
An instruction manual

Pinball Raiders



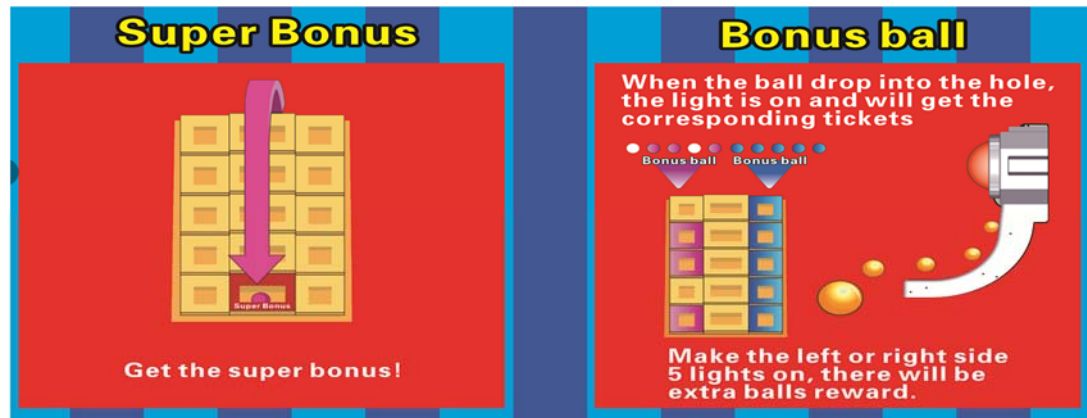
In order to ensure the long-term normal use of this product, the product should be fully inspected every 7 days when it is used (focus on regularly adding lubricant on the upper and lower chutes).

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A. Introduction of this product:

《Pinball Raiders》 is a carnival game machine, which is divided into 1. Tickets version 2. Gift version. Designed for public entertainment, an indoor entertainment machine, it has a fresh and lovely appearance, stable and solid machine, and easy to understand the game, is the best entertainment products in the playground revenue.



B. Features of this product:

- ✧ The purpose of new gameplay, stimulate, Full of
- ✧ leisure and entertainment;
- ✧ An elegant design, Bright pattern、Exquisite, Tube material selection、Iron and metal、Plywood and other materials production, Steel after rust treatment, Safe and durable;
- ✧ In the large scale integrated circuit, Built in style, Stable working performance、reliable;
- ✧ In the selection of high-end lottery machine, Any ticket machines are **acceptable**;
- ✧ The purpose of the game program and fine adjustable rate revenue.

C. Game methods

- 1.) after coin is put, the key controls the movement of the main part of the game
- 2.) stop the control button, the service device stops moving and the bouncy ball is launched from it
- 3.) the bouncy ball falls into one of the 15 holes and a lottery ticket with corresponding value is awarded
- 4.) when the left and right two accumulate 5 lights, you will give away the ball (the number of free balls can be set, and the factory default is 2).

D.Safety attention:

Before the machine is used., Please pay attention to the safety warning sticker on the machine; In the process of reading this manual please pay special attention to some matters needing attention。

E. Warning

This is a mistake if you don't pay attention, There is a possibility of injury。

If you don't pay attention., There may be an electric shock。

High pressure warning sign



F. Operational guidelines

(1) Technical parameters

- The working voltage : **220V/110V** (According to the determined nameplate)
- The power consumption: Minimum power: **250W**
Maximum power: **350W**
- Dimensions: **W750×D2000×H2450(mm)**
- The weight: about 190 kg
- Environment conditions: (Indoor) Temperature: **-10℃ ~ +40℃**

Humidity: $\leq 90\%$

Atmospheric pressure: **86KPa ~ 106KPa**

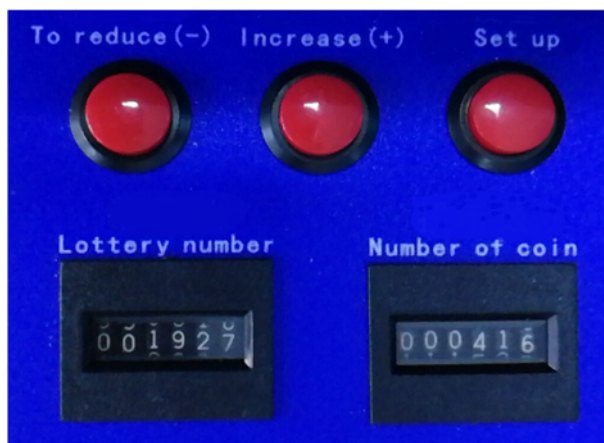
※ The above technical parameters such as adjustment without notice

(2) Specification requirements

- The package contents: Please open the package and count the items.

