

COCONUT BASH



IMPORTANT



Be Sure
to Read this
Manual
Before Use

UIS[®]
UNIVERSAL SPACE

www.universal-space.com

NOTE: Some portions of assembly may require additional assistance.

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

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Thank you for purchasing **Coconut Bash**. 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: 200W

Max. Power consumption: 320W

Single ver. dimension: W44.5×D122.2×H105.2(in) W1132×D3105×H2672 (mm)

Twin ver. dimension: W89.1×D122.2×H112.3(in) W2264×D3105×H2854 (mm)

Single ver. weight: Approximately 970 lb

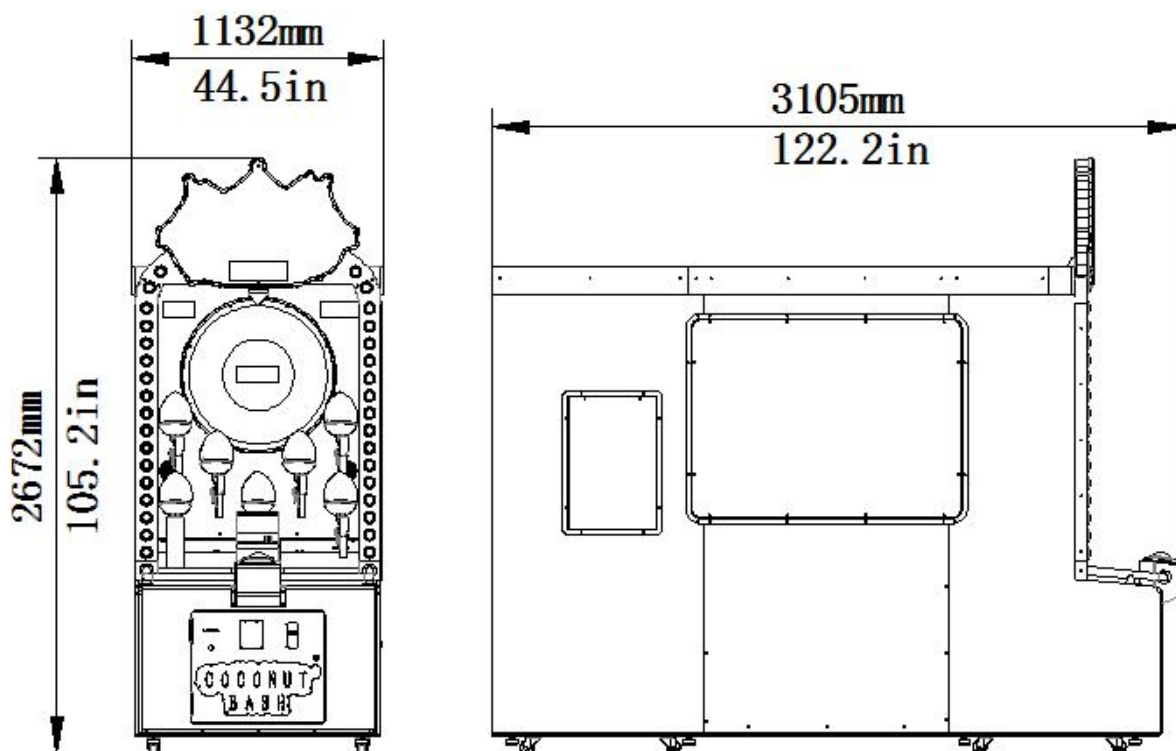
Part No: C146

Model No: A-414

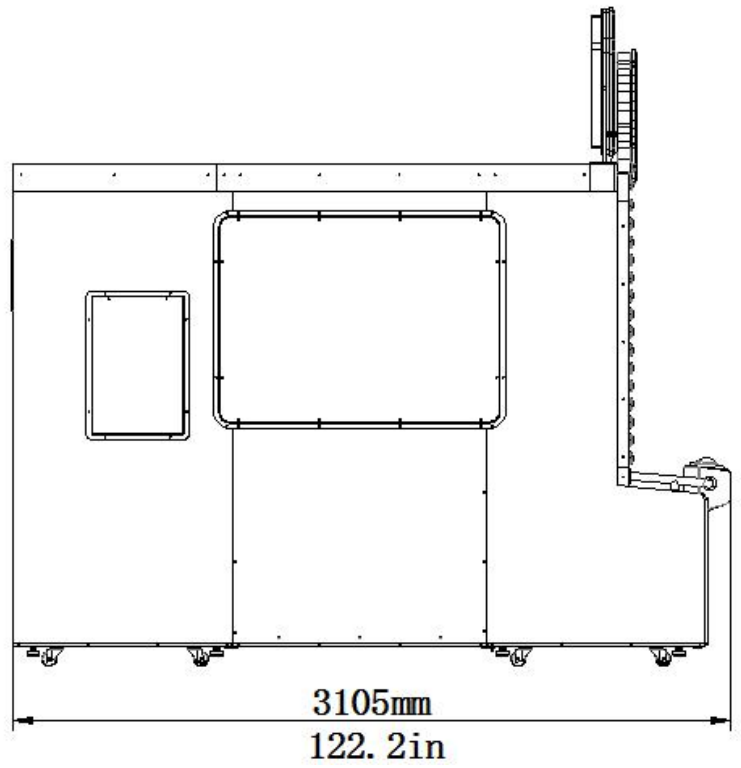
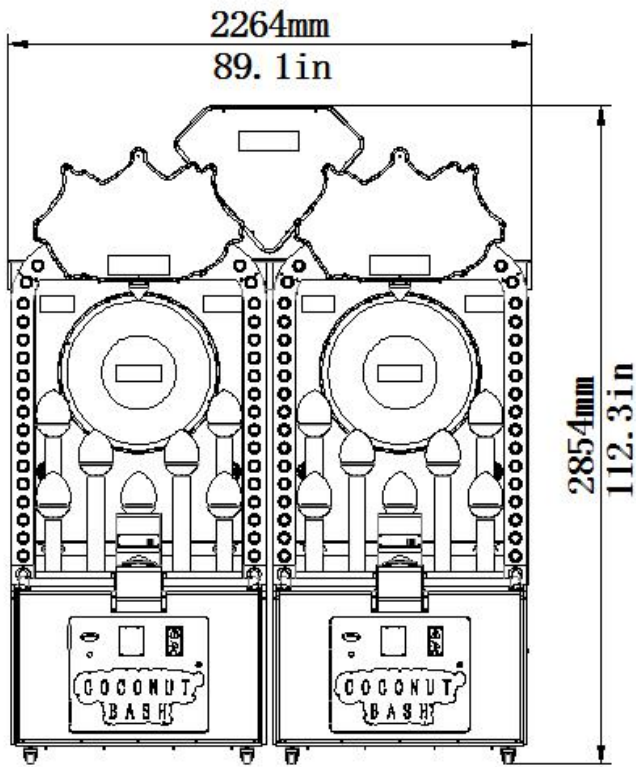


NOTICE: After turning off the game, please wait at least 1 minute before restarting again.

Single ver. dimension:



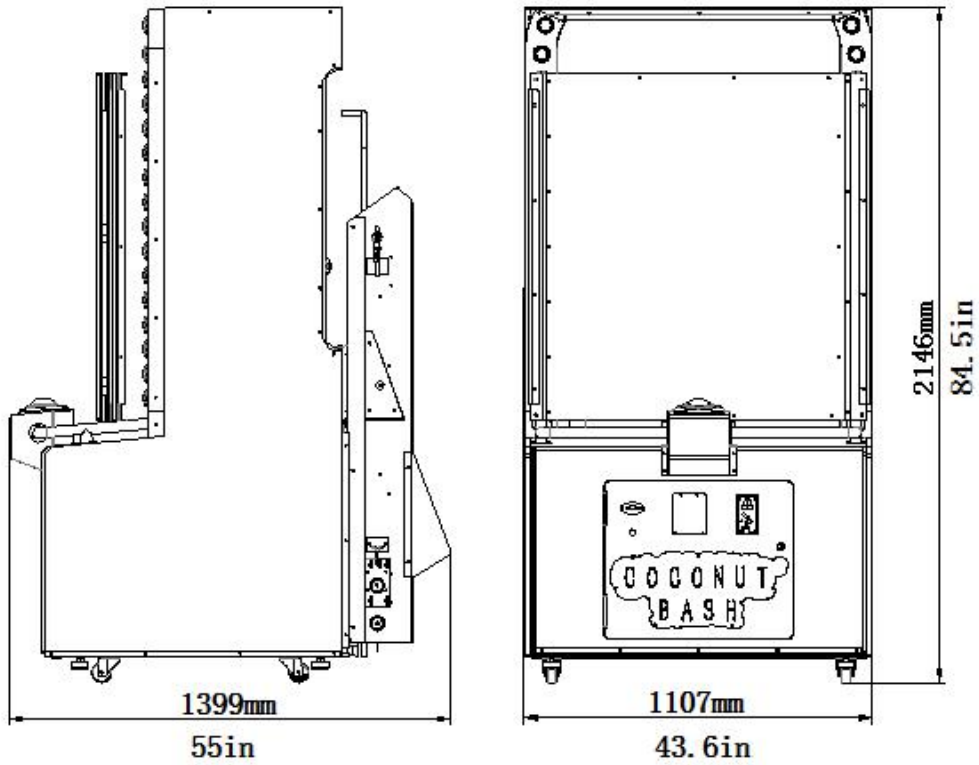
Linking ver. dimension:



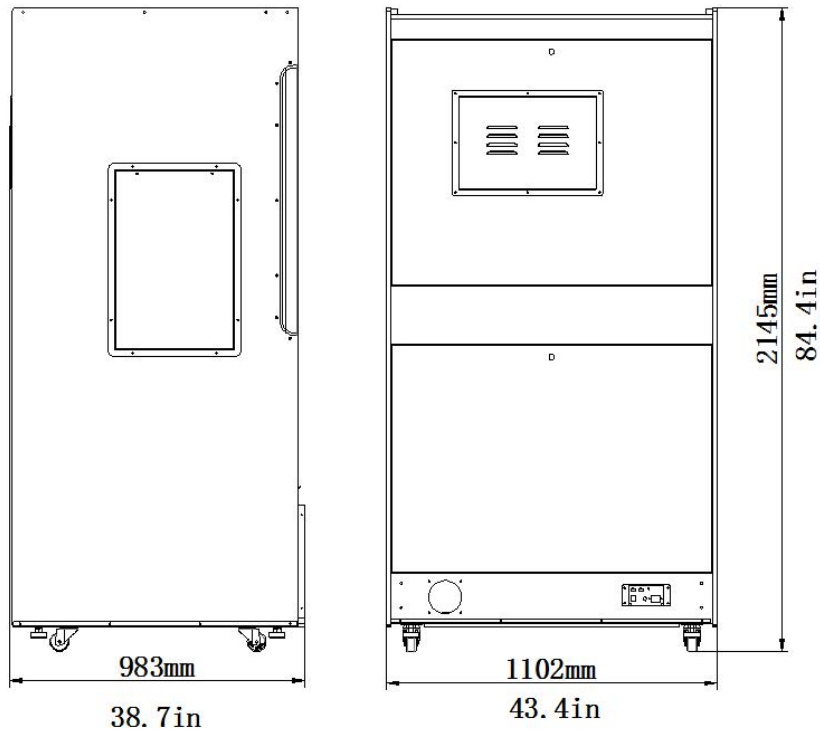
Note: Game specifications are subject to change without notice.

This machine will be divided into two parts during transportation.

Front part: W43.6×D55×H84.5 (in) W1107×D1399×H2146 (mm)



Back part: W43.4×D38.7×H84.4 (in) W1102×D983×H2145(mm)



Note: Game specifications are subject to change without notice.

2. CONTENTS OF THE ACCESSORY KIT

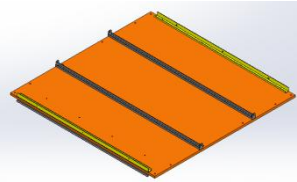
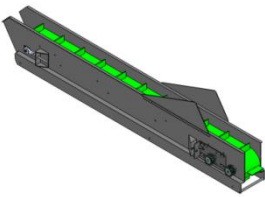
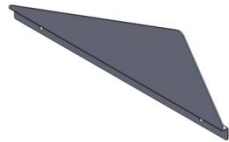
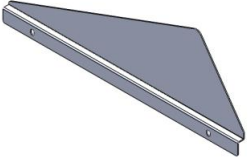
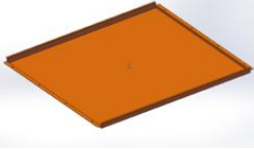
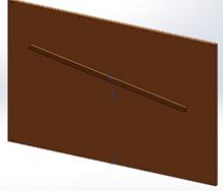
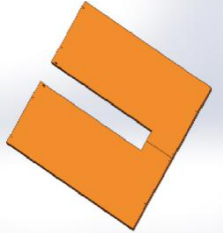

Open the package and make sure all the items are included:

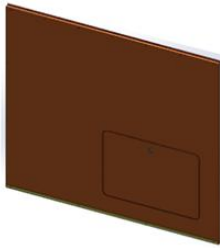


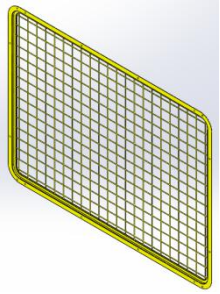

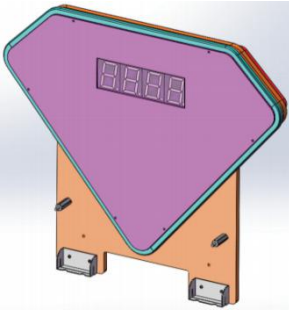
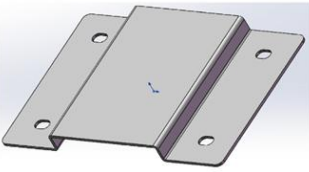
1. Following accessories:

No.	Part No.	Code	Name	Picture	Qty	Note
1	C146-244-001	20611702022A	Ball		20	/
2	C146-245-000	25300171002	Key		2	/
3	C146-246-000	25300172002	Key		1	/
4	C146-243-000	41440000251A	Manual		1	/
5	C146-409-000	21901000013	Fuse		11	/
6	C146-485-000	23301000001	Power cord		1	/
7	C146-247-000	20101040066	Hexagon socket button head screws		2	To connect the track back cover
8	C146-248-000	20101040171	Hexagon socket button head screws		4	To install the front marquee
9	C146-249-000	20101020041	Cross recessed pan head screw set		8	To install the middle top cover plate

No.	Part No.	Code	Name	Picture	Qty	Note
10	C146-250-000	20101000116	Cross recessed pan head screw		32	To install L&R windows
11	C146-251-000	20101040011	Hexagon socket button head screws		8	To install the ball track
12	C146-252-000	20101100020	Cross recessed pan head screw		16	To install middle L/R part
13	C146-253-000	20101000117	Cross recessed pan head screw		12	To install L/R side bar
14	C146-254-000	20104020002	Cross recessed hexagon screw kit		6	To install send ball assembly and back bottom plate
15	C146-255-000	20104020004	Cross recessed hexagon screw kit		16	To install middle bottom part and Large marquee
16	C146-256-000	20101108005	Hexagon socket button head screws		2	To install the front marquee
17	C146-257-000	20102020030	Hexagon flange nut		4	To install L/R baffle
18	C146-740-002	20511702026B	Steps label	/	1	/

2. Component & hardware for installation:

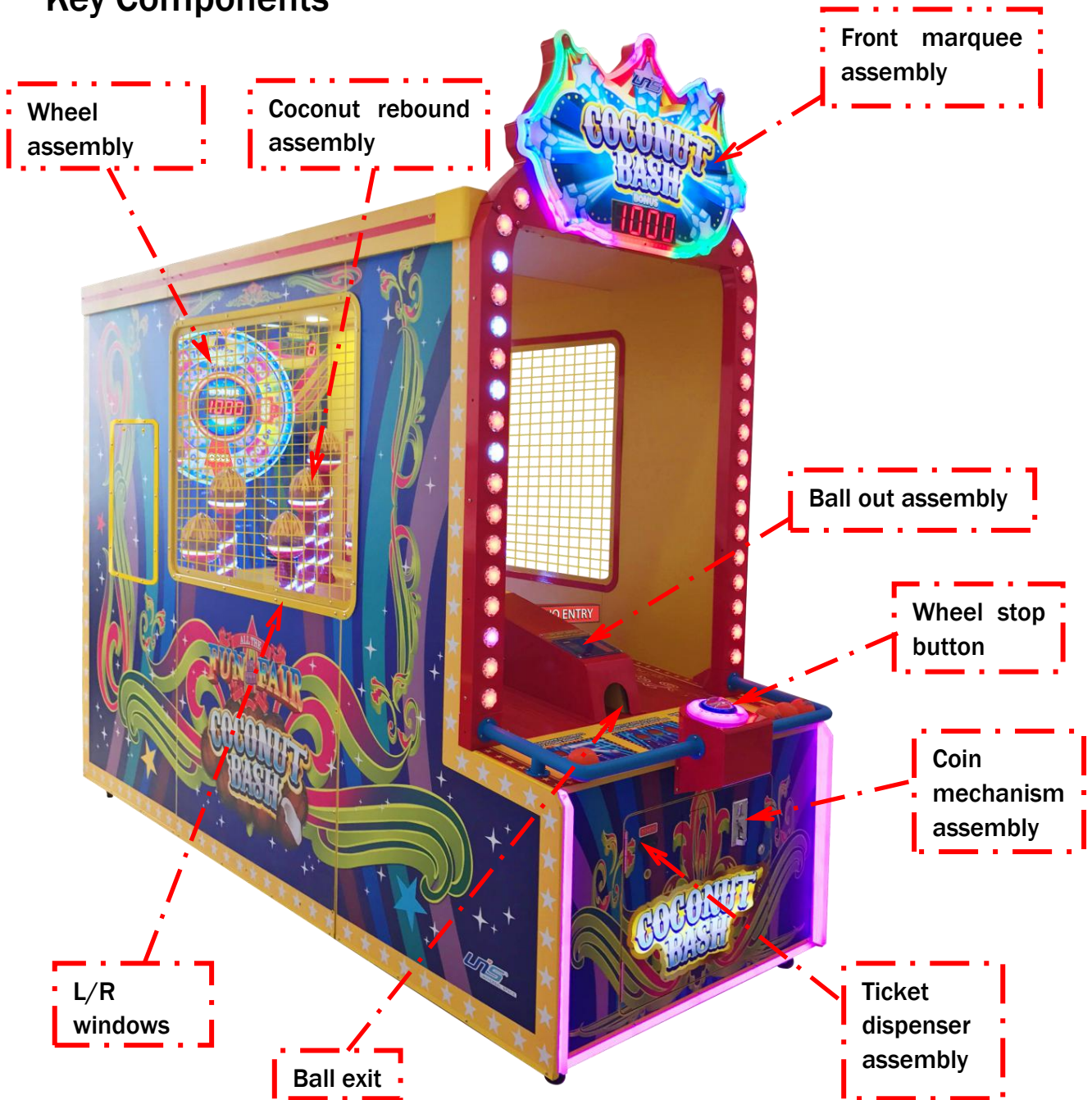
No.	Part No.	Code	Name	Picture	Qty
1	/	/	Middle bottom part		1
2	/	/	Send ball assembly		1
3	C146-174-000	20211702033	L baffle 2		1
	C146-176-000	20211702035	R baffle 2		1
4	C146-109-001	20311702044	Middle top cover plate		1
5	/	/	Middle L part		1
6	/	/	Ball track assembly		1
7	C146-232-000	20211702074	Ball track back cover		1

No.	Part No.	Code	Name	Picture	Qty
8	/	/	Middle R part		1
9	/	/	R side bar		1
10	/	/	L side bar		1
11	/	/	L&R window assembly		2
12	/	/	Front marquee assembly		1
13	/	/	Large marquee assembly		1
14	C146-241-000	20211702123	Back bottom plate		1

NOTE: Part models are subject to change without notice.

3. PART NAME

Key Components



4. SET UP & INSTALLATION

! NOTICE

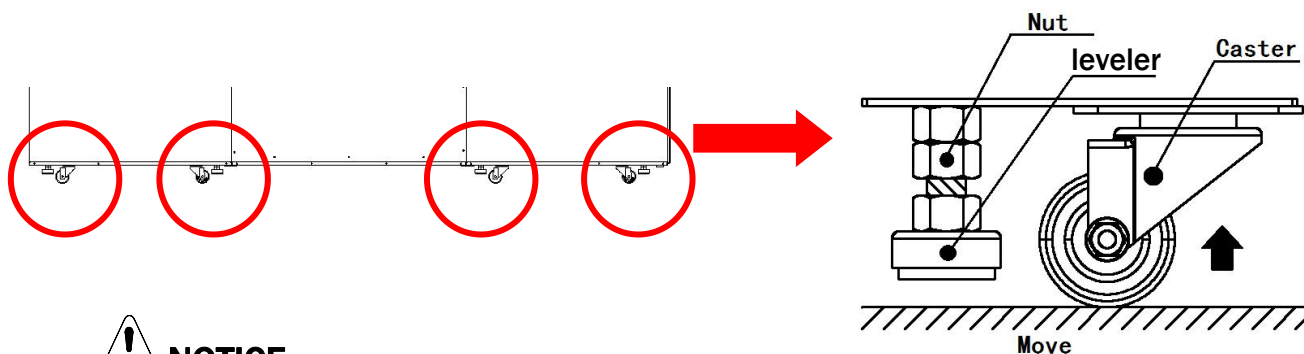
We do not recommend using power tools as they may cause damage.

! 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.



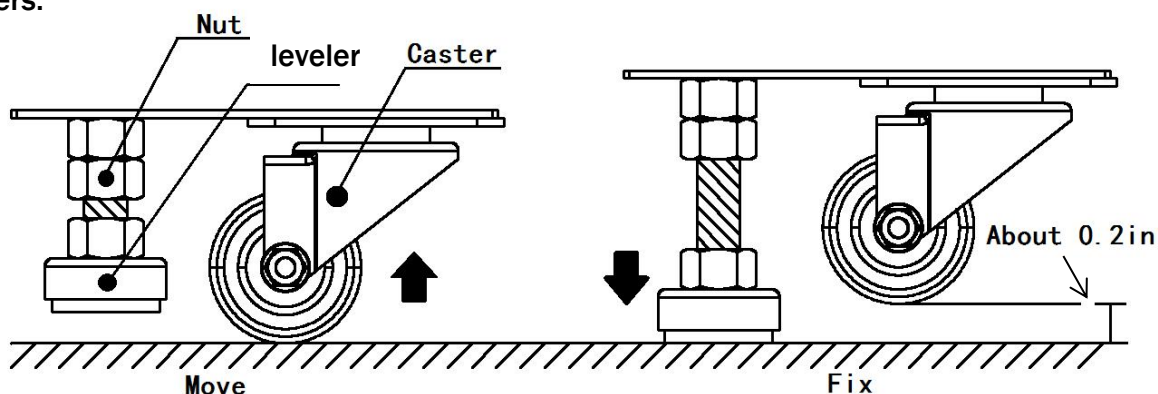
! NOTICE

- 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. Repeat the same for all levelers.



