

in the groove²

Service Manual



www.roxorgames.com
www.inthegroove.com



- ▶ Read the manual before operating this machine.
- ▶ Keep this manual for your reference.

PRECAUTIONS FOR USE

The following information describes safety precautions for installing your ITG dedicated cabinet. They must be strictly followed to protect those who install, use, or maintain this product as well as to prevent other people's injuries and property damages.

Please read the following information

*The following suggestions show the degree of danger and damage caused.

WARNING

Indicates a situation where disregarding suggestions could result in death or serious injury.

CAUTION

Indicates a situation where disregarding suggestions could result in injury or product damage.

*The following graphic suggestions describe the types of precautions to be followed.



Indicates extreme caution should be used.



Indicates a situation which should be avoided.



Indicates a necessary procedure or process.

*The following graphic suggestions describe the types of precautions to be followed.

The following instruction manual outlines procedures requires a qualified technician or industry specialist.

- In such case that procedures are not followed, electric shock, product damage, or a serious accident may result.
- Replacing the machine parts, inspecting and maintaining the machine, and troubleshooting must be assigned only to a qualified in-shop technician or industry specialist.

A qualified in-shop technician/industry specialist is defined as follows:

Qualified In-Shop Technician

- A qualified in-shop technician must have experience in maintaining arcade machines. Under the supervision of an arcade owner or manager, he or she routinely assembles, installs, inspects and maintains arcade machines, or replaces their component units and consumable parts, in the arcade workshop and/or location.

Description of Job Duties, as performed by a Qualified Technician

- Assembling, installing, inspecting and maintaining arcade machines and replacing their component units and consumable parts.

Industry Specialist

- An industry specialist must be engaged in designing, manufacturing, inspecting and servicing arcade machines.
- He or she may have an education in electrical, electronic, and mechanical engineering, and routinely maintain and repair arcade machines.

Description of Job Duties, as performed by an Industry Specialist

- Assembling and installing amusement machines and repairing or adjusting their electrical, electronic, and mechanical component parts.

Setting Up

⚠ WARNING

Please consult a technician before setting up, moving or transporting this product.

- This product should not be installed, moved, or transported by any one other than an industry specialist.
- Doing so could result in injury or product damage
- When installing this product, place the 4 legs evenly on the floor and make sure that the product is positioned in a stable, horizontal position. Unstable installation may result in injury or accident.
- When installing this product, take care not to apply undue force to openings and other movable parts. Otherwise, injury may result or the product may be damaged.

This product is an indoor game machine. Never set the game machine up outside.

- Setting this product up outside could result in accidents or equipment failure.

Do not set the game machine up near emergency exits.

- Doing so could block exits during an emergency and could result in death or serious injury.

Do not set the game machine:

1. In a place exposed to rain or moisture.
 2. In a place exposed to direct sunlight
 3. In a place exposed to direct heat from air-conditioning and heating equipment, etc.
 4. Near hazardous flammable substance such as thinner and kerosene.
- Otherwise an accident or malfunction may occur.

Do not place containers holding chemicals or water on or near the game machine.

- Electrical shock or damage could be caused by water or foreign material inside the machine.

Do not place objects near air vents.

- Doing so could cause the internal temperature to rise excessively, resulting in fire or equipment failure.

Do not bend the power cord by force or place heavy objects on it.

- Doing so could result in electrical shock or fire.

Never plug or unplug the power cord with wet hands.

- Doing so could result in electrical shock or fire.

Never unplug the game machine by pulling the power cord.

- Doing so could damage the cord, result in electrical shock or fire.

⚠ CAUTION

Be sure to only use wiring within the specified voltage range.

- Failure to do so could result in fire or equipment failure.

Be sure to use the attached power cord.

- Otherwise a fire or equipment failure may result.

Never plug more than one cord at a time in the electrical receptacle.

- Doing so could result in fire or electrical shock.

Do not lay the power cord where people walk.

- This may cause injury, or may cause damage to the power cord.

Be sure to ground this product.

- Failure to do so may cause electrical shock or equipment failure.

Do not apply undue force when moving the machine.

- Doing so may result in an accident or may cause damage to the product.

A clearance space of 100mm (3.94 in.) or more should be created between the game machine and walls.

- Failure to do so may prevent machine from receiving proper ventilation, resulting in equipment failure.

Do not change the DIP switch setting of this product to anything other than the factory setting..

- Otherwise, the game will not function properly.

OPERATION

WARNING

If the machine exhibits any abnormal behavior, such as emitting smoke, fire, unusual noises, etc., immediately turn OFF the main power switch and unplug the power cord from the receptacle.



- Use the machine in abnormal conditions could result in fire or accident

In case of malfunction

- Turn OFF the main power switch.
- Unplug the power cord from the receptacle.
- Contact your nearest distributor.

Do not leave the power cord plugged in improperly.



- Doing so could result in electrical shock or fire. Remember to inspect the power cord periodically.

CAUTION

Do not use this product anywhere other than industrial areas.



- Using in a residential area or an area next to a residential area could affect signal reception of radios, television sets, telephones, etc.

Please do not play this game if:

1. You have been drinking.
2. ☒ You are tired or sick or have been recently sick.
3. ☒ You think you might be pregnant.
4. ☒ You have a pacemaker.
5. ☒ You have previously experienced muscle spasms or loss of consciousness by watching a television screen or monitor.

The following list describes incorrect use of the power cord.



- ☐ Do not bend the power cord excessively.
- ☐ Do not heat the power cord.
- ☐ Do not sandwich the power cord.
- ☐ Do not modify the power cord.
- ☐ Do not twist the power cord.
- ☐ Do not pull the power cord.
- ☐ Do not stand on the power cord.
- ☐ Do not puncture the power cord.

If damage does occur to the power cord, stop using the machine immediately and ask your nearest distributor for replacement parts.

- Using a damaged power cord or power plug could result in fire or electrical shock.



PRECAUTIONS FOR USE

CLEANING & INSPECTING YOUR MACHINE

⚠ WARNING

Turn the main power switch to OFF and unplug the power cord from the receptacle BEFORE inspecting or cleaning the machine.

- Failure to do so could result in electrical shock.

Make sure any replacement parts maintain the correct specifications. Never use parts other than the specified ones.

- Using improper parts could result in fire or equipment failure.

The ITG dedicated cabinet is a high voltage machine. Only an industry specialist should open the back panel of the machine. Do not to touch the monitor or any other exposed or LIVE parts or wires.

- This may result in electric shock.

Some parts inside the unit will remain LIVE unless the sub power switch on the service panel and the main power switch of the power unit are switched to OFF. When the back panel is open, turn the main power switch to OFF and unplug the power cord from the receptacle.

- Failure to do so may result in electrical shock or injury.

Strictly refrain from disassembling or repairing parts which are not indicated in this manual. Do not change any settings not listed herein.

- This may result in fire, malfunction, or injury.
In case of machine malfunction, contact your distributor for repair. ROXOR GAMES, INC. will not assume any responsibility for damage to the product attributable to disassembly and repair of parts which are not indicated in this manual.

To clean the game machine, wipe it with a soft cloth Use only a natural, chemical free detergent.

- Using thinner or other organic solvent or alcohol may damage your arcade machine.
- Exposing any part of the machine to water may cause electrical shock or equipment failure.

⚠ CAUTION

This machine contains parts, electrical and precision components that may be sensitive to vibrations and impact.

Please use caution when moving, transporting disassembling, or preparing the cabinet for transport. The machine must remain upright at all times.

Before moving the machine, be sure to turn OFF the main power switch, unplug the power cord from the receptacle, and safely stow the power cord away from the machine.

- Stepping on or tripping over the power cord may result in an injury or may cause damage to the machine.

Before moving the machine, be sure to fully lift the four levelers and move it on the casters.

- Failure to do so may result in damage to the machine..

Do not apply undue force when moving the machine.

- This may result in product damage or personal injury.

FURTHER PRECAUTIONS

- When assembling, maintaining, moving or transporting this product, follow the procedures and instructions set forth herein to safely and correctly interact with the arcade machine.
- Do not assemble, handle, inspect, maintain, move, or transport this product under conditions equivalent to the conditions outlined under the WARNING OR CAUTION headings in this manual.
- If a this product has been received due to transfer of title, etc., this manual, likewise, must be included in the exchange.



SAFETY INSTRUCTIONS

1 POWER SUPPLY

- Use only a grounded outlet.
- Do not extend the power cord for use.
- Check the power requirements before attempting to install the product.
- Use only a power cord that meets the power requirements.
- Use the rating fuse.
- Do not touch the power plug with wet hands.
- Power OFF the product before and during installation procedures.

2 INSTALLATION

- Do not place the product near any flammable materials.
- Install the product in an area suitable for heavy vibrations.
- Install the product in an area with appropriate ventilation.
- Secure the product to prevent movement due to vibration.
- Seek assistance from a qualified industry professional.

3 CLEANING YOUR MACHINE

- Do not randomly disassemble the product.
- Do not use water to clean the product or product components.
- Do not use any volatile detergent, such as wax or thinner.
- Clean inside the product periodically to remove dirt or contamination.
- Do not use this product for purposes unintended by its manufacturer.



TEST & CUSTOMIZE OPERATOR MENU

Operator Menu

Test Hardware and Set Options before gameplay begins.

1

Entering the Operator Menu

Press the Test button () located in the service box at any time.
The Operator Menu will appear.



2 Navigating the Operator Menu

Press the Left (◀) and Right (▶) buttons to change the current row, then press Start (■) to choose the selected option.

* Help

As you change options, an explanation describing the current option appears near the bottom of the screen.

* Serial number

The serial number for the currently installed hard drive + security dongle is displayed in the upper-right corner of the screen.

(1) Insert Credit

Insert one credit.

(2) Options

Configure difficulty, game, and coin options.





TEST & CUSTOMIZE OPERATOR MENU

View coin drop counts and other coin statistics.