Name	Specification or material	Origin (Supplier)	Number	Company	Remarks
Pinball Raiders	W750×D2000×H2600(mm))		1		
American power line	DZ-301.10A\250V		1		Three straight head power line length 1.5 meters.
Infra-red	GP2A25		1		
Fuse	6×30mm5A\250V		1		
Key			2		
Electromagnet	DBX		1		
Instructions			1		

(3) The test and set



To enter the test program: when the machine is working, press "SET UP" or "Service" on the setting board to enter the setting program;

PINBALL RAIDERS PARAMETER LIST

(Adjustment parameters must be restarted after saving)

Access to test program: when the machine is working,
press "Service" on the setting board to enter the setting.

operation	display code	code content	operation	display code	code content
Press the seting button once	0—	Total input coins	Press the seting button again	C00	Set how many coins per play
Press the seting button again	1—	Total output tickets	Press the seting button again	C01	Set how many balls out per play
Press the seting button again	2—	Total balls out	Press the seting button again	C02	Set the numbers of balls rewards
Press the seting button again	3—	Total tickets refund	Press the seting button again	C03	Set the countdown to the start of the game
Press the seting button again	4—	Total times of rewards	Press the seting button again	H00—H14	Set the numbers of tickets, H00—H14 Each represents 15 prize pools
Press the seting button again	5—	Total balls rewards	Press the seting button again	H15	Added value for super bonus each input coin
Press the seting button again	6—	Total times of super bonus	Press the seting button again	H96	Test the prize motor
Press the seting button again	7—	Total tickets of super bonus	Press the seting button again	H97	Press the start button to exit the background
Press the seting button again	8—	Number of "3 Balls"	Press the seting button again	H98	Press the start button to restore the default and exit the background
Press the seting button again	9—	Total number of balls in "3 balls"	Press the seting button again	H99	Press the start button to clear accounts and exit the background

Troubleshooting

Fault code	Fault content	The solution
C77	Tickets fault	Replace the ticket mchine, check the line, press recover button and add tickets
C88	Prizes stock replenishment	Complete all the prizes, press the keys of add and subtract at the same time for 2 seconds to restart.
C89	Prizes motor fault	Check whether the prize motor and micro motor are normal or not.

(4)Prize pool value setting:

Press "set" once more, and the display will be "H00" to "H14" for 1 second, respectively representing 15 winners in the prize pool (digital tube display).


When setting a winning prize value, the winning prize will "blink".

Press "set" once more, and it will be displayed as "H97-" for 1 second. Press "start" to exit background Settings

Press "set" once more, and it will be displayed as "H98-" for 1 second. Press

"start" to restore factory default parameters and exit the background.

Press "set" once more, and it will be displayed as "H99-" for 1 second. Press "start" to clear accounts and exit the background.

H10	H05	H00
H11	H06	H01
H12	H07	H02
H13	H08	H03
H14	H09	H04
		

(5) Setting instructions of prize pool value:

Digital display	instructions	Settable range	Factory settings
H 0 0	Setting the goal 1	0 — 5 0 0	1 0
H 0 1	Setting the goal 2	0 — 5 0 0	2 0
H 0 2	Setting the goal 3	0 — 5 0 0	3 0
H 0 3	Setting the goal 4	0 — 5 0 0	2 0
H 0 4	Setting the goal 5	0 — 5 0 0	1 0
H 0 5	Setting the goal 6	0 — 1 5 0 0	5 0
H 0 6	Setting the goal 7	0 — 1 5 0 0	1 0 0
H 0 7	Setting the goal 8	0 — 1 5 0 0	2 0 0
H 0 8	Setting the goal 9 (3 balls)	3 balls	
H 0 9	Setting the goal 10	Super Bonus Numerical Settings Optional(1-1000) Fixed Value	