! NOTICE

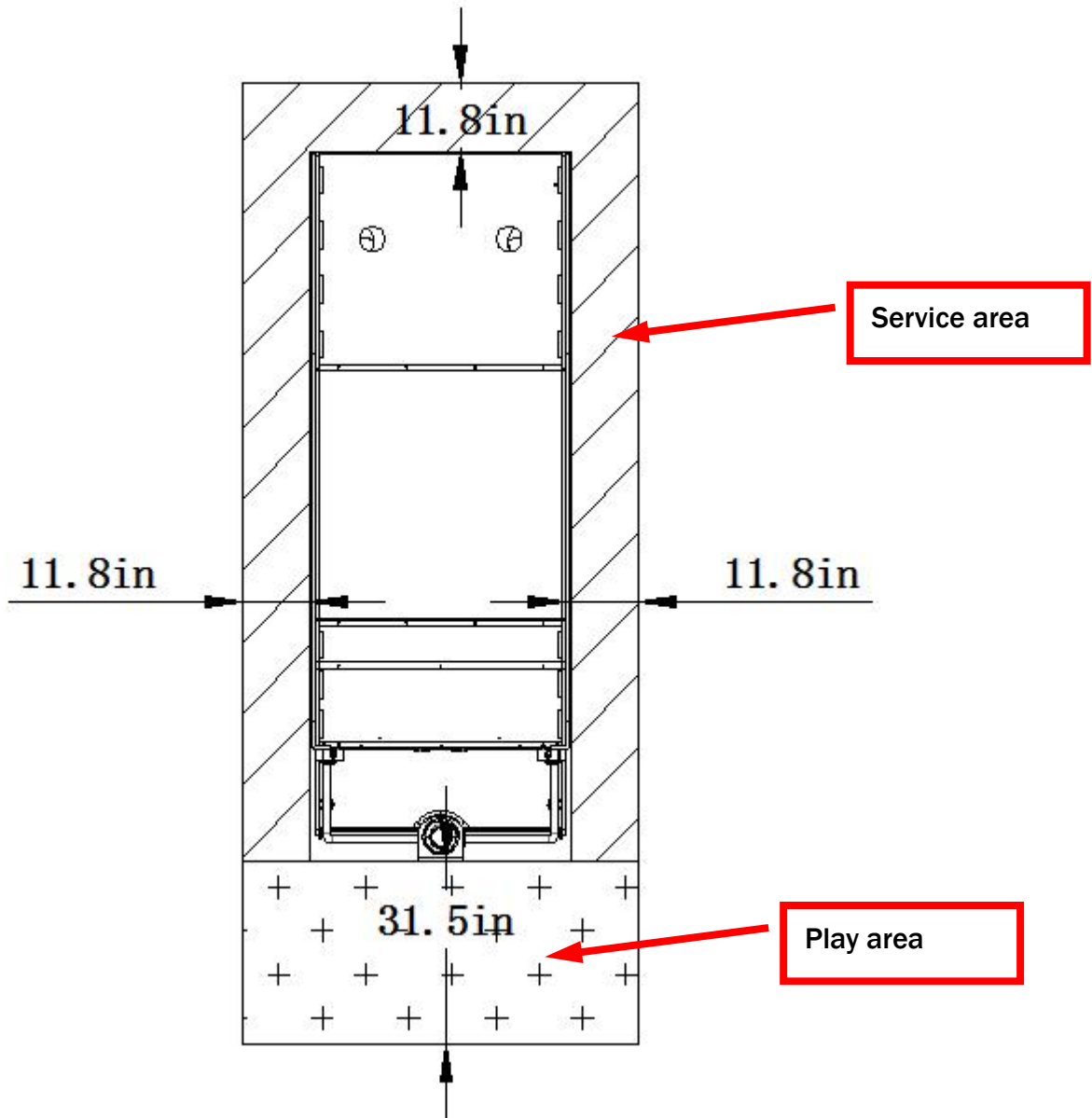
Make sure the machine is level.

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: 11.8 in






NOTICE


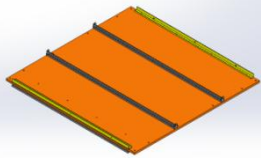
Your unit must be leveled to operate properly.

4.4 Machine Installation

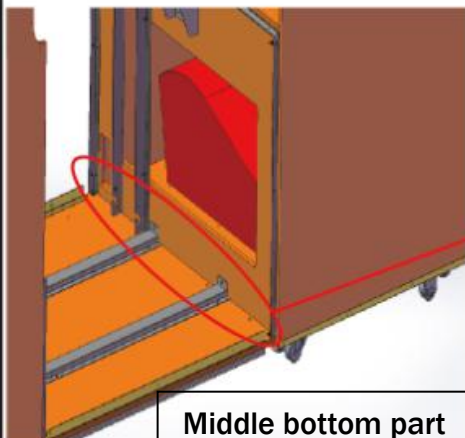
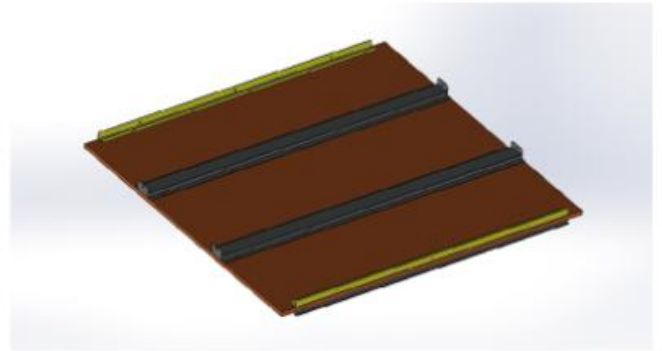
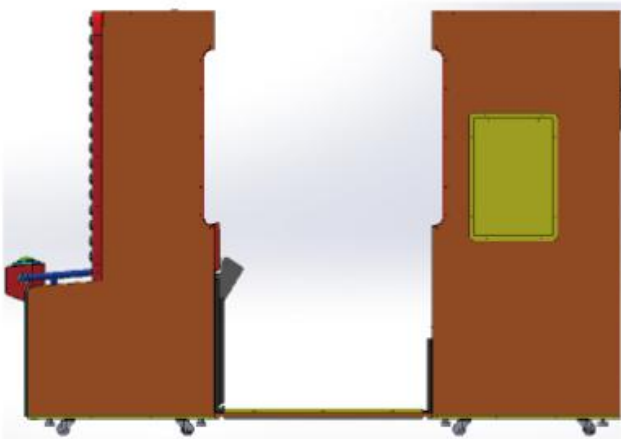
Before processing with assembly assure you have the following tools.

No.	Name	Picture	Use for
1	Phillips screwdriver		For Marquee Installation&Connect Lane Assembly
2	Wrench		
3	Allen hexagon wrenches		Connect Lane Assembly & Display Assembly

4.4.1

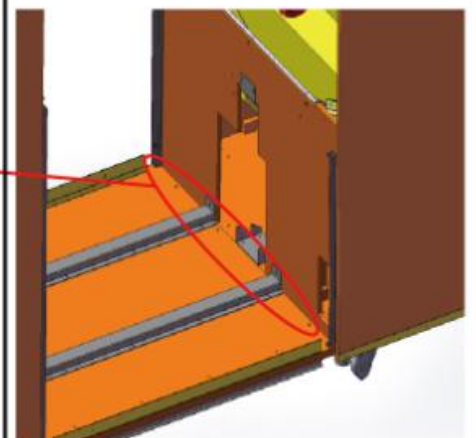
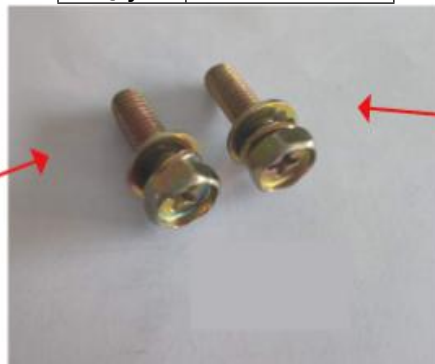
No.	Part No.	Code	Name	Picture	Qty
1	C146-255-000	20104020004	Cross recessed hexagon screw kit		14
2	/	/	Middle bottom part		1

STEP 1


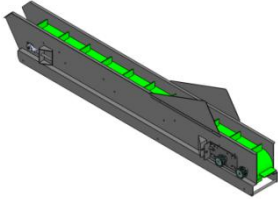


Middle bottom part

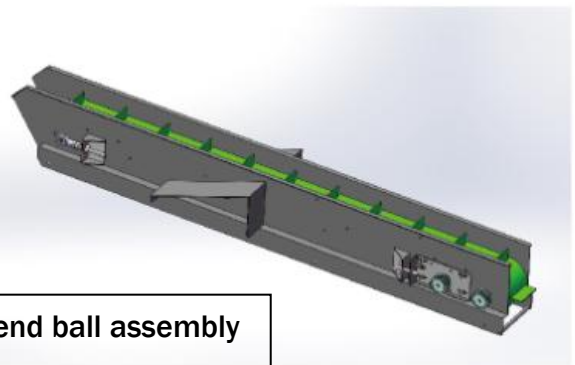
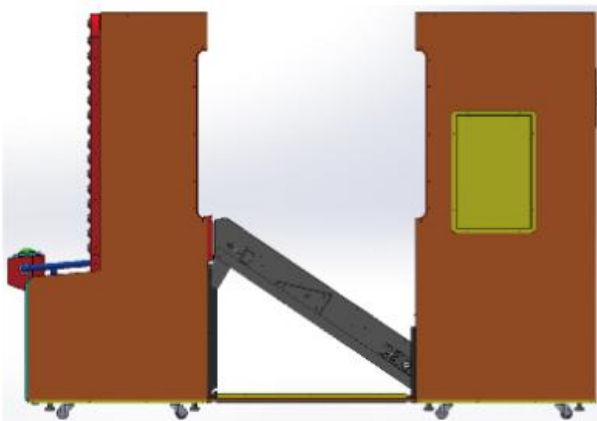
No.	15
SPEC.	M6X25
Qty.	14



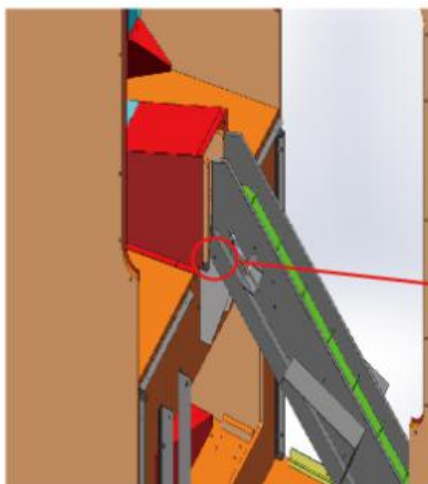
4.4.2

No.	Part No.	Code	Name	Picture	Qty
1	C146-254-000	20104020002	Cross recessed hexagon screw kit		2
2	/	/	Send ball assembly		1

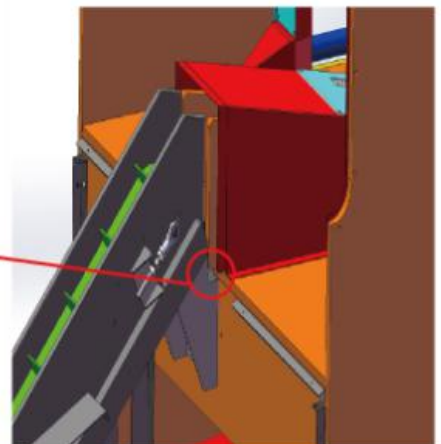
STEP2



Send ball assembly



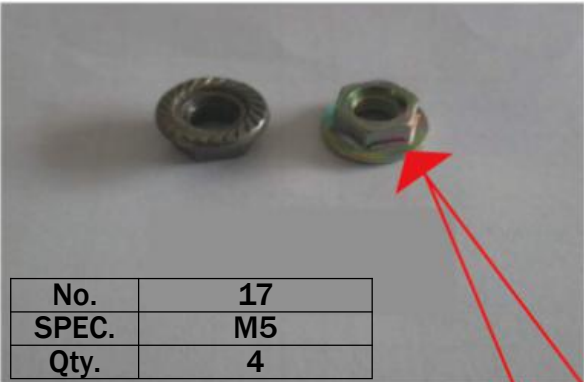
No.	14
SPEC.	M6X16
Qty.	2



4.4.3

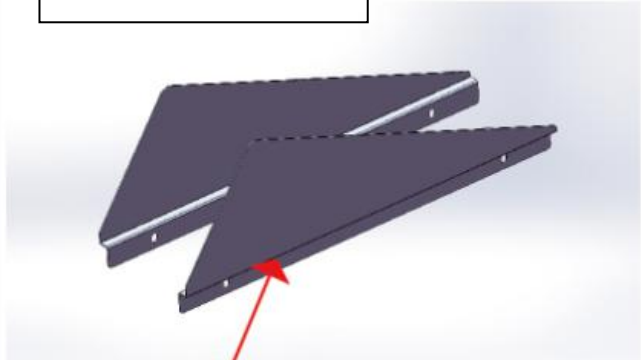
No.	Part No.	Code	Name	Picture	Qty
1	C146-257-000	20102020030	Hexagon flange nut		4
2	C146-174-000	20211702033	L baffle 2		1
3	C146-176-000	20211702035	R baffle 2		1

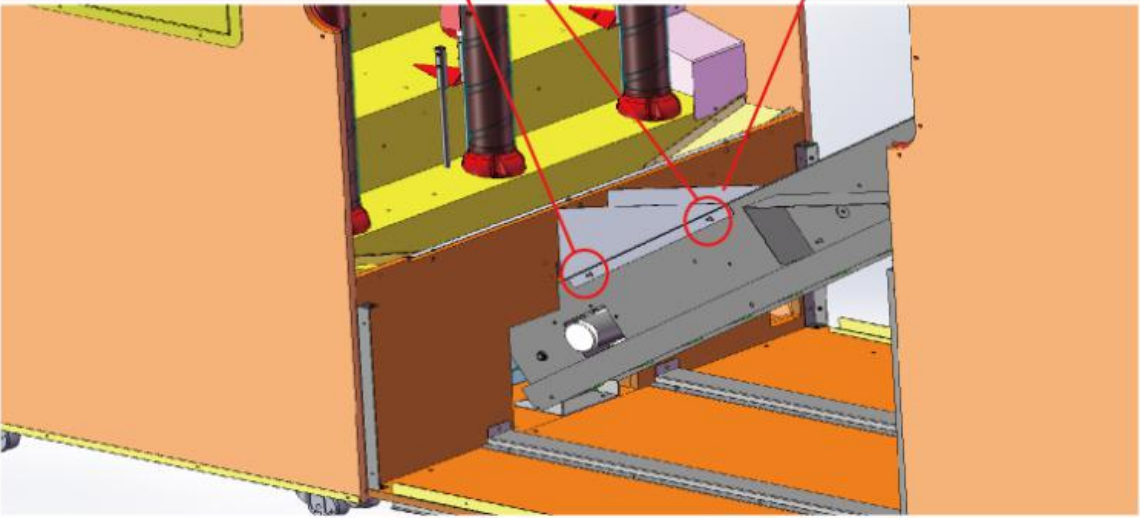
STEP3




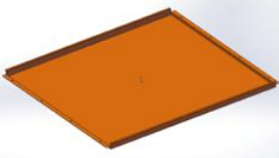
No.	17
SPEC.	M5
Qty.	4

L/R baffle 2

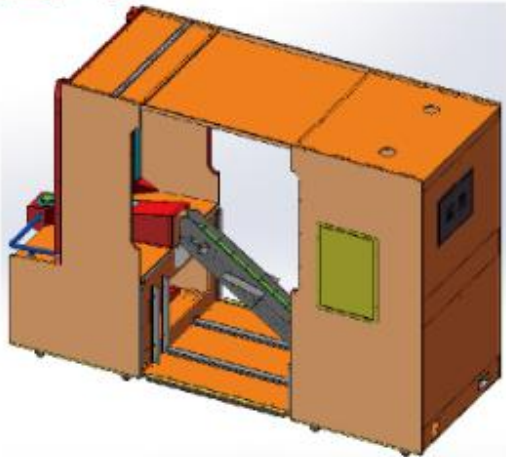





4.4.4

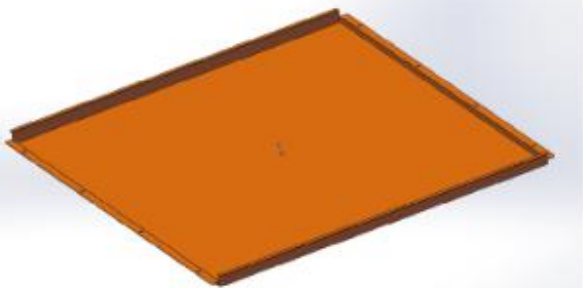
No.	Part No.	Code	Name	Picture	Qty
1	C146-249-000	20101020041	Cross recessed pan head screw set		8
2	C146-109-001	20311702044	Middle top cover plate		1

STEP4

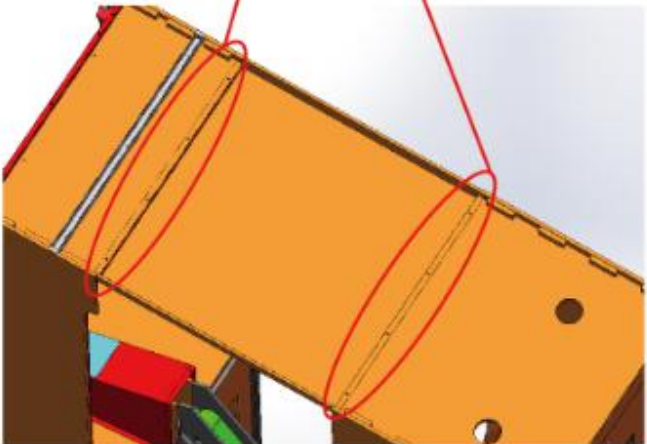


No.	9
SPEC.	M5X12
Qty.	8


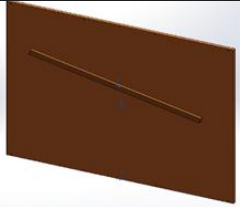




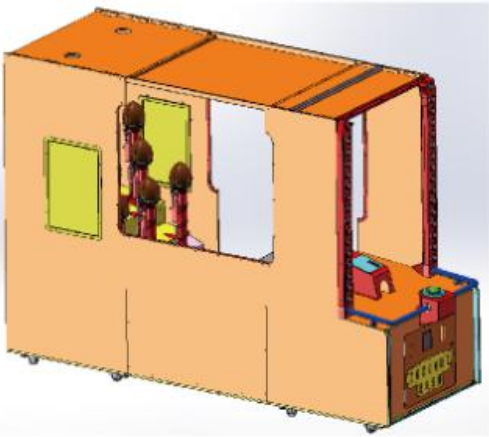
Middle top cover plate

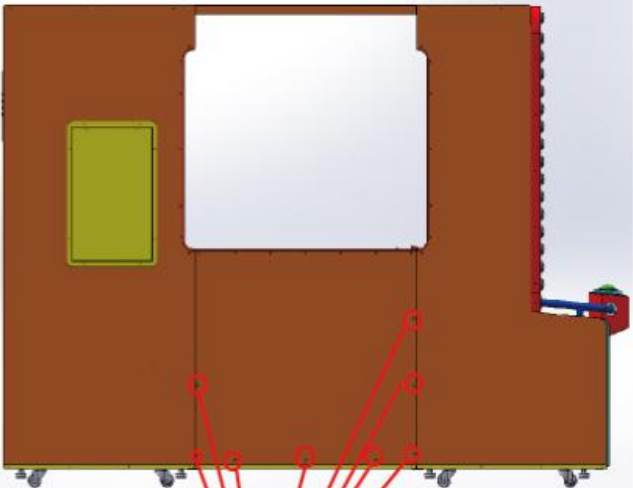


4.4.5

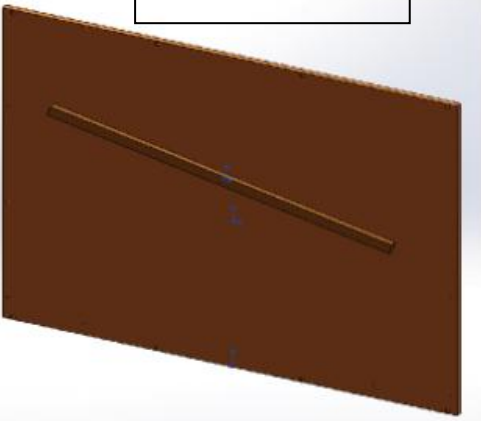
No.	Part No.	Code	Name	Picture	Qty
1	C146-252-000	20101100020	Cross recessed pan head screw		8
2	/	/	Middle L part		1


STEP5







Middle L part



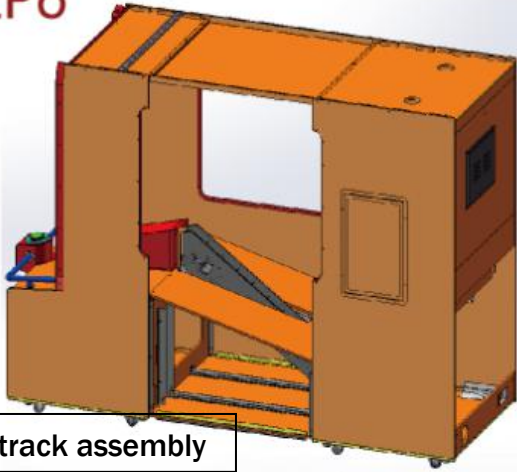


No.	12
SPEC.	M5X25
Qty.	8

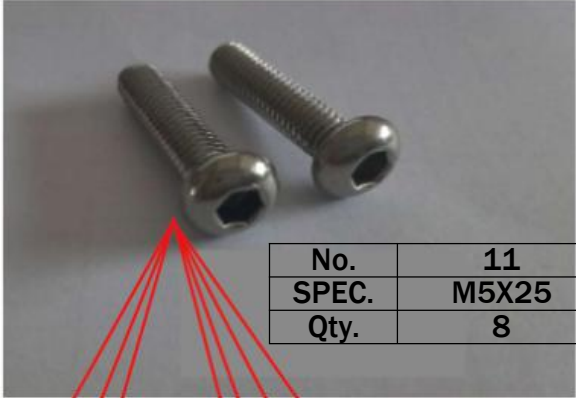
4.4.6

No.	Part No.	Code	Name	Picture	Qty
2	C146-251-000	20101040011	Hexagon socket button head screws		8
3	/	/	Ball track assy		1


STEP 6

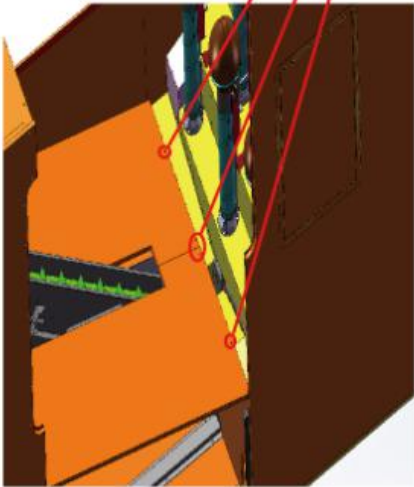


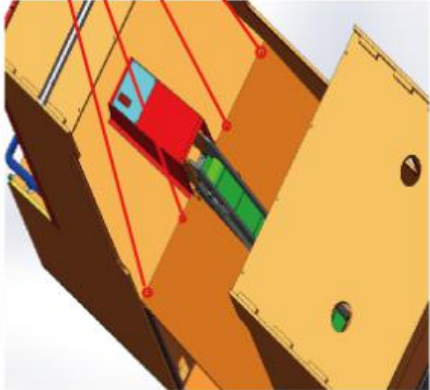
Ball track assembly





No.	11
SPEC.	M5X25
Qty.	8



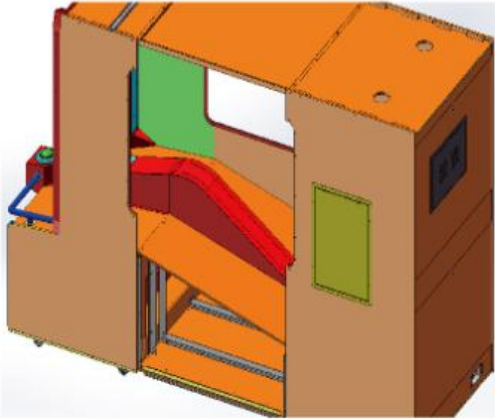


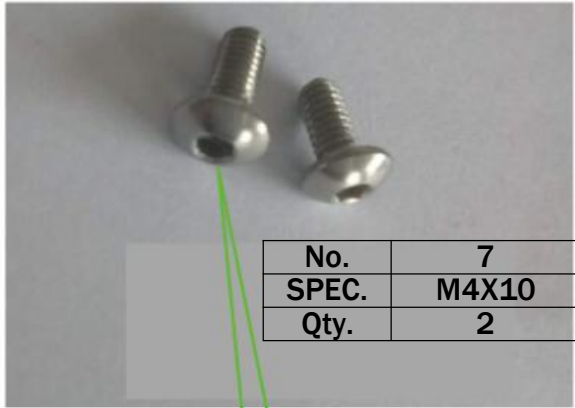


4.4.7

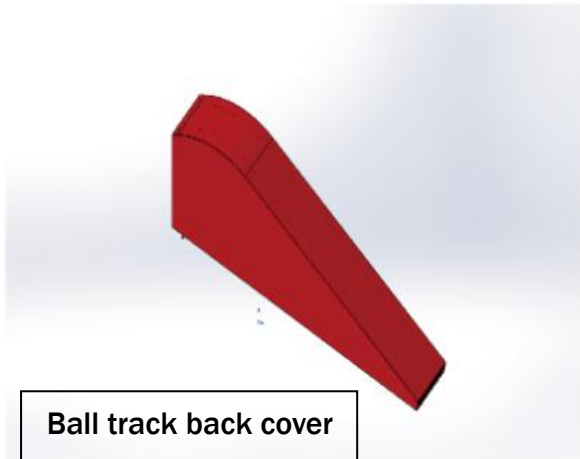
No.	Part No.	Code	Name	Picture	Qty
1	C146-247-000	20101040066	Hexagon socket button head screws		2
2	C146-232-000	20211702074	Ball track back cover		1