3 Entering the Bookkeeping Screen

* Select Bookkeeping from the Service Menu.

* Cycle through different Bookkeeping reports.



* Press Left (◀) and Right (▶) to cycle among the different Bookkeeping reports.

* Exit. Press Start (■) to leave the Bookkeeping screen.



TEST & CUSTOMIZE OPERATOR MENU

* **Transfer Scores: Machine** ☐ ⇒ ☐ **Memory Card**

Copy high scores from the internal memory to a USB memory card.

Insert a USB memory card before choosing this option.

***Transfer Scores: Memory Card** ☐ ⇒ **Machine**

Copy high scores from a USB memory card to the internal memory.

Insert a USB memory card containing previously saved machine score data before choosing this option.

***Copy Edits: Memory Card** ☐ ⇒ ☐ **Machine**

Copy the edits stored in the internal memory to a USB memory card.

Insert a USB memory card before choosing this option.

***Copy Edits: Machine** ☐ ⇐ ☐ **Memory Card**

Copy the edits from a USB memory card to the internal memory.

Insert a USB memory card containing edit files before choosing this option.

* **Test Image**

Display a test image to check the color and brightness of the monitor.



TEST & CUSTOMIZE OPERATOR MENU

3

Test Input

Check that pad sensors and cabinet buttons are functioning properly.

* Entering the Test Input Screen

Select Test Input from the service menu.

* Testing Pad Sensors

A message will appear on the screen indicating which inputs are detected as being held. There are 4 sensors per panel and the edge names shown inside parenthesis indicate which sensors in the panel are being held.

For example:



* Testing Cabinet Buttons

Cabinet buttons will also appear on screen when pressed. The cabinet buttons have only one sensor per button.

* Exit

Press Start ☐ ☒ ☐ to leave the Input Test screen.



TEST & CUSTOMIZE OPERATOR MENU

*** Stuck Sensors**

Stuck sensors severely impair gameplay. A stuck sensor will not recognize any change in applied pressure during gameplay.

If the Input Test screen shows a sensor as being held when no pressure is applied to the panel, then the sensor is stuck and maintenance is required. Follow the Repairing a Sensor instructions below to correct the problem.

*** Unresponsive Sensors**

Unresponsive sensors adversely affect gameplay. If a sensor does not respond properly to applied pressure, the game may not accurately register correctly timed steps during gameplay.

To test each of the 4 sensors in a panel, use your foot to apply pressure on the 4 inside edges (left, right, top, and down) of each panel. Check that each of the four sensors in every panel can be activated by stepping on the inside edges. If a sensor does not register or is unresponsive, follow the Repairing a Sensor instructions below.

*** Repairing a Sensor**

To fix a stuck or unresponsive sensor, unscrew the two adjacent corner brackets on the panel. Carefully slide out the plexiglass panel. Remove the problem sensor from its metal bracket, clean dirt and other particles from the bracket area, inspect the sensor for physical damage, then reseat the sensor. Replace the plexiglass and re-test the sensor. If the sensor continues to be stuck or unresponsive, the sensor will need to be replaced.



TEST & CUSTOMIZE OPERATOR MENU

4 Test Lights

Determines functionality of pad and cabinet lights.

* Entering the Test Lights Screen

Select Test Lights from the Service Menu.

* Explanation

This screen will cycle through the cabinet and pad lights one at a time. A message shows which lights are currently lit according to the software.

For example:



* Manually cycling the cabinet lights

Press Left  and Right  on the Player 1 side to manually cycle through cabinet lights.

* Manual cycling the panel lights

Press Left  and Right  on the Player 2 side to manually cycle through pad lights.

* Exit

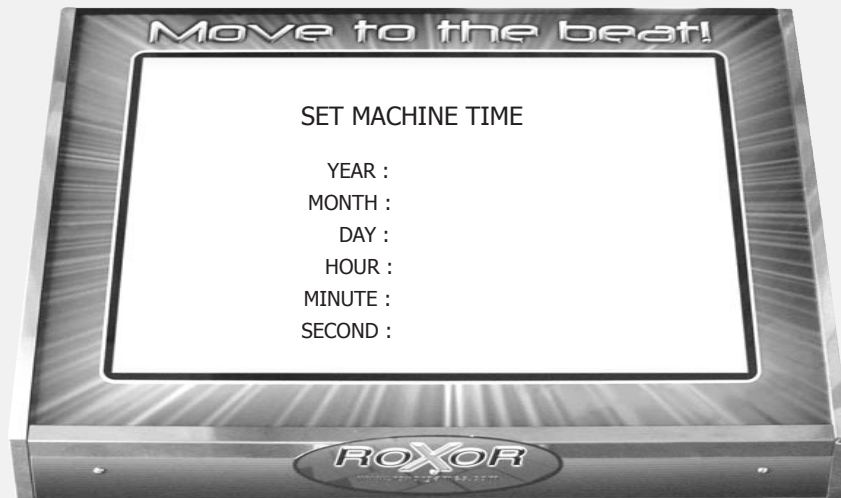
Press Start  to leave the Test Lights screen.



TEST & CUSTOMIZE OPERATOR MENU

5 Set Machine Time

Set clock. The machine's clock is used when saving high scores and all other bookkeeping data.



6 Reset Menu

Reset options, bookkeeping data, statistics, or edits.



*** Exit**

Leave the Service Options menu.

