


Angel Carousel



 **Be
Sure to Read
this Manual
Before Use**

Operation Manual

For Parts and Service, call Amusements Worldwide

www.amusementsworldwide.com

Tel: 214-750-9202

Serial Number:

Date of installation:

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WARNING

Non-technical personnel who do not have technical knowledge and Expertise should refrain from performing such work that this manual require or perform tasks which are not explained in this manual. Failing to comply can cause severe accidents such as electric shock or other serious injuries. All repairs must be performed to original manufacturer specifications.

WARNING: To reduce the risk of fire, electric shock or personal injury, unplug or disconnect the machine from the power supply before servicing.

Thank you for purchasing **Angel Carousel**. We hope you enjoy the product.

This manual contains valuable information about how to operate and maintain your game machine properly and safely. It is intended for the owner and/or personnel in charge of product operation. Carefully read and understand the instructions.

If you need any help during installation and setup please utilize this manual and troubleshooting guide. If the product fails to function properly, non-technical personnel should under no circumstance attempt to service the machine. Contact your distributor or manufacturer for help.

Before use, please read **IMPORTANT SAFETY INSTRUCTIONS**.

IMPORTANT SAFETY INSTRUCTIONS:

To ensure the safe usage of this product, carefully read and understand these instructions before operating your game.

Save these instructions for future reference.

Use this product only as described in this manual. Other uses not recommended may cause fire, electric shock or personal injury. Unplug the game from the outlet when not in use, when moving from one location to another, and before cleaning/servicing.

Explanations which require special attention are indicated by signs of warning. Depending on the potential hazardous degree, the terms: **NOTE**, **NOTICE**, and **WARNING** are used.

NOTE: A NOTE indicates useful hints or information about product usage.

NOTICE: A NOTICE indicates potential damage to product and how to avoid the problem.

WARNING: A WARNING indicates a potential for product damage or serious personal Injury.

It is important to understand the meaning of the following **HAZARD SIGNS** before continuing:

High Voltage and Shock Hazard:

High voltage can cause electric shock.
Turn off/unplug power before servicing.



High Temperature Hazard:

This part may cause scalding.
Do not touch. Surface may be hot.



No Touching Hazard:

This part may be hot or can cause electric shock.

Do not touch.



Use the following safety guidelines to help ensure your own personal safety and to help protect your equipment and surrounding environment from potential damage.



This product is an indoor game machine. Do not install outdoors.

Avoid installing in the following places to prevent fire, electric shock, injury and/or machine malfunctioning:

- Places subject to rain/moisture, or places subject to high humidity.
- Places subject to direct sunlight, or places subject to extremely hot or cold temperatures to ensure that it is used within the specified operating range.
- Places where inflammable gas may be present or in the vicinity of highly inflammable/volatile chemicals or items that can easily catch fire
- On unstable or sloped surfaces. The machine may topple or cause unforeseen accidents.
- Vicinity of fire exits, fire extinguishers etc that may block/prevent safety measures

Important Note

All repairs must be done to original manufacturer specifications. Failure to do so will void all warranties and operator assumes all risks.

Note: The contents of this manual may be updated without notice.

1. SPECIFICATIONS

Rated power supply:	AC220-240V 50/60Hz
Power consumption:	Min power consumption : 25W Max power consumption : 400W
Dimensions:	Φ59×H69.2 (inch)
Weight:	Approximately 242.5 (lb)





! NOTICE: After turning off the game, please wait at least **1 minute** before restarting again.

Note: Game parameters are subject to change without notice.

2. PACKAGE CONTENTS

Open the package and make sure all the items are included:

- 1 x Body Assembly
- Following accessories

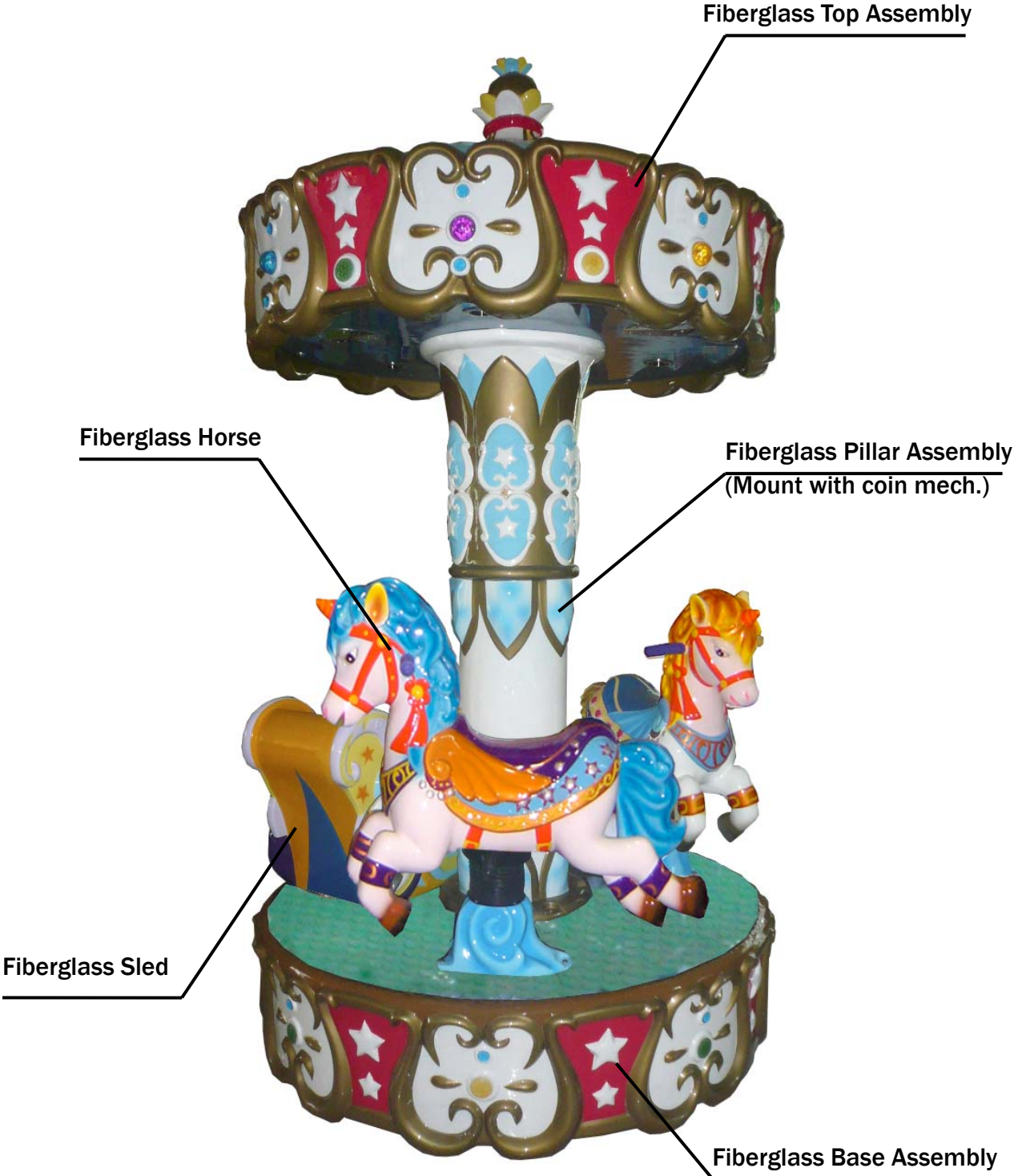
No.	Part number	Component	Specification	Illustration	Qty.
1	A102-701-000	Operation Manual	ENGLISH		1
2	A102-425-000	Key	C582		2
3	A102-420-000	Fuse	φ5-20mm 10A/250V		2

If any items are found to be missing, please contact your sales representative for help immediately.