STEP 7








No.	7
SPEC.	M4X10
Qty.	2



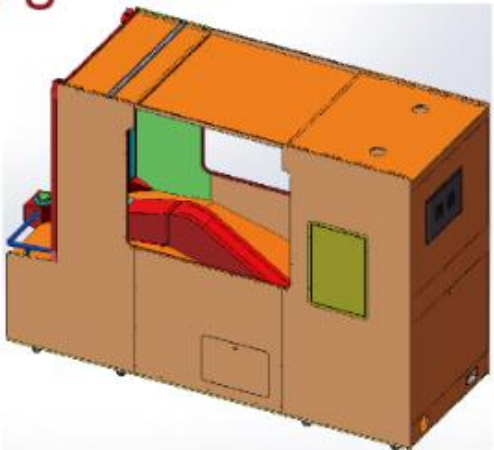
Ball track back cover

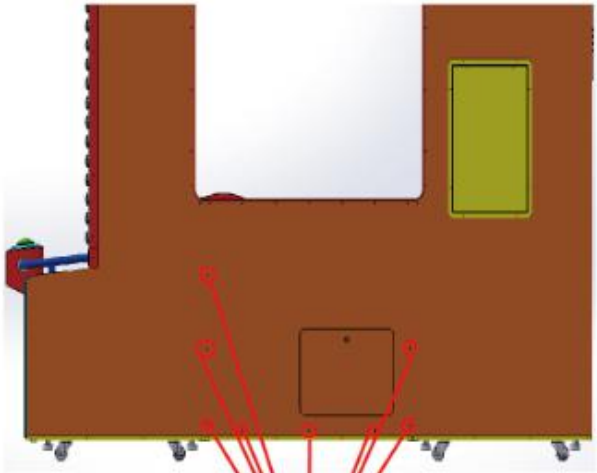


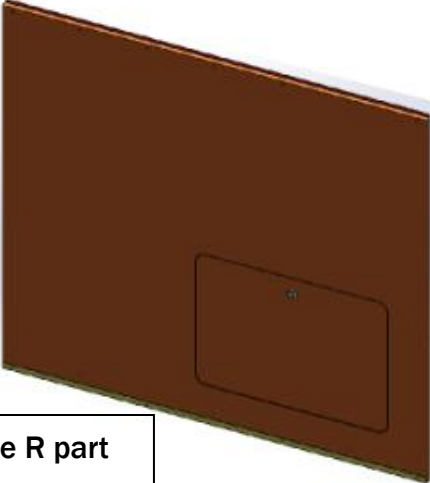
4.4.8

No.	Part No.	Code	Name	Picture	Qty
1	C146-252-000	20101100020	Cross recessed pan head screw		8
2	/	/	Middle R part		1

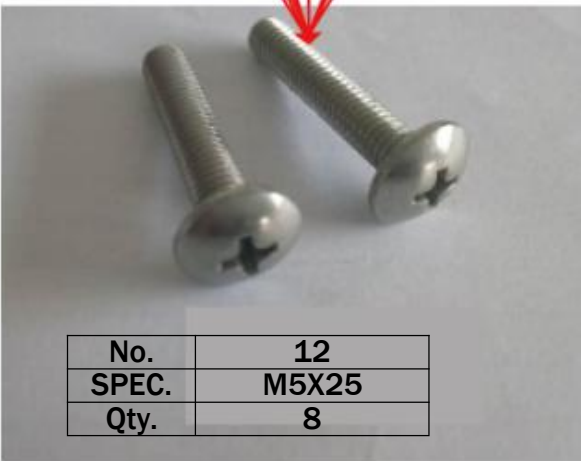
STEP8









Middle R part

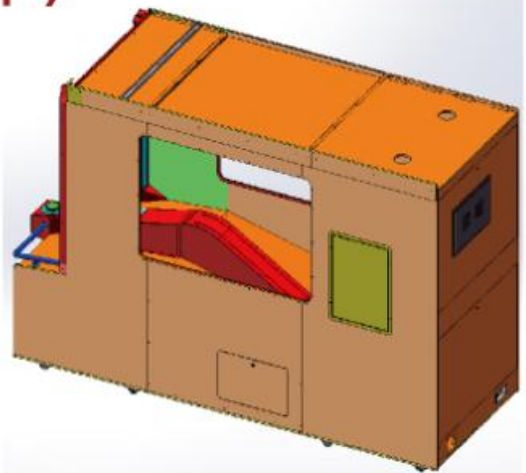


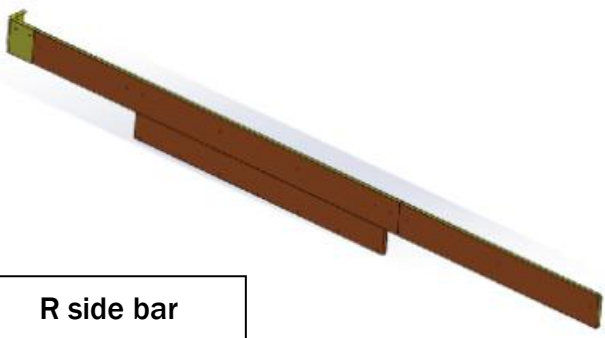
No.	12
SPEC.	M5X25
Qty.	8

4.4.9

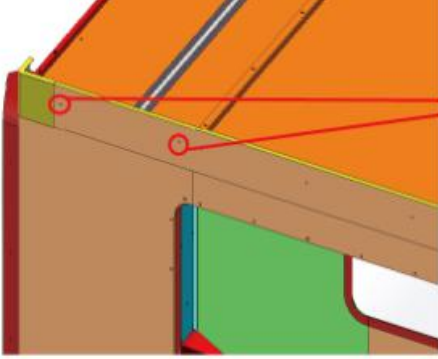
No.	Part No.	Code	Name	Picture	Qty
1	C146-253-000	20101000117	Cross recessed pan head screw		6
2	/	/	R side bar		1

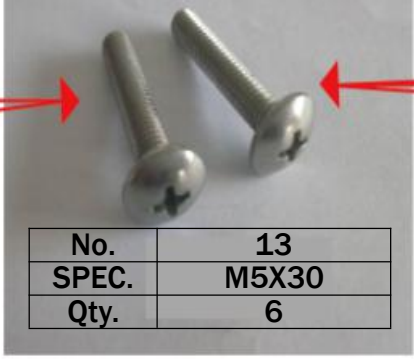
STEP 9



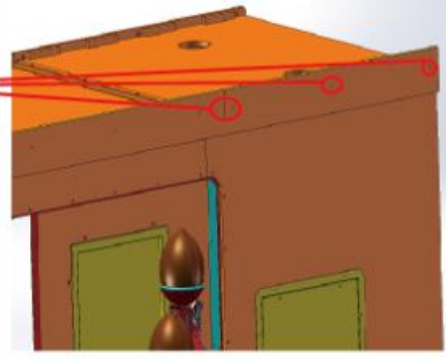


R side bar








No.	13
SPEC.	M5X30
Qty.	6

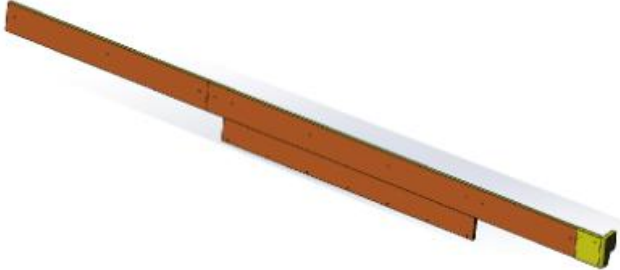


4.4.10

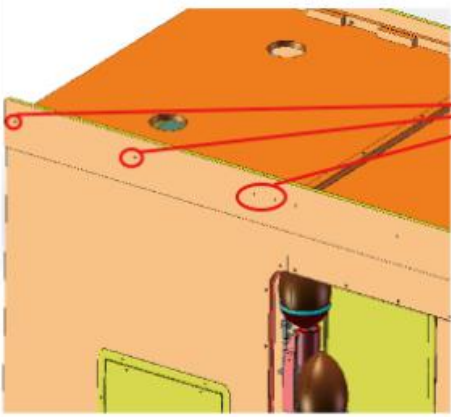
No.	Part No.	Code	Name	Picture	Qty
1	C146-253-000	20101000117	Cross recessed pan head screw		6
2	/	/	L side bar		1


STEP 10



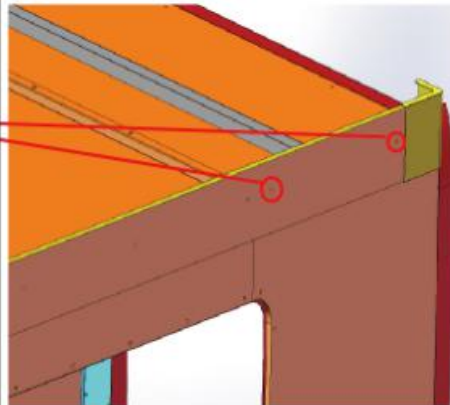


L side bar


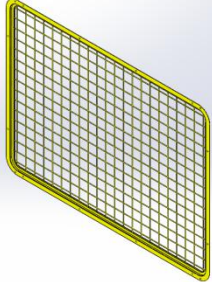




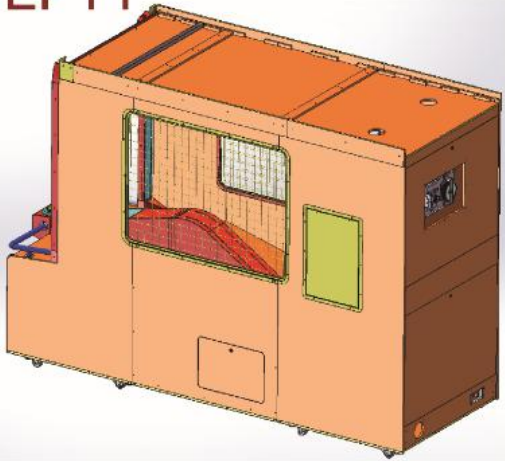
No.	13
SPEC.	M5X30
Qty.	6

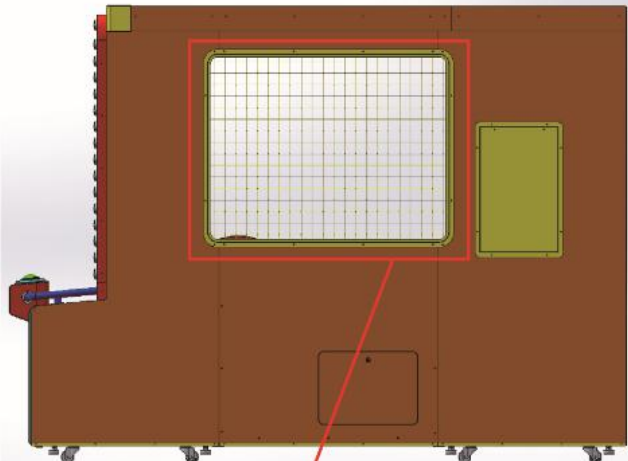


4.4.11

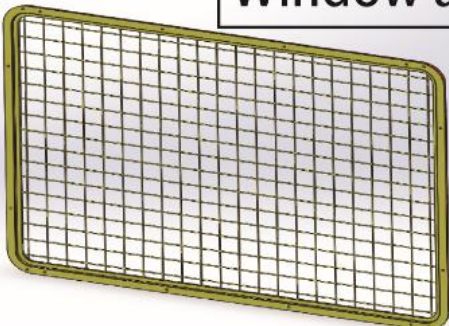
No.	Part No.	Code	Name	Picture	Qty
1	C146-250-000	20101000116	Cross recessed pan head screw		32
2	/	/	L/R window assembly		2


STEP 11








Window assy × 2



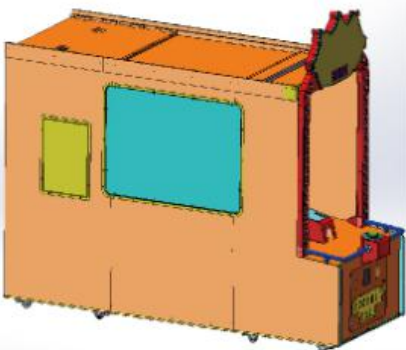


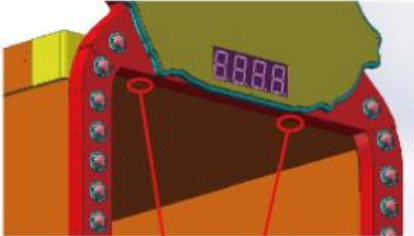
No.	10
SPEC.	M5 × 16
Qty.	32


4.4.12


No.	Part No.	Code	Name	Picture	Qty
1	C146-256-000	20101108005	Hexagon socket button head screws		2
2	C146-248-000	20101040171	Hexagon socket button head screws		4
3	/	/	Front marquee assembly		1

STEP12

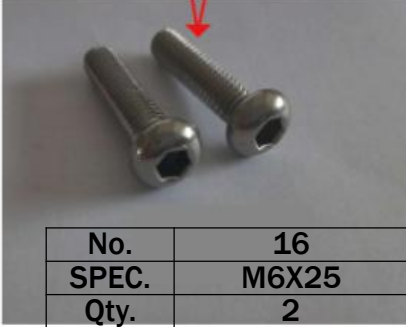




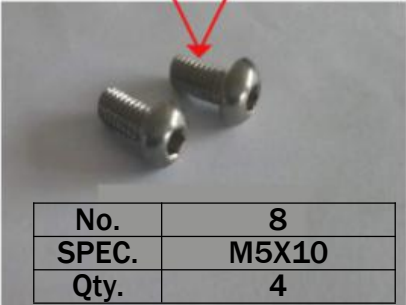




Front marquee assembly


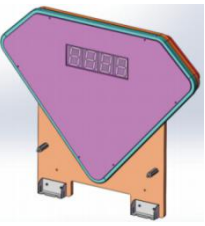


No.	16
SPEC.	M6X25
Qty.	2

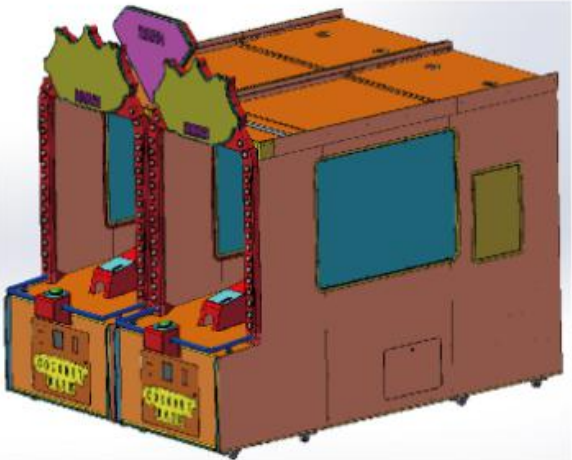


No.	8
SPEC.	M5X10
Qty.	4

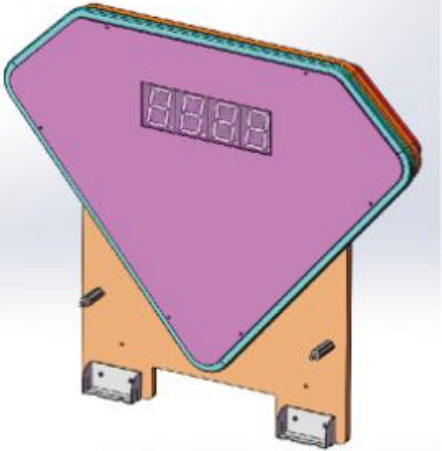
4.4.13

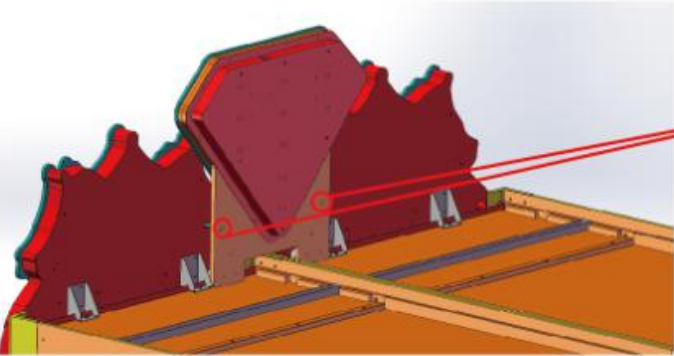
No.	Part No.	Code	Name	Picture	Qty
1	C146-255-000	20104020004	Cross recessed hexagon screw kit		2
2	/	/	Large marquee assembly		1


STEP13



Large marquee assembly


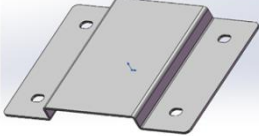




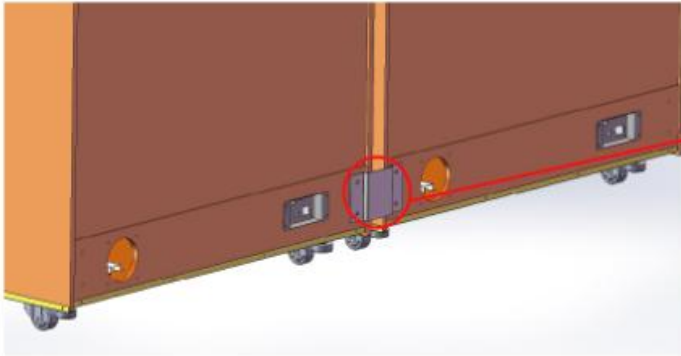


No.	15
SPEC.	M6X25
Qty.	2

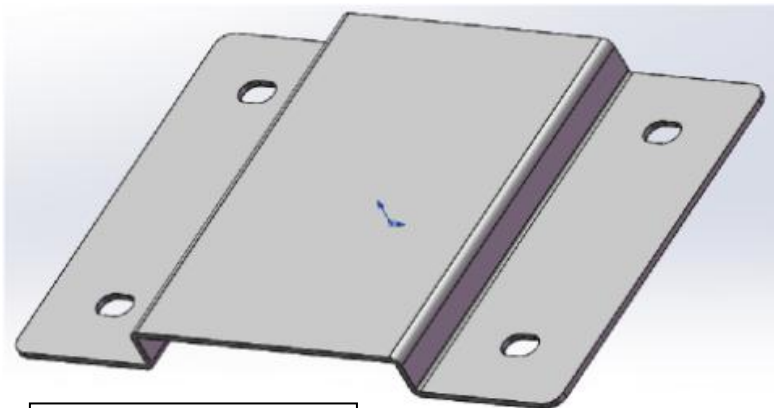
4.4.14

No.	Part No.	Code	Name	Picture	Qty
1	C146-254-000	20104020002	Cross recessed hexagon screw kit		4
2	C146-241-000	20211702123	Back bottom plate		1


STEP14



No.	14
SPEC.	M6X16
Qty.	4




Back bottom plate

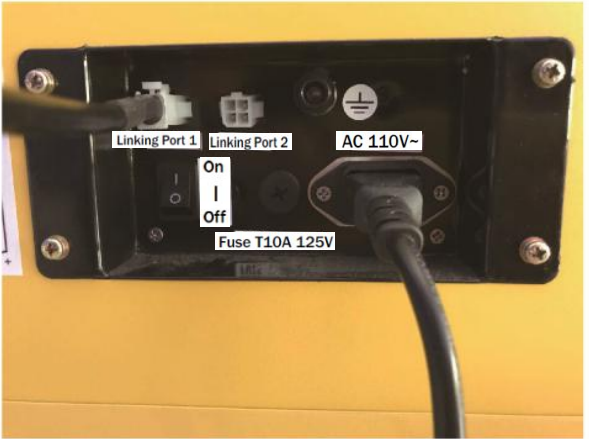
No.	Part No.	Code	Name	Picture	Qty
1	\	\	Linking cable		1


STEP15

No.	19
SPEC.	
Qty.	1



Linking cable





5. HOW TO PLAY

KNOCKDOWN COCONUTS TO SCORE POINTS!



THE POINTS OF EACH COCONUT WILL BECOME HIGHER ON EACH WAVE



ACHIEVE HIGH SCORE TO ACTIVATE LUCKY WHEEL AND WIN BONUS



The image illustrates the game mechanics in four stages. The first stage shows a coconut being struck by a ball, with a starburst effect indicating a hit. The second stage shows three coconuts on sticks, each with a different colored band (blue, green, red). The third stage shows a colorful lucky wheel with various prize amounts (50, 70, 100, 200, 500, 1000) and a 'BONUS' section. The fourth stage shows a close-up of the wheel's center, which is a black rectangle labeled 'BONUS'.

6. IO SETTING

INPUT:

INPUT	Content	INPUT	Content	INPUT	Content
IN1	1 Pole score sensor	IN9	5 Pole score sensor	IN17	Start btn
IN2	1 Pole reset sensor	IN10	5 Pole reset sensor	IN18	Anti-cheating sensor 18
IN3	2 Pole score sensor	IN11	6 Pole score sensor	IN19	Ball out sensor(Front)
IN4	2 Pole reset sensor	IN12	6 Pole reset sensor	IN20	Ball out sensor(Back)
IN5	3 Pole score sensor	IN13	7 Pole score sensor	IN21	Anti-cheating sensor21
IN6	3 Pole reset sensor	IN14	7 Pole reset sensor	IN22	Anti-cheating sensor21
IN7	4 Pole score sensor	IN15	Send ball sensor	IN23	
IN8	4 Pole reset sensor	IN16	Bonus wheel sensor	IN24	

INPUT	Content
J25-T1_IN	Tik feedback
J25-T2_IN	
J27-C_IN1	Coin mech.
J27-C_IN2	DBV
J26-KEY1	Settings btn
J26-KEY2	Test btn
J26-KEY3	Reset btn
J26-KEY4	

Note:IN1 - IN24—Standard input; IN25 - IN32—Fix input

OUTPUT:

OUTPUT	Content	OUTPUT	Content	OUTPUT	Content
OUT1	1 Pole R	OUT9	3 Pole B	OUT17	Out of tik light
OUT2	1 Pole G	OUT10	4 Pole R	OUT18	Start btn light
OUT3	1 Pole B	OUT11	4 Pole G	OUT19	Send ball motor
OUT4	2 Pole R	OUT12	4 Pole B	OUT20	Shake ball motor
OUT5	2 Pole G	OUT13	5 Pole R	OUT21	Wheel point
OUT6	2 Pole B	OUT14	5 Pole G	OUT22	
OUT7	3 Pole R	OUT15	5 Pole B	OUT23	
OUT8	3 Pole G	OUT16	6 Pole R	OUT24	

OUTPUT	Content
OUT25	
J25-T2_OUT	
J25-T1_OUT	Tik drive
J26-CNT3	
J26-CNT2	Tik meter
J26-CNT1	Coin meter
J27-C_CLK2	
J27-C_CLK1	Lock coin signal

Note:OUT1 - OUT8IRF540—Output OUT9 - OUT16 TIP12—Output OUT17

-OUT32ULN280—Output, OUT26 - OUT32—fix output

Expansion Board output:

OUTPUT	Content	OUTPUT	Content	OUTPUT	Content
OUT33	Wheel light R	OUT41		OUT49	1 Pole motor
OUT34	Wheel light G	OUT42		OUT50	2 Pole motor
OUT35	Wheel light B	OUT43		OUT51	3 Pole motor
OUT36	Ctrl panel light R	OUT44	6 Pole G	OUT52	4 Pole motor
OUT37	Ctrl panel light G	OUT45	6 Pole B	OUT53	5 Pole motor
OUT38	Ctrl panel light B	OUT46	7 Pole R	OUT54	6 Pole motor
OUT39	Wheel light	OUT47	7 Pole G	OUT55	7 Pole motor
OUT40		OUT48	7 Pole B	OUT56	

OUTPUT	Content
OUT57	
OUT58	
OUT59	
OUT60	
OUT61	
OUT62	
OUT63	
OUT64	

Note:OUT33 - OUT48TIP12—Output OUT49 - OUT64UNL2803—Output

Setting: Long press Settings button enter into setting menu, short press the Settings button to choose the item, Test button+, Reset button-.