H 1 0	Setting the goal 11	0 — 5 0 0	1 0
H 1 1	Setting the goal 12	0 — 5 0 0	2 0
H 1 2	Setting the goal 13	0 — 5 0 0	3 0
H 1 3	Setting the goal 14	0 — 5 0 0	2 0
H 1 4	Setting the goal 15	0 — 5 0 0	1 0

(6).Proposal for Setting Parameters Recommended expenditure table of value (after setting, the average number of lottery tickets will be 2 COINS per game as the standard; if one coin per game is reduced, the average number of lottery tickets will be 2 times)

Recommended Form 1		
Average number of lottery tickets		10 张
4	3 0	4
8	5 0	8
1 0	1 0 0	1 0
8	Bonus	8
4	5 0 0	4
Table button		

Recommended Form 2		
Average number of lottery tickets		8 张
2	5 0	2
8	7 0	8
1 6	1 0 0	1 6
8	3 balls	8
2	5 0 0	2
Table button		

Recommended Form 3		
Average number of lottery tickets		12 张
6	5 0	6
1 0	7 0	1 0
2 0	1 0 0	2 0
1 0	3 balls	1 0
6	5 0 0	6
Table button		
Recommended Form 4		
Average number of lottery tickets		15 张
6	5 0	6
1 0	7 0	1 0
3 0	1 5 0	3 0
1 0	3 balls	1 0
6	5 0 0	6
Table button		
Recommended Form 5		
Average number of lottery tickets		18
6	5 0	6
1 0	1 0 0	1 0
3 0	2 0 0	3 0
2 0	3 balls	2 0
6	5 0 0	6
Table button		

Recommended Form 6 *		
Average number of lottery tickets		20
1 0	5 0	1 0
2 0	1 0 0	2 0
3 0	2 0 0	3 0
2 0	3 balls	2 0
1 0	5 0 0	1 0
Table button		
Recommended Form 7		
Average number of lottery tickets		25
6	5 0	6
1 0	1 0 0	1 0
2 0	2 0 0	2 0
1 0	3 balls	1 0
6	1 0 0 0	6
Table button		
Recommended Form 8		
Average number of lottery tickets		30
6	5 0	6
1 0	1 0 0	1 0
3 0	2 0 0	3 0
1 0	3 balls	1 0
6	1 0 0 0	6
Table button		

Recommended Form 9		
Average number of lottery tickets		30
1 0	5 0	1 0
1 0	1 0 0	1 0
2 0	2 0 0	2 0
1 0	3 balls	1 0
1 0	1 0 0 0	1 0
Table button		
Recommended Form 1 0		
Average number of lottery tickets		35
1 0	1 0 0	1 0
2 0	1 5 0	2 0
3 0	3 0 0	3 0
2 0	3 balls	2 0
1 0	1000	1 0
Table button		

G. Common faults and troubleshooting methods

Serial number	Fault	Cause analysis	Resolvent
1	The whole machine doesn't work.	1. Power outages 2. Power short circuit 3. E Damage to power switch	1. Check power supply AC failure, 220V \ 110V power supply is not normal 2. Test AC short circuit, 12V and 5V short circuit to GND

		4. Filling of fuses	3. Replace electric switch(wire box inlet assembly) with fuse
2	No sound.	1. Bad horn, loose thread 2. Main board failure	1. Change the horn. 2. Change motherboard
3	No coin.	1. The line doesn't go to the motherboard. 2. Mint damage.	1. Testing of coin lines 2. Coin changer
4	Ticket machines are always issued or do not issue tickets from time to time	1. Ticket machine stuck or damaged 2. Feedback signal lines do not reach the motherboard	1. Ticket Exchange 2 Tracking lines 3. Number of ticket machine repairs and supplements
5	No response to setting button	Set Key	1. Test settings for key lines 2. Detect settings keys
6	1. Set save data, storage failure 2. Problems setting data retention 3. Game save data storage failed	system	1. After the restart, there are still problems, replacing the motherboard 2. Enter setup mode, confirm setup and save(there are still problems replacing motherboards) 3. After the restart, there is still a problem, replacing CPU 4. Inspection of lines
7	The goal of LED IO	1 .1. No	1. Detection of the presence of a

