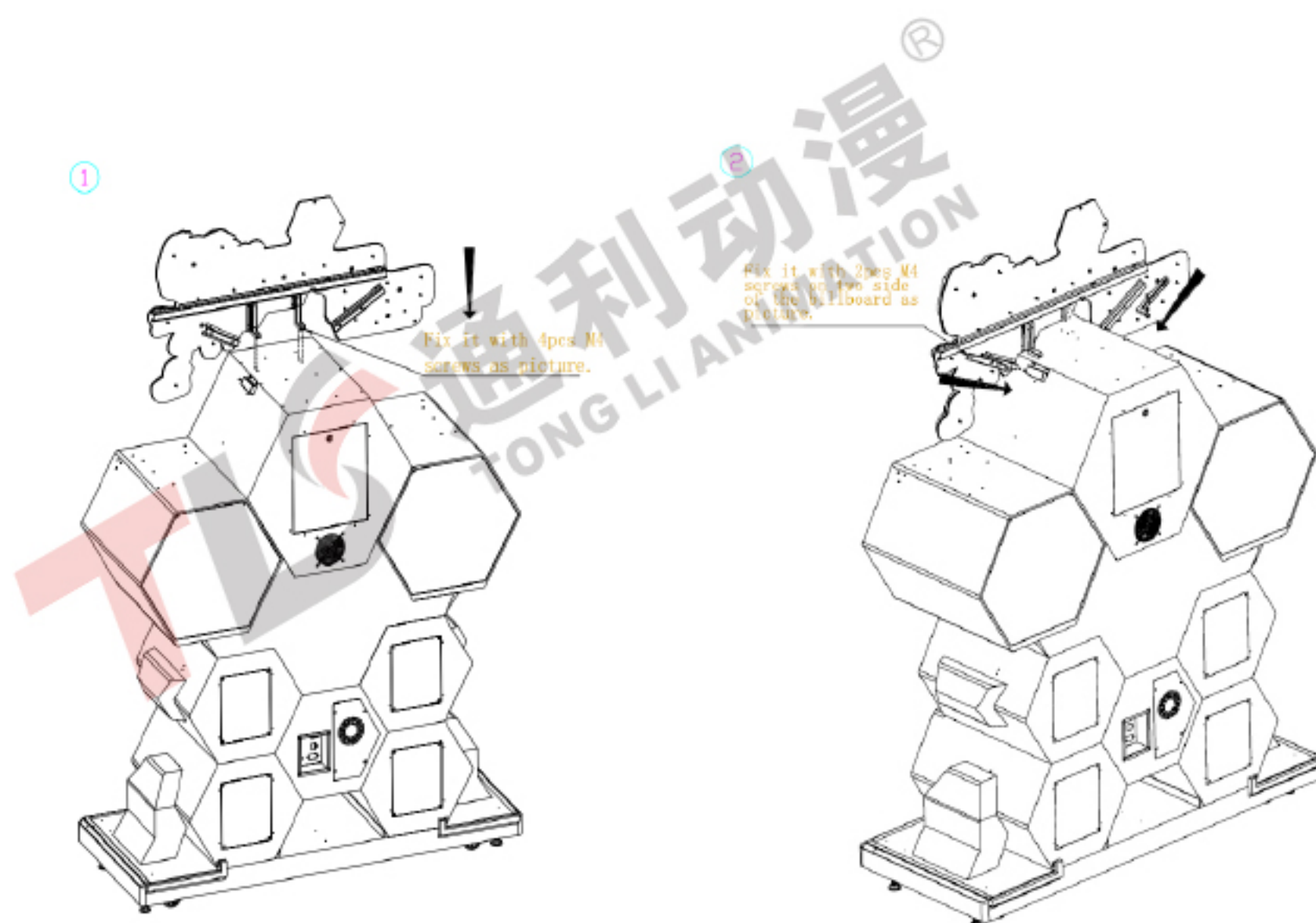
1.3 Name of parts



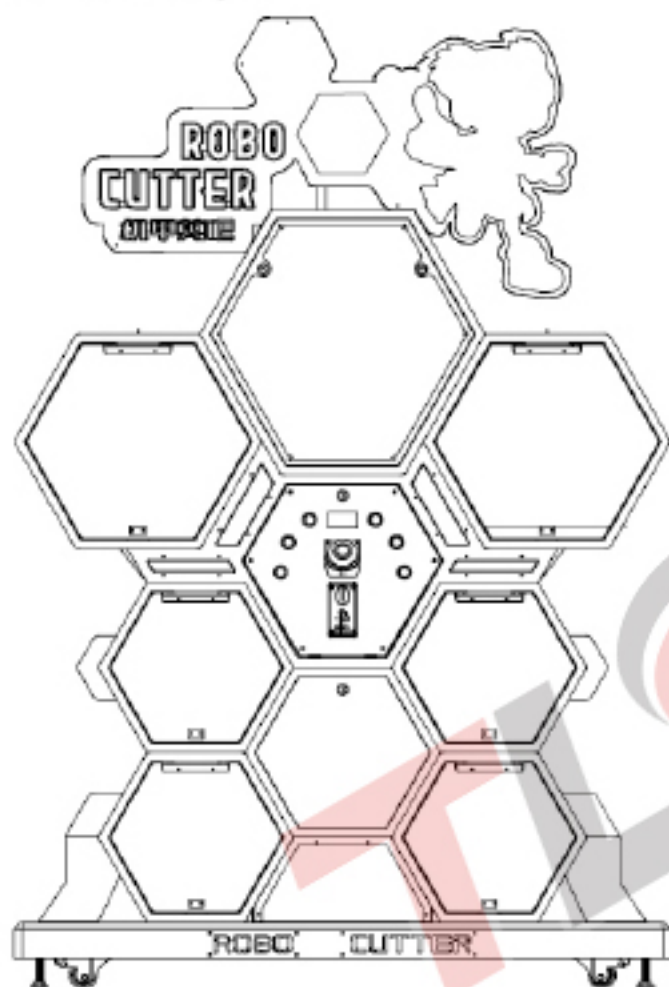
1.4 Components

No.	Part name	Spec.	QTY
1	AC power cord		1
2	TS005 keys		2
3	TS006 keys		2
4	5 inch knot ties (white)	2 packs (2000pcs)	2
5	2.5mm wrench		1
6	3.0mm wrench		1
7	Manual		1
8	Operation instructions		1
9	Metal blade for crane (Type B)	wearing parts	2
10	Fixed plate for metal blade (1.2.)	wearing part, one piece for each type	2

1.5 Top billboard installation



