

CARNIVAL PARK



In order to prevent any problems arising from improper operation, you must carefully read this manual before installation and use machine, pay attention to the items marked in this book.

Please keep this book in good condition for future reference.

Summary

- ✧ Transportation, installation
- ✧ How to operate
- ✧ How to adjust Cost of play and Time of play
- ✧ Scheduled Maintenance
- ✧ Troubleshooting
- ✧ Parts list
- ✧ Circuit Wiring Diagram

Safety Attentions

- 1) Certain parts of the game is with high voltage (110/ 220 AC). Maintenance should only be performed by trained technician. Do not open the game door unless maintenance or parts replacement is required.
- 2) Please switch off the power before performing any maintenance.
- 3) Please switch off the power before opening the game door.

Installation

The game must be located properly to avoid damages.

DO NOT USE OUTSIDE OR IN WET ENVIRONMENT.

INDOOR USE ONLY

- 1) The voltage range of the game should be 105V ~ 115V/215V ~ 225V. The specific voltage for your game is noted on the date plate on the bottom access door of the game.
- 2) The plug must be plugged tightly to control box.
- 3) Please properly adjust the coin mech and the game settings when use at the first time. Check Dip switches on control box to confirm settings.

- 4) Please regularly check all the functions of the game when in operation

Notes of Maintenance

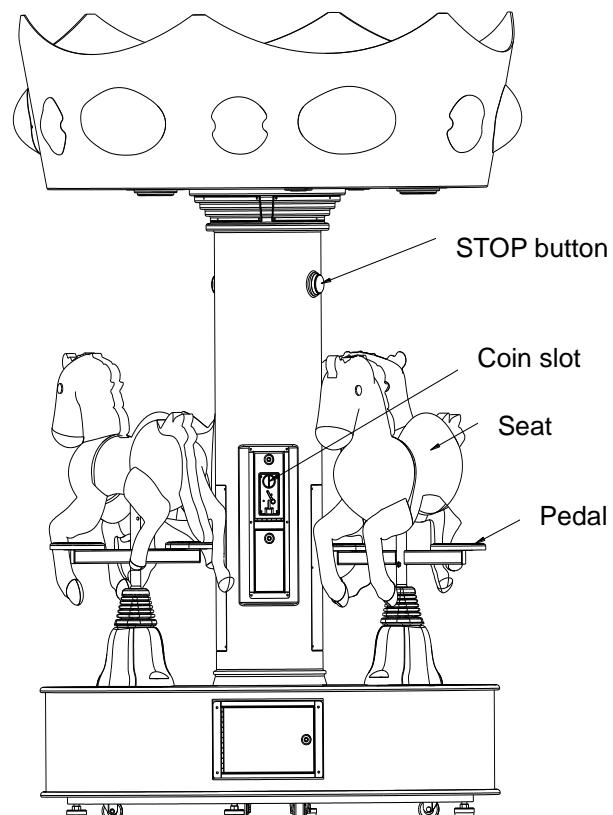
- 1) Be sure to check and maintenance the game regularly.
- 2) Switch off the power before replacing the parts of the game.
- 3) The parts for replacement should be the same model as the old one.
- 4) Please check the connection and voltage output after replacing the power supply.
- 5) The voltage of the PCB should be 5.1V ~ 5.4V.
- 6) Check whether the game has Proper input voltage (A/C) and the output (D/C) voltages before repairing the PCB

Cleaning Instructions

- 1) Please use clean and soft cloth to clean the game.
- 2) Prevent damaging the surface of the game, please do not use the following cleanser:
 - Abrasive Cleaners (Buffing compounds, waxing compounds)
 - Acidic Cleaners; (degreasers, detergents)
 - Insecticide, alcohol or other chemical cleaners

PLAYING INSTRUCTIONS

Sit on the seat. Insert coin and wait several seconds then it will start to run automatically. It will turn around and the horse will go up and down. Please sit down and hold steadily. If there is an emergency, please press the RED STOP button on the central pillar to stop the ride.



PARAMETERS

Voltage: AC220V / 110V (50/60 HZ)

Max. Current: 3A / 6A

(Note: The proper voltage and current used accords to the nameplate at the back door of the game.)