Warranty: Universal Space provides 90 days warranty for all electrical and mechanical components, when used under normal operating conditions. Any modification or abuse of these items immediately voids the warranty. Graphic and consumable items are exempt from any warranty.

NOTE: Part models are subject to change without notice.

3. PART NAMES



4. SET UP & INSTALLATION

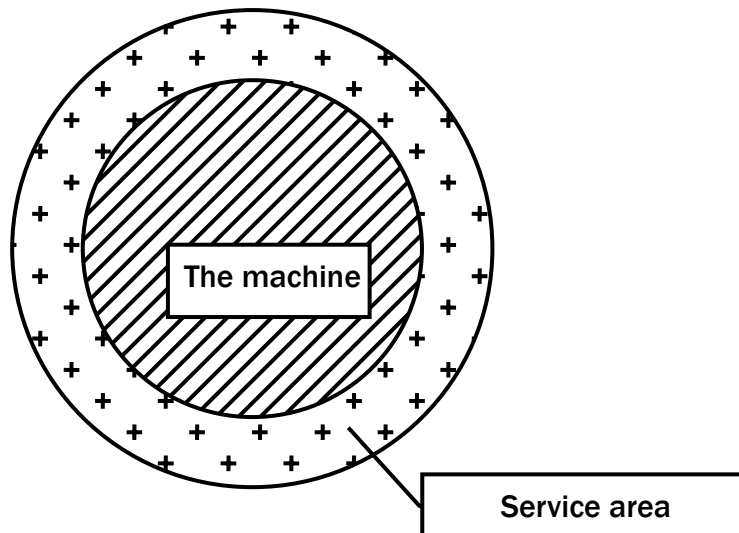
 **This product is an indoor game machine. Do not install outdoors.**

- Refer to IMPORTANT SAFETY INSTRUCTIONS (Pg. 2) for places to avoid
- Place the unit on a dry level surface
- Ventilation openings in the back of the unit must not be obstructed by objects or by wall.

4.1 Play Zone

This machine requires space for playing and for maintenance as shown below. Leave space around the game upon installation:

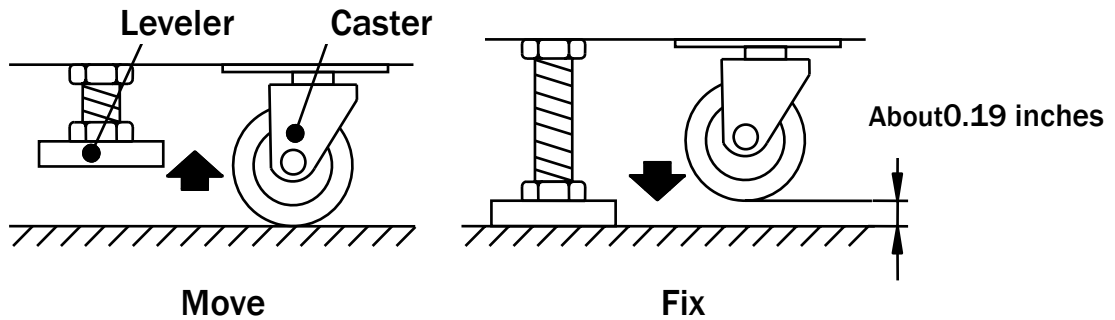
Service area: 19 inches



4.2. Level Adjustment

Install this machine on a flat surface. Adjust levers to lift casters off the ground to level the game. If the game is installed on an unsuitable floor, it could cause game malfunction.

To secure the game, adjust the Leveler down until it touches the floor, lifting the casters off the ground by 5mm. Repeat the same for all levelers.

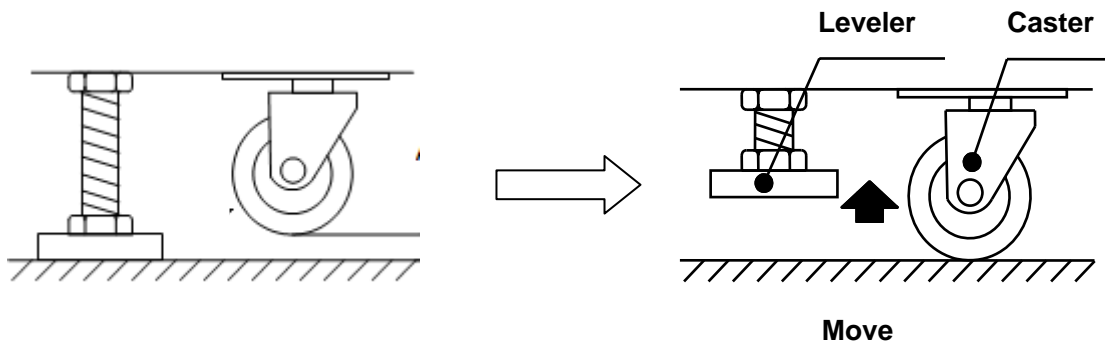


NOTICE

Make sure the machine is level with the ground and all the adjustable legs should stick to the floor closely.

4.3 Transporting the Game

If you need to move the game, adjust the levelers back to an “up” position so the casters touch the ground.



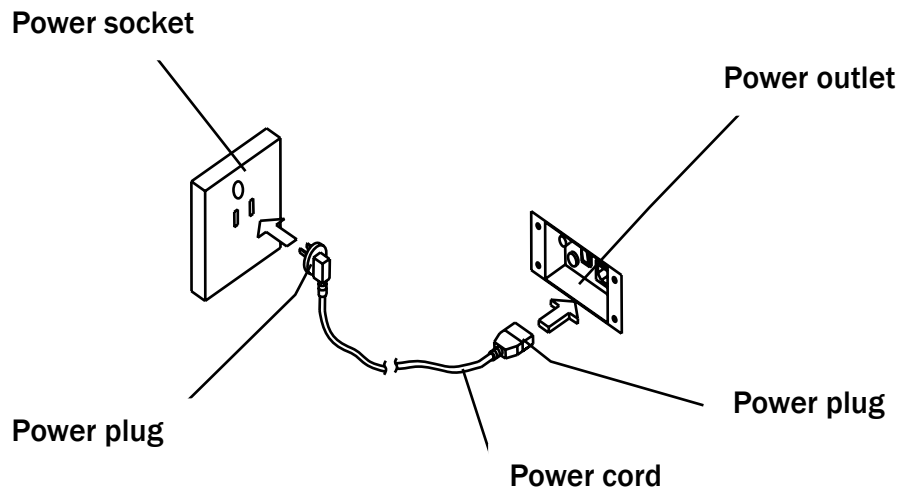
NOTICE

- Be careful not to damage the machine during transport.
- The machine should be handled with care when bringing it down from a higher level.
- Always unplug the game before moving.
- Keep the machine in upright position during transport.
- For longer distance transport, package the game properly to prevent damages.
- Divided it into 6 parts while transporting: 3 characters, the top part, the pillar, the machine base.

4.4 Connecting Power

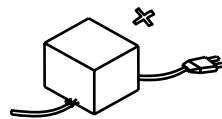
! WARNING: Check the voltage rating before you connect the equipment to an electrical outlet to ensure that the required voltage and frequency match the available power source. Please refer the label of the machine.

