SPACE RAIDER

IMPORTANT

Be Sure to Read this Manual Before Use

UNIS TECHNOLOGY

Operation Manual

WE ARE HERE TO ASSIST

For parts and service

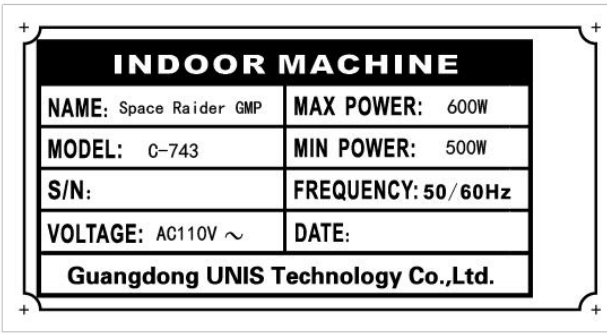
Have Questions? Contact us!

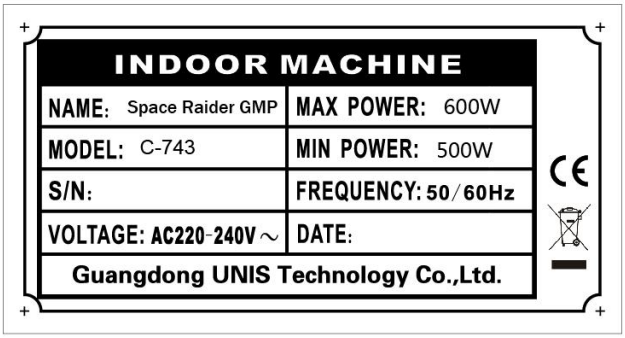
UNIS SERVICE CENTER

Tel: 972-241-4263

Email: service@unispartsandservice.com

www.unispartsandservice.com





CONTENT

IMPORTANT SAFETY INSTRUCTIONS.....3

1. SPECIFICATIONS.....5

2. CONTENTS OF THE ACCESSORY KIT..... 6

3. PART NAME.....7

4. SET UP & INSTALLATION..... 8

5. HOW TO PLAY.....22

6. GAME OPTION.....23

7. TROUBLESHOOTING.....27

8. MAINTENANCE & INSPECTION.....32

9. OVERALL CONSTRUCTION..... 33

WIRING DIAGRAM

Thank you for purchasing **Space Raider.** 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 VOID ALL WARRANTIES AND OPERATOR ASSUMES ALL RISKS.

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

1. SPECIFICATIONS

Rated power supply: AC110V 50/60Hz; AC220V 50/60Hz;

Min. Power consumption: 500W

Max. Power consumption: 600W

Dimension:H90.35×W60.51×D63.03 in

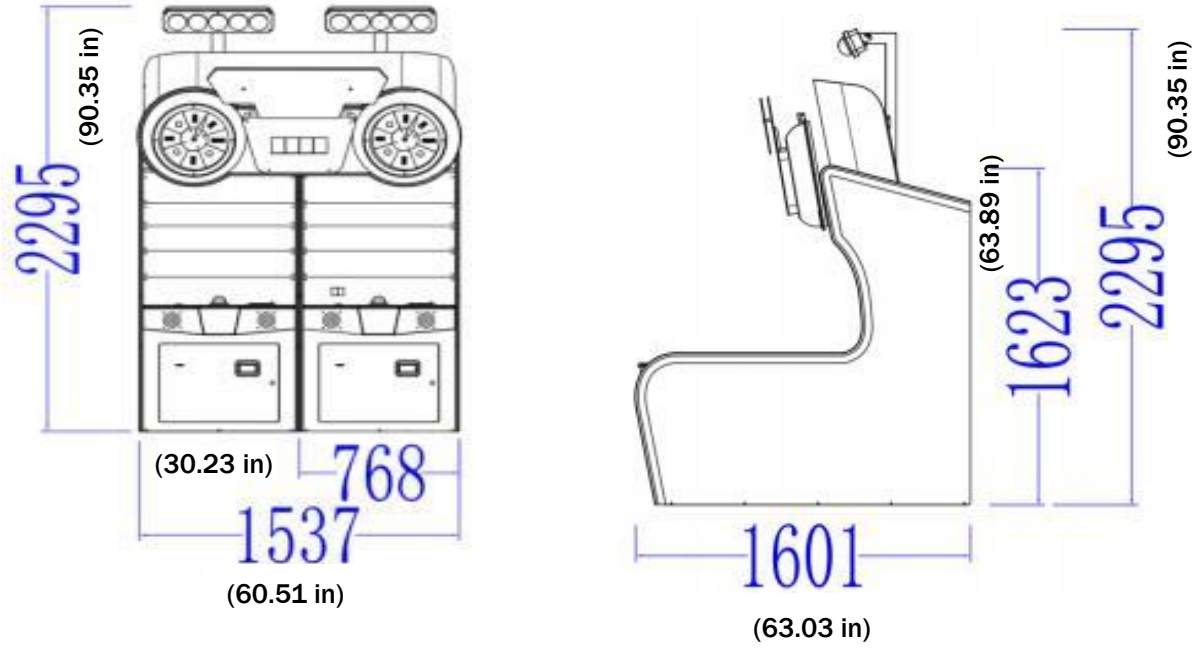
H2295×W1537 ×D1601 mm

Weight：Approximately 771 lb/ 350kg

Model No.: C-743

Part No.:S187

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



Note: Game specifications are subject to change without notice.

2. CONTENTS OF THE ACCESSORY KIT

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

Following accessories

No.	Part No.	Code No.	Name/SPEC	Picture	Qty
1	S187-0710-00	SJPJ-10	Manual		1
2	S187-0709-00	SJPJ-09	Power cord		1
3	S187-0711-00	SJPJ-11	Key		4
4	S187-0705-00	SJPJ-05	Fuse		2
5	S187-0701-00	SJPJ-01	Motor plate	/	1
6	S187-0702-00	SJPJ-02	L&R sensor	/	1
7	S187-0703-00	SJPJ-03	Stepping motor sensor	/	1
8	S187-0704-00	SJPJ-04	Blast button	/	1
9	S187-0706-00	SJPJ-06	Block coin iron wire	/	1
10	S187-0707-00	SJPJ-07	Turntable pin	/	1
11	S187-0708-00	SJPJ-08	Door control sw	/	2

NOTE: Part models are subject to change without notice.

3. PART NAME

Key Components

4. SET UP & INSTALLATION

⚠ NOTICE

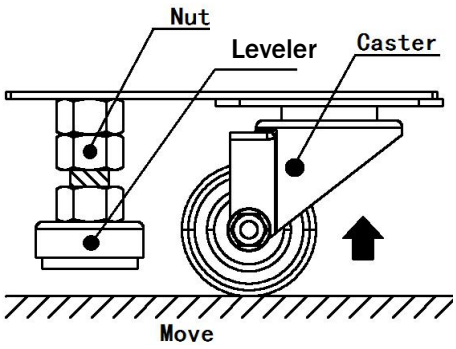
We do not recommend using power tools as they may cause damage.

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

- Refer to IMPORTANT SAFETY INSTRUCTIONS (Pg. 3) 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 Transporting the Game

If you need to move the game, adjust the levelers back to an "up" position.



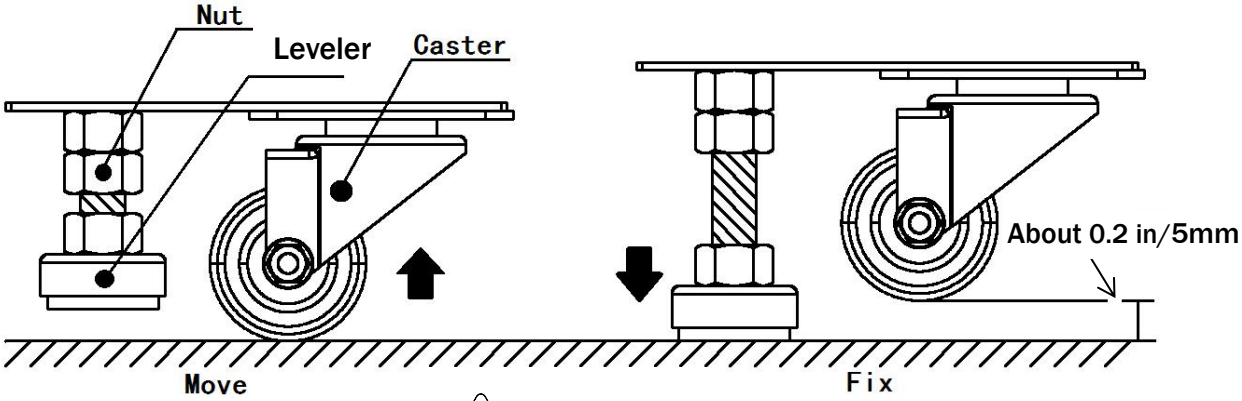
⚠ NOTICE

- Be careful not to damage the machine during transport.
- 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.

4.2 Level Adjustment

Install this game on a flat surface. If the game is installed on an unsuitable floor, it could cause game malfunction.

To secure the game, loosen the nut, utilize wrench to adjust the leveler down until it touches the floor, lifting the casters off the ground by 0.2 in/5mm. Repeat the same for all levelers.



⚠ NOTICE

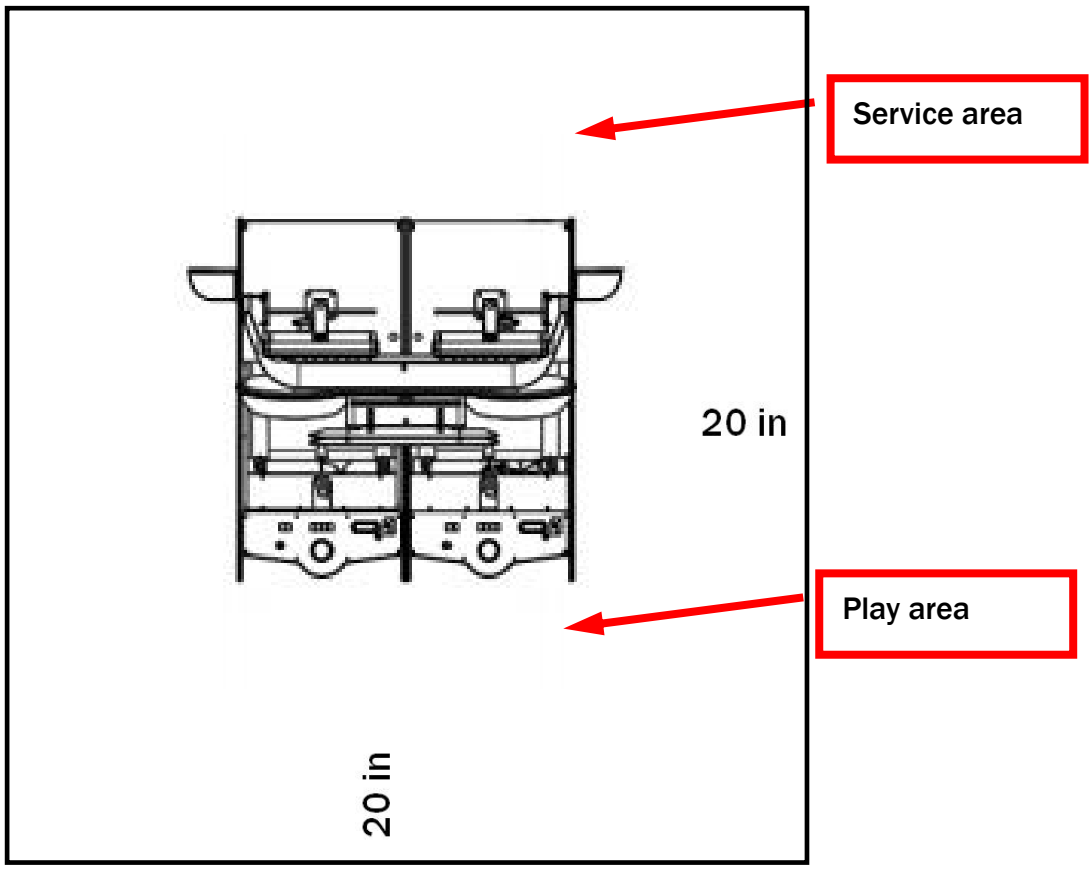
Make sure the machine is level.

4.3 Play Zone

This machine requires space for playing and for maintenance as shown below.