3 Installation complete.



2. Game control and prize supplement

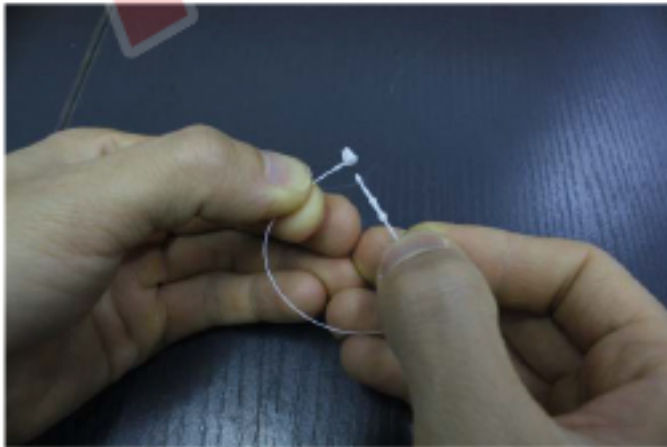
2.1 How to play

1. Insert coins to start game.
2. Choose your target prize and press button.
3. Keep pressing the [Confirm] button in limited time, and release the button until the scissor move to the right position.
4. The door of prize dispenser will open auto when the string is cut off. Players win the prize.
5. The string might not be cut off by one time, keep trying.