- Do not plug the equipment power cables into an electrical outlet if the power cable is damaged.
- Avoid putting many loads on one electrical outlet as it could generate heat and fire resulting from overload.
- Connect the grounding conductor to the earth terminal (GND):

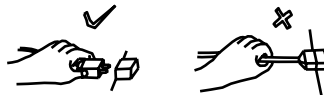


! WARNING

Ensure no heavy objects rest on the power cord. Check to make sure the game cabinet does not sit on the power cord as this could damage the cord and become hazardous.



To disconnect the game, grip the plug and pull it from the wall outlet. Never pull by the cord.



To prevent electric shock, do not touch the power plug when hand is wet.

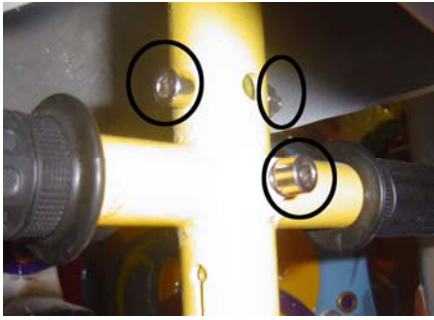


Ensure that nothing rests on the power cord and that it is not located where it can be stepped on or tripped over.



4.5 Parts Disassembly

4.5.1. Dismantle the Horses



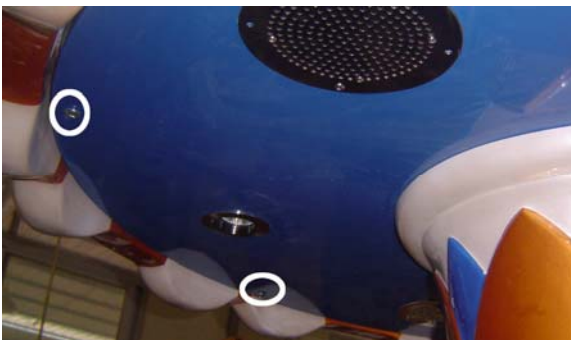
- Remove the bolts from the supported bar. The protected skirt and the wave fiberglass.

4.5.2. Dismantle the Seat:

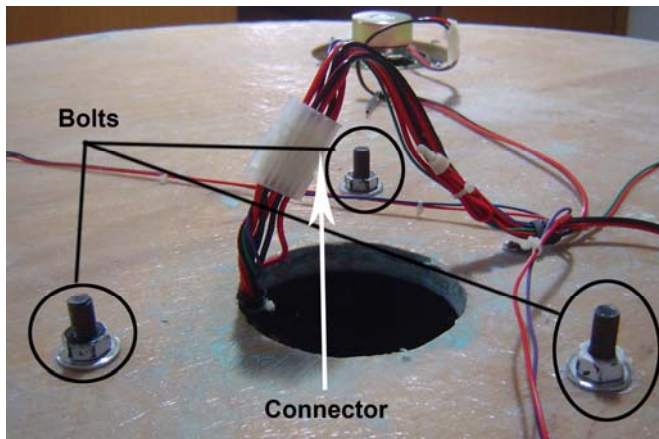


- Remove 4 bolts inside the seat.

4.5.3. Dismantle the Top

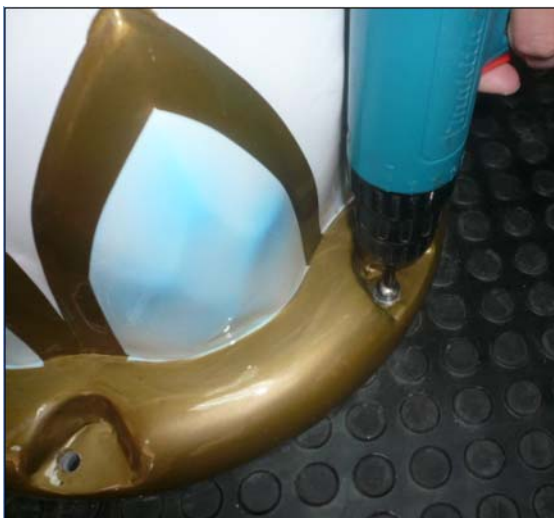


- Remove screws under the top.



- Use a Hexagon key to loose the three bolts which on the upper side of the signboard. Then take the top out.

4.5.4. Dismantle the Pillar



- Remove the 6 bolts which on the bottom of the pillar.



- Unplug the connector at the bottom of the pillar. Then take it out.

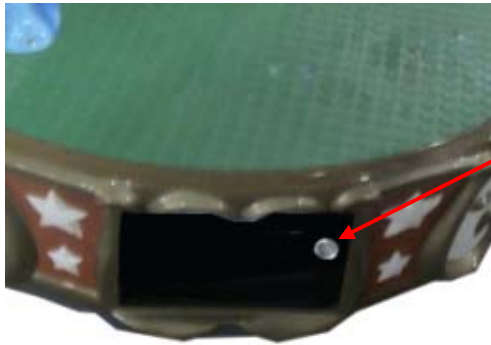
5. HOW TO PLAY

1. Insert coin. Ride starts. Be sure to fasten the seat belt when riding in the sled.
2. The ride will go around and play with music.
3. Time is up and ride stops.



6. GAME OPTIONS

6.1 Electric Control Box



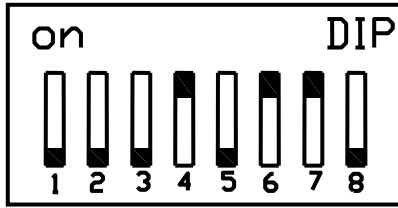
Open the electric control box on the side of the bottom base.



1. Volume Adjustment: Turn it to increase or decrease the volume,
2. DIP SW: Setting it to setting the parameters of the game (The detail at below).
3. Coin counter: Record the inserting coin(s) of the game.
4. Power SW: Turn it ON to power on the machine, contrarily turn OFF the machine.
5. Fuse: Use to protect all the electronic components of the game.

NOTE: Be sure to turn off the power before setting this SW.

6.2 DIP Adjust (Default Setting)



Notice

The above are subject to change without notice.

6.3 Parameter Setting

Default settings are in capital letters.

(1) Coin per Play

Item	Options	SW11	SW12	Note
Coin per Play	4	on	on	Insert 4 coins play 1game
	3	off	on	Insert 3 coins play 1game
	2	on	off	Insert 2 coins play 1game
	1	OFF	OFF	Insert 1 coin play 1game

(2) Time per Game

Item	Options	SW13	SW14	SW15	Note
Time per Game	300	on	on	on	300 seconds/game
	240	off	on	on	240 seconds/game
	180	on	off	on	180 seconds/game
	120	off	off	on	120 seconds/game
	90	on	on	off	90 seconds/game
	75	off	on	off	75 seconds/game
	60	on	off	off	60 seconds/game
	45	OFF	OFF	OFF	45 seconds/game

(3) Background Music

Item	Options	SW16	SW17	Note
Background Music	Alternate(times)	ON	ON	Alternate per time between two music
	Alternate(day)	off	on	Alternate per day between two music
	Music 1	on	off	Play Music 1 only
	Music 2	off	off	Play Music 2 only

(4) Game mode

Item	Options	SW18	Note
Game mode	Testing	on	Setting it to enter the test mode
	Working	OFF	Setting it to enter the working mode

7. MAINTENANCE, INSPECTION

7.1 Safety Check

Check the points listed before operating the machine. These checks are necessary for safe machine operation:

1. Try to run the game before operation each day.
2. Conduct monthly routine checks of game components ensure good working condition
3. Check the machine regularly for dust and clean when necessary.
4. Check whether there is enough grease in the gear box very month, if not, add the grease of 14# or add new grease after cleaned.
5. Add grease to the active parts, such as the rocking axle and gearing.

