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1、 Brief introduction

Twin hoops is one new indoor amusement game machine which with attractive appearance,improved gameplay.

2、 Caution

2-1. Notice for installation

- This machine is for indoor use only (not outdoor).
- The game should be placed on flat floor to maintain its stability.
- Do not disassemble the machine without technical guidance.
- Make sure to turn off the power and pull out the plug before moving the machine.
- Put the machine on the flat floor,the location should be not slippery or shaken
- The machine should not be put in places of high temperature or near flammable equipment
- Should not put any heavy equipment on the top of the cabinet or the wiring of the game.
- Wirings of the machine should not be exposed to open air for a long time.

2-2. Notice for operation

- Check whether the power plug and power wire are in good conditions.
- Checks whether the power plug and power wire are in good conditions.
- Switch off the power before you perform any inspections.
- Only experienced electricians and technicians are allowed to check the electrical parts for the game.
- Appropriate technical parts should be used for all replacement.
- Hold the plug instead of the wire to unplug the power cord.
- Do not plug or unplug the plug with wet hand, do not pull or twist the power wire

3、 ACCERSSORIES

Check whether the machine is packed with the following Accessories::

Name	Qty	Remark
Manual	1	
key	6	TY18 (4PCS) TY16(2PCS)
Power line	1	
Ribbon	20	
Small basketball	10	

Inflatable needle	1	
Screw	1bag	

4、How to play

- Press the button to start the game;
- Throw the basketball to basket within limited time;
- More goals, higher scores .

5、Parameter

Model: CP.MZLQ

Indoor temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$

Dimension: 1570D mm × 1400W mm × 2300H mm

Weight: 140 KG

Power: 70W

Players: 2

六、Machine outlook

Time digital display: Shows the play time

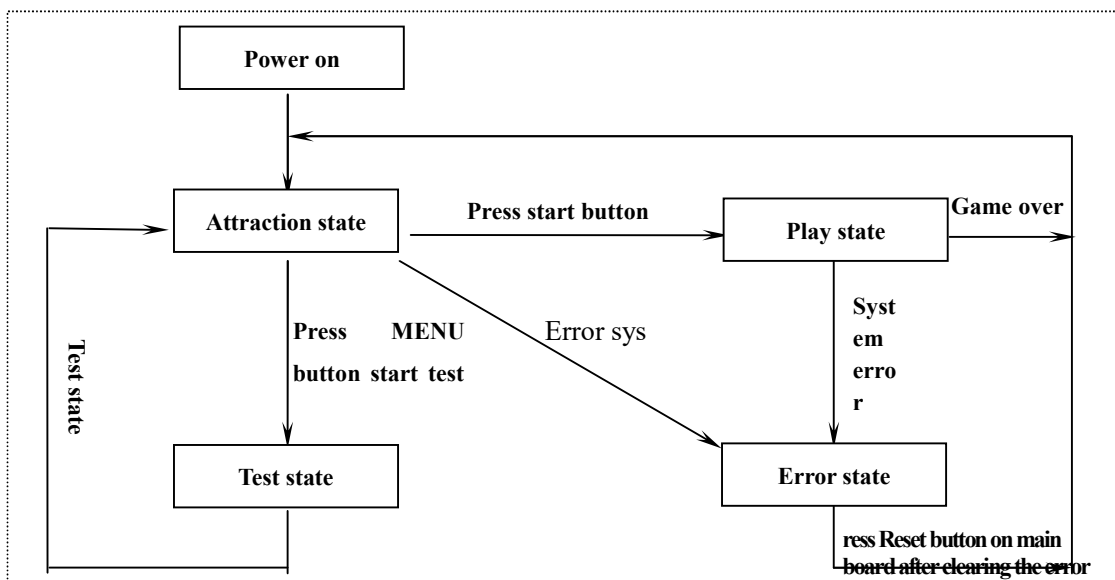
Score digital display: Shows player's score

Power supply: Supply +5V/+12V DC power

Main Board: Main programme system and control all parts work

七、Operation

When the machine is on need insert coin state, there are 4 states : Attraction state、test state、play state、error state。 Below Flow chart illustrates the above four status when machine is in coin play mode:



7-1.Switch on the power

Check the plug and cord. Make sure that it has been set to corresponding to the voltage for the machine, and then switch on the power.

7-2.Play state

The score digital display shows the current score;The time score digital display shows balance time.

7-3.Attraction state

During attraction mode,the digital display  is always changing with music. Please press MENU button 0.5 second and enter test state,press service button the machine enter to play state.