Tips:

When machine indicates prize supplement, keep pressing [Confirm] button for 5 sec., the door will open and prize can be supplemented accordingly.

2.2 Prize ties replacement: Open the door of target wheel, and replace prize ties as picture.



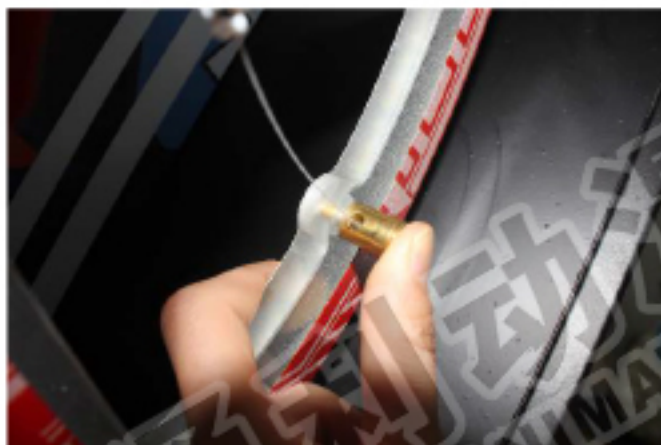
1. Fasten the tie off with a knot.



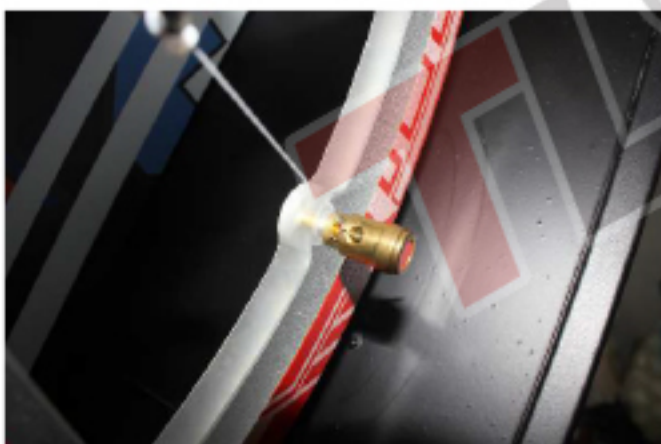
2. Leave the tie a circle 1cm in diameter.