Max. Power: 650W

Power for standby mode: 60W

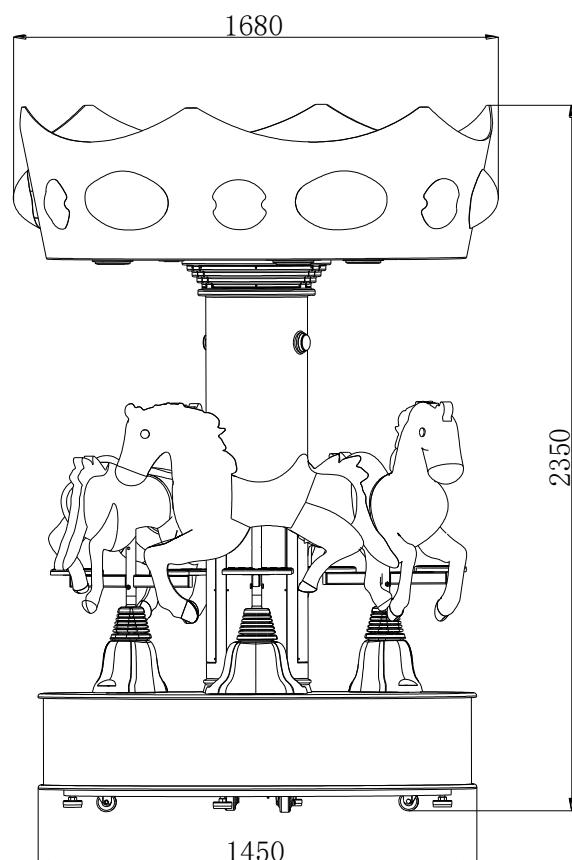
Coin size: $\varphi 21\text{mm} \sim \varphi 31\text{mm}$ (diameter)

1.2mm ~ 2.5mm(thickness)

Capacity of coin box: about 1500 pcs with coin size $\varphi 25\text{mm} \times 1.5\text{mm}$

Location required: indoor use; temperature: -5~40°C ; RH > 90%; no contact with any corrosive, greasiness and dirt.

Dimensions for Whole Game: D1680mm*H2350mm



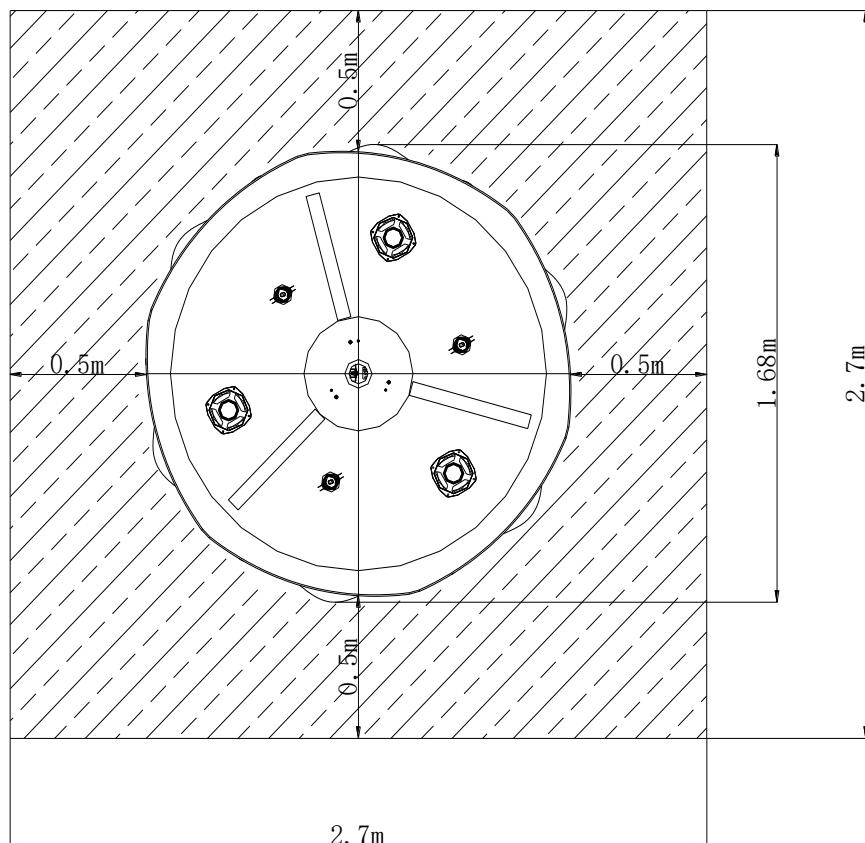
Accessories:

#	DRAWING	NAME	SPEC./MODEL	QTY
1		LED light	red	2
2		micro switch		2
3		key	1285#	2
4		key	1396#	2
5		power cord		1

INSTALLTION

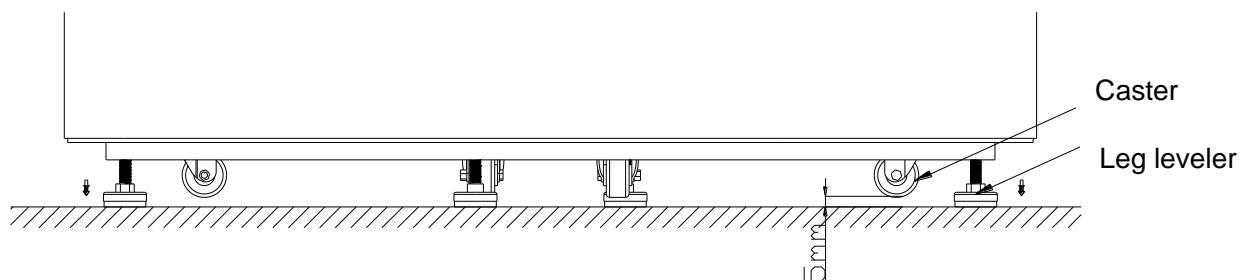
Please follow the steps of installation at the first time.