Note: Parts and components require preventative maintenance to be kept running smoothly

7.2 Handling Precautions

When installing or inspecting the machine, be very careful of the following points and pay attention to ensure that the player can enjoy the game safely.

Non-compliance with the following points or inappropriate handling running counter to the cautionary matters herein stated can cause personal injury or damage to the machine

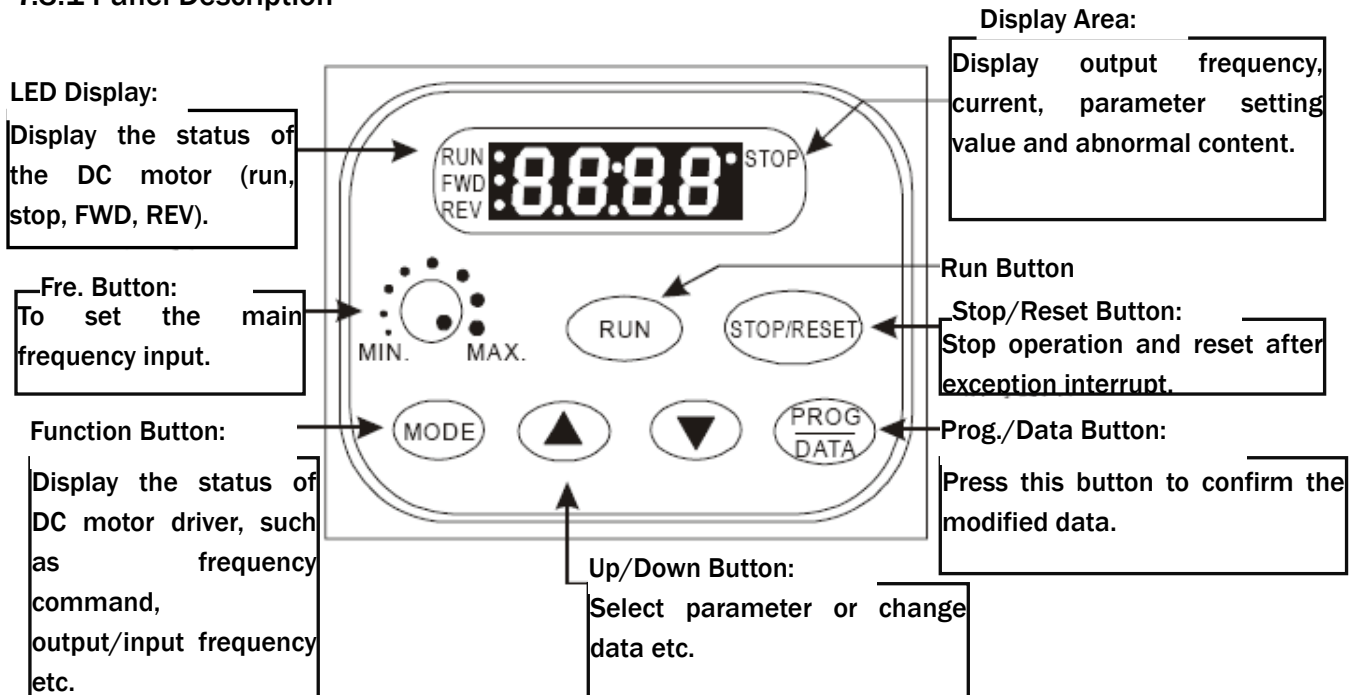


WARNING

- Before servicing the machine, be sure to turn power off. Servicing without turning the power off can cause electric shock or short circuit.
- To avoid electric shock or short circuit, do not plug then unplug the power quickly
- Do not expose power cords and earth wires, these are susceptible to damage.
- Damaged cords and wires can cause electric shock or short circuit and should be replaced immediately.
- When or after installing the product, avoid pulling the power cord to prevent unnecessary wear and tear. Use the power button to disconnect power.
- In case the power cord is damaged, ask for replacement through where the product was purchased from or replace locally. Continued usage of damaged cord can cause fire, electric shock or leakage.
- Perform grounding appropriately. Inappropriate grounding can cause electric shock.
- Use fuses that meet specified rating. Fuses exceeding can cause an electric shock.
- Should a problem occur, turn off the power immediately and stop operating the machine. Unplug the power cord of the service outlet. Operating the machine without correcting the problem may cause a fire or injuries.
- Insert the power plug securely into the outlet. Poor contact may cause overheating, resulting in fire or burns.
- To ensure the warning labels attached on the machine are visible and legible, install the machine in a well-lit location, and keep the labels clean at all times. Make sure the labels are not hidden behind other game machines.

7.3 Transducer Setting

7.3.1 Panel Description



7.3.2 Function Description

Item	Description	Item	Description
Frd	Rotation direction of the DC motor driver is forward.	Err	Value not accepted or value out of range.
rEu	Rotation direction of the DC motor driver is reversed.	F60.0	Display the current setting frequency.
C999	Display count	H60.0	Display the actual output frequency to the motor.
0-	Display option group name	u600.	Display the physical value customer defined.(U=Fx00-05).
0-00	Display the sub item of option group.	A 5.0	Display transducer output side U, V and W current
d 0	Display parameter value.	1=5.0	Display transducer to auto execute program currently.
End	Display about 1s means data has been accepted and saved.	U310	Display DC-BUS voltage.
E220	Display output voltage.		

**FOR ADDITIONAL INFORMATION
PERTAINING TO THE INVERTOR PLEASE CONTACT CEC TECHNICAL SUPPORT**

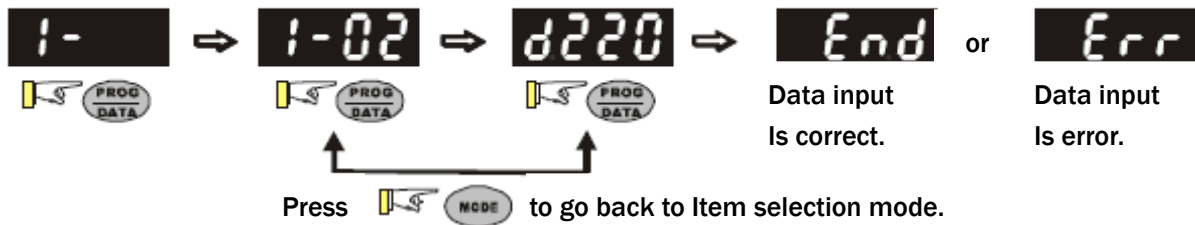
7.3.4 Operation Steps

Item selection



Note: In this mode, press  to enter the parameter setting.