3. Fasten the 1cm circle tightly to the hook on turning wheel.



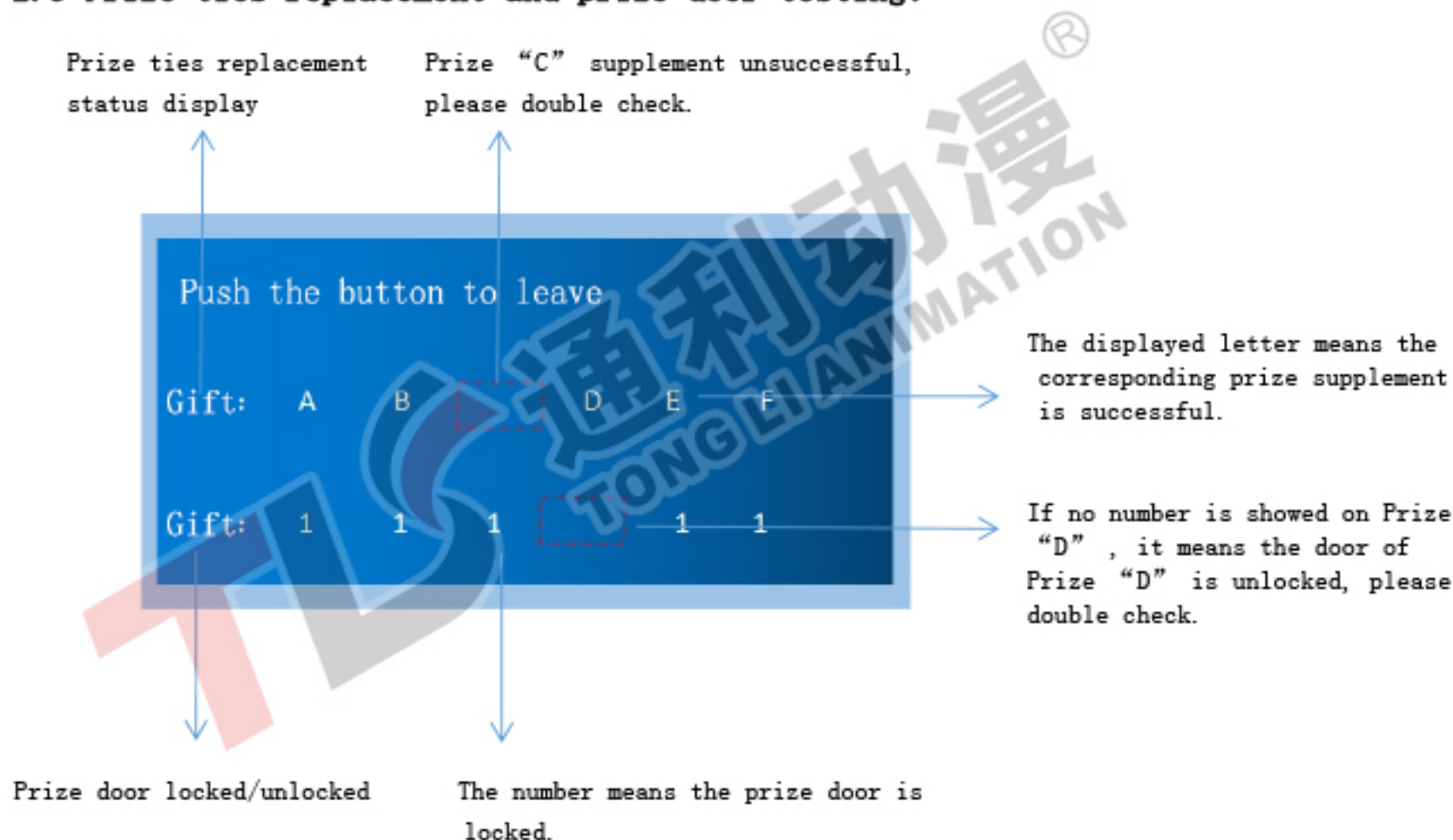
4. Tighten the other side of the tie: keep pressing the wheel edge buckle button and let the other side of tie pass through the hole and tighten the tie.



5. Tighten the tie and release the button, the prize tie will be fixed automatically.

!!! Remark: When you complete the prize tie replacement, please double check if the replacement is successful.

2.3 Prize ties replacement and prize door testing:



2.4 Instruction of prize ties replacement

1. Replace the prize ties first, then check if the prize door is opened.
2. Supplement the prize accordingly.
3. When you finish prize supplement, please lock the prize door. Press button to exit.

The lifespan of metal blade is limited to about 2000 times.

After that, they may not cut off the prize ties. Please replace the metal blade if necessary to avoid complaints from players.

3. Background management

3.1 Setting mode

In standby mode, press the cancel key on the small keyboard to enter the menu, and the screen displays as follows:

1. Check the accounts
2. Open door
3. Advanced settings
4. Testing.
5. Light board test (six gift grid lights and gift grid selection button lighting test)
6. System info
7. Exit.

After entering the menu option, use the keyboard up, down, left, and right to switch the options and parameters that need to be modified, and press the enter key to save.

! Check accounts.

Total accounts:

Total coin deposits: the total number of coin deposits in all gift boxes.

Number of games: the total number of games in all gift boxes.

Number of winnings: the total number of winnings in all gift boxes.

Last winning: "A" last winning box statistics.

Detail accounts:

Box A

Number of games: 0 (Statistics of number of games).

Number of winnings: 0 (Statistics of number of winnings).

Prize-out error: 0 (Whether there is an error display in the prize-out, if there is a quantity display, it means that the prize-out is abnormal and needs to be investigated).

The details of the gift box "B.C.D.E.F." are the same as Box A.