7-4.Test state

During test state,this state can repair System and other input/output terminal and music normal work. Press MENU button,music stop the machine enter to test state.

7-5.Error state

When machine works ,when system error ,the alarm sounds, machines shows error code EX and the X means code:1,2,3,4,5..6.7.8.9.10.11.12You can check the code with manual explanation and solve the problem;All problem was fixed and restart machine.Error code list for your reference.

8、 Appendix

8-1.DIP connection on main board

Plug code	Pin code	Pin color	Function	I/O code	Function of I/O
	PIN 1	0.3—Brown	Speaker +	-----	
	PIN 2	0.3—White	Speaker -	-----	
	PIN 3	0.3—Yellow	+12V Output	-----	+12V power supply
	PIN 4	0.3—Yellow	+12V Output	-----	+12V power supply
	PIN 5	0.3—Yellow	+12V Output	-----	
	PIN 6	0.3—Yellow	+12V Output	-----	

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J2	PIN 7			----	
	PIN 8	0.3—Yellow	+12V Output	----	
	PIN 9			----	
	PIN 10	0.3—Yellow	+12V Output	----	
	PIN 11	0.3—Yellow	+12V Output	----	
	PIN 12	0.3—Yellow	+12V Output	----	
	PIN 13	0.3—Yellow	+12V Output		
	PIN 14	0.3—Yellow	+12V Output	----	
	PIN 15	0.3—Yellow	+12V Output		
	PIN 16	0.3—Yellow	+12V Output	----	
	PIN 17	0.3—Yellow	+12V Output	----	
	PIN 18	0.3—Yellow	+12V Output	----	
	PIN 19	0.3—Green	Serial Output CLK	----	Display board output (CLK)
	PIN 20	0.3—Brawn	Serial Output DAT	----	Display board output (data) Wire connect order: 1、 1P play time 2、 1 P play score 3、 High score 4、 2P Play score 5、 2P play time
	PIN 21	0.3—White	Serial Output LATCH	----	Display board output (memory)
	PIN 22	0.3-Black	GND	----	GND power supply
	PIN 23	0.3-Black	GND	----	GND power supply
	PIN 24	0.3-Black	GND	----	
	PIN 25	0.3-Black	GND	----	
	PIN 26	0.3-Black	GND	----	
	PIN 27	0.3—Brown	Output	OUT0	Coin enter meter
	PIN 28	0.3—Pink	Output	OUT1	Ticket meter
	PIN 29	0.3—Orange	Output	OUT2	Ticket drive #1
	PIN 30	0.3—SkyBlue	Output	OUT3	Ticket drive #2
	PIN 31	0.3—Green	Output	OUT4	Start button #1 light
	PIN 32	0.3—Blue	Output	OUT5	Start button #2 light
	PIN 33	0.3—Purple	Output	OUT6	
	PIN 34	0.3—Gray	Output	OUT7	
	PIN 35	0.3—Brown	Output	OUT8	

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J2	PIN 36	0.3—Pink	Output	OUT9	J4 pin power charge control(12V relay) avoid electrify
	PIN 37	0.3—Orange (Output	OUT10	Start button light(red)
	PIN 38	0.3—SkyBlue	Output	OUT11	Start button light(yellow)
	PIN 39	0.3—Green	Output	OUT12	Start button light(blue)
	PIN 40	0.3—Blue	Output	OUT13	
	PIN 41	0.3—Purple	Output	OUT14	
	PIN 42	0.3—Gray	Output	OUT15	
	PIN 43				
	PIN 44				
	PIN 45	0.3—Orange	STXD0	----	
	PIN 46	0.3—SkyBlue	SRXD0	----	
	PIN 47	0.3—Green	Output		Console LED(red)
	PIN 48	0.3—Blue	Output		Console LED(green)
	PIN 49	0.3—Purple	Output		Console LED(blue)
	PIN 50				
J3	PIN 1	0.3—Brown	Keypad CLK output	----	KEYPAD CLK
	PIN 2	0.3—Pink	LCD order/DATA control output	----	LCDOder/data control output
	PIN 3	0.3—Orange	LCDOption control output	----	LCD option control output
	PIN 4	0.3—SkyBlue	LCDReset control output	----	LCD reset control output
	PIN 5	0.3—Purple	Keypad serial input	----	KEYPAD data input
	PIN 6	0.3—Brown	Keypad memory control output	----	KEYPAD Lock save control output
	PIN 7	0.3—White	LCD Serial data output	----	LCDserial data output
	PIN 8	0.3—Green	LCD Serial CLK output	----	LCD serial CLK output
	PIN 9	0.3—Purple	RS232 TX	----	
	PIN 10	0.3-Green	RS485 TR+	----	
	PIN 11	0.3-Gray	RS232 RX	----	
	PIN 12	0.3—Blue	RS485 TR-	----	
	PIN 13	0.3-Brown/white	Input	IN0	#1 Up score sensor signal
	PIN 14	0.3-Red/white	Input	IN1	#1 Down score sensor signal
	PIN 15	0.3-Orange/white	Input	IN2	#2 Up score sensor signal
	PIN 16	0.3-Yellow/white	Input	IN3	#2 Down score sensor signal
	PIN 17	0.3-Green/white	Input	IN4	# Strobe open
	PIN 18	0.3-Blue/white	Input	IN5	# Strobe close
	PIN 19	0.3-Purple/white	Input	IN6	
	PIN 20	0.3-Gray/white	Input	IN7	