Settings btn	Description		Defaults	Test/Reset btn	
A.001	Game version	1=chinese ver/2=GMP/3=UK/4=AMUSEMENT	2	±1	Press Settings btn↓
A.002	Coin(s) per game	0-20/free play	1	±1	Press Settings btn↓
A.003	Number of light colors	1-6	6	±1	Press Settings btn↓
A.004	Blue light score	1-10 (*)	5	±1	Press Settings btn↓
A.005	Game time	10-120s	30s	±1	Press Settings btn↓
A.006	Wheel open score	10-500	100	±10	Press Settings btn↓
A.007	Bonus Game award	0=OFF,1=ON (Only for AMUSEMENT)	0	±1	Press Settings btn↓
A.008	Bonus Game time	10s-100s (Only for AMUSEMENT)	10s	±1	Press Settings btn↓
A.009	Bonus Game score	50-9000 (Only for AMUSEMENT)	400	±50	Press Settings btn↓
A.010	BONUS score	100-9900	1000	±100	Press Settings btn↓
A.011	Super BONUS score	100-9900	2000	±100	Press Settings btn↓
A.012	DEMO music time	1-100s,0=demo music	20	±1	Press Settings btn↓
A.013	Ticket out	1=tik out,0=OFF	1	±1	Press Settings btn↓
A.014	Fixed ticket	0-100,0=OFF	0	±1	Press Settings btn↓
A.015	Ticket payout	1-100	10	±1	Press Settings btn↓
A.016	High score display	0=OFF,1=disply but not memory,2=display&memory	0	±1	Press Settings btn↓
A.017	Ticket group	1-6 (**)	3	±1	Press Settings btn↓
A.018	Wheel score group	1-3 (***)	3	±1	Press Settings btn↓
A.019	Memory	1=ON,0=OFF	1	±1	Press Settings btn↓
A.020	Alarm sound	1=ON,0=OFF	1	±1	Press Settings btn↓
A.021	Link	0=OFF,1-8=ON(link address, 1=host)	0	±1	Press Settings btn↓
A.022	Reset to defaults	0=OFF,1=ON	0	±1	Press Settings btn↓
Save& exit	Back to game				

*Light color score description:

There are 6 waves, 1st wave is blue light, 2nd wave is green light, 3rd wave is red light, 4th wave is yellow light, 5th wave is cyan light, 6th wave is violet light. Each color has different scores.If blue light score=N,so green light score=2N,red light score=3N,yellow light score=4N,cyan light score=5N, violet light score=6N.For example: blue light=5, green light=10,red light=15,yellow light=20,cyan light=25, violet light=30.

Testing: Short press Settings button enter into test mode, short press the Settings button to choose the item, short press Settings button to quit.

Settings btn	Description		
P001	Input test	Manually to test the input contents.	Press Settings btn↓
P002	Output test	Auto test.	Press Settings btn↓
P003	DEMO music	Auto test.	Press Settings btn↓
P004	Wheel test	Auto test.	Press Settings btn↓
P005	Ticket test	5 tickets payout every time.	

Long press the Reset button to clear the owed tik

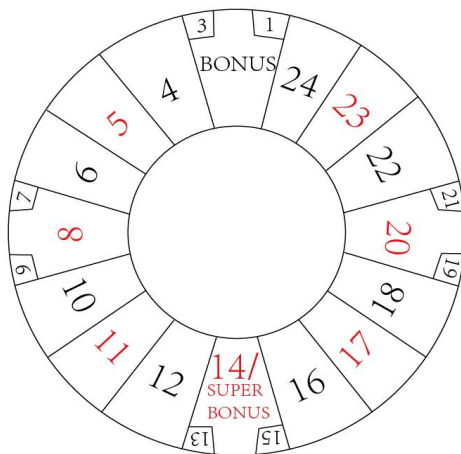
Long press the Test button to clear the error

Ticket group**:

Group	0-49	50-99	100-299	300-499	500-699	700-999	1000-1999	2000-2999	3000+
Group 1	1	2	3	4	5	6	7	10	15
Group 2	1	3	5	8	12	15	20	30	50
Group 3	1	5	10	15	30	60	120	200	300
Group 4	2	10	20	30	40	80	160	300	500
Group 5	3	15	25	40	50	100	200	400	1000
Group 6	4	20	30	50	60	120	250	500	1500

Wheel score***: Reference picture for wheel score position, SUPER BONUS only activate for linking. Enter into A.007 to set BONUS score and A.008 to set SUPER BONUS score.

Group	Wheel score groups												
Group 1	Position	1	BONUS	3	4	5	6	7	8	9	10	11	12
	Score	50	*	50	70	50	40	50	100	50	40	50	70
	Position	13	14	15	16	17	18	19	20	21	22	23	24
	Score	50	200	50	70	50	40	50	100	50	40	50	70
Group 2	Position	1	BONUS	3	4	5	6	7	8	9	10	11	12
	Score	50	*	50	70	100	40	50	200	50	40	100	70
	Position	13	14	15	16	17	18	19	20	21	22	23	24
	Score	50	500	50	70	100	40	50	200	50	40	100	70
Group 3	Position	1	BONUS	3	4	5	6	7	8	9	10	11	12
	Score	50	*	50	70	200	40	50	500	50	40	200	70
	Position	13	14	15	16	17	18	19	20	21	22	23	24
	Score	50	1000	50	70	200	40	50	500	50	40	200	70



Wheel score position picture

Stand-alone interface board:

ITEM	Content	Content
PWM1-6 (J15)	GND	Display-GND
	PWM1	Marquee
	PWM2	Front frame light
	PWM3	Link marquee
	PWM4	Display LAT
	PWM5	Display CLK
	PWM6	Display DAT
	12V	Display power
SPI(J16)	5V	Wheel motor 5V
	MOSI	Music RES
	MISO	Music CSB
	SCK	Music SCK
	NSS	Music SI
	GND	
I ² C(J14)	5V	Music 5V
	SDA	Music S0
	SCL	Music CB
	GND	Music GND

AD PART:

ITEM	Content	Content
(A/D)0 (J3)	+3.3V	
	AD0	Wheel motor
	GND	

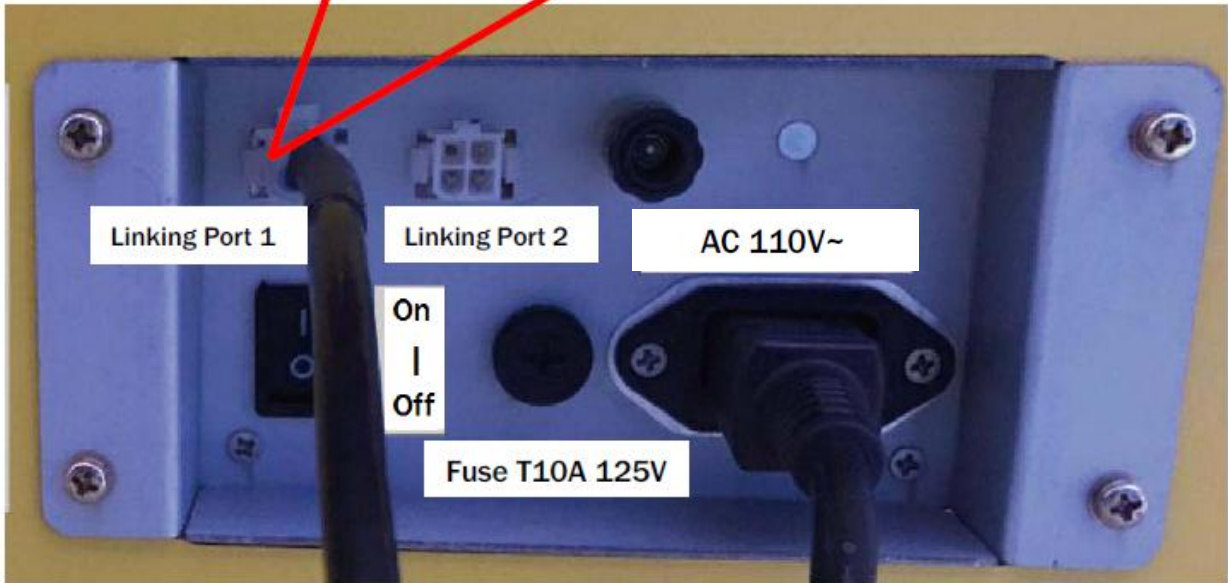
Communication :

ITEM	Content
COM1	Linking port
U port	

Error code:

Er16	Wheel motor reset error
Er18	Anti-cheating sensor error18
Er19	Send ball error
Er20	Ball out sensor error
Er21	Anti-cheating sensor error21

Linking



1. Utilize linking cable to connect two cabinets.(Link1 and Link2 are both available.)
2. Set one cabinet to be the host. Long press Settings button to enter into setting menu, short press the Settings button to choose the item, Test button+, Reset button-. Choose "A.021" and change it from "0" to "1".
3. Set the other linking units. Set "A.021" and change "0" to any number from "2" to "8".
(Number set to each unit should be unique)

Settings btn	Description		Defaults	Test/Reset btn	
A.021	Link	0=OFF,1-8=ON(link address, 1=host)	0	±1	Press Settings btn↓

7. TROUBLE SHOOTINGS

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.
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.	

If you see following error code showing on the display, please try therecommended action.

Error Code	Error	Possible cause	Recommended action
Er16	Wheel motor reset error	Wheel sensor fault	Change the sensor.
		Wheel assembly fault	Check the wheel.
Er18	Anti-cheating sensor error18	Player disturb the anti-cheating sensor.	Ask player to exit anti-cheating area.
		Sensor position incorrect	Change the sensor position.
Er19	Send ball error	Send ball assembly fault	Mend the send ball assembly.
		Stuff disturbs the send ball sensor.	Check and remove the stuff, long press the service btn till error code is cleared; or restart the machine.
Er20	Ball out sensor error	The track is blocked.	Check the track.
Er21	Anti-cheating sensor error21	Player disturb the anti-cheating sensor.	Ask player to exit anti-cheating area.
		Sensor position incorrect	Change the sensor position.

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

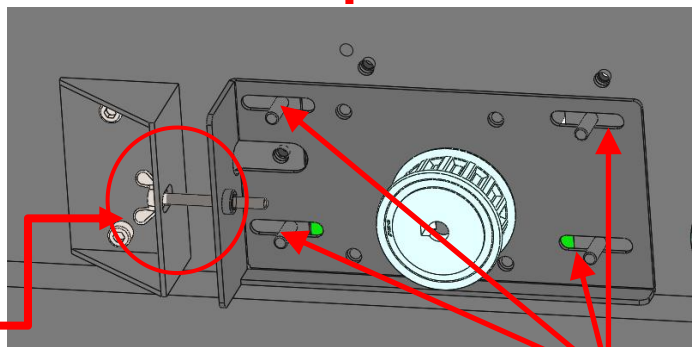
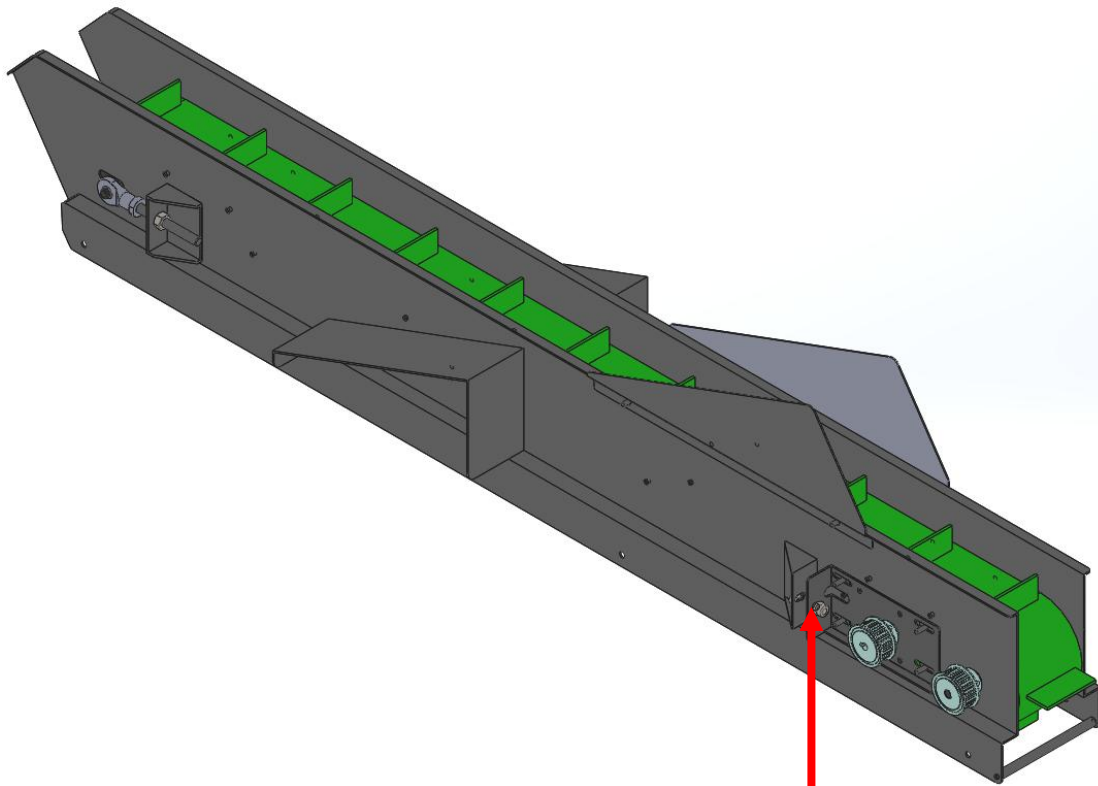
When installing or inspecting the machine, be very careful of the following points and pay attention to ensure that the player can enjoy the game safely.

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

 **NOTICE**

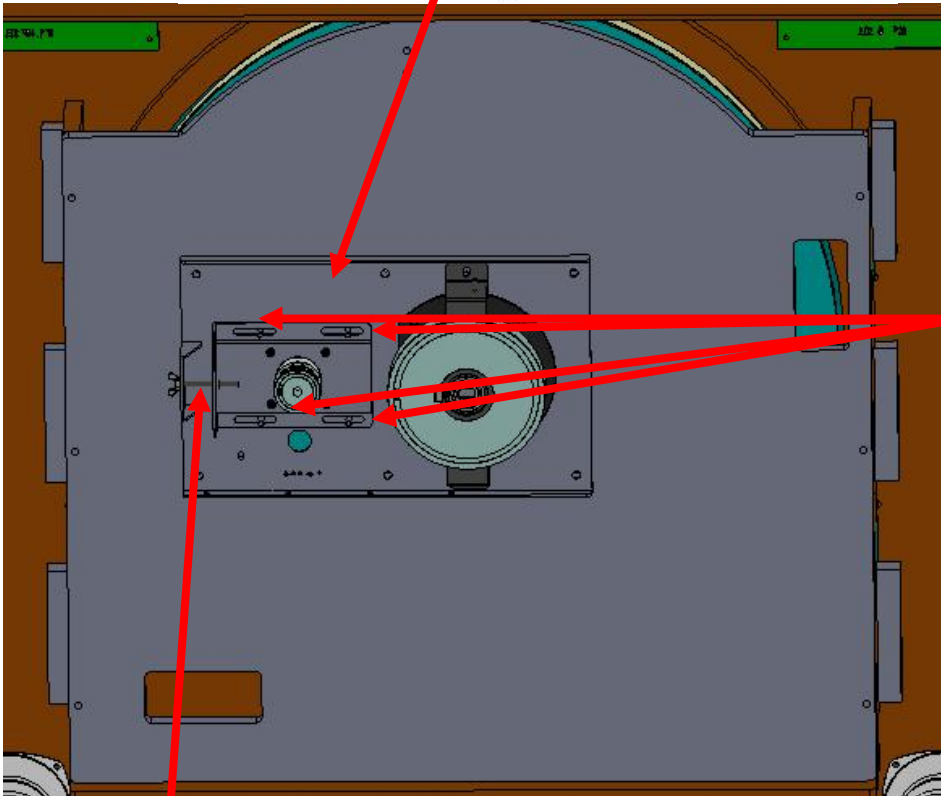
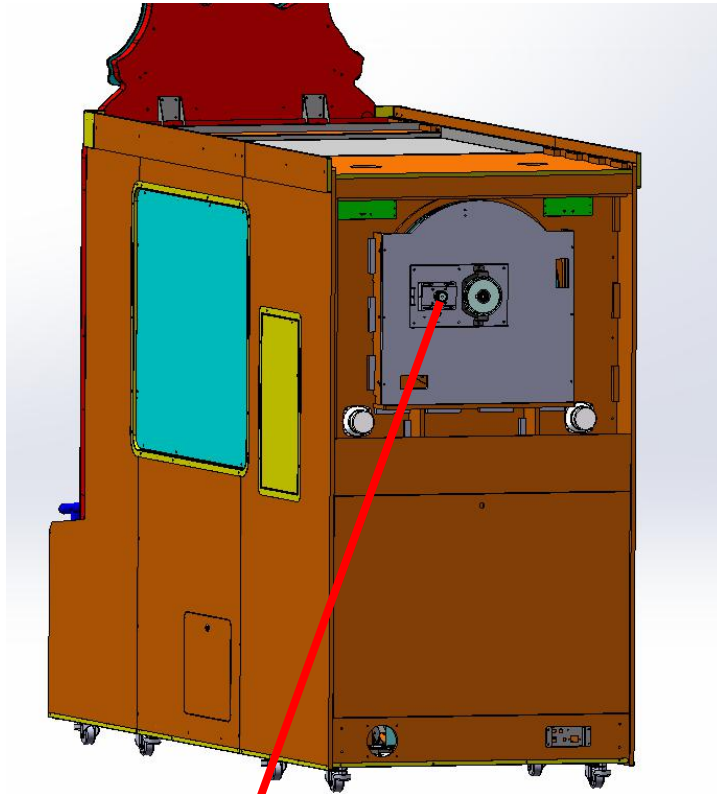
We do not recommend using power tools as they may cause damage.

8.3 Lane Maintenance



2. Adjust wing screw in CW direction to move the fixed plate to make the belt tight; if in CCW direction, the belt will become loose.

1. Loosen the nuts in CCW direction.

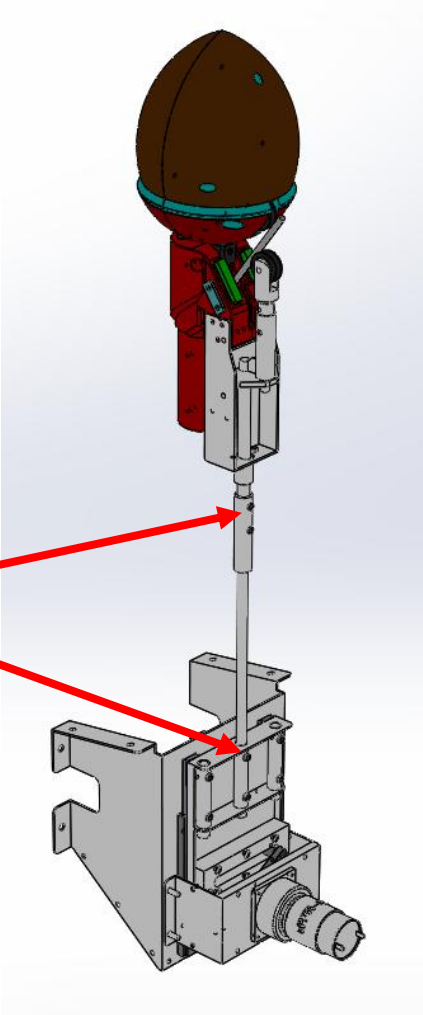


1. Loosen the nuts in CCW direction.

2. Adjust wing screw in CW direction to move the fixed plate to make the belt tight; if in CCW direction, the belt will become loose.

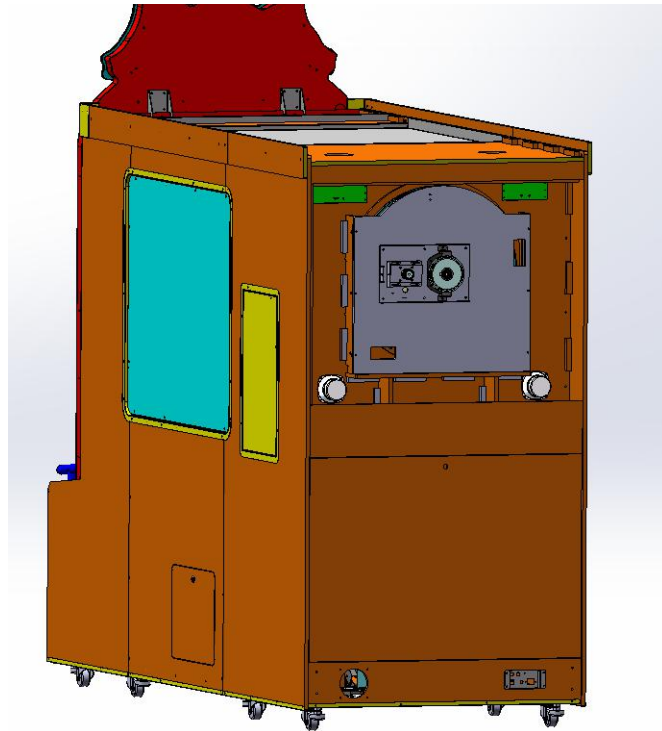
8.4 Coconut Height Adjustment

Loosen the screw to adjust rod and plate up and down.

