

Fantasy BanBan

OWNER'S MANUAL

Ver.2.02



! WARNING

- For safety reasons, please read the manual first before plugging in machine.
- Please keep this manual properly for convenient reference as needed.

About This Manual

Thank you for purchasing this product.

The manual describes how to install, set up, use and maintain the product. The main purpose of the manual is to instruct how to operate the product correctly and safely. Please follow all the safety and warning instructions in the manual to avoid personal injury and product damage.

This product may only be maintained by a technician. A technician mainly refers to a person who has obtained a certificate of senior middle school related to mechanical engineering, electrical engineering or at a level equal to that of technical senior middle school graduates, and is engaged routinely in the maintenance, management, repair of amusement machine.

When transferring the ownership of this product, be sure to provide this manual with the machine.

For further information about the game and repair (including consumables), please contact our company.

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1. Safety Precautions

1.1 Warning Stickers

In order to avoid injury to related people and damage to property, please observe the followings:

PLEASE READ FIRST

- The following marks can be used to indicate the magnitudes of risk and damage caused by ignorance or improper operation:



means “may result in serious injury or death”



means “may result in minor injury or property damage”

Serious Injury: refers to the situations in which hospital treatment or long-term treatment will be accepted because of losing sight, getting hurt, getting burnt, electric shock, fracture or intoxication.

Minor Injury: refers to the cases that there is no need to go to hospital or accept long-term treatment.

Property Damage: refers to the damage of house, facility, or hurt of livestock and pet

1.2 Placing Site

Warning

- please make sure the place line has been grounded before product installation, setup, testing, operation or repair
- This machine is designed for indoor use only. Never install the machine outdoors. Meanwhile, please avoid the following locations indoor:
 - Direct sunlight, water leakage, damp and high temperature places.
 - Near Flammable, volatile, or/and dangerous substance.
 - Slope, unstable places or locations subject to frequent vibration.
 - Near emergency exit, fire extinguisher or similar equipment.
- The rear part has the vent for heat emission from PC or screen. Don't place anything nearby to avoid game failure.
- Provide a space of minimum 30cm between the rear of the machine and the wall for good ventilation and heat emission

1.3 Safety Precautions

The owner shall pay attention to the followings when placing, checking and repairing machine to insure player's security and avoid damage:

Warning

- please check the voltage is 110V or 220V before the machine connects to the power supply, or it may cause a fire or electric shock.
- Make sure to plug the game into 110V or 220V main outlet to avoid fire and electric shock.
- Make sure to turn off the power when performing maintenance and service to avoid electric shock or short circuit.
- Do not unplug or plug the plug instantly.
- Don't touch the power plug with a wet hand to avoid electric shock.
- Don't expose the power cord/grounding line on the passageway. Failure to do this will damage the power cord, causing electric shock or short circuit.
- Don't lay anything near the power cord to avoid fire.
- Do not pull the power cord when unplugging, please hold the plug to avoid power cord damage, causing fire or electric shock.
- In case of power cord damage, please contact the local distributor for replacement
- Only use fuse and spare parts specified by our company
- Connect the connector firmly and tighten the screws.
- Do not dismount, replace or convert the product without our permission in order to avoid damage and human injury due to improper operation.
- Check and maintain the machine regularly.
- Keep "Warning stickers" clean and legible. Replace it immediately when the words are not legible or the dirt can't be removed.
- Please contact our service center when performing any work that is not described in this manual, and follow the instruction provided.

1.4 Precautions during Play

Caution

- In order to avoid injury and accident during play, the following people shall not play the game:
 - People who are injured or less mobile.
 - Person with poor health condition, such as hypertension or heart disease.
 - Person wearing high-heeled or slippery shoes.
 - Person who can't touch the pedal.
 - Pregnant woman, drunk people.
- When a player feels uncomfortable during play, remind the person to have a break, or stop playing.
- Make sure the player reads the warning labels and other indications, and plays in accordance with the instructions to avoid accidents such as electric shock and short circuit.
- Bystander shall not operate any button when the player is playing the game to avoid unnecessary trouble.

1.5 Transporting and Moving

Caution

Transporting

- When transporting the machine with an elevator, be sure to employ "Lift Point" to prevent accident and damage to the machine.
- To prevent movement when transporting the machine on a vehicle, please fix the casters and fully retract the adjusters. Failure to do this may cause damage to the machine.
- When carrying the machine with a forklift, be sure to insert the fork to fork position and lift stably. If not, it may cause accident and damage to the machine.
- The Acrylic of the machine is fragile. High precision components are required for vibration or shock resistance.

Moving

- Before moving the machine, unplug the power plug to prevent accident. Don't damage the cord.
- Pay attention to the obstructions and uneven surface when moving the machine to prevent accident and damage to the machine.
- Fully retract all adjusters before moving to prevent accident and hazard.
- Make sure to use at least two persons to conduct the above work to avoid accident and injury
- Pay attention to the moving direction, see fig.



1.6 Installing and Placing

Pay attention to the following when placing the machine.

Caution

- Place the machine on the flat and slip resistant area.
- Use the adjusters to fix the machine (See diagram 1)
 1. Loosen the nuts for the adjusters (clockwise), tighten the bolts with a wrench (clockwise).
 2. Tighten the nut firmly (counter clockwise) and fix it well.

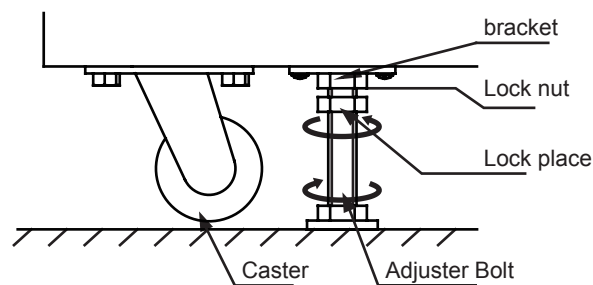


Diagram (1)

- Provide a space of minimum 30cm between the rear of the machine and the wall for good ventilation and heat emission (See diagram 2).

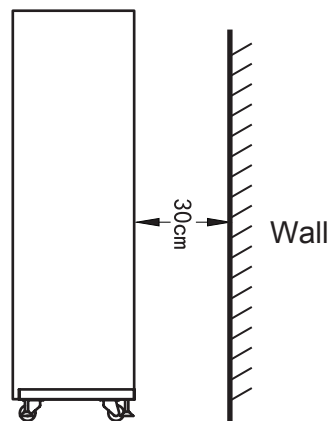
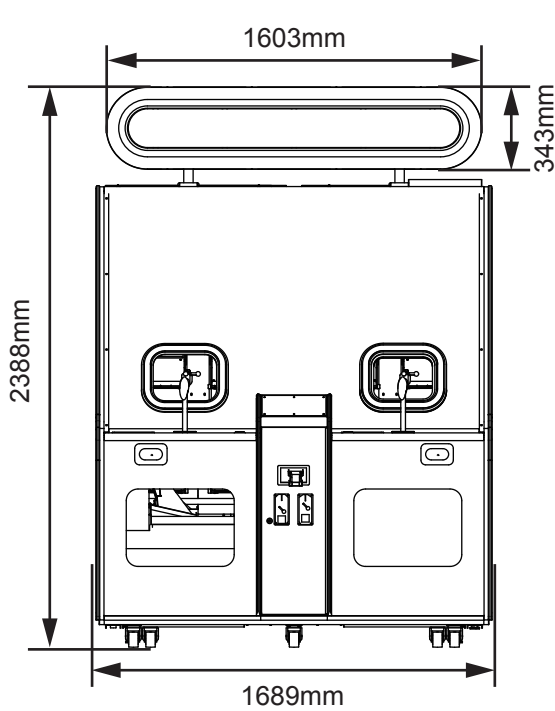


Diagram (2)

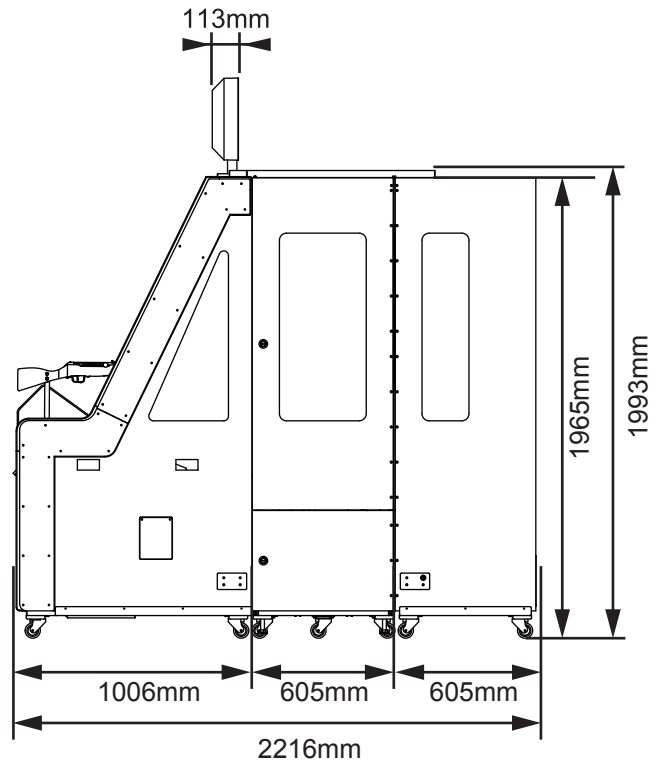
2. Product Description

2.1 Product Specification

■ Location	Indoor Only
■ Dimension	1689(W)×2216(D)×2388(H)
■ Rated Voltage	220V
■ Frequency	50Hz
■ Power Consumption	440 W
■ Weight	695 kg
■ Temperature Range	5~40 °C
■ size of prize	280(W)×280(D)×280(H)
■ Weight of prize	less than 1.0kg
■ Number of players	Max 2 persons
■ Capacity of bullet dispenser	Approx. 2000



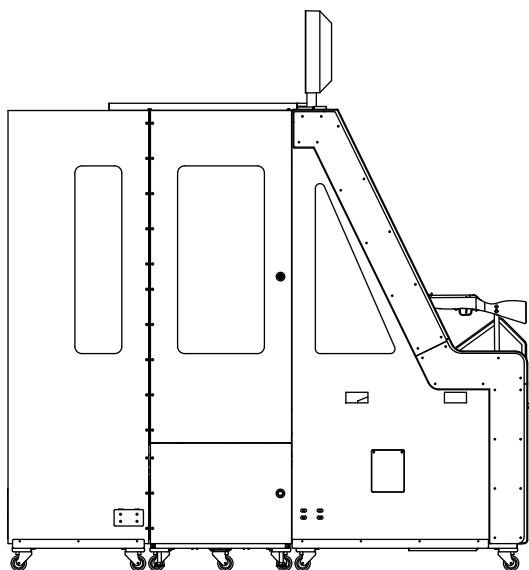
■ Front View



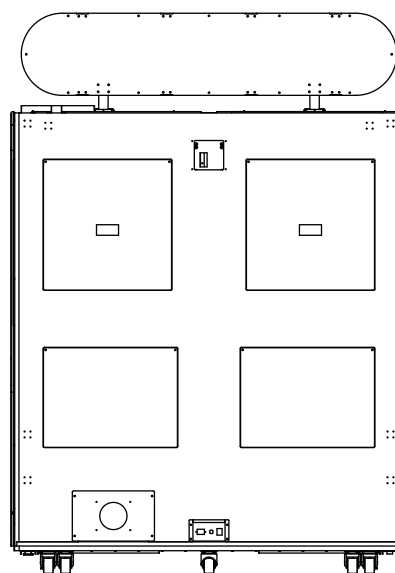
■ Side View

2.2 Overview

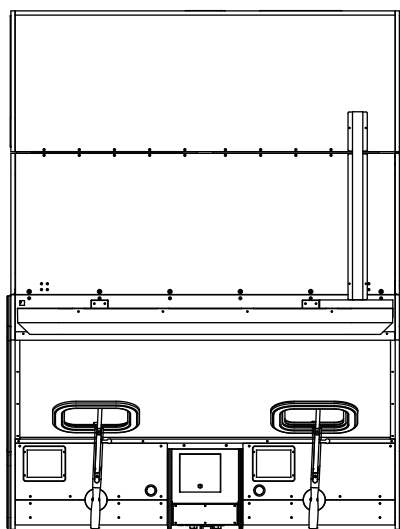
■ Side View



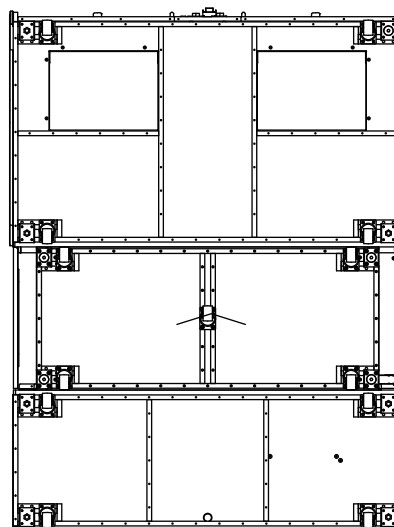
■ Rear View



■ Top View

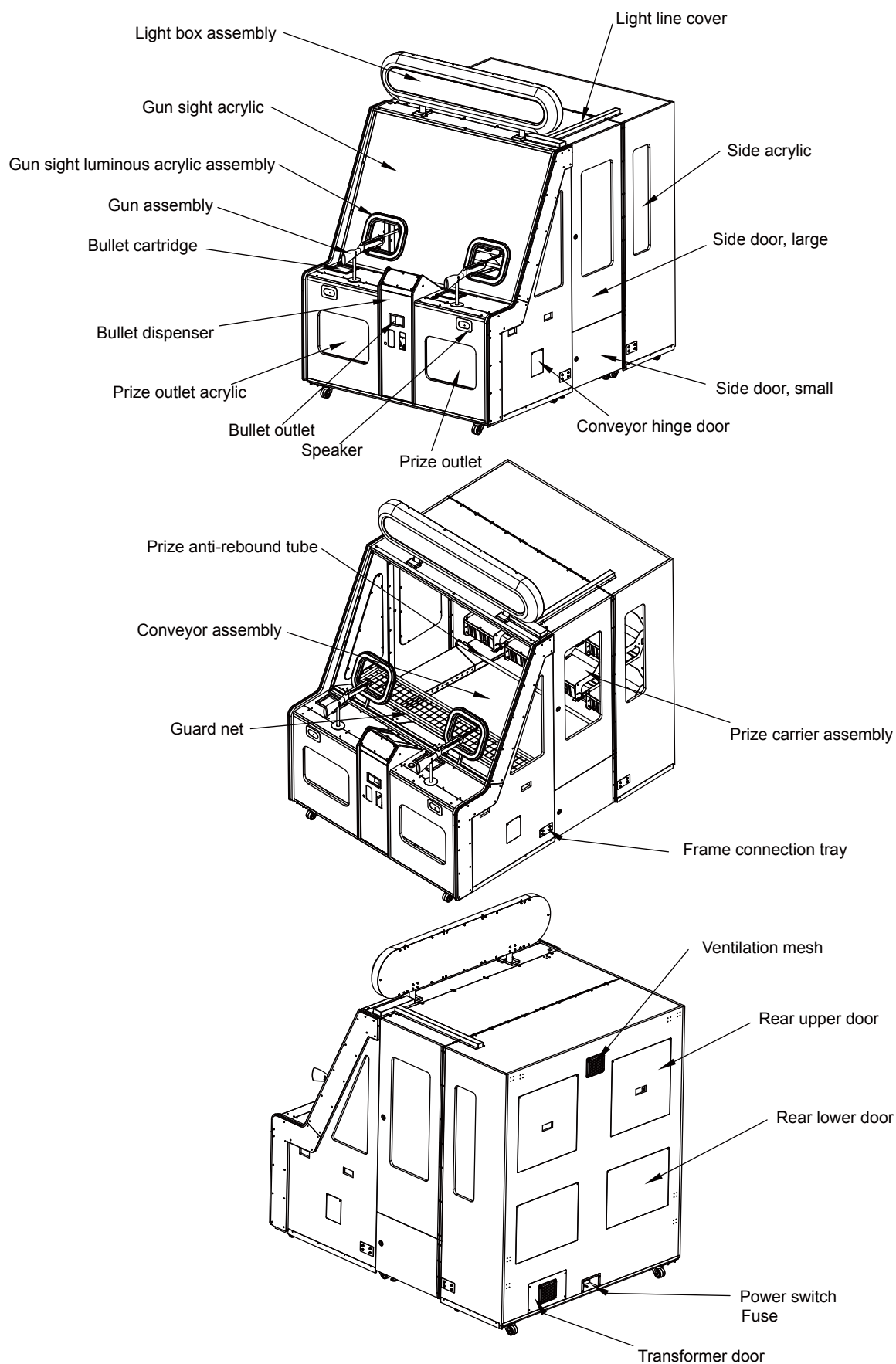


■ Bottom View



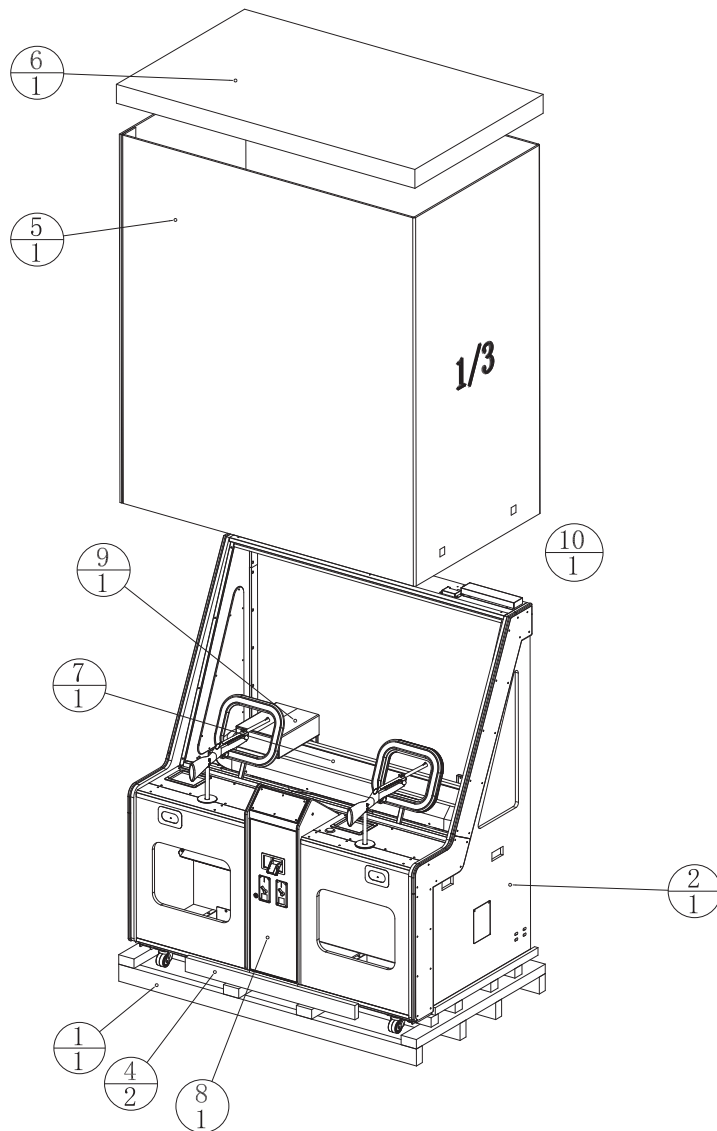
Size of conveyor : W1615mmxD1548mm(P17)

2.3 Parts Name



2.4 Shipment List

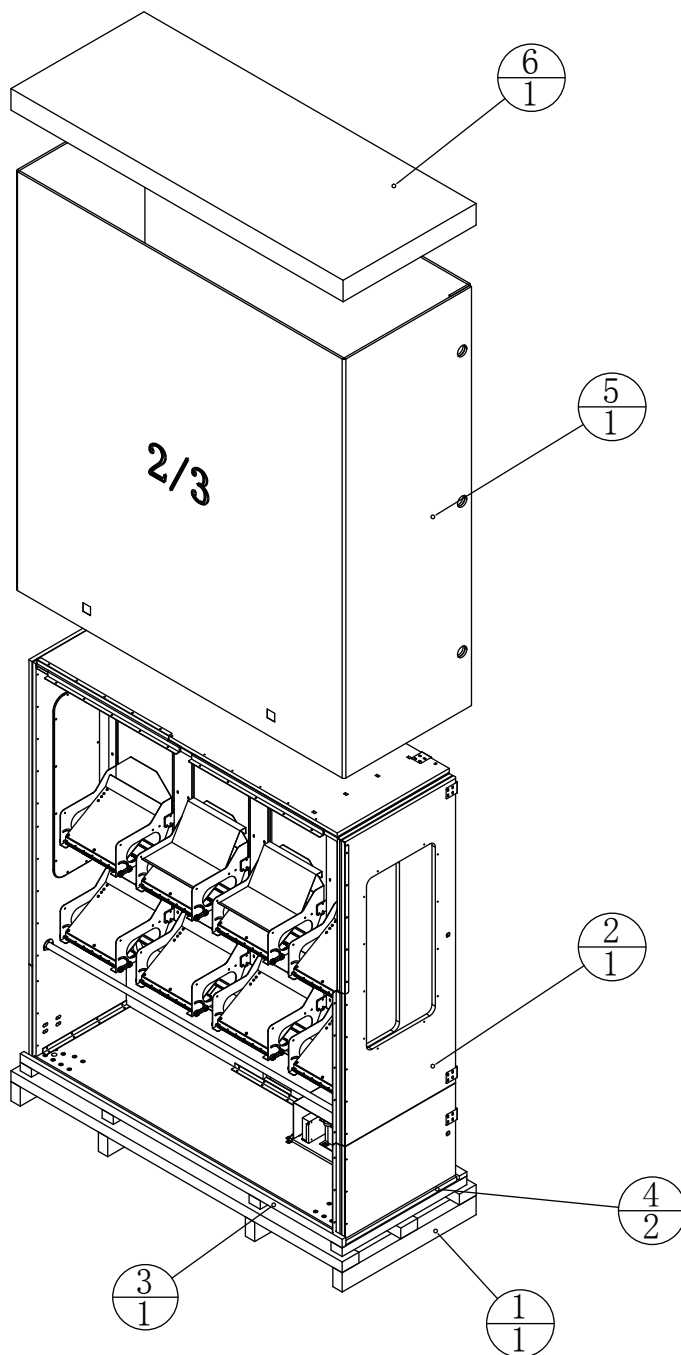
■ Packing Carton 1



产品名称 Fantasy BanBan 幻想砰砰
箱体重量 310kg
箱体尺寸 1755x1085x2100mm (W) (D) (H)
箱体备注 前框装箱 (附属品箱、灯箱)
C/NO. 1/3

No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-9901E01	Front frame platform rack	Solid wood	1	
2	FBB-0100000	Front frame assembly		1	
3	FBB-9901E02	Front frame platform rack stopper 1	Solid wood 20X40X865	1	
4	FBB-9901E03	Front frame platform rack stopper 1	Solid wood 30X75X1000	2	
5	FBB-9901E04	Front frame fence	Water-proof 3C1100g T-10	1	
6	FBB-9901E05	Front frame top cover	Water-proof 3C1100g T-10	1	
7	FBB-0402000	Light box assembly		1	
8	FBB-0500000	Bullet dispenser assembly		1	
9	Accessories box	Accessories box		1	

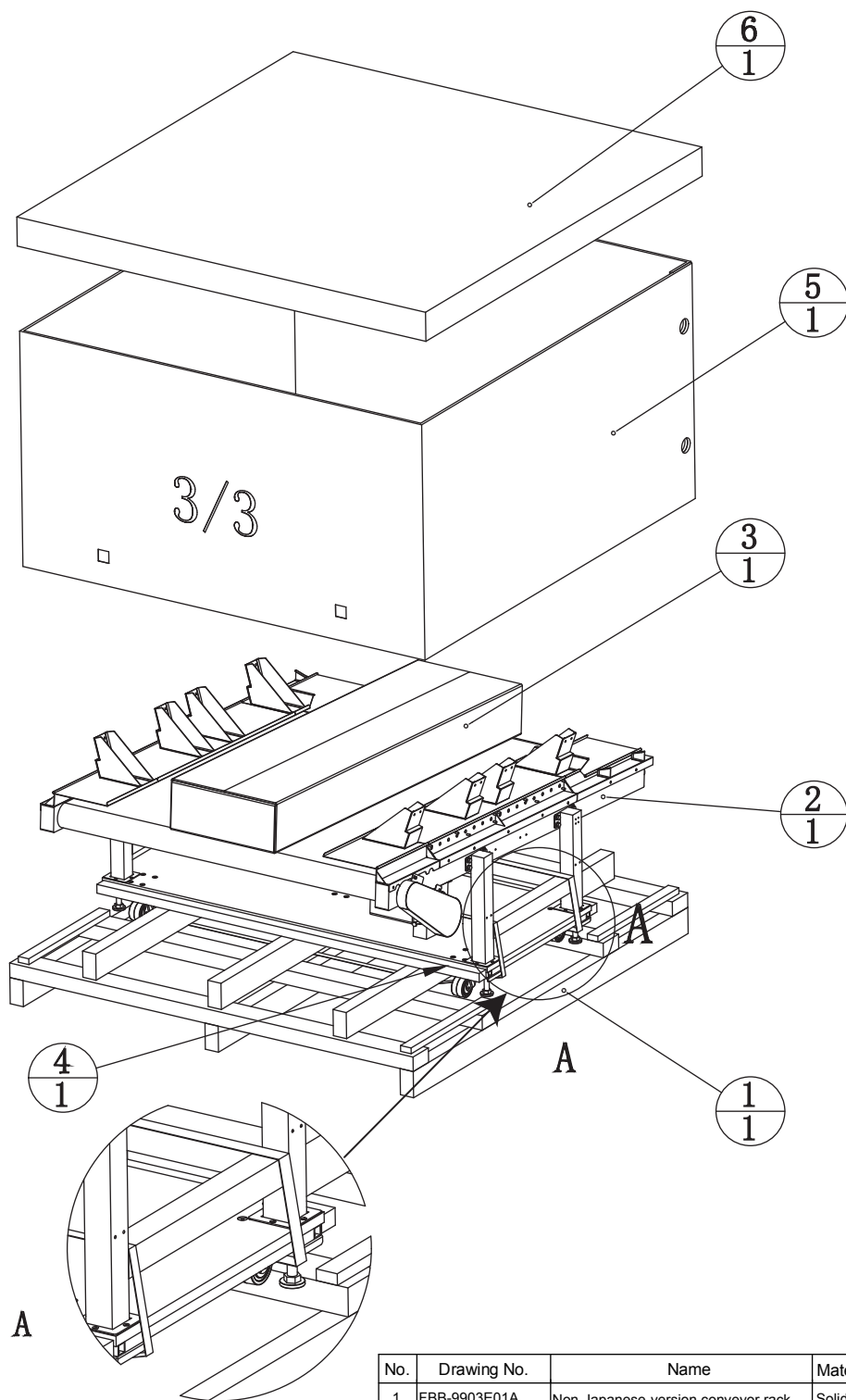
■ Packing Carton 2



产品名称 Fantasy BanBan 幻想砰砰	
箱体重量 345 kg	
箱体尺寸 1785x720x2100mm (W) (D) (H)	
箱体备注 后框装箱	
C/NO.	2/3

No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-9902E01	Rear frame platform rack	Solid wood	1	
2	FBB-0200000	Rear frame assembly		1	
3	FBB-9902E02	Rear frame platform rack stopper1	Solid wood 20X40X1730	1	
4	FBB-9902E03	Rear frame platform rack stopper2	Solid wood 20X30X600	2	
5	FBB-9902E04	Rear frame fence	Water-proof 3C1100g T-10	1	
6	FBB-9902E05	Rear frame top cover	Water-proof 3C1100g T-10	1	

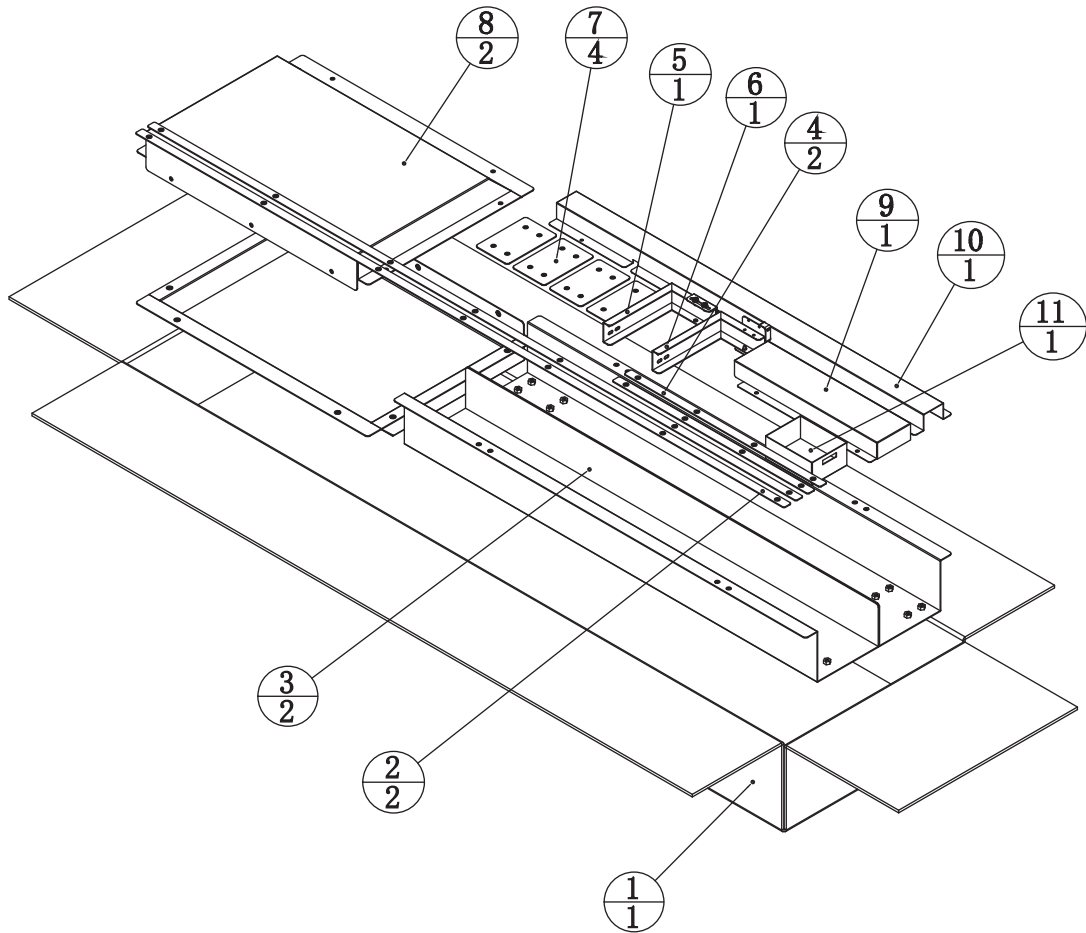
■ Packing Carton 3



产品名称 Product Name	Fantasy BanBan 幻想碎碎
箱体重量 Box Weight	185kg
箱体尺寸 Box Size	1550x1620x960mm (W) (D) (H)
箱体备注 Box Note	输送机装箱
C/NO.	3/3

No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-9903E01A	Non-Japanese-version conveyor rack	Solid wood	1	
2	FBB-0300000	Conveyor assembly		1	
3	FBB-9903100A	Non-Japanese-version accessory-box		1	
4	FBB-9903E01-04A	No.4 conveyor rack	Solid wood 30x40x1450	1	
5	FBB-9903E02A	Non-Japanese-version conveyor frame	Water-proof 3C1400g T-10	1	
6	FBB-9903E03A	Non-Japanese-version conveyor canopy	Water-proof 3C1400g T-10	1	




Fittings box



No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-9903E04A	Non-Japanese-version accessory-box	Cardboard-5.0T	1	
2	FBB-0200A39	Big side-door pressing strip	SPCC-1.5T	2	
3	FBB-0000A02	Machine adapter rack	SPCC-1.5T	2	
4	FBB-0200A40	Small side-door pressing strip	SPCC-1.5T	2	
5	FBB-0001000	Right door switch assembly		1	
6	FBB-0002000	Left door switch assembly		1	
7	FBB-0000A01	Frame connecting iron	SPCC-1.5T	4	
8	FBB-0101A03	Bottom prize bucket	SPCC-1.5T	2	
9	FBB-0101A07	Electrical box 1	SPCC-1.0T	1	
10	FBB-0200A13	Electrical box 2	SPCC-1.0T	1	
11	FBB-0500A19	Anti-dropping cartridge-box	SPCC-1.2T	1	

2.5 Packing List

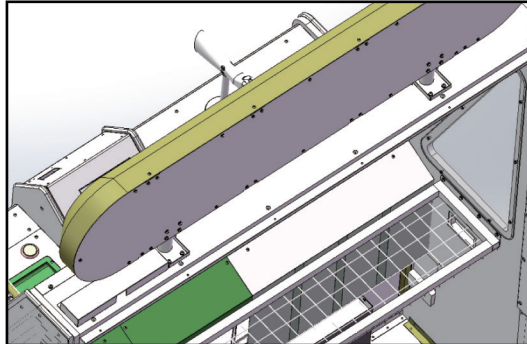
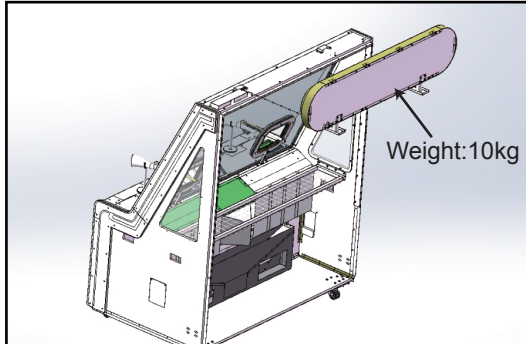
Please check the following items after purchasing our product. If any part missing or damaged, please contact our sales person!

Description	Specification	Quantity	Remarks
Power cord (two-end three-pin)	3m(1.0mm ²) (Tapered)	1	
Instructions		1	
Fastener		1 set	
Top white strip LED line		1	
Left/right infrared boards connecting wire	2.7m	1	
Target 1	White ABS	32	
Target 2	White ABS	32	
Target 3	White ABS	32	
Bullet		2000	in the bullet box
Bullet recycling bin		1	
Assembling screws		1 set	
Straight flat lock, short		7	
Driver board		1	
Driver board line	0.8m	1	
Window action description sticker		1	Under the sight 
Digital sticker		1	For bullet dispenser 
Price sticker		1	At top of coin collector 

2.6 Instructions for installation (by 4 or more persons)

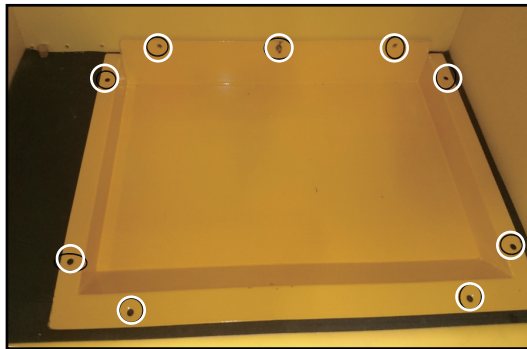
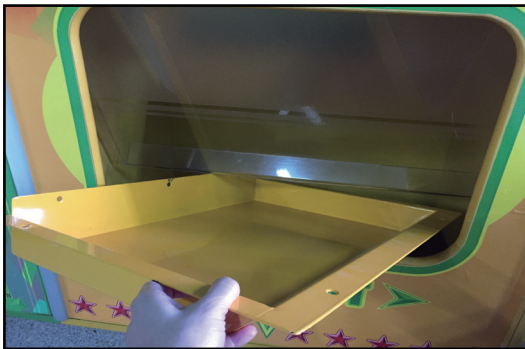
■ Installation of light box

Mount the light box onto the light box fasteners at top of front frame, and fix with 4 M5x16 trio screws.



■ Installation of prize bin

Place the prize bin at the outlet hole, and fix it with 9 screws.

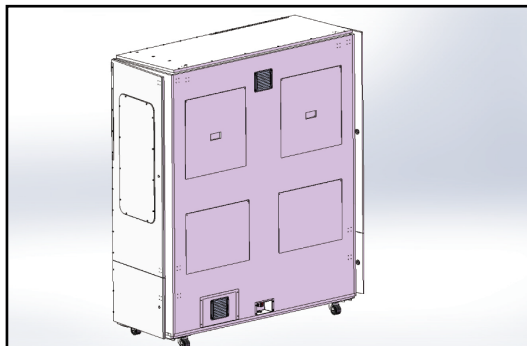
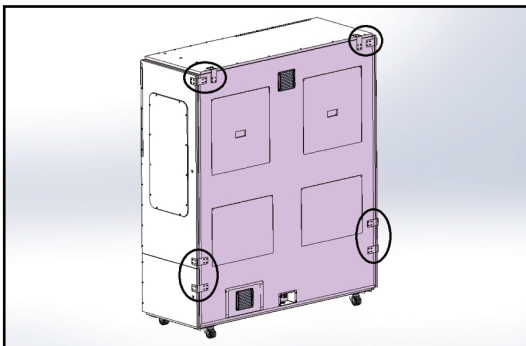


■ Number of stickers and stickers of bullet quantity

Paste stickers at the appropriate location as required, please refer to P36 «4.4 Instructions of stickers» .