- 1) Place the machine with the same type of others according to its play classification and appearance.
- 2) Please refer to the suggested position and dimension below to place machine. Make an enough space for daily normal operation and ensure customers can play comfortably.



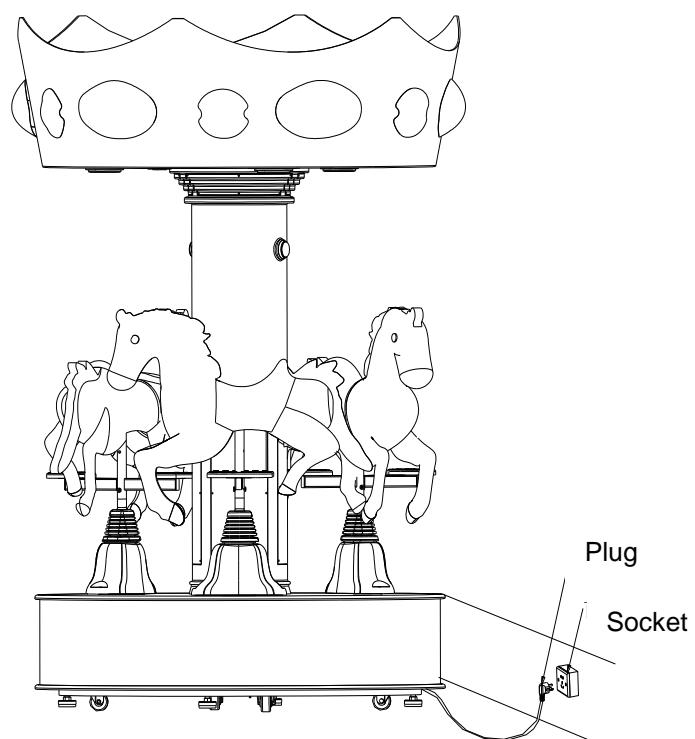
Note: Please place the game machine on the flat ground.

Fix the machine: Adjust the leg leveler down to keep the machine from rolling on it's wheels. Do not raise the machine so the wheels are any higher than 5mm off the floor..

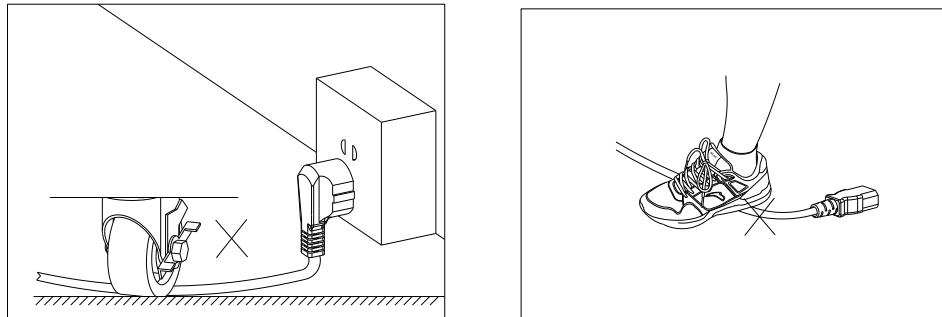


Check connection before power input

- 1) Check the internal structure of the machine for any looseness caused by transportation. The wire connector terminals should not fall out of the port.
- 2) Check the ground wire is connected to the ground.
- 3) Check the machine's power input at both ends of the impedance to the ground.
- 4) Adjust coin mech to accept proper tokens
- 5) Connect the power cord

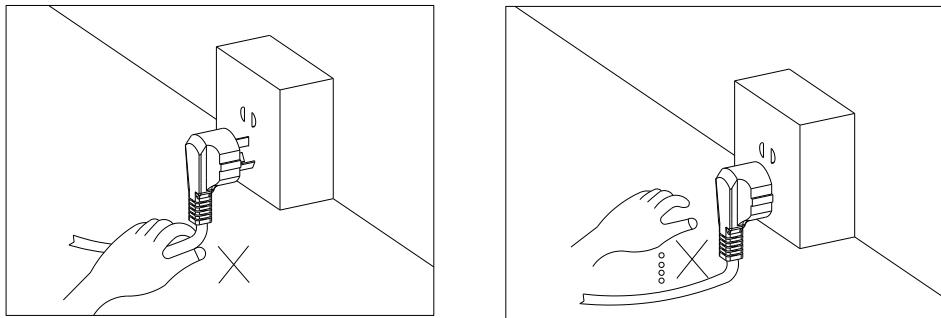


A Do not put heavy stuff on the power cable. That could cause a short circuit, even a fire.
The wire cannot be forced to stretch and bend. Do not expose the wire to near the stuff with high temp. Do not put wire where to be kicked or touched easily.