1. PART NAME

2. SPECIFICATION

3. HOW TO INSTALL IN THE GROOVE

3-1. MOUNTING THE MARQUEE TO THE
MONITOR

3-2. CONNECTORS

3-3. CONNECTING THE FLOOR PADS TO
EACH OTHER

3-4. CONNECTING THE FLOOR PADS TO THE
MAIN ASSEMBLY

4. FLOOR PAD ASSEMBLY

4-1. FLOOR PAD ASSEMBLY

4-2. FLOOR PAD ASSEMBLY

4-3. FLOOR PAD ASSEMBLY

4-4. FLOOR PAD ASSEMBLY

5. MARQUEE ASSEMBLY

5-1. MARQUEE ASSEMBLING

5-2. MARQUEE ASSEMBLING

6. SPEAKER ASSEMBLY

7. BUTTON PLATE ASSEMBLY

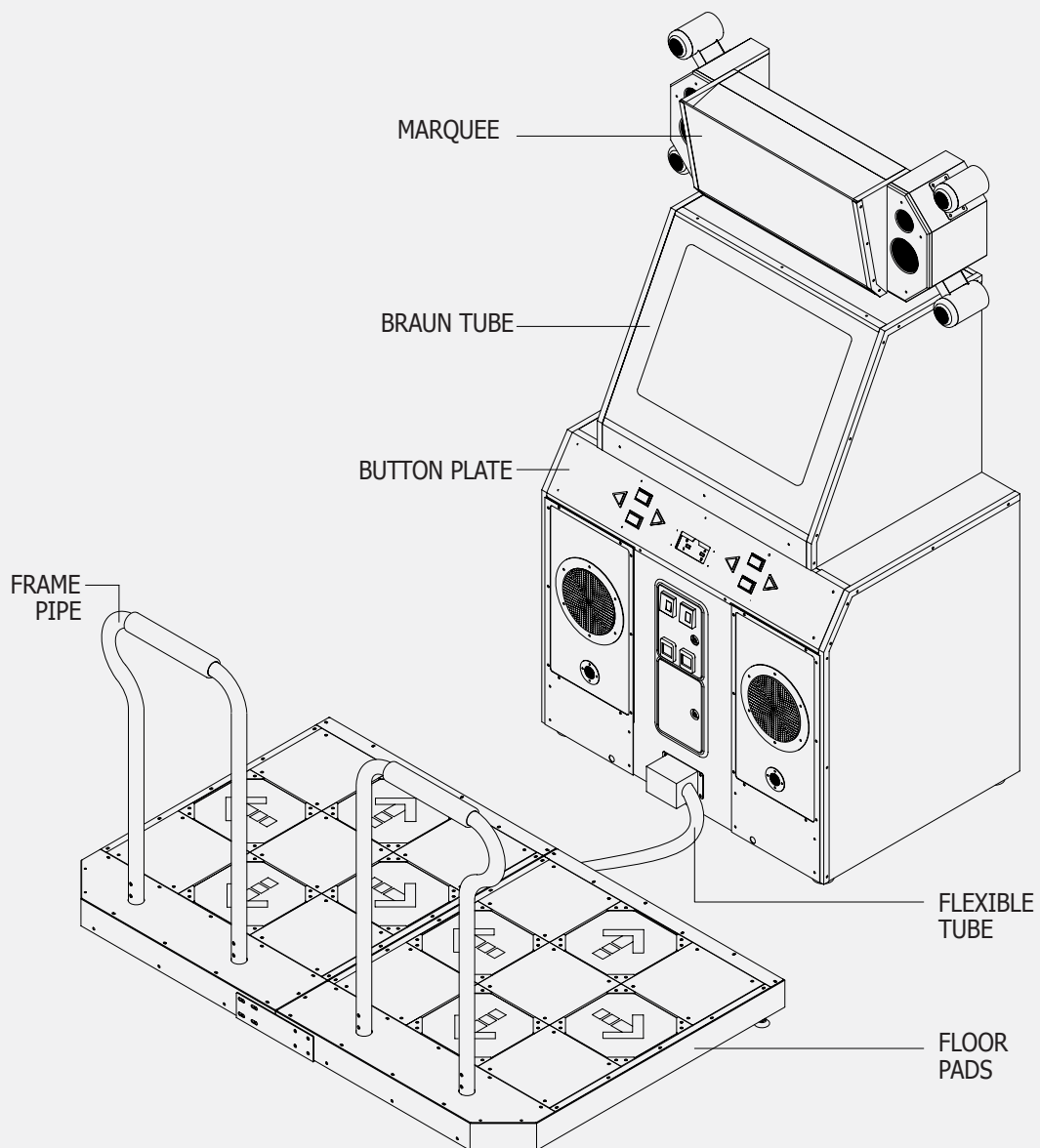
8. COIN DOOR & CONTROL PANEL ASSEMBLY

9. MAIN BOX & AMPLIFIER BOX ASSEMBLY

10. IN THE GROOVE CABINET

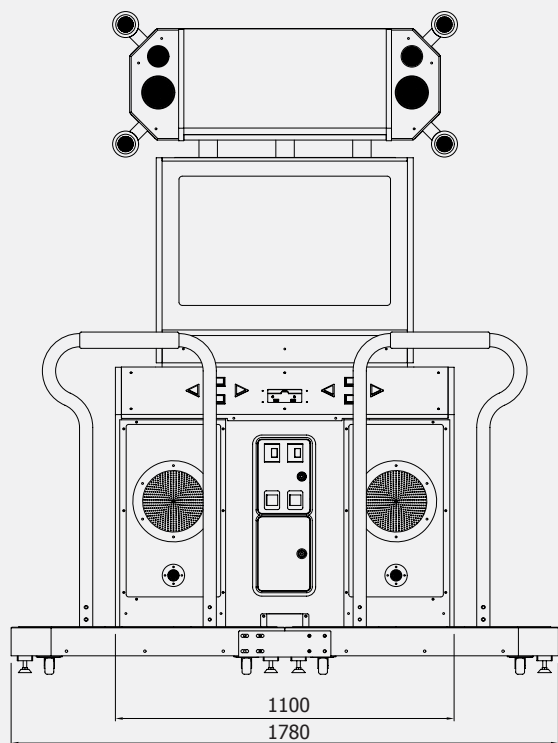
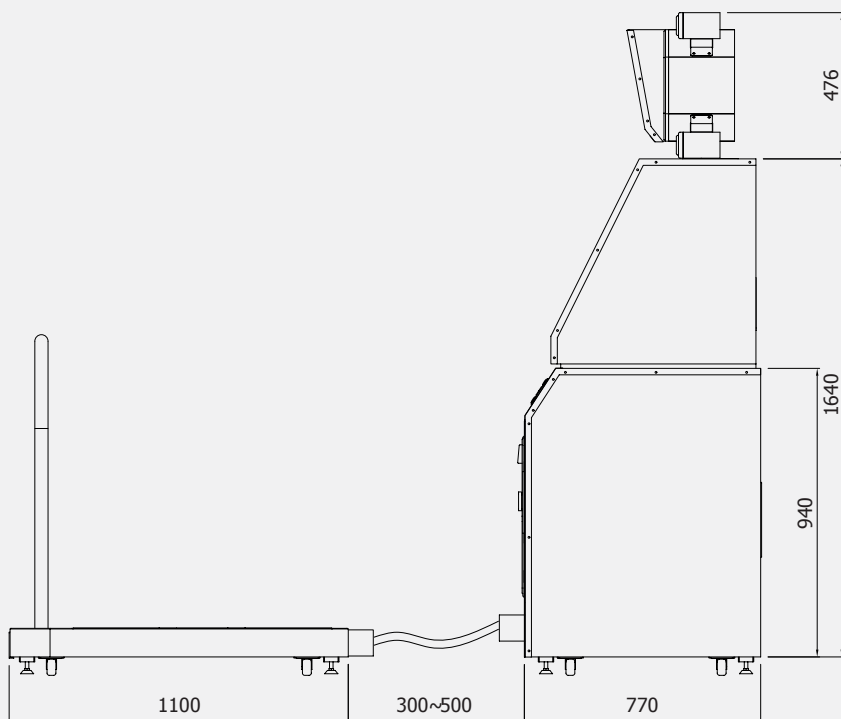


PART NAMES





SPECIFICATIONS

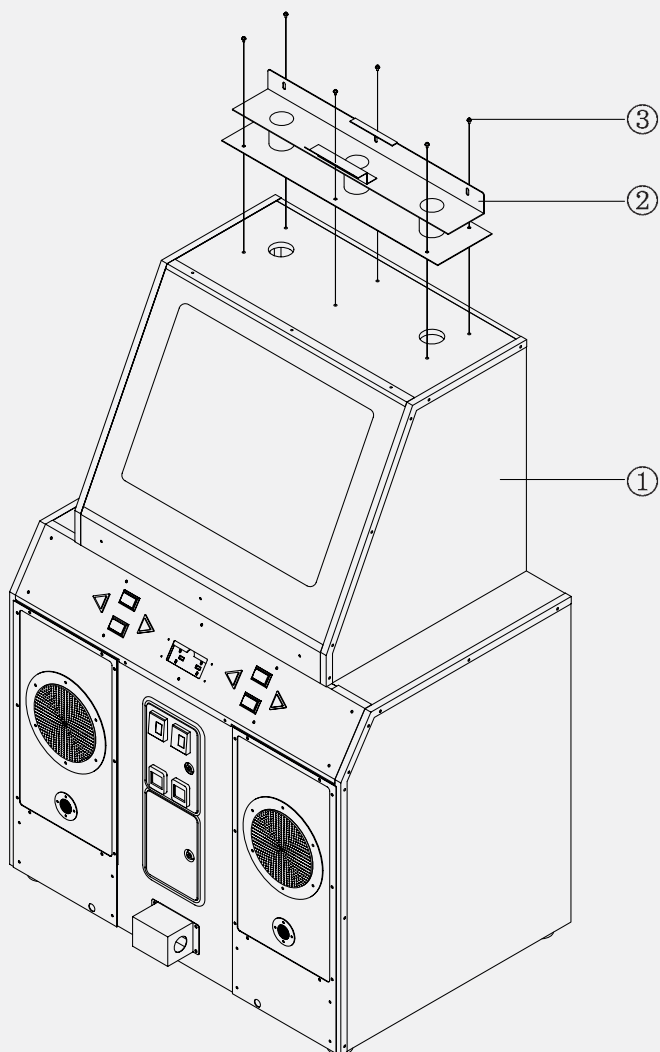


POWER CONSUMPTION		400 W
MAXIMUM POWER CONSUMPTION		600 W
SCREEN SIZE		34"
WEIGHT (Kg)	BODY	220 kg
	FLOOR	182 kg
POWER REQUIREMENTS		AC 110V / 60Hz



HOW TO INSTALL IN THE GROOVE

- 7 Fasten 6 screws to mount the marquee bracket on the monitor.

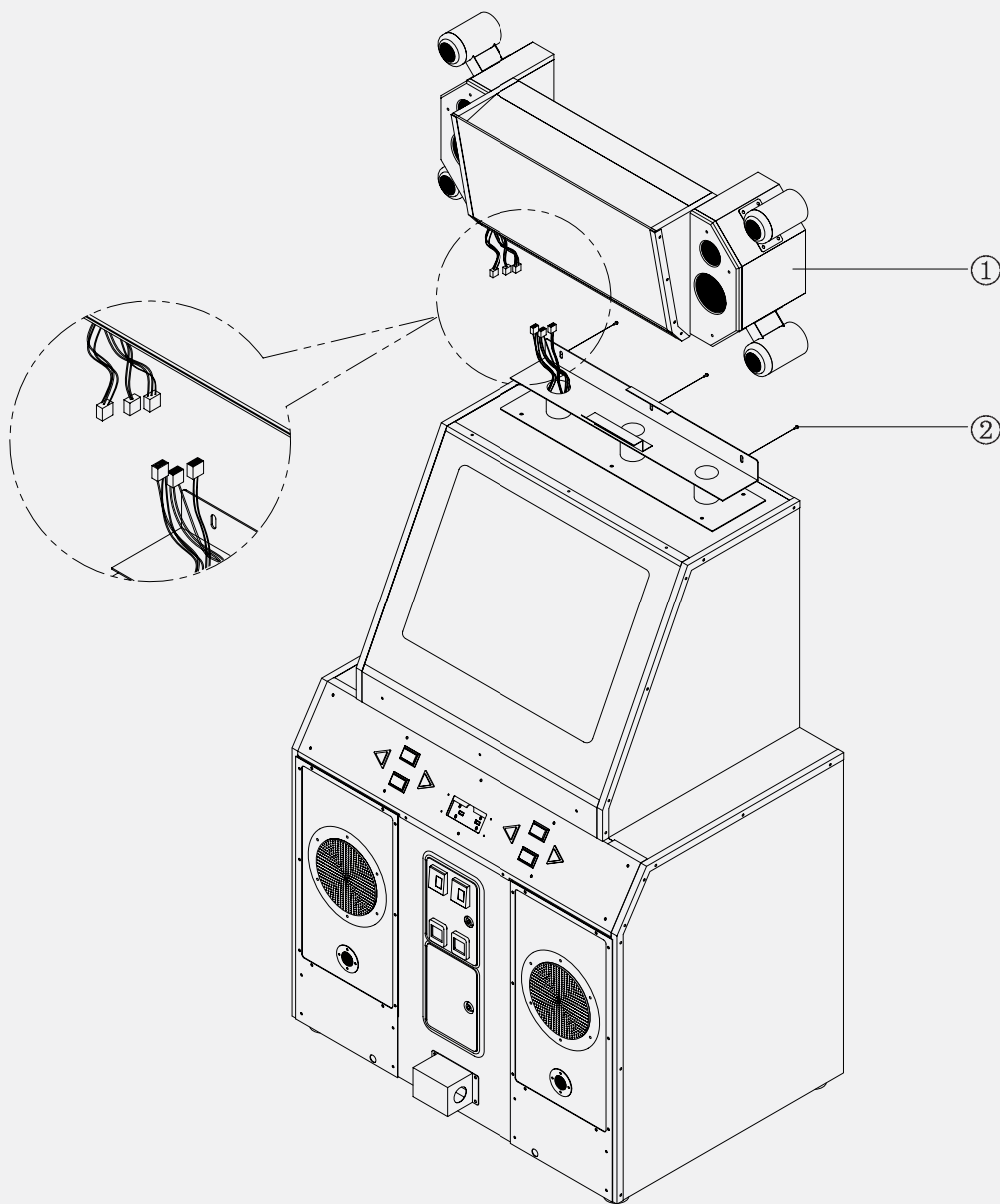


NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	CABINET ASS'Y		1	APUG0W00005
2	MARQUEE FIXING BRACKET		1	
3	SEMS	M6 × L20	6	