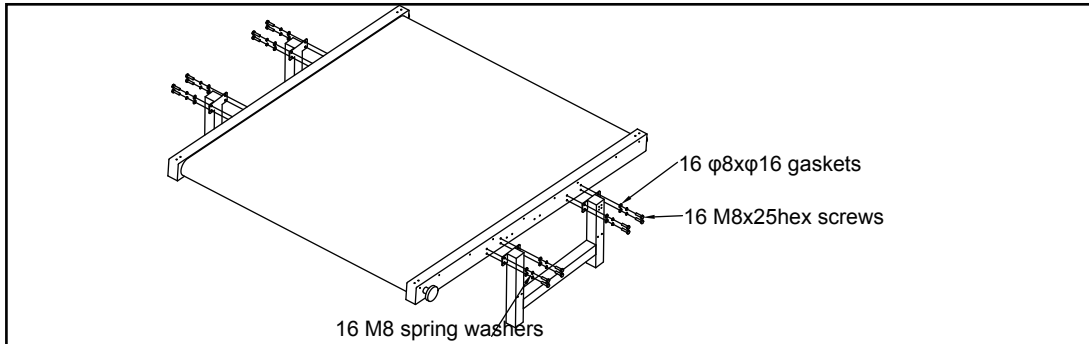
■ Remove shipping fasteners

Remove the screws of shipping fasteners. Remove the fasteners.

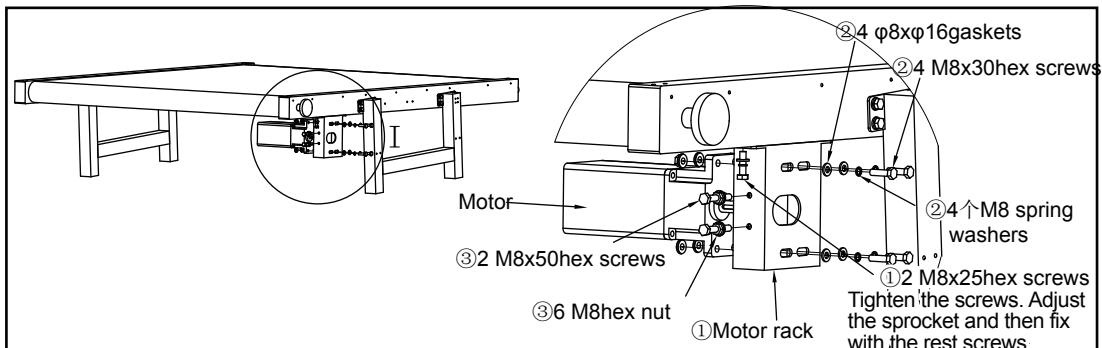


■ Installation of conveyor (If the base and gears have been installed in place, the remaining installation begins from Step 5.)

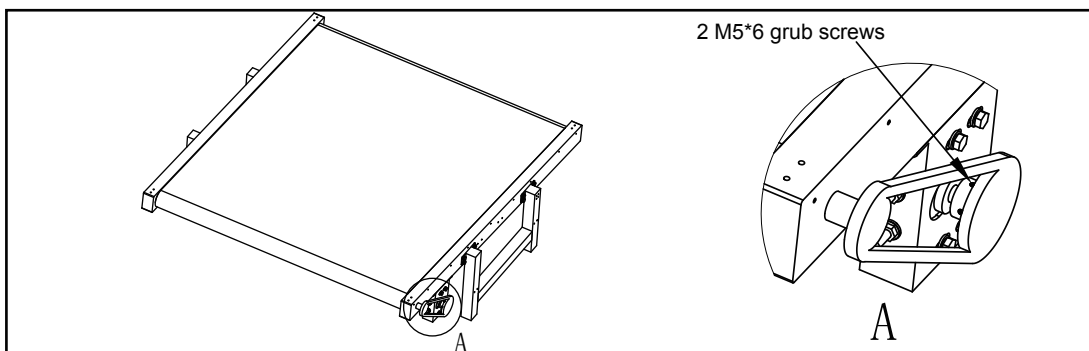
1. Mount the left/right conveyor frame with 16 gaskets, 16 spring washers and 16 M8x25 hex screws.



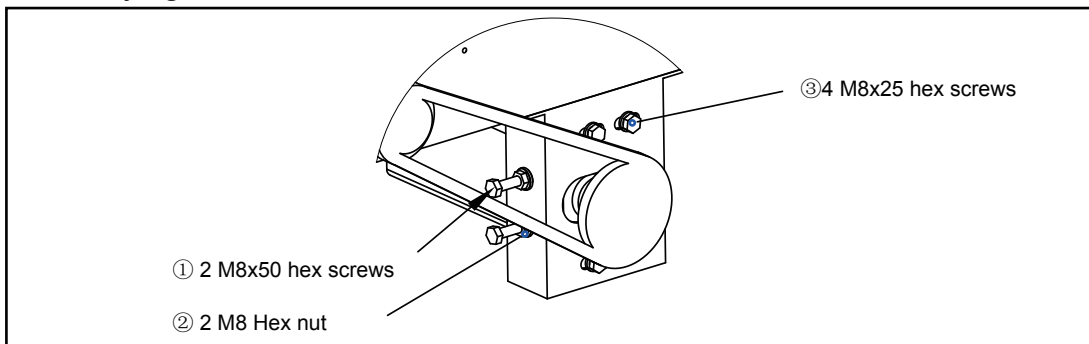
2. ①Fix the motor rack first.
②Put the rest screws aside. Adjust the sprocket and then fix.



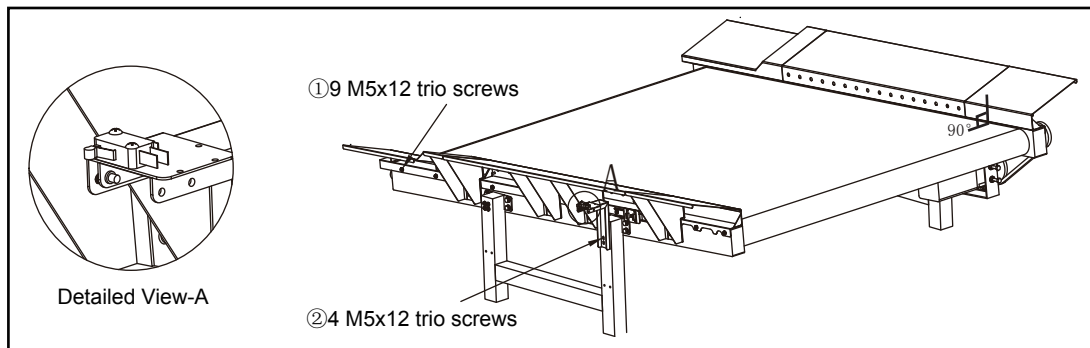
3. Fix the gear with 2 grub screws, and then mount the chain.



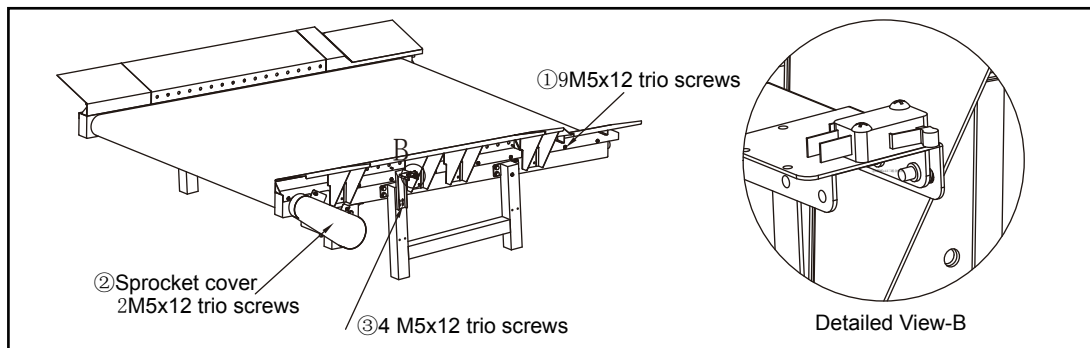
4. ①Tighten with 2 hex screws first, until the chain is straight.
②Tighten the 2 hex nuts.
③Finally tighten the 4 M8x25hex screws.



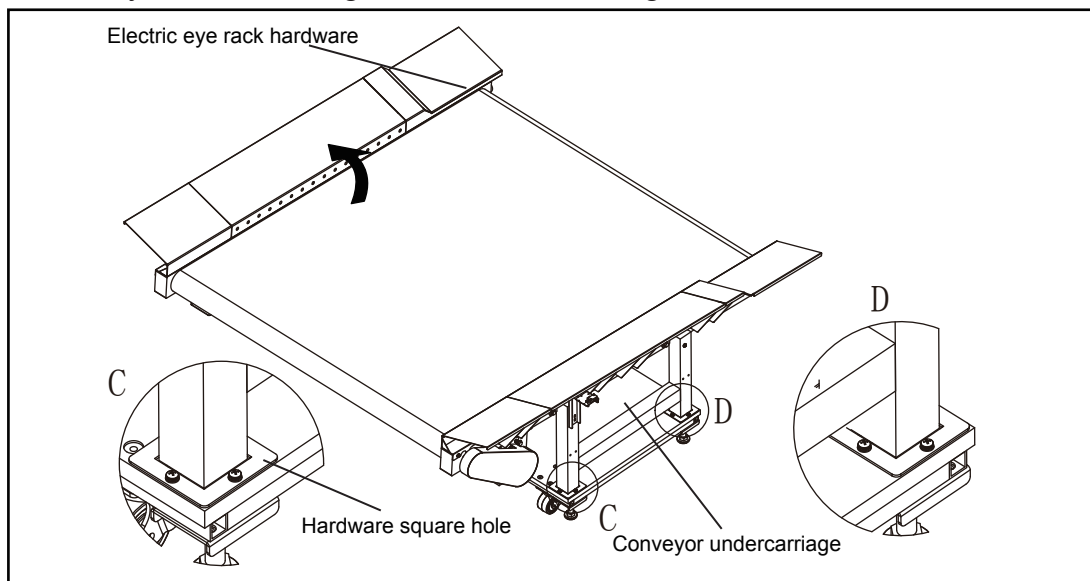
5. ① Fix the left 3 electric eye rack fasteners with 9 M5x8 trio screws. The fastener rack shall be perpendicular to the conveyor belt.
- ② Fix the left door switch assembly with 4 trio screws.



6. ① Fix the right 3 electric eye rack fasteners with 9 M5x8 trio screws. The fastener rack shall be perpendicular to the conveyor belt.
- ② Fix the sprocket cover with 2 trio screws.
- ③ Fix the left door switch assembly with 4 trio screws.

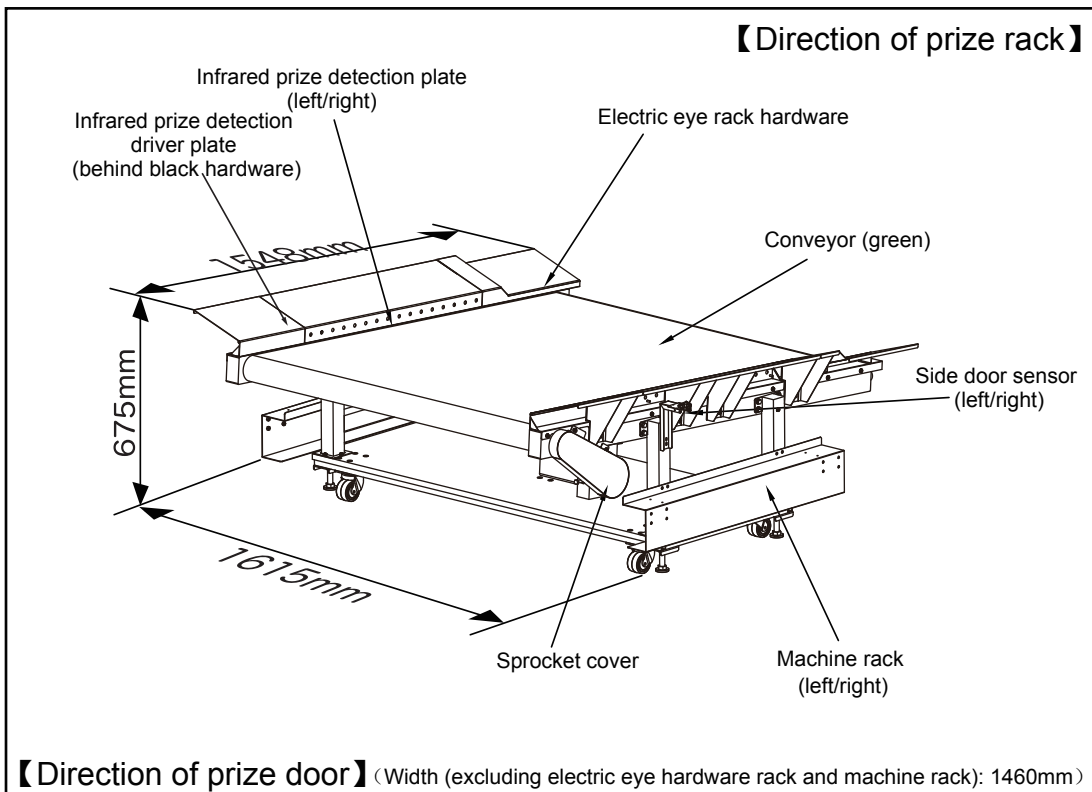
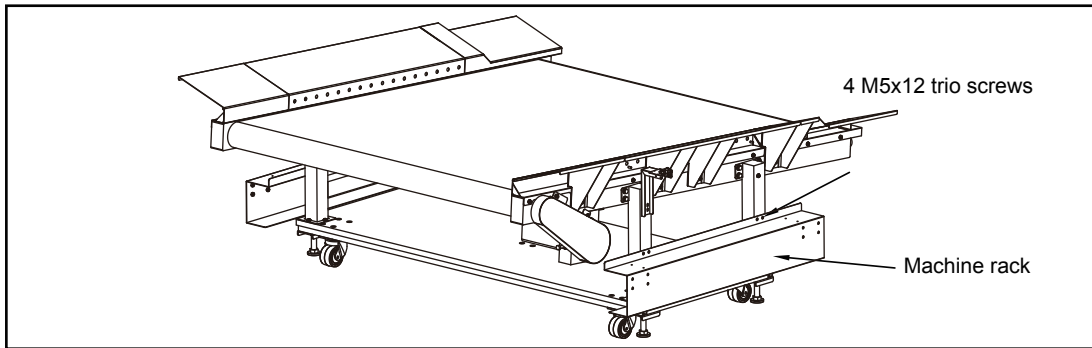




7. Lift the conveyor frame. Place the 4 feet into the 4 fastener square holes in the conveyor undercarriage, as shown in the figure.



Warning The base is not fixed with the conveyor belt assembly. Please move them carefully.

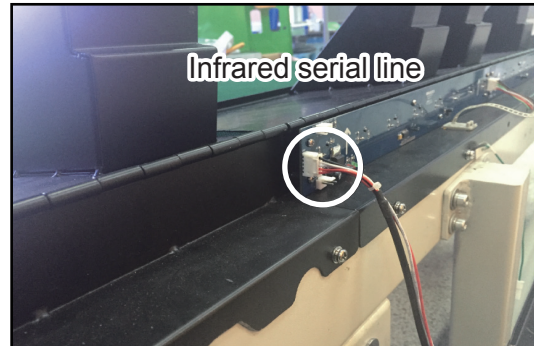
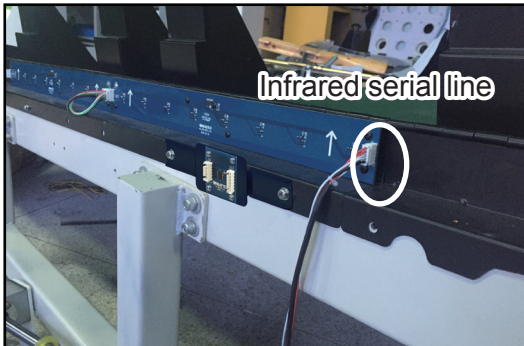
8. Fix the two (2) machine racks with 8 trio screws.



 <p>Caution</p>	<p>Do not step on the black hardware rack at both sides of the conveyor as adding prizes.</p> 
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Conveyor wiring diagram

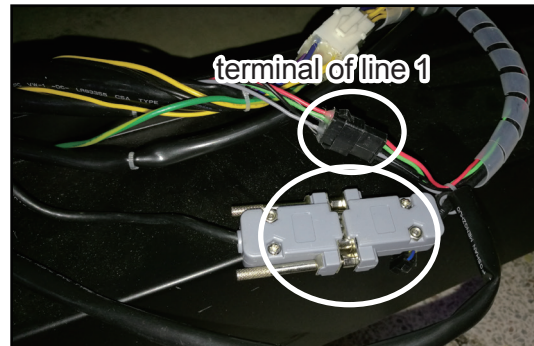
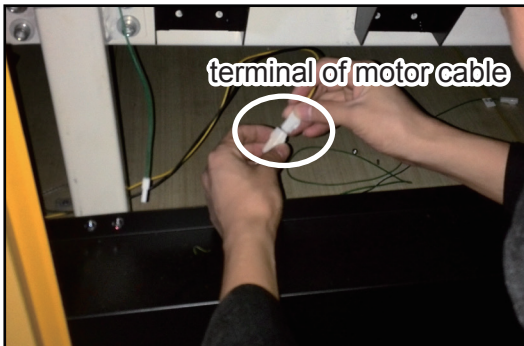
1. Connect infrared serial line (in the accessories box) terminals to connect the left/right infrared boards.



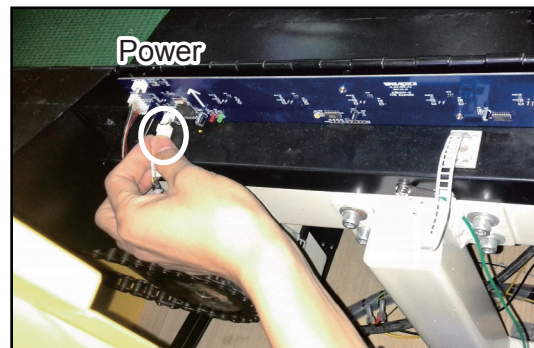
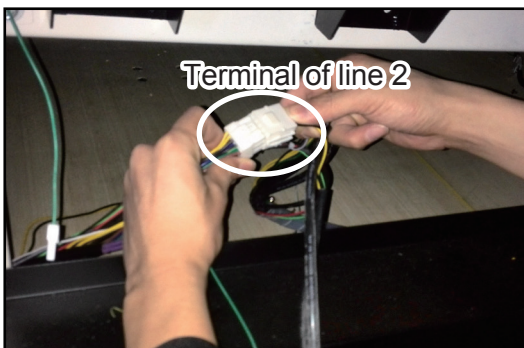
2. Pull out the fastener of electric eye rack at both sides of the conveyor. Align the conveyor assembly with the middle of rear box and push it in. Then push the front frame assembly into the conveyor. Be careful not to press the wires.



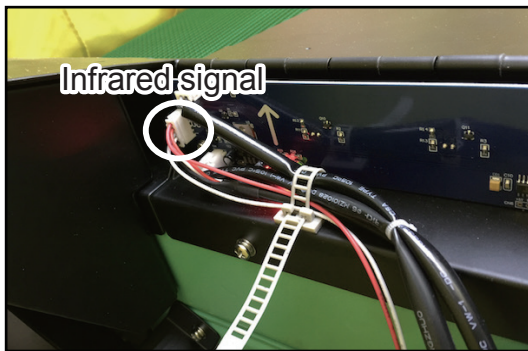
3. (Right) Pull out the wire. Connect the terminal of motor cable with the terminal of line 1.



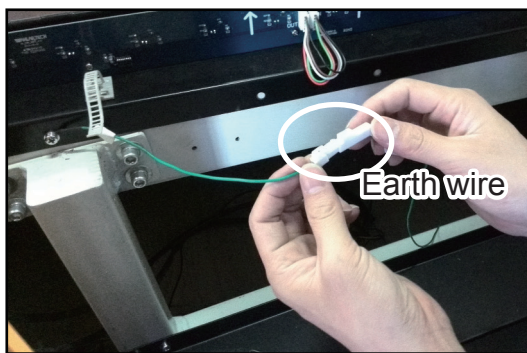
4. (Right) Connect the terminal of line 2 with infrared board power terminal.



5.(Left)Connect the infrared signal terminal, as shown in the figure.



6.(Right)Connect the earth wire and the right door jog terminal.

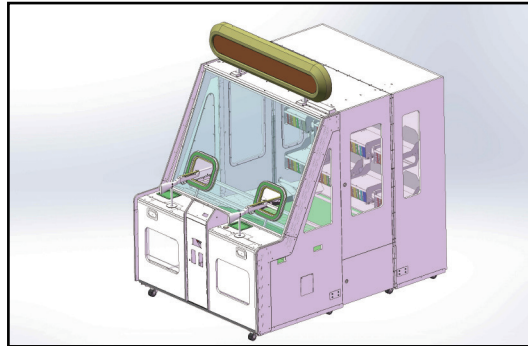
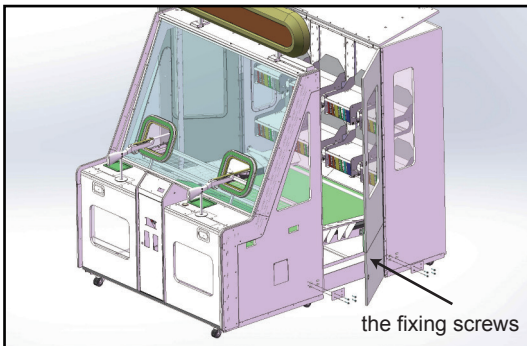


7.(Left)Connect the left door jog terminal. Pull out the fastener at both sides of the conveyor. Wiring of conveyor is complete.

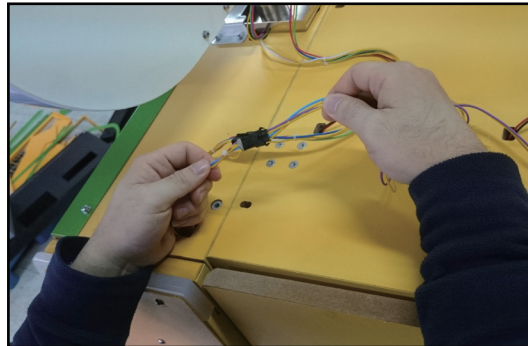
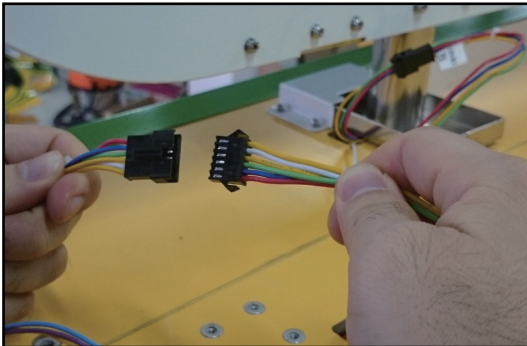


Connection and installation of machine

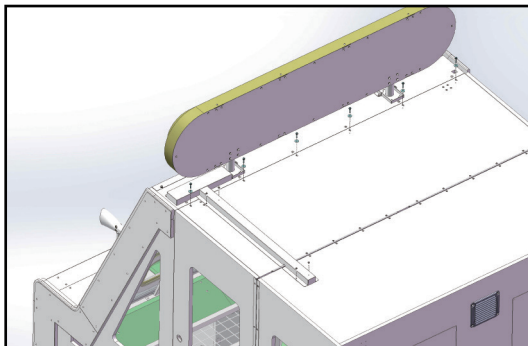
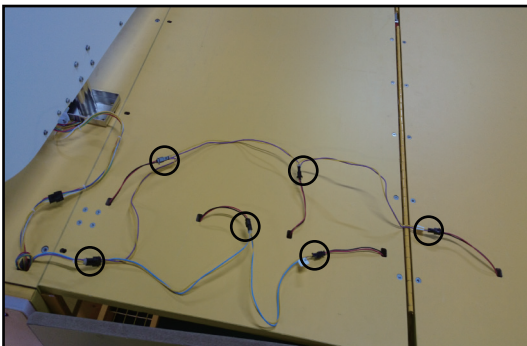
1. Mount the 16 M6x35 trio screws fixing the conveyor. Lower the top plate of rear frame and insert it into the groove of front frame. Close the 2 side doors and tighten the fixing screws.



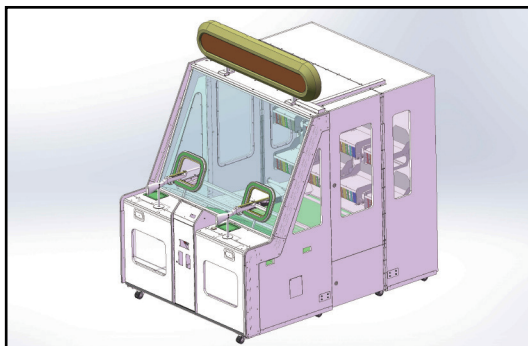
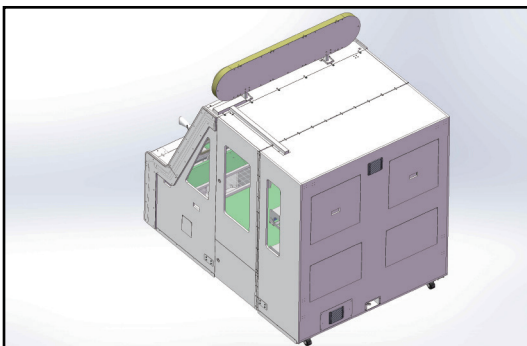
2. Connect the light box and the LED terminal.



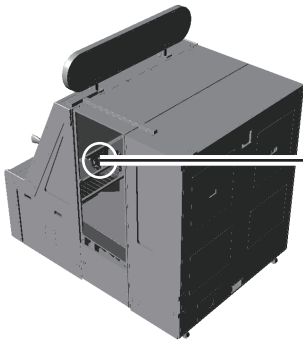
3. Connect the terminal of top strip LED line (in the accessories box), as shown in the following figure. Fix the top plate of rear frame with 6 washers and 6 trio screws, and then fix with 6 screws.



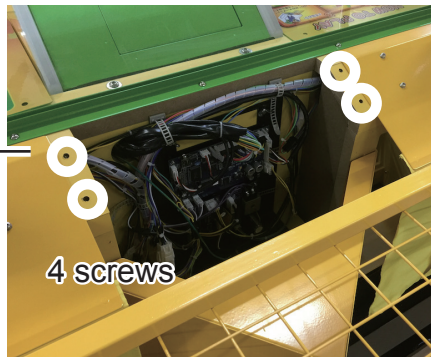
4. The complete installation is as shown in the figure.



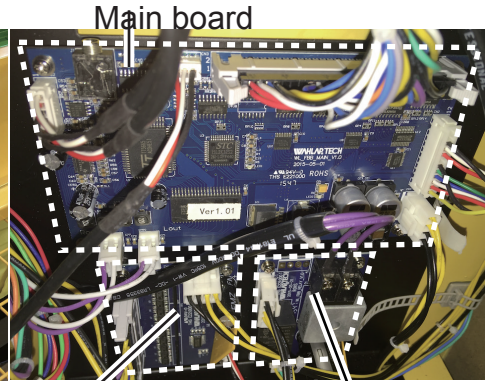
■ Main board and driver board positions



Behind the bullet vending machine



4 screws



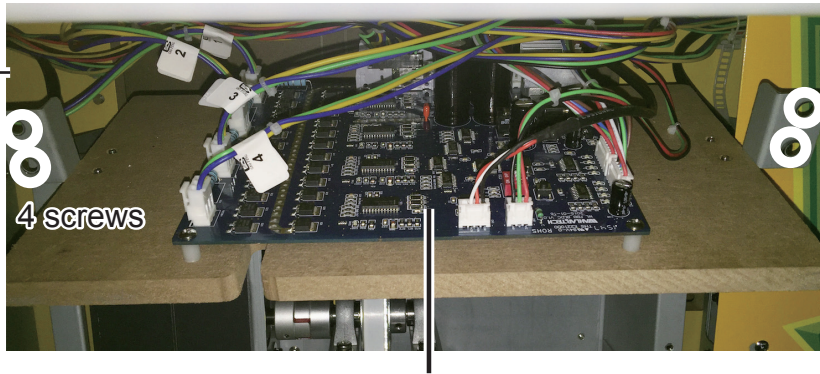
Main board

LED control panel

Bullet vending machine and conveyor motor driver board



Above the second set of hardware at top of prize rack

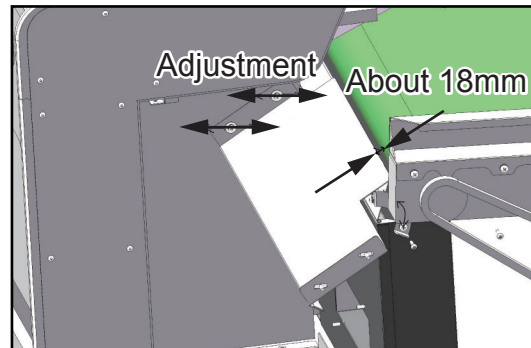
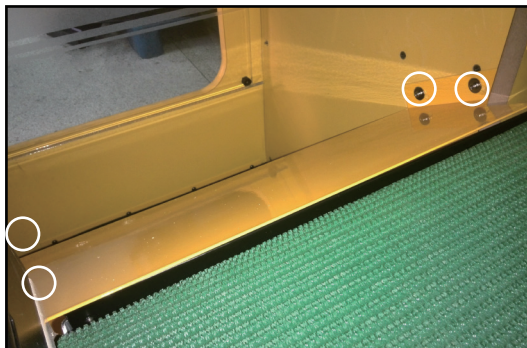


4 screws

Prize rack motor driver board

■ Adjust the bullet recycling distance

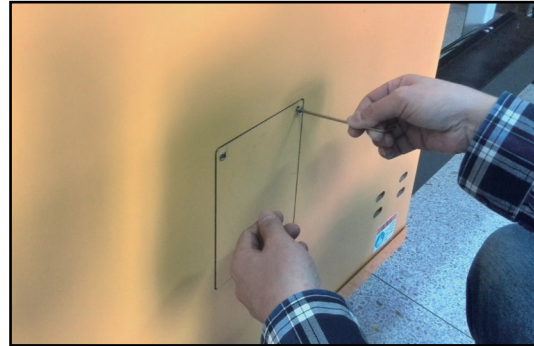
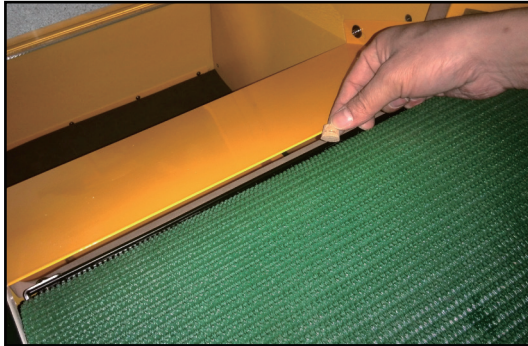
1. Open the side door. Loosen the 4 screws fixing the prize slide fasteners. Adjust the angle of the fastener depending on the size of the bullet, until a bullet can pass through the gap (about 18mm). Then tighten the screws.



Adjustment

About 18mm

2. After adjustment, test whether a bullet can fall through the gap and roll into the bullet recycling bin. Remove the door (small) fixing screws. Move the door.

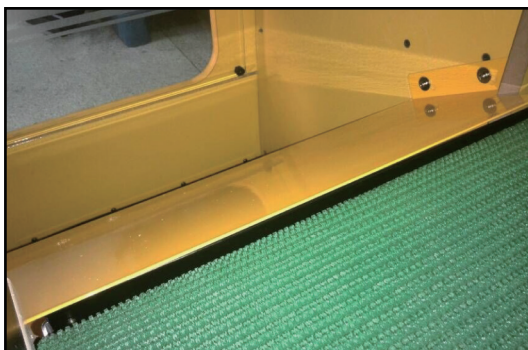


3. Loosen the screws fixing the adjustment fastener of bullet slide.

4. Mount the fastener on the most top against the gift slide. Tighten the screws.



5. After adjusting, mount the door in reverse order. The effect after adjustment is as shown below.



6. After the machine is installed, if there is no gift as prompting win after power on, refer to Section 4.9.

2.7 Warranty

■ Scope

- Inquiry regarding product can be assisted for free.
- The warranty scope for consumables and durables may differ from product to product. Please contact our after-sales service center for detailed information. The right of final interpretation is reserved.

■ Exclusive

- Damage caused by force majeure such as god will.
- Failure caused by carelessness, such as water contact, falling down, toppling, knocking.
- Failure caused by disobeying the instructions in this manual.
- Failure caused by operating the machine on inappropriate site.
- Change the original design and configuration for the game without notice.
- Failure to perform regular service and clean.
- Failure to fix the product in line with the manual's requirement.
- Malfunction or part damage caused by electromagnetic interference other electronic equipments generated.

■ Non-warranty Consumables

- Light tube and bulb
- Button lamp and switch
- Fragile items
- Solenoid
- Other spare parts

3. Game Description

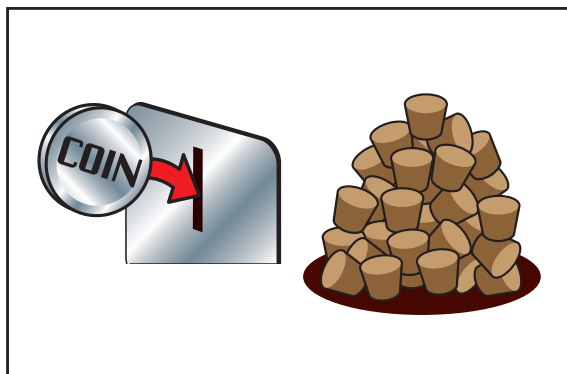
3.1 Appearance Design

The color of Fantasy BanBan Game Machine is given priority to yellow/green color. Its color is bright and its contour line is fluent and concise. Its large screen can give the player a lightsome visual-enjoyment. The design focuses on the gun. In order for the player to operate more easily, the gun is fixed on the operating console. The gun can aim at the gift-racks inside the game-machine through the window, which makes the game more simple and easy. There are 8 constantly-moving gift- racks inside the game-machine. The gifts are all placed on the gift-racks in order to make the gifts more high-profile. There are 6 different size/color targets under the gift-racks. Their hitting difficulties are different, which can attract the player to play. The LED & LED light-box outside the machine-frame will flash differently according to the game progress, which can create a cheerful atmosphere. The LED & LED light-box outside the machine-frame along with the gift-rack's moving inside the machine-frame can make the game-machine especially dazzling and colorful.

3.2 Game introduction

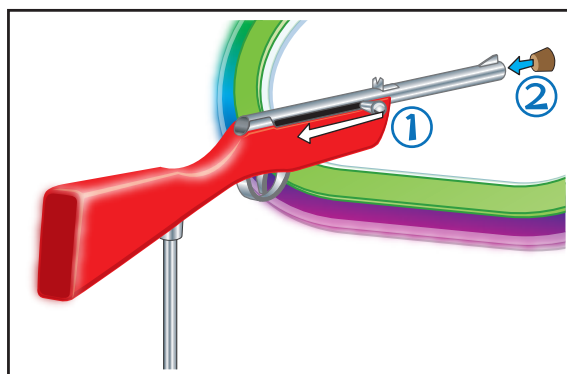
The Fantasy BanBan is a shooting game developed by Zhejiang Holley Technology Co. Ltd, featuring simple and lively style, simple game content. After shooting down all the 6 targets under the same prize carrier using bullets, you can get rich prizes. The Fantasy BanBan has no time limit, suitable for people of all ages. This game can be played by two persons, suitable for a family or a couple players to enjoy.

3.3 How to play

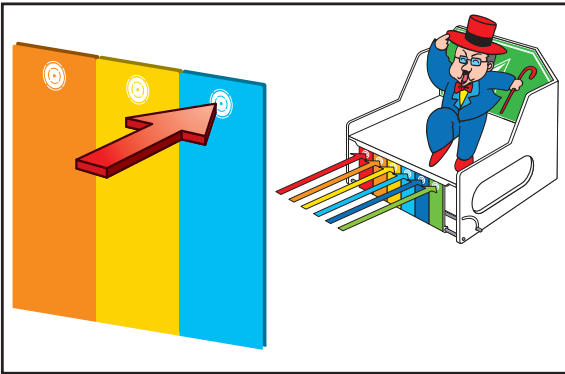


1. Insert tokens to get bullets.
The machine is equipped with two coin slots to set any amount of tokens to start the game.