Leave space around the game upon installation:

Service area: 500 mm

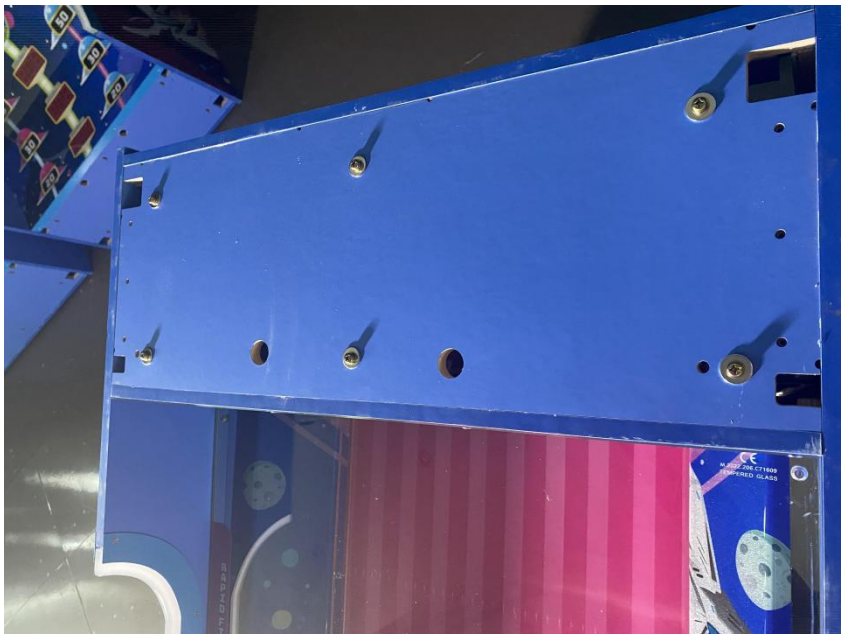


NOTICE

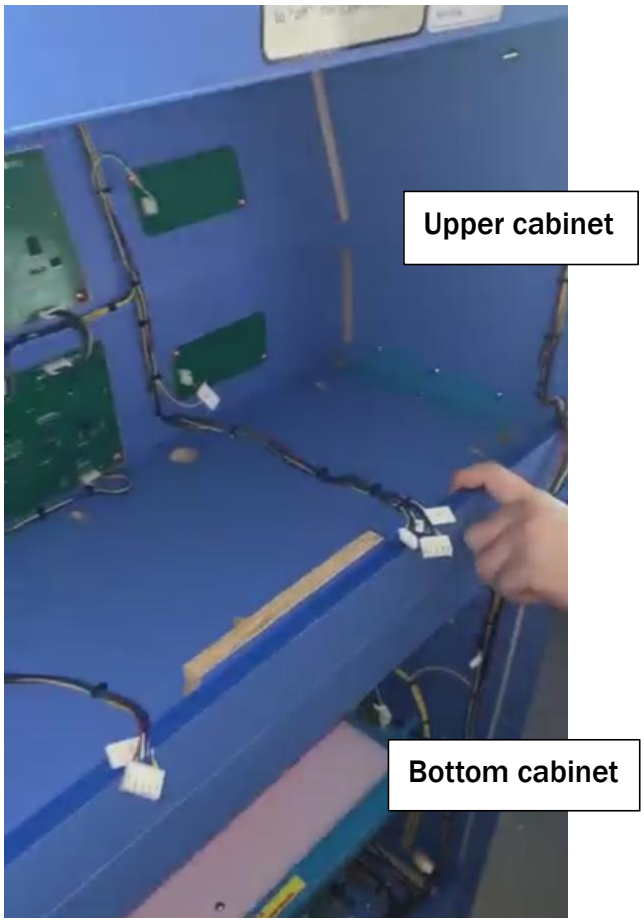
Your unit must be leveled to operate properly.

4.4 Machine Installation

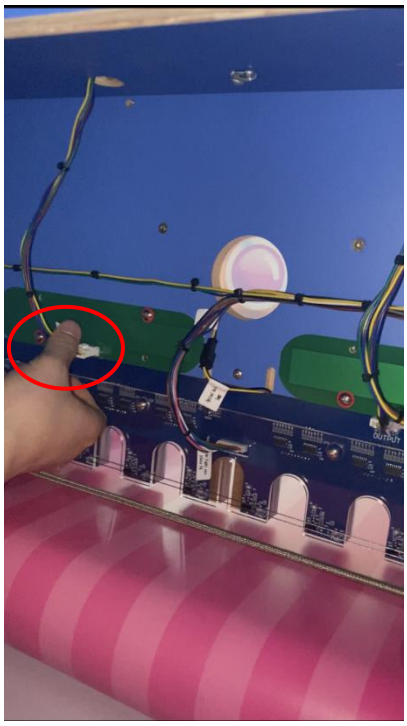
Step 1 Locate Bottom cabinet. Loosen screws on the upper side.

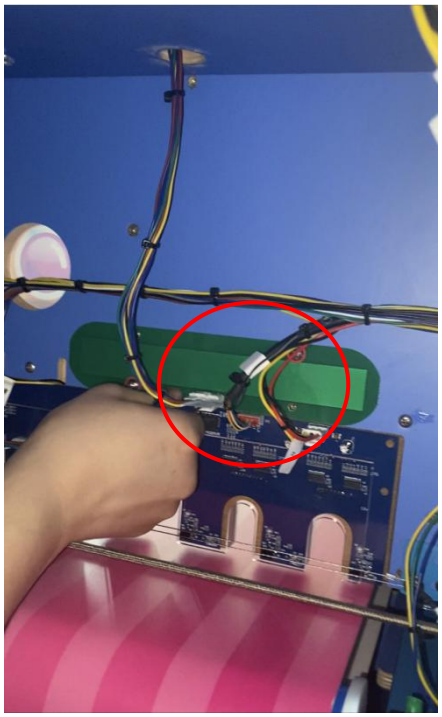


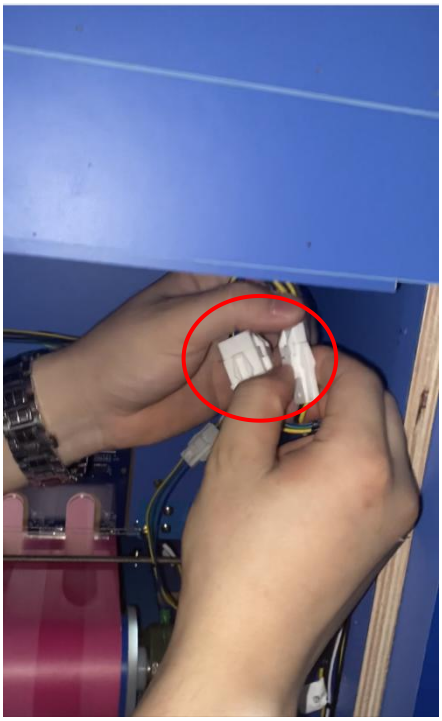
Step 2 Place Upper cabinet to the Bottom cabinet. Utilize screws to secure.



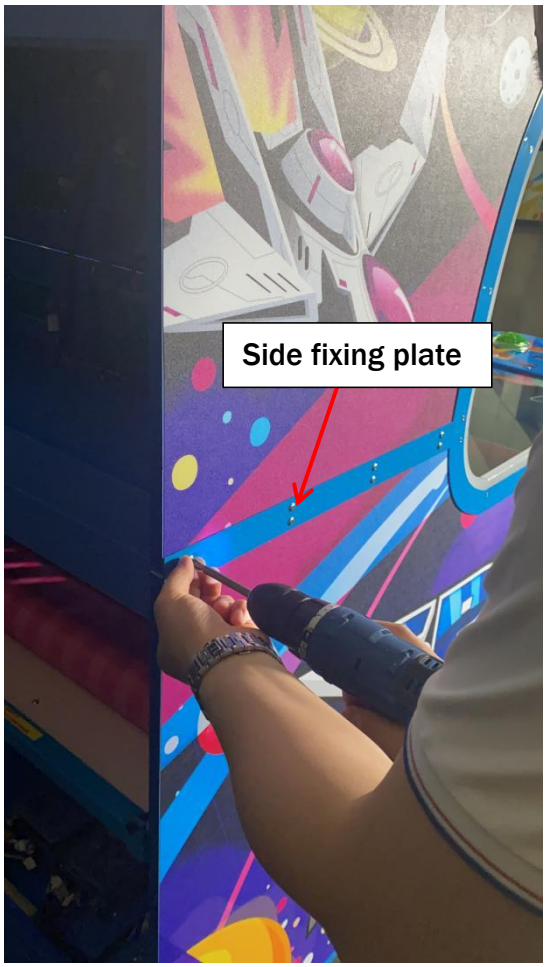
Step 3 Route these connectors to the bottom cabinet through the hole. Connect the connectors as shown below.



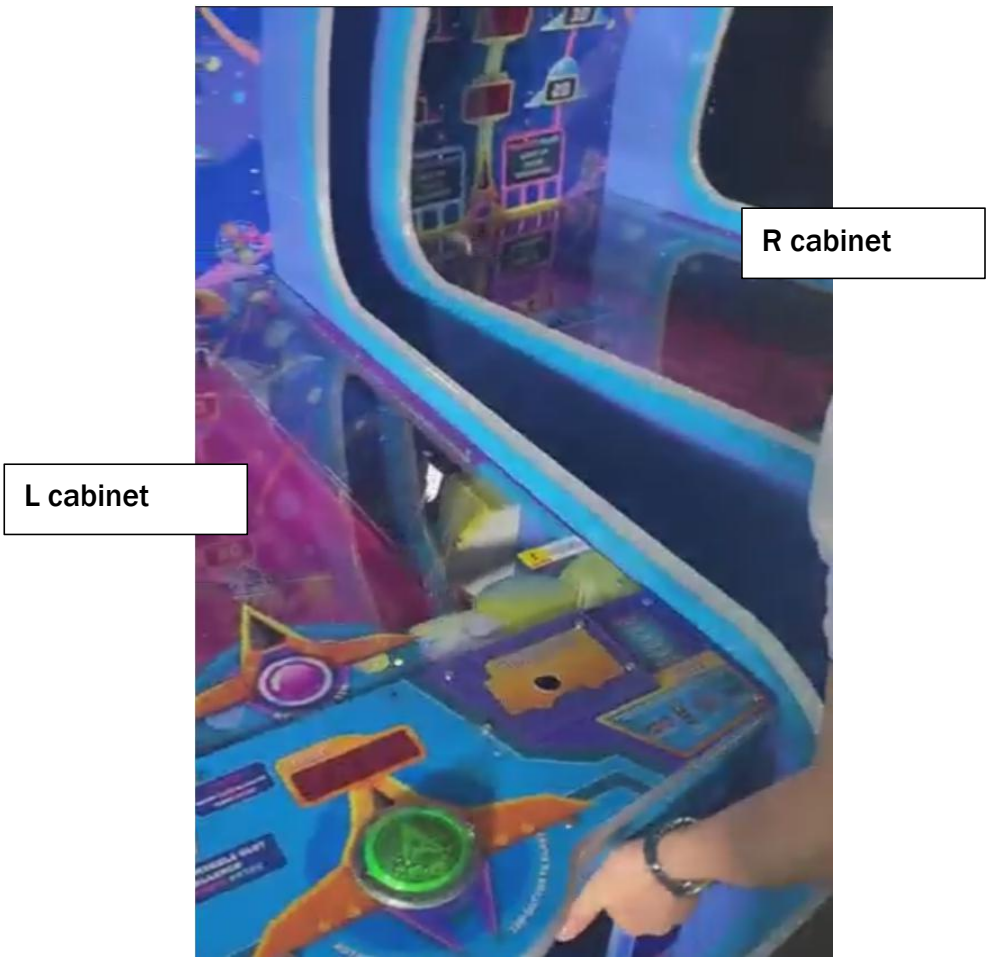




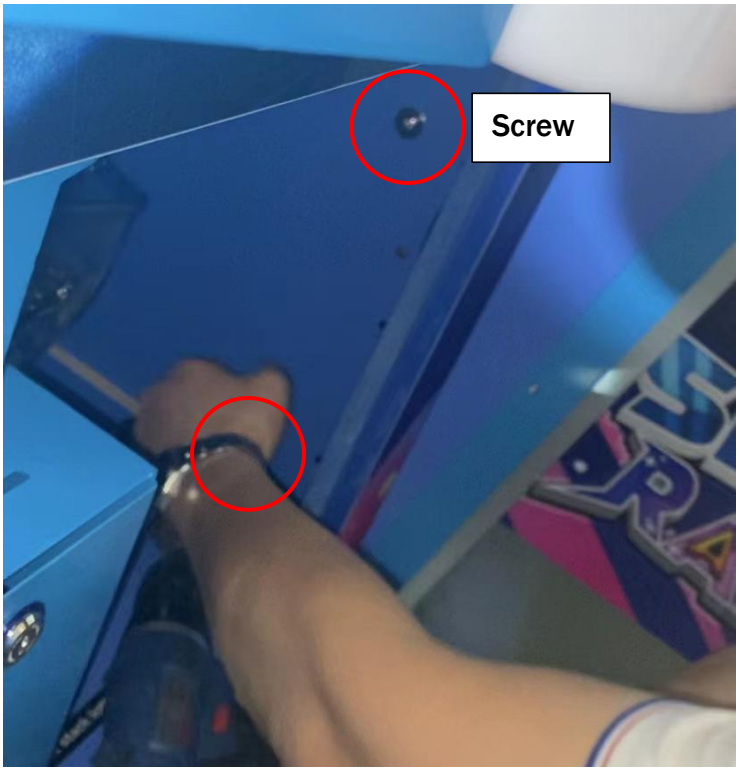
Step 4 Place Side fixing plate to the Cabinet. Utilize screws to secure.
Note: It is the same installation(Step 1-4) of the other side.