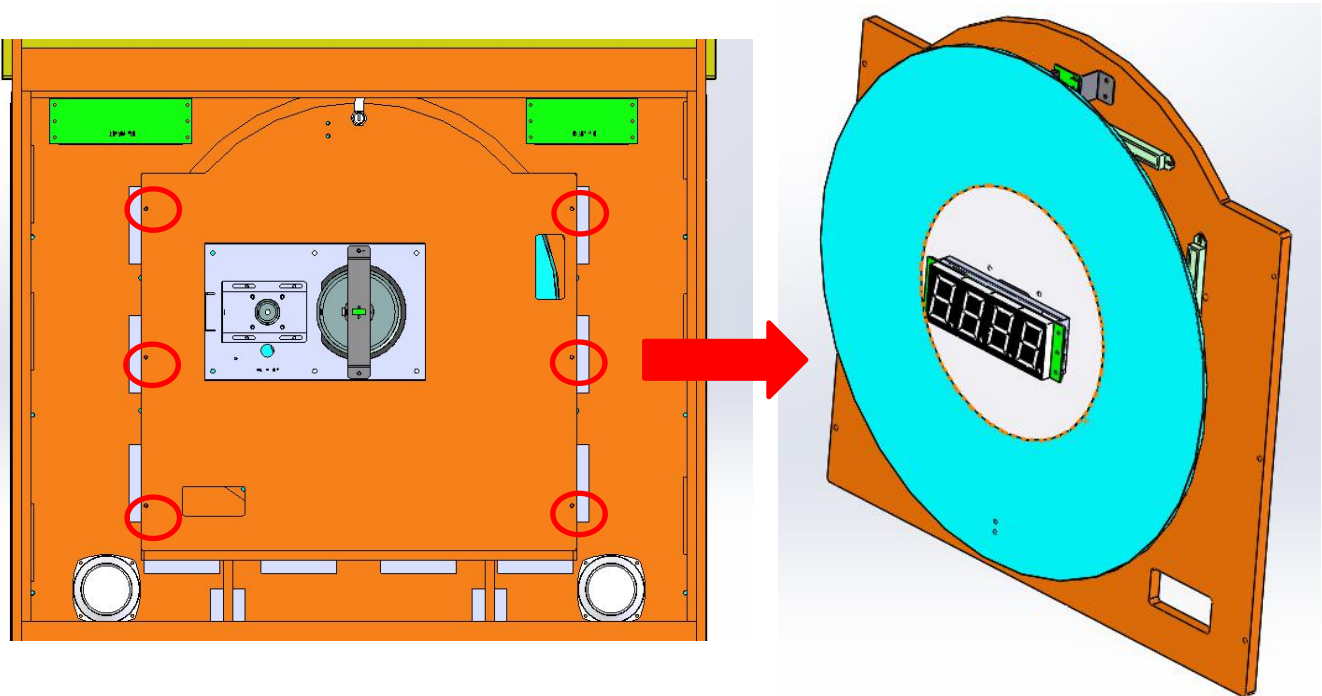


8.5 Wheel Decal Replacement

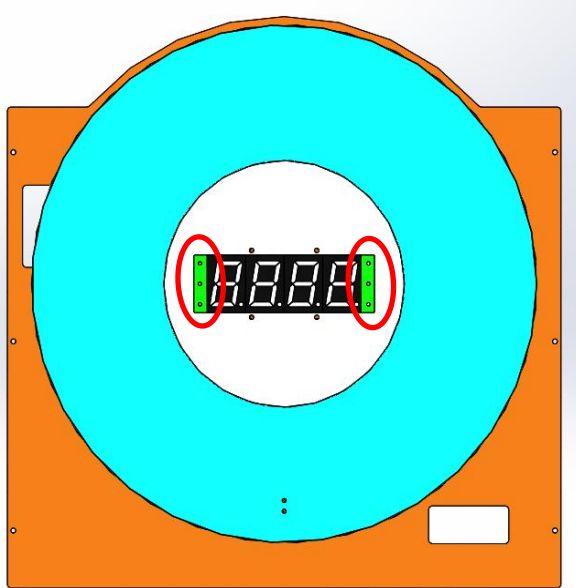
1. Locate the Top door at the back of the cabinet and open it.



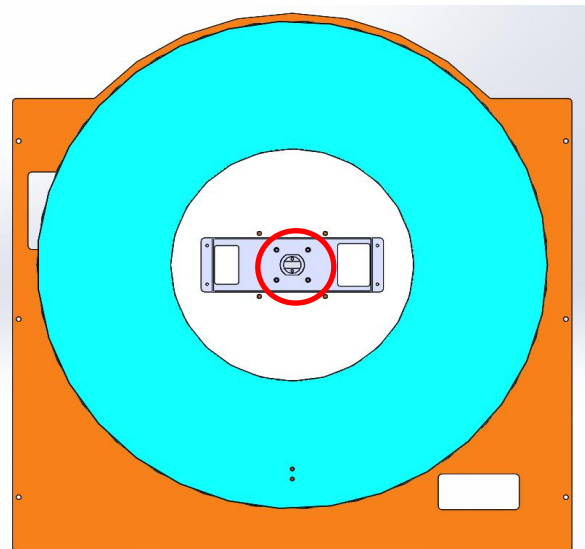
2. Remove the six screws indicated by circles to take out the Wheel assembly.



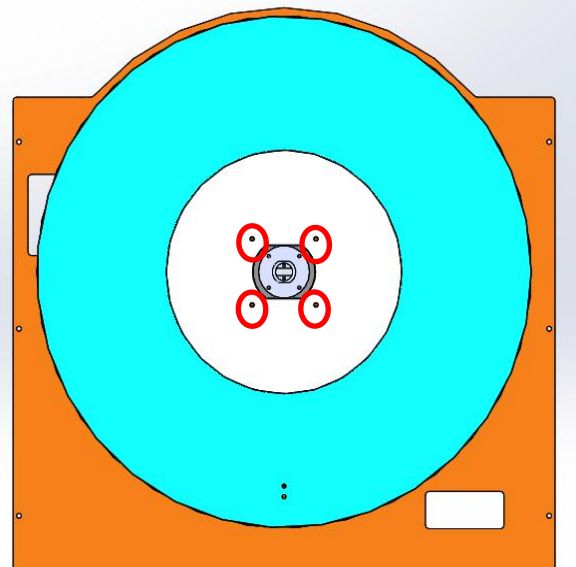
3. Loosen the screws to remove the display.



4. Loosen the screws to remove the display bracket.



5. Loosen the screws to remove the wheel decal and replace the new decal.



Wheel decal for Single version



Wheel decal for Linking version

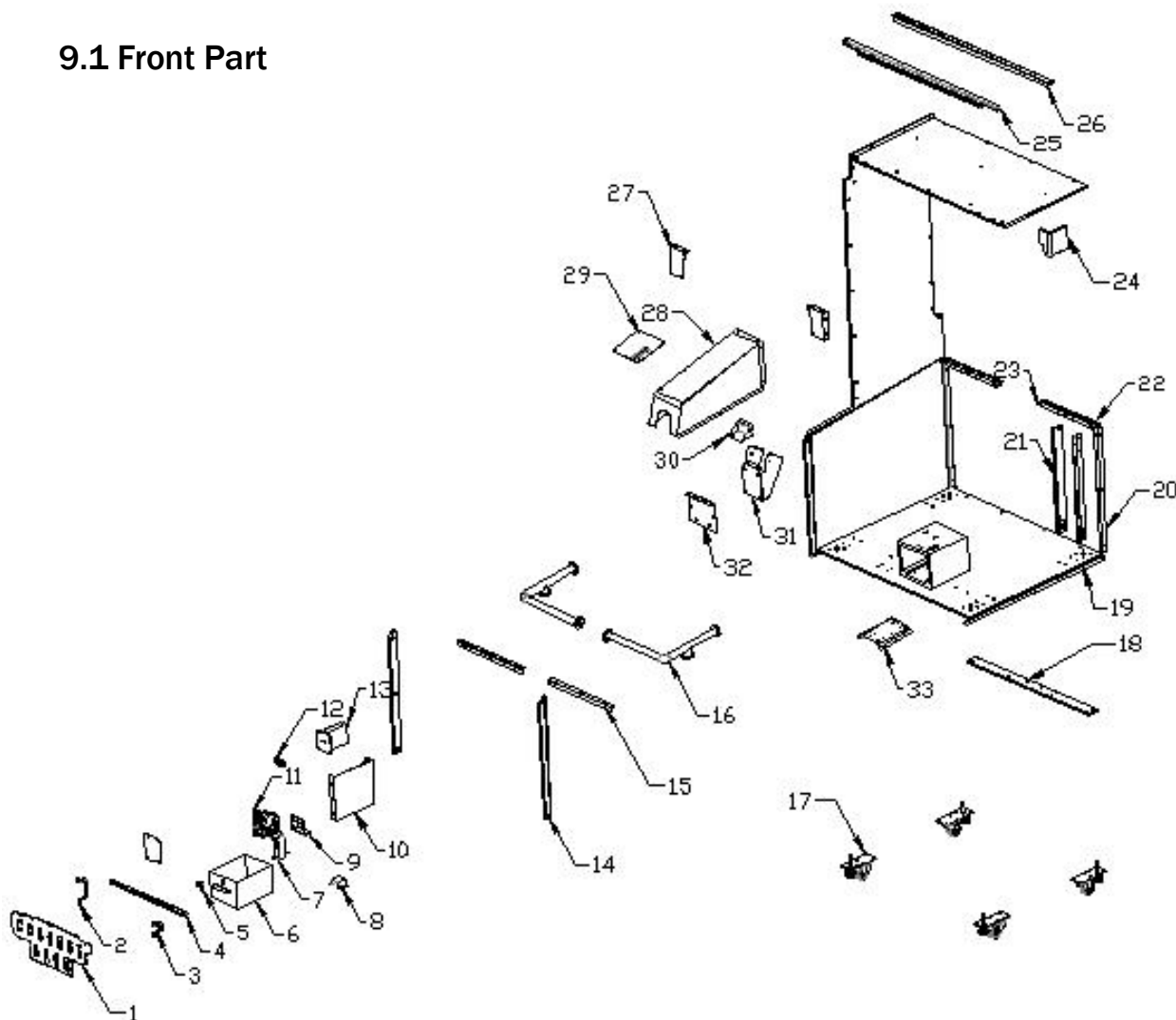


Please utilize transparent tape to stick the decal to the plastic.

6. Install the components back in reverse order.

9. OVERALL CONSTRUCTION

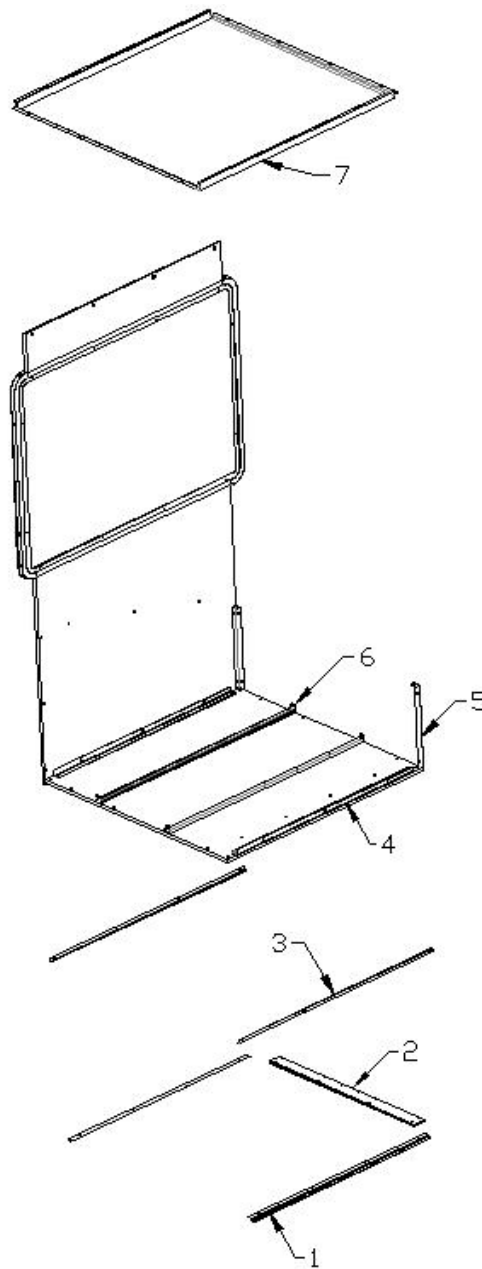
9.1 Front Part



No.	Part No.	Code No.	Name	Qty
1	C146-728-000	20511702014	Control panel decal	1
2	C146-137-000	20211702091	Front door L bracket	1
3	C146-136-000	20211702090	Front door R bracket	1
4	C146-449-001	22003080031	5630 light	1
5	C146-475-000	25300172001	Lock	1
6	C146-147-000	20211702028	Coin box	1
7	C146-134-001	20211702023A	Coin slot	1
8	C146-131-000	20211702089	Power supply fix bracket	1
9	C146-107-000	26000044000	Meter bracket	1
10	C146-102-000	26000006000	Ticket box	1
11	C146-422-000	22301000002	Coin mech	1
12	C146-108-000	26000051000	Ticket cover	1
13	C146-423-000	23100000005	Ticket dispenser	1
14	C146-605-000	20611702002	Control panel L side plastic	1
	C146-606-000	20611702003	Control panel R side plastic	1

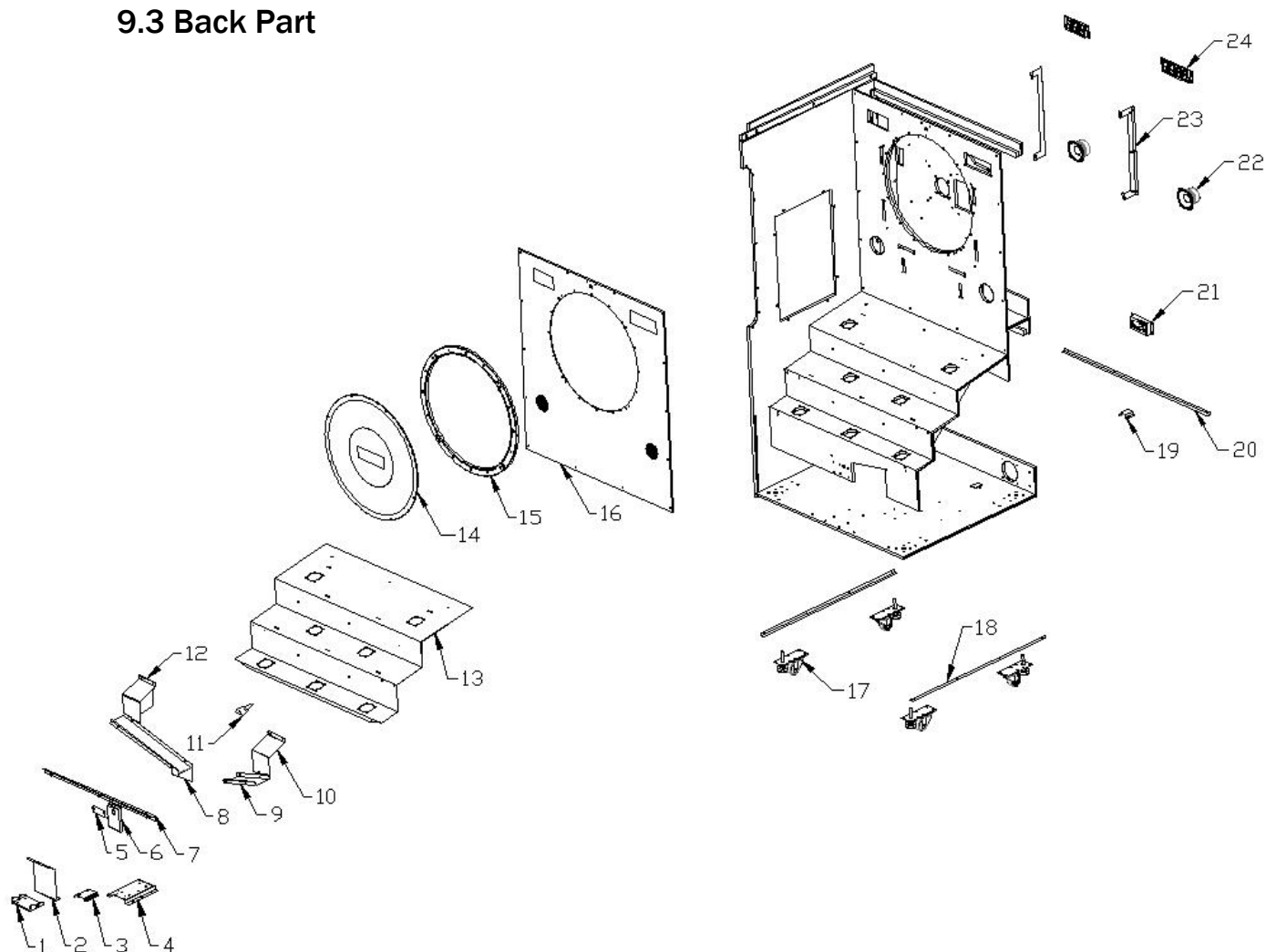
No.	Part No.	Code No.	Name	Qty
15	C146-145-000	20211702096	Front L reinforced plate	1
	C146-146-000	20211702097	Front R reinforced plate	1
16	C146-602-001	20211702078A	L fender	1
	C146-603-001	20211702079A	R fender	1
17	C146-104-000	26000010000	Cabinet leveller bracket	4
	C146-103-000	26000008000	Cabinet leveller	4
	C146-476-001	25501000047	2.5' caster	4
18	C146-113-000	20211702006	Bottom middle connect plate	1
19	C146-222-000	20211702065	T molding	2
20	C146-114-000	20211702007	Middle front connect plate	2
21	C146-188-000	20211702043	Fix bracket	2
22	C146-116-000	20211702009	Ball track top fix plate	2
23	C146-143-000	20211702094	Front reinforced plate	2
	C146-224-000	20211702067	T molding-R	1
24	C146-223-000	20211702066	T molding-L	1
25	C146-121-000	20211702014	Marquee plate	1
26	C146-144-000	20211702095	Front top reinforced plate	1
27	C146-122-000	20211702015	L front triangle plate	1
	C146-123-000	20211702016	R front triangle plate	1
28	C146-110-001	20211702B001	Ball track front cover	1
29	C146-719-001	20511702005A	Score decal	1
30	C146-120-000	20211702013	Ball plate	1
31	C146-118-000	20211702011	Front fix bracket	1
32	C146-142-000	20211702093	Front bracket fix plate	1
33	C146-128-001	20211702086A	Power supply bracket	1

9.2 Middle Part



No.	Part No.	Code No.	Name	Qty
1	C146-220-000	20211702063	Middle support plate	2
2	C146-113-000	20211702006	Bottom middle connect plate	2
3	C146-222-000	20211702065	T molding	2
4	C146-219-000	20211702062	Middle connect plate	2
5	C146-115-000	20211702008	Middle back connect plate	2
6	C146-221-000	20211702064	Middle reinforced plate	2
7	C146-109-001	20311702044	Middle top cover plate	1

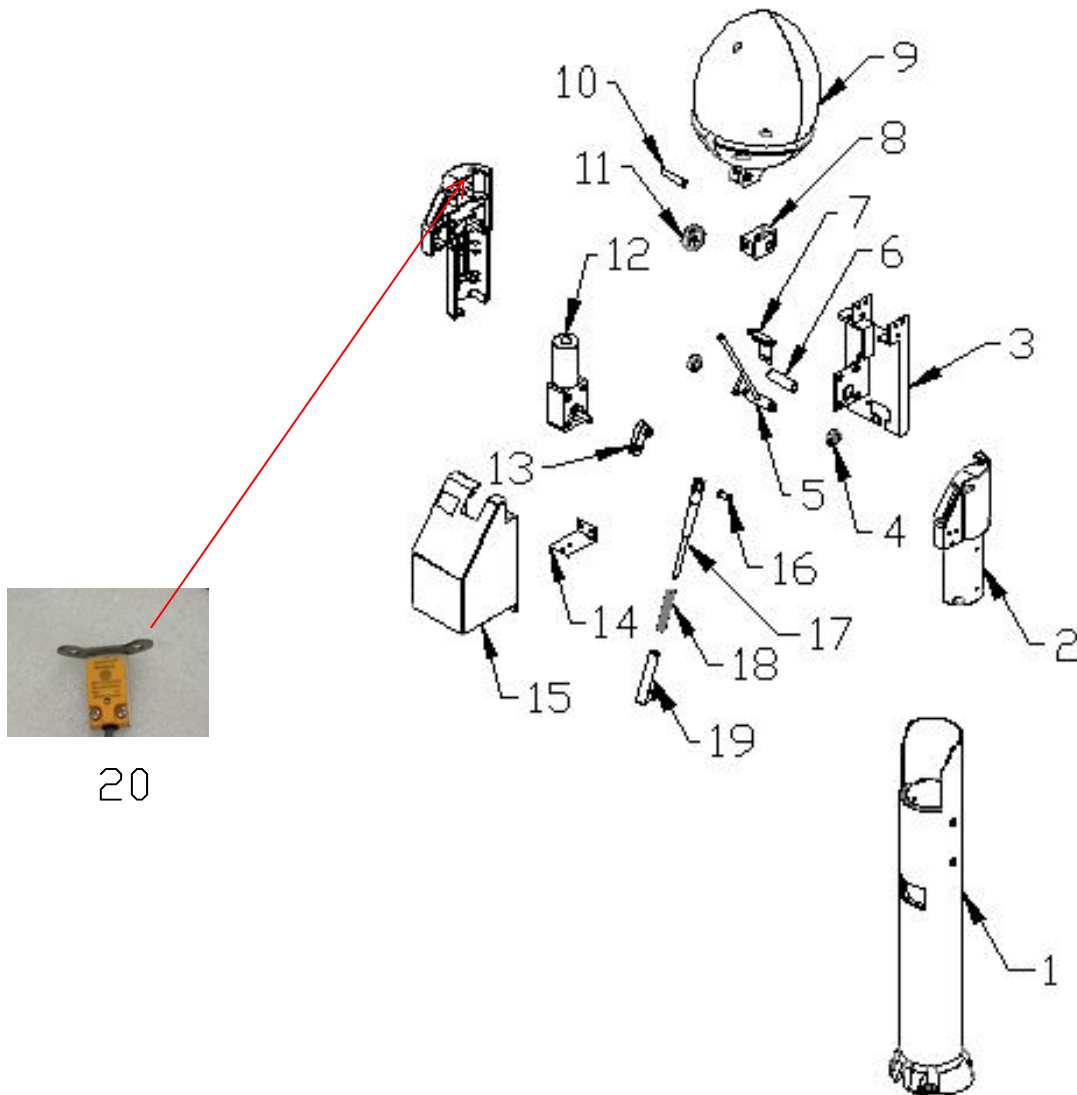
9.3 Back Part



No.	Part No.	Code No.	Name	Qty
1	C146-119-000	20211702012	Bottom fix bracket	1
2	C146-607-000	20611702016	Baffle	1
3	C146-101-000	20211603D104A	Relay bracket	1
4	C146-128-000	20211702086	Power supply bracket	1
5	C146-127-000	20211702020	Small ball plate	1
6	C146-126-000	20211702019	Anti-ball blocking plate	1
7	C146-117-000	20211702010	Ball track bottom fix plate	1
8	C146-124-000	20211702017	L ball plate	1
9	C146-125-000	20211702018	R ball plate	1
10	C146-133-000	20211702022	R baffle	1
11	C146-613-000	20611702010	Ball block bracket	7
12	C146-132-000	20211702021	L baffle	1
13	C146-111-001	20211702002A	Stair top cover plate	1
	C146-112-001	20211702003A	Stair bottom cover plate	1
14	C146-715-000	20511702002	Turnplate cover decal	1
15	C146-604-000	20611702001	Turnplate plastic	1
16	C146-714-000	20511702001	Main decal	1

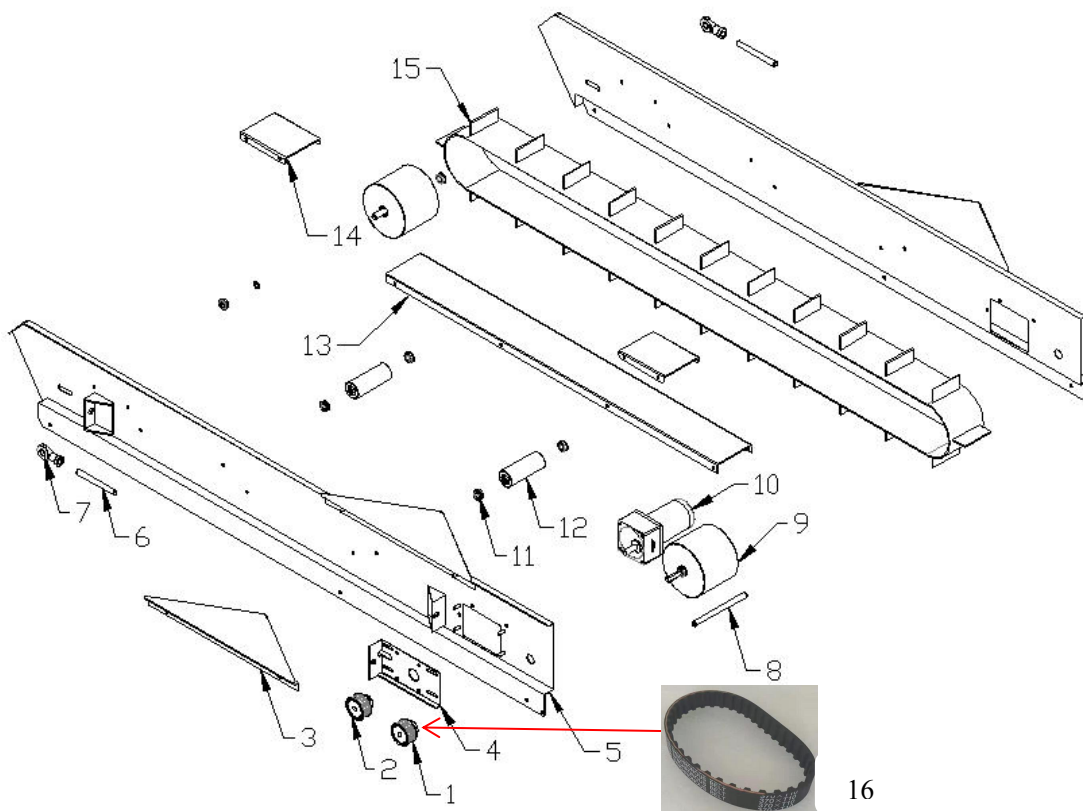
No.	Part No.	Code No.	Name	Qty
17	C146-104-000	26000010000	Cabinet leveller bracket	4
	C146-103-000	26000008000	Cabinet leveller	4
	C146-476-001	25501000047	2.5' caster	4
18	C146-139-000	20211702026	T molding	2
19	C146-101-000	20211603D104A	Relay bracket	1
20	C146-138-000	20211702025	T molding	1
21	C146-106-001	26000042000B	Power box assembly	1
22	C146-426-000	22801000085	Speaker	2
23	C146-149-000	20211702098	Turnplate fix bracket	2
24	C146-439-000	29741112002	Display	2