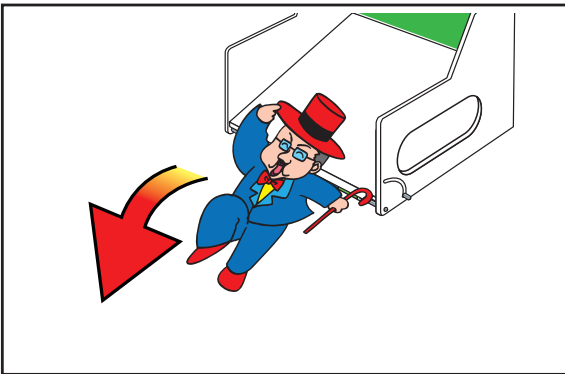
* In r-02/r-03 mode, after inserting tokens, the prize rack will move up/down.



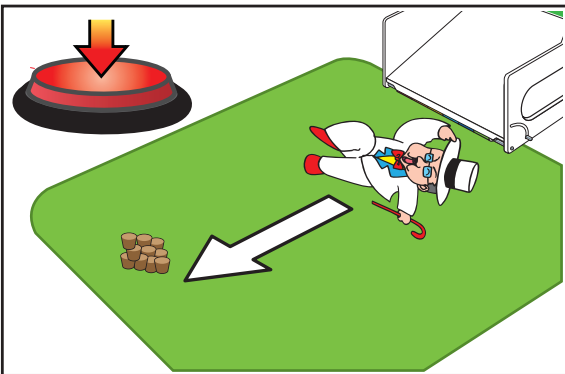
2. Pull the lever, and then fill the bullets in the gun.



3. Aim at the target prize rack, shoot at the six targets on the target prize rack.



4. After the six targets are shot down, the platform inclines, and the prizes fall.



5. Press the key "Player 1" or "Player 2" on the desktop, the conveyor runs to deliver the prize to behind the prize door.

- * After pressing the key, the conveyor will deliver the prize, while recovering bullets.
- * In r-02/r-03 mode, if the set time is out, even if the Player key is pressed, the conveyor will not run.



6. Open the prize door to get out the prizes.



7. For safety, after the door is open, the conveyor will stop.

* Close the door and press the Player key, the conveyor will run again.

3.4 Connect the power supply and the power switch

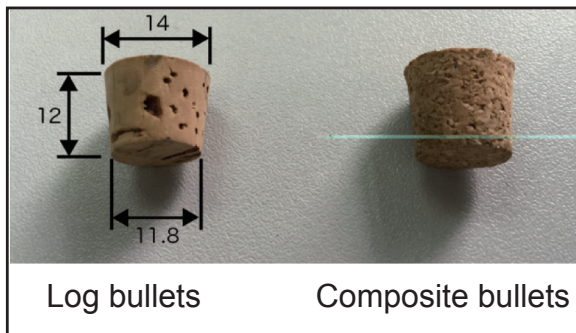
Check the electronic components. Insert the power plug refer to Section 1.3 Precautions (p2).

(Locations of the two power switches: Power box, Service panel). After starting, the machine will run automatically for about 20 seconds to initialize, and then run normally.

3.5 Daily operation

1. For cork bullets, the log bullets are recommended in the left following figure.

The same-size composite bullets can also be used, but there will be a difficulty to be triggered.

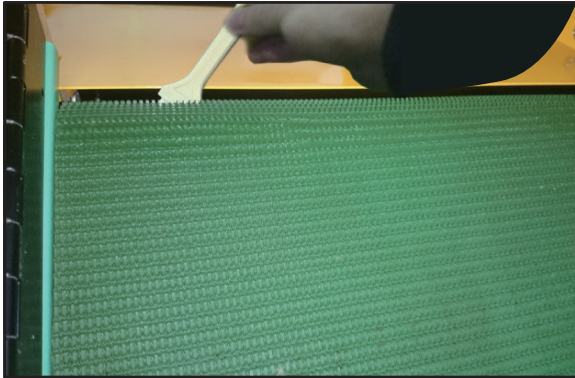


2. Wood bullets recycling

a. After turning on, press the "Player 1" key or the "Player 2" key, the conveyor belt starts.



b. After the conveyor belt stops, sweep the remaining bullets in the slide from both sides toward the middle.



c. Pull out the bullet recycling bin
If the bullet recycling bin cannot be pushed back, clean up the remaining bullets inside the cabinet and then push it back.

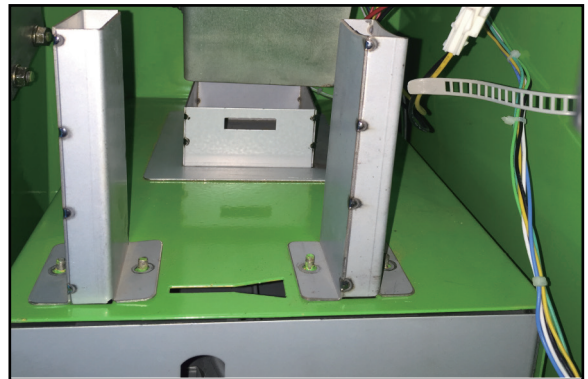
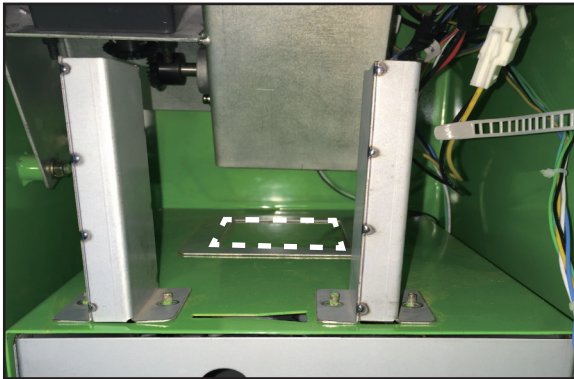


d. Fill bullets

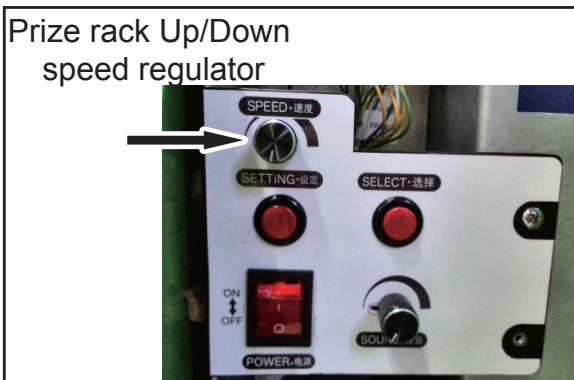
Open the door of bullet box with the key. Fill in about 2,000 bullets, but do not exceed the red warning line.



e. Place the bullet hopper



3. Prize rack Up/Down speed adjustment



4. Add prizes

See section 5.2.16 Add prizes

5. Target replacement

See section 5.2.1.1 Replacement of target

6. Prize outlet door

When the prize outlet door is open, the conveyor belt stops instantly. Error is given 30 seconds after the door is open, and automatically released after the door is closed.

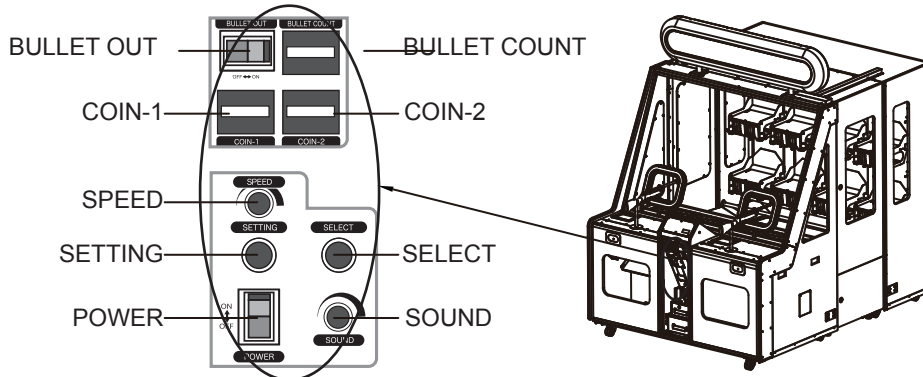


4. Test and Setting

4.1 Description of Service Panel and Power Switch

【Description of Service Panel】

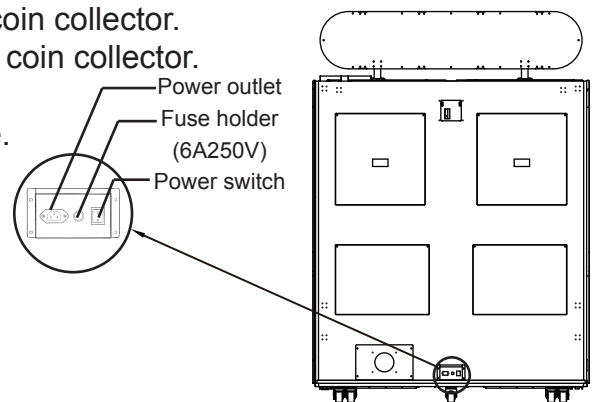
Before opening the service door, you can see the Service panel above the coin collector.



- BULLET OUT : After the switch is turned on, the bullets are shot constantly; turn it off, the bullets are shot after inserting coins.
- BULLET COUNT : Quantity of shot bullets.
- COIN-1 : Show the quantity of tokens in the left coin collector.
- COIN-2 : Show the quantity of tokens in the right coin collector.
- SPEED : Adjust the prize rack Up/Down speed.
- SETTING : To enter the corresponding Set mode.
- SELECT : Set mode key.
- POWER : Power switch.
- SOUND : Adjust the volume.

Fuse replacement:

1. Turn the fuse counterclockwise to remove it from the holder.
2. Remove the fuse from the holder.
3. Replace the fuse holder.
4. After replacing the fuse, tighten the holder clockwise.



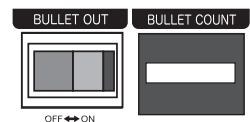
Caution Turn the power off before servicing of machine.

【Service Button Operation Instruction】

The service button hasn't been installed in this machine.

There are 2 methods if the coin machine is blocked or error.

1. When [BULLET OUT] is ON in the service panel, the cork bullets would be output all the time. Under this situation, the [BULLET COUNT] will be increased.
2. For the demo, press [SELECT] 2 seconds, [ou1] will be showed in 8 panel which stands for the coin selector on the left. Press [SETTING], [ou2] will be showed in 8 panel which stands for the coin selector on the right. Close the door of coin selector, press the left control key, and output the corresponding bullet. It won't be increased in table [coin 1&2], but [BULLET COUNT] will be increased.

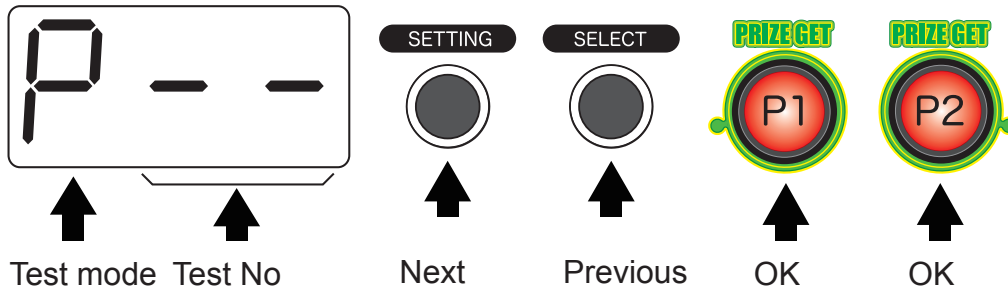


※ If the bullets are insufficient, the error of bullet shortage will be appeared → supplement bullets and press [SELECT], the output will be continued.

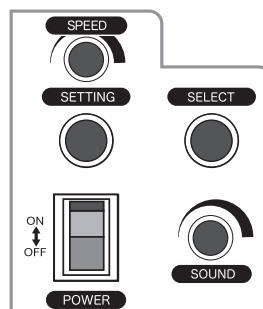
※ Cancel operation → press [SELECT] and return to demo mode.

4.2 Test Menu

Before opening the service door, you can see the Service panel above the coin collector.



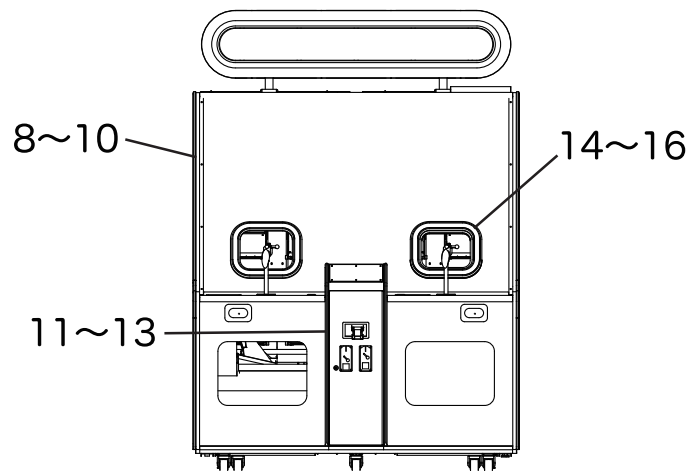
		<p>POWER ON</p> <ul style="list-style-type: none"> · Press the "SELECT" key on the Service panel and turn on the power switch at the same time to enter the Test mode. · After any error is given, press the "SELECT" key on the Service panel and turn on the power switch at the same time to enter the Test mode. 	
		<ul style="list-style-type: none"> · "SETTING" key: to switch to the Next mode 	
		<ul style="list-style-type: none"> · "SELECT" key: to switch to the Previous mode 	
		<ul style="list-style-type: none"> · To enter the chosen Test mode 	
			<ul style="list-style-type: none"> · Press the "SETTING" and "SELECT" key at the same time to exit the Test mode and return to the game · After power on, the machine will run automatically for about 15 seconds to initialize, and then run normally.



■ The following is the contents in Test mode

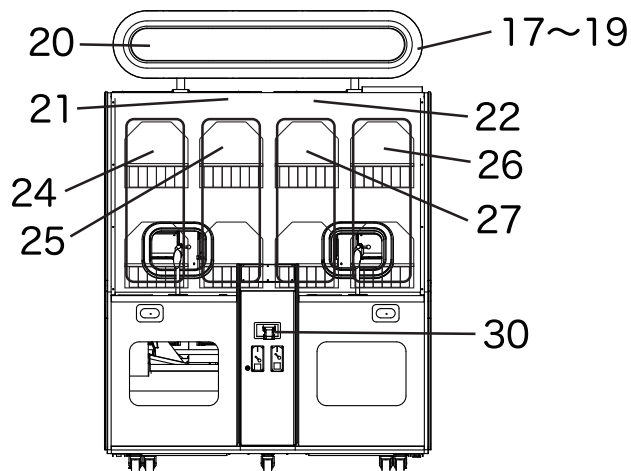
NO.	Test No.	Test Item	Remarks
1	P01	On Service panel:BULLET COUNT	
2	P02	On Service panel:COIN-1(left)	
3	P03	On Service panel:COIN-2(right)	
4	P04	Bullet conveying motor	
5	P05	Prize conveying motor	
6	P06	"Player 1" key LED	
7	P07	"Player 2" key LED	
8	P08	RGB LED at both sides of the machine is red	
9	P09	RGB LED at both sides of the machine is blue	
10	P10	RGB LED at both sides of the machine is green	
11	P11	RGB LED at both sides of the bullet vending machine is red	
12	P12	RGB LED at both sides of the bullet vending machine is blue	
13	P13	RGB LED at both sides of the bullet vending machine is green	
14	P14	RGB LED in the gun box is red	
15	P15	RGB LED in the gun box is blue	

Press "Player 1" or "Player 2" key to enter any option



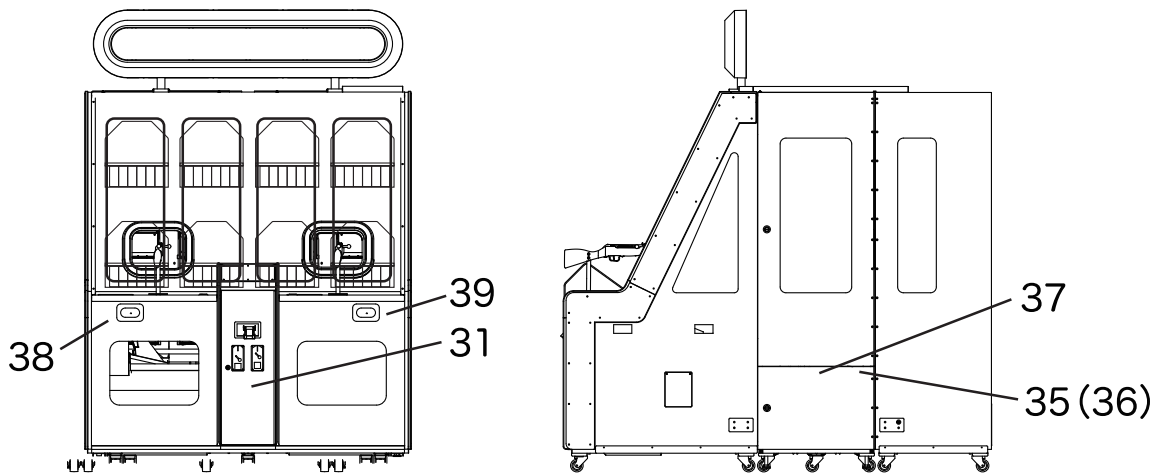
NO.	Test No.	Test Item	Remarks
16	P 16	RGB LED in the gun box is green	
17	P 17	RGB LED in top box is red	
18	P 18	RGB LED in top box is blue	
19	P 19	RGB LED in top box is green	
20	P 20	Fluorescent lamp in top box is white	
21	P 21	Winning LED in the machine is white	
22	P 22	Lighting fluorescent lamp in the machine is white	
23	P 23	Test Sound	Press "Player 1" or "Player 2" to switch to any one of the 6 sound effects
24	P 24	Left Group 1 prize rack motor running up and down	
25	P 25	Left Group 2 prize rack motor running up and down	
26	P 26	Left Group 3 prize rack motor running up and down	
27	P 27	Left Group 4 prize rack motor running up and down	
28	P 28	Test Coin Collector A (left)	give a "ding-dong" sound after inserting a coin
29	P 29	Test Coin Collector B (right)	give a "ding-dong" sound after inserting a coin
30	P 30	Test bullet outlet sensor	give "tinkling" sound after placing bullets

Press "Player 1" or "Player 2" key to enter any option



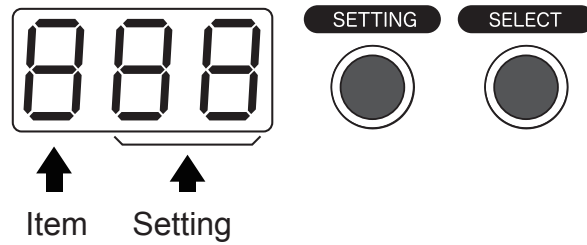
NO.	Test No.	Test Item	Remarks
31	P31	Test bullet box bottom sensor	Cover the bullet box sensor hole with a hand repeatedly, sound is given
32	P32	Test "BULLET OUT" key	Press "BULLET OUT" key, the conveyor will run
33	P33	Test "Player 1" key	Press "Player 1" key, give "beep" sound
34	P34	Test "Player 2" key	Press "Player 2" key, give "beep" sound
35	P35	Left machine door sensor	Give continuous "GOD, GOD" ringing, the door stops opening
36	P36	Right machine door sensor	Give continuous "GOD, GOD" ringing, the door stops opening
37	P37	Infrared prize detection system	As any object falls on to the conveyor, the music is playing
38	P38	Left prize door sensor	Open the prize door, the prize bag rotates to output prize
39	P39	Right prize door sensor	Open the prize door, the prize bag rotates to output prize
40	P40	Version of MPU program	Version:
41	P41	Version of motor driver board program	Version:
42	P42	Test the Eds	Display 8888888888 in sequence in cycle
43	P43	Test memory of main board	Display 808 for qualified, and 888 for disqualified

Press "Player 1" or "Player 2" key to enter any option

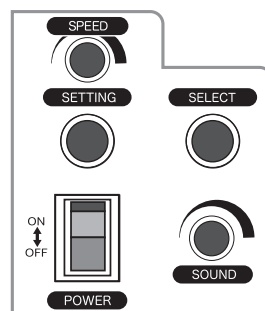


4.3 System Setting


Before opening the service door, you can see the Service panel above the coin collector.



		<ul style="list-style-type: none"> · Press the "SETTING" key to enter the Set mode. · As error code E6 ~ E21 displays, and will not disappear after re-start the power supply, press the "SETTING" key to enter the Set mode. · After NO. 5 ~ 8 is set, the operation at the fault position will stop.
		<ul style="list-style-type: none"> · Press "SETTING" key to switch to an item
		<ul style="list-style-type: none"> · Press "SELECT" key to select the item
		<ul style="list-style-type: none"> · Press "SETTING" key to change the value
		<ul style="list-style-type: none"> · Press "SELECT" key to confirm the value
		<ul style="list-style-type: none"> · Press "SELECT" and "SETTING" key to exit the Set menu and save the Setting. · The Setting becomes effect after shutdown and restart



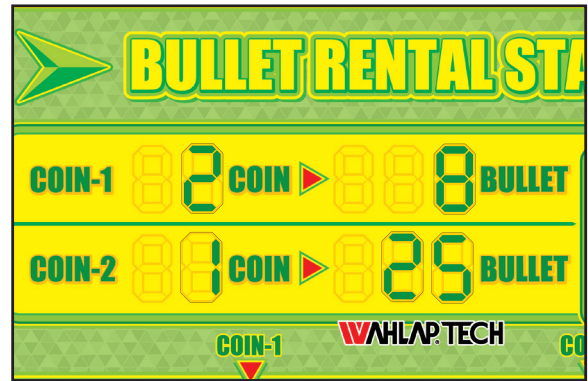
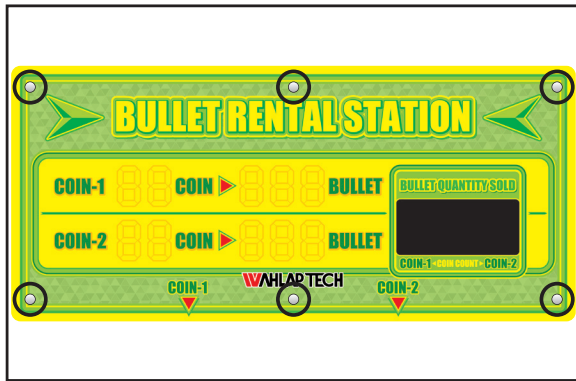
The following is the content of Set mode

NO.	8-word panel display	Set Item	Setting value	Default
1	A - -	Quantity of coins in collector (left)	01~09	02
2	b - -	Quantity of coins in collector (right)	01~09	01
3	C - -	Number of bullets in bullet vending machine (left)	01~ 99	08
4	d - -	Number of bullets in bullet vending machine (right)	01~ 99	25
5	e - -	Group 1 prize rack running mode	00 Stop /01 Running	01
6	F - -	Group 2 prize rack running mode	00 Stop /01 Running	01
7	G - -	Group 3 prize rack running mode	00 Stop /01 Running	01
8	H - -	Group 4 prize rack running mode	00 Stop /01 Running	01
9	L - -	Automatic motor (factory use)	00 Stop /01 Running	00
10	r - -	prize rack running mode 	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">01: All Running</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;">02: After inserting coins * All run within the set time * All stop after the set time</div> <div style="border: 1px solid black; padding: 5px;">03: After inserting coins * All run within the set time * Two groups run alternately after the set time (prize rack 1 and 3) (prize rack 2 and 4)</div>	03
In mode 02-03, the conveyor will not run after pressing OK after the set time.				
11	o - -	prize rack running period setting	05~95minutes Will not run after r 0 1 minutes.	20
12	h - -	the work of the state of the coin selector (right) lock	00: Low level output 01: High level output	01

4.4 Instructions of stickers

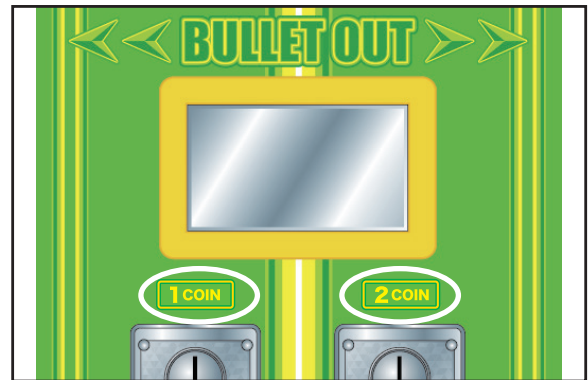
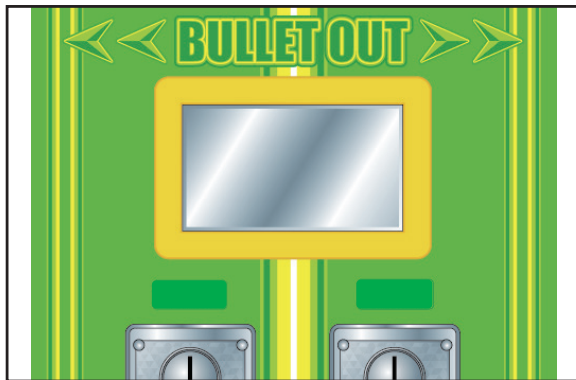
■ Digital stickers

Remove the 6 screws and transparent acrylic at top of bullet vending machine, affix digital stickers in desired quantity, and then mount the 6 screws and transparent acrylic in reverse order.



■ Price sticker

Affix price stickers in desired quantity on the coin collector in front of the bullet vending machine.



■ Window action description sticker

In Set r02 or r03 mode, affix the action sticker under the window.
(When the prize rack is set to r02 or r03 mode, the motor and linear bearings motion time can be effectively reduced, to ensure longer service time.)

Prize boxes moving up and down when in the game.



4.5 Win rate reference

Test mode:

Prize placement : Center of the stage

Position of the last target : Left third


Shooting target : White point area above
the third largest target

Weight of prizes : See the table below

For targets knockdown difficulty adjustment,
see section 4.5.1

Target knockdown win rate percentage
(maximum motor speed)



Difficulty \ Weight of prizes	0kg	0.5kg	1.0kg	Probability to hit this position 
	Level-1	Level-2	Level-3	
Level-1	100%	63.6%	46.7%	
Level-2	77.8%	33.3%	10.3%	
Level-3	35.7%	5.6%	2.4%	

(The table is only for reference)

Caution

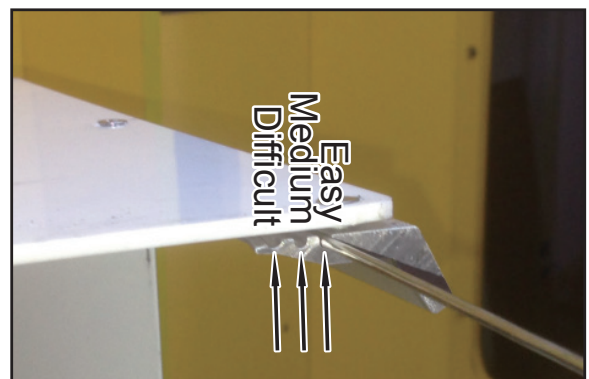
- The size and the order of targets may be changed as required by the stores. The accessories box houses 96 alternate targets, including three kinds of sizes, and there are 32 pieces for each size.



4.5.1 Win rate (knockdown target) difficulty level setting

Loosen the 3 screws using a screwdriver to adjust the position of the iron, set the target knockdown difficulty level.

(total 3 levels: Level-1: easy; Level-2 medium; Level-3: difficult)

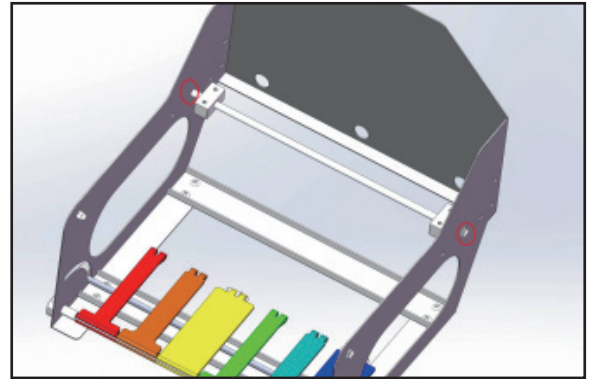
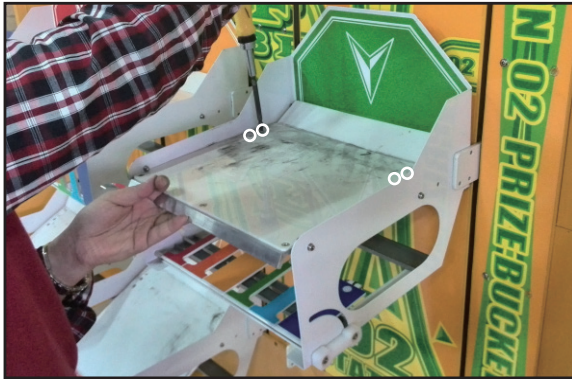


4.5.2 Slide difficulty level setting

! Caution

- After Level-3: difficult in section 4.5.1 3 is set, if the win rate is still too high, set as the following figure.

- 1.Remove the 4 screws with a Phillips screwdriver. Remove the slide.
- 2.Remove the 2 trio screws with a Phillips screwdriver. Move Rod 1 and the 2 sliders to the rear hole.

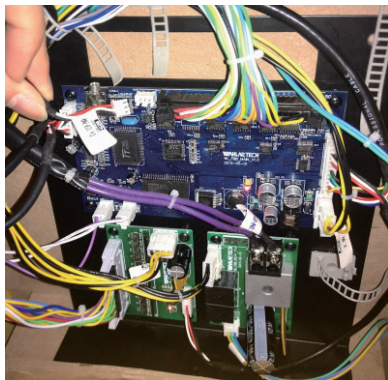
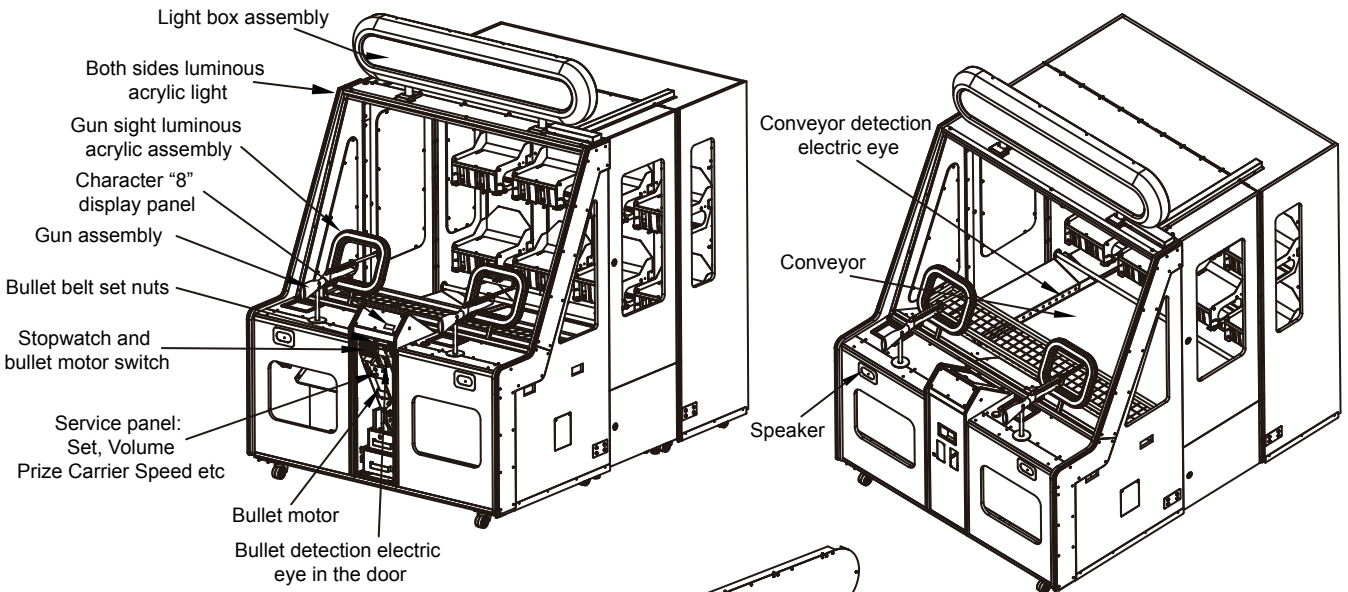


4.5.3 Difficulty setting via adjustment of motor speed

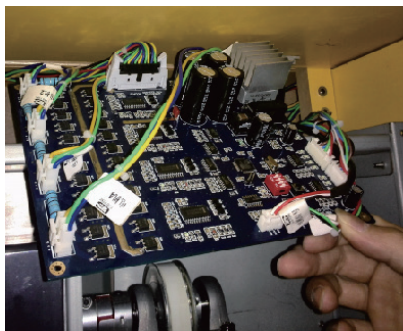
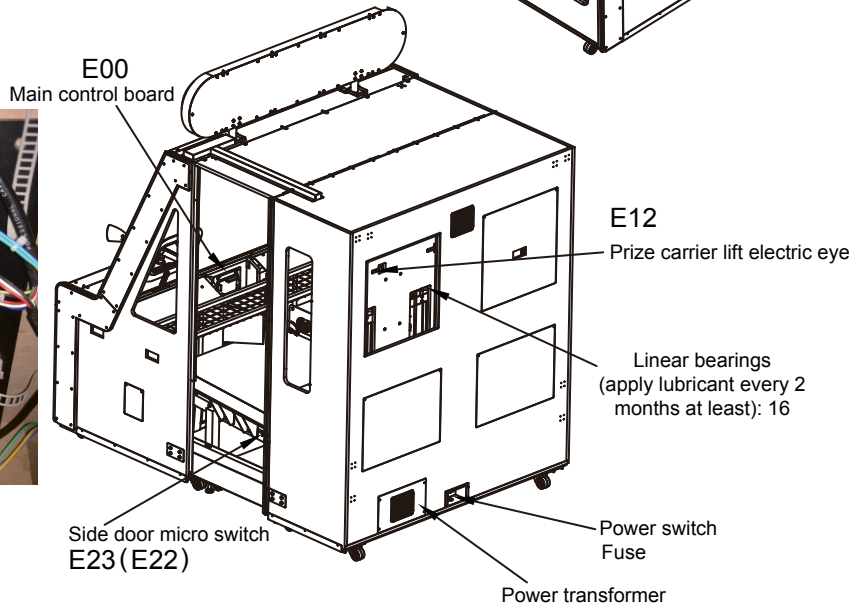
The higher the Prize carrier up/down speed, the higher the level of difficulty.