B When unplugging the power cable from the socket, please pull out by holding the plug, do not hold the wire.

Do not pull the plug with wet hands.



Power input

- 1) Ensure machine's input voltage is same as the nameplate.
- 2) Turn on the power switch after inputting the power.
- 3) Insert the sample token into the coin acceptor, put the coin into the coin acceptor and confirm that inserting coin is normal.
- 4) Check all LED display and lights are ok.
- 5) Set the game setting including coin qty, play time.
- 6) Start to play game and ensure the movement of machine is without any problem.
- 7) Ensure the sound is ok.

Check before operation

To ensure the machine can work properly and safety concern, it is necessary to do daily inspection before the operation.

Check the items below:

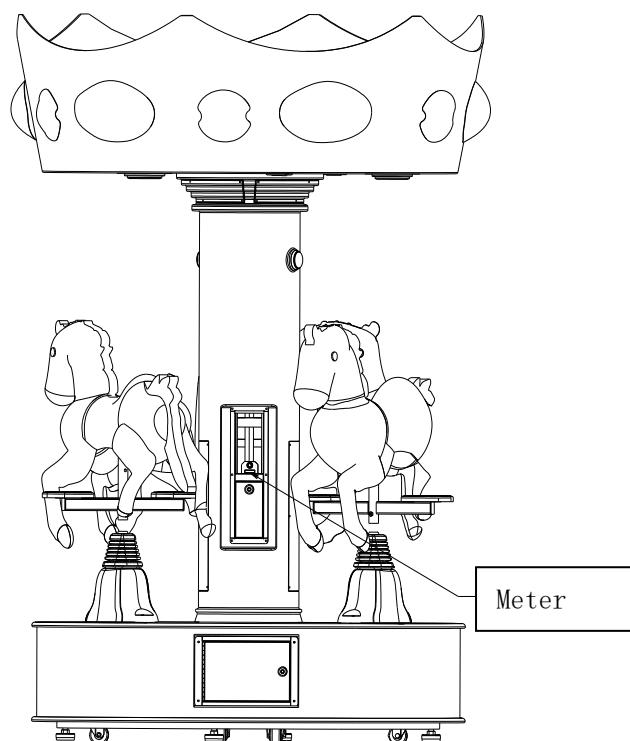
- 1) Power input wiring is fixed well and no damage
- 2) Ensure machine is fixed well.
- 3) Confirm there's no damage on the appearance.
- 4) Ensure there's no stain on machine and labels are fixed well.

Daily operation

1. Turn on the power switch
2. Inspect the LED display by visual checking.
3. Check background music works properly
4. Check the movements of rides and button can work properly.

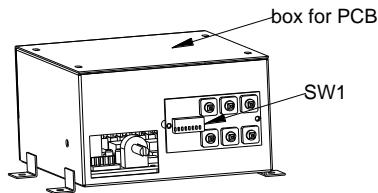
Collect coins and account

1. Open the coin box and collect coins after turning off machine.
2. Open the door to check the number of coin meter.



GAME SETTING

1. Open the door on the chassis of the game and you will see below setting board:



2. Setting chart:

SETTING	DIP SW1	1	2	3	4	5	6	7	8
No. of coin per play	1 coin	OFF	OFF						
	2 coins	ON	OFF						
	3 coins	OFF	ON						
	4 coins	ON	ON						
Game time per play	150 seconds			OFF	OFF				
	180 seconds			ON	OFF				
	240 seconds			OFF	ON				
	300 seconds			ON	ON				
Waiting time for playing background music	120 seconds					OFF	OFF		
	180 seconds					ON	OFF		
	90 seconds					OFF	ON		
	60 seconds					ON	ON		

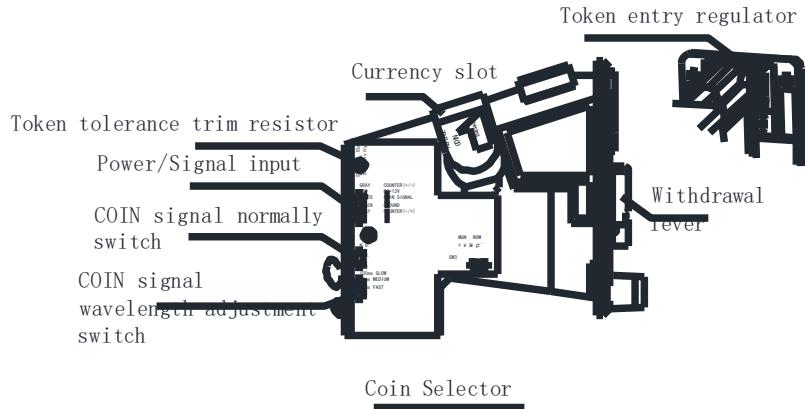
No. of coin per play: this setting decides how many pcs of coins for each play.