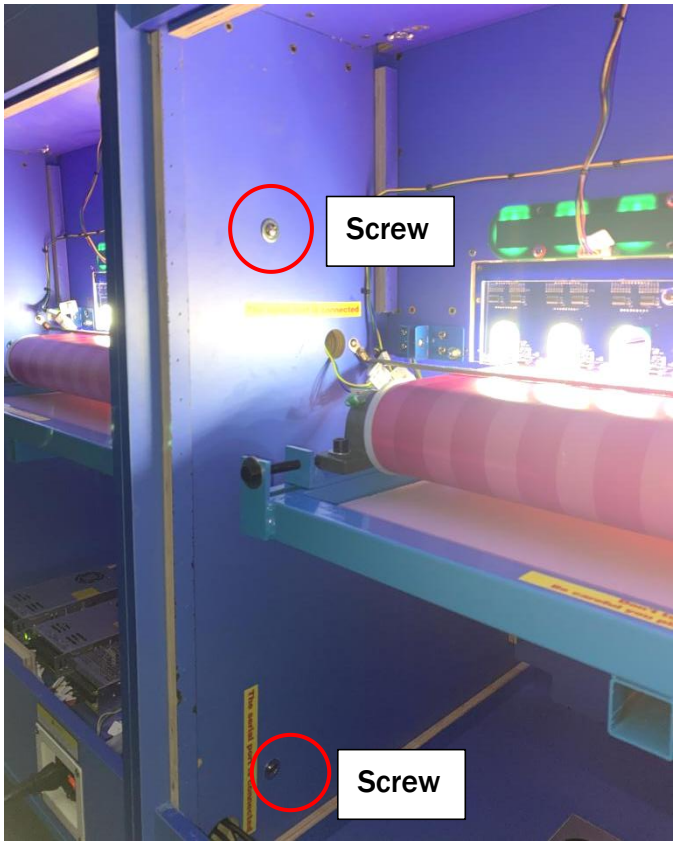
Step 5 Place L&R cabinet together.



Step 6 Open the front door. Utilize screws to secure L&R cabinet.

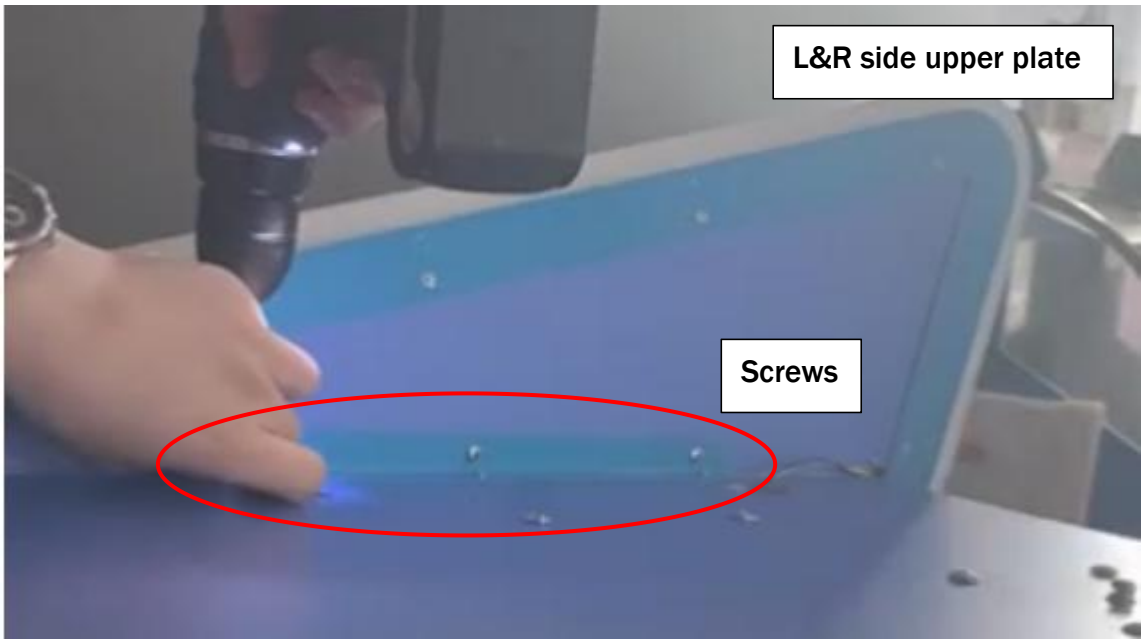


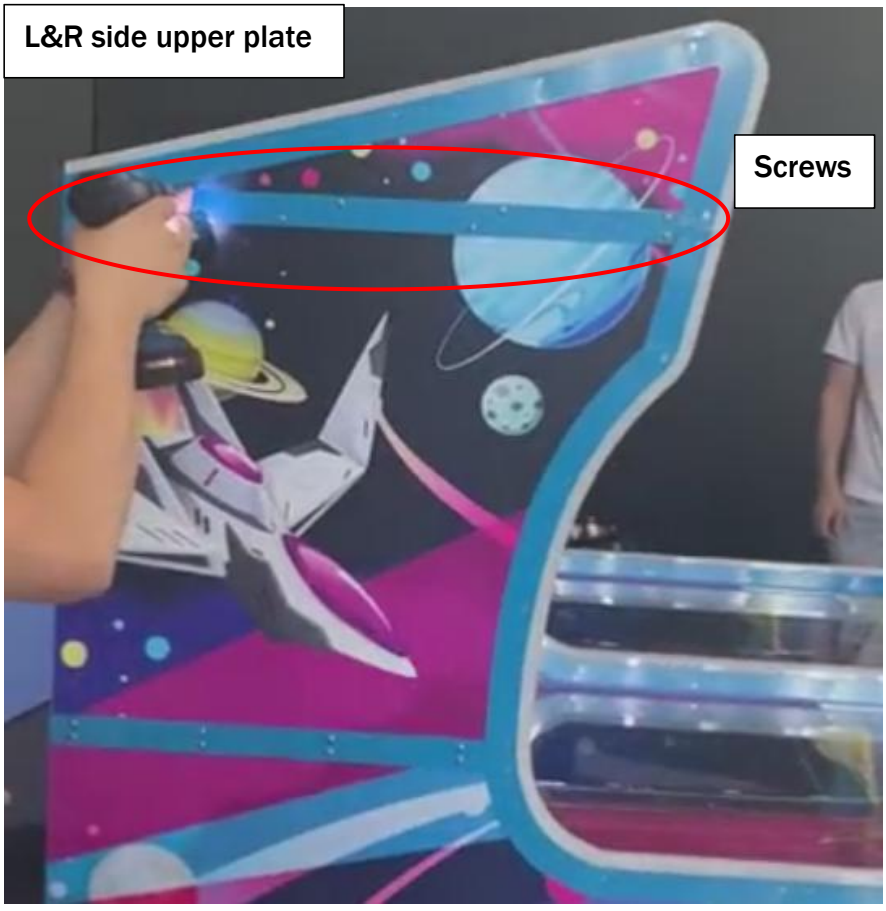
Step 7 Utilize screws to secure L&R cabinet.



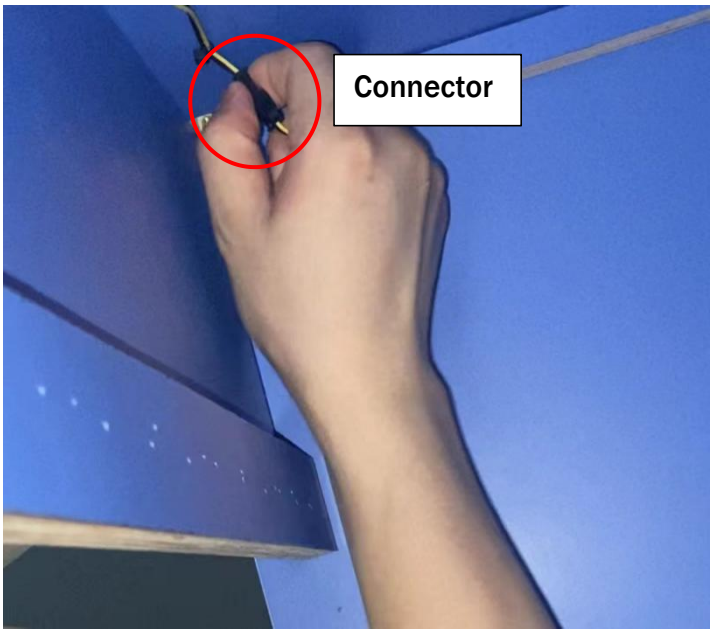
Step 8 Route the R cabinet connector to the L cabinet. Connect the connectors as shown below.

Step 9 Install L&R side upper plate to the top of the cabinet. Utilize fixing plate and screws to secure.

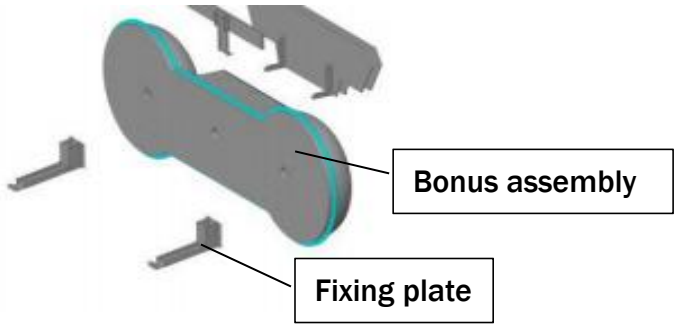




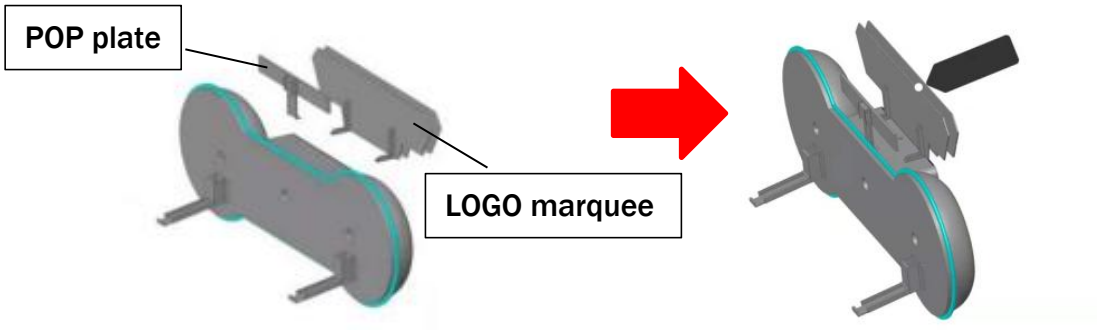
Step 10 Route the connector to the cabinet inside through the hole. Connect the connector.



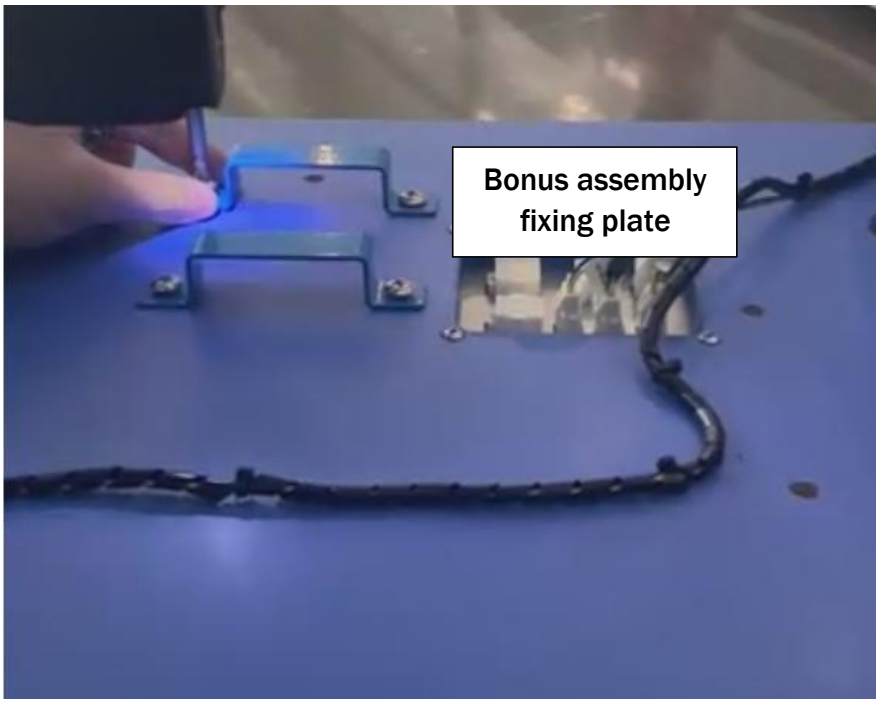
Step 11 Locate Bonus Marquee. Install Fixing plate to the Bonus assembly.