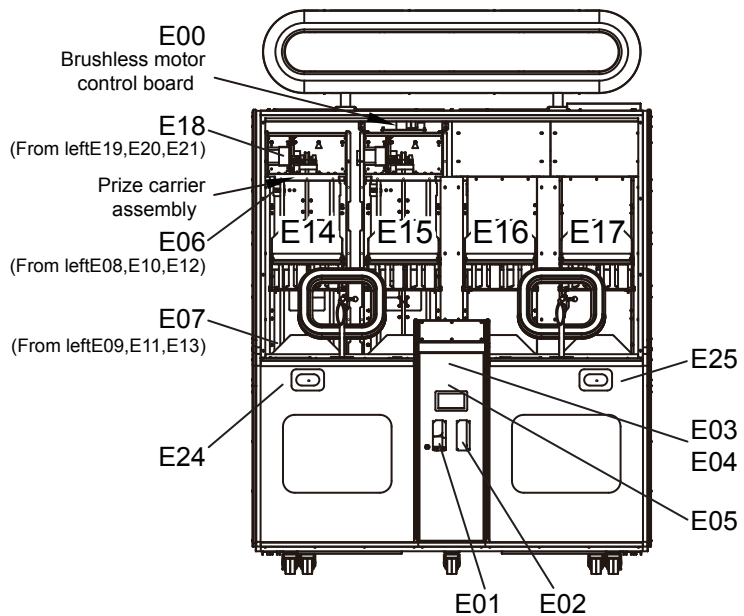
4.6 Position of fragile components



Main control board
WL_FBB_MAIN_V1.0



Brushless motor control board
WL_FBB_BLDC-V1.0



4.7 Troubleshooting

1/2

Error code	Meaning	Reason	Measure	Remark	Error position
E00	Communication failure	Main control board and brushless motor board communication failure	1、 Check the wiring and plug. Re-plug the wire and restart. 2、 Replace the main control board and/or brushless motor control board		See Page 18 · 42
E01	Coin collector A Coin error	Coin pulse width does not meet the requirements, qualified pulse width: 20ms-500ms	1、 Check the wiring and plug. Check for short circuit. 2、 Adjust the coin collector pulse width 3、 Replace the coin collector	Qualified pulse width: 20ms-500ms	See Page 42
E02	Coin collector B Coin error	Coin pulse width does not meet the requirements, qualified pulse width: 20ms-500ms	1、 Check the wiring and plug. Check for short circuit. 2、 Adjust the coin collector pulse width 3、 Replace the coin collector	Qualified pulse width: 20ms-500ms	See Page 42
E03	There are bullets in the box; bullet shooting timeout	1、 Bullet not enough, cannot enter the conveyor belt	Add bullets		See Page 43
		2、 Conveyor belt loose	Adjust the tension of conveyor belt		
		3、 Conveyor belt is damaged	Replace the conveyor belt		
		4、 Conveyor motor does not run	Check the wiring and plug/replace the motor		
		5、 Bullet outlet or the beam photoelectric switch in the bullet box is not normal	Check the wiring and plug/replace beam photoelectric switch		
		6、 Main control board is damaged	Check the wiring and plug/replace the main control board		
E04	No bullet is detected in the box	1、 No bullet or not enough	Add bullets		See Page 44
		2、 Beam photoelectric switch in the bullet box is not normal	Check the wiring and plug/replace beam photoelectric switch		
		3、 Main control board is damaged	Check the wiring and plug/replace the main control board		
E05	Bullet output error	1、 Bullet output beam photoelectric switch is damaged	Check the wiring and plug/replace beam photoelectric switch		See Page 44
		2、 Bullet output is vandalized			
		3、 Main control board is damaged	Check the wiring and plug/replace the main control board		
E06	Motor 1 upper sensor fault	1、 Upper sensor is not normal	Check the wiring and plug/replace the sensor		See Page 45
		2、 Brushless motor 1 does not run	Check the wiring and plug/replace the brushless motor		
		3、 Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E07	Motor 1 lower sensor fault	1、 Lower sensor is not normal	Check the wiring and plug/replace the sensor		See Page 46
		2、 Brushless motor 1 does not run	Check the wiring and plug/replace the brushless motor		
		3、 Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E08	Motor 2 upper sensor fault	1、 Upper sensor is not normal	Check the wiring and plug/replace the sensor		See Page 46
		2、 Brushless motor 2 does not run	Check the wiring and plug/replace the brushless motor		
		3、 Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E09	Motor 2 lower sensor fault	1、 Lower sensor is not normal	Check the wiring and plug/replace the sensor		See Page 46
		2、 Brushless motor 2 does not run	Check the wiring and plug/replace the brushless motor		
		3、 Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E10	Motor 3 upper sensor fault	1、 Upper sensor is not normal	Check the wiring and plug/replace the sensor		See Page 46
		2、 Brushless motor 3 does not run	Check the wiring and plug/replace the brushless motor		
		3、 Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E11	Motor 3 lower sensor fault	1、 Lower sensor is not normal	Check the wiring and plug/replace the sensor		See Page 46
		2、 Brushless motor 3 does not run	Check the wiring and plug/replace the brushless motor		
		3、 Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E12	Motor 4 upper sensor fault	1、 Upper sensor is not normal	Check the wiring and plug/replace the sensor		See Page 46
		2、 Brushless motor 4 does not run	Check the wiring and plug/replace the brushless motor		
		3、 Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E13	Motor 4 lower sensor fault	1、 Lower sensor is not normal	Check the wiring and plug/replace the sensor		See Page 46
		2、 Brushless motor 4 does not run	Check the wiring and plug/replace the brushless motor		
		3、 Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		

After troubleshooting, press "Select" key to release the error.

Error code	Meaning	Reason	Measure	Remark	Error position
E14	Motor 1 Overcurrent	1. Brushless motor 1 does not run	Check the wiring and plug/replace the brushless motor		See Page 46
		2. Bearing is worn, timing belt is too loose	Replace the rail		
		3. Rail deformed, coupler loose	Tighten/replace the coupler		
		4. Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E15	Motor 2 Overcurrent	1. Brushless motor 2 does not run	Check the wiring and plug/replace the brushless motor		See Page 47
		2. Bearing is worn, timing belt is too loose	Replace the rail		
		3. Rail deformed, coupler loose	Tighten/replace the coupler		
		4. Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E16	Motor 3 Overcurrent	1. Brushless motor 3 does not run	Check the wiring and plug/replace the brushless motor		See Page 47
		2. Bearing is worn, timing belt is too loose	Replace the rail		
		3. Rail deformed, coupler loose	Tighten/replace the coupler		
		4. Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E17	Motor 4 Overcurrent	1. Brushless motor 4 does not run	Check the wiring and plug/replace the brushless motor		See Page 47
		2. Bearing is worn, timing belt is too loose	Check the wiring and plug/replace the brushless motor		
		3. Rail deformed, coupler loose	Tighten/replace the coupler		
		4. Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor control board		
E18	Motor 1 does not run	1. Brushless motor 1 does not run	Check the wiring and plug/replace the brushless motor		See Page 48
		2. Coupler loose	Tighten/replace the coupler		
		3. Brushless motor control board is not normal	Check the wiring and plug/replace the brushless motor		
E19	Motor 2 does not run	1. Brushless motor 2 does not run	Check the wiring and plug/replace the brushless motor		See Page 48
		2. Coupler loose	Tighten/replace the coupler		
		3. Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor		
E20	Motor 3 does not run	1. Brushless motor 3 does not run	Check the wiring and plug/replace the brushless motor		See Page 48
		2. Coupler loose	Tighten/replace the coupler		
		3. Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor		
E21	Motor 4 does not run	1. Brushless motor 4 does not run	Check the wiring and plug/replace the brushless motor		See Page 48
		2. Coupler loose	Tighten/replace the coupler		
		3. Brushless motor board is not normal	Check the wiring and plug/replace the brushless motor		
E22	Left door sensor fault	1. The left door did not close	Door closed in place		See Page 49
		2. Micro switch fault	Check the wiring and plug/replace the micro switch		
		3. Main control board is not normal	Check the wiring and plug/replace the main control board		
E23	Right door sensor fault	1. The right door did not close	Door closed in place		See Page 50
		2. Micro switch fault	Check the wiring and plug/replace the micro switch		
		3. Main control board is not normal	Check the wiring and plug/replace the main control board		
E24	Prize outlet door (left) sensor fault	1. Door opening time longer than 30 seconds	Lower Prize outlet door	Give error as the door opening time longer than 30 seconds	See Page 50
		2. Beam photoelectric switch fault	Check the wiring and plug/replace beam photoelectric switch		
		3. Main control board is not normal	Check the wiring and plug/replace the main control board		
E25	Prize outlet door (right) sensor fault	1. Door opening time longer than 30 seconds	Lower Prize outlet door	Give error as the door opening time longer than 30 seconds	See Page 51
		2. Beam photoelectric switch fault	Check the wiring and plug/replace beam photoelectric switch		
		3. Main control board is not normal	Check the wiring and plug/replace the main control board		

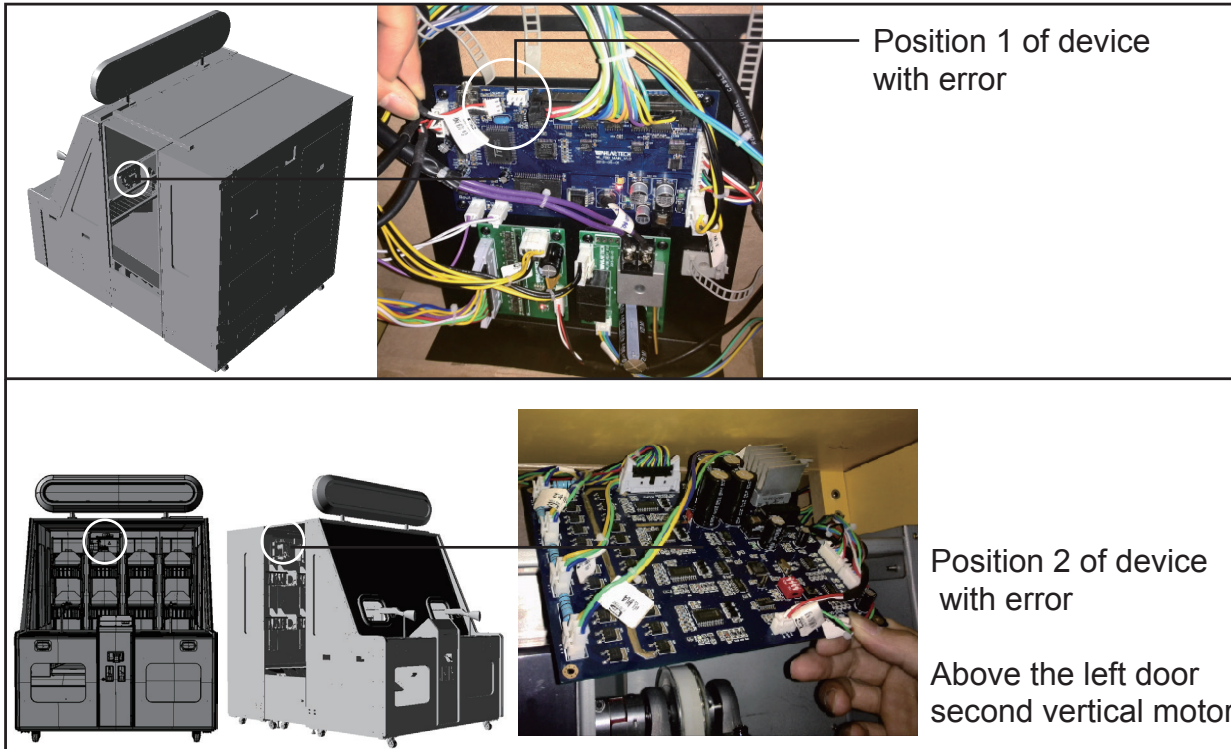
After troubleshooting, press "Select" key to release the error.

Caution

- 1. After E00/E22/E23/E24/E25 is eliminated without shutdown, the machine can continue to operate normally immediately.
- 2. After E01~E21 is eliminated without shutdown, the machine can only continue to operate normally after the "Select" key is pressed.
- 3. One of E06 ~ E21 error occurs during booting. If the problem cannot be resolved, press the "Select" key on the error screen to enter the motor work status settings. Turn off the corresponding motor.

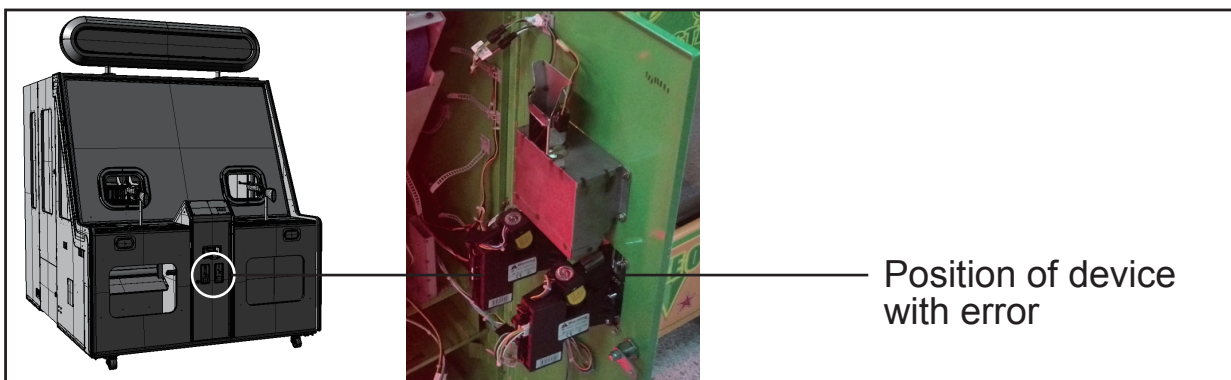
4.7.1 Position of devices with E00 communication failure error

- 1.E00 : Position of devices with communication failure error
- 2.For the main reason and troubleshooting, see P40.



4.7.2 Position of devices with E01 and E02 error

- 1.E01: Position of devices with coin collector A coin error.
E02: Position of devices with coin collector B coin error.
- 2.For the main reason and troubleshooting, see P40.

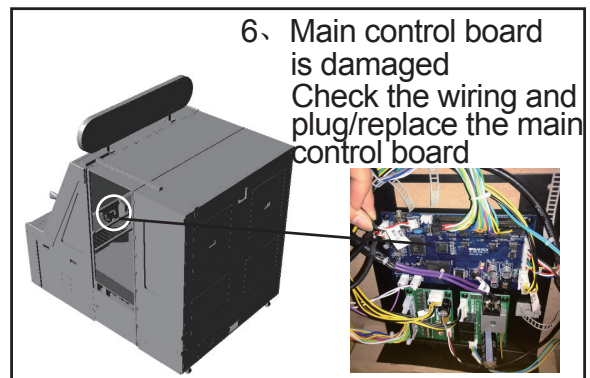
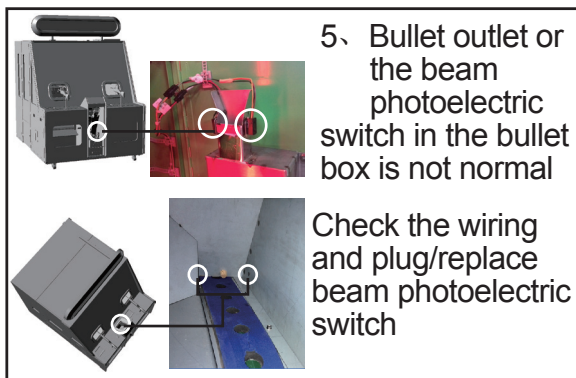
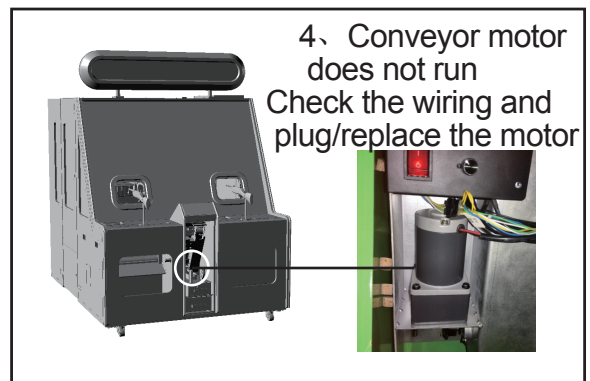
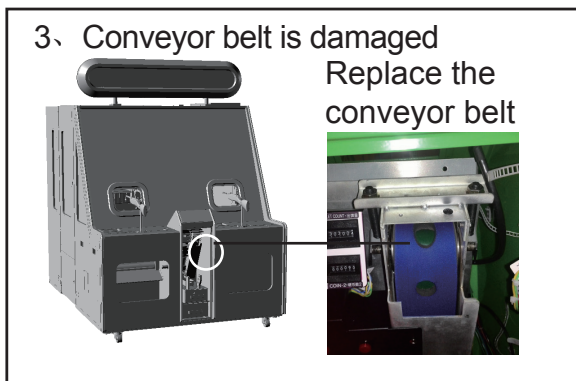
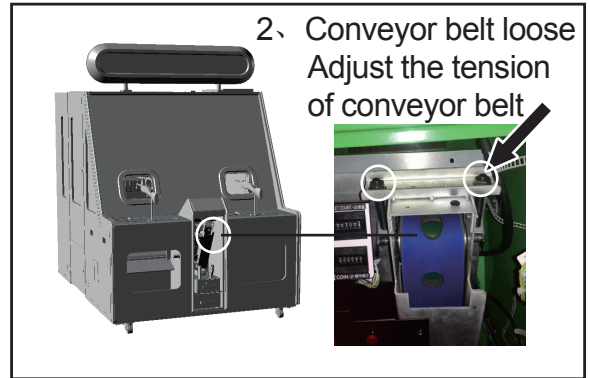
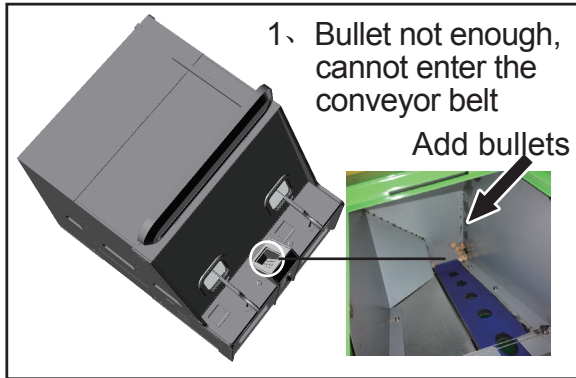


4.7.3 Position of devices with E03 error

1.E03: There are bullets in the box; bullet shooting timeout. There are 6 positions of devices with error, as shown below.

2.For the main reason and troubleshooting, see P40.

Position of 6 devices with error:

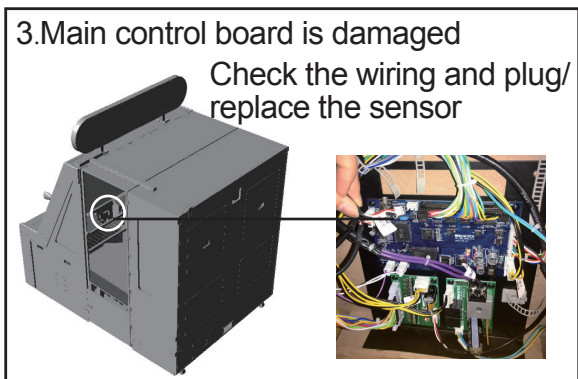
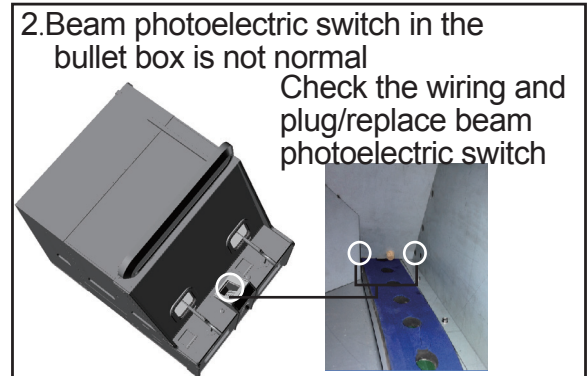
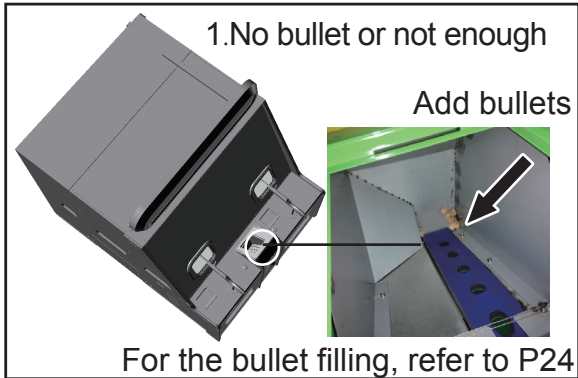


4.7.4 Position of devices with E04 error

1.E04: No bullet is detected in the box. There are 3 positions of devices with error, as shown below.

2.For the main reason and troubleshooting, see P40.

Position of 3 devices with error:

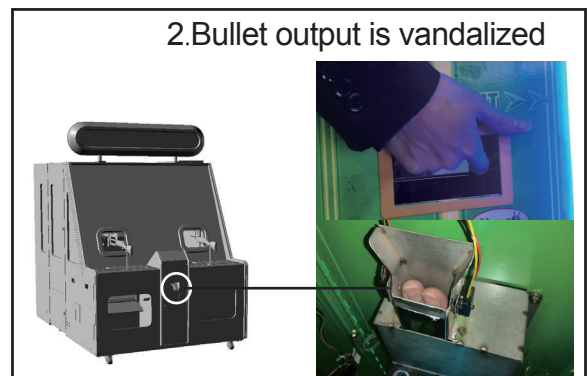
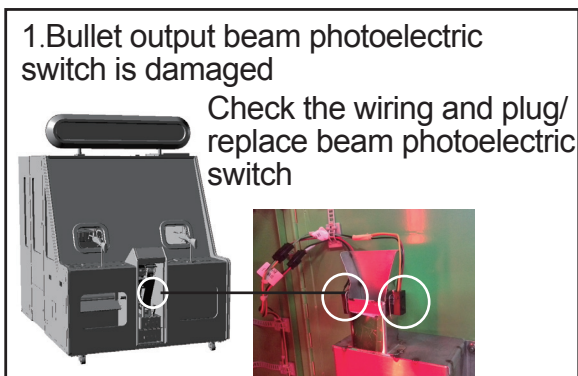


4.7.5 Position of devices with E05 error

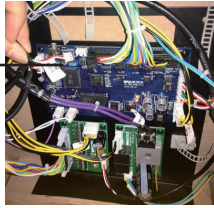
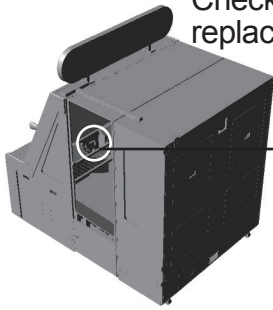
1.E05: Bullet output error. There are 3 positions of devices with error, as shown below.

2.For the main reason and troubleshooting, see P40.

Position of 3 devices with error:



3. Main control board is damaged
 Check the wiring and plug/
 replace the main control
 board

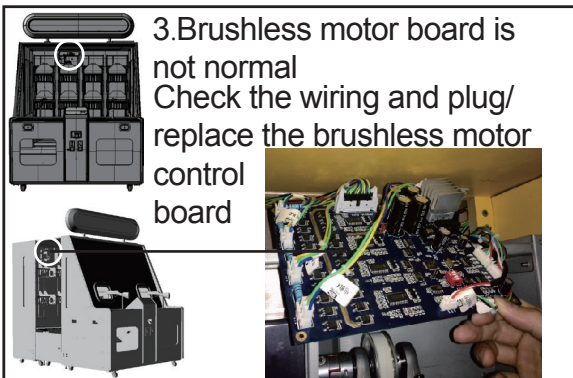
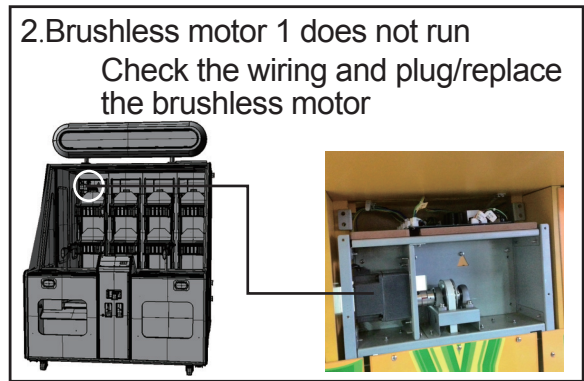
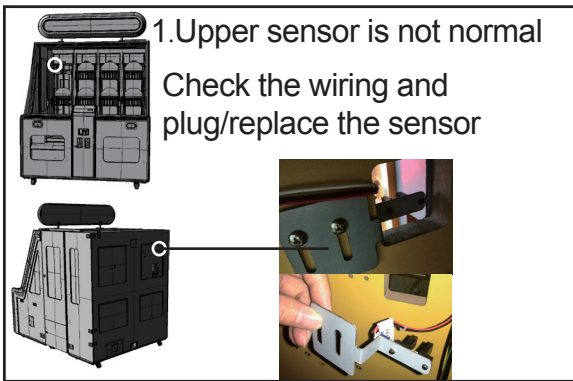


4.7.6 Position of devices with E06 error

1. E06: Motor 1 upper sensor fault. There are 3 positions of devices with error, as shown below.

2. For the main reason and troubleshooting, see P40.

Position of 3 devices with error:



Caution

- Troubleshoot error E07, E08, E09, E10, E11, E12 and E13 in the same way as error code E06.

4.7.7 Position of devices with E07,E08,E09,E10,E11,E12 and E13 error

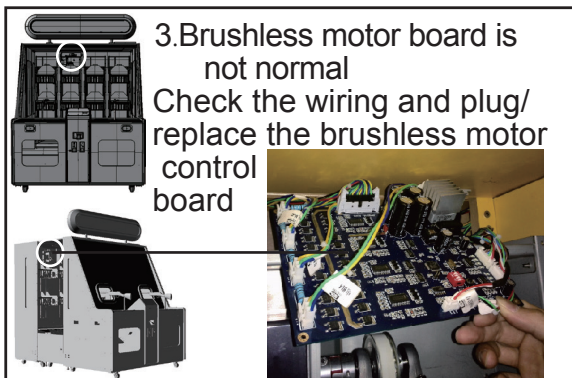
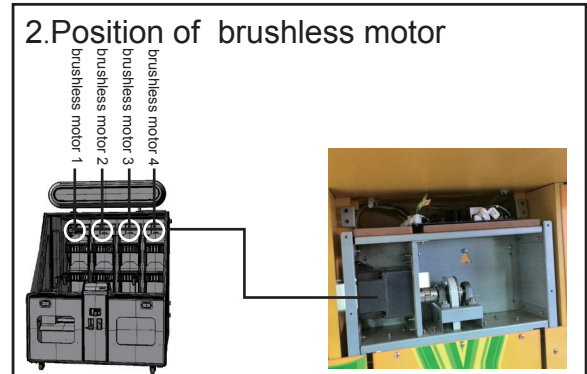
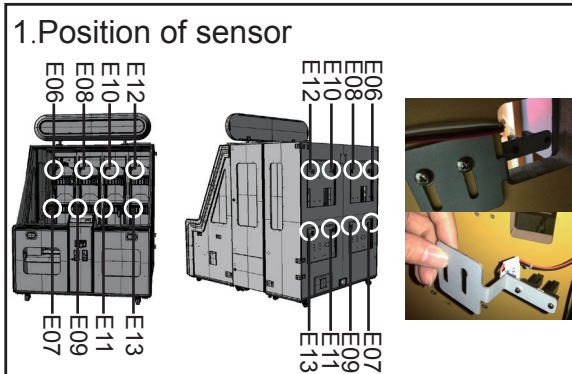
1.E06、 E08、 E10、 E12 error: motor upper sensor fault. Troubleshoot in the same way as error code E06.

E07、 E09、 E11、 E13 error: motor lower sensor fault. Troubleshoot in the same way as error code E06.

There are 3 positions of devices with error, as shown below.

2.For the main reason and troubleshooting, see P40.

Position of 3 devices with error:



⚠ Caution

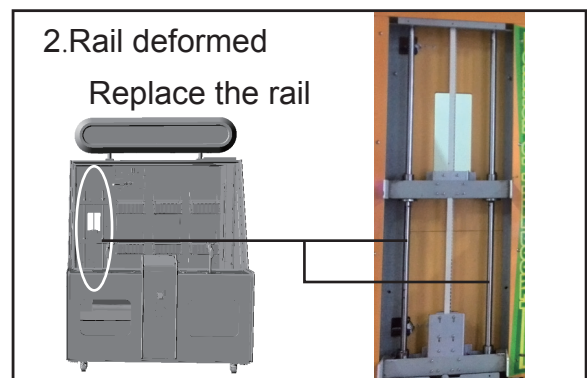
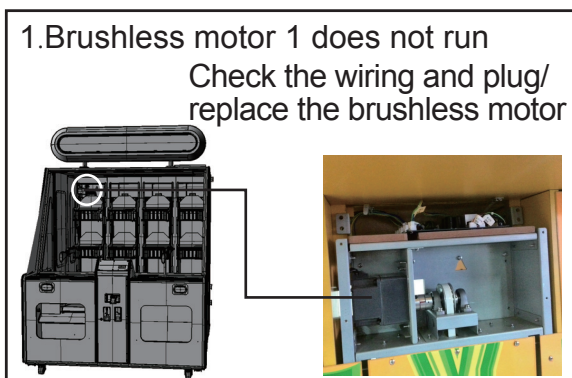
- Troubleshoot error E07,E08,E09, E10,E11,E12 and E13 in the same way as error code E06.

4.7.8 Position of devices with E14 error

1.E14: Motor 1 overcurrent fault. There are 4 positions of devices with error, as shown below.

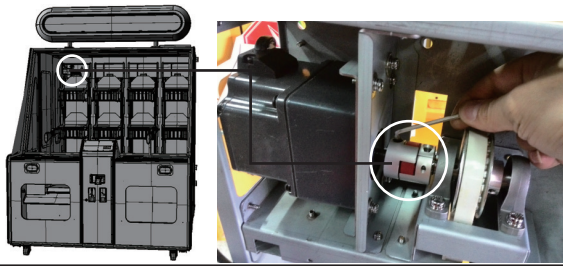
2.For the main reason and troubleshooting, see P40.

Position of 4 devices with error:

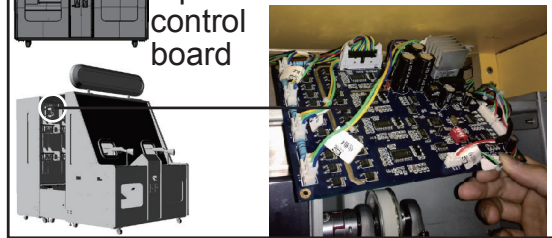


3.coupler loose

Tighten/replace the coupler



4.Brushless motor board is not normal
Check the wiring and plug/
replace the brushless motor control board



! Caution

- Troubleshoot error E15,E16 and E17 in the same way as error code E14.

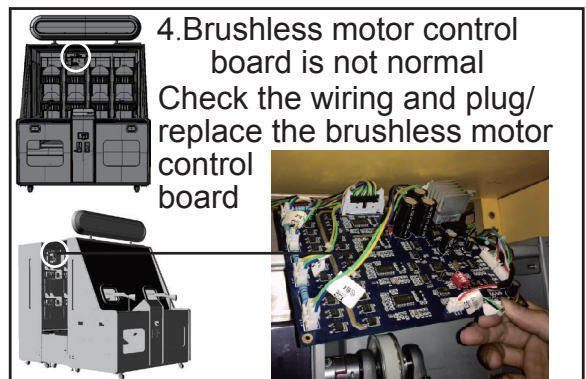
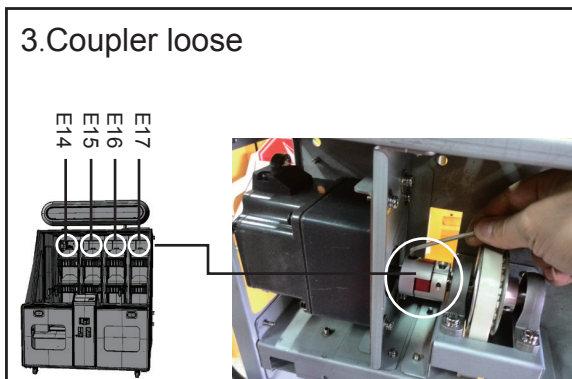
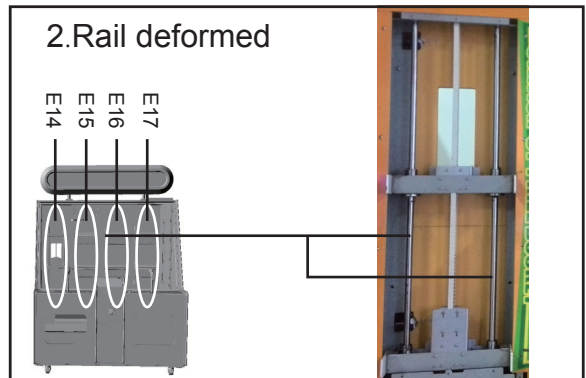
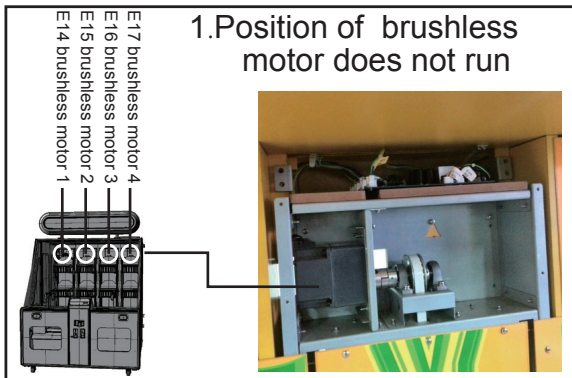
4.7.9 Position of devices with E15,E16 and E17 error

1.E15、 E16、 E17 error: Motor overcurrent fault. Troubleshoot in the same way as error code E14.

. There are 4 positions of devices with error, as shown below.

2.For the main reason and troubleshooting, see P40.

Position of 4 devices with error:



! Caution

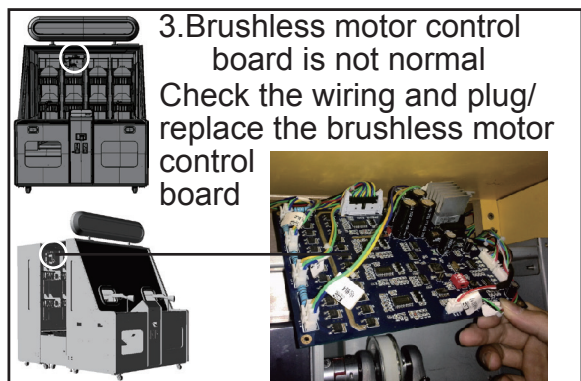
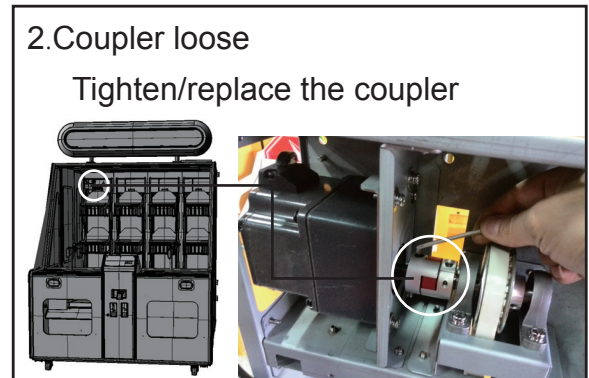
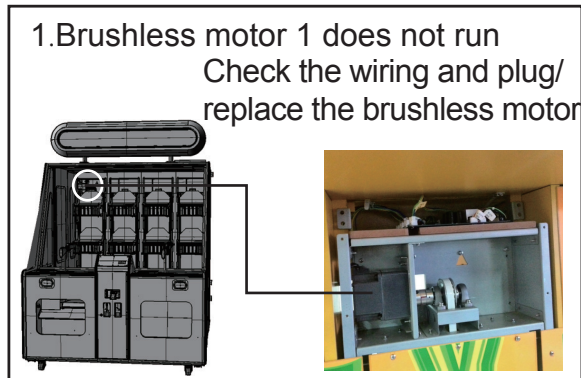
- Troubleshoot error E15,E16 and E17 in the same way as error code E14.

4.7.10 Position of devices with E18 error

1.E18 error: Motor 1 does not run. There are 4 positions of devices with error, as shown below.

2.For the main reason and troubleshooting, see P40.

Position of 3 devices with error:



! Caution

- Troubleshoot error E19,E20 and E21 in the same way as error code E18.

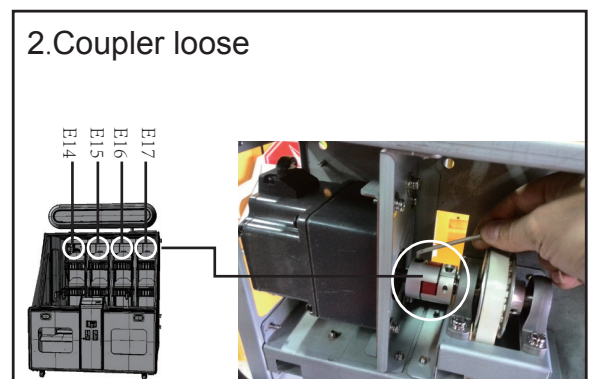
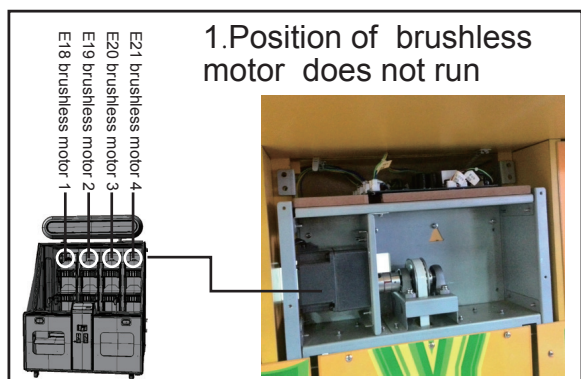
4.7.11 Position of devices with E19,E20 and E21 error

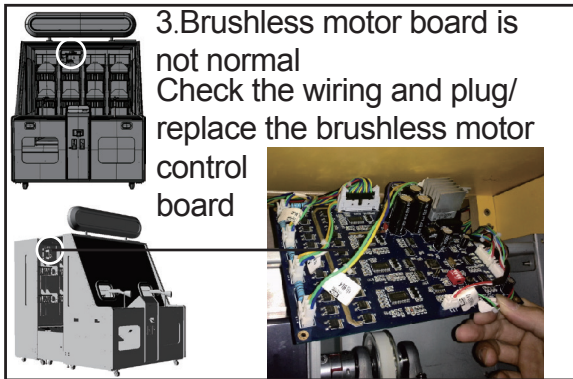
1.E19、 E20、 E21 error: Motor does not run. Troubleshoot in the same way as error code E18.

. There are 3 positions of devices with error, as shown below.

2.For the main reason and troubleshooting, see P40.

Position of 3 devices with error:





3. Brushless motor board is not normal
Check the wiring and plug/
replace the brushless motor control board

⚠ Caution

- Troubleshoot error E19, E20 and E21 in the same way as error code E18.