HOW TO INSTALL IN THE GROOVE

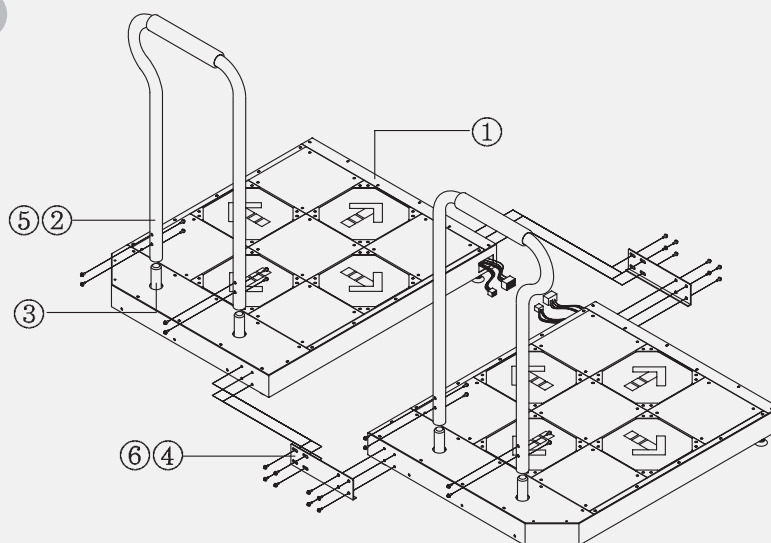
8 Connect All Conectors



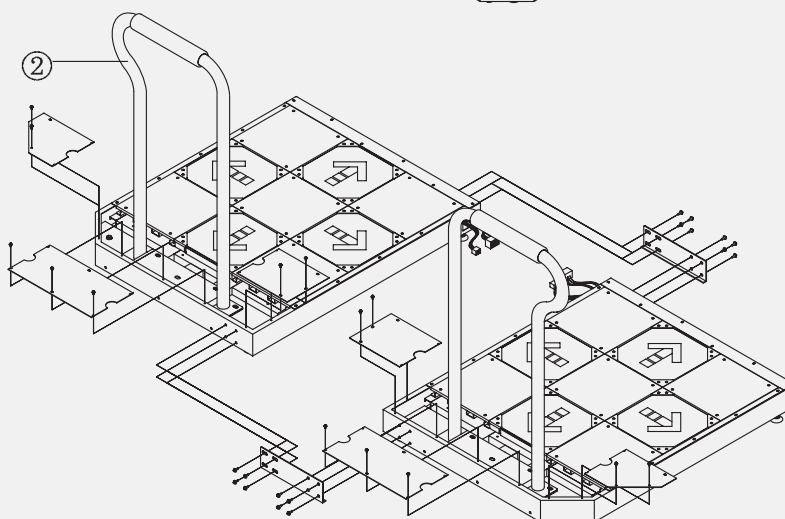
NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	BILLBORAD		1	
2	SEMS	M6 × L20	6	

9 ATTACH FLOOR PADS

A



B

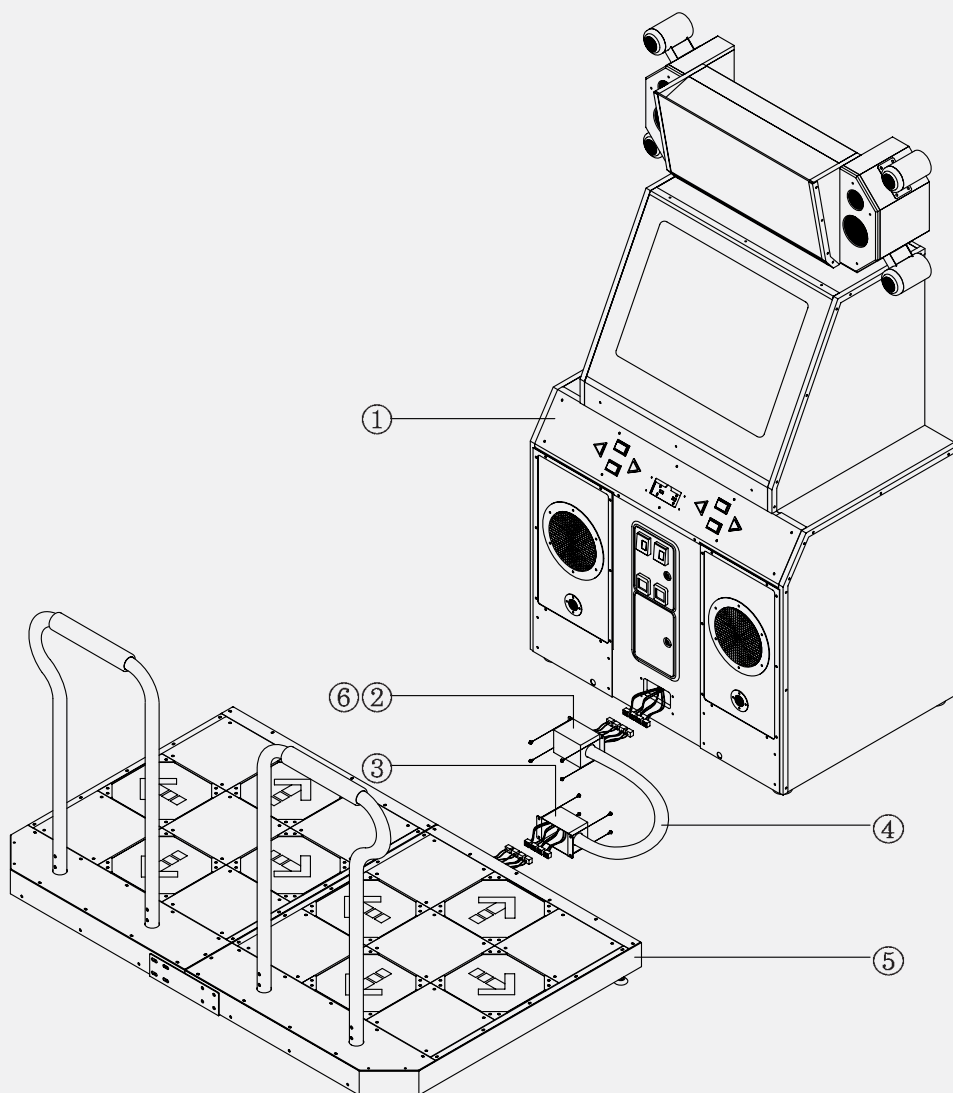


NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	CROSS STEP ASSY		1	APUS0WOO003
2	FRAME PIPE A, B		4	MPUS0MEP035
3	PIPE SHAFT		4	
4	FRAME JOINT BRACKET		2	MPUS0MEP047
5	HEXAGON SOCKET HEAD CAP SCREW	M6 × L20	16	
6	HEXAGON SOCKET HEAD CAP SCREW	M6 × L20	16	



CABINET ASSEMBLY

10 CONNECTING FLOOR PADS TO THE MAIN CABINET



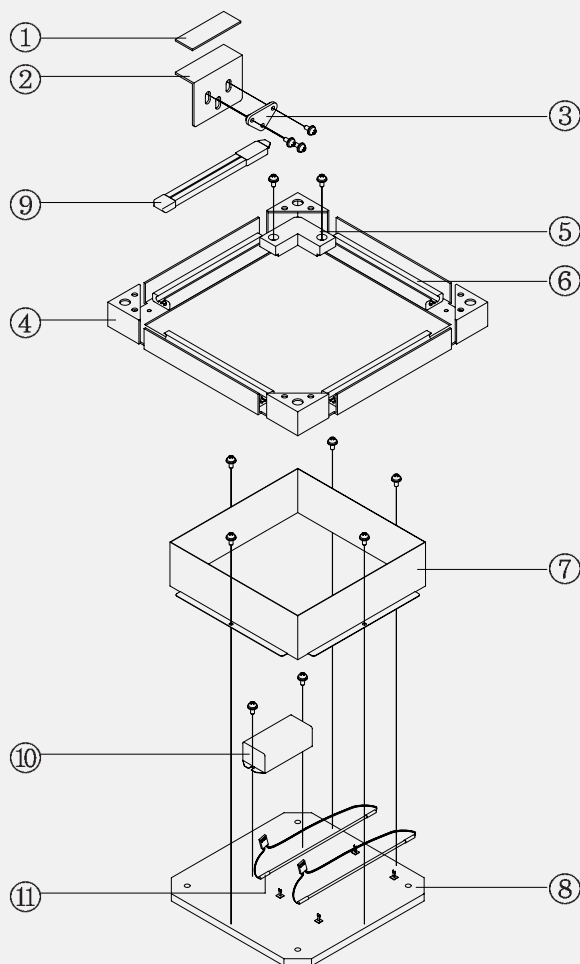
NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	CABINET ASSEMBLY		1	APUG0W0005
2	CONNECTOR BOX - CABINET		1	MPUD0MEP008
3	CONNECTOR BOX - STEP		1	MPUD0MEP009
4	FLEXIBLE TUBE ASS'EMBLY		1	APUS0W0012
5	CROSS STEP ASSEMBLY		1	APUS0W0003
6	HEXAGON SOCKET HEAD CAP SCREW	M6 × L20	8	