! Open door.

Open all: open all gift boxes doors

Open box A: open the gift door of box A

Open box B: open the gift door of box B

Open box C: open the gift door of box C

Open box D: open the gift door of box D

Open box E: open the gift door of box E

Open box F: open the gift door of box F

! Advanced settings

Enter the advanced settings, enter the password (initial password 80000000), press the enter key to enter, the screen displays as follows:

Game time: The time of each game, in seconds, ranging from 20 to 60 seconds, and the default is 45 seconds.

Coins for per credit: The coin value of each credit, ranging from 1 to 20 coins, the default is 3 coins per credit.

Odds of winning: Set the number of credits to be cut to give a gift, ranging from 2 to 999 credits, and 1 for 10 credits by default.

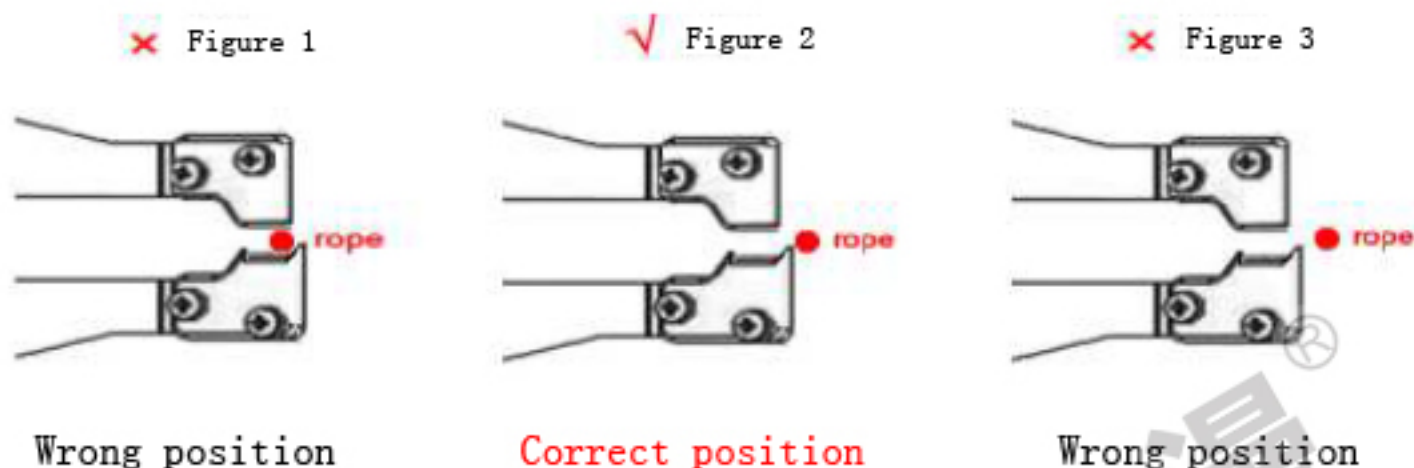
Gift price: Set the number of coins to be sold for the gift, ranging from 1 to 2000 coins, and the default is 999 coins.

Position correction: The position of the scissors has been calibrated before leaving the factory, please do not adjust it in daily use! To recalibrate, press right + OK to enter:

Use the keyboard up and down keys to control the forward and backward movement of the scissors so that the front end of the plastic piece on the left side of the scissors mouth is close to the gift hang rope (as shown in Figure 2), press the confirm button to save, the scissors will return to the just saved position again, at this time you must again

Confirm whether the position of the scissors is accurate, exit if it is accurate, and re-calibrate if it is not accurate.

After the position is corrected, return to the menu to enter the test. During the test, the scissors cannot be cut to the rope when the scissors run back and forth.



Clear accounts: clear all accounts.

Modify password: modify the password to enter the advanced settings, and "keep in mind" the new password after modification.

3.2 Test mode

The distance that the scissors avoid the rope during the simulation game and the troubleshooting of the various parts of the machine.

Winning signal: Test whether the winning switch is normal.