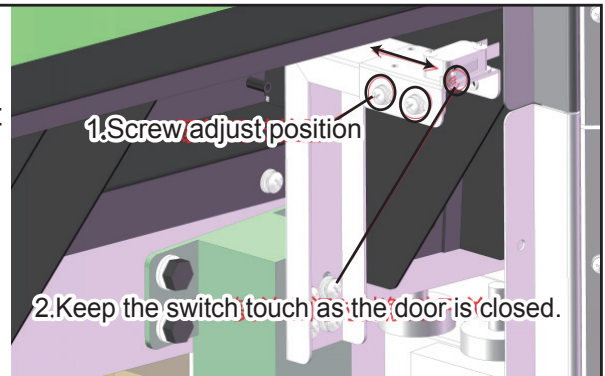
4.7.12 Position of devices with E22 error

1. E22 error: Left door sensor fault. There are 3 positions of devices with error, as shown below.
 2. For the main reason and troubleshooting, see P40.
- Position of 3 devices with error:

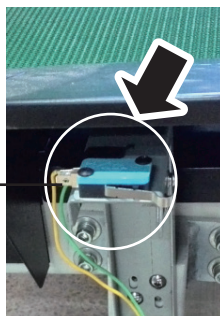
1. The left door did not close



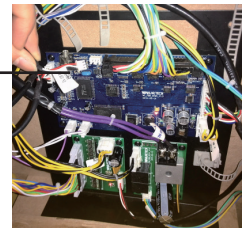
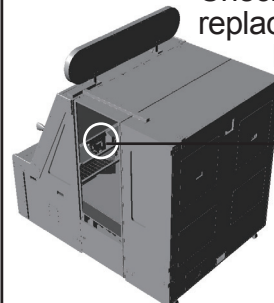
Close the door in place.
Adjust in order in the right figure.



2. Micro switch fault
Check the wiring and plug/
replace the micro switch



3. Main control board is not normal
Check the wiring and plug/
replace the main control board



⚠ Caution

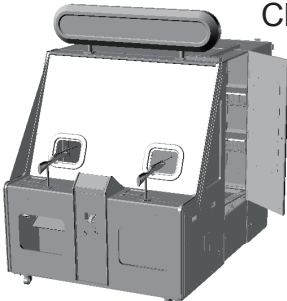
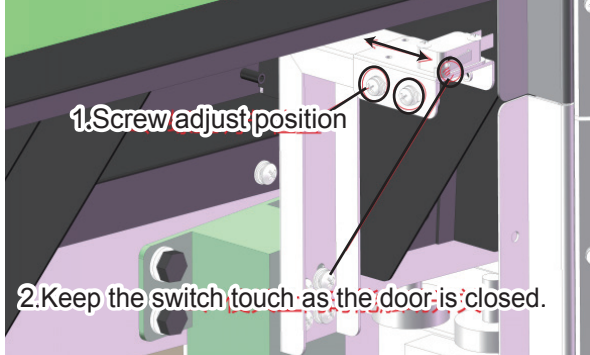
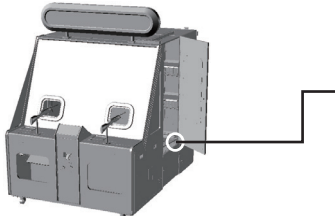

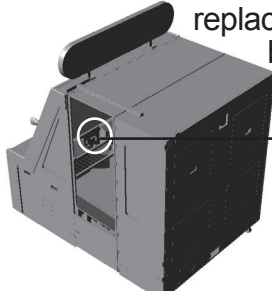
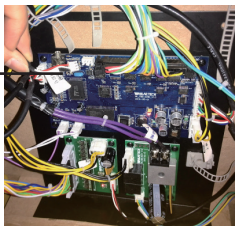
- Troubleshoot error E23 in the same way as error code E22.

4.7.13 Position of devices with E23 error

1.E23 error: Right door sensor fault. There are 3 positions of devices with error, as shown below.

2.For the main reason and troubleshooting, see P40.

Position of 3 devices with error:

<p>1.The left door did not close</p> <p>Close the door in place. Adjust in order in the right figure.</p> 	 <p>1.Screw adjust position</p> <p>2.Keep the switch touch as the door is closed.</p>
<p>2.Micro switch fault</p> <p>Check the wiring and plug/replace the micro switch</p>  	<p>3.Main control board is not normal</p> <p>Check the wiring and plug/ replace the main control board</p>  

! Caution

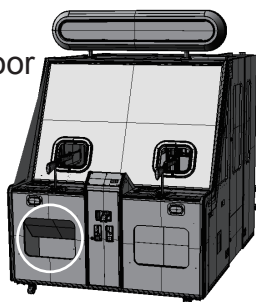
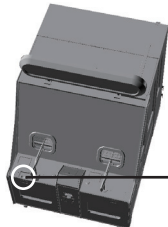

- Troubleshoot error E22 in the same way as error code E23.

4.7.14 Position of devices with E24 error

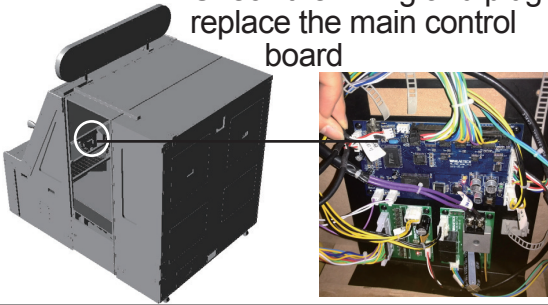
1.E24 error: Prize outlet door (left) sensor fault. There are 3 positions of devices with error, as shown below.

2.For the main reason and troubleshooting, see P40.

Position of 3 devices with error:

<p>1.Door opening time longer than 30 seconds</p> <p>Lower prize outlet door</p> 	<p>2.Beam photoelectric switch fault</p> <p>Check the wiring and plug/replace the beam photoelectric switch</p>  
--	--

3. Main control board is not normal
Check the wiring and plug/
replace the main control
board



! Caution

- Troubleshoot error E25 in the same way as error code E24.

4.7.15 Position of devices with E25 error

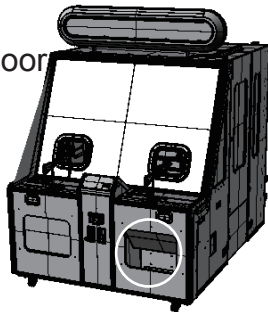
1. E25 error: Prize outlet door (right) sensor fault. There are 3 positions of devices with error, as shown below.

2. For the main reason and troubleshooting, see P40.

Position of 3 devices with error:

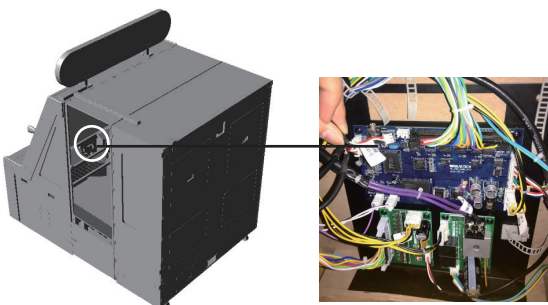
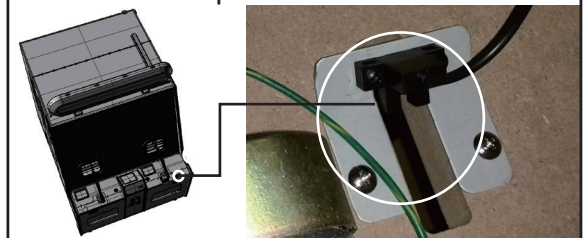
1. Door opening time longer than 30 seconds

Lower prize outlet door



2. Beam photoelectric switch fault

Check the wiring and plug/
replace the beam photoelectric switch

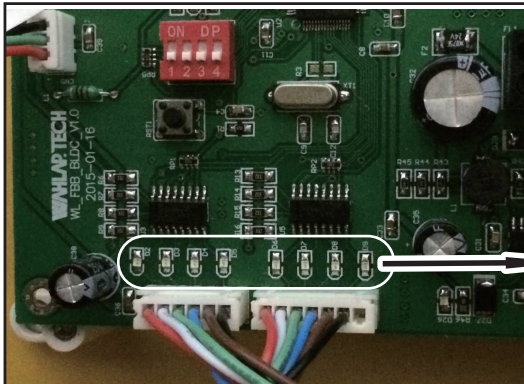


! Caution

- Troubleshoot error E24 in the same way as error code E25.

4.8 Troubleshooting of motor limit sensor

1.LED position



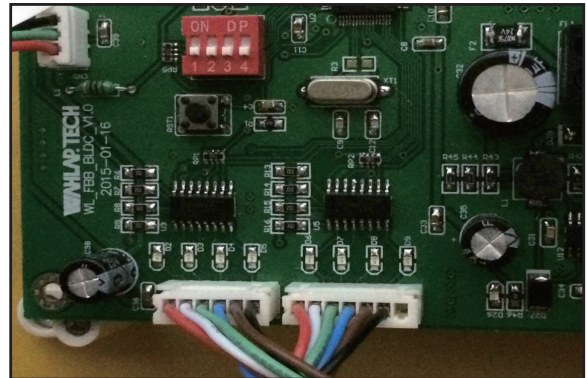
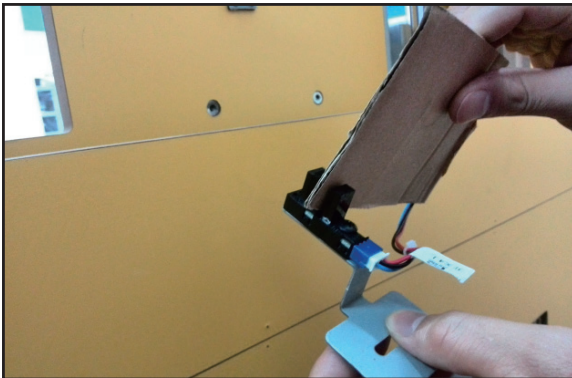
Brushless motor control board

ON : running
OFF : Fault
Pass the sensor : Instant off

E06	E07	E08	E09	E10	E11	E12	E13
brushless motor 1 : Upper sensor	brushless motor 1 : Lower sensor	brushless motor 2 : Upper sensor	brushless motor 2 : Lower sensor	brushless motor 3 : Upper sensor	brushless motor 3 : Lower sensor	brushless motor 4 : Upper sensor	brushless motor 4 : Lower sensor

2.Check whether the sensor is damaged

Open the rear door after starting. Remove the sensor. Put the flap in the U-groove, if the LED is off, the sensor is normal.

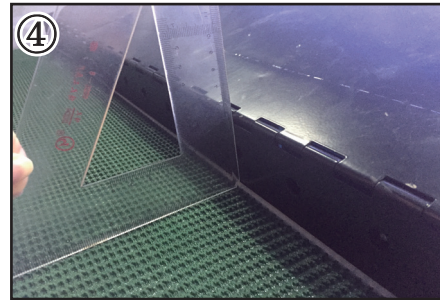
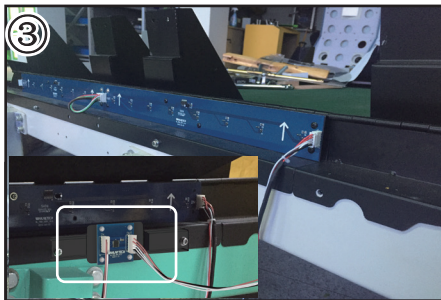
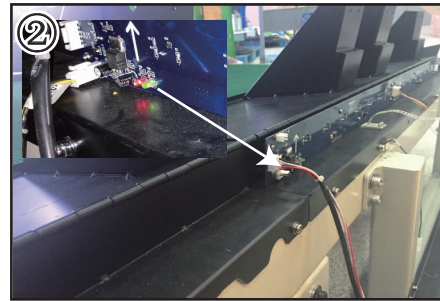
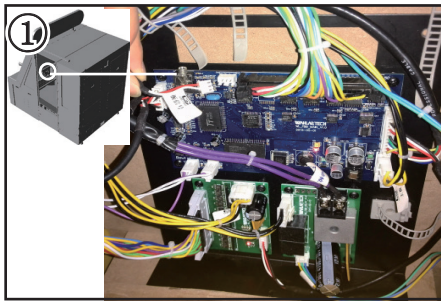


3.Instruction of LED sensor

Motor No.	LED	Light through	Light blocked
No. 1 brushless motor	D2-Upper sensor LED	On	Off
	D3-Lower sensor LED	On	Off
No. 2 brushless motor	D4-Upper sensor LED	On	Off
	D5-Lower sensor LED	On	Off
No. 3 brushless motor	D6-Upper sensor LED	On	Off
	D7-Lower sensor LED	On	Off
No. 4 brushless motor	D8-Upper sensor LED	On	Off
	D9-Lower sensor LED	On	Off

4.9 Conveyor infrared failure

Fault	Reason	Measure	Error position
No gift detected	1.Wiring of main control board fault	Check the wiring and plug	Refer to Figure ①
	2.Main control board failure	Replace the main control board	Refer to Figure ①
	3.Infrared detection board/ Infrared detection driver board failure	Block the light eye in infrared board with a hand, and check if the green LED shown in the below figure is lit. Replace the infrared board/infrared driver board if it is not lit.	Refer to Figure ②,③
Prompt Win without prizes	1.Wiring of infrared system fault	Check the wiring and plug	Refer to Figure P18
	2.Infrared board/infrared driver board failure	Block the light eye in infrared board with a hand, and check if the green LED shown in the below figure is lit. Replace the infrared board/infrared driver board if it is not lit.	Refer to Figure ②,③
	3.Hardware deformation	Correct the infrared fastener rack so that it is perpendicular to the conveyor belt.	Refer to Figure ④



Caution

Do not step on the black hardware rack at both sides of the conveyor as adding prizes.

4.10 Restore factory settings

■ Restore factory settings

Press and hold the "Setting" key and the "Select" key, and then start the machine. Release the keys after CLE is displayed.



■ Clear the remaining coins

Press and hold the "Select" key, and then start the machine. Release the keys after CON is displayed.



5. Maintenance and Service

5.1 Maintenance and service

Even though the machine works normally for a long time, the fault will occur. Therefore, please perform routine check and maintenance concerning the following to ensure a long-term use.

■ External Inspection

- Stick “Warning” stickers correctly, keep it legible.
- Firmly tighten the bolt for each adjuster.
- Tighten screws for speaker assembly.
- Tighten the signboard firmly.
- Check if the screws fixing the parts loose.
- Check if the connectors loose or missing.

■ Operation Inspection (With power on)

- Sound is normally emitted from the speakers or not.
- Fluorescent lamps and button lamps light up or not
- Coin acceptor works properly or not.
- Lifting and falling devices work properly or not.
- YZ sensor works properly or not.

After completing all the checks, operate the game again and check the above items with full care!

■ Servicing (conducted by a technician only)

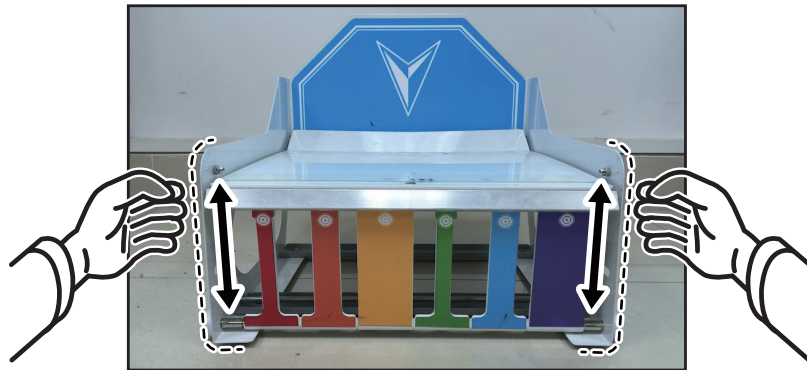
- Cut off the main power supply to avoid injury or electric shock when performing maintenance.
- Please contact our service center when performing any work that is not specified in this Manual, and follow the instruction provided by the service center.
- For consumables and spare parts (including screws), please use products specified by Wahlap Technology.
- Even though the main power is cut off, there is still high temperature and high pressure in the power board and the monitor. The person will be burnt or get an electric shock if he touches such parts. Please pay full attention to avoid contact.
- Be sure to cut off the main power when you alter a spare part or unplug a connector.

5.2 Part Replacement

5.2.1 Replacement of prize carrier assembly A

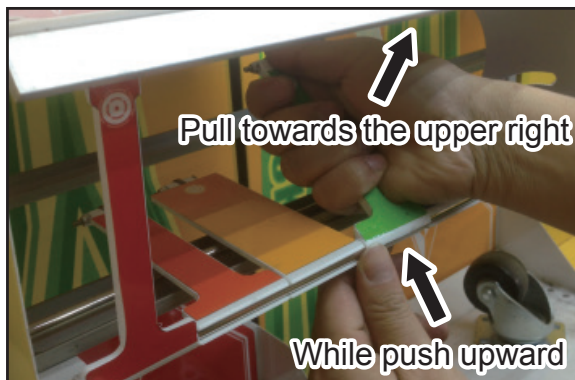
Adjust the inclination of target of prize box

The inclination of target is affected by the prize box. Adjust the inclination of prize box by both hands so as to adjust the inclination of target.



5.2.1.1 Replacement of target

1. Hold the target with the right hand and pull towards the upper right, while push the lower right corner of the target upward with the left thumb. Pull out the target.



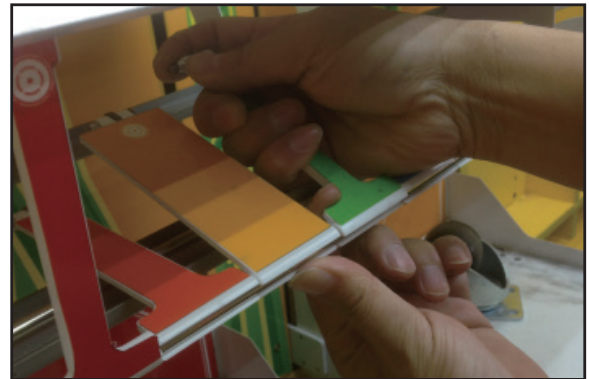
⚠ Caution

- The size and the order of targets may be changed as required by the stores. The accessories box houses 96 alternate targets, including three kinds of sizes, and there are 32 pieces for each size.

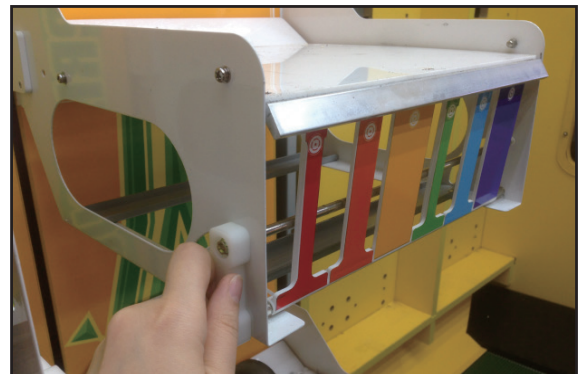
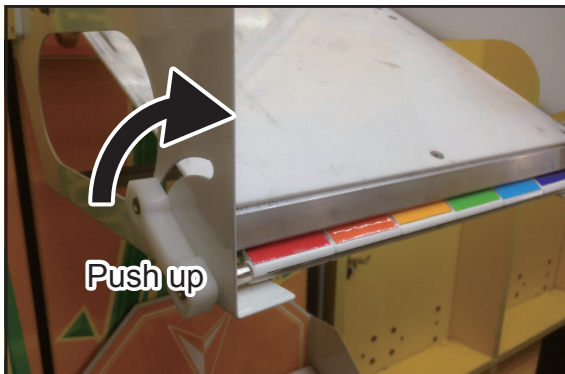


2. Replace with a new target and install in reverse order.

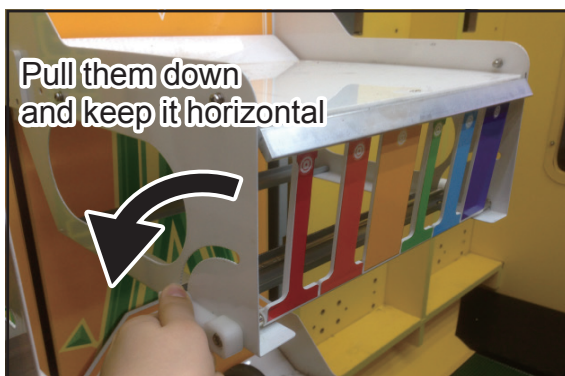
a. Hold the new target with the right hand and push it downward, while hook the lower right corner of the target with the left index finger and pull it downward, so that the target snaps into the metal cylinder.



b. After replacing the target, push the bullet recovery block upward, so that all targets stand.



c. After all targets stand, pull down and keep the bullet recovery block horizontal to complete the installation of targets.



Caution

- After installation of targets, pull down and keep the bullet recovery block horizontal.

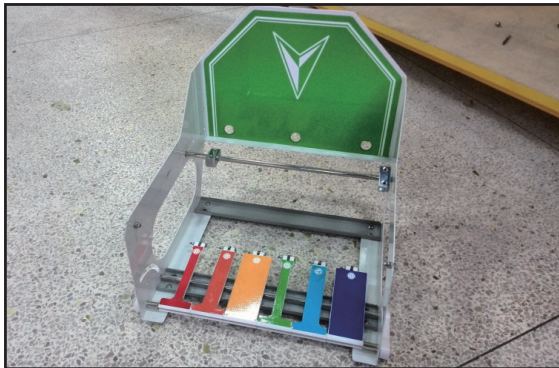
5.2.1.2 Replacement of prize box assembly

1. Remove the 4 screws using a Phillips screwdriver and remove the slider.
2. Remove the 6 screws with a Phillips screwdriver and remove the prize carrier.
Replace it with a new prize carrier and install in reverse order.



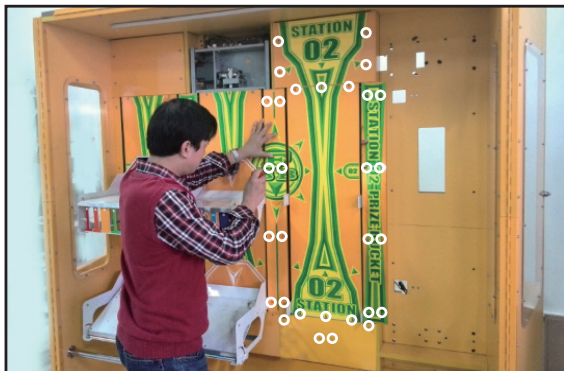
Caution

- To install the slide, mount the screws in the front 4 holes (upper left figure) to facilitate the dropping of prizes.



5.2.1.3 Replacement of prize carrier movement mechanism assembly (by 2 or more persons)

1. Repeat 5.2.1.2, and remove the prize box assembly.
2. Remove the 30 screws with a Phillips screwdriver. Remove the 5 pieces of decorative hardware.



3. Open the rear door. Pull out the motor cable. Pull out the terminal.
4. Remove the 14 screws with a Phillips screwdriver. Remove the prize carrier movement mechanism assembly.



5. Replace with a new prize carrier movement mechanism assembly and install in reverse order.
 - a. Pull out the terminal of new prize carrier movement mechanism assembly from the rear door, and then connect the wire.
 - b. Tighten the 14 screws of the prize carrier movement mechanism assembly with a Phillips screwdriver.



- c. Mount the middle decorative hardware with a Phillips screwdriver. Do not tighten.
- d. After move it up/down for five times smoothly, tighten the screws of decorative hardware (install the remaining 4 hardware in the same way).



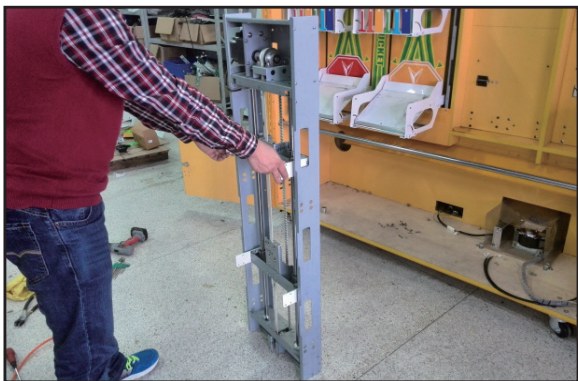


5.2.1.3.1 Replacement of the timing belt of prize carrier movement mechanism

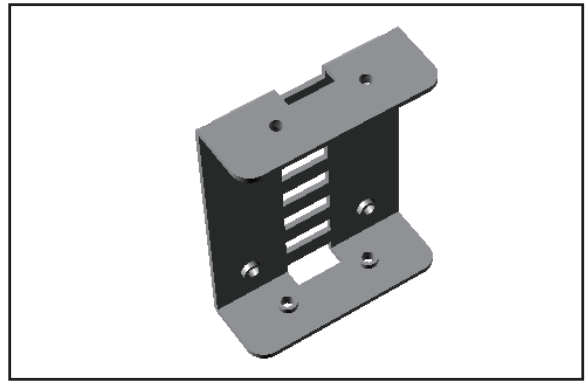
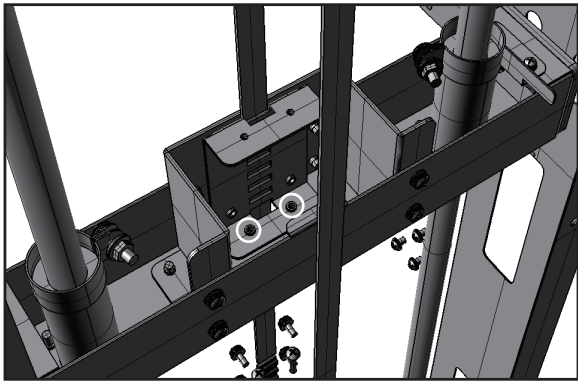
Caution

- Fix all screws of the prize carrier using intermediate strength screw glue.

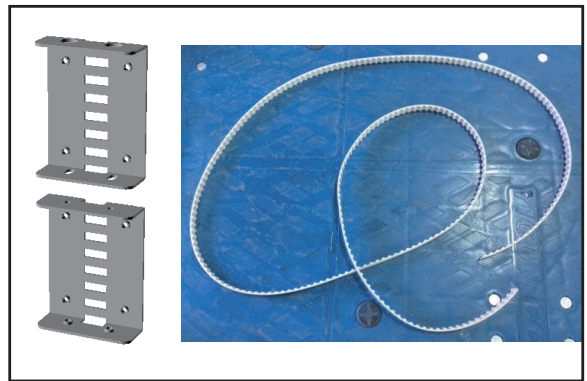
- 1.Repeat 5.2.1.2 to 5.2.1.3. Remove the prize carrier movement mechanism assembly.
- 2.Remove the 12 screws with a Phillips screwdriver to separate the timing belt from the upper/lower parts of the prize carrier.



3.Remove the 2 screws with a Phillips screwdriver. Remove the fasteners of the timing belt in the upper part of the prize carrier.

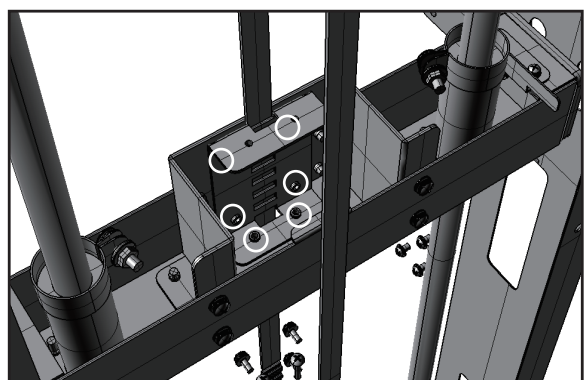
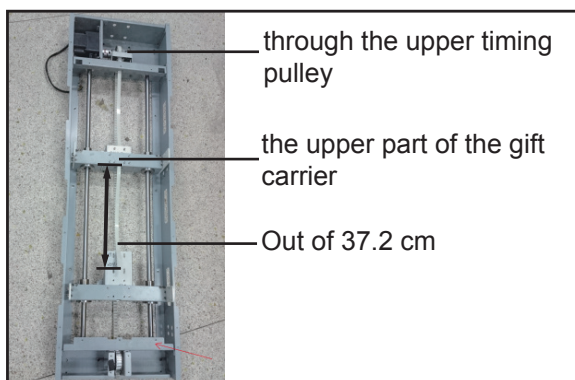


4.Remove the 2 screws with a Phillips screwdriver. Remove the 2 fasteners of the timing belt in the lower part of the prize carrier to disconnect the timing belt. Pull out the timing belt.

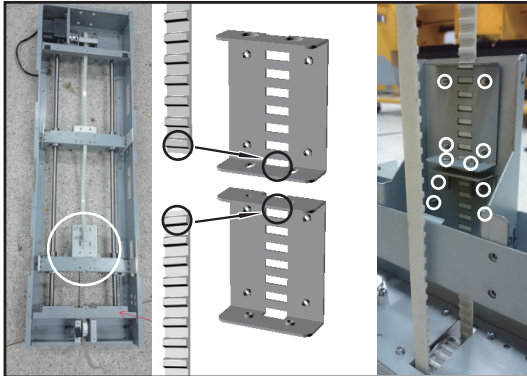


5.Replace with a new timing belt and install in reverse order.

a.Pass one end of the new timing belt through the upper timing pulley, and then through the upper part of the prize carrier for about 37.2cm. Tighten the 6 screws of fasteners of timing belt in the upper part of the prize carrier.



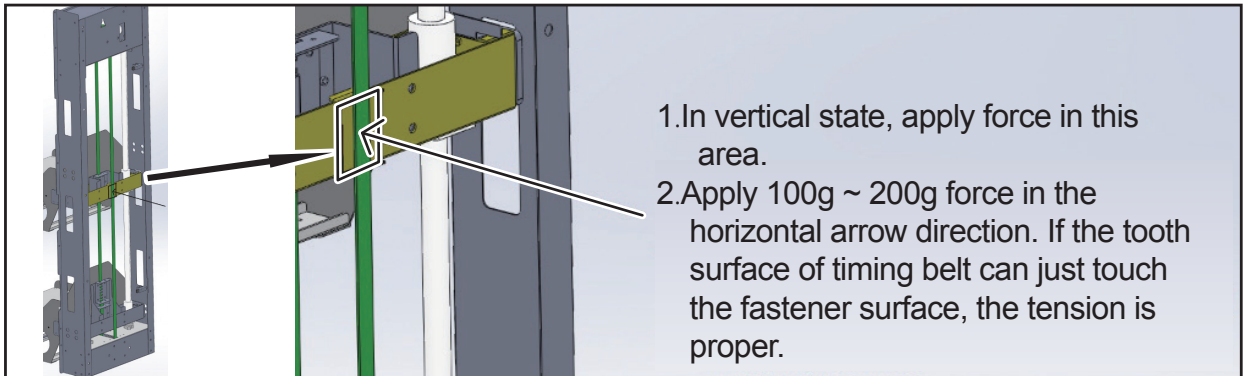
- b. Insert the first tooth at each end of the timing belt into the first hole at center of the two fasteners of timing belt in the lower part of the prize carrier. Tighten the 10 screws.



- c. Test the tension of timing belt after installation to achieve the best result.

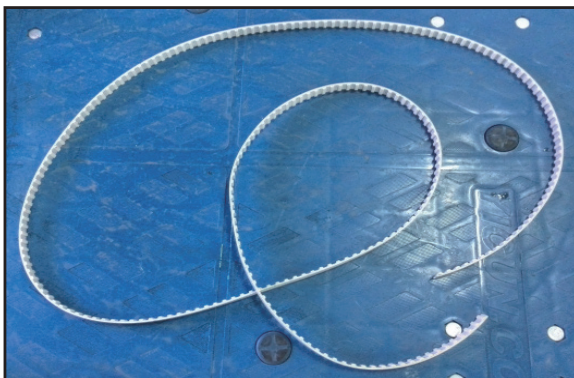
! Caution

- As the prize carrier movement mechanism is vertical, apply 100g ~ 200g force at the position of following pane. If the tooth surface of timing belt can just touch the fastener surface, the tension is proper.

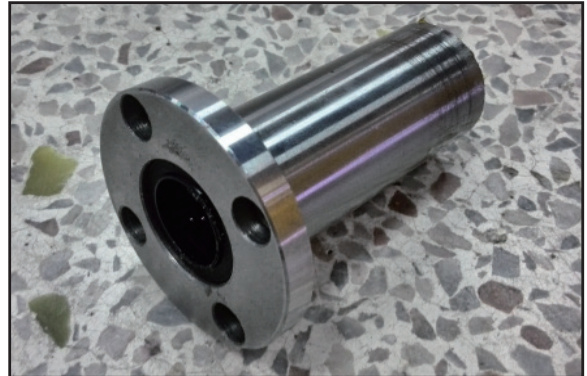
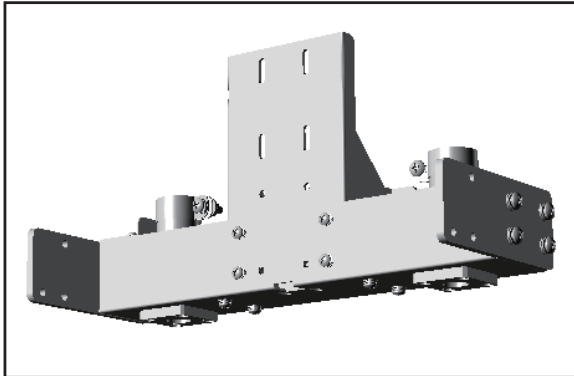


5.2.1.3.2 Replacement of bearing of gift carrier movement mechanism

1. Repeat 5.2.1.2 to 5.2.1.3. Remove the prize carrier movement mechanism assembly.
2. Remove the 14 screws with a Phillips screwdriver. Remove the fasteners under the prize carrier.

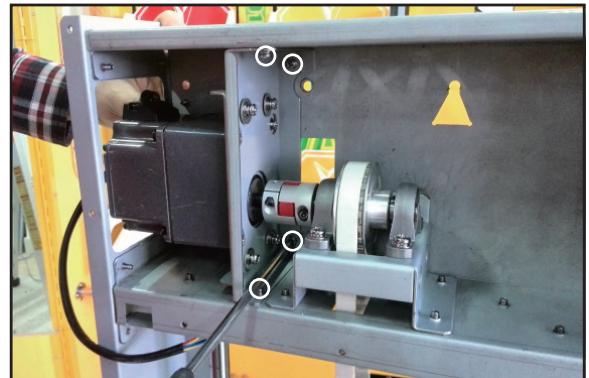


3. Slip out the lower part of the prize carrier under the rail. Remove the 4 screws with a hex screwdriver. Pull out the bearing and replace with a new one. Install in reverse order.

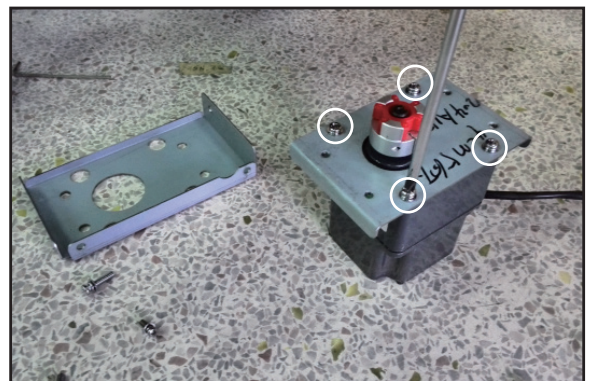


5.2.1.3.3 Replacement of gift carrier movement mechanism brushless motor and coupler

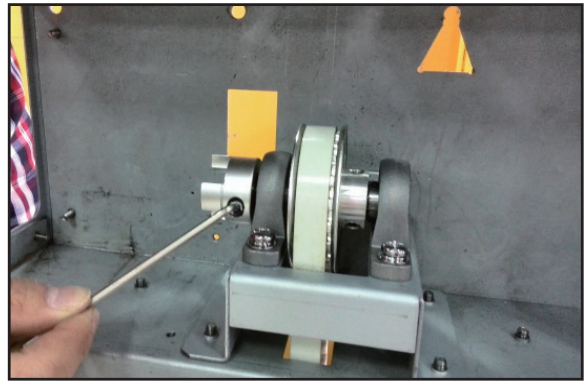
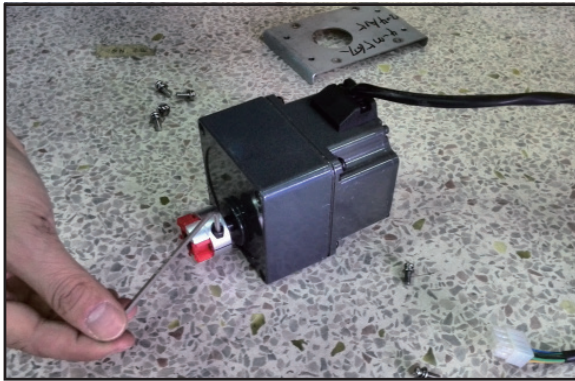
- 1.Repeat 5.2.1.2 to 5.2.1.3. Remove the prize carrier movement mechanism assembly.
- 2.Remove the 4 screws with a Phillips screwdriver. Remove the brushless motor assembly.



