Angel Carousel

Operation Manual

For Parts and Service, call Amusements Worldwide
www.amusementsworldwide.com
Tel: 214-750-9202

Serial Number:

Date of installation:
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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated power supply</td>
<td>AC220-240V 50/60Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Min power consumption : 25W</td>
</tr>
<tr>
<td></td>
<td>Max power consumption : 400W</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Φ59×H69.2 (inch)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approximately 242.5 (lb)</td>
</tr>
</tbody>
</table>

⚠️ 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

<table>
<thead>
<tr>
<th>No.</th>
<th>Part number</th>
<th>Component</th>
<th>Specification</th>
<th>Illustration</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A102-701-000</td>
<td>Operation Manual</td>
<td>ENGLISH</td>
<td><img src="image" alt="Operation Manual" /></td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>A102-425-000</td>
<td>Key</td>
<td>C582</td>
<td><img src="image" alt="Key" /></td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>A102-420-000</td>
<td>Fuse</td>
<td>φ5-20mm 10A/250V</td>
<td><img src="image" alt="Fuse" /></td>
<td>2</td>
</tr>
</tbody>
</table>

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

Fiberglass Top Assembly

Fiberglass Horse

Fiberglass Pillar Assembly
(Mount with coin mech.)

Fiberglass Sled

Fiberglass Base Assembly
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.

![Diagram of Leveler and Caster](Image)

**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.

4.3 Transporting the Game

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

![Diagram of Leveler and Caster](Image)
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):

![Power socket](image)

![Power outlet](image)

![Power plug](image)

![Power cord](image)

**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.

![Power plug](image)

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

![Power plug](image)

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

![Power plug](image)

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)

![DIP Switch Diagram]

### Notice

The above are subject to change without notice.

6.3 Parameter Setting

Default settings are in capital letters.

1. **Coin per Play**

<table>
<thead>
<tr>
<th>Item</th>
<th>Options</th>
<th>SW11</th>
<th>SW12</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coin per Play</td>
<td>4</td>
<td>on</td>
<td>on</td>
<td>Insert 4 coins play 1 game</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>off</td>
<td>on</td>
<td>Insert 3 coins play 1 game</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>on</td>
<td>off</td>
<td>Insert 2 coins play 1 game</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>OFF</td>
<td>OFF</td>
<td>Insert 1 coin play 1 game</td>
</tr>
</tbody>
</table>

2. **Time per Game**

<table>
<thead>
<tr>
<th>Item</th>
<th>Options</th>
<th>SW13</th>
<th>SW14</th>
<th>SW15</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time per Game</td>
<td>300</td>
<td>on</td>
<td>on</td>
<td>on</td>
<td>300 seconds/game</td>
</tr>
<tr>
<td></td>
<td>240</td>
<td>off</td>
<td>on</td>
<td>on</td>
<td>240 seconds/game</td>
</tr>
<tr>
<td></td>
<td>180</td>
<td>on</td>
<td>off</td>
<td>on</td>
<td>180 seconds/game</td>
</tr>
<tr>
<td></td>
<td>120</td>
<td>off</td>
<td>off</td>
<td>on</td>
<td>120 seconds/game</td>
</tr>
<tr>
<td></td>
<td>90</td>
<td>on</td>
<td>on</td>
<td>off</td>
<td>90 seconds/game</td>
</tr>
<tr>
<td></td>
<td>75</td>
<td>off</td>
<td>on</td>
<td>off</td>
<td>75 seconds/game</td>
</tr>
<tr>
<td></td>
<td>60</td>
<td>on</td>
<td>off</td>
<td>off</td>
<td>60 seconds/game</td>
</tr>
<tr>
<td></td>
<td>45</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
<td>45 seconds/game</td>
</tr>
</tbody>
</table>
### (3) Background Music

<table>
<thead>
<tr>
<th>Item</th>
<th>Options</th>
<th>SW16</th>
<th>SW17</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Background</td>
<td>Alternate(times)</td>
<td>ON</td>
<td>ON</td>
<td>Alternate per time between two music</td>
</tr>
<tr>
<td></td>
<td>Alternate(day)</td>
<td>off</td>
<td>on</td>
<td>Alternate per day between two music</td>
</tr>
<tr>
<td>Music</td>
<td>Music 1</td>
<td>on</td>
<td>off</td>
<td>Play Music 1 only</td>
</tr>
<tr>
<td></td>
<td>Music 2</td>
<td>off</td>
<td>off</td>
<td>Play Music 2 only</td>
</tr>
</tbody>
</table>

### (4) Game mode

<table>
<thead>
<tr>
<th>Item</th>
<th>Options</th>
<th>SW18</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Game mode</td>
<td>Testing</td>
<td>on</td>
<td>Setting it to enter the test mode</td>
</tr>
<tr>
<td></td>
<td>Working</td>
<td>OFF</td>
<td>Setting it to enter the working mode</td>
</tr>
</tbody>
</table>
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

LED Display: Display the status of the DC motor (run, stop, FWD, REV).