ASSEMBLING THE FLOOR PANEL

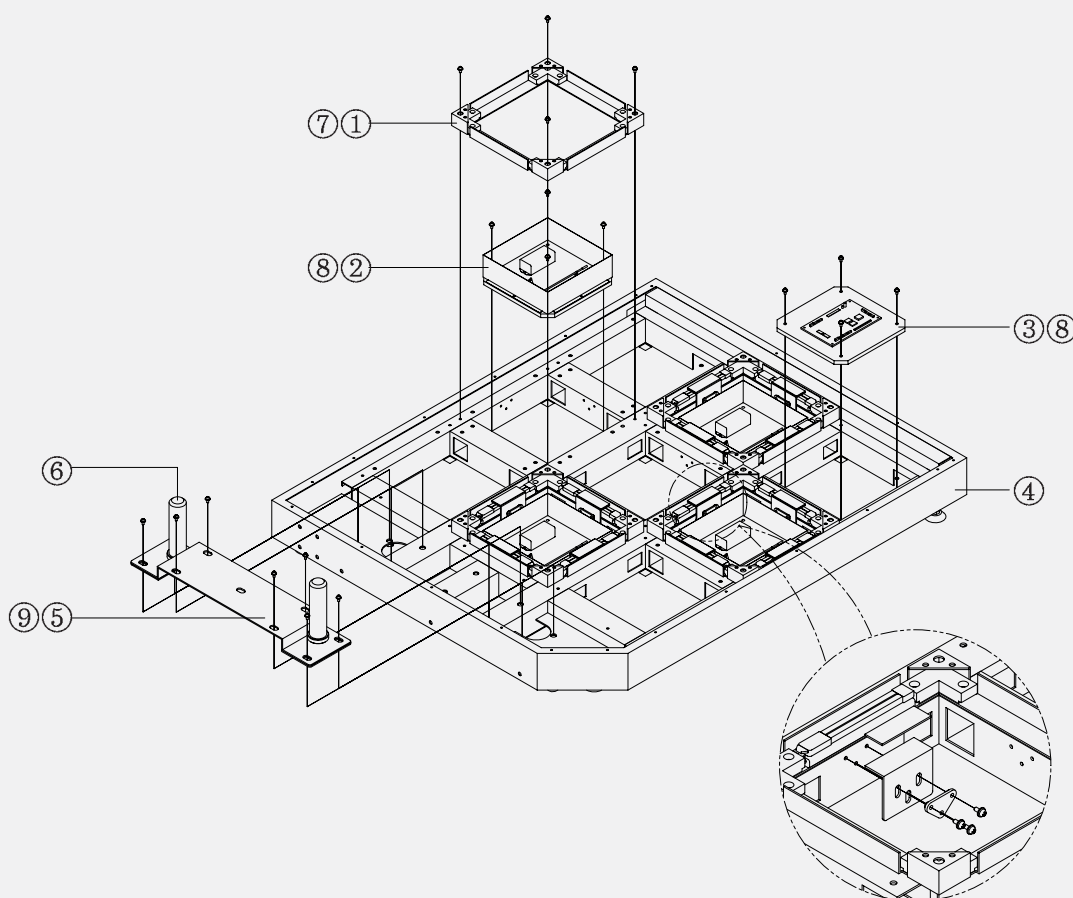
*THIS ASSEMBLY DRAWING IS BASED ON A SPECIFIC MODEL

11 FLOOR PANEL DIAGRAM



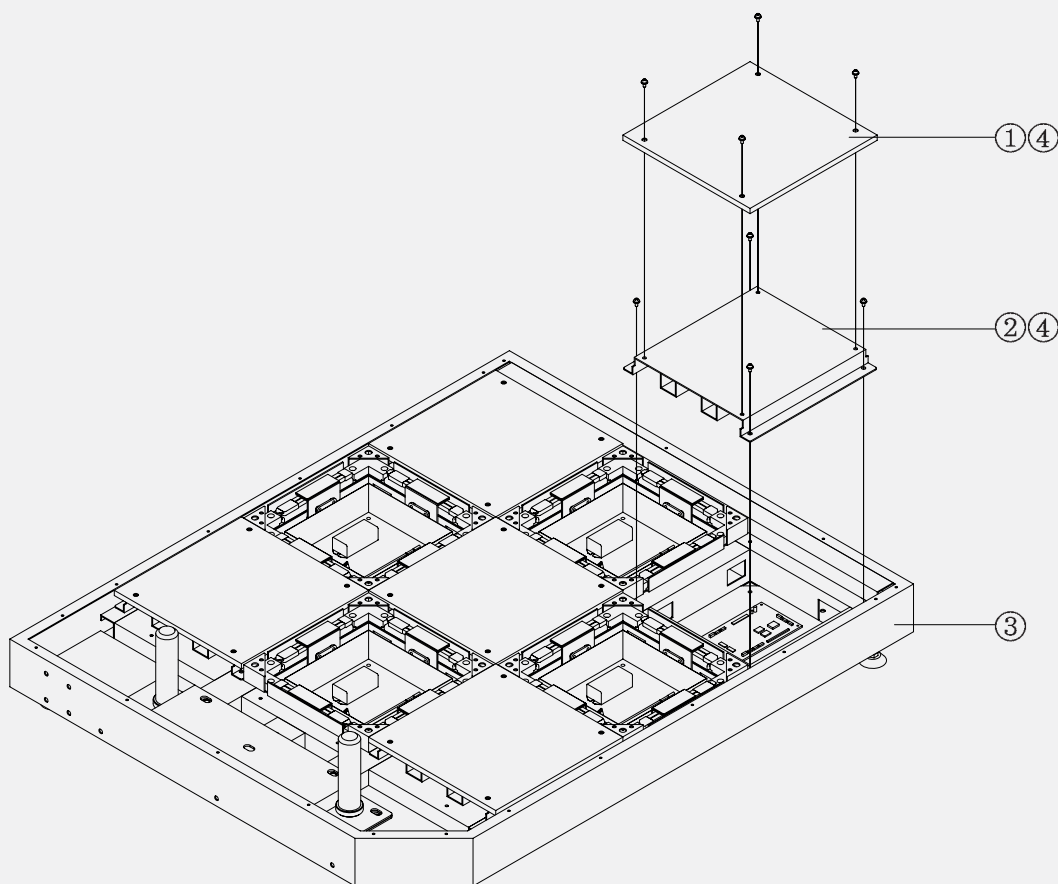
NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	SENSOR BRACKET TAPE		32	MPUS0000001
2	SENSOR COVER BRACKET		32	MPUS0MEP041
3	BRACKET SUPPORT		32	MPUS0PLA018
4	SWITCH FRAME		8	MPUS0MEP072
5	STEP ACRYL STOPPER		32	MPUS0PLA017
6	SENSOR RUBBER		32	MPUS0PLA016
7	CCFL COVER		8	MPUD0PLA005
8	STEP WOOD		12	MPUS0WOO017
9	FOOT SENSOR		32	MELE0SEN003
10	INVERTER		8	MELE0INV001
11	CCFL LAMP	150MM	16	MELE0LAM012

12 ASSEMBLING THE FLOOR PANEL



NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	SWITCH FRAME ASSEMBLY		1	
2	CCFL COVER ASSEMBLY		1	
3	FOOT PCB ASSEMBLY		1	APUS0PCB017
4	STEP FRAME		1	MPUS0MEP045
5	HANDLE JOINT BRACKET		2	MZZZ0MEP004
6	PIPE SHAFT		2	
7	SEMS	M4 × 16L	4	
8	SEMS	M4 × 20L	8	
9	SEMS	M10 × 16L	8	

13 ASSEMBLING THE FLOOR PANEL

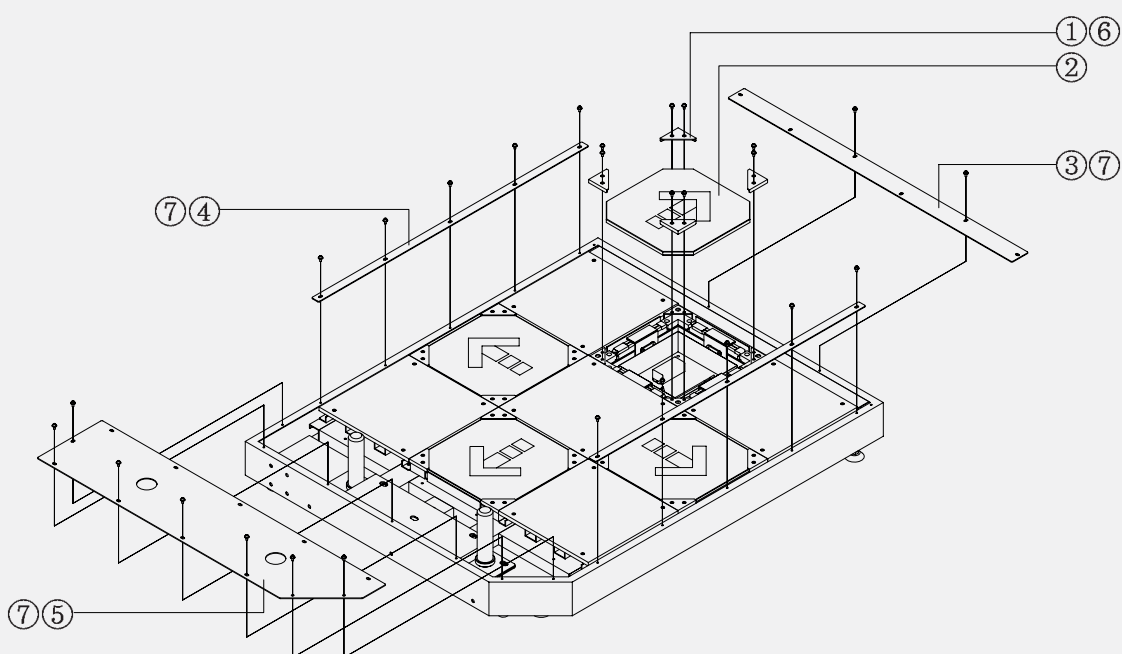


NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	COVER PANEL		4	MPUS0MEP013
2	FRAME SUPPORT PANEL		4	MPUS0MEP022
3	STEP FRAME		1	MPUS0MEP045
4	SEMS	M6 × 16L	8	