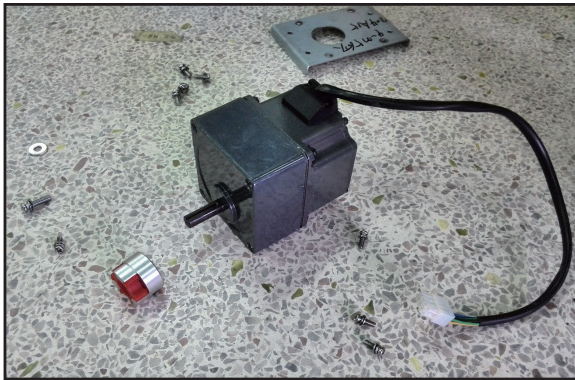
- 3.Remove the 4 screws with a Phillips screwdriver. Remove the fasteners.
- 4.Remove the 4 screws with a Phillips screwdriver. Remove the motor position adjusting frame.



5.Remove the screws with a hex screwdriver. Remove the upper half of coupler of the brushless motor. Remove the lower part of coupler of timing pulley.



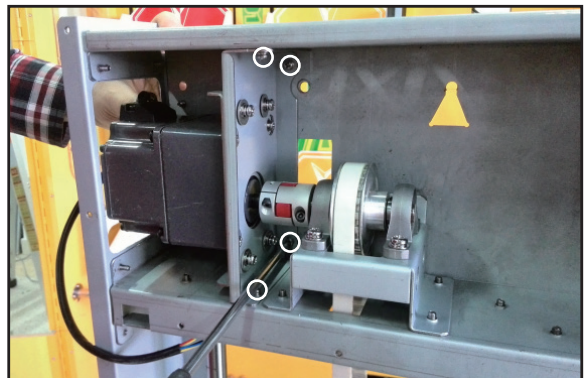
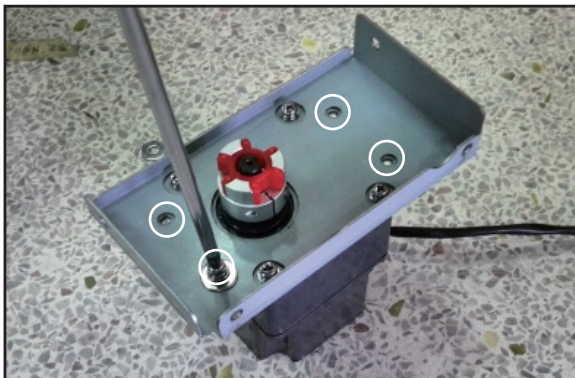
6.Replace with a new coupler or brushless motor. Install in reverse order.



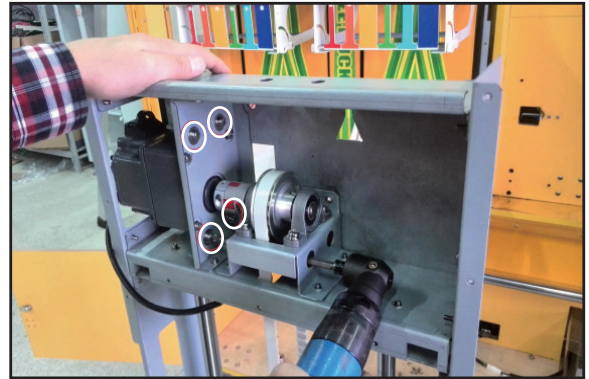
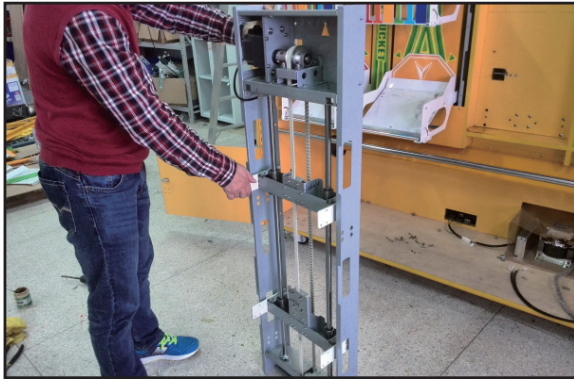
⚠ Caution

- To install in reverse order, mount the upper screws of brushless motor and do not fasten. After move it up/down 10 ten times, lock the motor.

a.Mount the screws. Do not fasten.

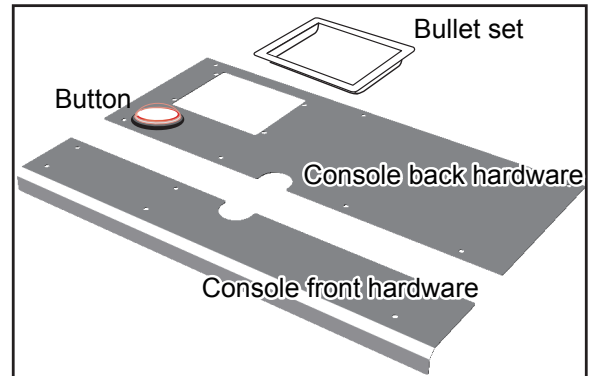
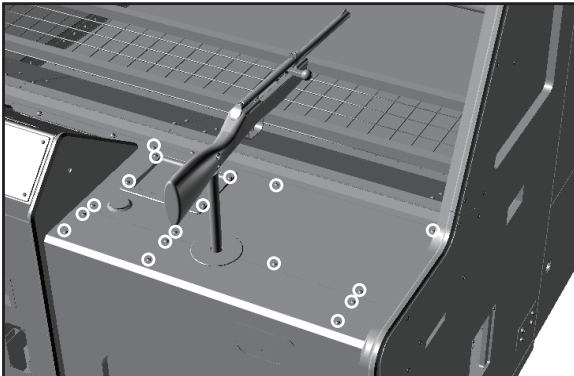


b. After moving it up/down 10 ten times, lock the motor.



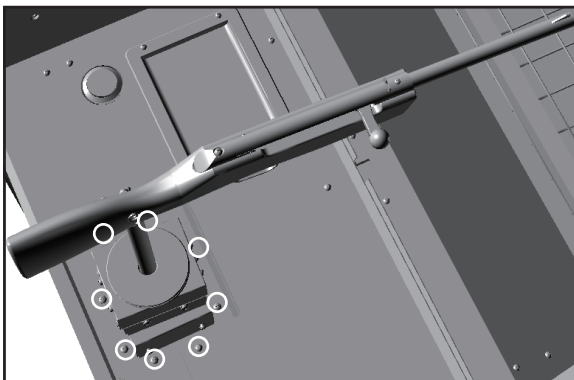
5.2.2 Disassembly of gun

1. Remove the 17 hex screws with a hex screwdriver. Remove the 2 fasteners.



2. Remove the 8 trio screws with a screwdriver. Remove the gun assembly.

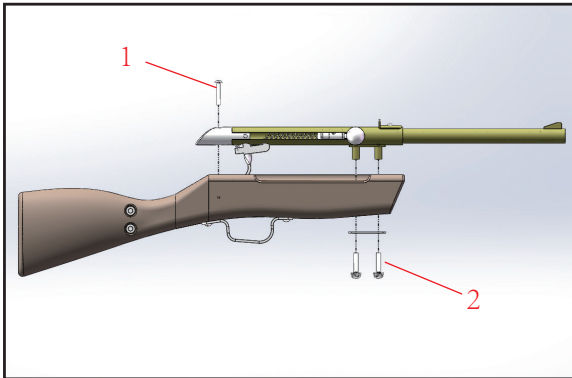
3. Remove the 2 hexagon socket head screws with a screwdriver. Remove the gun.



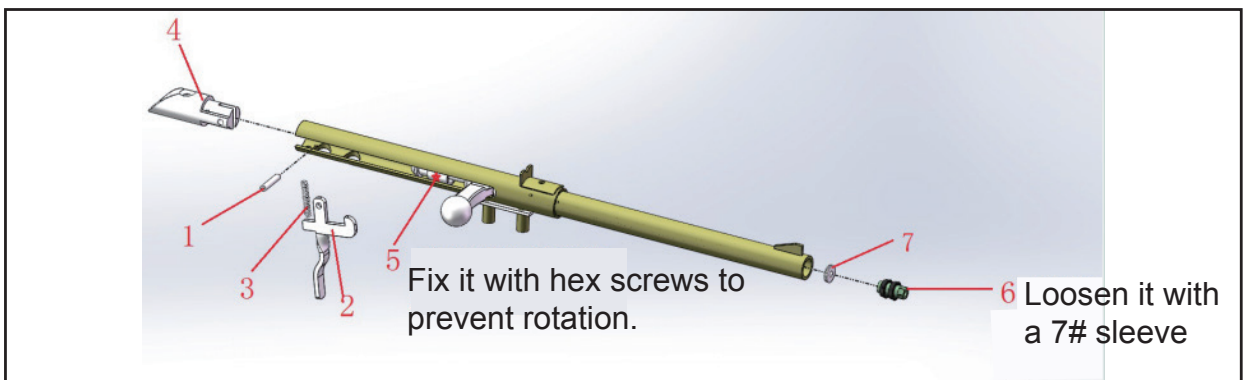
! Caution

- For disassembly of the gun holder, see section 6.3.1 Gun assembly from 1/4 to 2/4.

4.Remove the 3 screws with a screwdriver. Remove the gun holder.

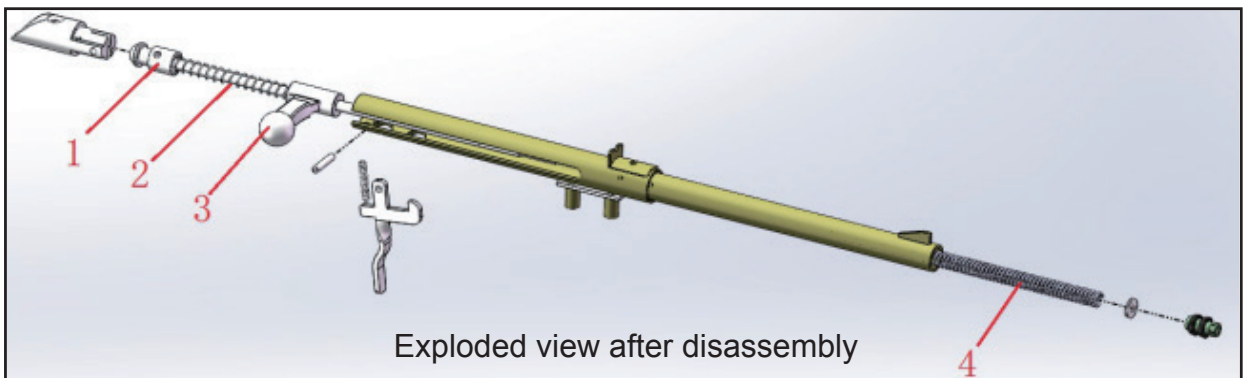


5.Disassemble the gun refer to the figure.

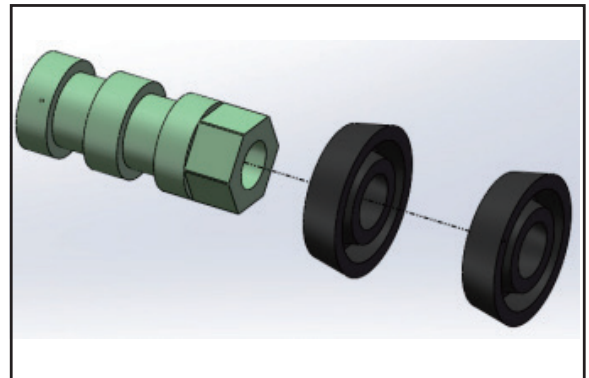
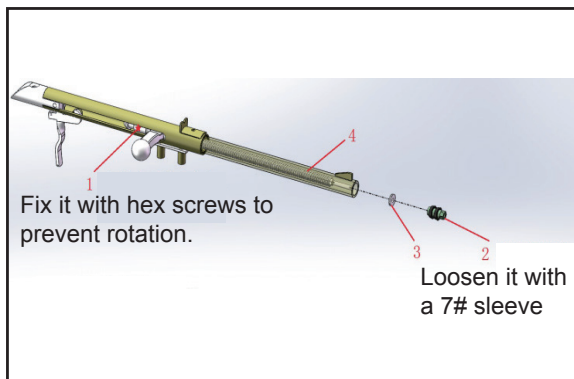


⚠ Caution

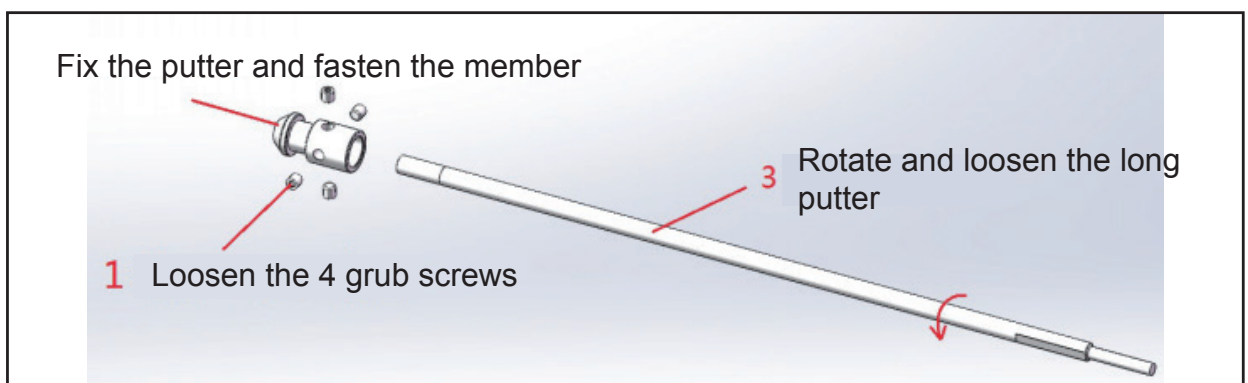
- For disassembly of the gun holder, see section 6.3.1 Gun assembly from 3/4 to 4/4.



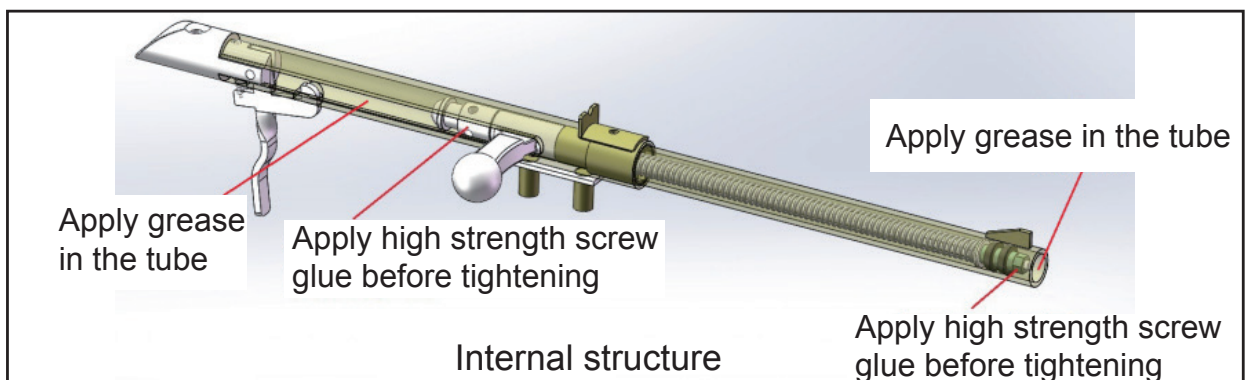
6. Seals and springs replacement procedures.



7. Long putter disassembly and replacement procedures.



8. Maintenance and care of gun (after shooting 2000 bullets. Apply No. 2 lubricant).

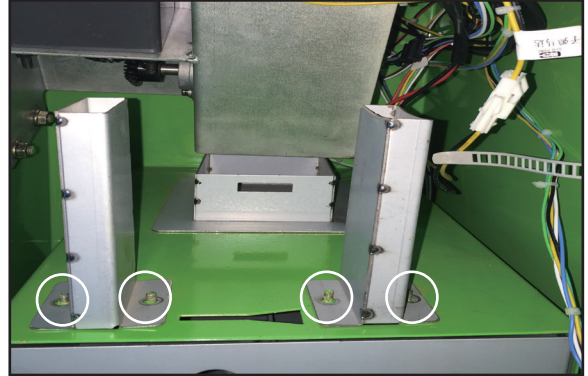


Caution

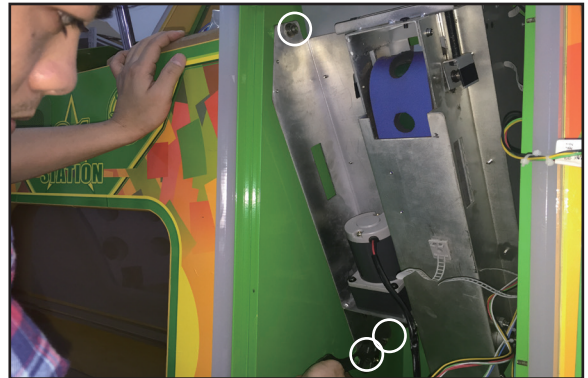
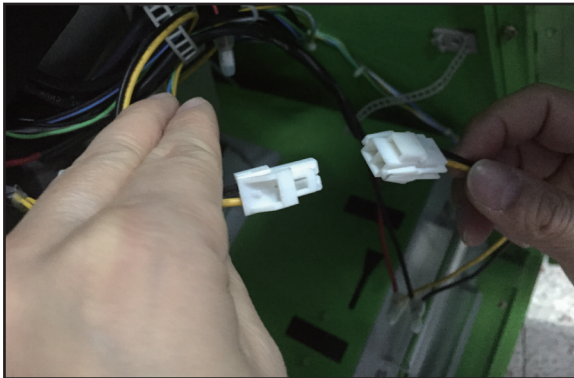
- When No.2 grease is filled, note that the grease can not be filled too much in order not to pollute the player's hands, clothes and gifts.
- For screws which are tightened using high strength screw glue and difficult to loosen, warm up using a heat gun, and then remove the screws.
Heat the high strength screw glue carefully to avoid damage to parts or burns to maintenance personnel.

5.2.3 Replacement of bullet dispenser conveyor belt

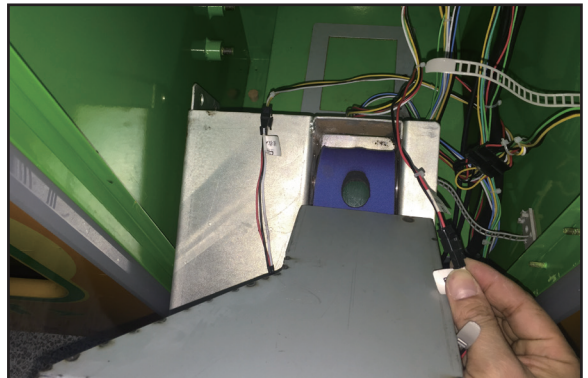
- 1.Unlock the door of the bullet dispenser with the key. Remove the 6 nuts with a hexagon socket. Remove the door.
- 2.Remove the 4 nuts with a hexagon socket. Remove the 2 coin slot; 1, Release the lock of the door of the bullet dispenser with the key. Remove the 6 nuts with a hexagon socket. Remove the door.



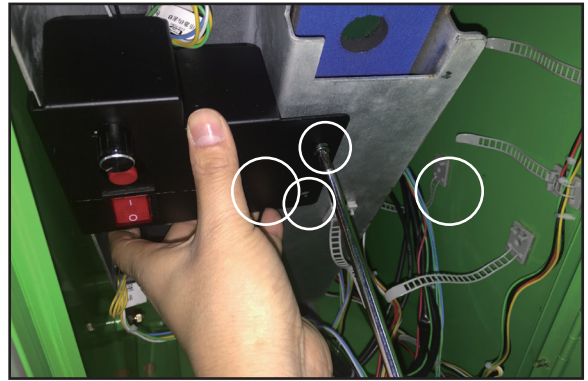
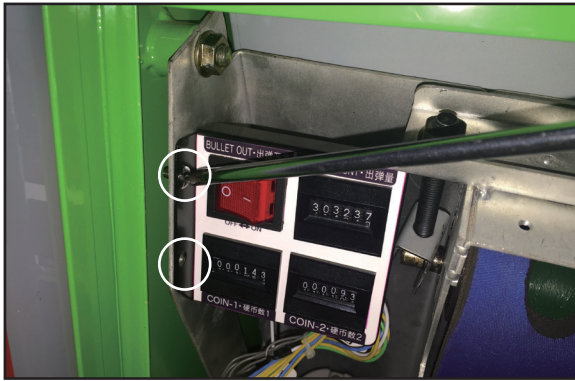
- 3.Pull out the terminal of bullet dispenser motor.
- 4.Remove the 3 nuts with a hexagonal socket.



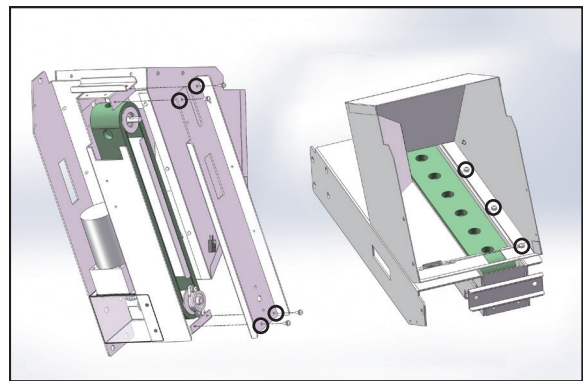
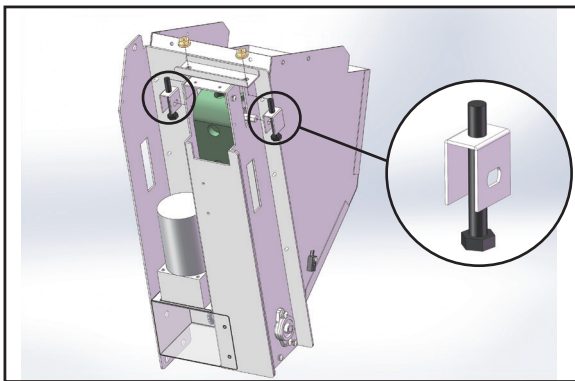
- 5.Remove the bullet bucket carefully.
- 6.Pull out the 2 infrared sensor terminals.



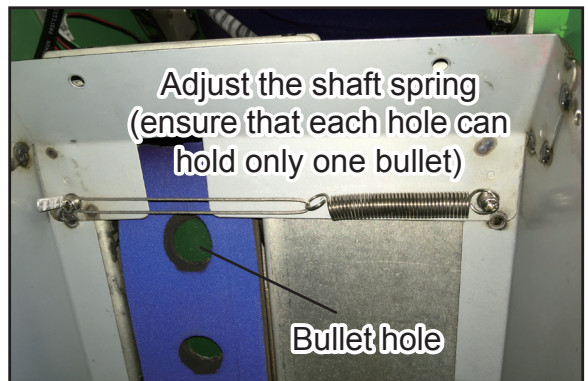
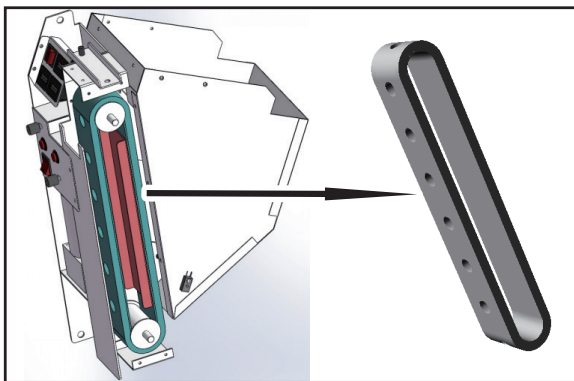
- 7.Remove the 2 nuts with a Phillips screwdriver. Remove the Stopwatch assembly.
 8.Remove the 2 nuts with a Phillips screwdriver. Remove the service panel assembly.



- 9.Remove the 2 hex nuts with a screwdriver. Remove left/right 2 fasteners.
 10.Remove the 7 screws with a Phillips screwdriver. Remove the fasteners.

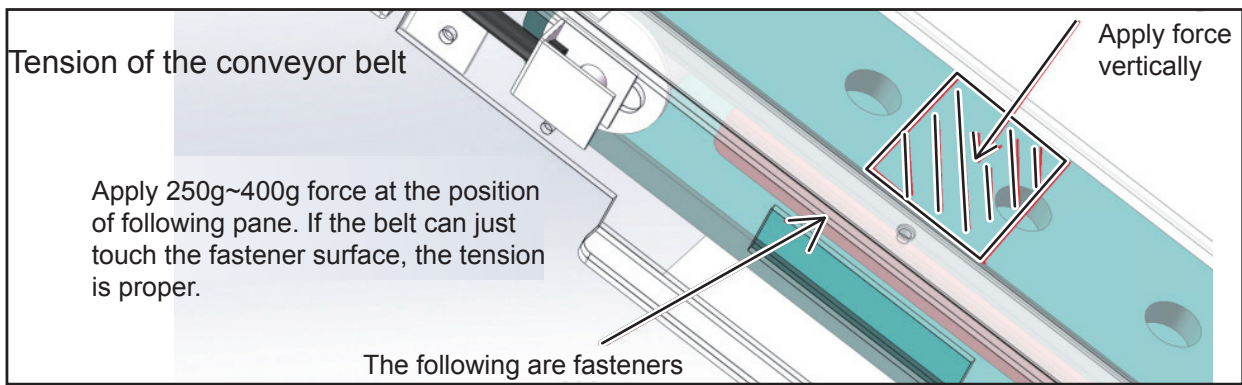


- 11.Remove the conveyor belt and replace with a new one. Install in reverse order.



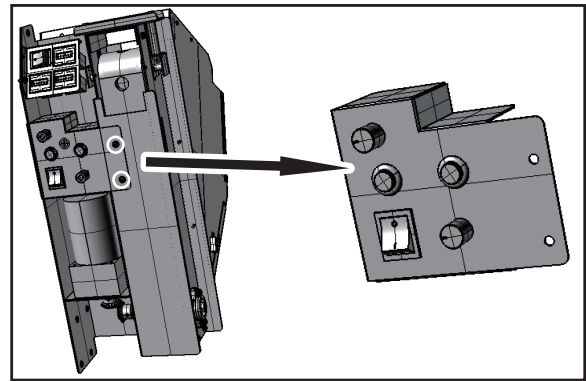
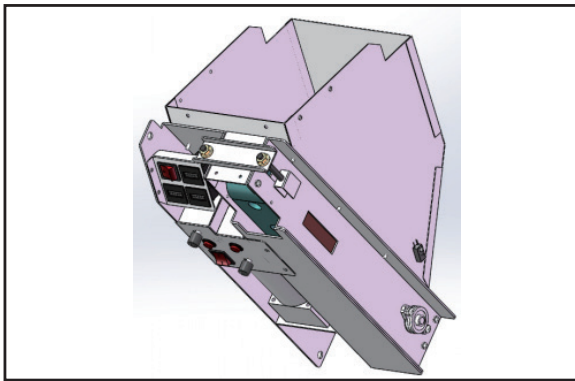
⚠ Caution

- After installation of the new conveyor belt, apply 250g~400g force at the position of following pane. If the belt can just touch the fastener surface, the tension is proper.

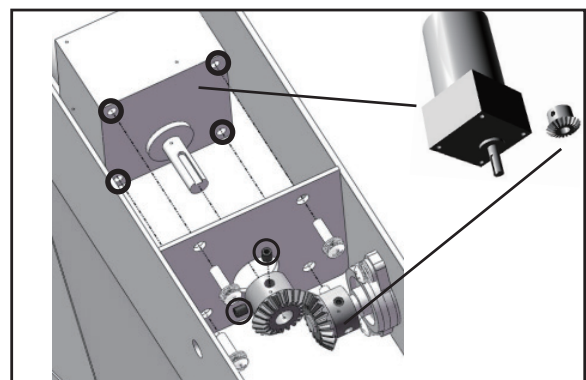
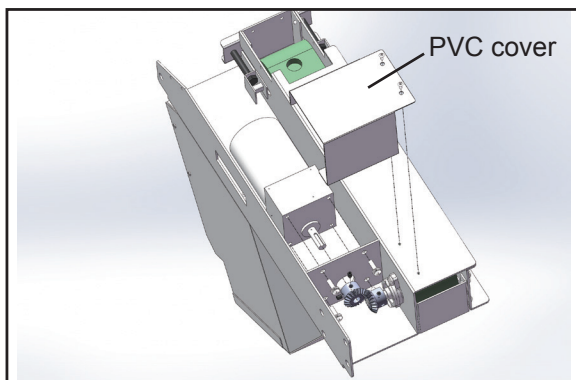


5.2.4 Replacement of bullet dispenser motor

- 1.Repeat Step 1-6 in section 5.2.3. Remove the bullet bucket.
- 2.Remove the 2 Phillips screws with a Phillips screwdriver. Remove the terminal block. Remove the service panel.



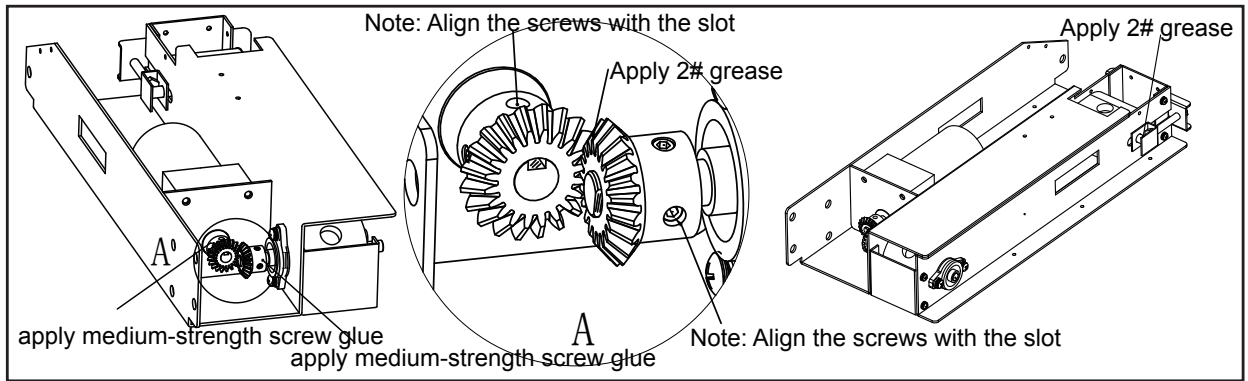
3. Remove the 2 Phillips screws with a Phillips screwdriver. Remove the cover. Remove the 2 hex screws with a Phillips screwdriver. Remove the bevel gear. Remove the 4 Phillips screws with a Phillips screwdriver. Remove the terminals. Remove the DC motor.



- 4.Replace with a new motor. Install in reverse order.

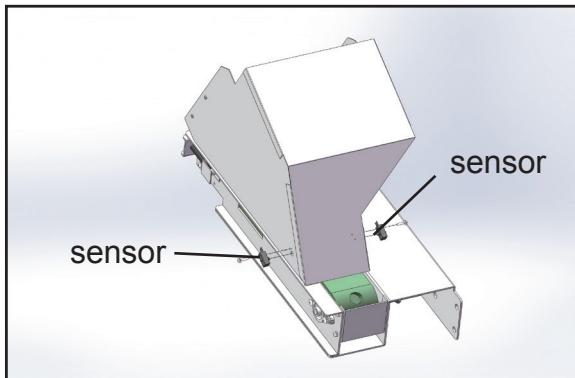
Caution

- After installation in reverse order, apply medium-strength screw glue on the hex screws; apply 2# grease on the bevel gear every 2 months



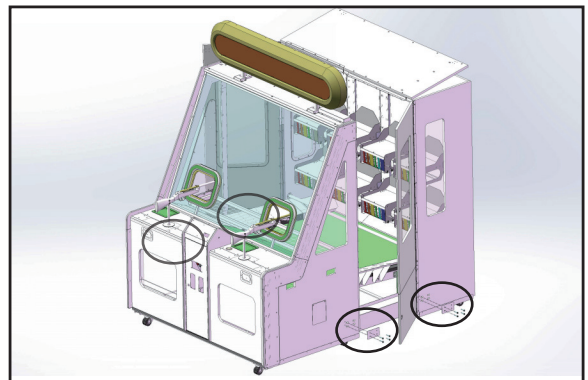
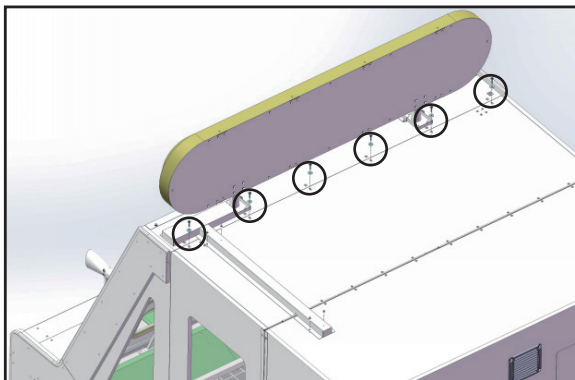
5.2.5 Replacement of bullet bucket sensor in the bullet dispenser

- 1.Repeat Step 1-6 in section 5.2.3. Remove the bullet bucket.
- 2.Remove the 2 Phillips screws with a Phillips screwdriver. Replace with a new sensor and install in reverse order.



5.2.6 Replacement of conveyor motor

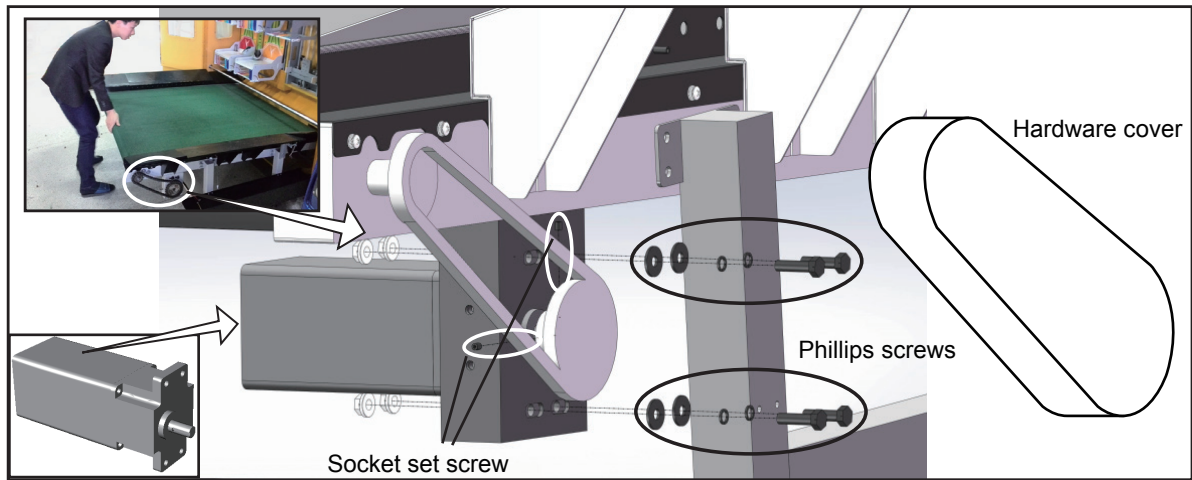
- 1.Remove the 6 trio screws with a Phillips screwdriver. Open the top plate.
- 2.Unlock the left/right 4 doors with the key. Remove left/right total 16 trio screws with a Phillips screwdriver. Remove the 4 frame connecting iron.



3.Pull out the front frame, and then pull out the conveyor.

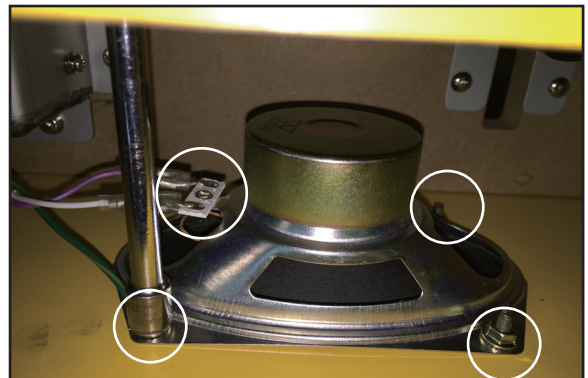


4.Remove the 2 hex grub screws with a hex screwdriver. Remove the gear.
Remove the 4 Phillips screws with a Phillips screwdriver. Remove the terminal.
Remove the motor. Replace with a new motor and install in reverse order.