9.4 Coconut Assembly



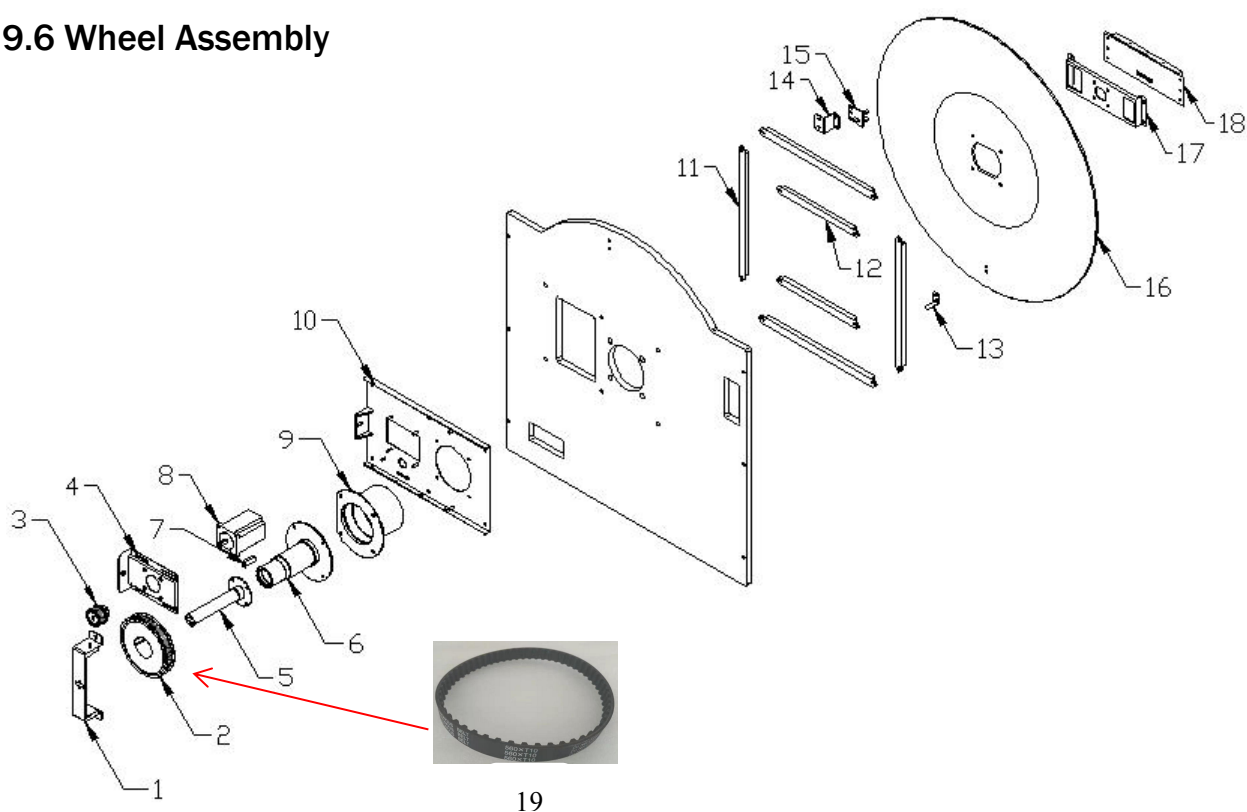
No.	Part No.	Code No.	Name	Qty
1	C146-150-001	20611702007A	Coconut fix post	1
	C146-280-000	20611702B002	Clear light cover	1
2	C146-151-001	20611702008A	Fix bracket-L	1
	C146-152-001	20611702009A	Fix bracket-R	1
3	C146-266-000	20211702139	Motor bracket	1
4	C146-463-000	20106000002	BR	2
5	C146-268-000	20211702141	Push rod	1
6	C146-272-000	20211702145	Coconut shaft	1
7	C146-276-000	20211702149	Sensor top fixed plate	1
8	C146-278-000	20211702151	Reinforce cover	1
9	C146-608-000	20611702012	Coconut shell 1(front)	1
	C146-609-000	20611702013	Coconut shell 2(back)	1
	C146-277-000	20211702150	Inner light fixed plate	1
10	C146-279-000	20211702152	Pulley shaft	1
11	C146-468-000	20106100149	U type BR	1
12	C146-471-000	23404000243	DC motor	1
13	C146-270-000	20211702143	Rotation shaft block	1
14	C146-275-000	20211702148	Sensor bottom fixed plate	1
15	C146-267-000	20211702140	Cover	1
16	C146-273-000	20211702146	Push rod pin	1
17	C146-271-000	20211702144	Damping rod	1
18	C146-274-000	20211702147	Damping spring	1
19	C146-269-000	20211702142	Damping rod sleeve	1
20	C146-428-000	22601020003	SW	2

9.5 Send Ball Assembly



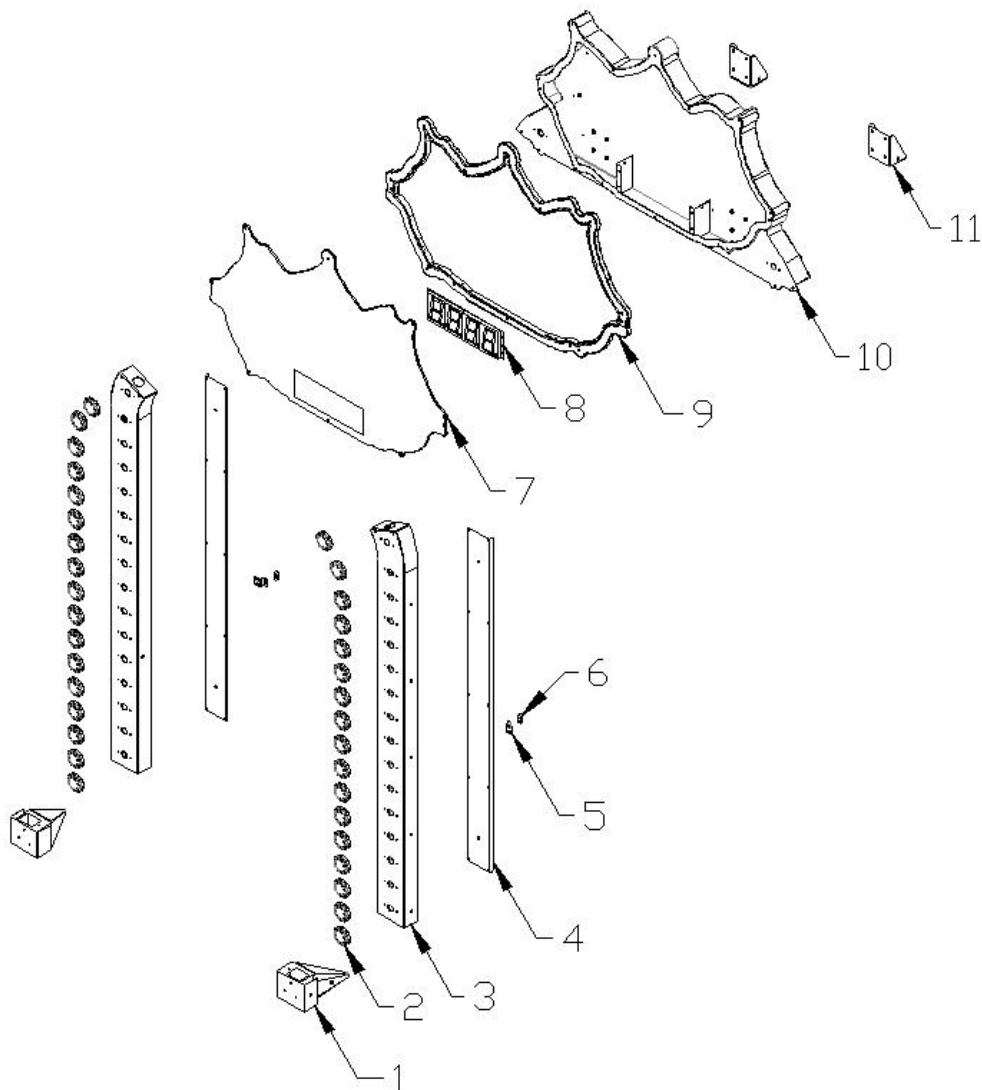
No.	Part No.	Code No.	Name	Qty
1	C146-186-000	20211702116	Driven synchronous wheel	1
2	C146-187-000	20211702117	Driving synchronous wheel	1
3	C146-176-000	20211702035	R baffle 2	1
4	C146-181-000	20211702102	Top motor fix plate	1
5	C146-175-000	20211702034	R baffle 1	1
6	C146-483-000	20104000042	hexagon bolt	2
7	C146-467-000	20106080316	BR	2
8	C146-189-000	20211702084	Connect axle	1
9	C146-182-000	20211702040	Driving wheel	1
10	C146-470-000	23404000238	DC motor	1
11	C146-465-000	20106000320	Flange BR	8
12	C146-178-000	20211702037	Roller	2
13	C146-180-000	20211702039	Connect plate	1
14	C146-177-000	20211702036	Reinforced plate	2
15	C146-616-000	20611702011	Ball belt	1
16	C146-479-000	26504020001	Toothed belt	1

9.6 Wheel Assembly



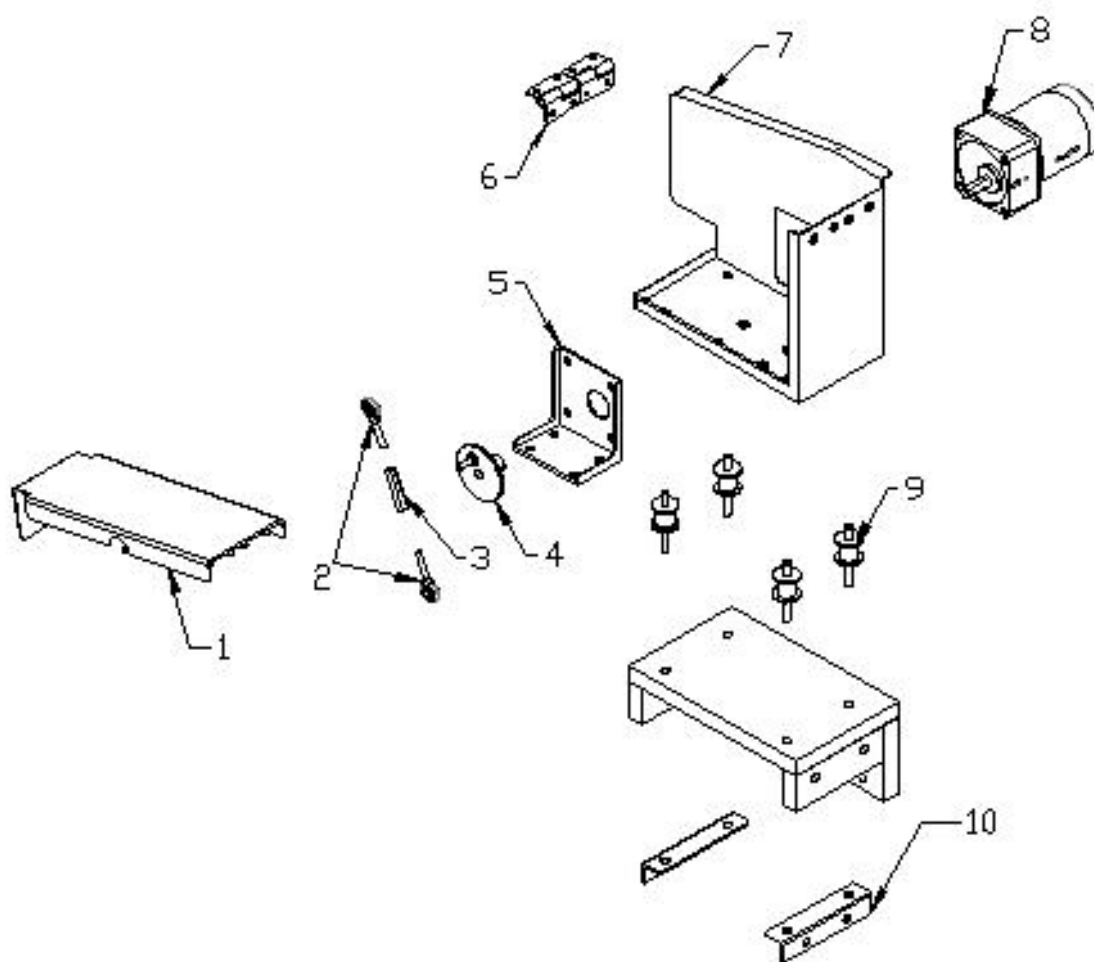
No.	Part No.	Code No.	Name	Qty
1	C146-194-000	20211702047	Inside axle sleeve bracket	1
2	C146-201-000	20211702119	Driving synchronous wheel	1
3	C146-200-001	20211702118A	Driven synchronous wheel	1
4	C146-196-000	20211702104	Turnplate motor mounting plate	1
5	C146-192-000	20211702046	Inside axle sleeve	1
6	C146-197-000	20211702049	Middle axle sleeve	1
7	C146-199-000	20211702080	Flat key	1
8	C146-472-000	23406000007	Stepping motor	1
9	C146-198-000	20211702050	Out axle sleeve	1
10	C146-195-000	20211702048	Turnplate fix plate	1
11	C146-448-001	22003080028	5630 light	4
12	C146-447-001	22003080026	5630 light	2
13	C146-203-000	20211702106	Sensor plate	1
14	C146-202-000	20211702105	Sensor fix plate	1
15	C146-441-000	21501000013	Sensor SW	1
16	C146-715-000	20511702002	Turnplate cover decal	1
17	C146-193-000	20211702103	Turnplate display bracket	1
18	C146-439-000	29741112002	Display	2
19	C146-480-000	26504020002	Toothed belt	1

9.7 Front Marquee



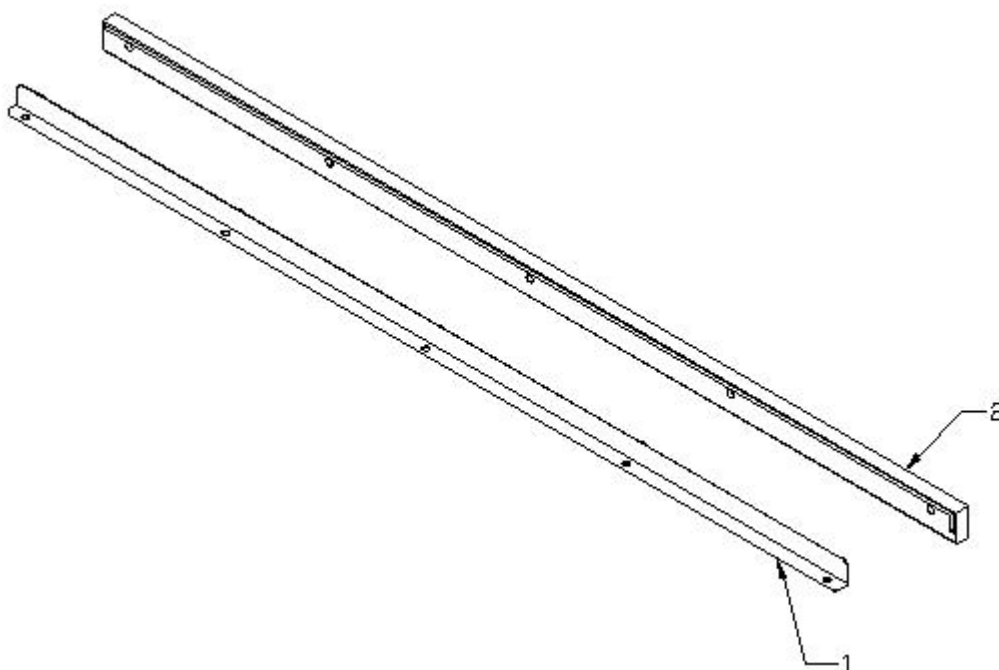
No.	Part No.	Code No.	Name	Qty
1	C146-209-000	20211702056	Base-L	1
	C146-210-000	20211702057	Base-R	1
2	C146-453-000	22003130002	JN55 light	34
3	C146-204-000	20211702051	Front light plastic-L	1
	C146-205-000	20211702052	Front light plastic-R	1
4	C146-207-000	20211702054	Front light cover	2
5	C146-211-000	20211702107	Front light sensor plate	2
6	C146-442-000	21503000052	Sensor SW(send)	1
	C146-443-000	21503000053	Sensor SW(receive)	1
7	C146-716-000	20511702003	Marquee decal	1
8	C146-439-000	29741112002	Display	2
9	C146-617-000	20611702004	Front light plastic	1
10	C146-206-000	20211702053	Front light plastic-Top	1
11	C146-208-000	20211702055	Marquee fix bracket	2

9.8 Shake Ball Assembly



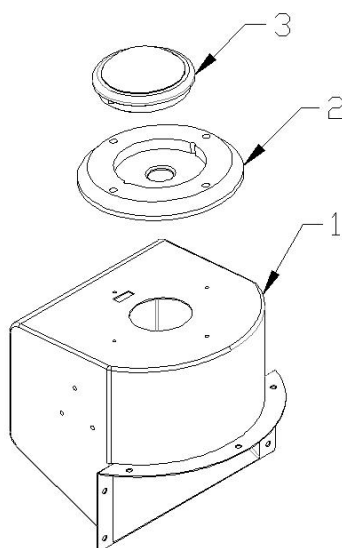
No.	Part No.	Code No.	Name	Qty
1	C146-215-001	20211702060A	Shake ball plate	1
2	C146-495-000	20106080312	End bearing	2
3	C146-284-000	20211702155	Nut rod	1
4	C146-216-001	20211702061A	Eccentric shaft	1
5	C146-214-001	20211702108A	Motor base	1
6	C146-478-000	26300020034	Hinge	2
7	C146-212-001	20211702058A	Fix bracket	1
8	C146-469-001	23404000254	DC motor	1
9	C146-105-000	20231001054	Shake proof screw A	4
10	C146-213-001	20211702059A	Middle base reinforced plate	2

9.9 Front Light



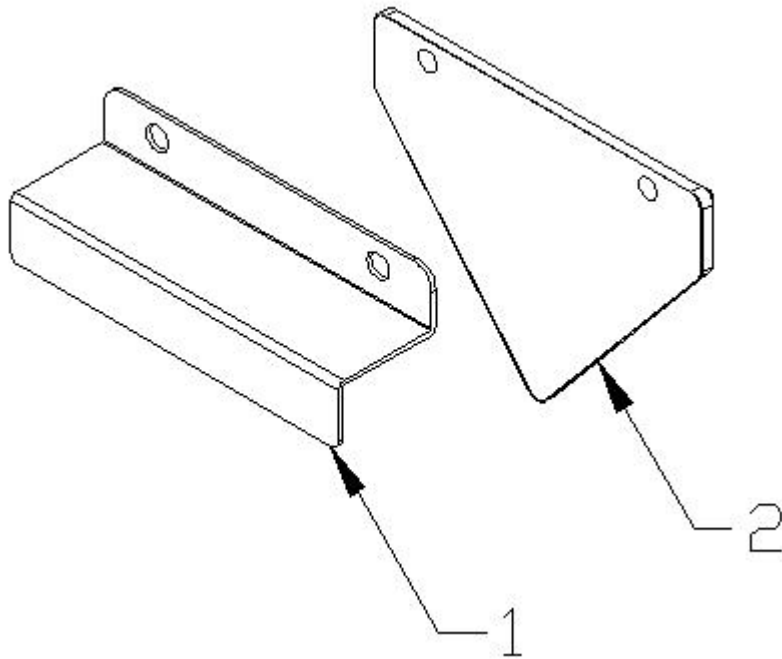
No.	Part No.	Code No.	Name	Qty
1	C146-225-000	20211702068	Front light plate	1
2	C146-618-000	20611702005	Front light plastic	1

9.10 Bonus Button



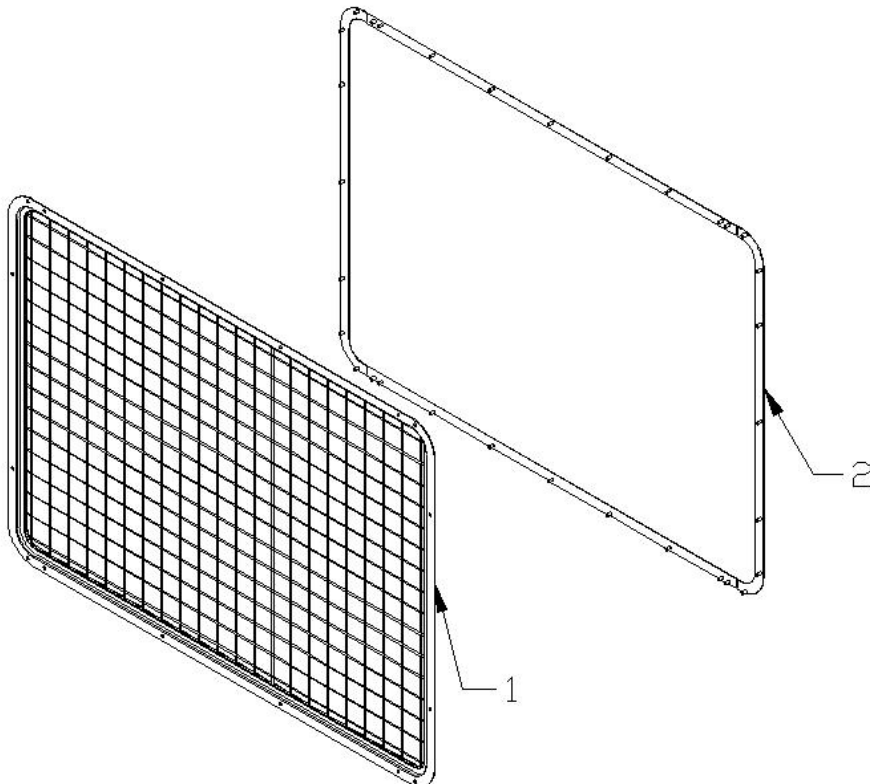
No.	Part No.	Code No.	Name	Qty
1	C146-226-000	20211702069	Button box	1
2	C146-619-000	20611702006	Button box plastic	1
3	C146-418-000	22401150005A	Blue button	1