Fre. Button: To set the main frequency input.

Function Button: Display the status of DC motor driver, such as frequency command, output/input frequency.

Display Area: Display output frequency, current, parameter setting value and abnormal content.

Run Button
Stop/Reset Button: Stop operation and reset after exception interrupt.

Prog./Data Button: Press this button to confirm the modified data.

Up/Down Button: Select parameter or change data etc.

7.3.2 Function Description

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

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**

<table>
<thead>
<tr>
<th>1-</th>
<th>1-02</th>
<th>d220</th>
<th>End</th>
<th>or</th>
<th>Err</th>
</tr>
</thead>
</table>

Data input is correct. Data input is error.

Press to go back to Item selection mode.

**Data modification**

**Direction Setting**
# 8. Overall construction

## 8.1 Main Assembly

<table>
<thead>
<tr>
<th>NO.</th>
<th>Part No.</th>
<th>Name</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A102-001-000</td>
<td>Fiberglass top assembly</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>A102-002-000</td>
<td>Fiberglass pillar assembly</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>A102-003-000</td>
<td>Fiberglass horse assembly-yellow</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>A102-004-000</td>
<td>Fiberglass horse assembly-blue</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>A102-005-000</td>
<td>Fiberglass sled assembly</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>A102-006-000</td>
<td>Fiberglass base assembly</td>
<td>1</td>
</tr>
</tbody>
</table>
8.2 Fiberglass Top Assembly
<table>
<thead>
<tr>
<th>NO.</th>
<th>Part No.</th>
<th>Name</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A102-601-000</td>
<td>Peak fiberglass</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>A102-602-000</td>
<td>Top dome fiberglass</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>A102-402-000</td>
<td>Diamond – small</td>
<td>12</td>
</tr>
<tr>
<td>4</td>
<td>A102-603-000</td>
<td>Top fiberglass</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>A102-426-000</td>
<td>DC12V LED light</td>
<td>3</td>
</tr>
<tr>
<td>6</td>
<td>A102-101-000</td>
<td>Speaker grill</td>
<td>3</td>
</tr>
<tr>
<td>7</td>
<td>A102-403-000</td>
<td>Speaker</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>A102-501-000</td>
<td>Top plate - blue</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>A102-801-000</td>
<td>Top light board</td>
<td>8</td>
</tr>
<tr>
<td>10</td>
<td>A102-404-000</td>
<td>Diamond – bigger</td>
<td>8</td>
</tr>
<tr>
<td>11</td>
<td>A102-427-000</td>
<td>Spot light socket</td>
<td>3</td>
</tr>
<tr>
<td>12</td>
<td>A102-428-000</td>
<td>Spot light block</td>
<td>3</td>
</tr>
<tr>
<td>13</td>
<td>A102-203-000</td>
<td>Top wood plate</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>A102-207-000</td>
<td>DC12V LED lamp cup</td>
<td>4</td>
</tr>
<tr>
<td>15</td>
<td>A102-204-000</td>
<td>Decoration embedded part</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>A102-208-000</td>
<td>Diamond head lampshade</td>
<td>8</td>
</tr>
</tbody>
</table>
### 8.3 Fiberglass Pillar Assembly

<table>
<thead>
<tr>
<th>NO.</th>
<th>Part No.</th>
<th>Name</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A102-604-000</td>
<td>Pillar fiberglass</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>A102-102-000</td>
<td>Coin mech. frame</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>A102-405-000</td>
<td>CEC lock – coin mech.</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>A102-406-000</td>
<td>CEC coin mech.</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>A102-103-000</td>
<td>Coin box</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>A102-407-000</td>
<td>CEC lock – coin box</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>A102-201-000</td>
<td>Pole embedded part</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>A102-250-000</td>
<td>Coin Mech. SW</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>A102-252-000</td>
<td>Coin box lock piece</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>A102-253-000</td>
<td>Coin lock piece</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>A102-256-000</td>
<td>Pillars under cover</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>A102-259-000</td>
<td>12V LED bulb</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>A102-260-000</td>
<td>LED bulb Socket</td>
<td>1</td>
</tr>
</tbody>
</table>
8.4 Fiberglass Character Assembly
<table>
<thead>
<tr>
<th>NO.</th>
<th>Part No.</th>
<th>Name</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A102-605-000</td>
<td>Horse handle bar</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>A102-606-000</td>
<td>Fiberglass horse – yellow</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>A102-607-000</td>
<td>Protected cover</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>A102-608-000</td>
<td>Protected skirt</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>A102-609-000</td>
<td>fiberglass wave</td>
<td>2</td>
</tr>
<tr>
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8.5 Fiberglass Base Assembly

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8.6 Base Internal Assembly

31
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16
17

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20

44

55

53, 54

24

30

66

56

12

63

58

59, 60

62
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8.7 Electric Box Assembly

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