Game time for each play: this setting decides how long each play will last.

Waiting time for playing background music: this setting decides how long the waiting time will be for automatically playing background music.

ADJUSTMENT

Coin selector adjustment



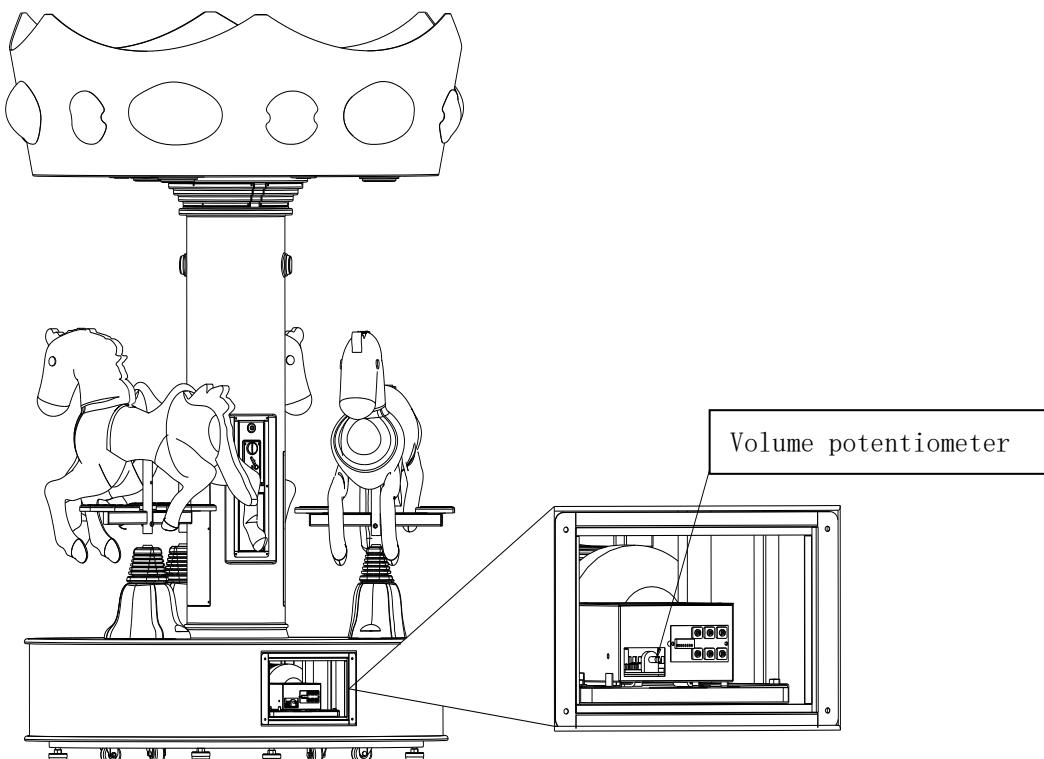
Adjustment:

- 1) Remove the plastic coin in slot and replace the using coin.
- 2) Loosen the screw at the back of coin slot and adjust the fixing piece according to the coin size to avoid the larger coin is stuck at the coin selector.
- 3) Set COIN switch at NO (COIN signal line to ground normally open) .Remark: this switch can be used as coin switch when machine is operating.
- 4) Adjust COIN signal wavelength to 50MS.
- 5) Adjust the token tolerance resistor according to the photo above, turn clockwise to adjust the sensitivity of the token tolerance increases, the range of acceptable tokens has larger tolerances; turn counterclockwise to adjust the sensitivity of the token tolerance to reduce the acceptable range of small coin tolerance.

Volume adjustment

1. Open the service door to find the sound board. There is a volume potentiometer on the sound

board.



2. Adjust the volume by turning the potentiometer.

 **Attention**

Please turn the volume potentiometer slowly. Do not turn to the rightmost position at one time to prevent the sudden increase of the volume output current and burn the speaker.

MAINTENANCE

 **Warning**

- Non-professional technicians do not check and maintain to avoid personal injury and damage to the machine.
- Ensure to turn off the power then do the maintenance
- Do not put tools or other object in machine to avoid any malfunction.
- After inspection, please install all parts and tighten the screws.

Daily inspection

ITEM	INSPECTION
Coin selector	Check if the coin selector can work properly.
STOP button	Check if the STOP button can work properly.
Sound	Check if the volume is proper.
Motor	Check if the motor can work properly.
Temp./Humidity	Check temp. and humidity of the surrounding environment is too high or not.