	can not be sensed.	communication 2. No input signal into the ball's light eye(more than 2 consecutive times in the game can not sense the goal)	clip in the track 2. Detection of glassy eye state
8	The LED IO can't feel properly.	The light eye continues to signal.	1. Detection of IO board wire 2. Test for Goal I Board Eye
9	1. Detection of IO board wire 2. Test for Goal I Board Eye	1. After the ball is out of the lift, the light eye of the ball device has no signal 2. After serving, the light eye of the ball device always has a signal	1. Check the optical eye of the ball device 2. Check the ball track card 3. Check the action of the solenoid valve
1 0	The tee track can't move up and down.	1. Does not turn the motor on or has no signal in the optical eye(problem with the S/W sensor switch above and below the serving device)	1. Check motor movement 2. Check the motor to turn the eye 3. Check the S/W sensor switch up and down the serving device
1 1	The ball on the belt is malfunctioning.	1. The S/W sensor switch problem up and down the ball mechanism 2. The motor problem of the ball mechanism	1. Detection of motor movements 2. Test for balls 3. Detection of S/W sensor switches 4. Testing belt tension(rotation)

The fault detection steps and exclusion

1. The signal line coin (brown) and ground collision will produce information that coin, the normal operation of the line, need to replace the coin.
2. Meter detection: Whether the coin coin reaches the normal voltage signal line input IN1 is connected to the motherboard
 - (1) Not normal, replace coin;
 - (2) Then press the TEST key to exit the software test, or re power.

■ The machine daily maintenance and maintenance

Machine maintenance:

- (1) Every day in the business before the test machine can be used only after the normal operation;
- (2) When the machine has dirt and dust, clean it with a soft cotton cloth;
- (3) The new machine needs to check once a month after the operation of each part is normal;
- (4) Always check the machine.

H . Maintenance instructions

- It must turn off the power on the machine for maintenance and repair.
- In order to avoid short circuit, The relevant personnel in contact with the internal device before the power off. If this operation requires power on, Must comply with the requirements of the operating instructions.
- When replacing the device to determine the selection of appropriate accessories. Improper use of accessories can cause fire or electrical short circuit, Damage to the motherboard and components.
- Please do not disassemble、 Assemble、 Change equipment。
This can cause a fire or electrical short circuit、 Mechanical failure, etc..
Confirmed in mobile、 Flip、 Transportation to meet the requirements of manufacturers。
Random human movement、 Flip、 Transportation and other equipment will be damaged, Damage mechanical properties.
- This machine is suitable for indoor use, Not suitable for outdoor use.
Outdoor use will affect the performance of the machine.
- do not use the machine in the following places:
 - ★ Water Leakage or high humidity place.
 - ★ Near the place of high temperature object.
 - ★ Near the place of dangerous goods.
 - ★ Smooth or unstable place.
 - ★ People close to the spark equipment.
 - ★ I shake seriously place.
- Do not place above the machine vases, cups, containers of water, do not place the

chemicals and objects above the machine.

The liquid will cause the short circuit to damage the device, the chemicals will corrode the machine, the upper level will harm the human body and damage the machine.

- Don't place the object in the exhaust machine.

The exhaust port is blocked will cause the machine temperature rise, affecting the normal operation of the machine or even damage the device.

- The power line is not weight pressing.

This will damage the wires, causing short circuits and fires.

- Can not pull the plug directly with wet hands.

Otherwise it will cause electric shock injury to the human body.

- Can not stretch, Twist, Folding power line, The power cord can not be exposed to high temperature objects.

All of the above will damage the wire, Cause short circuit and fire.

- The power line can not easily be kicked or contact.

This will harm the human body and damage the machine.

- It must use the correct voltage and fuse (see technical parameters).

The use of other standard voltage will cause short circuit and fire, The use of unqualified fuses will damage the machine and cause fire.

- Can not arbitrarily on the machine for repair.

This can cause a fire or out of control failure.

**Thank you very much for your reference, our company will
serve you wholeheartedly!**