5.2.7 Replace the speaker

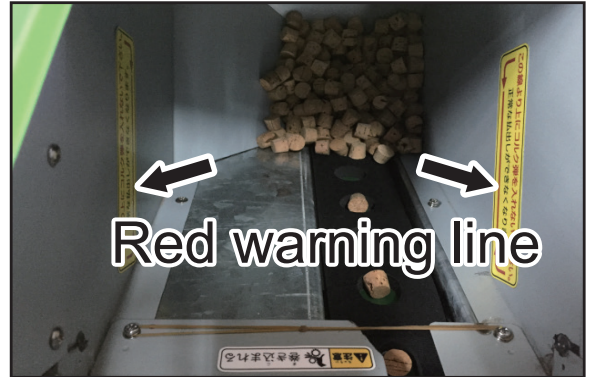
1.Remove the 6 hex screws with a hex screwdriver. Remove the 2 fasteners.
2.Remove the 4 nuts fixing the speaker with a hex sleeve. Remove the terminal.
Replace the speaker with a new one and install in reverse order.



5.2.8 Fill the bullet dispenser with bullets and recycle

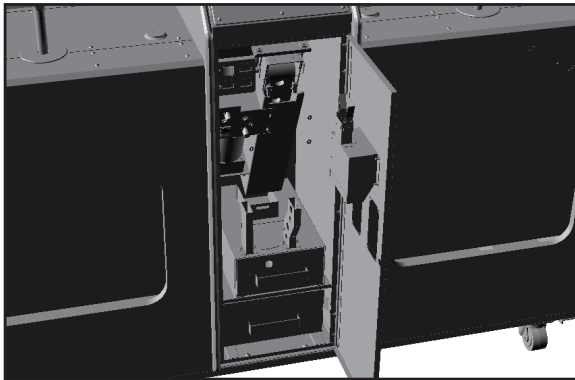
1.Add bullets

Unlock the door of bullet box with the key. Fill the bullet box with 2,000 bullets, but do not exceed the red warning line.



2.Recycle of bullets

Unlock the door of bullet box with the key. Pull out the bullet recycling bin.



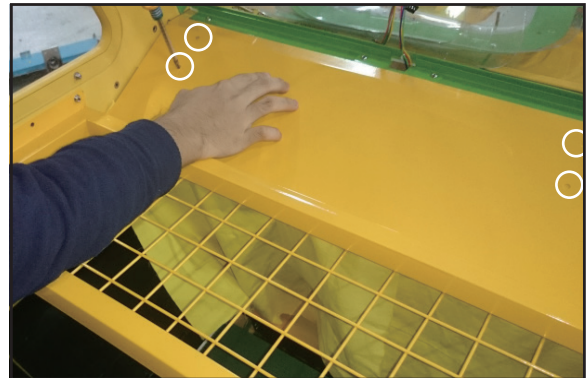
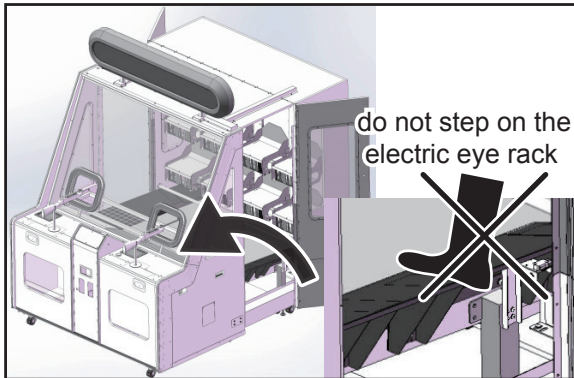
Caution

- When the bullet recycling bin cannot be pushed back, clean up the remaining bullets inside, and then push it back.

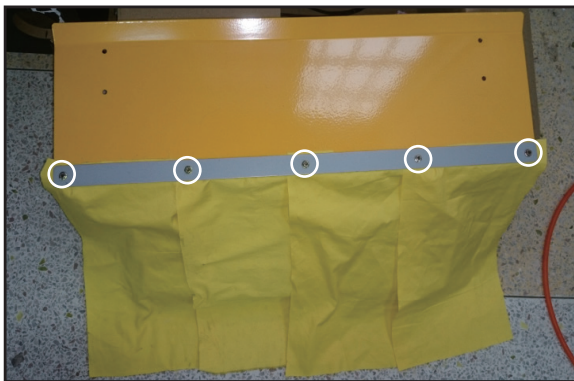


5.2.9 Replacement of bullet dispenser cloth

- 1.Unlock the side door of bullet box with the key. Climb the prize conveyor across the electric eye rack (do not step on the electric eye rack).
- 2.Remove the 4 Phillips screws with a Phillips screwdriver. Remove the fasteners and the block cloth.



- 3.Remove the 5 nuts with a hexagon socket. Remove the block cloth. Replace with a new block cloth and install in reverse order.

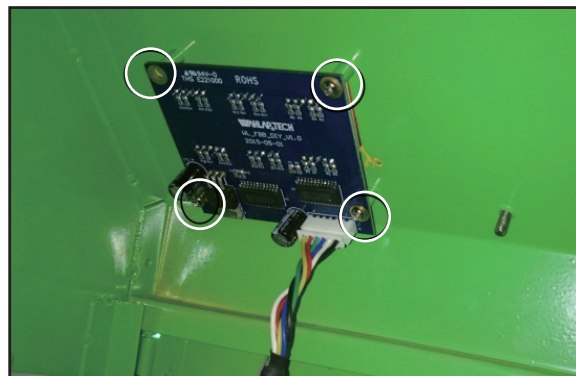
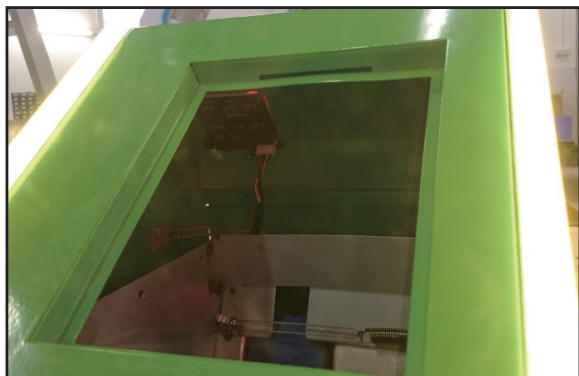


5.2.10 Replacement of character “ 8 ” display panel of bullet dispenser

- 1.Unlock the door of bullet box with the key. Remove the 4 Phillips screws with a Phillips screwdriver. Remove the 2 block boards.



- Remove the 4 Phillips screws with a Phillips screwdriver. Remove the terminal. Remove the character "8" display panel. Replace with a new one and install in reverse order.



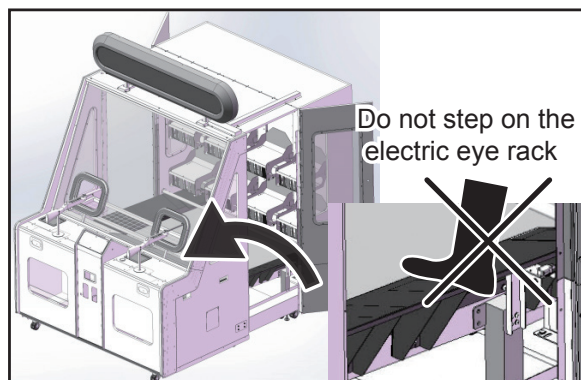
5.2.11 Replacement of prize outlet sensor

- Remove the 6 hex screws with a hex screwdriver. Remove the front fasteners of the console.
- Remove the 2 hex screws with a hex screwdriver. Replace with a new sensor and install in reverse order.



5.2.12 Replacement of prize outlet acrylic

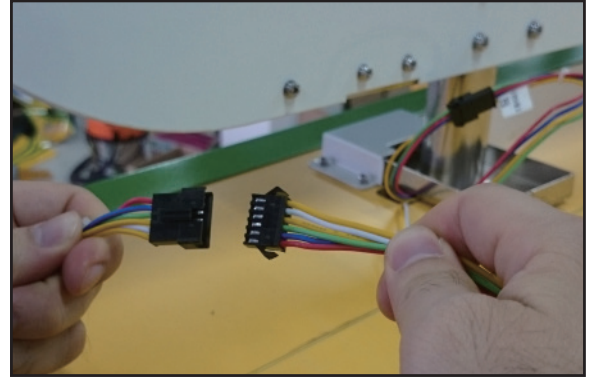
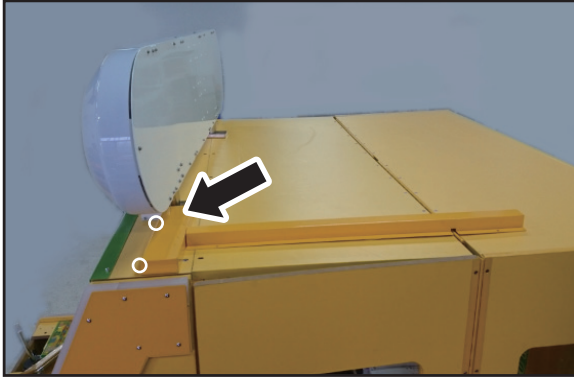
- Unlock the side door of bullet box with the key. Climb the prize conveyor across the electric eye rack (do not step on the electric eye rack).
- Turn the yellow block cloth. Remove the 3 hex nuts with a Phillips screwdriver. Remove the prize outlet acrylic. Replace with new prize outlet acrylic. Install in reverse order.



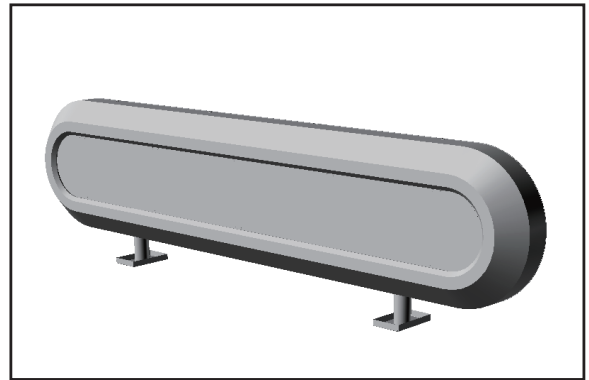
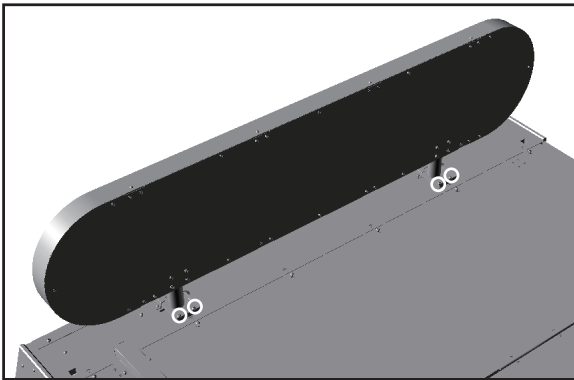
5.2.13 Replacement of LEDs

5.2.13.1 Replacement of light box LED

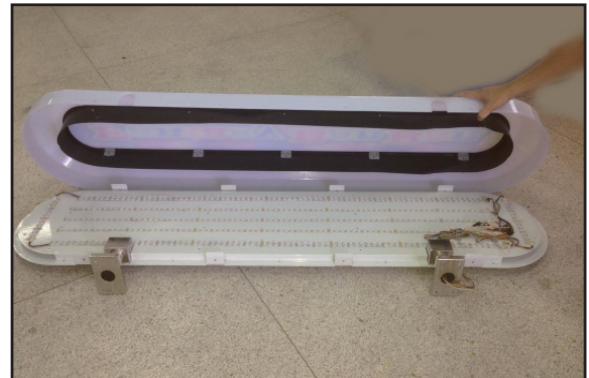
1. Remove the 2 Phillips screws with a Phillips screwdriver. Remove the fasteners. Remove the terminal.



2. Remove the 4 Phillips screws with a Phillips screwdriver. Remove the light box.

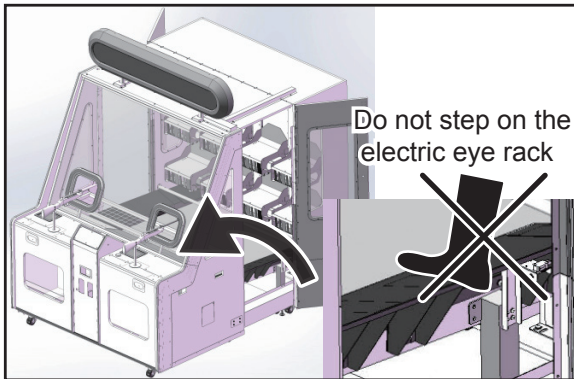


3. Remove the 8 Phillips screws with a Phillips screwdriver. Remove the acrylic light shade.
4. Remove the terminal. Remove the LED. Replace with a new LED and install in reverse order.

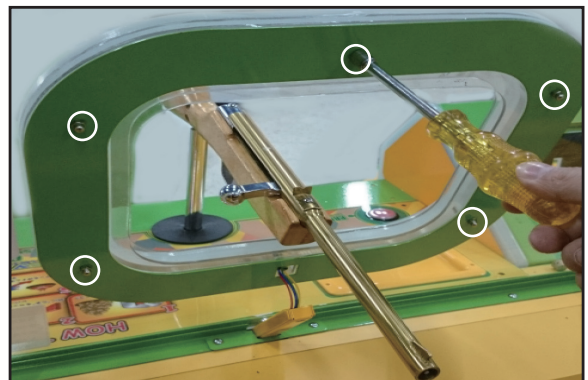


5.2.13.2 Replacement of gun sight LED

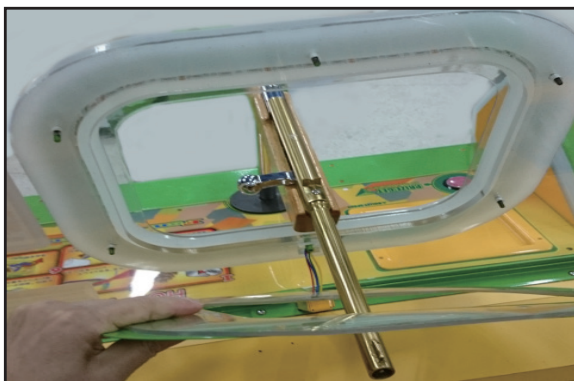
- 1.Unlock the side door of bullet box with the key. Climb the prize conveyor across the electric eye rack (do not step on the electric eye rack).
- 2.Remove the trio screw with a Phillips screwdriver.



- 3.Unplug the terminal. Remove the 5 cap nuts with a hexagon socket.

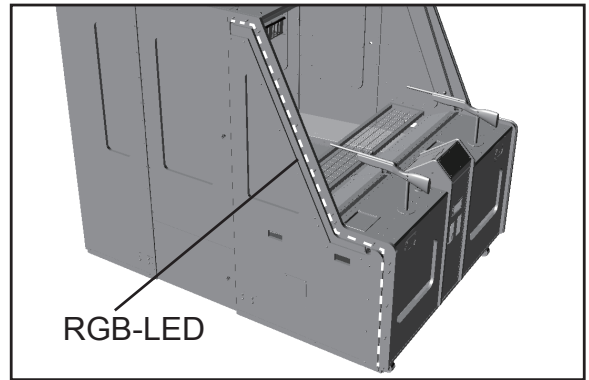
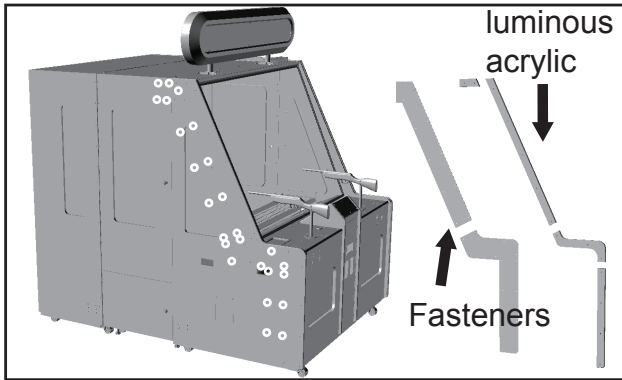


- 4.Remove the gun sight fastener cement. Remove the gun sight luminous acrylic in front of the machine. Remove the LED strip and replace with a new one. Install in reverse order.



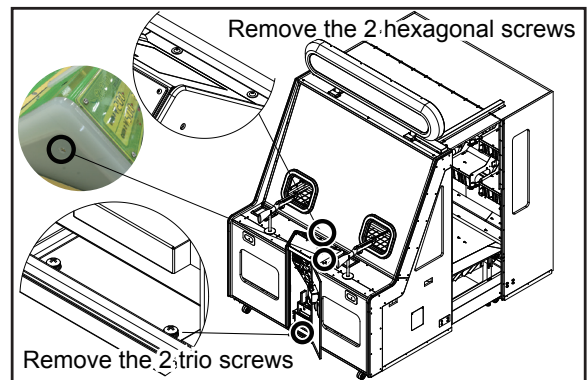
5.2.13.3 Replacement of side LED

1. Remove 27 hex screws with a hex screwdriver. Remove the 2 block boards and the 4 luminous acrylic.
2. Remove the terminal. Remove the LED and replace with a new one. Install in reverse order.

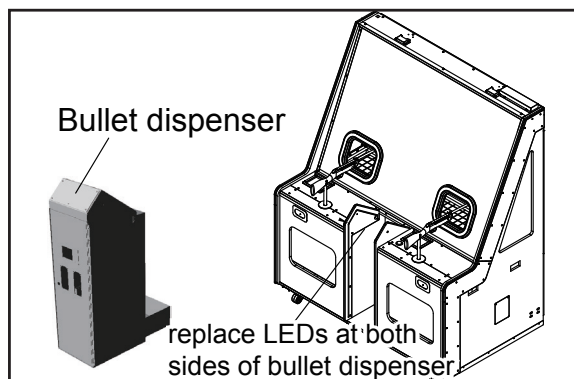


5.2.13.4 Replace the LED at both sides of the bullet vending machine

1. Open the front door of bullet vending machine. Remove the wiring at both sides at top inside the bullet vending machine.
2. Remove the 2 hexagonal screws with a hex screwdriver, and then remove the two Phillips screws with a Phillips screwdriver. Get out the bullet vending machine.

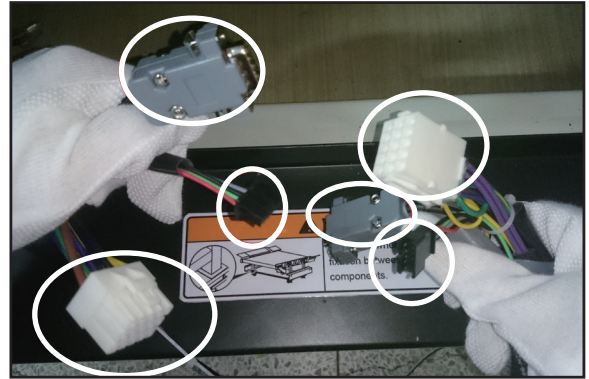
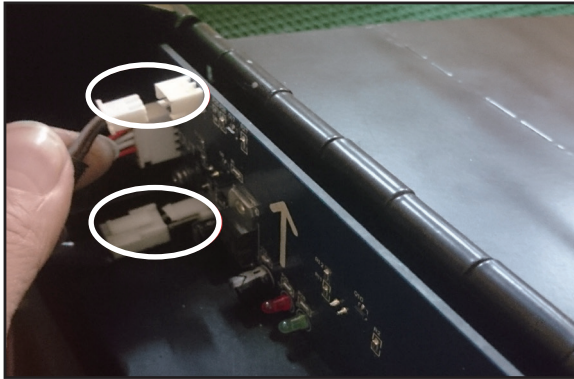


3. Remove the terminal. Remove the LED and replace with a new one. Install in reverse order.

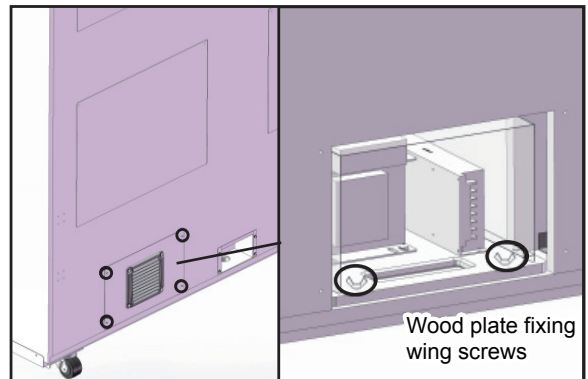
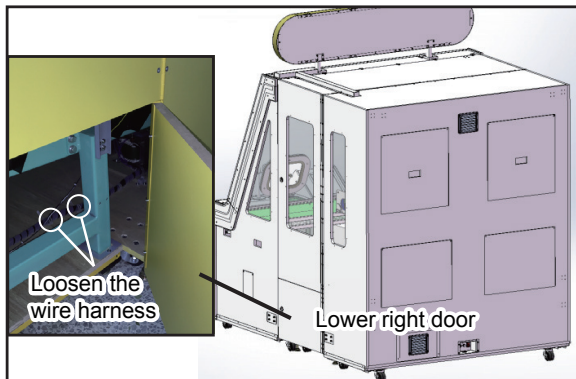


5.2.14 Replacement of transformer

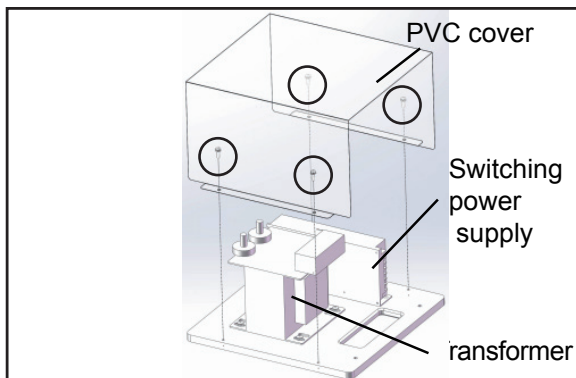
1. Open the right door of the machine. Lift the hardware of electric eye rack. Pull out the terminals.
2. Open the lower right door. Pull out the terminals.



3. Loosen the wire harness. Remove the bottom fixing wiring.
4. Remove the four screws with a Phillips screwdriver from right behind the machine. Pull out the terminals. Remove the fan, and then remove the two butterfly screws. Pull out the transformer plate assembly.



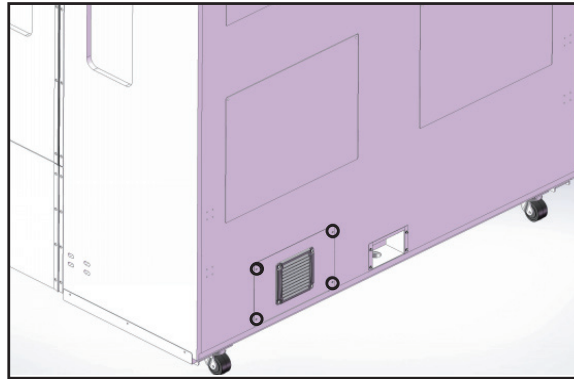
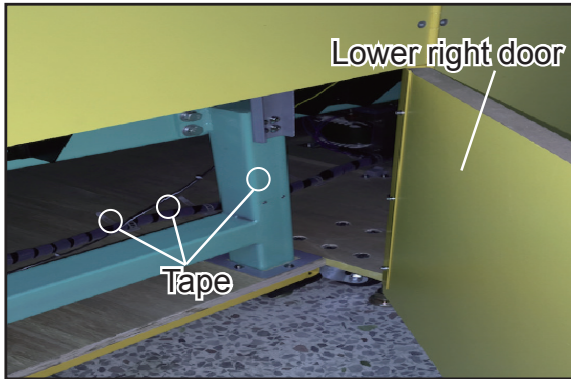
5. Remove the 4 screws with a Phillips screwdriver. Remove the PVC cover. Pull out the terminal. Replace with a new transformer and install in reverse order.



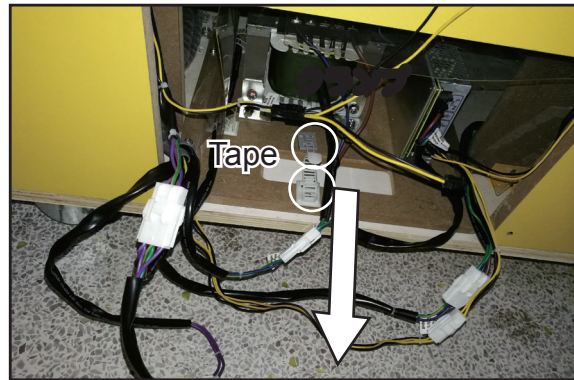
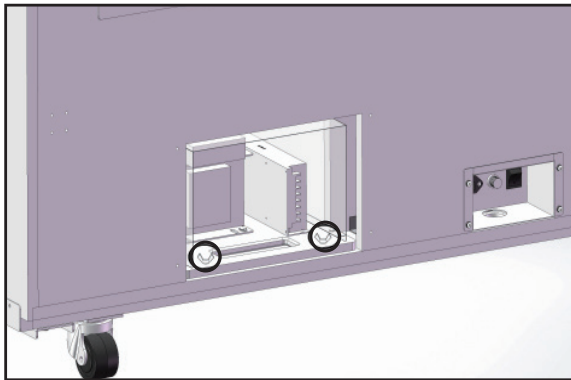
5.2.15 Replace the fuse

■ It must be operated by the technicians.

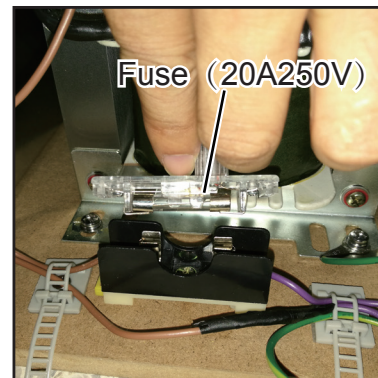
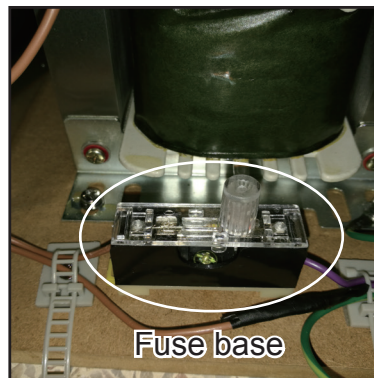
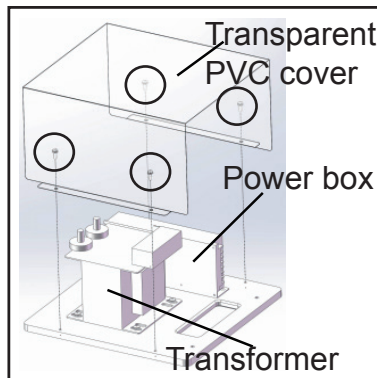
1. Open the door on lower right side and untie the tapes that are used to fix the wiring.
2. Remove 4 screws and terminals that are used to fix the maintenance door on lower left side on the back of the machine.



3. Remove 2 screws that are used to fix the wood plate.
4. Untie the tapes that are used to fix the wiring and pull the wood plate outward.

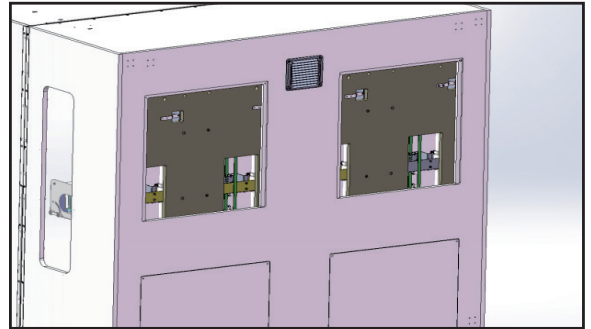
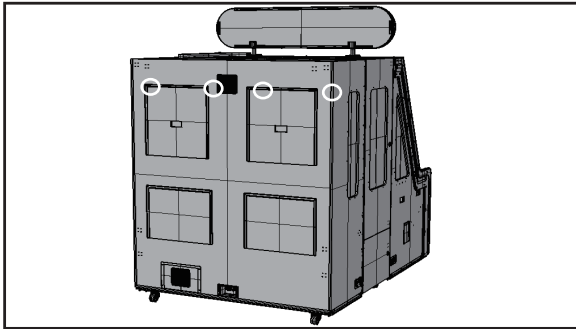


5. Remove the screws that are used to fix the transparent PVC cover.
6. The fuse base is located behind the transformer.
7. Hold down the handle on the upside of the fuse base and pull it upward to replace the fuse (20A250V).

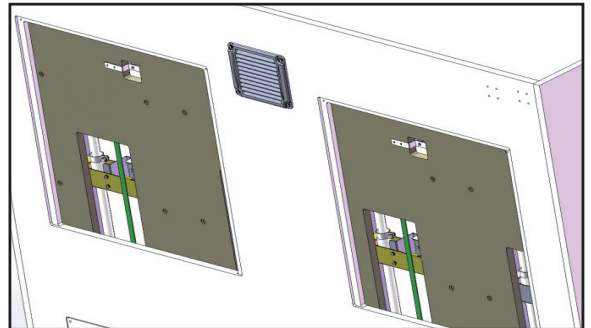
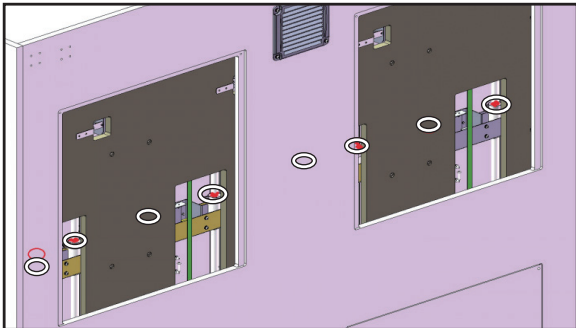


5.2.16 Apply grease during maintenance of bearing

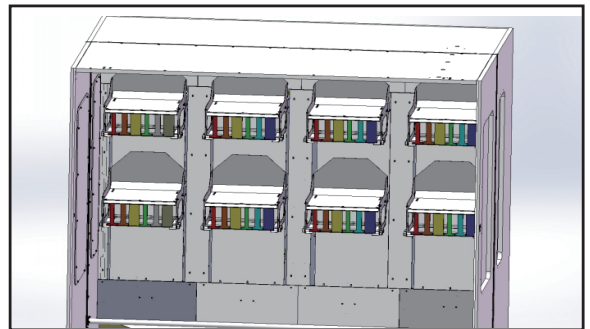
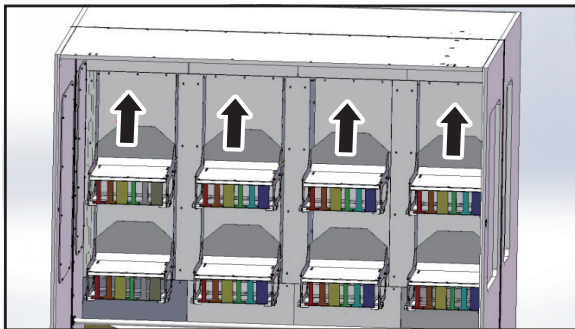
1. Remove the 4 screws with a screwdriver. Remove the rear top 2 doors.



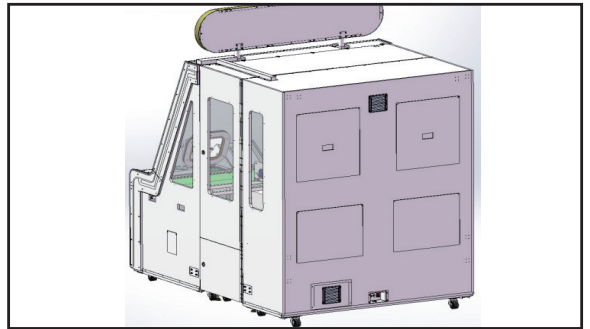
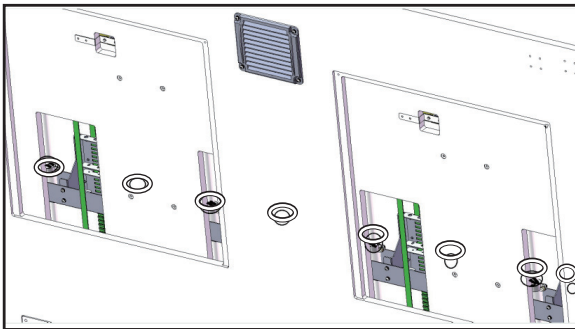
2. Add 2# grease to the 8 linear bearing sleeves on the upper horizontal prize carrier.



3. Move the 4 vertical prize carriers to the upmost and fix.



4. Add 2# grease to the 8 linear bearing sleeves on the lower horizontal prize carrier.
Install in the reverse order after adding grease.



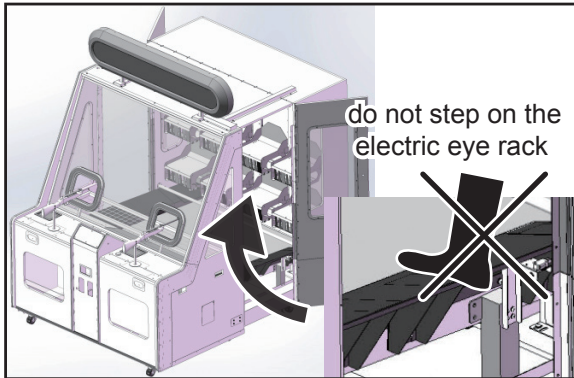
Caution

- apply 2# grease on the 16 bearing sleeves every 2 months.

5.2.17 Add prizes

Max size of prize: 280(W)×280(D)×280(H)(mm) less than 1.0kg

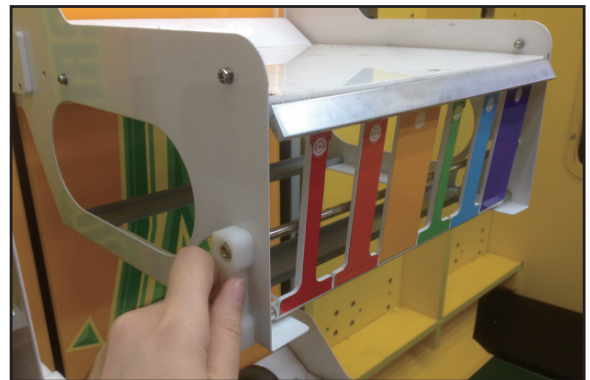
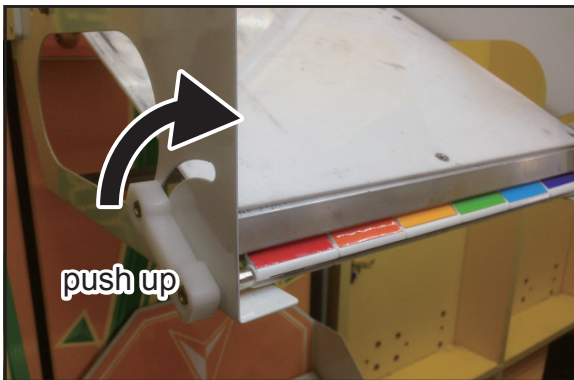
1.Unlock the side door of bullet box with the key. Climb the prize conveyor across the electric eye rack (do not step on the electric eye rack).



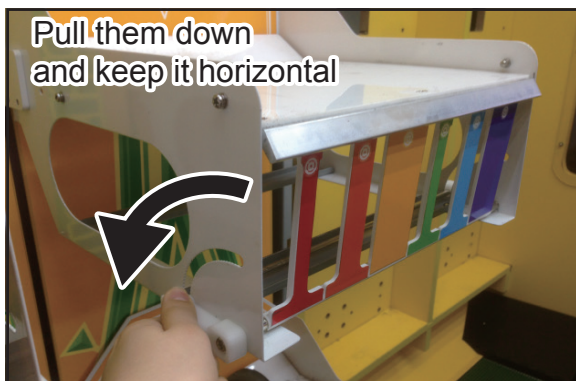
! Caution

- After opening the side door, the machine will give error E22 or E23. The "Player 1" or the "Player 2" key becomes invalid. The conveyor belt and the prize carrier stop. After adding prizes, close the doors at both sides, all functions restore normal.

2.Push the bullet recovery block upward, so that all targets stand.



3.After all targets stand, pull down and keep the bullet recovery block horizontal to add prizes.



! Caution

- To add prizes, keep all targets stand. Pull down and keep the bullet recovery block horizontal (required). Then add prizes.
- As error is give after closing the door, handle refer to section 4.7.13 and 4.9.