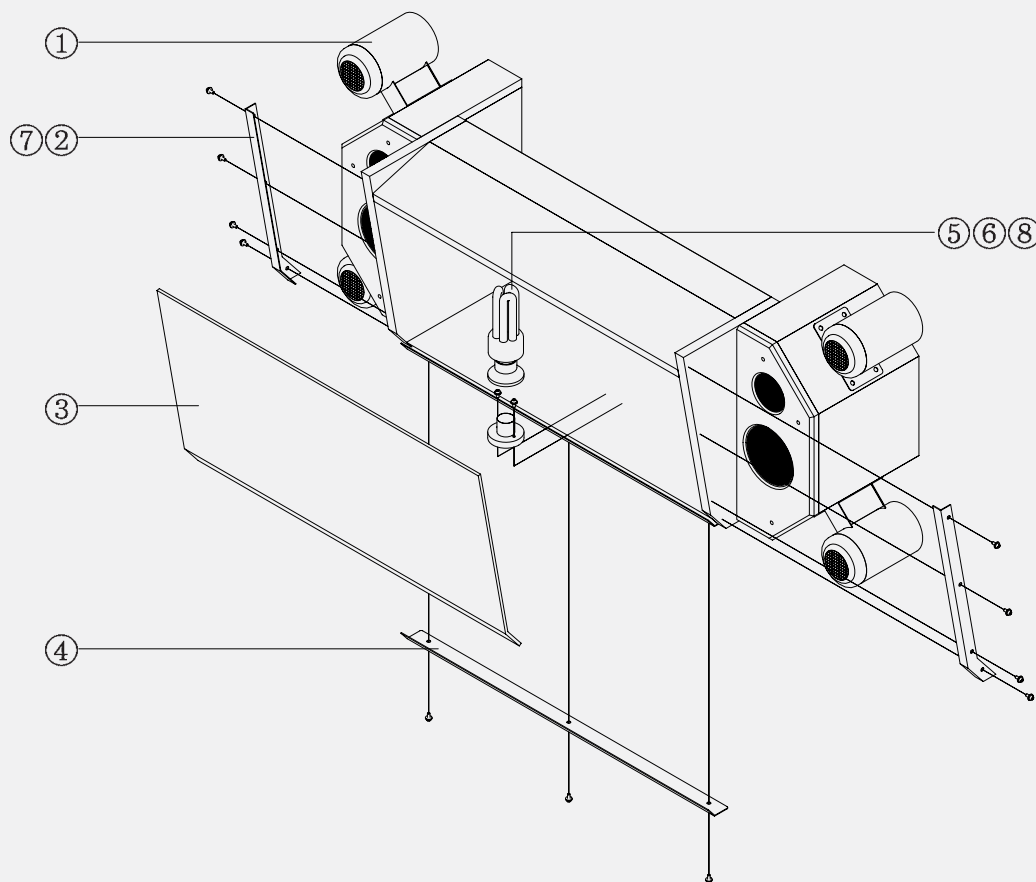
ASSEMBLING THE FLOOR PANEL

13 ASSEMBLING THE FLOOR PANEL

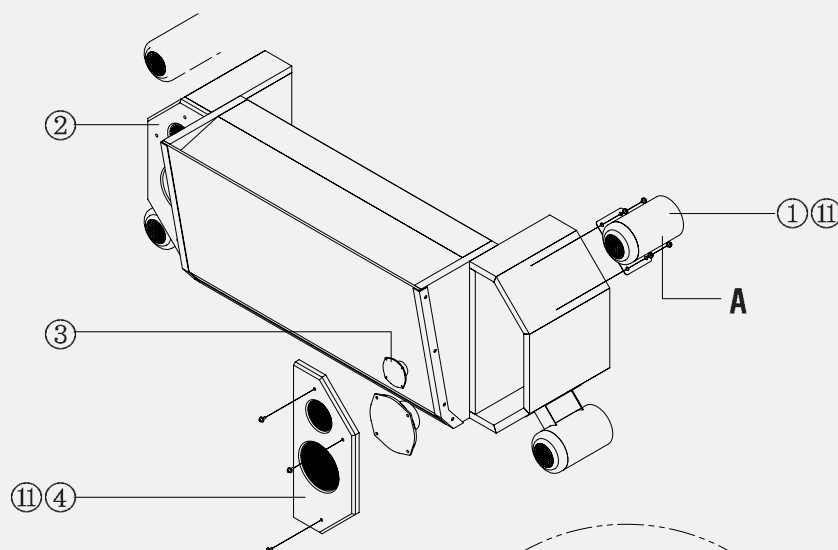


NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	STEP ACRYL COVER		16	MPUS0MEP044
2	STEP ACRYL		4	MPUS0MEP044
3	FRAME FRONT COVER		1	MPUS0MEP018
4	FRAME SIDE COVER		2	MPUS0MEP021
5	FRAME REAR COVER		2	MPUS0MEP019
6	HEXAGON SOCKET HEAD CAP SCREW	M6×L16	8	
7	SEMS	M4×L16	28	

13 DIAGRAM OF THE MARQUEE



NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	LIGHTING SUPPORT BRACKET		4	
2	MARQUEE ACRYL SUPPORT BRACKET		2	
3	MARQUEE ACRYL		1	MPUS0ACR021
4	MARQUEE ACRYL LOWER SUPPORT BRACKET		1	
5	LAMP	3 WAVE LAMP	1	MELEOLAM005
6	AC RECEPTACLE	3 WAVE SOCKET	1	MELEOARE002
7	SEMS	M4 × L16	8	
8	TAPPING SCREW	M4 × L30	2	

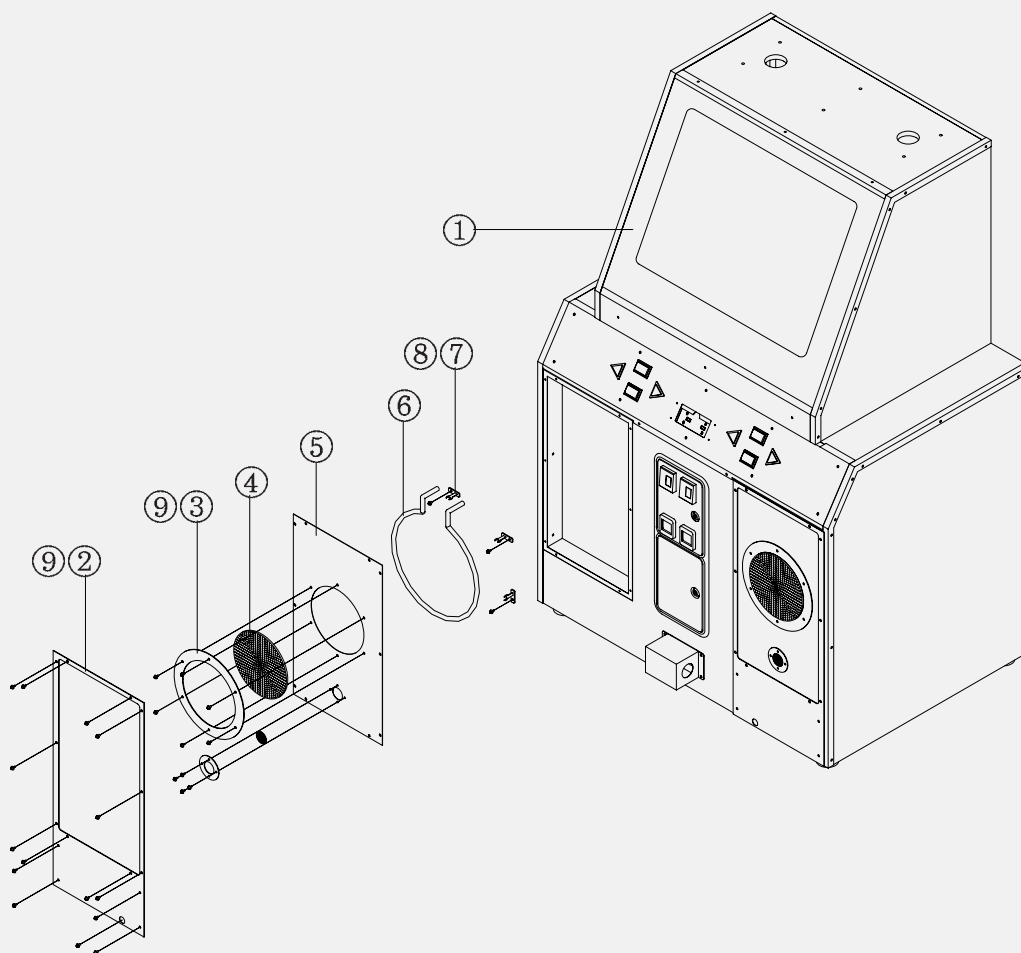


PICTURE A

NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	LIGHTING SUPPORT BRACKET		1	
2	MARQUEE SPEAKER COVER BOX		2	
3	SPEAKER	HIGH-2.5 / MID 4.5	4	
4	MARQUEE SPEAKER COVER		2	
5	HALOGEN LAMP BACK COVER		2	
6	HALOGEN LAMP		2	MELE0LAM009
7	LAMP BOX		2	
8	MARQUEE LAMP ACRYL		2	
9	MARQUEE LAMP CAPSPEAK		2	
10	LAMP BOX SUPPORT		2	
11	SEMS	M6 × L25	22	
12	SEMS	M4 × L16	2	