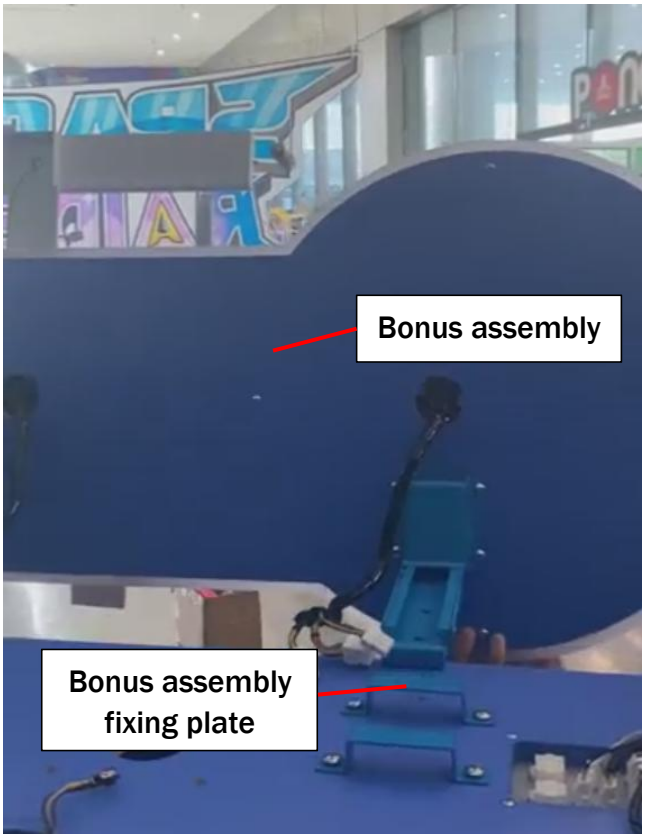
Step 12 Install LOGO marquee,POP plate and fixing plate to the Bonus assembly. Connect the connector.

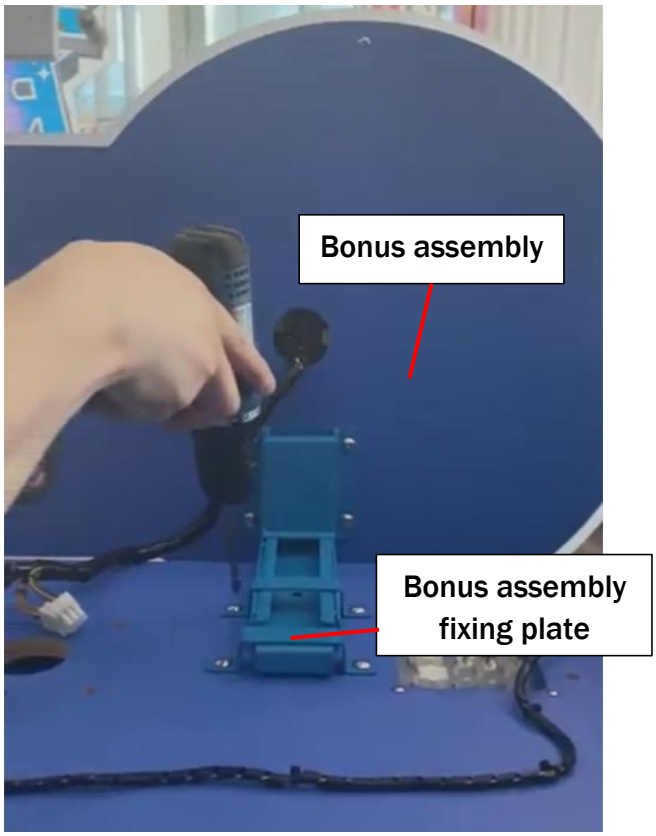


Step 13 Install Bonus assembly fixing plate to the top of the cabinet. Utilize screws to secure a bit.(DO NOT TIGHTEN)

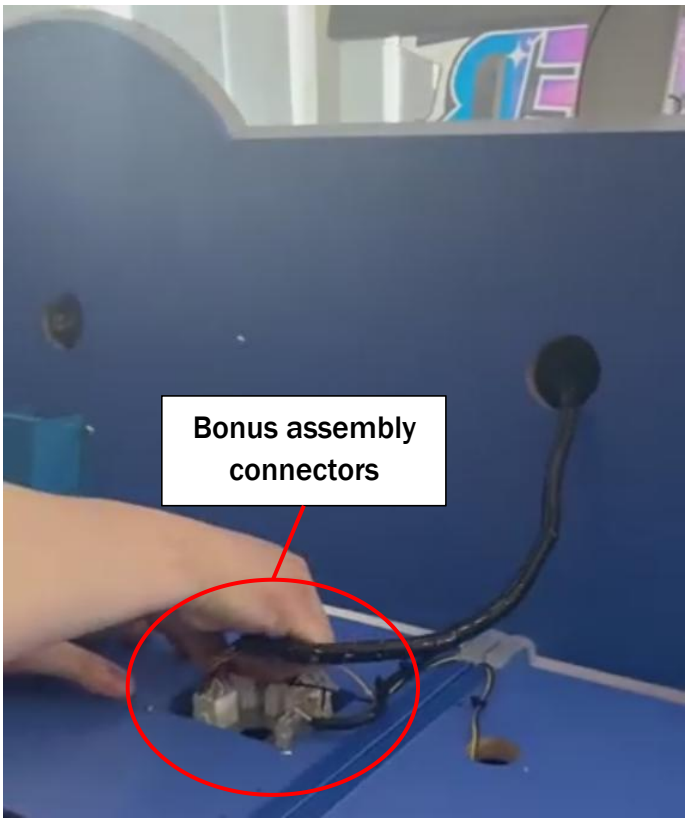


Step 14 Install Bonus assembly to the Cabinet. Secure the Bonus assembly fixing plate.

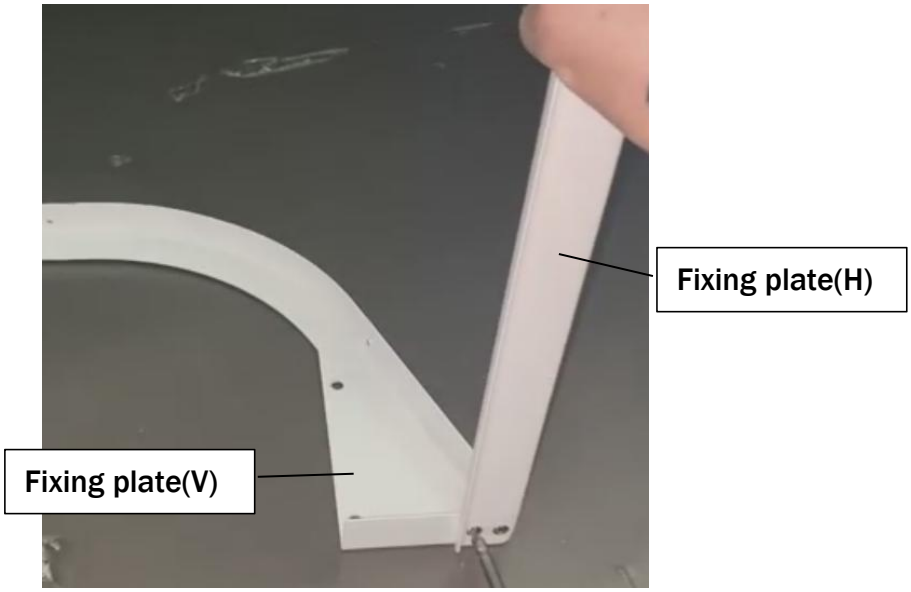




Step 15 Connect the Bonus assembly connectors.

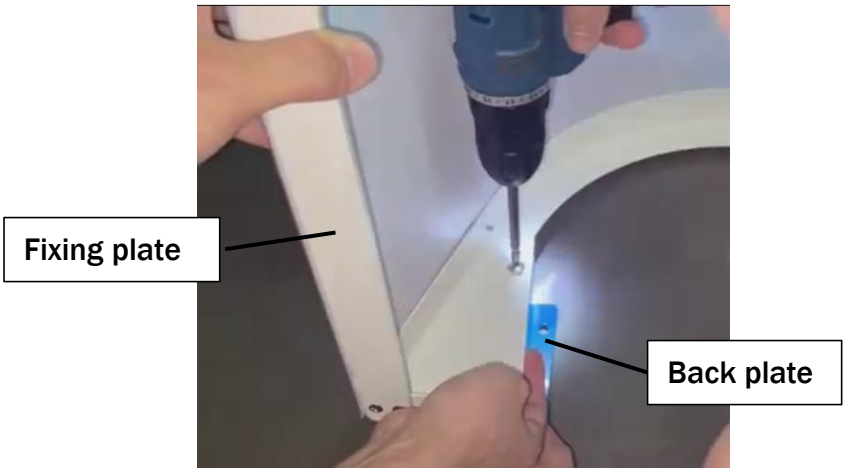


Step 16 Locate Back PC decal. Install Back PC decal fixing plate(V&H) together.



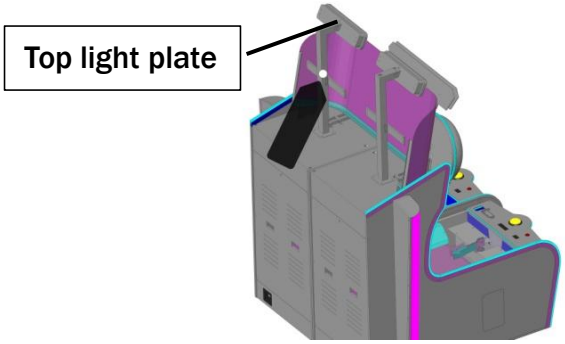
Step 17 Install Back PC decal to the Back PC decal fixing plate(V&H).

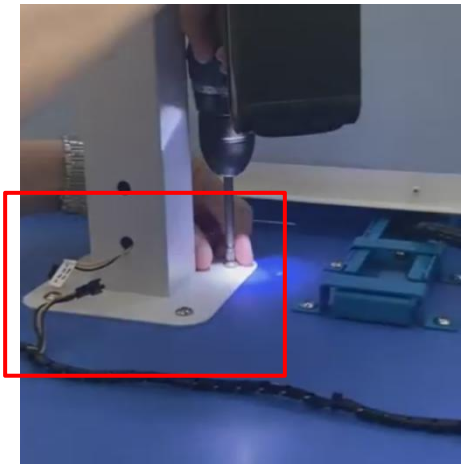
Step 18 Install Back plate to the fixing plate.



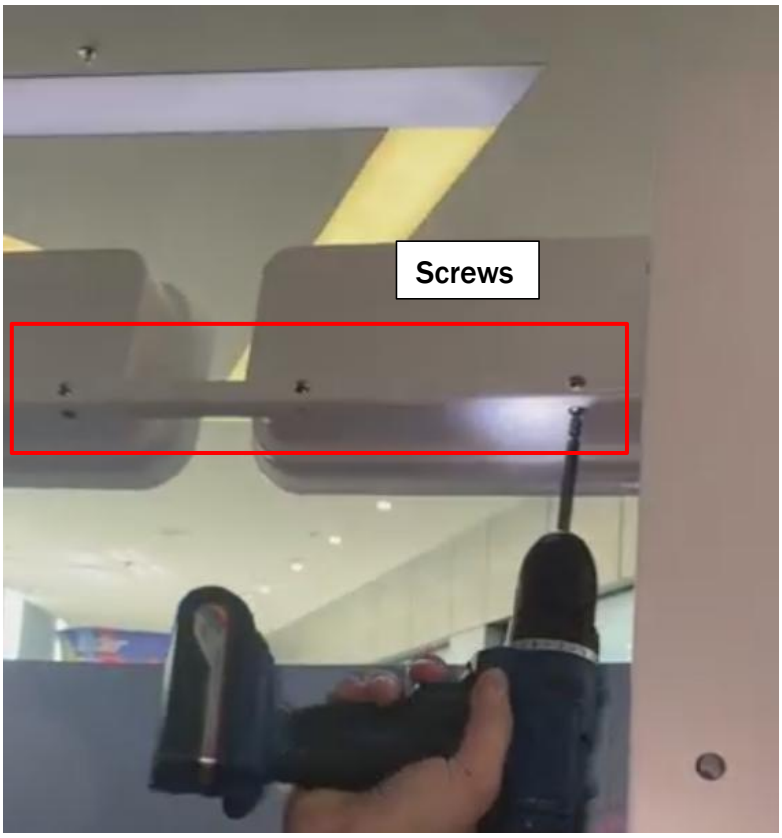
Step 19 Install Back PC decal to the back of the Bonus assembly. Utilize screws to secure.

Step 20 Install Top light plate to the back of the Marquee. Utilize screws to secure.

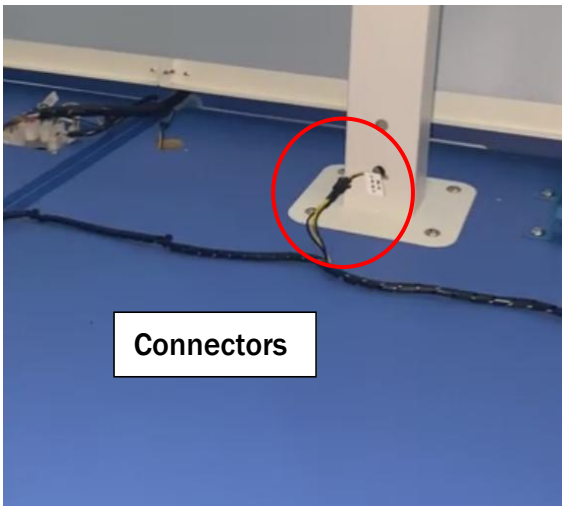


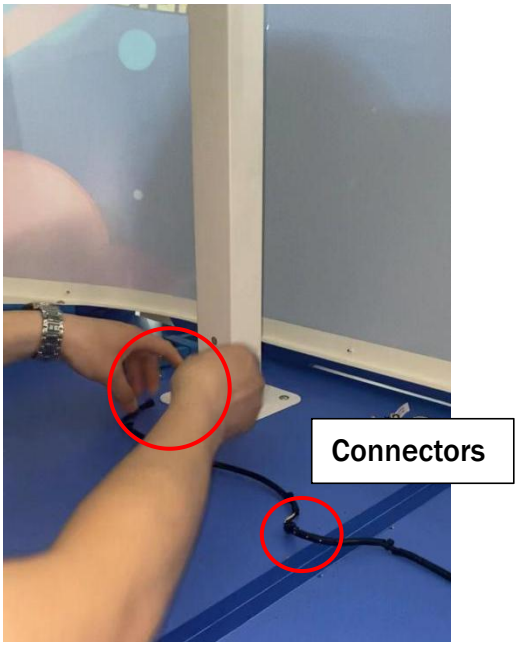


Step 21 Utilize screws to secure L&R top light plate.