Daily maintenance

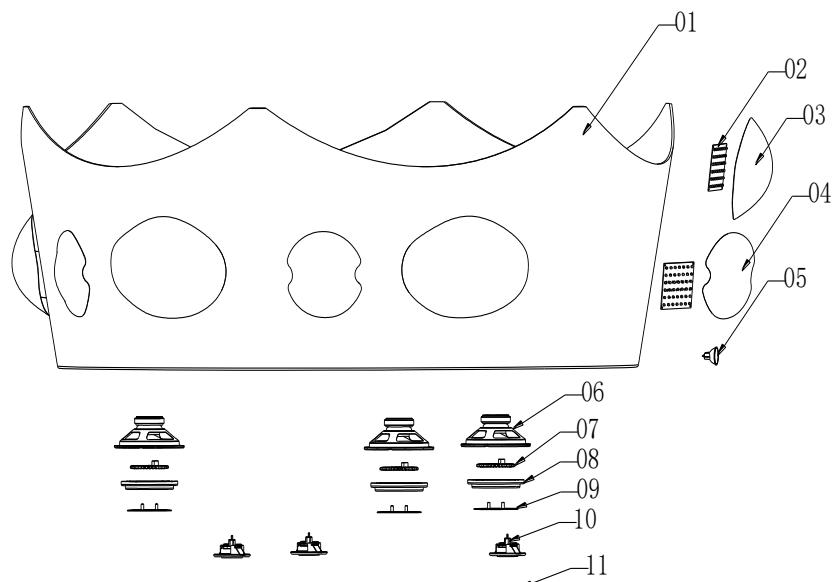
ITEM	MAINTENANCE
Cabinet	Clean the cabinet with clean water and absorbent paper.
Lifting bar	Add lubricating oil to the joint of lifting bar and mounted bearings.
PCB	Use a small brush to clean the dust and dirt.

TROUBLESHOOTING

PART	PROBLEM	CAUSE	SOLUTION	
coin selector	Coin inserted is invalid.	No sample coin in the coin selector.	Install the sample coin.	
		The sensitivity for coin is too high.	Adjust the sensitivity.	
	Coin in coin box is invalid.	Signal wire is loose.	Check the connection of coin selector.	
		Coin selector is bad.	Repair or replace the coin selector.	
turnplate	The turnplate can not move.	Solid relay is bad.	Replace the solid relay.	
		The port for motor of the main board is bad.	Replace the main board.	
		Bad connection of the motor.	Reconnect the wire of motor.	
		The motor is bad.	Replace the motor.	
horse	The lifting is not steady.	The horse is loose.	Fix the horse on the lifting bar.	
		No lubricating oil at the joint of the lifting bar and bearing.	Add lubricating oil.	
speaker	No sound.	Speaker is bad.	Replace the speaker.	
		The wire of speaker is loose.	Reconnect the wire of speaker.	
		Volume is too low.	Adjust the volume.	
		Main board is bad.	Repair or replace the main board.	
power	No reaction after switching on the machine.	No AC110V/220V power input.	Check the power connection.	
		Fuse is burnt	Replace the fuse.	
		No voltage output from power supply.	Repair or replace the power supply.	
		The voltage is too low from the power supply.	Adjust the output voltage from power supply to 5.2V	
		Main board is bad.	Replace the main board.	