Coin signal: Test whether the coin acceptor is normal.

Front and rear reset: test whether the front and rear motors and reset photoeyes are normal.

Scissors reset: test whether the scissors motor and reset photoeye are normal.

Sound test: Test all sound effects of the machine.

3.3 System info

The online status of the payment module.

Station number: machine number.

Version: The version of the program.

Date: The software update date.

Exit the menu and return to the game interface.

3.4 Trouble shooting.

1. Door is opened

Solution: The gift door is not closed or check whether the electronic lock switch is damaged.

2. Waiting for replenishment gifts

Solution: The gift is not linked or the weight of the gift is too light.

3. Error of coin acceptor

Solution: Turn the coin acceptor switch to the normally open 'NO' position.

4. Front and back reset error

Solution:

(1) Shut down and restart, the crane will reset itself.

(2) If restarting cannot be restored, check whether the reset sensor is deformed or the line plug is loose.

5. Scissors reset error

Solution:

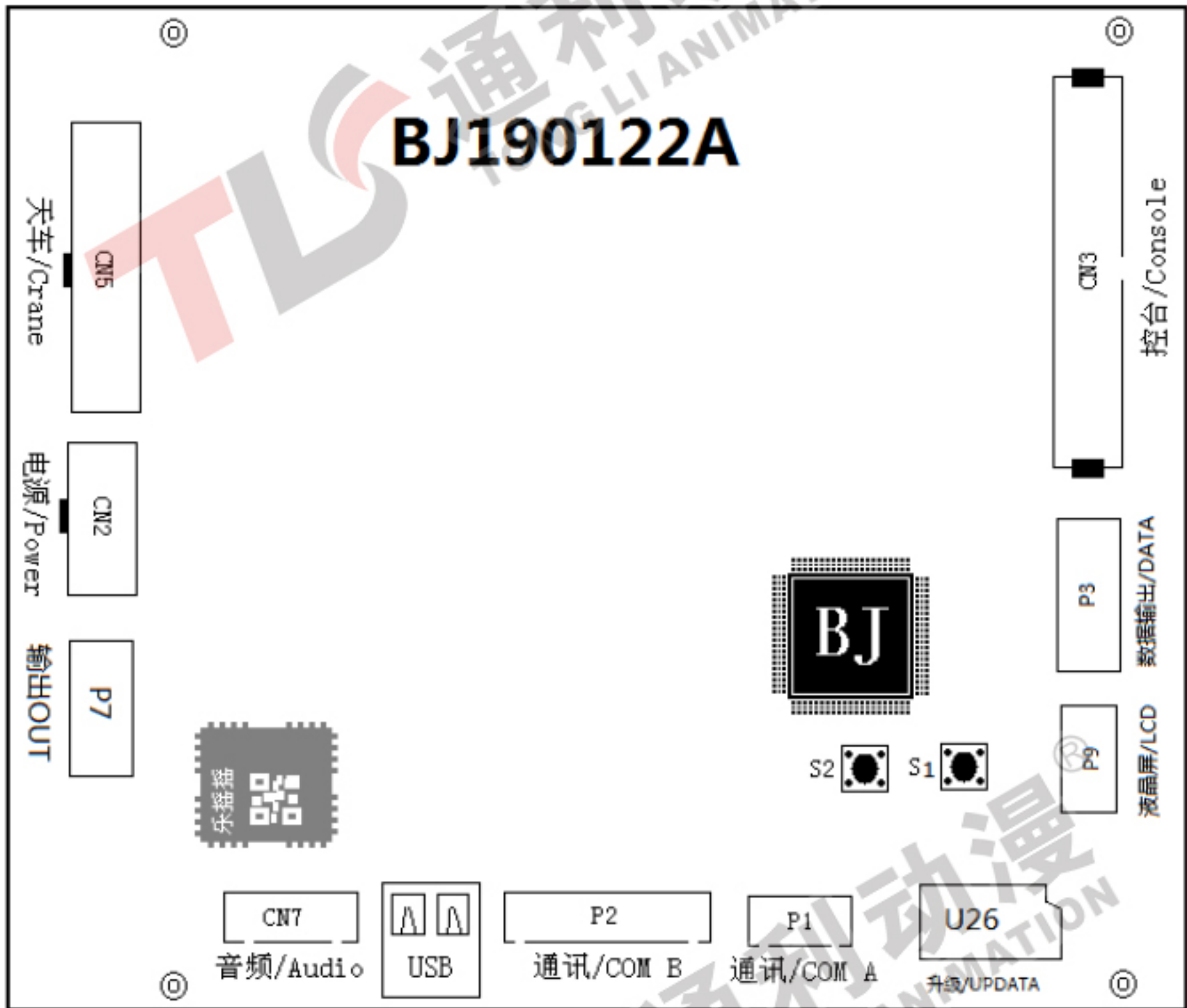
(1) Shut down and restart, and the scissors will reset by themselves.