Step 22 Connect the connectors.





Finish!

4.5 Card Reader Installation Safety Notice

⚠ Take precaution to assure that all wiring voltages are confirmed prior to installation of card reader. All warranties are void if not properly installed resulting in logic board damage.

Important: This game is pre-wired to AAMA standards. It is highly recommended to utilize this wiring for Card reader installation.

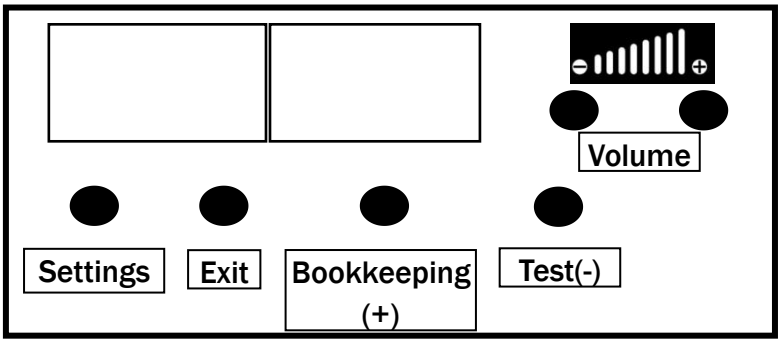
5. HOW TO PLAY

5.1 Insert coins/Tap card to play.
5.2 Rotate to aim and Tap button to blast the tokens.
5.3 Shoot tokens through the slots to earn points, and light up the letter.
5.4 Light up all 4 letters “S-H-I-P” to move up the levels and win more points.
5.5 Shoot tokens through the UFO slot for a chance to win big prize!

5.6 Shoot tokens through the UFO slot to collect UFO rewards and a chance to spin the wheel to win the BONUS!

6. GAME OPTION

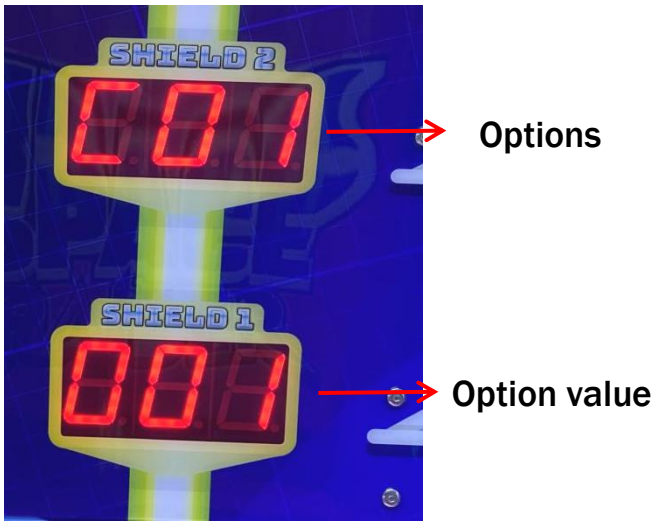
6.1 Adjustment button instruction



Open the coin door and there is a meter panel. Press **Settings** button to enter the setting menu.

Options	Description
Settings	Enter Setting menu/Select options/Confirm
Exit	Exits Setting menu/Back to game
Bookkeeping(+)	Bookkeeping/Parameters +
Test(-)	Turntable arrow test/Machine test/Parameters -

Options shows in the shield 2 display, Option value shows in the shield 1 display.



Audit shows in the Bottom display. Left side show settings, Right side shows bookkeeping.

Please Restart the machine after exit the Settings.

6.2 Game Settings

Options Display	Meanings	Adjustable value	Default	Note
C00	Coins per game	1-20	2	
C01	Scores per ticket	1-10	1	
C02	Ticket patterns	1-5	2	Refer to manual 6.2.1
C08	Mercy ticket	0-10	2	
C18	Turntable score 0	10-800	500	Do not recommend to change here without consulting UNIS factory servicing center. Change settings may cause the machine to be faulty.
C19	Turntable score 1	10-800	50	
C20	Turntable score 2	10-800	200	
C21	Turntable score 3	10-800	100	
C22	Turntable score 4	10-800	300	
C23	Turntable score 5	10-800	100	
C24	Turntable score 6(BONUS)	200-9000	1500	
C25	Turntable score 7	10-800	100	
C30	Bonus prize increase per coin	0-10	1	
C31	Machine No.	0/1		“0” is the host machine. “1” is the sub machine. (0 should be placed in Left,1 should be placed in Right.)
C32	BGM Volume	0-30	22	
C33	Sound Effect Volume	0-30	30	
C34	Factory Reset			Press “Blast” button to reset the machine.

6.2.1 Ticket Pattern

Pattern 1 (about 25 tickets per coin)								
Blue spaceship side					Red spaceship side			
				Turntable bonus				
Level 3 bonus: 50 tickets				UFO Bonus: 100	Level 3 bonus: 50 tickets			
Level 2 bonus: 30 tickets				UFO Bonus: 70	Level 2 bonus: 30 tickets			
Level 1 bonus: 20 tickets				UFO Bonus: 50	Level 1 bonus: 20 tickets			
S	H	I	P		S	H	I	P
6	12	10	8		8	10	12	6

Pattern 2 (about 30 tickets per coin)								
Blue spaceship side					Red spaceship side			
				Turntable bonus				
Level 3 bonus: 50 tickets				UFO Bonus: 150	Level 3 bonus: 50 tickets			
Level 2 bonus: 30 tickets				UFO Bonus: 100	Level 2 bonus: 30 tickets			
Level 1 bonus: 20 tickets				UFO Bonus: 70	Level 1 bonus: 20 tickets			
S	H	I	P		S	H	I	P
6	16	12	8		8	12	16	6

Pattern 3 (about 35 tickets per coin)								
Blue spaceship side					Red spaceship side			
				Turntable bonus				
Level 3 bonus: 50 tickets				UFO Bonus: 200	Level 3 bonus: 50 tickets			
Level 2 bonus: 30 tickets				UFO Bonus: 150	Level 2 bonus: 30 tickets			
Level 1 bonus: 20 tickets				UFO Bonus: 100	Level 1 bonus: 20 tickets			
S	H	I	P		S	H	I	P
6	18	12	10		10	12	18	6

Pattern 4 (about 40 tickets per coin)								
Blue spaceship side					Red spaceship side			
				Turntable bonus				
Level 3 bonus: 50 tickets				UFO Bonus: 300	Level 3 bonus: 50 tickets			
Level 2 bonus: 30 tickets				UFO Bonus: 200	Level 2 bonus: 30 tickets			
Level 1 bonus: 20 tickets				UFO Bonus: 100	Level 1 bonus: 20 tickets			
S	H	I	P		S	H	I	P
6	20	16	12		12	16	20	8

Pattern 5 (about 45 tickets per coin)								
Blue spaceship side					Red spaceship side			
				Turntable bonus				
Level 3 bonus: 50 tickets				UFO Bonus: 300	Level 3 bonus: 50 tickets			
Level 2 bonus: 30 tickets				UFO Bonus: 200	Level 2 bonus: 30 tickets			
Level 1 bonus: 20 tickets				UFO Bonus: 150	Level 1 bonus: 20 tickets			
S	H	I	P		S	H	I	P
10	25	18	16		16	18	25	10

6.3 Test: Testing Machine

Options	Meanings	Description
H00	Shoot tokens test	Press Blast button to test
H01	Ticket out test	Press Blast button to test
H02	Unused	

6.4 Audit

Options	Description
CC00	Total credits
CC01	Total tickets
CC02	Unused
CC03	Unused
CC04	Clear credits&tickets

6.5 Turntable Arrow Test

Press Test button to test the Turntable arrow (Do not press Settings button before).

7. TROUBLESHOOTING

7.1 Common Problem

Please confirm that all connectors fit tightly.

Symptom	Possible Cause	Recommended action
Game will not start	Frame assembly connector is loose.	Check connector.
	Frame assembly fault	Contact with UNIS Service.
Power off	Circuit protector make power SW in off state.	Turn on power SW again. If appeared again and again, machine has anomaly. Please contact with UNIS Service.
Card reader not working	The connector is loose.	Check connector.
	Card reader fault.	Check with card reader manufacturer.
No sound	Low volume	Raise the volume.
	Connector loose.	Check connector.
	Speaker fault.	Check speaker.
	POT installation error.	Install POT correctly.
	POT fault.	Change POT.
	Audio cable problem.	Reconnect the audio cable or change it.
	PC crash.	Restart or system recovery.
	Driver problem	Restart the audio driver.

Note: After replacing component from PC (except for RAM), and replacing monitor, the game should be recovered again with the recovery stick attached to the machine.

If you see following error signs showing on the display, please try the recommended action.

Display	Meanings	Possible Cause	Recommended action
E01	The coin mechanism keeps swinging to the left or right	The limit sensor plate is loose.	Re-fix the limit sensor plate.
		The base limit sensor is faulty	Replace the base limit sensor.
E02	The coin mechanism keeps swinging to the left or right	The limit sensor plate is loose.	Re-fix the limit sensor plate.
		The base limit sensor is faulty	Replace the base limit sensor.
	The coin mechanism stop swinging.	The base limit sensor is blocked.	Check the sensor.
		The rolling motor is faulty.	Replace the motor.

Display	Meanings	Possible Cause	Recommended action
E03	Coins enter the hole, which cannot be detected.	The hole sensor is faulty.	Replace the hole sensor.
	The hole flash automatically and tickets out.	There is a coin stuck in the hole.	Open the back door to clean the coin.
	Always keep giving out tickets	Poor contact.	Reconnect the connector.
E04	The wheel arrow stop turning.	The wheel motor is faulty.	Replace the wheel motor.
		The wheel motor detect sensor is faulty.	Replace the wheel motor detect sensor.
		Connector became loose during transport	Check connector.
	The wheel arrow turns wrong.	Arrow is offset.	Check whether the center axis of the arrow is offset.
E05	No coin	Launching coin motor failure.	Replace launching coin motor.
	Keep giving out coins	Launching coins detect sensor is faulty.	Replace launching coin detect sensor.
E06	No tickets out or keep giving out tickets.	Ticket dispenser is jammed.	Clean the ticket dispenser.
		Ticket dispenser is faulty.	Replace the ticket dispenser.
		Ticket dispenser connector not linking to the mainboard.	Check connector.
		Out of ticket.	Refill the ticket and press ticket reset button.
E07	Bottom swing motor L limit sensor is faulty.	Connector became loose during transport.	Check connector.
		The sensor is faulty.	Replace the sensor.
		Motor drive board is faulty.	Replace the Motor drive board.
E08	Bottom swing motor R limit sensor is faulty.	Connector became loose during transport.	Check connector.
		The sensor is faulty	Replace the sensor.
		Motor drive board is faulty.	Replace the Motor drive board.