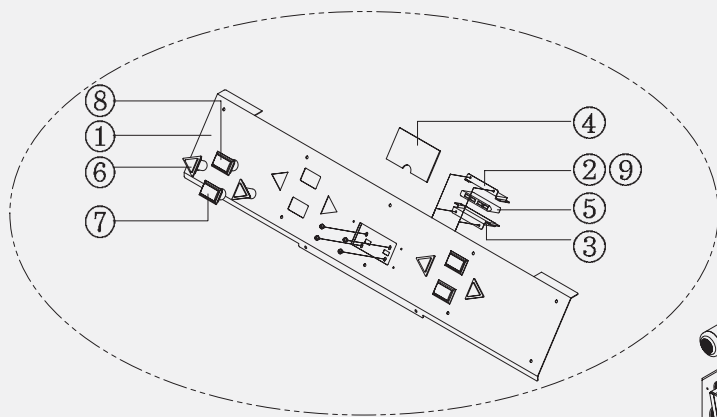


SPEAKER ASSEMBLY

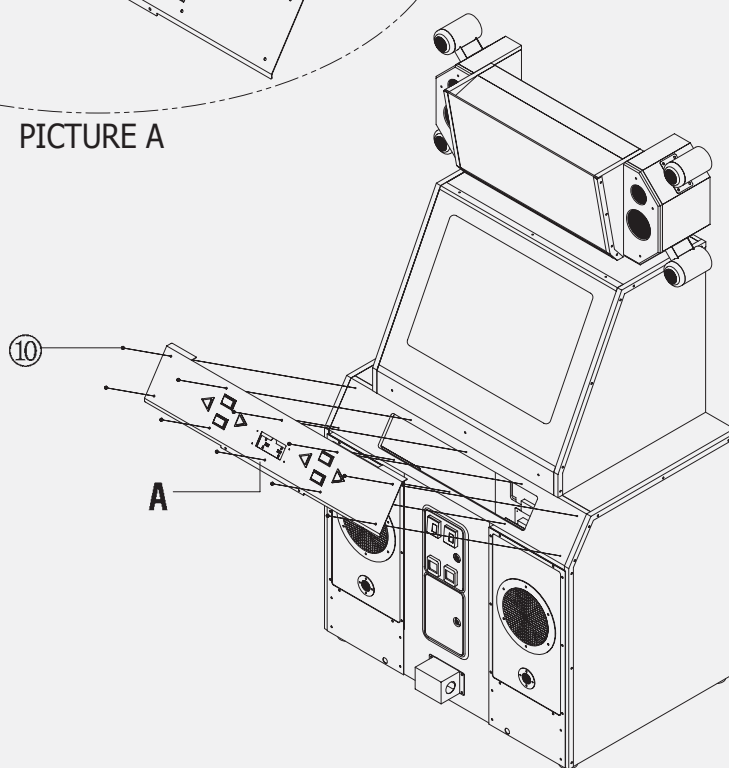


NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	CABINET ASS'Y		1	APUG0WOO005
2	SPEAKER ACRYL COVER BRACKET		2	
3	SPEAKER RING		2	MPUD0PLA002
4	SPEAKER NET		2	MPUS0MEP053
5	SPEAKER ACRYL		2	MPUS1ACR009
6	NEON LAMP		2	MELE0LAM010
7	NEON LAMP SUPPORT		3	MPUS0WOO010
8	TAPPING SCREW	M4 × 16L	3	
9	SEMS	M4 × 20L	25	

BUTTON PLATE ASSEMBLY



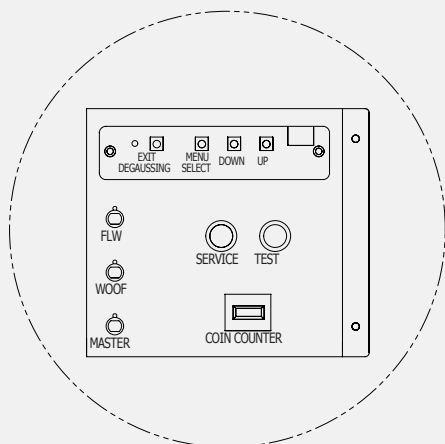
PICTURE A



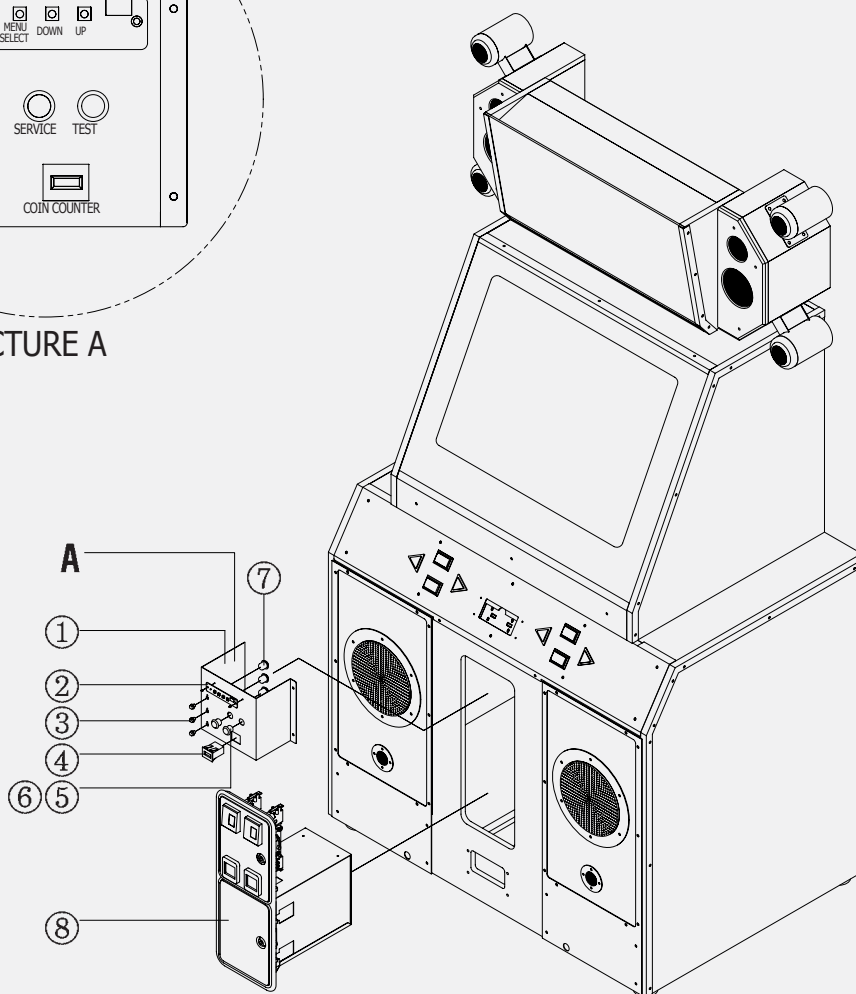
NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	BUTTON PLATE		1	MPUG0MEP002
2	USB HUB UPPER COVER BRACKET		1	MPUG0MEP005
3	USB HUB LOWER COVER BRACKET		1	MPUG0MEP006
4	HUB COVER ACRYL		1	MPUG0ACR007
5	USB HUB	4 PORT	1	
6	BUTTON SWITCH	BLUE	4	MZZZ0BUT037
7	BUTTON SWITCH	RED	2	MZZZ0BUT036
8	BUTTON SWITCH	GREEN	2	MZZZ0BUT041
9	SEMS	M4 × 16L	4	
10	SEMS	M4 × 20L	10	