(2) If the restart cannot be recovered, please contact the manufacturer's technical staff to help solve the problem after understanding the fault.

4. Software upgrade

Upgrade method: Power off, insert the SD card into the SD card socket of the motherboard; power on, the indicator D58 of the motherboard flashes quickly and flashes Stop to complete the upgrade; shut down and take out the SD card; start the game and you can play normally.
Check whether the upgrade is successful, press the small keyboard cancel key to enter the menu/system information/version (V.xxx is the program version).

5. Motherboard I/O sketch map



6. Motherboard interface sketch map

P1 通讯COM A

1	NULL
2	GND 乐摇摇GND
3	RX3 乐摇摇TX
4	TX3 乐摇摇RX
5	12V 乐摇摇12V

P2 通讯COM B

1	CANL
2	CANH
3	485B
4	GND
5	GND
6	485A

P3 数据输出/DATA

1	12V
2	5V LIGHT CARD 5V
3	PD1 Ticket IN
4	PDO
5	PC3
6	NSS LIGHT CARD ALE
7	SCK LIGHT CARD CLK
8	MOST LIGHT CARD ADOA
9	MISO
10	GND LIGHT CARD GND
11	GND

P9 液晶屏/LCD

1	GND LCD PORT 6/20
2	PC14 LCD PORT4
3	PC3
4	MISO
5	PC0 LCD PORT16
6	PC1 LCD PORT15
7	PC2 LCD PORT17
8	OP7 LCD PORT1
9	5V LCD PORT2/19

P7 输出/OUTPUT

1	OP9
2	OP10 E-lockF
3	OP11 E-lockE
4	OP12 E-lockD
5	OP13 E-lockC
6	OP14 E-lockB
7	OP15 E-lockA
8	12V E-lock12V

CN7 音频/AUDIO

1	SP- Speaker-
2	SP+ Speaker+
3	AUO Potentiometer2
4	AUI Potentiometer3
5	GND Potentiometer1

CN3 控台/CONSOLE

1	GND Coin Acceptor GND
2	GND E-lock Signal GND
3	GND Start Button GND
4	GND Select Button/Setting button GND
5	OP8
6	GND Turnplate Switch GND
7	IN47
8	IN48
9	IN45 Turnplate Switch E
10	IN46 Turnplate Switch F
11	IN43 Turnplate Switch C
12	IN44 Turnplate Switch D
13	IN41 Turnplate Switch A
14	IN42 Turnplate Switch B
15	IN37 E-lock Signal E
16	IN38 E-lock Signal F
17	IN35 E-lock Signal C
18	IN36 E-lock Signal D
19	IN33 E-lock Signal A
20	IN34 E-lock Signal B
21	IN31 Select Button E
22	IN32 Select Button F
23	IN21 Coin Acceptor COIN
24	IN28 Ticket OUT
25	IN25 Start Button
26	IN26 Setting Button
27	IN23 Left/Select Button C
28	IN24 Right/Select Button D
29	IN21 Up/Select Button A
30	IN22 Down/Select Button B
31	OP4 Ticket Codetable
32	OP6 Winning Codetable
33	OP2 Coins Codetable
34	OP3 Winning Light Card
35	5V
36	OP1
37	12V Coin Acceptor 12V
38	12V Code Table 12V
39	12V Ticket Acceptor 12V
40	12V Other 12V