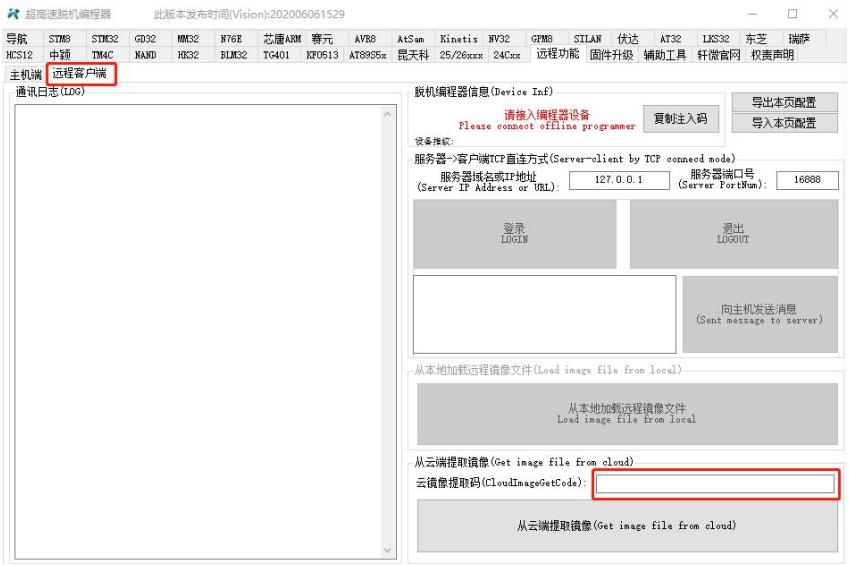
7.2 How To Download New Program & Update

Note: Please contact with UNIS before update

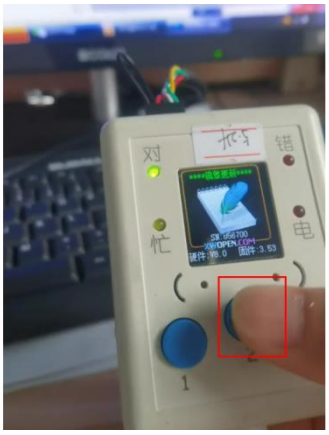
Step 1. Copy “Downloader” software to the desk;

Step 2. Double click the“Downloader” software, will see below interface, click circled words which is to connect the programmer;

Step 3. Click on circled item on the left, enter the “Cloud Image Code”;

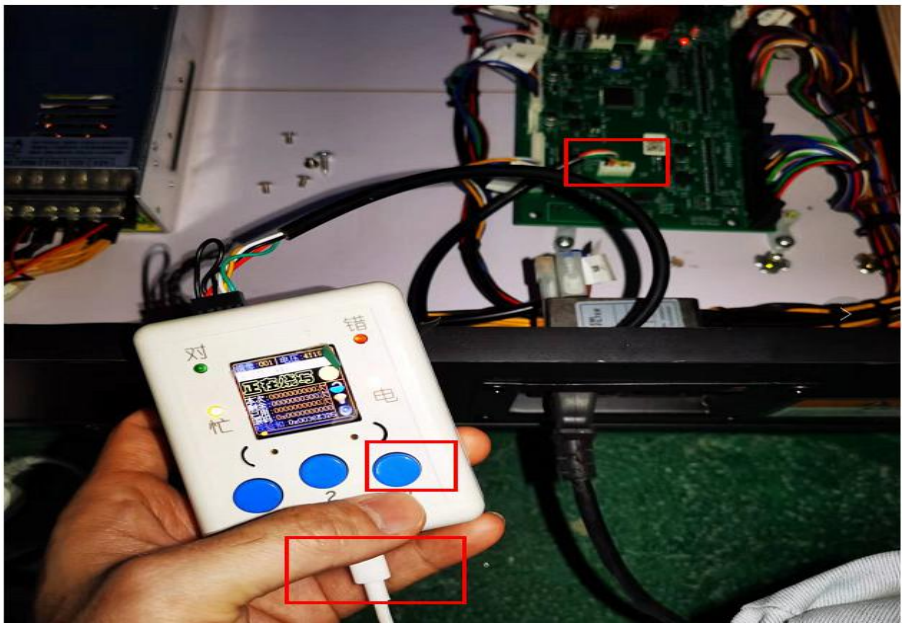


Step 4. Connect the programmer with computer via connection cable, press No.2 blue button for several seconds until below image is showed on screen;



Step 5. Click “Get image file from cloud”, download complete;

Step 6. Powering on programmer with an adapter or charger, connect it with main board via programming cable as below picture shows, No.1 and No.2 blue button is to select correct program, No.3 blue button is to do programming.



8. MAINTENANCE & INSPECTION

8.1 Safety Check

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

1. Test game before operation each day.
2. Conduct monthly routine checks of game components to ensure good working condition.
3. Check the machine regularly for dust and clean when necessary.

Note: Parts and components require preventative maintenance to maintain proper operation.

8.2 Handling Precautions

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

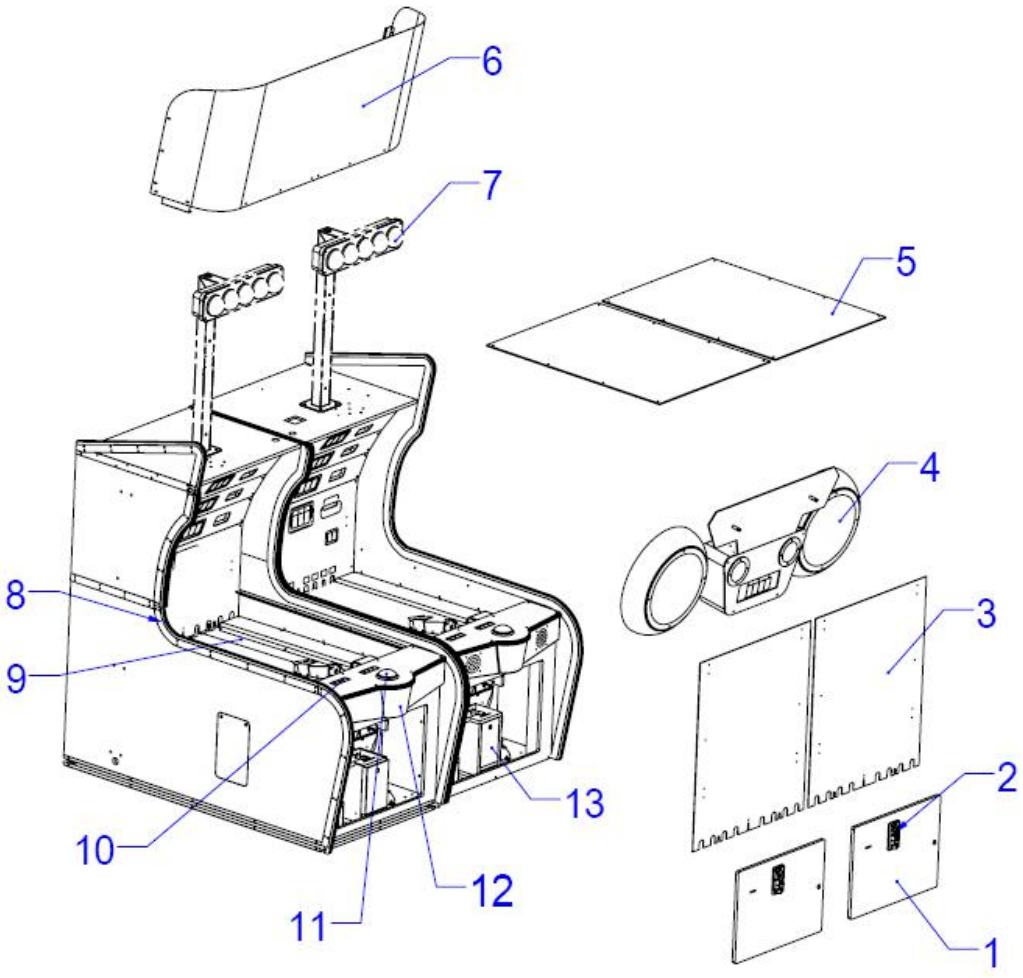
Inappropriate handling running counter to the cautionary matters can cause personal injury or damage to the machine.

⚠ NOTICE

We do not recommend using power tools as they may cause damage.

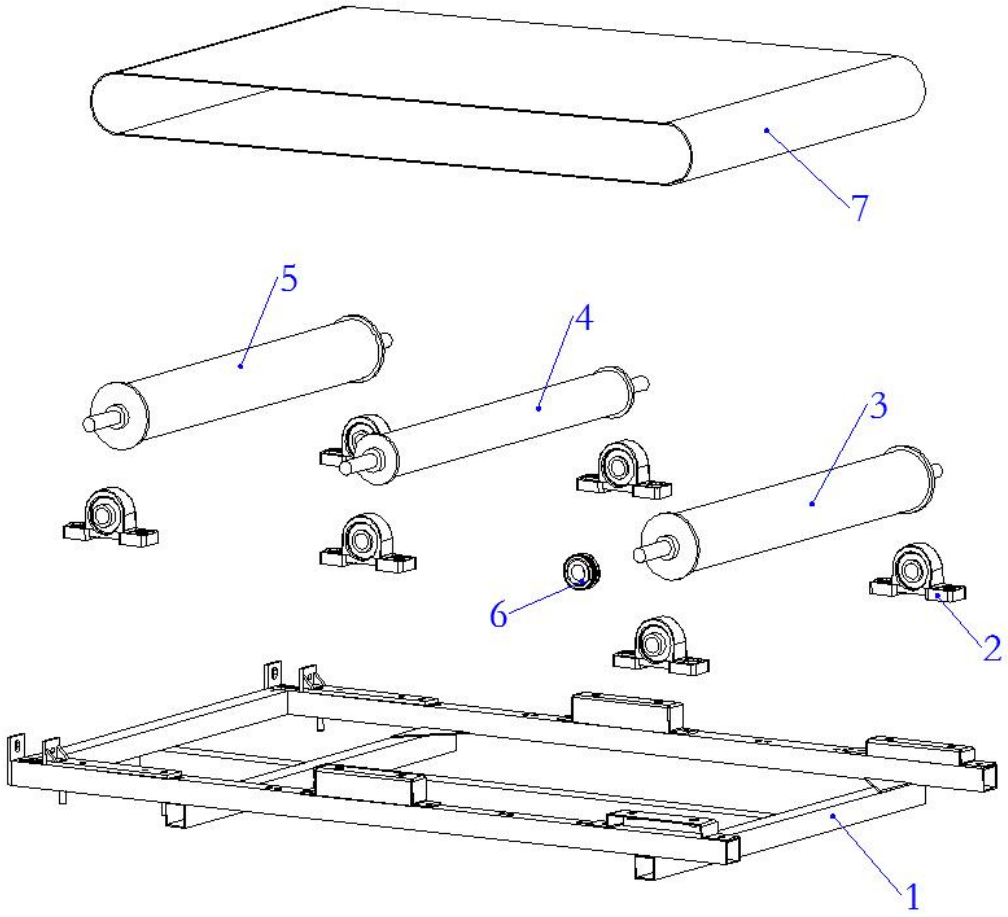
9. OVERALL CONSTRUCTION

9.1 General Assembly



No.	Part No.	Code No.	Name	Qty
1	S187-0216-00	EY20230219J016	Front door board	2
2	S187-0628-00	GMP-WGJ11	Coin mechanism	2
3	S187-0324-00	20541804C009	Sensor plastic	2
4	S187-0305-00	25600000116	Turntable decal	2
5	S187-0644-00	GMP-WGJ27	Glass	2
6	S187-0314-00	25600000077	Header PC	1
7	S187-0601-00	GMP-LED01	Header white light	1
8	S187-0316-00	25600000093	Side white plastic 1	2
9	S187-0642-00	GMP-WGJ25	White belt	2
10	S187-0408-00	ZJ230222-008	Control panel display(coin)	2
11	S187-0630-00	GMP-WGJ13	Button	2
12	S187-0618-00	GMP-WGJ01	Control panel assembly	2
13	S187-0152-00	XSY2302-052	Coin box bracket	2

9.2 Belt Assembly



No.	Part No.	Code No.	Name	Qty
1	S187-0169-00	XSY2302-069	Belt mechanism bracket	1
2	S187-0501-00	XZH230222-001	Bearing plate	6
3	S187-0507-00	XZH230222-007	Motor front rolling nylon	1
4	S187-0509-00	XZH230222-009	Mid rolling nylon	1
5	S187-0508-00	XZH230222-008	Back rolling nylon	1
6	S187-0510-00	XZH230222-010	Belt motor driving wheel(big)	1
7	S187-0642-00	GMP-WGJ25	White belt	1

9.3 Decal Part

1

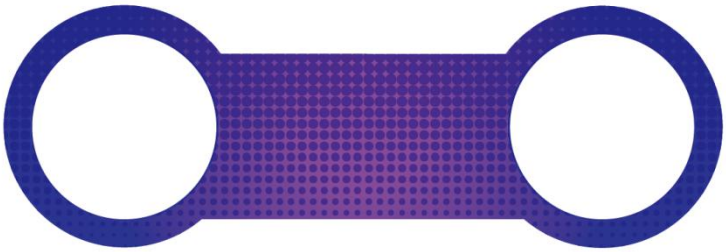
2

No.	Part No.	Code No.	Name	Qty
1	S187-0301-00	20511605D019	Control panel decal	2
2	S187-0329-00	20541804C018	Door decal	2

1

2

No.	Part No.	Code No.	Name	Qty
1	S187-0303-00	25600000111	Upper PC board	2
2	S187-0304-00	25600000112	Bottom PC board	2