9.11 Pointing Arrow



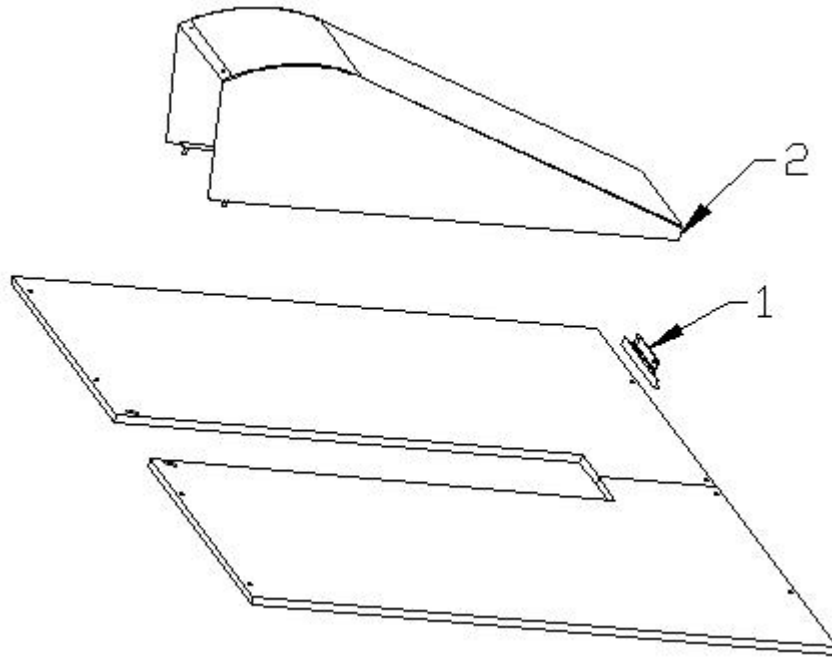
No.	Part No.	Code No.	Name	Qty
1	C146-227-000	20211702070	Arrow fix plate	1
2	C146-620-000	20611702018	Arrow	1

9.12 L/R Windows



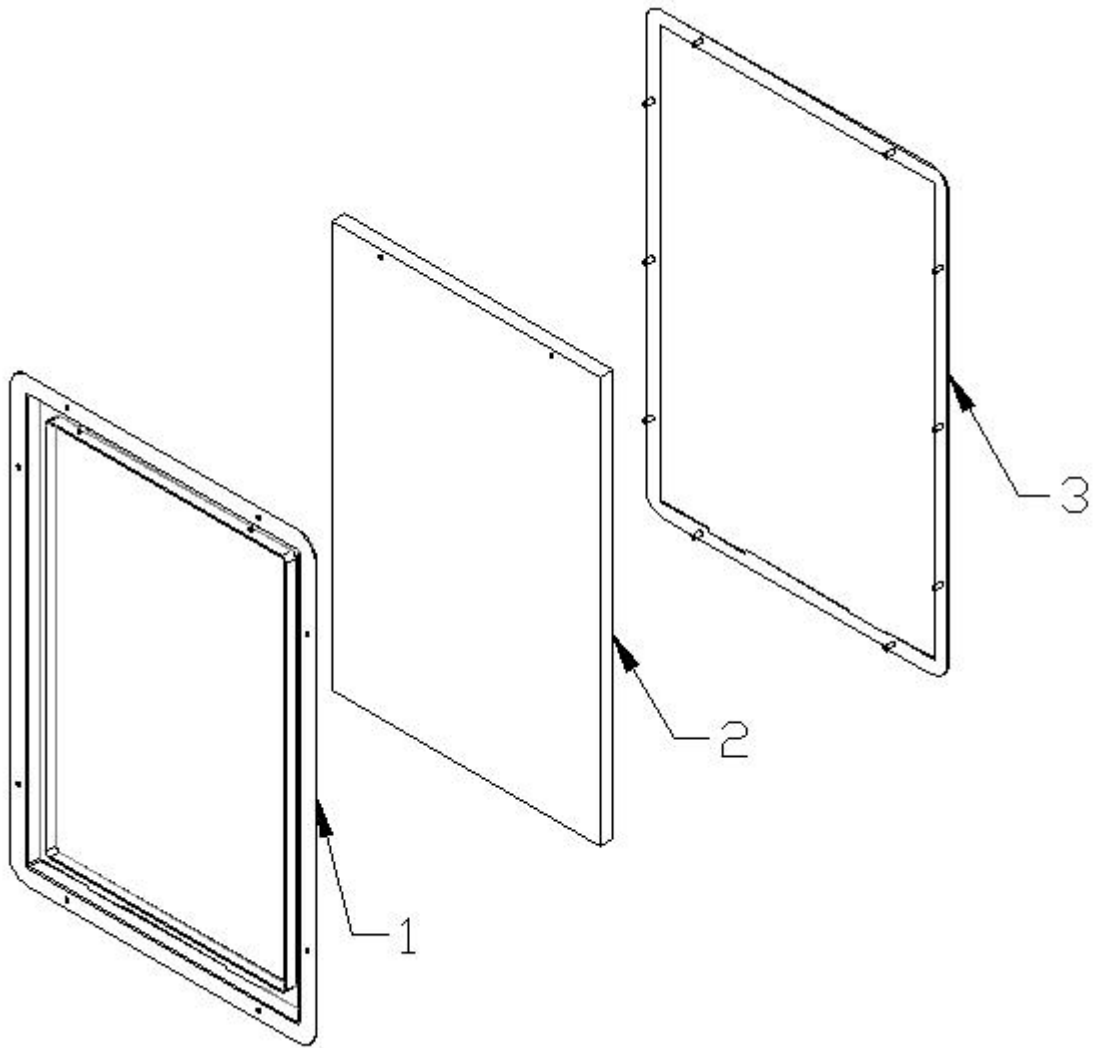
No.	Part No.	Code No.	Name	Qty
1	C146-265-000	20211702137	L&R window net	1
2	C146-230-001	20211702072A	Window frame up&dn fix plate	2
	C146-231-000	20211702073	Window frame L&R fix plate	2

9.13 Ball Out Assembly



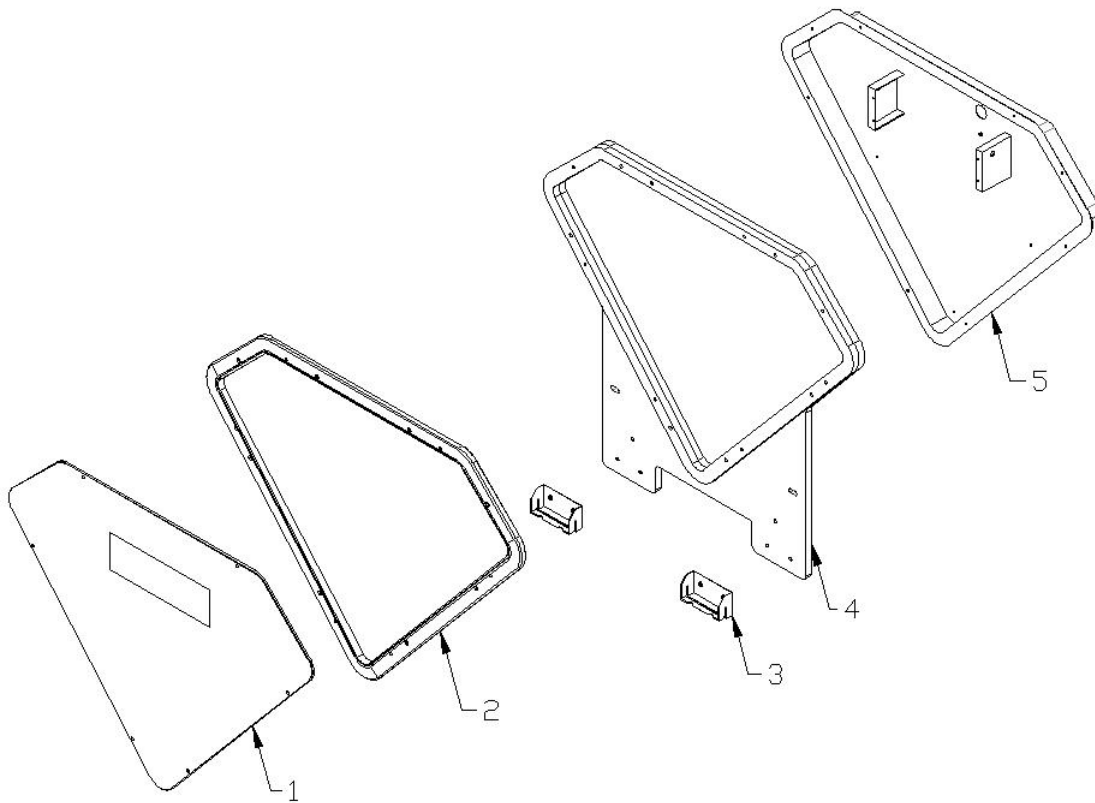
No.	Part No.	Code No.	Name	Qty
1	C146-233-000	20211702075	Metal plate 1	1
2	C146-232-000	20211702074	Ball track back cover	1

9.14 Backdoor



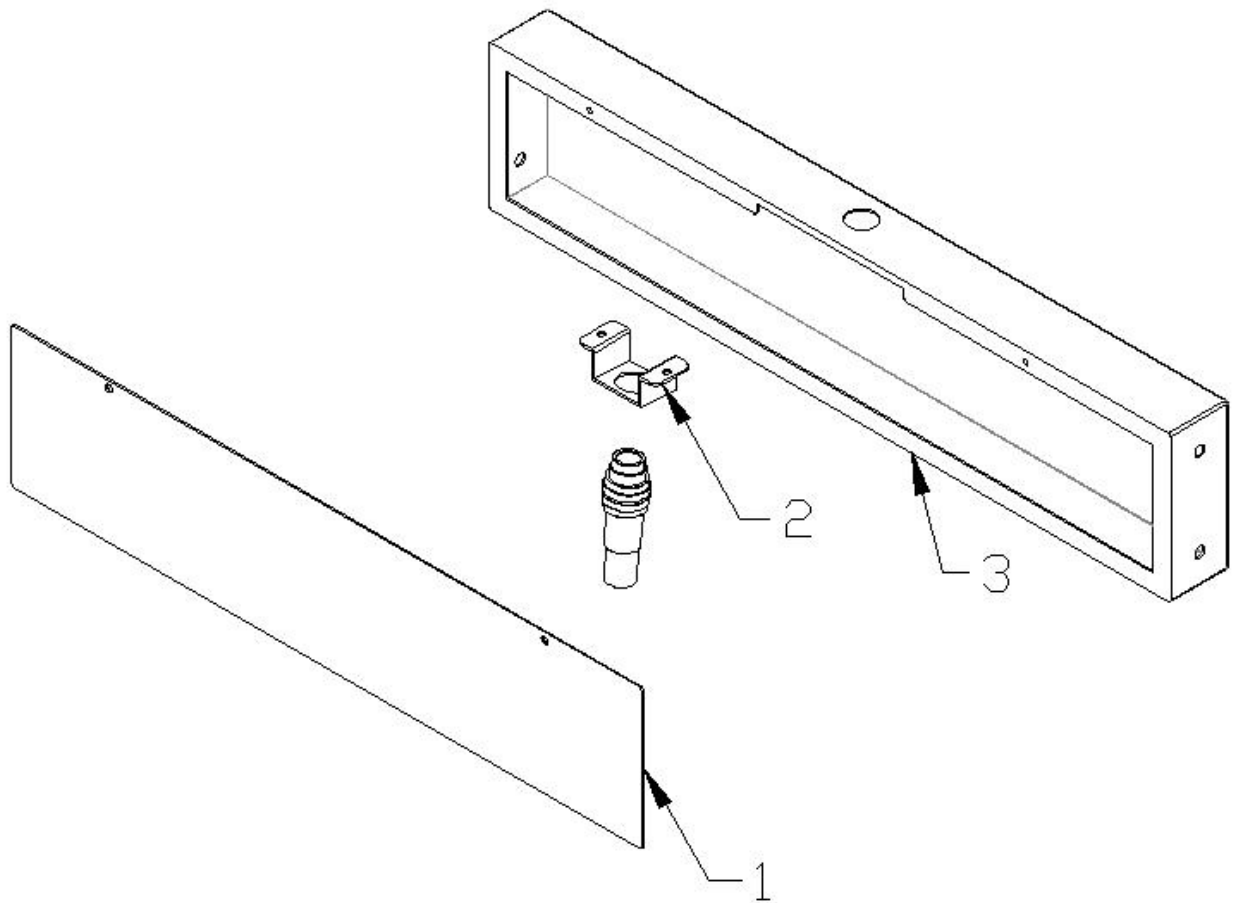
No.	Part No.	Code No.	Name	Qty
1	C146-235-000	20211702076	Service door frame	1
2	C146-236-000	20211702077	Service door	1
3	C146-264-000	20211702138	Service door bar	1

9.15 Large Marquee



No.	Part No.	Code No.	Name	Qty
1	C146-720-000	20511702006	Large marquee decal	1
2	C146-238-000	20611702020	Large marquee plastic	1
3	C146-239-000	20211702121	Large marquee bracket	2
4	C146-501-000	29911702021	Large marquee back plate	1
5	C146-237-000	20211702120	Marquee back bracket	1

9.16 Sensor Bar Assembly

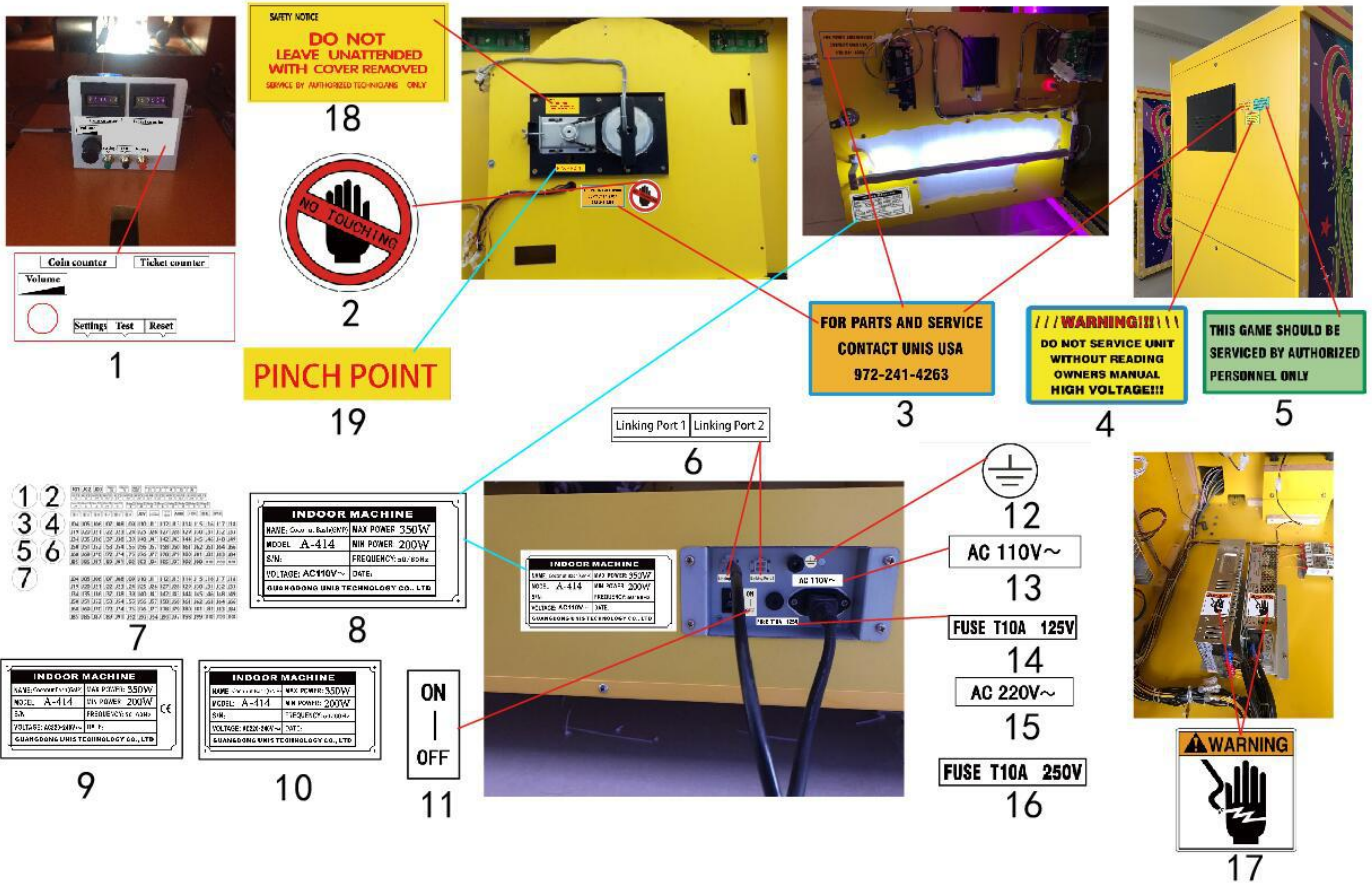


No.	Part No.	Code No.	Name	Qty
1	C146-260-000	20211702B005	Sensor cover	2
2	C146-261-000	20211702B006	Sensor plate	2
3	C146-262-000	20211702B003	Sensor L box	1
	C146-263-000	20211702B004	Sensor R box	1

Artwork Part



No.	Part No.	Code No.	Name	Qty
1	C146-733-000	20511702019	Turntable score decal	1
2	C146-714-000	20511702001	Main decal	1
3	C146-730-000	20511702016	Top decal	1
4	C146-724-000	20511702010	L side back decal	1
5	C146-723-000	20511702B009	L side middle decal	1
6	C146-722-000	20511702008	L side door decal	1
7	C146-725-000	20511702011	R side front decal	1
8	C146-726-000	20511702B012	R side middle decal	1
9	C146-727-000	20511702013	R side back decal	1
10	C146-715-000	20511702002	Turnplate cover decal	1
11	C146-728-000	20511702014	Control panel decal	1
12	C146-702-000	25600000108	Ticket label	1
13	C146-718-000	20511702B004	Front door decal	1
14	C146-731-000	20511702017	Button decal	1
15	C146-721-000	20511702007	Front door decal	1
16	C146-719-001	20511702005A	Score decal	1
17	C146-732-001	20511702018A	Ticket table decal	1
18	C146-729-000	20511702015	Ball track decal	1
19	C146-738-001	20511702024A	Score decal(to activate turnplate)	1
20	C146-717-000	20511702B003	Marquee decal	1
21	C146-741-000	20511702027	Back cover decal	1



No.	Part No.	Code No.	Name	Qty
1	C146-701-000	25600000101	Meter label	1
2	C146-704-000	25600000033	No touching label	1
3	C146-713-000	25600000095	Service label	1
4	C146-707-000	25600000067	Service label	1
5	C146-706-000	25600000042	Service label 1	1
6	C146-739-000	20511702025	Link label	1
7	C146-737-001	20511702023A	Wiring label	1
8	C146-736-000	20511702B022	110 nameplate	1
9	C146-735-000	20511702B021	220V nameplate	2
10	C146-734-000	20511702B020	220V nameplate	1
11	C146-703-000	25600000016	Power SW A label	1
12	C146-712-000	25600000091	GND label	1
13	C146-708-000	25600000071	110V label	1
14	C146-711-000	25600000083	Fuse label	1
15	C146-709-000	25600000072	220V label	1
16	C146-710-000	25600000077	Fuse label	1
17	C146-705-000	25600000036	Warning label	1
18	C146-743-000	20551507D012	Service label	1
19	C146-742-000	20511702028	Warning label	1

**Caution
Pinch Point**

1



NO ENTRY

2

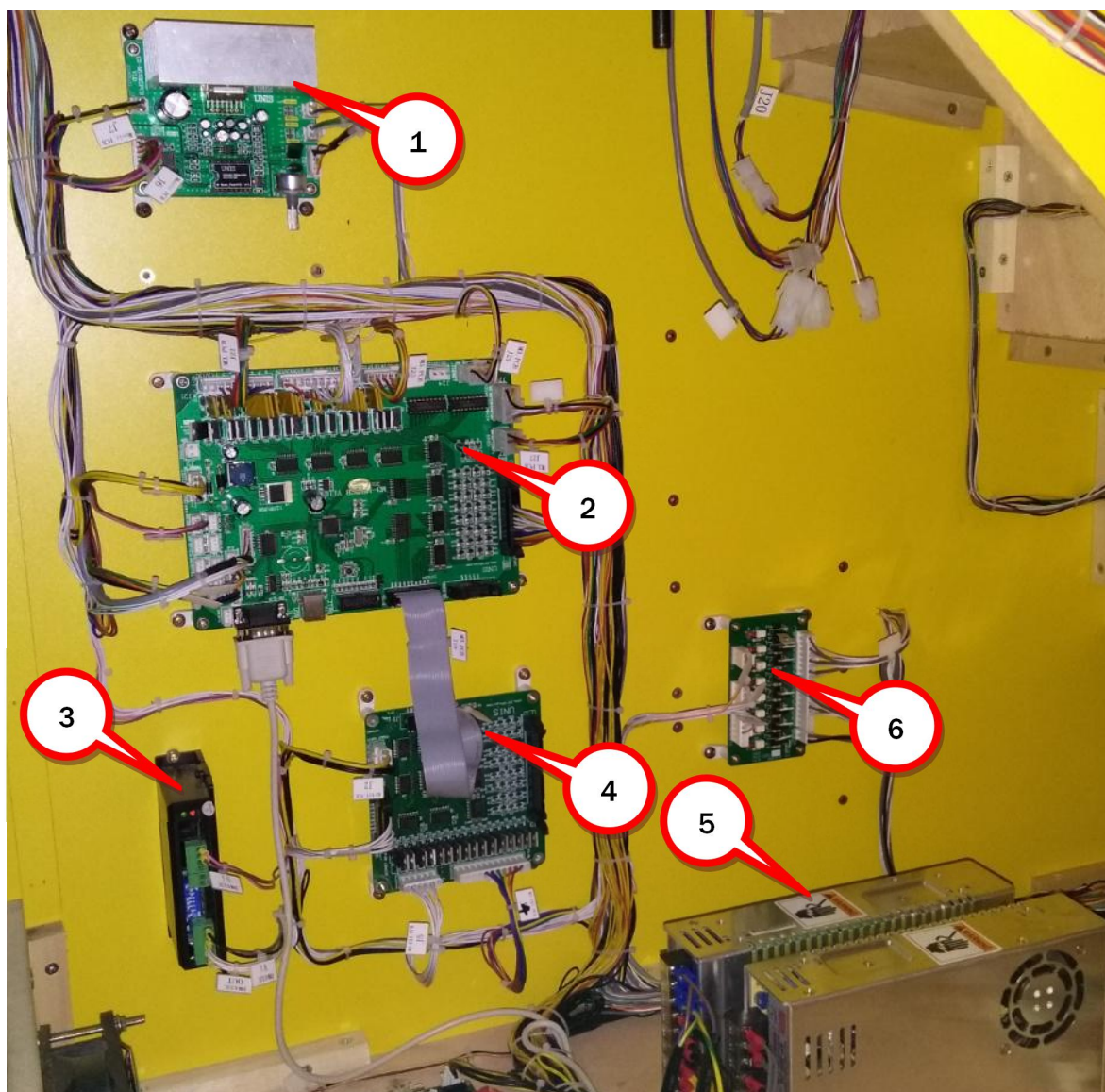
No.	Part No.	Code No.	Name	Qty
1	C146-745-000	20511702030	Caution label	1
2	C146-744-000	20511702029	No Entry decal	2