Parameter Setting



Data modification

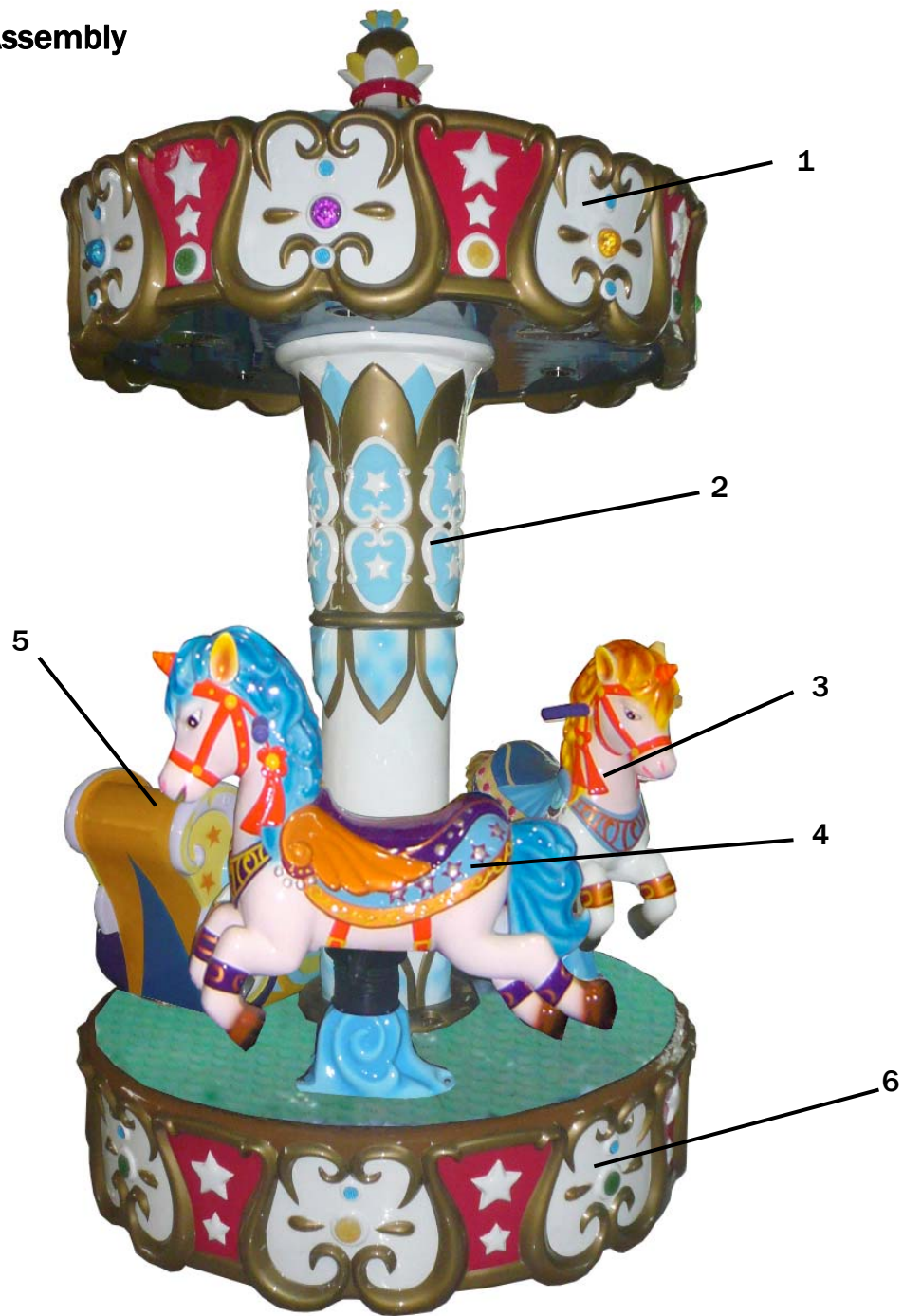


Direction Setting



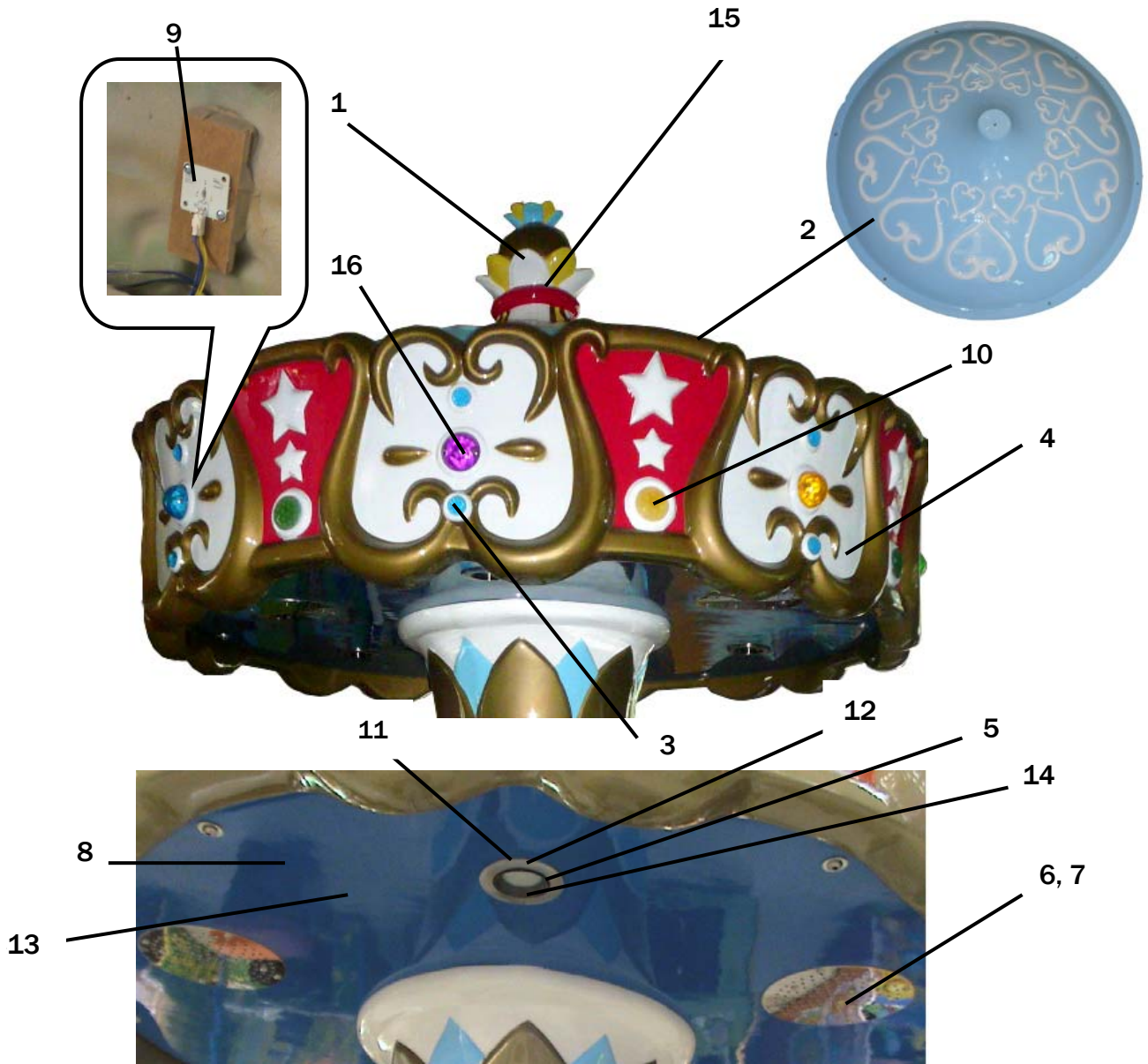
8. Overall construction

8.1 Main Assembly



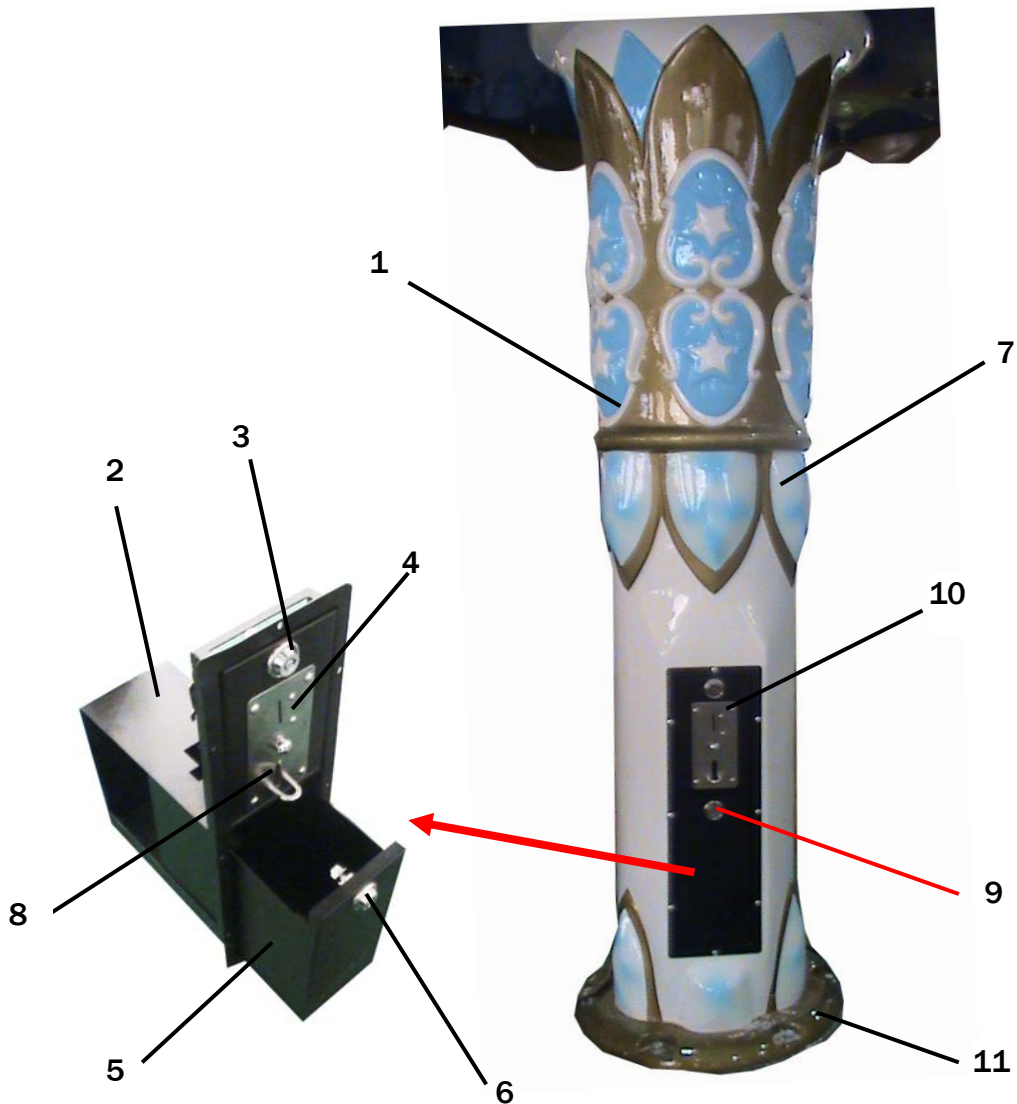
NO.	Part No.	Name	QTY
1	A102-001-000	Fiberglass top assembly	1
2	A102-002-000	Fiberglass pillar assembly	1
3	A102-003-000	Fiberglass horse assembly-yellow	1
4	A102-004-000	Fiberglass horse assembly-blue	1
5	A102-005-000	Fiberglass sled assembly	1
6	A102-006-000	Fiberglass base assembly	1

8.2 Fiberglass Top Assembly



NO.	Part No.	Name	QTY
1	A102-601-000	Peak fiberglass	1
2	A102-602-000	Top dome fiberglass	1
3	A102-402-000	Diamond - small	12
4	A102-603-000	Top fiberglass	1
5	A102-426-000	DC12V LED light	3
6	A102-101-000	Speaker grill	3
7	A102-403-000	Speaker	3
8	A102-501-000	Top plate - blue	1