1

2

3

500
100
BONUS
100
500
50
200
100

4

5

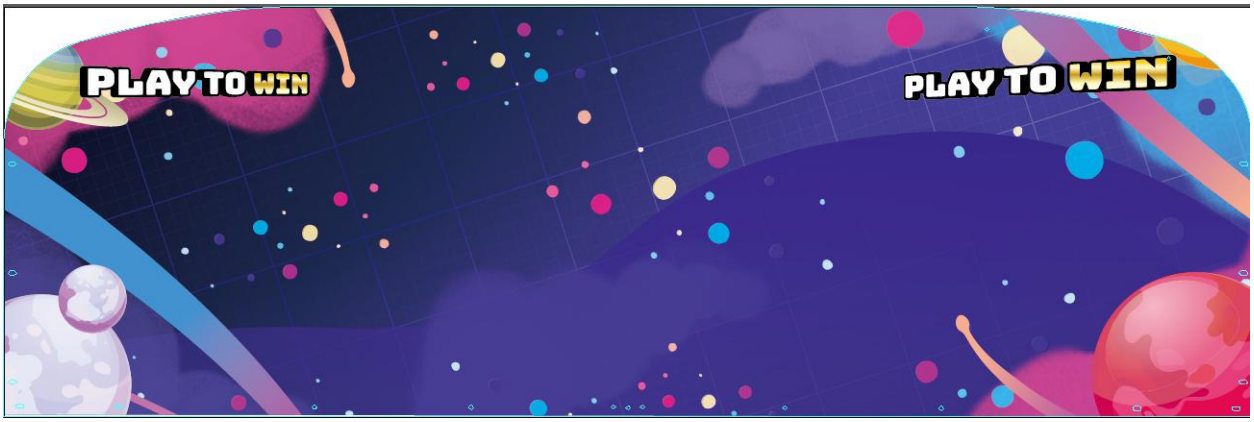
6

BONUS
SPIN BONUS TO
WIN

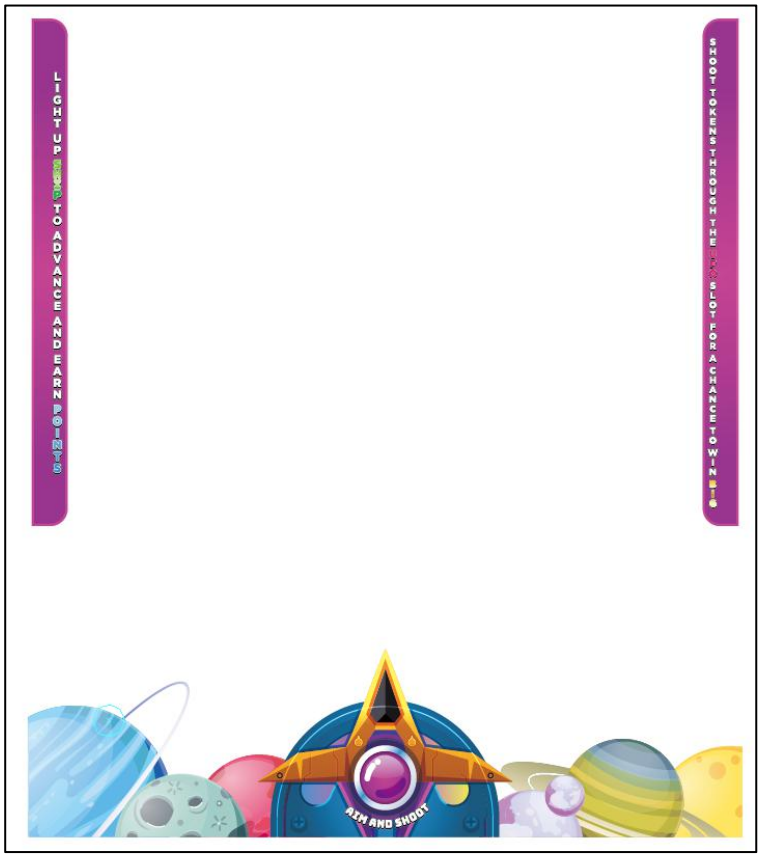
7

BONUS
SPIN BONUS TO
WIN

8



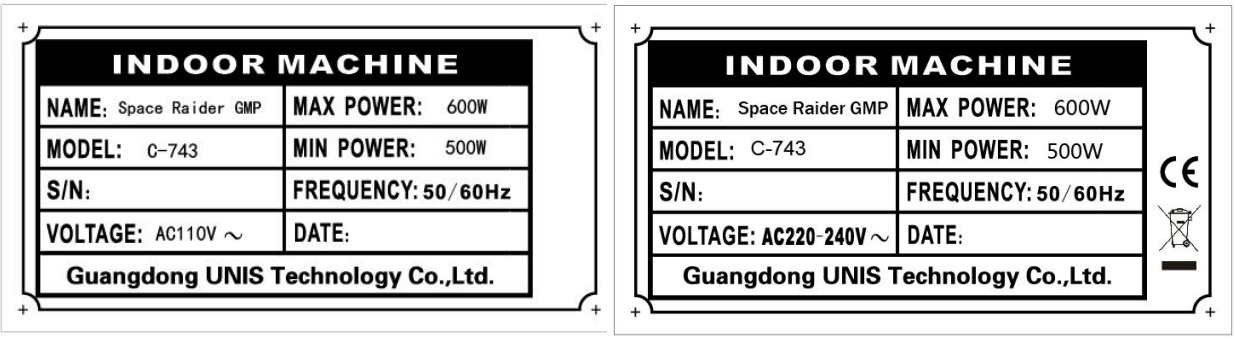
9



10

11

No.	Part No.	Code No.	Name	Qty
1	S187-0310-00	25600000057	Plastic cover	1
2	S187-0306-00	25600000016	Round decal	2
3	S187-0308-00	25600000037	Light plastic	2
4	S187-0305-00	25600000116	Turntable decal	2
5	S187-0307-00	25600000036	Cabinet side plastic	2
6	S187-0307-00	25600000036	Cabinet side plastic	2
7	S187-0309-00	25600000042	Top back decal	1
8				
9	S187-0314-00	25600000077	Header PC	1
10	S187-0311-00	25600000067	Glass decal	2
11	S187-0312-00	25600000071	Belt decal	2



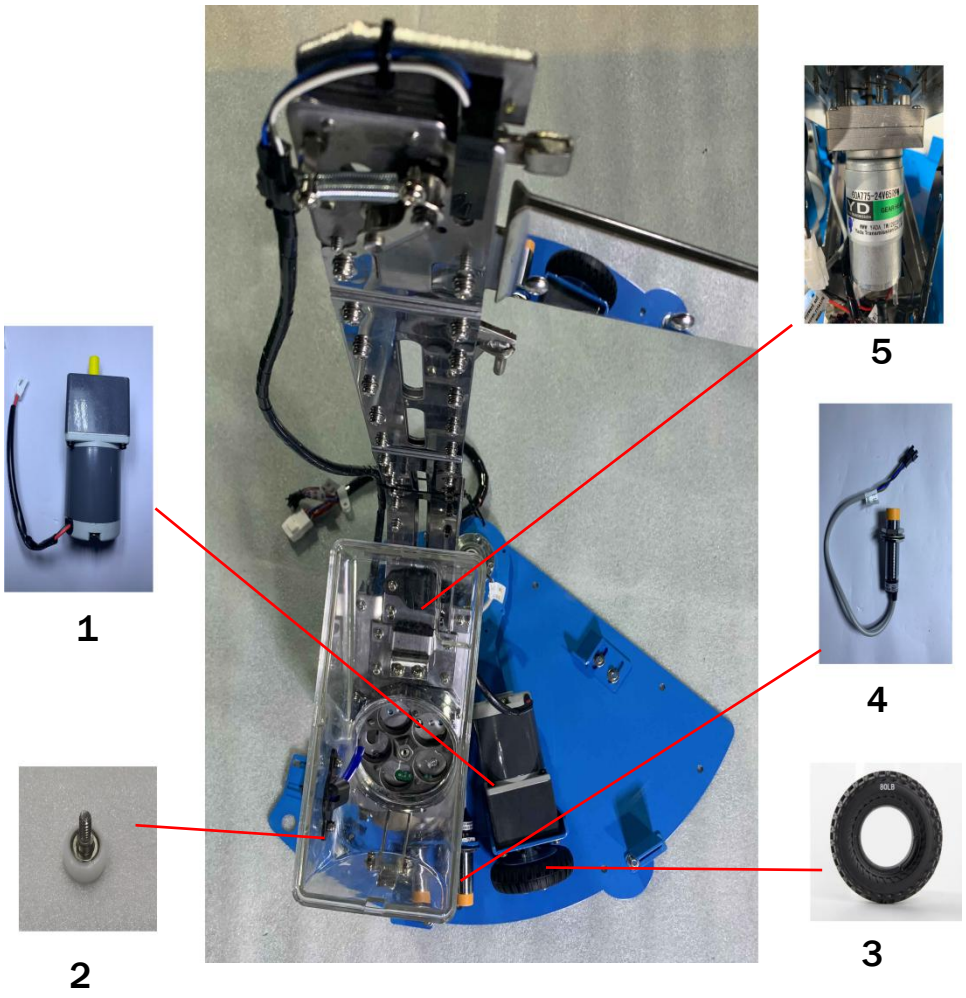
1

2

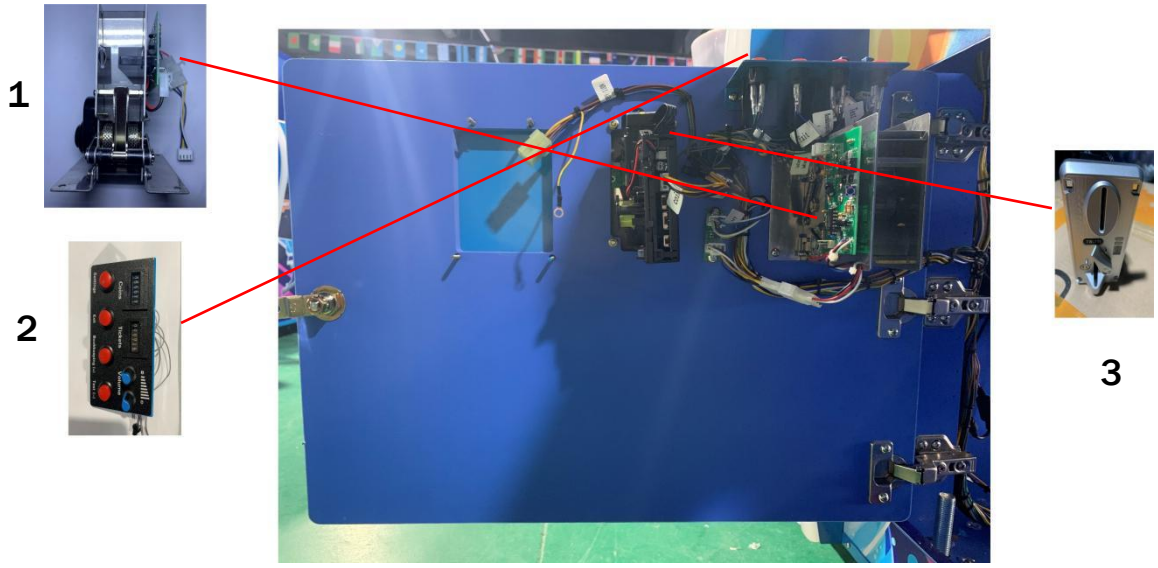
No.	Part No.	Code No.	Name	Qty
1	S187-0332-00	20541804C024	Nameplate	1
2	S187-0333-00	20541804C025	Warning decal 2	1
	S187-0334-00	20541804C026	Warning decal 3	1
	S187-0335-00	20541804C027	Warning decal 4	1

9.4 Electrical Component

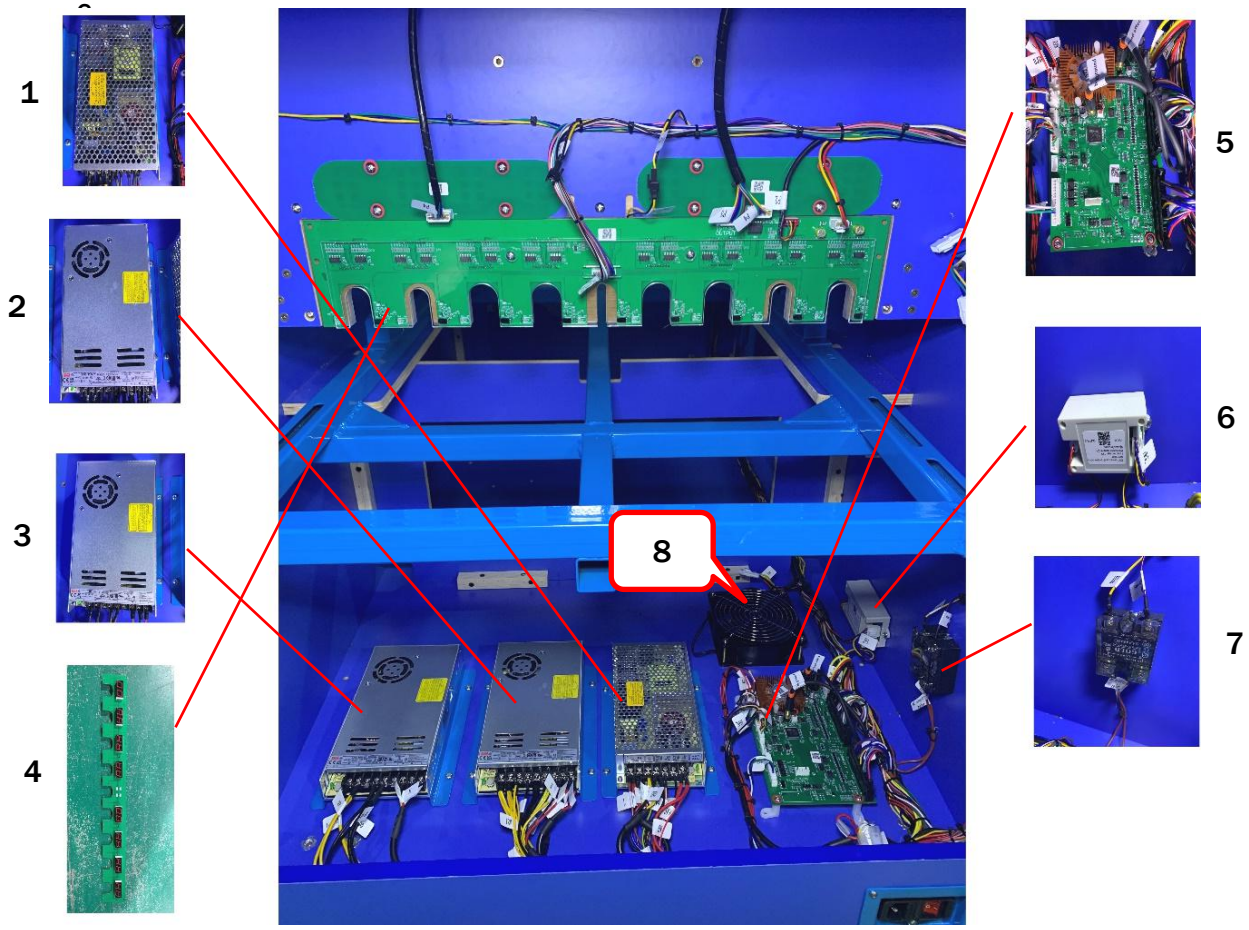
No.	Part No.	Code No.	Name	Qty
1	S187-0601-00	GMP-LED01	Header white light	1
2	S187-0602-00	GMP-LED02	Bottom side white light	4
3	S187-0603-00	GMP-LED03	Top side white light	3
4	S187-0604-00	GMP-LED04	Middle side white light	2
5	S187-0605-00	GMP-LED05	Top spotlight	2
6	S187-0606-00	GMP-LED06	Control panel light	2
7	S187-0607-00	GMP-LED07	Bottom light	2
8	S187-0608-00	GMP-LED08	Turntable light	2
9	S187-0609-00	GMP-LED09	Prizing light	2
10	S187-0610-00	GMP-LED10	Control panel white light	2
11	S187-0611-00	GMP-LED11	Sensor hole light	2
12	S187-0612-00	GMP-LED12	Belt light	8
13	S187-0613-00	GMP-LED13	White light 1	2
14	S187-0614-00	GMP-LED14	White light 2	2
15	S187-0615-00	GMP-LED15	Display side light	3
16	S187-0616-00	GMP-LED16	AL slot light	2
17	S187-0617-00	GMP-LED17	BONUS header light	1