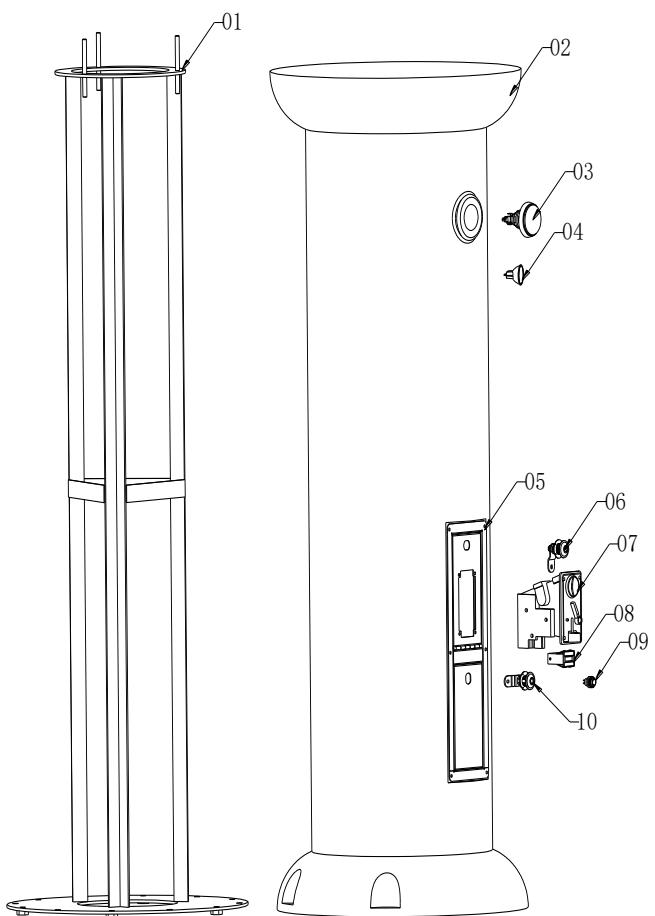
PARTS LIST

Marquee



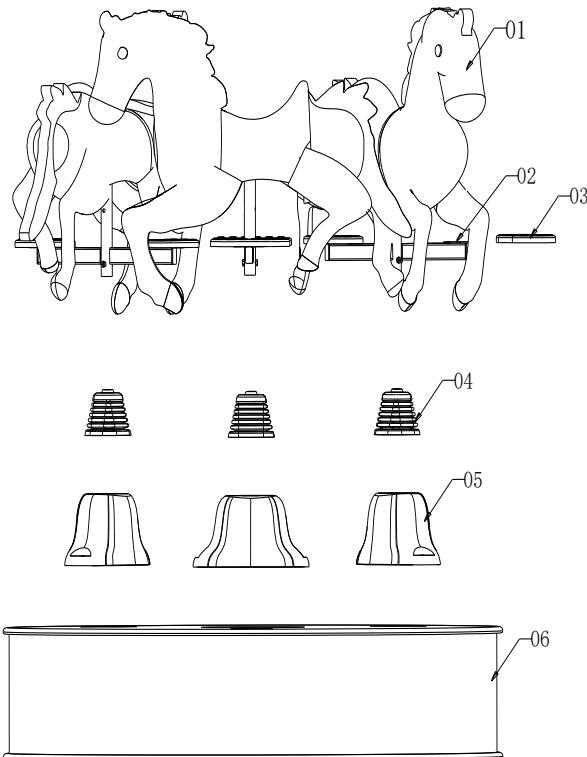
NO.	PARTS NAME	QTY	NO.	PARTS NAME	QTY
01	marquee fiberglass	1	09	speaker wire mesh	3
02	chasing light board A	12	10	spot light	3
03	marquee light lens A	6	11	speaker mesh	3
04	marquee light lens B	6			
05	LED light	12			
06	6" speaker	3			
07	speaker chasing light baord	3			
08	speaker acrylic	3			

Central pillar



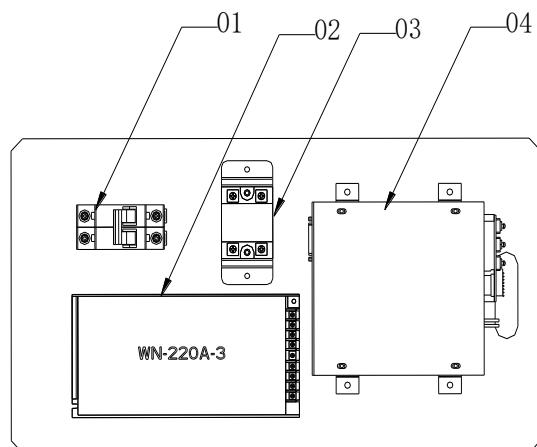
NO.	PARTS NAME	QTY
01	pillar	1
02	fiberglass	1
03	button	2
04	LED light	2
05	coin door	1
06	lock #1285	1
07	coin selector	1
08	meter	1
09	button	1
10	lock 1396	1

Fiberglass horse



NO.	PARTS NAME	QTY
01	fiberglass horse	3
02	metal parts	3
03	pedal	6
04	rubber cover	3
05	lifting bard cover	3
06	chassis fiberglass	1

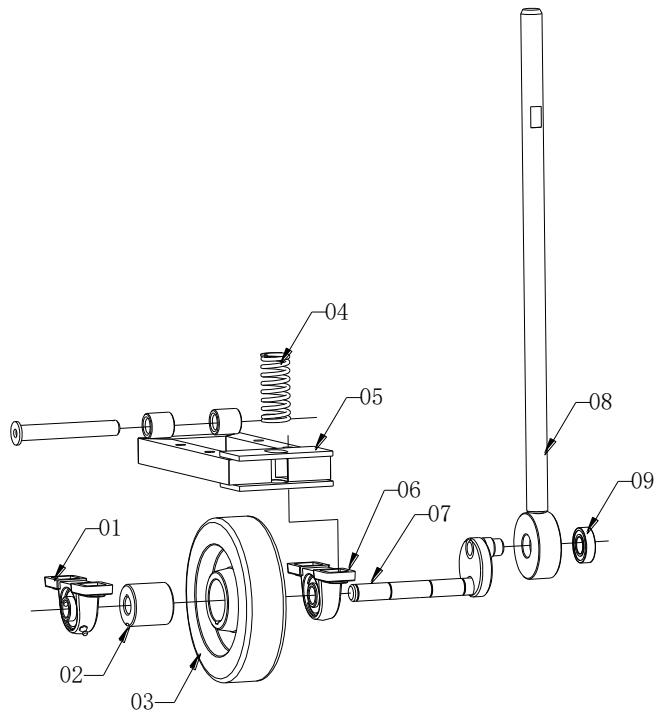
PCB assembly



NO.	PARTS NAME	QTY
01	circuit breaker	1
02	power supply	1
03	solid relay 25A	1
04	main board MP30	1