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J3	PIN 21	0.3-Brown/white	Input	IN8	#1 Ticket feedback signal
	PIN 22	0.3-Red/white	Input	IN9	#2Ticket feedback signal
	PIN 23	0.3-Orange/white	Input	IN10	#1 Start button signal
	PIN 24	0.3-Yellow/white	Input	IN11	#2Start button signal
	PIN 25	0.3-Green/white	Input	IN12	#1 Coin enter signal
	PIN 26	0.3-Blue/white	Input	IN13	#2 Coin enter signal
	PIN 27	0.3-Purple/white	Input	IN14	
	PIN 28	0.3-Gray/white	Input	IN15	
	PIN 29	0.3-Brown/white	Input	IN16	
	PIN 30	0.3-Red/white	Input	IN17	
	PIN 31	0.3-Orange/white	Input	IN18	
	PIN 32	0.3-Yellow/white	Input	IN19	
	PIN 33	0.3-Green/white	Input	IN20	
	PIN 34	0.3-Blue/white	Input	IN21	
	PIN 35	0.3-Purple/white	Input	IN22	
	PIN 36	0.3-Gray/white	Input	IN23	
	PIN 37	0.3-Brown/white	Input (signal) (MCU)	IN24	
	PIN 38	0.3-Red/white	Input (signal) (MCU)	IN25	
	PIN 39	0.3-Orange/white	Input (signal) (MCU)	IN26	
	PIN 40	0.3-Yellow/white	Input (signal) (MCU)	IN27	
	PIN 41	0.3-Green/white	SPI_CLK' (MCU)		
	PIN 42	0.3-Blue/white	SPI_MOSI' (MCU)		
	PIN 43	0.3-Purple/white	SPI_CS' (MCU)		
	PIN 44	0.3-Gray/white	SPI_MISO' (MCU)		
	PIN 45	0.3-White	+3.3V Output;	-----	LCD power VDD
	PIN 46	0.3-Black	GND	-----	LCD power GND
	PIN 47	0.3-Red	+5V Output;	-----	KEY PAD power +5V
	PIN 48	0.3-Black	GND	-----	Key pad power GND
	PIN 49	0.3-Red	+5V Output	-----	
	PIN 50	0.3-Black	GND	-----	
J5	PIN 1	0.3—Brown	Output	LED24	
	PIN 2	0.3—Pink	Output	LED23	
	PIN 3	0.3—Orange	Output	LED22	
	PIN 4	0.3—SkyBlue	Output	LED21	
	PIN 5	0.3—Green	Output	LED20	
	PIN 6	0.3—Blue	Output	LED19	
	PIN 7	0.3—Purple	Output	LED18	
	PIN 8	0.3—Gray	Output	LED17	