No.	Part No.	Code No.	Name	Qty
1	S187-0651-00	GMP-WGJ34	L&R motor	2
2	S187-0633-00	GMP-WGJ16	White wheel	2
3	S187-0635-00	GMP-WGJ18	Black wheel	2
4	S187-0637-00	GMP-WGJ20	L&R sensor	4
5	S187-0629-00	GMP-WGJ12	Up-coin motor	2

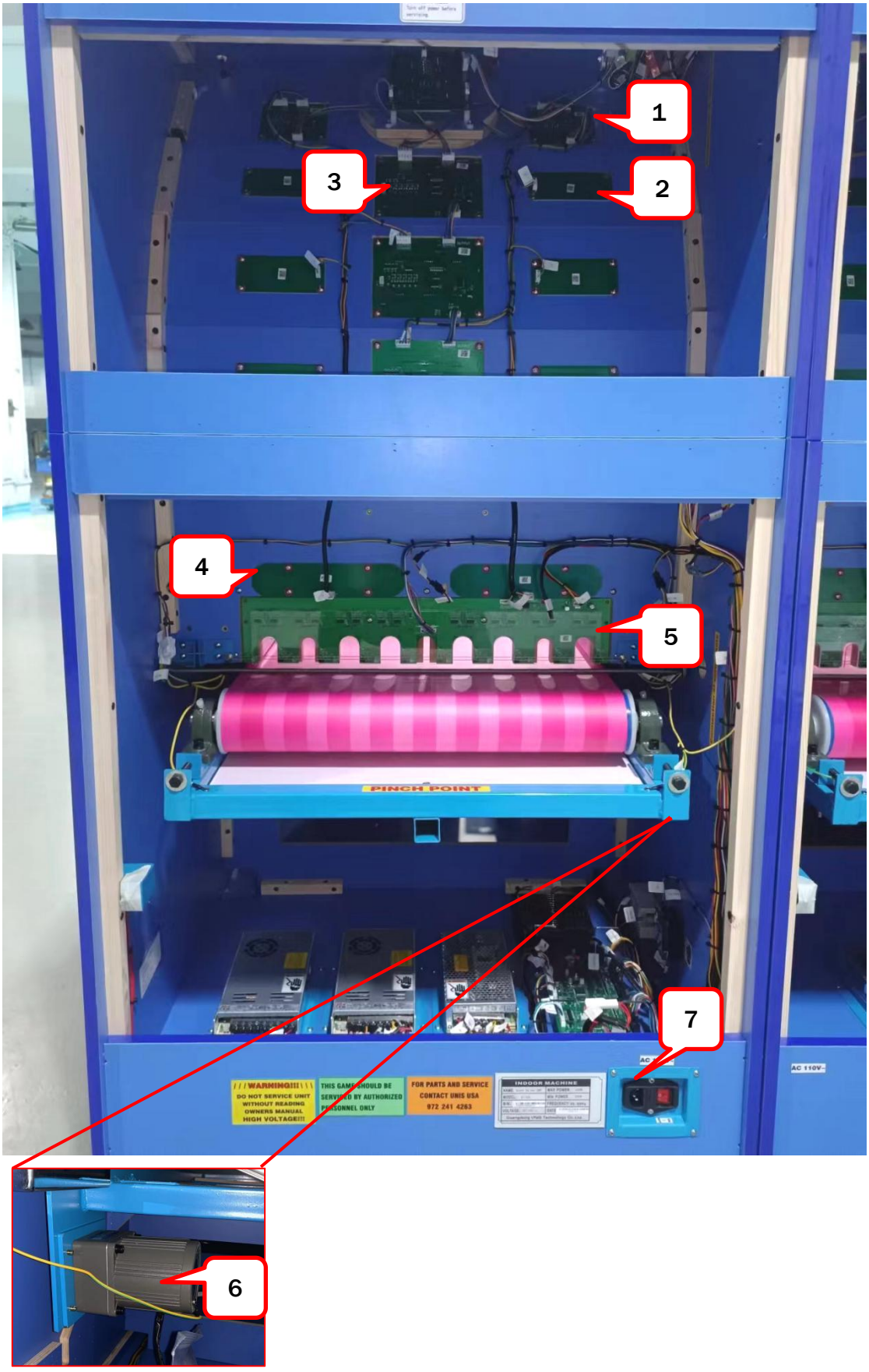


No.	Part No.	Code No.	Name	Qty
1	S187-0620-00	GMP-WGJ03	Red button	8
	S187-0621-00	GMP-WGJ04	Counter	4
2	S187-0627-00	GMP-WGJ10	Ticket dispenser	2
3	S187-0628-00	GMP-WGJ11	Coin mechanism	2



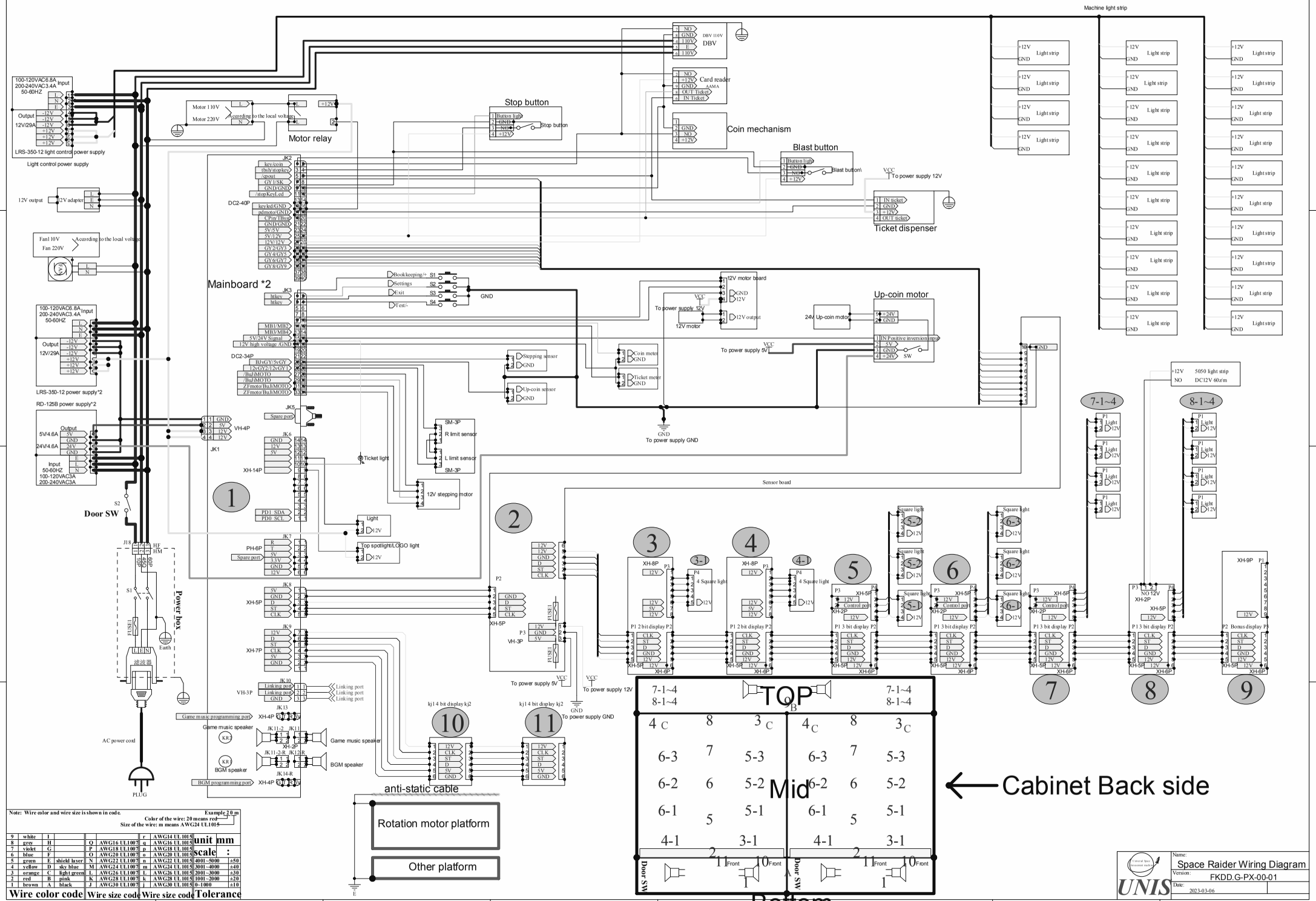
No.	Part No.	Code No.	Name	Qty
1	S187-0648-00	GMP-WGJ31	Power supply(12V)	1
2	S187-0649-00	GMP-WGJ32	Power supply(24V+5V)	1
3	S187-0649-00	GMP-WGJ32	Power supply(24V+5V)	1
4	S187-0410-00	ZJ230222-010	Goal sensor board	2
5	S187-0411-00	ZJ230222-011	Main control board	2
6	S187-0407-00	ZJ230222-007	Motor drive board	2
7	S187-0645-00	GMP-WGJ28	Relay	2
8	S187-0625-00	GMP-WGJ08	Fan	2
	S187-0626-00	GMP-WGJ09	Fan net	2

No.	Part No.	Code No.	Name	Qty
1	S187-0630-00	GMP-WGJ13	Button	2
2	S187-0622-00	GMP-WGJ05	4" speaker	1
	S187-0623-00	GMP-WGJ06	4" speaker net	1
3	S187-0408-00	ZJ230222-008	Control panel display(coin)	2
4	S187-0409-00	ZJ230222-009	Control panel display(ticket)	2
5	S187-0403-00	ZJ230222-003	Turntable light board	16
	S187-0619-00	GMP-WGJ02	Turntable pin white plastic	2
6	S187-0401-00	ZJ230222-001	BONUS display	1


1
2
3
4
5
6
7
PINCH POINT
INDOOR MACHINE
AC 110V~

No.	Part No.	Code No.	Name	Qty
1	S187-0405-00	ZJ230222-005	Level display	4
2	S187-0406-00	ZJ230222-006	Level light board	12
3	S187-0404-00	ZJ230222-004	UFO display	8
4	S187-0402-00	ZJ230222-002	SHIP light board	4
5	S187-0410-00	ZJ230222-010	Goal sensor board	2
6	S187-0650-00	GMP-WGJ33	Belt motor	2
7	S187-0647-00	GMP-WGJ30	Filter	1

www.unistechnology.com



Note: Wire color and wire size is shown in code. Example 2 0 m
Color of the wire: 20 means red
Size of the wire: m means AWG24 UL1015

9	white	I				r	AWG14 UL1015	unit	mm
8	grey	H		Q	AWG16 UL1007	q	AWG16 UL1015		
7	violet	G		P	AWG18 UL1007	p	AWG18 UL1015	scale	:
6	blue	F		O	AWG20 UL1007	o	AWG20 UL1015		
5	green	E	shield layer	N	AWG22 UL1007	n	AWG22 UL1015	4001~5000	±50
4	yellow	D	sky blue	M	AWG24 UL1007	m	AWG24 UL1015	3001~4000	±40
3	orange	C	light green	L	AWG26 UL1007	L	AWG26 UL1015	2001~3000	±30
2	red	B	pink	K	AWG28 UL1007	k	AWG28 UL1015	1001~2000	±20
1	brown	A	black	J	AWG30 UL1007	j	AWG30 UL1015	0~1000	±10
Wire color code				Wire size code		Wire size code		Tolerance	

Name:	Space Raider Wiring Diagram
Version:	FKDD.G-PX-00-01
Date:	2023-03-06

UNIS