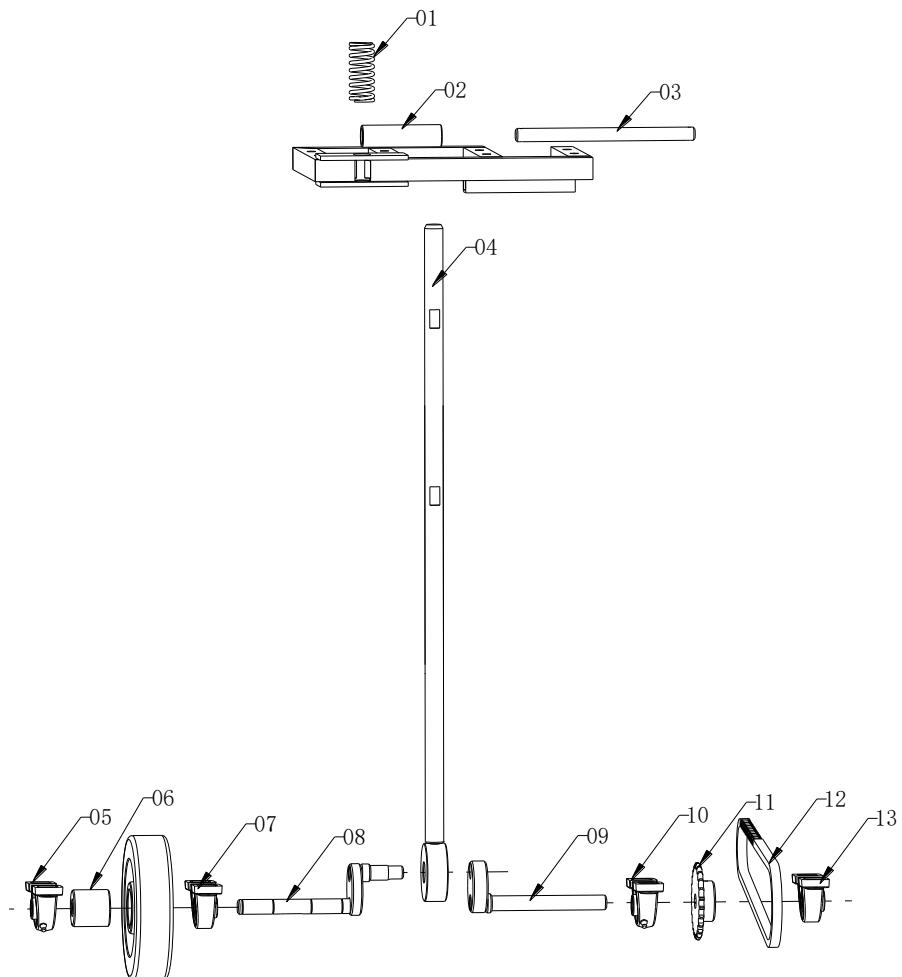
NO.	PARTS NAME	QTY	NO.	PARTS NAME
01	mounted bearing LK F205	3	11	carbon brush
02	turnplate	1	12	carbon brush holder
03	drive sprocket	1	13	chassis
04	motor 400W 1400r/min	1	14	caster 63
05	rotating wheel assembly B	1	15	leg leveler M16
06	rotating wheel assembly A	1		
07	rotating wheel assembly C	1		
08	mounted bearing LK F205	1		
09	conducting ring assembly	2		
10	carbon brush bracket	1		

Chassis assembly B, C



NO.	PARTS NAME	QTY
01	mounted bearing MZD P204	2
02	wheel sleeve	2
03	rotating wheel	2
04	spring	2
05	driven wheel holder	2
06	mounted bearing MZD P204	2
07	driven shaft	2
08	lifting bar	2
09	bearing	2

Chassis assembly A



NO.	PARTS NAME	QTY	NO.	PARTS NAME	QTY
01	spring	1	11	driven sprocket	1
02	drive wheel holder	1	12	chain	1
03	drive wheel shaft	1	13	mounted bearing MZD P204	1
04	lifting bar	1			
05	mounted bearing MZD P204	1			
06	wheel sleeve	1			
07	mounted bearing MZD P204	1			
08	drive shaft	1			
09	driven shaft	1			
10	mounted bearing MZD P204	1			

SCHEMATIC DIAGRAM