9	A102-801-000	Top light board	8
10	A102-404-000	Diamond - bigger	8
11	A102-427-000	Spot light socket	3
12	A102-428-000	Spot light block	3
13	A102-203-000	Top wood plate	1
14	A102-207-000	DC12V LED lamp cup	4
15	A102-204-000	Decoration embedded part	1
16	A102-208-000	Diamond head lampshade	8

8.3 Fiberglass Pillar Assembly



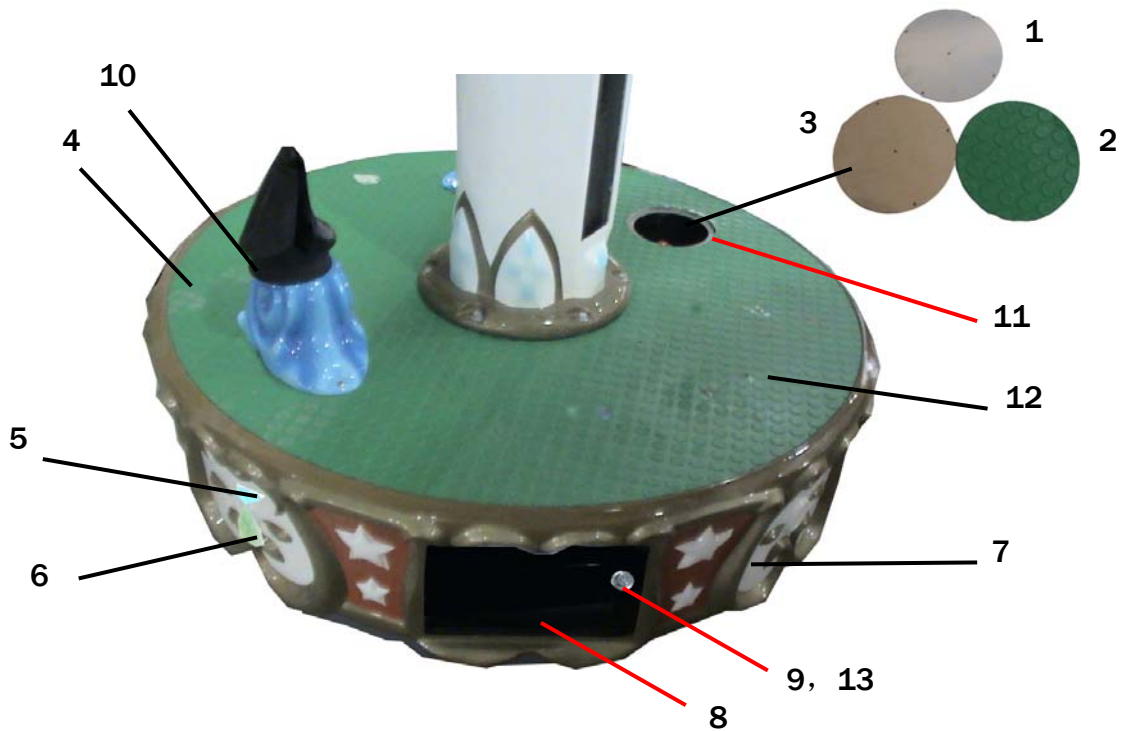
NO.	Part No.	Name	QTY
1	A102-604-000	Pillar fiberglass	1
2	A102-102-000	Coin mech. frame	1
3	A102-405-000	CEC lock - coin mech.	1
4	A102-406-000	CEC coin mech.	1
5	A102-103-000	Coin box	1
6	A102-407-000	CEC lock - coin box	1
7	A102-201-000	Pole embedded part	1
8	A102-250-000	Coin Mech. SW	2
9	A102-252-000	Coin box lock piece	1
10	A102-253-000	Coin lock piece	1
11	A102-256-000	Pillars under cover	1
12	A102-259-000	12V LED bulb	1
13	A102-260-000	LED bulb Socket	1