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	PIN 9	0.3—Brown	Output	LED16	
	PIN 10	0.3—Pink	Output	LED15	
	PIN 11	0.3—Orange	Output	LED14	
	PIN 12	0.3—SkyBlue	Output	LED13	
	PIN 13	0.3—Green	Output	LED12	
	PIN 14	0.3—Blue	Output	LED11	
	PIN 15	0.3—Purple	Output	LED10	
	PIN 16	0.3—Gray	Output	LED9	
	PIN 17	0.3—Brown	Output	LED8	
	PIN 18	0.3—Pink	Output	LED7	
	PIN 19	0.3—Orange	Output	LED6	
	PIN 20	0.3—SkyBlue	Output	LED5	
	PIN 21	0.3—Green	Output	LED4	
	PIN 22	0.3—Blue	Output	LED3	
	PIN 23	0.3—Purple	Output	LED2	
	PIN 24	0.3—Gray	Output	LED1	
	PIN 25	0.3—Yellow	+12V connect 1K resistance	-----	
	PIN 26	0.3—Yellow	+12V connect 1K resistance	-----	
	PIN 27	0.3—Brown	+12V connect 1K resistance	-----	
	PIN 28	0.3—Brown	+12V connect 1K resistance	-----	
	PIN 29	0.3—Brown	+12V connect 1K resistance	-----	
	PIN 30	0.3—Brown	+12V connect 1K resistance	-----	
	PIN 31	0.3—Brown	+12V connect 1K resistance	-----	
	PIN 32	0.3—Brown	+12V connect 1K resistance	-----	
	PIN 33	0.3—Brown	+12V Output	-----	
	PIN 34	0.3—Brown	+12V Output	-----	
J4	PIN 1	0.3—Brown	Output	OUT16	Strobe motor
	PIN 2	0.3—Yellow	PWM_EX	-----	+12V power supply
	PIN 3	0.3—Orange	Output	OUT17	
	PIN 4	0.3—Yellow	PWM_EX	-----	
	PIN 5	0.3—Green	Output	OUT18	#1Top light box LED(red)
	PIN 6	0.3—Yellow	PWM_EX	-----	
	PIN 7	0.3—Purple	Output	OUT19	#1Top light box LED(green)
	PIN 8	0.3—Yellow	PWM_EX	-----	
	PIN 9	0.3—Brown	Output	OUT20	#1Top light box LED(blue)
	PIN 10	0.3-Black	PWM_GND	-----	
	PIN 11	0.3—Orange	Output	OUT21	#2Top light box LED(red)
	J4	PIN 12	0.3-Black	PWM_GND	-----

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PIN 13	0.3—Green	Output	OUT22	#2Top light box LED(green)
PIN 14	0.3-Black	PWM_GND	-----	
PIN 15	0.3—Purple	Output	OUT23	#2Top light box LED(red)
PIN 16	0.3-Black	PWM_GND	-----	GND power supply

Parameter set description:

(1) Mini keypad

UP:system parameters+; VOL-: EXIT : CLEAR:

DOWN:system parameters-; VOL+: ENTER: confirmed MODE: mode change

Parameter settings description:

Press the CLEAR DATA button anytime and clear all the data(Remark: Clear the coin QTY,ticket QTY and the system without any change)

Attraction state,Press MENU button and enter test state, and back to attract mode by entering mode.

Menu option, down means come o next page, up means come to last page. Parameter settings, up means+, down means-.

Attract mode, VOL+ means turn vol up, VOL- means turn vol down, if no operation within 2 seconds, it will return to attract mode.

Attract mode, UP means lighten the LCD, down means weaken the LCD

Menu display as below:

1. System info (can not be changed)

Serial Number

Date of MFG

Game Audits

(1)、coin QTY

(2)、Ticket QTY

2、 Game Setting (set all the item value)

- 1、 X coin X game (free , 1-9coins/game)
- 2、 game ticket QTY (no ticket,1-20 score/ticket)
- 3、 Play time (1-5 rounds can set each round play time, The set unit is S and from 30-60)
- 4、 Pass round score (1-5round can set each rounds score, from10-200)
- 5、 The last 10 s plus score(on or off
- 6、 Each ball get scores(1-2score)
- 7、 Pass round award tickets(0-20tickets)
- 8、 The max round setting (1-5 rounds, 3 round is factory setting)
- 9、 ON/OFF Attraction mode music(no music, 1-10 minutes play one time,loop playing)
- 10、 Link mode

3、 I/O test (input、 output)

1. Test All Inputs (showing all input terminal, black means valid, blank invalid.)
2. Test All Outputs (showing all output terminal, black means valid, blank invalid.)
3. Test all LED (not valid in this machine)
- 4、 **Burn test** (not valid in this machine)
- 5、 **Time setting** (Modify the current time,note the main board need a battery)
- 6、 **Music option** (EN/CN changing-over use UP/DOWN)

Errors and Solutions

E01 :1P Coin selector problem

E02 :1P Ticket dispenser problem

E03 :1P Up score sensor problem

E04 :1P Down score sensor problem

E05 :1P ticket shortage (Feed ticket to dispenser or set the machine is with no ticket)

E06 :Strobe open sensor problem

E07 : Strobe close sensor problem

E08 :2P Coins selector problem

E09 :2P Ticket dispenser problem

E10 :2P Up score sensor problem

E11 :2P Down score sensor problem

E12 :2Pticket shortage (Feed ticket to dispenser or set the machine is with no ticket)