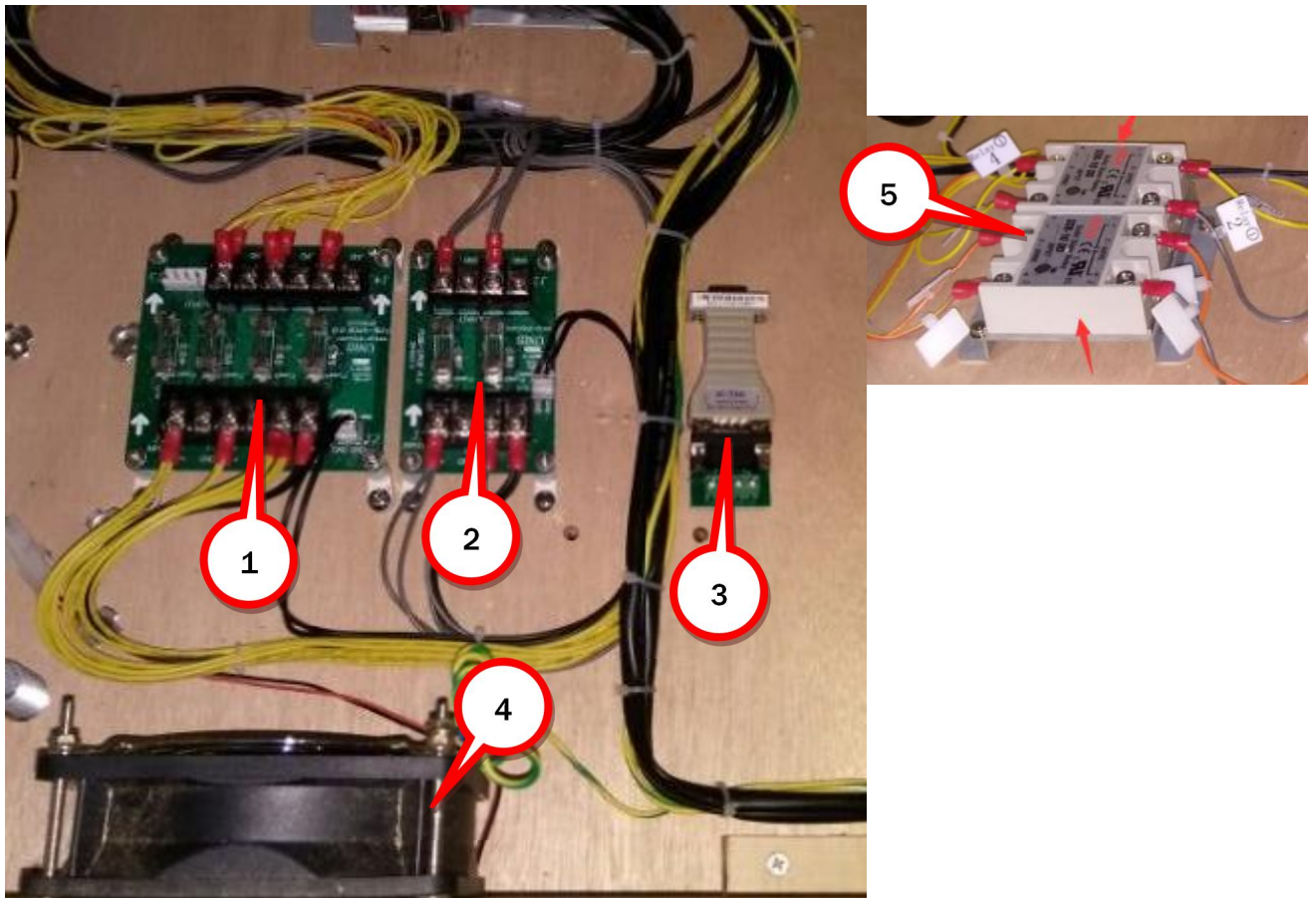
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No.	Part No.	Code No.	Name	Qty
1	C146-720-000	20511702006	Large marquee decal	1

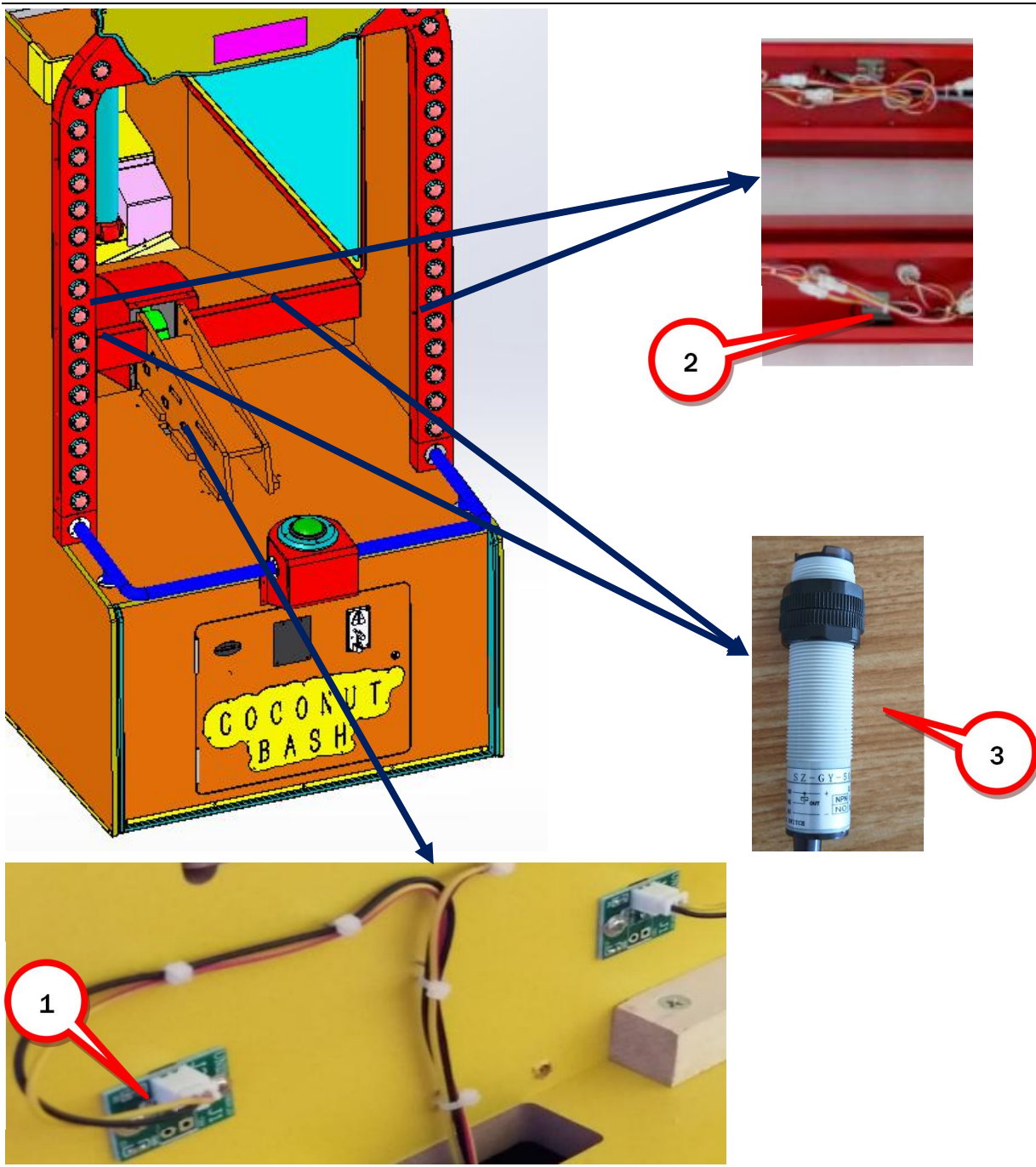
Electrical Part



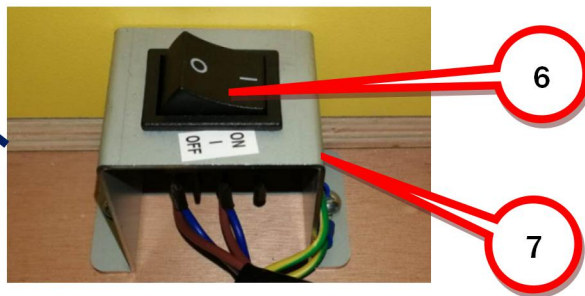
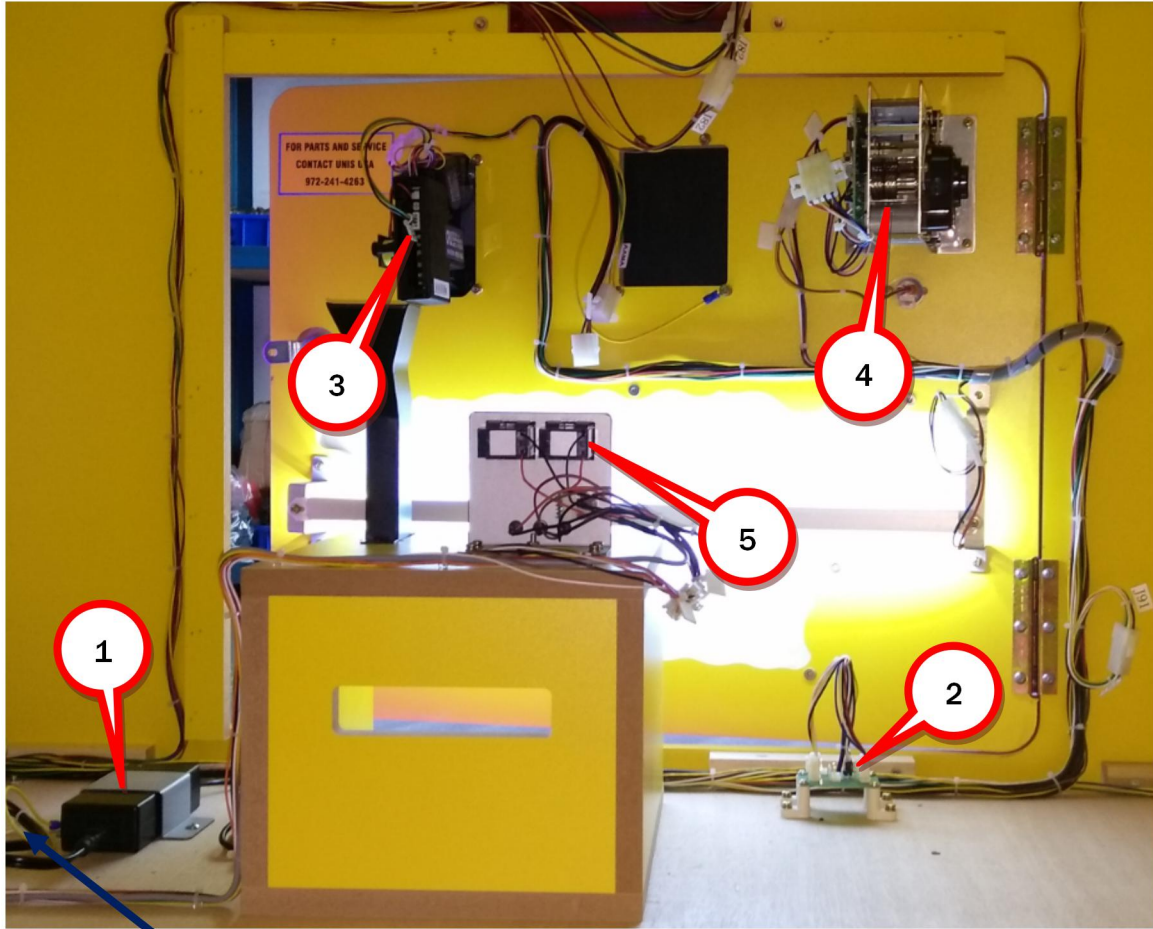
No.	Part No.	Code No.	Name	Qty
1	C146-431-000	29711702003	Music board	1
2	C146-401-001	29711702007A	M3 main board	1
3	C146-486-000	22900000004	Step motor drive	1
4	C146-402-001	29711702008A	M3 expand board	1
5	C146-403-003	21602000117	Power supply	1
	C146-404-004	21602000105	Power supply	1
6	C146-436-001	29711208002A	Drive board	1



No.	Part No.	Code No.	Name	Qty
1	C146-434-000	29711702006	fuse board	1
2	C146-433-000	29711702005	fuse board	1
3	C146-457-000	21412020009	Converted port	1
4	C146-424-000	22702010025	Fan	1
5	C146-427-001	22140000029	Relay	2



No.	Part No.	Code No.	Name	Qty
1	C146-430-000	29711702002	sensor board	2
2	C146-442-000	21503000052	Sensor SW(send)	1
	C146-443-000	21503000053	Sensor SW(receive)	1
3	C146-487-000	21501000047	Sensor	2

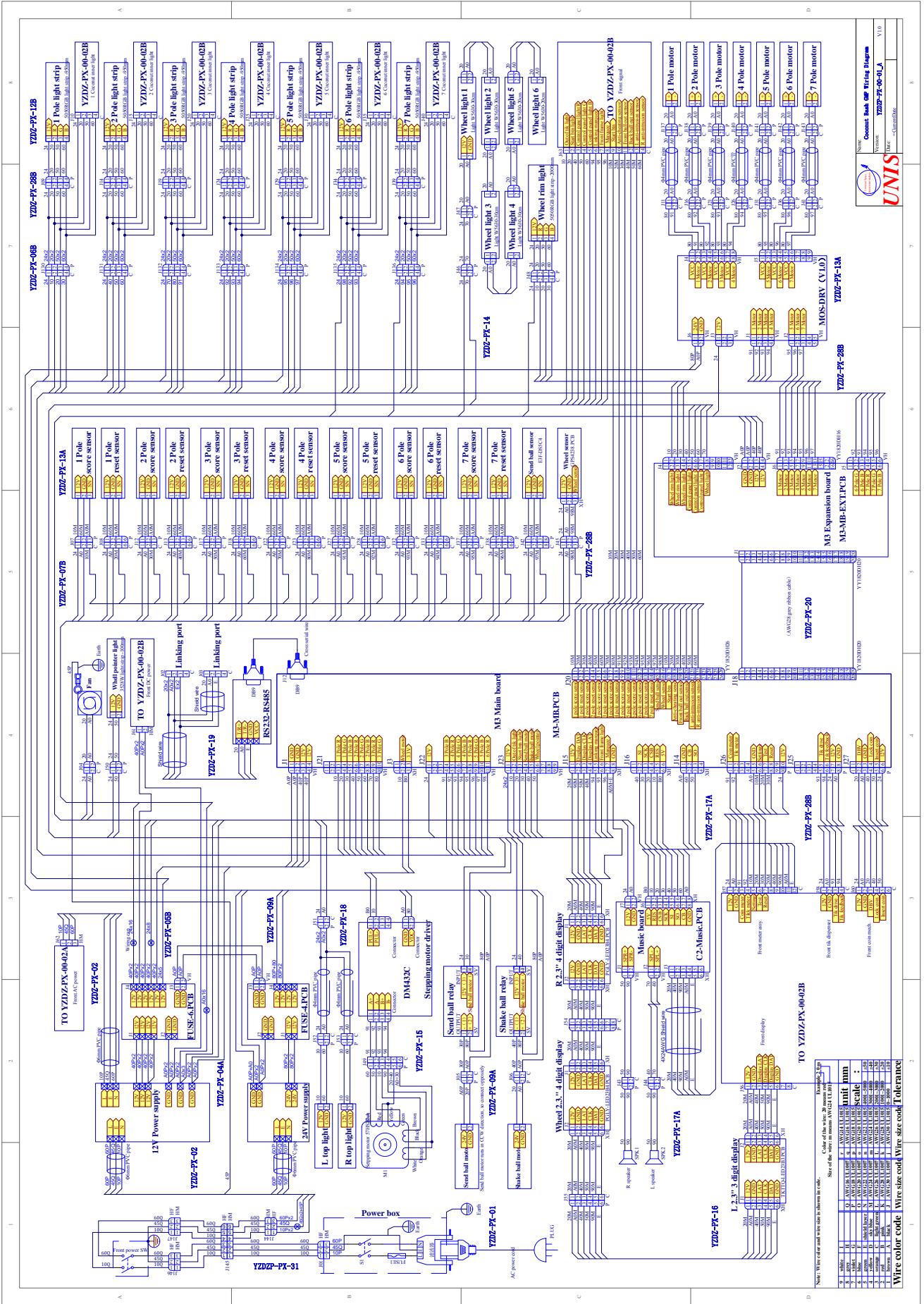


No.	Part No.	Code No.	Name	Qty
1	C146-460-001	21603000027	AC power adapter	1
2	C146-437-000	29790700002	Ticket converted board	1
3	C146-422-000	22301000002	Coin mech	1
4	C146-423-000	23100000005	Ticket dispenser	1
5	C146-414-000	23000000006	Meter	2
6	C146-488-000	22601000042	Rocker switch	1
7	C146-281-000	20211702154	Switch bracket	1

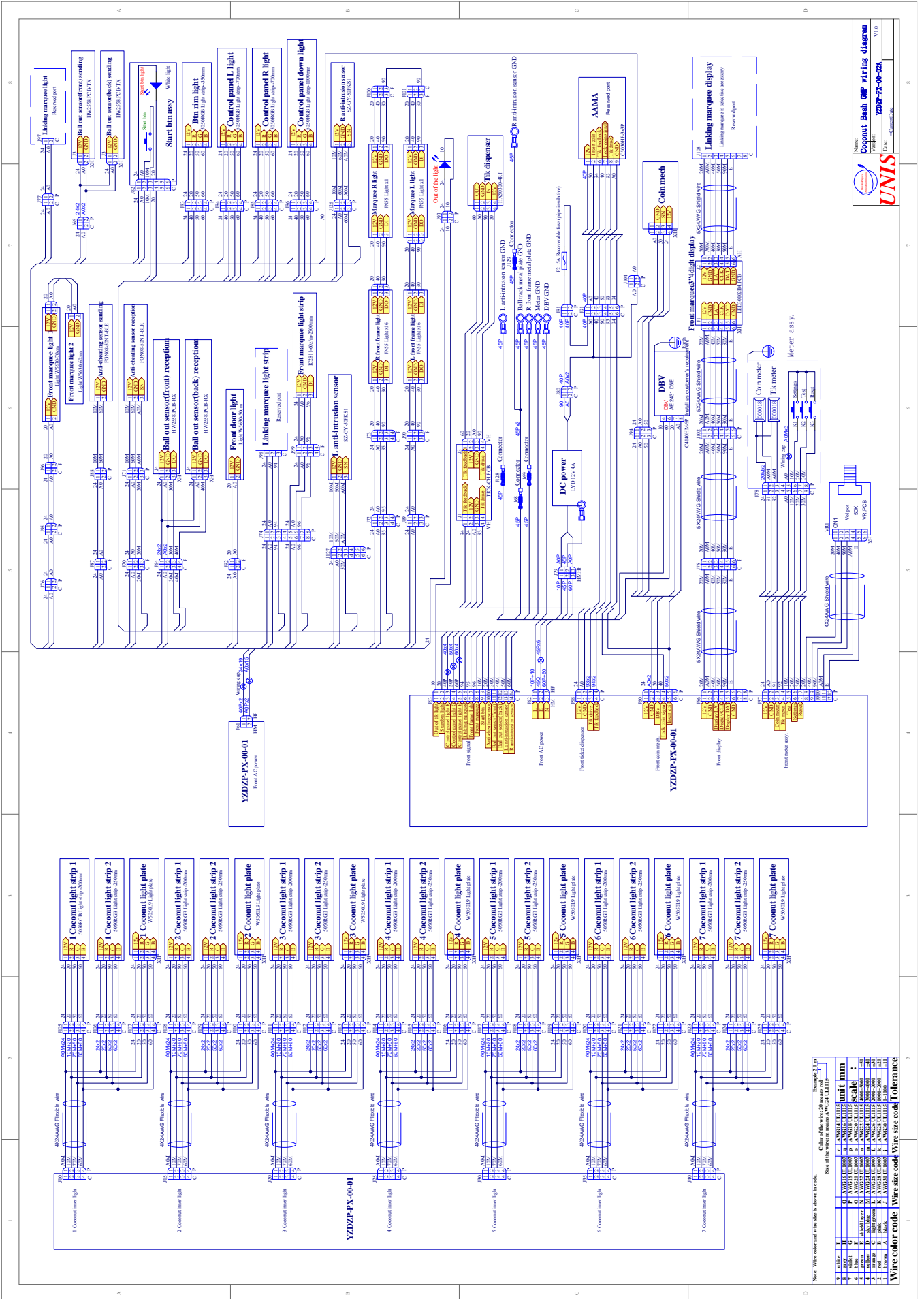


No.	Part No.	Code No.	Name	Qty
1	C146-450-001	22003080033	5630 light	1
	C146-451-001	22003080034	5630 light	1
	C146-444-002	22002016045	IC2811 light	2.5m
	C146-440-000	29741614004	4 bit display	1
2	C146-453-000	22003130002	JN55 light	34
3	C146-438-000	29741213010	PCB board	1
4	C146-448-001	22003080028	5630 light	4
	C146-447-001	22003080026	5630 light	2
	C146-445-001	22002016044	RGB light	2.5m
	C146-439-000	29741112002	Display	1
5	C146-439-000	29741112002	Display	1
6	C146-445-001	22002016044	RGB light	9.8m
	C146-429-000	29711702001	5050 light board	7
7	C146-429-000	29711702001	5050 light board	3.5m
8	C146-449-001	22003080031	5630 light	1
9	C146-429-000	29711702001	5050 light board	2.5m

10. WIRING DIAGRAM



Coconut Bash



Note: Wire color code size is shown in code.
 Color of the wire is shown in code.
 Size of the wire in mm is shown in the code.

Unit	mm	AWG	Color Code
1	0.5	30	Black
2	0.75	26	Red
3	1.0	22	Blue
4	1.5	16	Yellow
5	2.0	12	Green
6	2.5	10	Purple
7	3.0	8	Brown
8	3.5	6	Pink
9	4.0	5	Grey
10	4.5	4	Orange
11	5.0	3	Light Blue
12	5.5	2	Light Green
13	6.0	1	Light Yellow
14	6.5	0	Light Purple
15	7.0	-1	Light Brown
16	7.5	-2	Light Grey
17	8.0	-3	Light Orange
18	8.5	-4	Light Pink
19	9.0	-5	Light Green
20	9.5	-6	Light Blue
21	10.0	-7	Light Yellow
22	10.5	-8	Light Purple
23	11.0	-9	Light Brown
24	11.5	-10	Light Grey
25	12.0	-11	Light Orange
26	12.5	-12	Light Pink
27	13.0	-13	Light Green
28	13.5	-14	Light Blue
29	14.0	-15	Light Yellow
30	14.5	-16	Light Purple
31	15.0	-17	Light Brown
32	15.5	-18	Light Grey
33	16.0	-19	Light Orange
34	16.5	-20	Light Pink
35	17.0	-21	Light Green
36	17.5	-22	Light Blue
37	18.0	-23	Light Yellow
38	18.5	-24	Light Purple
39	19.0	-25	Light Brown
40	19.5	-26	Light Grey
41	20.0	-27	Light Orange
42	20.5	-28	Light Pink
43	21.0	-29	Light Green
44	21.5	-30	Light Blue
45	22.0	-31	Light Yellow
46	22.5	-32	Light Purple
47	23.0	-33	Light Brown
48	23.5	-34	Light Grey
49	24.0	-35	Light Orange
50	24.5	-36	Light Pink
51	25.0	-37	Light Green
52	25.5	-38	Light Blue
53	26.0	-39	Light Yellow
54	26.5	-40	Light Purple
55	27.0	-41	Light Brown
56	27.5	-42	Light Grey
57	28.0	-43	Light Orange
58	28.5	-44	Light Pink
59	29.0	-45	Light Green
60	29.5	-46	Light Blue
61	30.0	-47	Light Yellow
62	30.5	-48	Light Purple
63	31.0	-49	Light Brown
64	31.5	-50	Light Grey
65	32.0	-51	Light Orange
66	32.5	-52	Light Pink
67	33.0	-53	Light Green
68	33.5	-54	Light Blue
69	34.0	-55	Light Yellow
70	34.5	-56	Light Purple
71	35.0	-57	Light Brown
72	35.5	-58	Light Grey
73	36.0	-59	Light Orange
74	36.5	-60	Light Pink
75	37.0	-61	Light Green
76	37.5	-62	Light Blue
77	38.0	-63	Light Yellow
78	38.5	-64	Light Purple
79	39.0	-65	Light Brown
80	39.5	-66	Light Grey
81	40.0	-67	Light Orange
82	40.5	-68	Light Pink
83	41.0	-69	Light Green
84	41.5	-70	Light Blue
85	42.0	-71	Light Yellow
86	42.5	-72	Light Purple
87	43.0	-73	Light Brown
88	43.5	-74	Light Grey
89	44.0	-75	Light Orange
90	44.5	-76	Light Pink
91	45.0	-77	Light Green
92	45.5	-78	Light Blue
93	46.0	-79	Light Yellow
94	46.5	-80	Light Purple
95	47.0	-81	Light Brown
96	47.5	-82	Light Grey
97	48.0	-83	Light Orange
98	48.5	-84	Light Pink
99	49.0	-85	Light Green
100	49.5	-86	Light Blue

Wire color code | Wire size code | Wire size code | Tolerance

UNIS
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 V1.0
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