8.4 Fiberglass Character Assembly



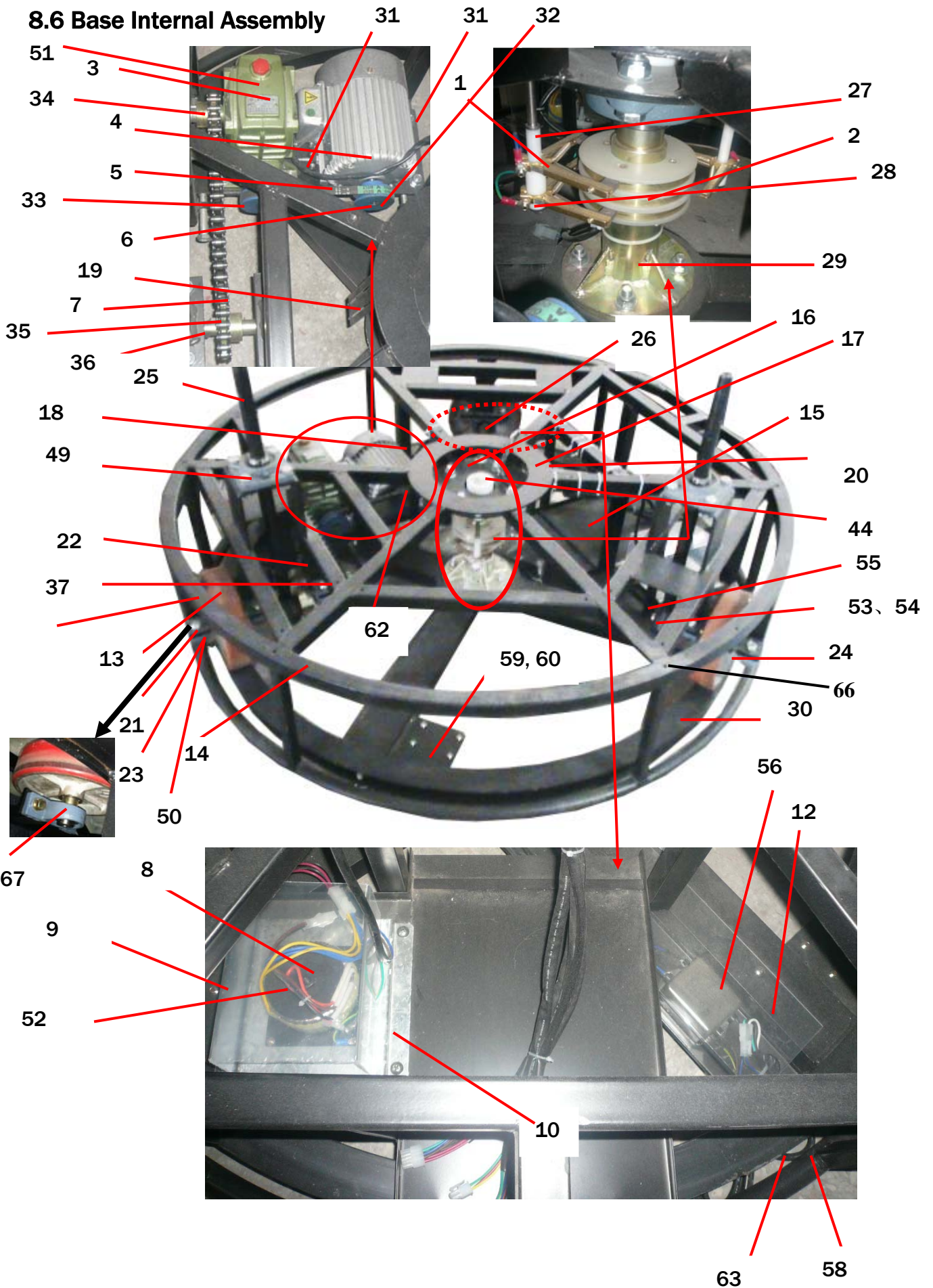
NO.	Part No.	Name	QTY
1	A102-605-000	Horse handle bar	4
2	A102-606-000	Fiberglass horse - yellow	1
3	A102-607-000	Protected cover	2
4	A102-608-000	Protected skirt	2
5	A102-609-000	fiberglass wave	2
6	A102-104-000	Horse bracket base	2
7	A102-610-000	Foot step rubber	4
8	A102-105-000	Horse supported pole	2
9	A102-611-000	Fiberglass horse - blue	1
10	A102-106-000	Seat belt bracket	2
11	A102-408-000	Sled seat belt	1
12	A102-612-000	Sled cushion	1
13	A102-613-000	Sled rubber pad	1
14	A102-614-000	Sled handle bar	1
15	A102-615-000	Fiberglass sled	1
16	A102-114-000	Lock up bolt	2
17	A102-206-000	Seat belts embedment parts	2
18	A102-251-000	Magic Tape	1

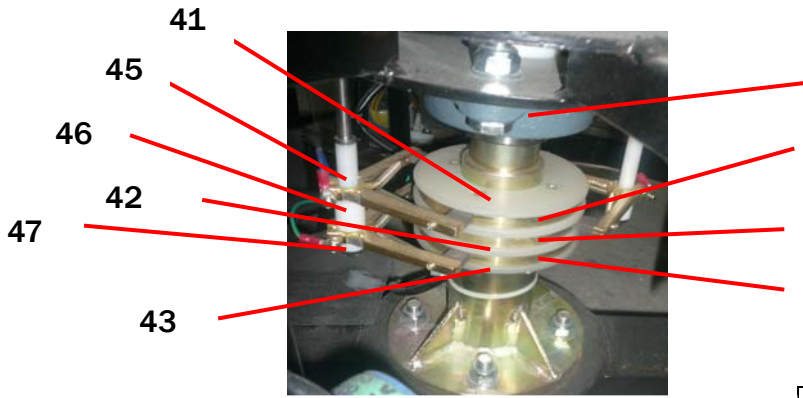
8.5 Fiberglass Base Assembly



NO.	Part No.	Name	QTY
1	A102-107-000	Base hole piece - metal	1
2	A102-620-000	Base hole piece - rubber	1
3	A102-502-000	Base hole piece - wood	1
4	A102-616-000	Base rubber pad	1
5	A102-409-000	Base diamond - small	8
6	A102-410-000	Base diamond - big	8
7	A102-617-000	Fiberglass base	1
8	A102-108-000	Electric box door	1
9	A102-411-000	CEC lock	1
10	A102-115-000	nuts for horse pole	2
11	A102-434-000	Oil inlet embedment parts	1
12	A102-202-000	Transformer top cover	10
13	A102-254-000	Maintenance lock piece	1