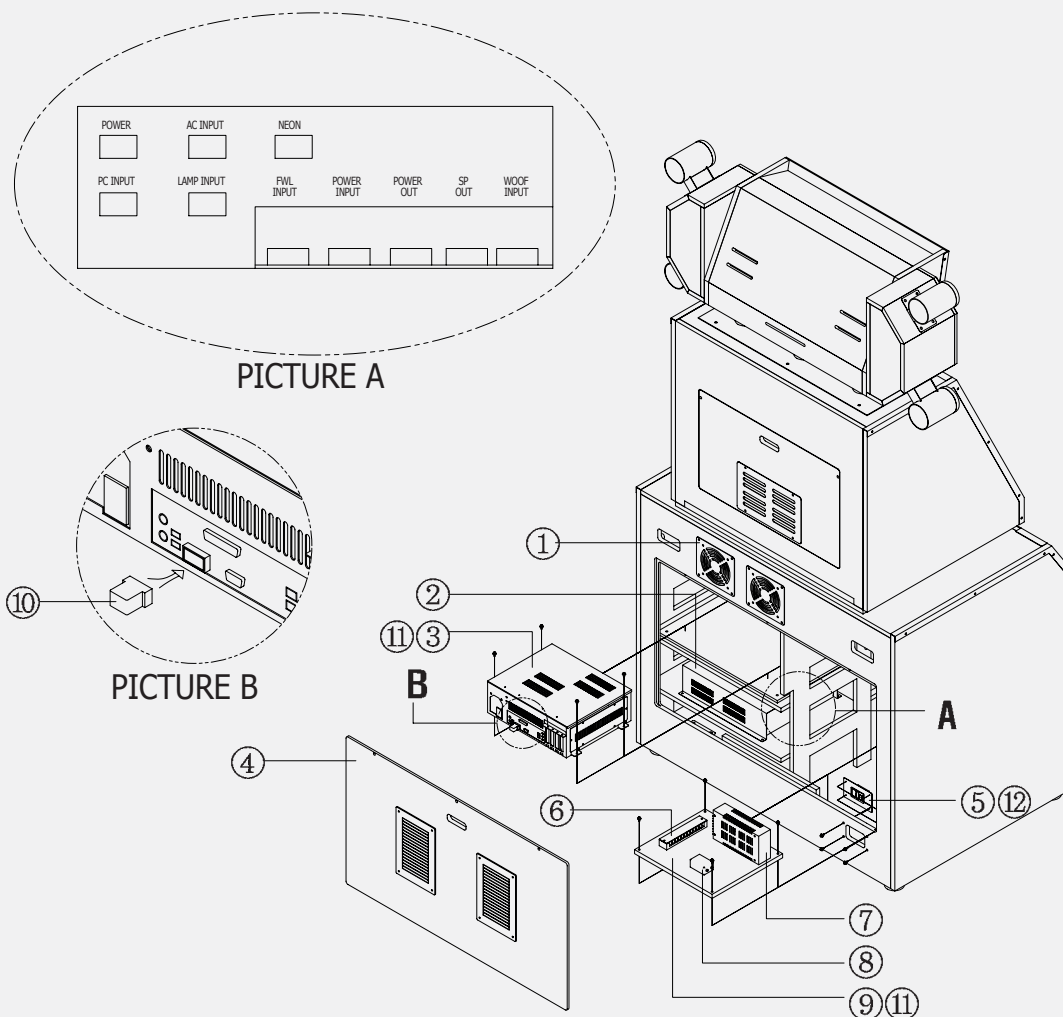
COIN DOOR & CONTROL PANEL ASSEMBLY



PICTURE A



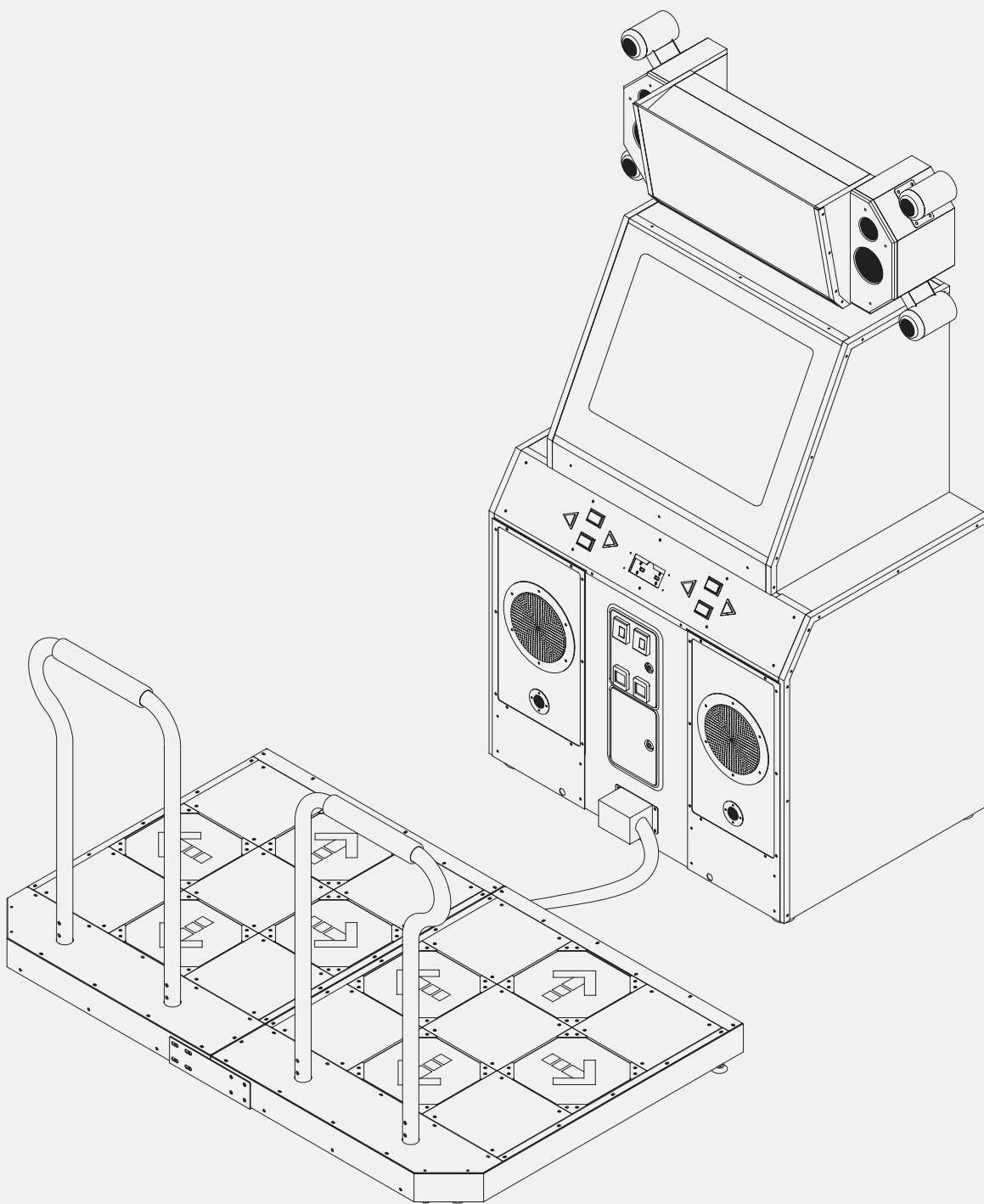
NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	AC POWER SWITCH BRACKET		1	
2	SSR PCB ASSEMBLY	PUMP-PIU05	1	APUS1PCB004
3	VOLUME	VR103(10K)	1	PRES0VRZ003
4	COUNTER	AMMC-712 (7D12V)	1	MZZZ0COU002
5	PUSH BUTTON SWITCH	412R	1	MELE0PUS001
6	PUSH BUTTON SWITCH	412W	1	MELE0PUS002
7	VOLUME KNOB		1	MELE0VOL007
8	COIN DOOR ASSEMBLY		1	AZZZ0COD002



NO	PART NAME	SPEC.	QUANTITY	CODE NO.
1	FAN BRACKET		2	
2	AMP BOX ASSEMBLY		1	APUS0W00010
3	MAIN BOX ASSEMBLY	MK6 895 TYPE	1	APUS0000009
4	CASE BACK DOOR		1	
5	NOISE FILTER	250V-10A	1	MELE0NOI001
6	TERMINAL BLOCK	12P UL	1	MELE0TEB002
7	SMPS	DC-12V 12A	1	MELE0SMP006
8	NOISE FILTER	250V-10A	1	MELE0NOI001
9	SUPPORT PLATE		1	
10	LOCK CHIP	SERIAL PORT	1	MZZZ0000058
11	TAPPING SCREW	M4 × 20L	8	
12	SEMS	M4 × 20L	4	



IN THE GROOVE 2 CABINET

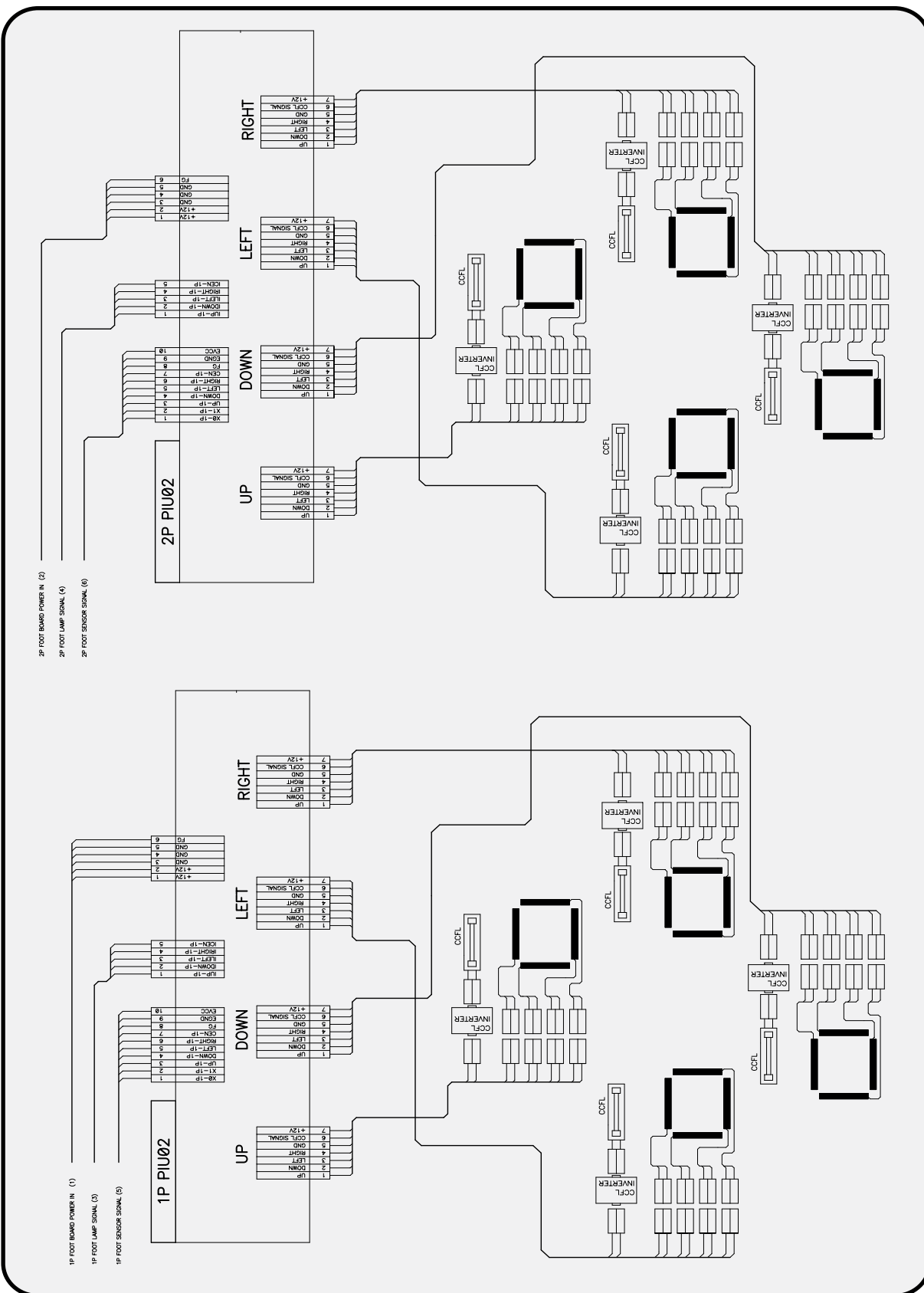








Wiring Diagram 3





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