CN5 天车/CRAVE

1	OPA9 Stepping Motor A-
2	OPA10 Stepping Motor A+
3	OPA3 Scissors Motor A+
4	OPA4 Scissors Motor A-
5	OPA1 Turnplate Motor A+
6	OPA2 Turnplate Motor A-
7	OPA7
8	OPA8
9	OPA5
10	OPA6
11	NC
12	GND Crane Photoeye GND
13	OPA11 OPA9 Stepping Motor B-
14	OPA12 OPA9 Stepping Motor B+
15	IN15 Front/Back Reposition Photoeye
16	IN16 Scissors Reposition Photoeye
17	IN17
18	IN18
19	IN14
20	IN13
21	IN12 Turnplate Reposition Photoeye
22	IN11 Turnplate Counting Photoeye
23	5V Photoeye 5V
24	GND Turnplate Photoeye GND

电源CN2/POWER

1	5V
2	12V
3	12V
4	GND Power Box GND
5	NC
6	5V Power Box 5V
7	12V Power Box 12V
8	12V Power Box 12V
9	GND Power Box GND
10	GND

Light card wiring interface description

JP1 Power input

1	Power box 12V
2	Power box GND

IN Signal input

1	SH_CP
2	ST_CP
3	DIN
4	GND

P1 Box light/select button light A

1	+ Light 12V
2	- Light GND

P2 Box light/select button light B

1	+ Light 12V
2	- Light GND

P3 Box light/select button light C

1	+ Light 12V
2	- Light GND

P4 Box light/select button light D

1	+ Light 12V
2	- Light GND

P5 Box light/select button light E

1	+ Light 12V
2	- Light GND

P6 Box light/select button light F

1	+ Light 12V
2	- Light GND

P7 Winning light

1	+ Light 12V
2	- Light GND

P8 Winning light

1	+ Light 12V
2	- Light GND

7.MAINTENANCE

Dear Customers:

Thanks for your purchasing from Tong Li! We will constantly improve our quality and service, and provide you better quality, high-efficiency, professional products and after-sales service. For protect your legitimate rights and interests, please read this manual detail, and knowing our service content, if the products and accessories were broken without according to this manual, we will not responsible for warranty, and only provide products and accessories for value.

1. Guarantee term.

Guarantee period of crane machines electronic components is 12 months from the purchasing.
(Base on the PI date.).

2. The situation without guarantee.

After you purchase this product, if the machines were broken by below reasons, we can not provide guarantee according to this term, and will provide you service for value.

- (1) The whole machine or the parts is over the guarantee period.
- (2) LCD monitor surface is scuffing, weeping, fracture by human error.
- (3) User breached this manual, install, keeping and use wrongly causes to broken.
- (4) Fixing by person without our company authentication, user fixed (Wrong operation, scuffing, knock mark by human error, water-dampness, supply improper voltage.) causing to broken.
- (5) No purchase and guarantee voucher.
- (6) Guarantee and purchase voucher are modified by human.
- (7) The model and number are not match with matter.
- (8) The machine broken due to using the accessories without our authentication
- (9) The machine broken due to natural disaster (earthquake, fire).

3. Service type.

- (1) Once the products are broken down, please notice to us at once.
- (2) Products breakdown maintenance, please must send the unserviceable component to us, and provide the related purchasing voucher.

4. Reminder

- (1) The accessories during the fixing are belong to our company.
- (2) The service for value is containing cost of labor and fixing material.

5. Service and support.

- (1) Please review our website www.tonglianimation.com to get the latest information.
- (2) Technical support and after-service tel: 86-20-23885899



Product name: ROBO CUTTER
Company name: Guangzhou Tong Li Animation Technology co., Ltd.
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Version: Ver1.0
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