8.6 Base Internal Assembly

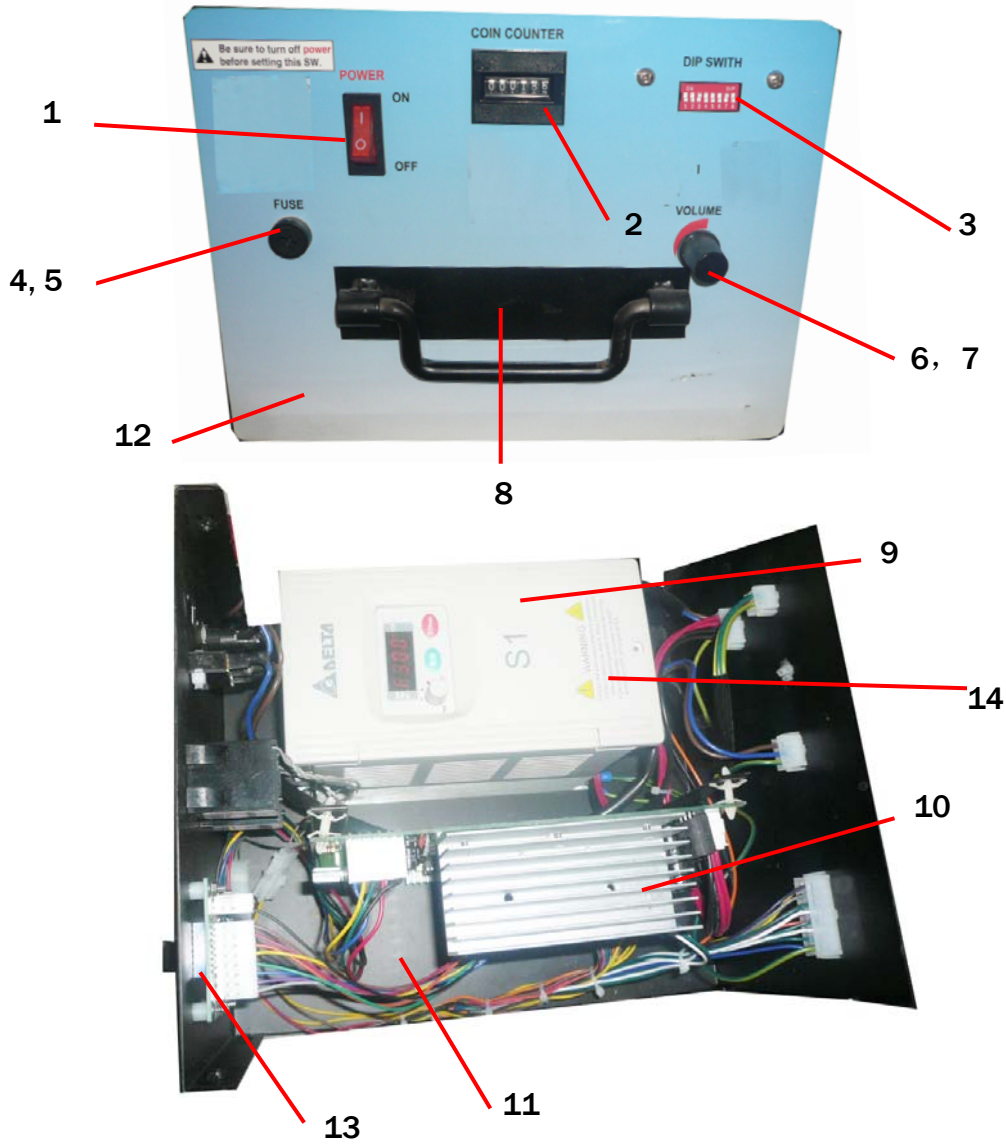




NO.	Part No.	Name	QTY
1	A102-008-000	Carbon brush assembly	3
2	A102-009-000	Conducting ring assembly	1
3	A102-412-000	Gear box	1
4	A102-413-000	Motor	1
5	A102-414-000	Belt	1
6	A102-415-000	Pulley	2
7	A102-109-000	Chain	1
8	A102-416-000	Transformer	1
9	A102-618-000	Transformer plastic cover	1
10	A102-110-000	Transformer bracket	1
12	A102-619-000	Ballast plastic cover	1
13	A102-424-000	Base wheel	3
14	A102-111-000	Base bracket frame	1
15	A102-501-000	Electrical box mounted plate	2
16	A102-502-000	Bottom connection flange	1
17	A102-503-000	Top connection flange	1
18	A102-504-000	Motor mounted plate	2
19	A102-505-000	Fixed plate1	1
20	A102-506-000	Fixed plate2	1
21	A102-507-000	Wheel fixed plate1	7
22	A102-508-000	Wheel fixed plater2	1
23	A102-509-000	Crank 1	1
24	A102-510-000	Crank 2	1
25	A102-511-000	Connected rod	2
26	A102-512-000	Shaft	1
27	A102-513-000	Brush screw assembly	2
28	A102-514-000	Insulator	2
29	A102-515-000	Middle shaft	1
30	A102-516-000	Base	1
31	A102-517-000	Motor mounted plate	1
32	A102-518-000	Pulley	1
33	A102-317-000	Gear box pulley	1
34	A102-300-000	Gear box chain wheel	1
35	A102-301-000	Driven chain wheel	1
36	A102-302-000	Driven chain wheel shaft	1
37	A102-303-000	Crank arm	1

NO.	Part No.	Name	QTY
38	A102-304-000	Brass ring01	1
39	A102-305-000	Brass ring02	1
40	A102-306-000	Brass ring03	1
41	A102-307-000	Conductive flange	1
42	A102-308-000	Conductive ring pad	2
43	A102-309-000	Conductive bottom cover	1
44	A102-310-000	Pressing sleeve	1
45	A102-311-000	Spacer ring1	1
46	A102-312-000	Spacer ring2	1
47	A102-313-000	Spacer ring3	1
48	A102-314-000	Bearing	1
49	A102-315-000	Bearing	2
50	A102-316-000	Bearing	8
52	A102-318-000	Transformer top cover	1
53	A102-319-000	Deep groove ball bearing	1
54	A102-320-000	Cir clip	1
55	A102-321-000	Cir clip	1
56	A102-322-000	Filter	1
57	A102-323-000	Un-certified 110V nameplate	1
58	A102-433-000	Cable tighten head	1
59	A102-429-000	Leveler	4
60	A102-430-000	2.5" caster	4
61	A102-431-000	Belt adjustment bracket	2
62	A102-432-000	Motor fixed plate mounted block	2
63	A102-435-000	CEC power cord	1
64	A102-436-000	Information label 1	1
65	A102-437-000	Information label 2	1
66	A102-200-000	Threaded sleeve	12
67	A102-437-000	Pillow block bearings	8

8.7 Elec0tric Box Assembly



NO.	Part No.	Name	QTY
1	A102-418-000	Ship type power switch	1
2	A102-419-000	Coin counter	1
3	A102-802-000	DIP SW PCB	1
4	A102-420-000	Fuse	1
5	A102-421-000	Fuse holder	1
6	A102-422-000	Volume Knob	1
7	A102-209-000	POT	1
8	A102-112-000	Electric box handle	1
9	A102-423-000	Inverter	1
10	A102-803-000	Main board	1
11	A102-113-000	Electric box	1
12	A102-703-000	Electric box decal	1
13	A102-116-000	DIP SW setting board	1
14	A102-205-000	High pressure warning decal	2