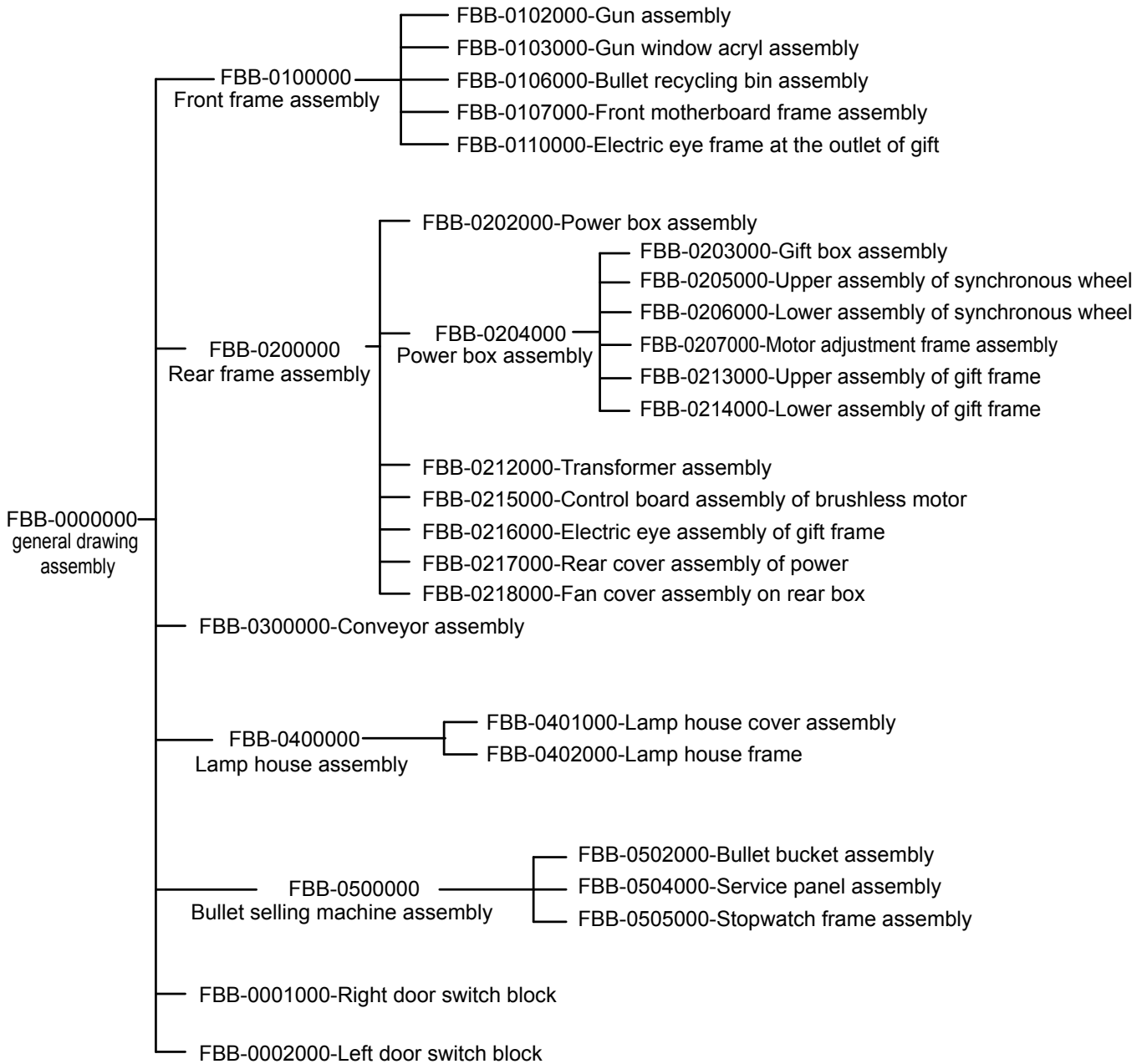
5.3 Troubleshooting

	Fault	Confirm · Measure	Reference page
1	The machine will not start (no response)	<ul style="list-style-type: none"> * Check the power switch (service panel/power box) * Make sure the power line is plugged * Check/replace fuse * Check if the joint of machine is connected firmly * Check the power switch/transformer * Confirm the circuit board is connected 	P26 P2 P29 · 79 P18 P78 P21
2	No sound	<ul style="list-style-type: none"> * Check the Sound key on service panel * Check the connection of horn 	P29 P71
3	Check the connection of horn	<ul style="list-style-type: none"> * Check if the joint of machine is connected firmly * Check the action of prize rack motor/sensor * Check the installation of prize rack motor/sensor*Refill the lubricant 	P18 P32 P62 · 80
4	Coins cannot be inserted into the collector	<ul style="list-style-type: none"> * Check the action of coin collector lock (Can coins be inserted in Test mode?) * Check the coin collector 	P32 P42
5	Bullets will not be shot after inserting coins	<ul style="list-style-type: none"> * Check the setting * Check the action of coin collector lock (Can coins be inserted in Test mode?) * Check the coin collector 	P35 P32 P42
6	Bullets fell onto prize outlet	<ul style="list-style-type: none"> * Check recycling of bullets * Check bullet block cloth 	P21 P73
7	Gun action is not normal	<ul style="list-style-type: none"> * Check the gun * Add the lubricant to gun 	P64 P66
8	After pressing the key on the console, the prize rack does not turn	<ul style="list-style-type: none"> * Related to prize outlet * Check the Acrylic sensor at prize outlet * Check console key 	P28 P74 · 50 P31
9	Conveyor belt stopped before any prize is	<ul style="list-style-type: none"> * Related to prize outlet * Check the Acrylic sensor at prize outlet 	P28 P74 · 50
10	Falling direction of prize box target wrong	<ul style="list-style-type: none"> * Adjust the angle of prize box 	P55
11	Music of the prize not stop	<ul style="list-style-type: none"> * Check the infrared prize detection board 	P53
12	To remove all bullets in the	<ul style="list-style-type: none"> * About bullet shooting switch 	P29
13	No bullet during operation	<ul style="list-style-type: none"> * Add bullets * About errors 	P26 · 71 P40
14	Want to enter the Set mode as error is reported	<ul style="list-style-type: none"> * As E6~E21 error is given, press the power switch; if the error is given again, press Set key to enter the Set mode. 	P34
15	Want to enter the Test mode as error is reported	<ul style="list-style-type: none"> * After any error is given, press the "Select" key and press the power switch to enter the Test mode 	P30

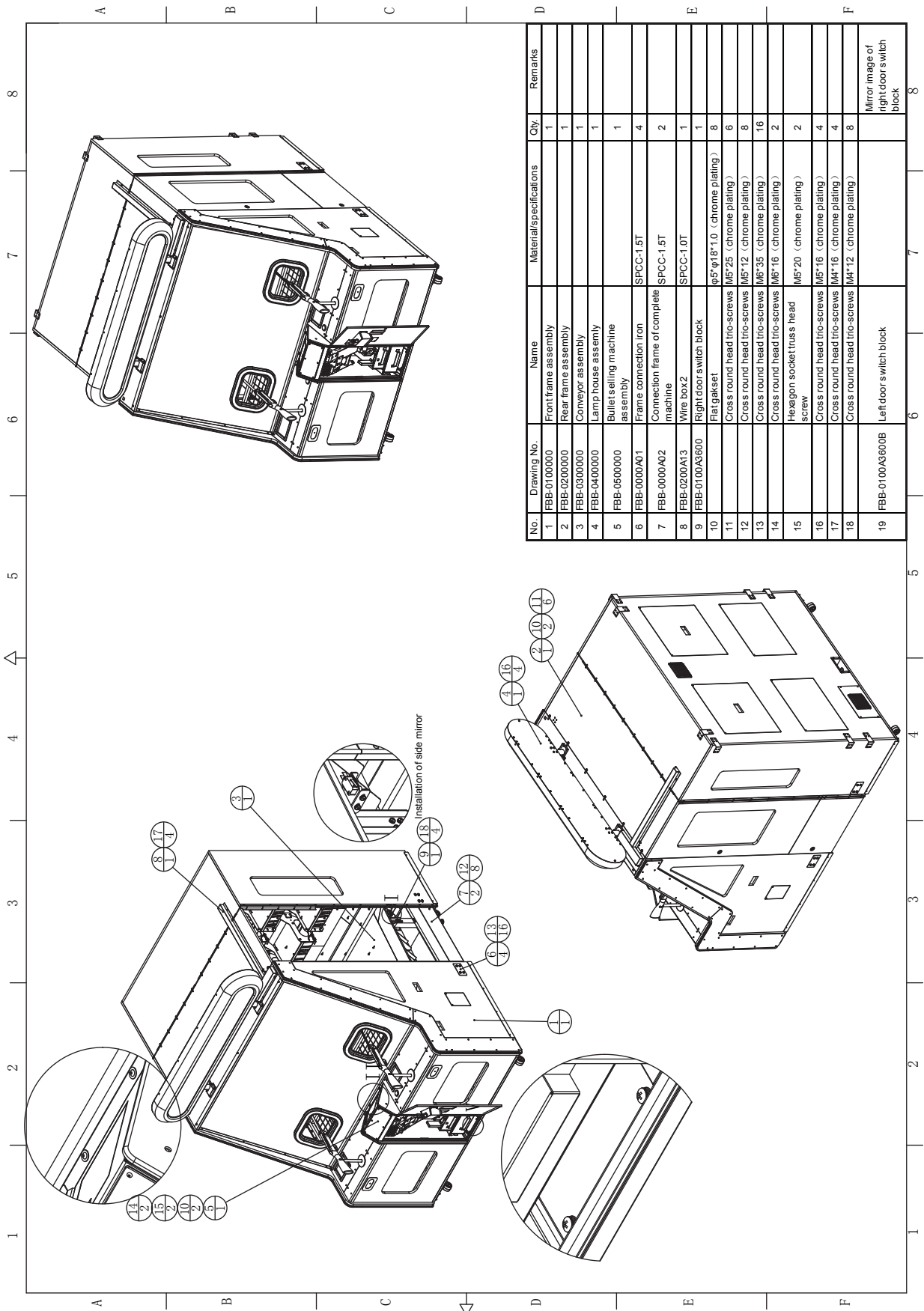
If the problem still exists, contact the manufacturer.

6. Assembly Drawing

6.1 Assembly Tree Drawing



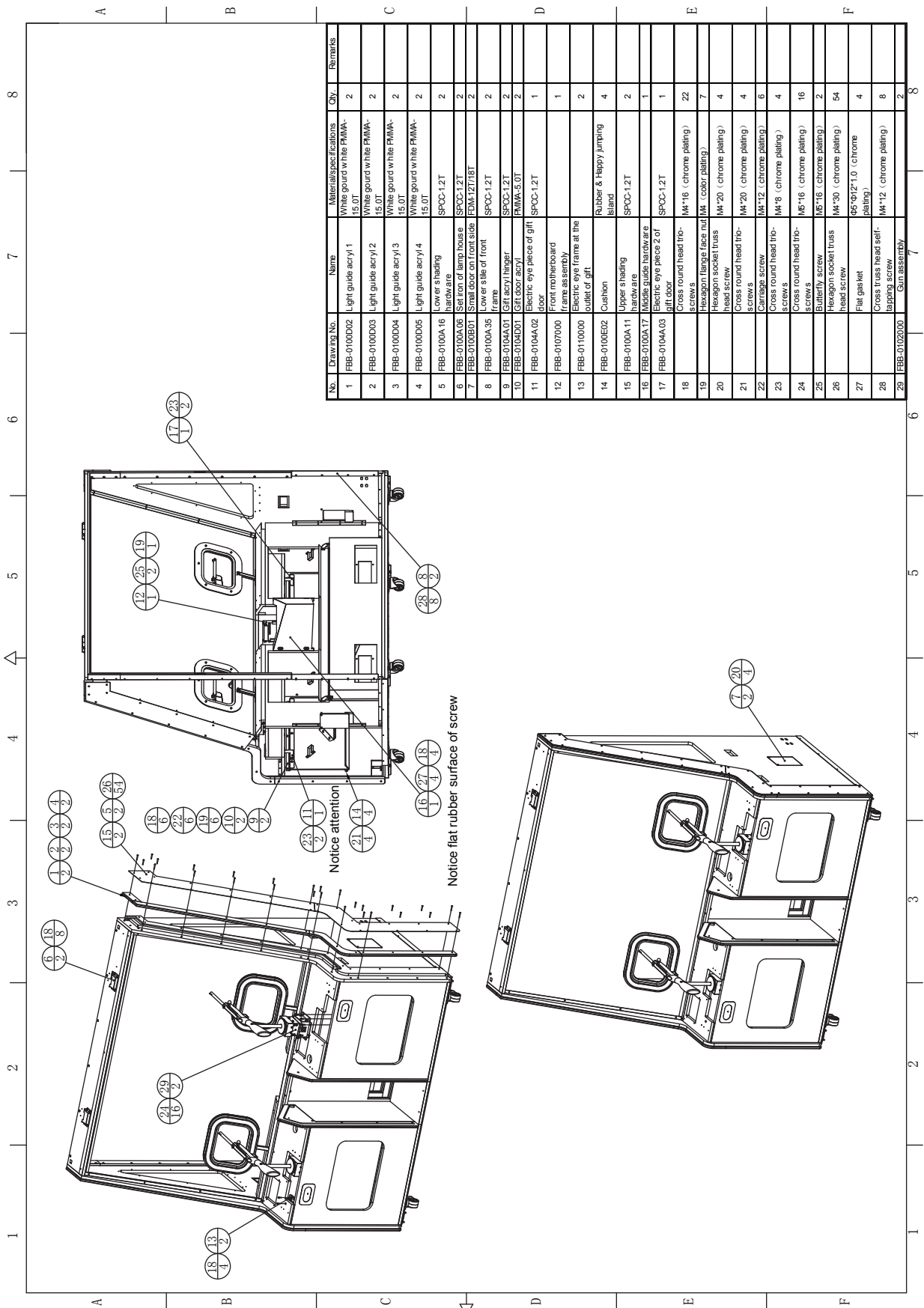
6.2 General drawing assembly



6.3 Front frame assembly 1/3

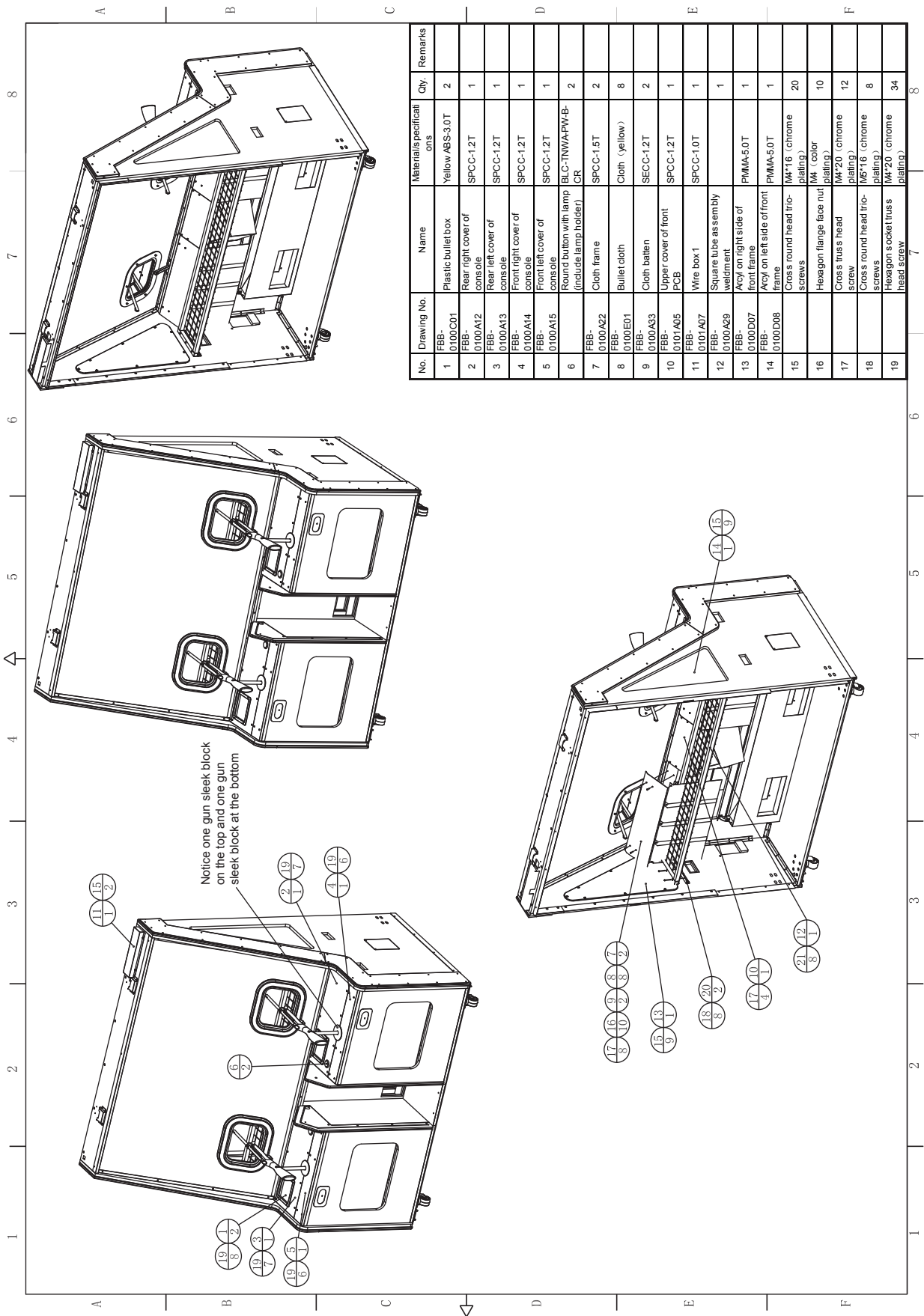
No.	Drawing No.	Name	Materials/pecifications	Qty.	Remarks
1	FBB-0101B01	Wooden frame front support	High density board-18ply/wood-18	1	
2	FBB-0100A26	Front frame top support as assembly weldment		1	
3	FBB-0100A28	Support assembly weldment on right side of front frame		1	
4	FBB-0100A27	Support assembly weldment on left side of front frame		1	
5	FBB-0100A07	Front frame bottom bound edge hardware 1	SPCC-1.2T	2	
6	FBB-0100A08	Front frame bottom bound edge hardware 2	SPCC-1.2T	1	
7	FBB-0100A01	Supporting iron on both sides of glazed window	SPCC-1.2T	2	
8	FBB-0100A21	Supporting iron at the bottom of glazed window	SPCC-1.2T	1	
9	FBB-0100A23	Supporting iron 2 at the bottom of window	SPCC-1.2T	2	
10	FBB-0100A32	Light guide hole cover of window	SPCC-1.2T	2	
11	FBB-0100B00	Bullet recycling bin assembly		1	
12	FBB-0103R00	Gun and window acrylic assembly		1	
13	FBB-0101A02	Glitter acrylic stopper iron	SPCC-1.2T	4	
14	FBB-0100A02	Clamp iron on both sides of glazed window	SPCC-1.2T	2	
15	FBB-0100A03	Upper clamp iron of glazed window	SPCC-1.2T	1	
16	FBB-0100A04	Lower clamp iron of glazed window	SPCC-1.2T	1	
17	FBB-0100D01	Acrylic on left side of bullet machine	White gourd white PMMA-15.0T	1	
18	FBB-0100A20	Supporting iron on the top of window	SPCC-1.2T	1	
19	FBB-0100A25	Foundation screw cap	SPCC-1.2T	2	
20	FBB-0100D06	Acrylic on left side of bullet machine	White gourd white PMMA-15.0T	1	
21	FBB-0101A04	Large guide slide board of grill	SPCC-1.2T	1	
22		Oval antimagnetic horn 3x5 inch	Material-not specified	2	
23	FBB-0105A01	Horn cover	SPCC-1.2T/mesh board-1.0T	2	
24	FBB-0101A06	Large guide slide board 2 of grill	SPCC-1.2T	1	
25		Cross nuts head screw	M5*12 (chrome plating)	8	
26		Cross nuts head self-tapping screw	M4*12 (chrome plating)	34	
27		Cross round head tico-screws	M4*16 (chrome plating)	16	
28		Cross round head tico-screws	M4*16 (chrome plating)	26	
29		Flat gasket	34*30*1.0 (chrome plating)	8	
30		Carriage screw	M4*16 (chrome plating)	8	
31		Hexagon flange face nut	M4 (color plating)	16	
32		Cross nuts head screw	M4*20 (chrome plating)	10	
33		Hexagon socket nuts head screw	M4*20 (chrome plating)	4	
34		Cross round head tico-screws	M5*20 (chrome plating)	9	

Front frame assembly 2/3

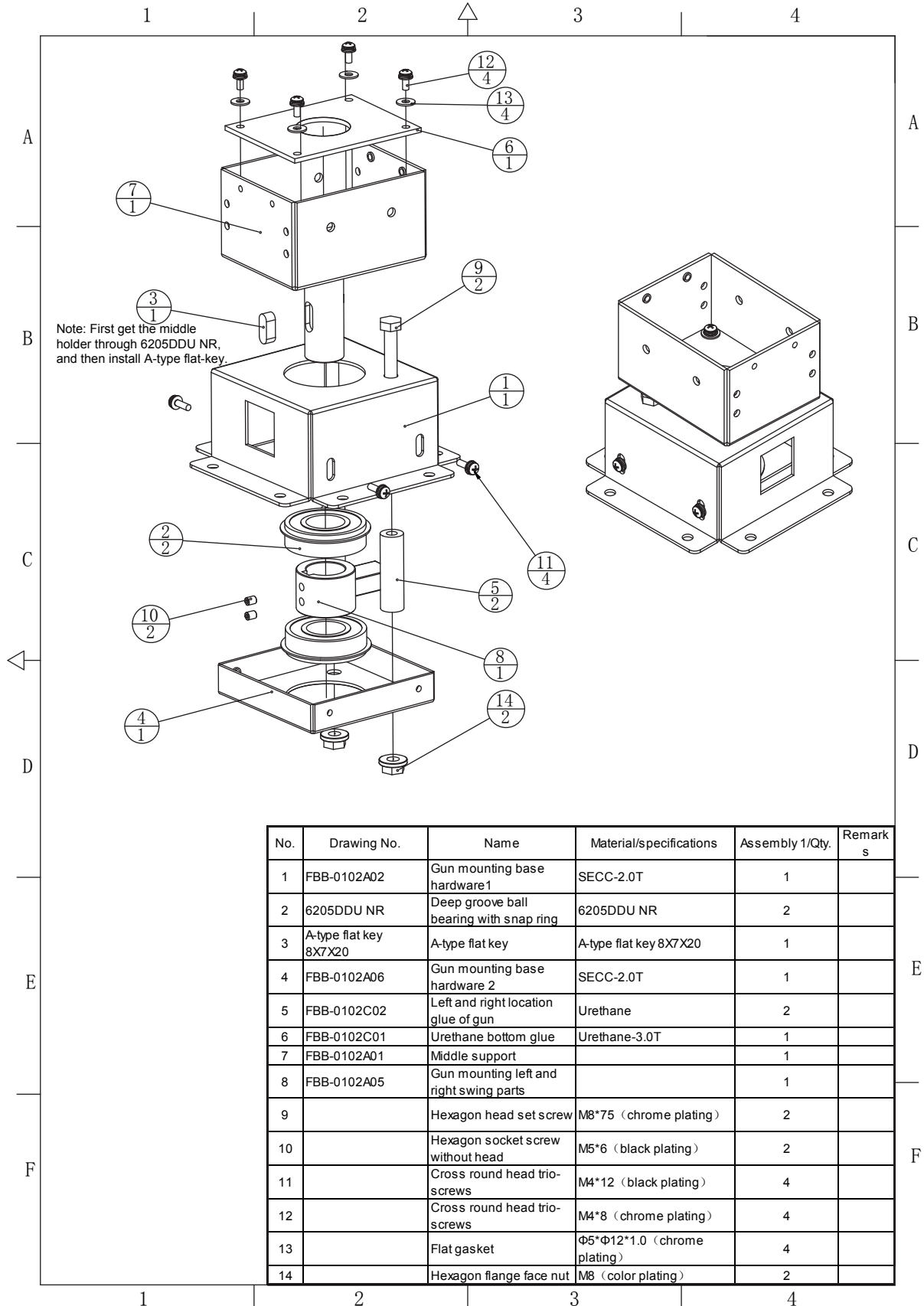


No.	Drawing No.	Name	Material specifications	Qty.	Remarks
1	FBB-0100D02	Light guide acrylic 1	White gourd white PMMA-15.0T	2	
2	FBB-0100D03	Light guide acrylic 2	White gourd white PMMA-15.0T	2	
3	FBB-0100D04	Light guide acrylic 3	White gourd white PMMA-15.0T	2	
4	FBB-0100D05	Light guide acrylic 4	White gourd white PMMA-15.0T	2	
5	FBB-0100A16	Lower shading hardware	SPOC-1.2T	2	
6	FBB-0100A06	Set iron of lamp house	SPOC-1.2T	2	
7	FBB-0100B01	Small door on front side	FDM-12T/18T	2	
8	FBB-0100A35	Lower sile of front frame	SPOC-1.2T	2	
9	FBB-0100A01	Gift acrylic hinger	SPOC-1.2T	2	
10	FBB-0100D01	Gift door acrylic	PMMA-5.0T	2	
11	FBB-0100A02	Electric eye piece of gift door	SPOC-1.2T	1	
12	FBB-0107000	Front motherboard frame assembly		1	
13	FBB-0110000	Electric eye frame at the outlet of gift		2	
14	FBB-0100E02	Cushion	Rubber & Happy Jumping Island	4	
15	FBB-0100A11	Upper shading hardware	SPOC-1.2T	2	
16	FBB-0100A17	Shade guide hardware		1	
17	FBB-0100A03	Electric eye piece Z of gift door	SPOC-1.2T	1	
18		Cross round head truss screws	M4*16 (chrome plating)	7	
19		Hexagon flange face nut	M4 (cobor plating)	4	
20		Hexagon socket truss head screw	M4*20 (chrome plating)	4	
21		Cross round head truss screws	M4*20 (chrome plating)	4	
22		Carriage screw	M4*12 (chrome plating)	6	
23		Cross round head truss screws	M4*8 (chrome plating)	4	
24		Cross round head truss screws	M6*16 (chrome plating)	16	
25		Butterfly screw	M5*16 (chrome plating)	2	
26		Hexagon socket truss head screw	M4*30 (chrome plating)	54	
27		Flat gasket	Ø55*Ø12*1.0 (chrome plating)	4	
28		Cross truss head self-tapping screw	M4*12 (chrome plating)	8	
29	FBB-0102000	Gun assembly		2	

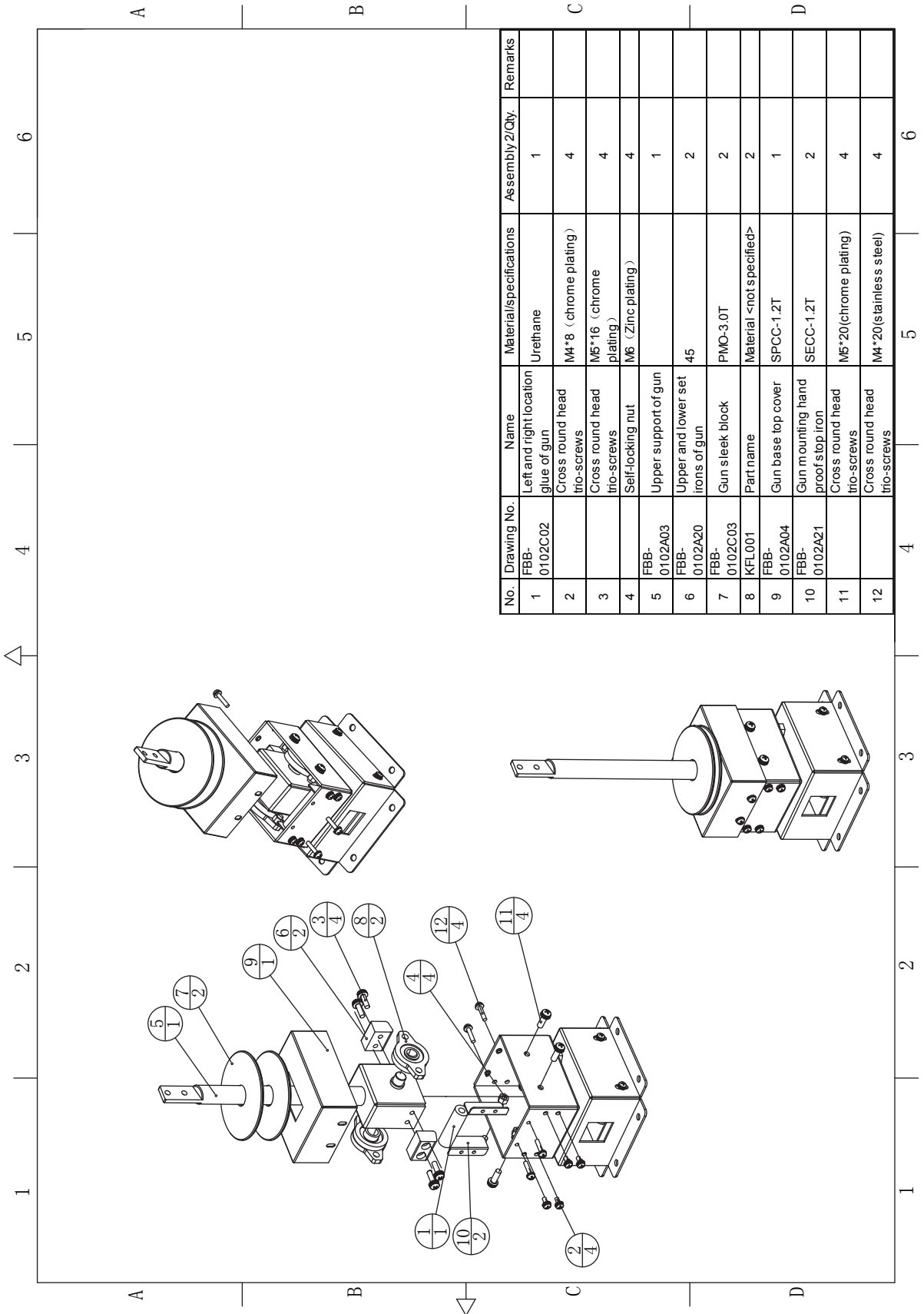
Front frame assembly 3/3



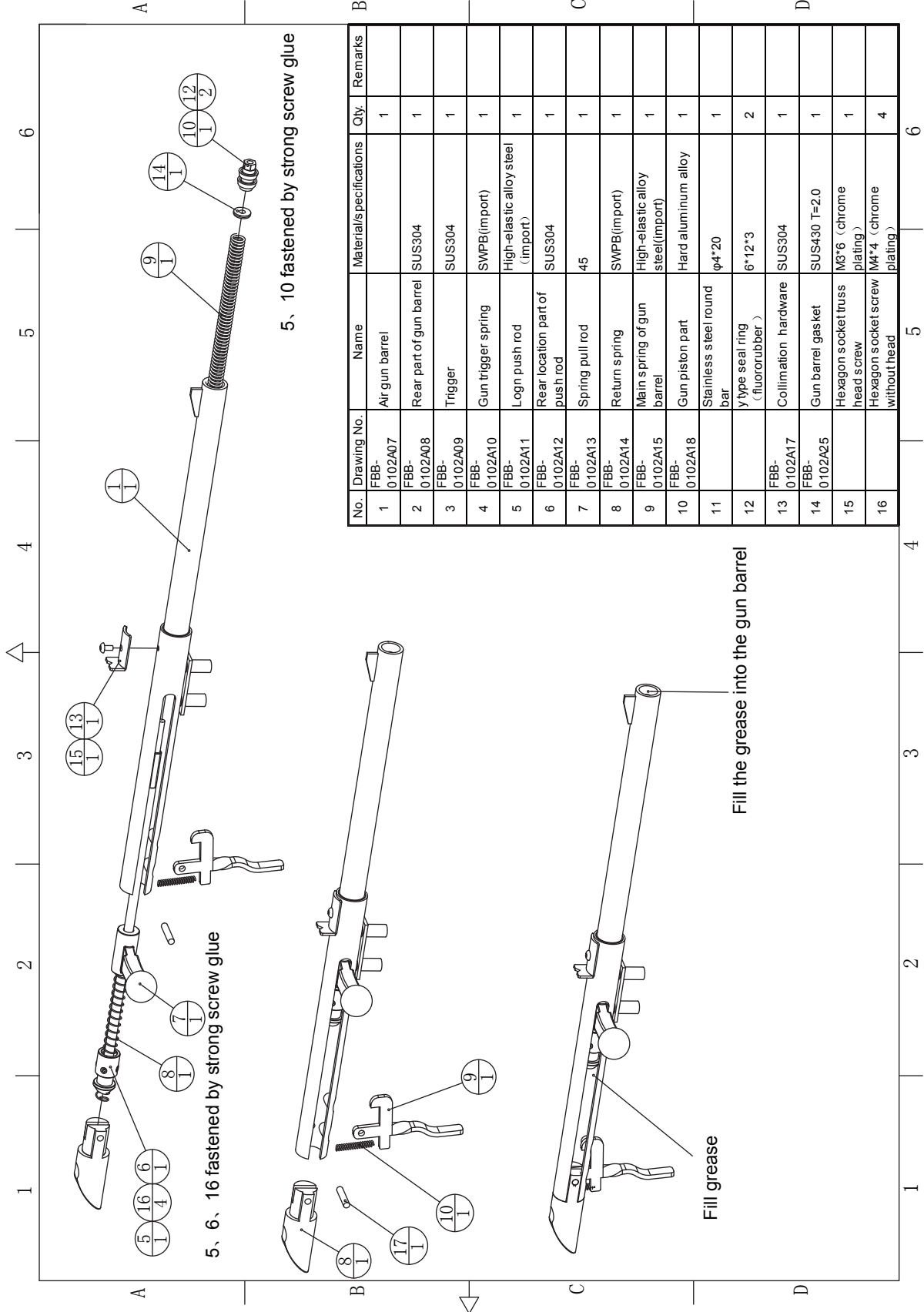
6.3.1 Gun assembly1/4



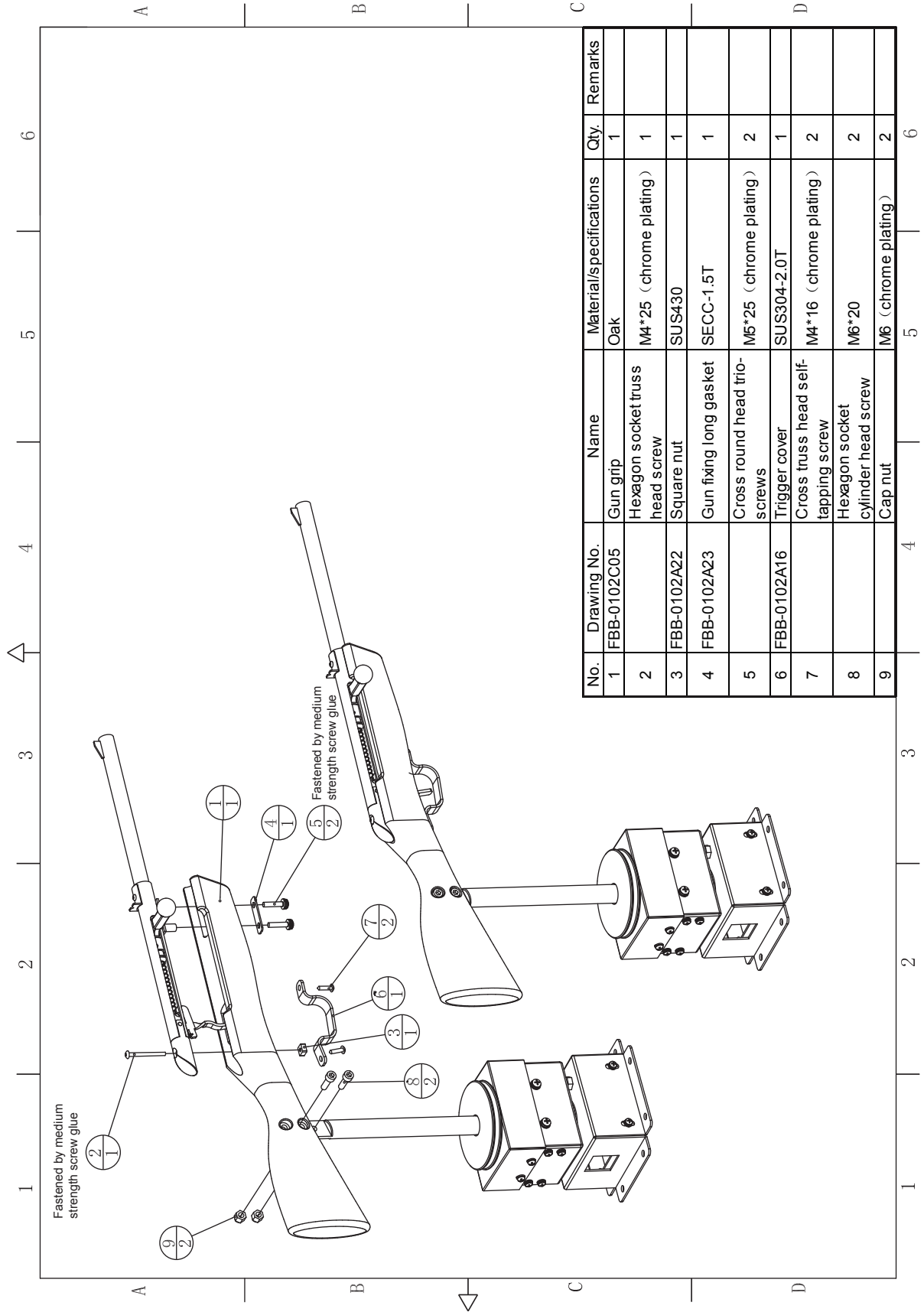
Gun assembly2/4



Gun assembly3/4

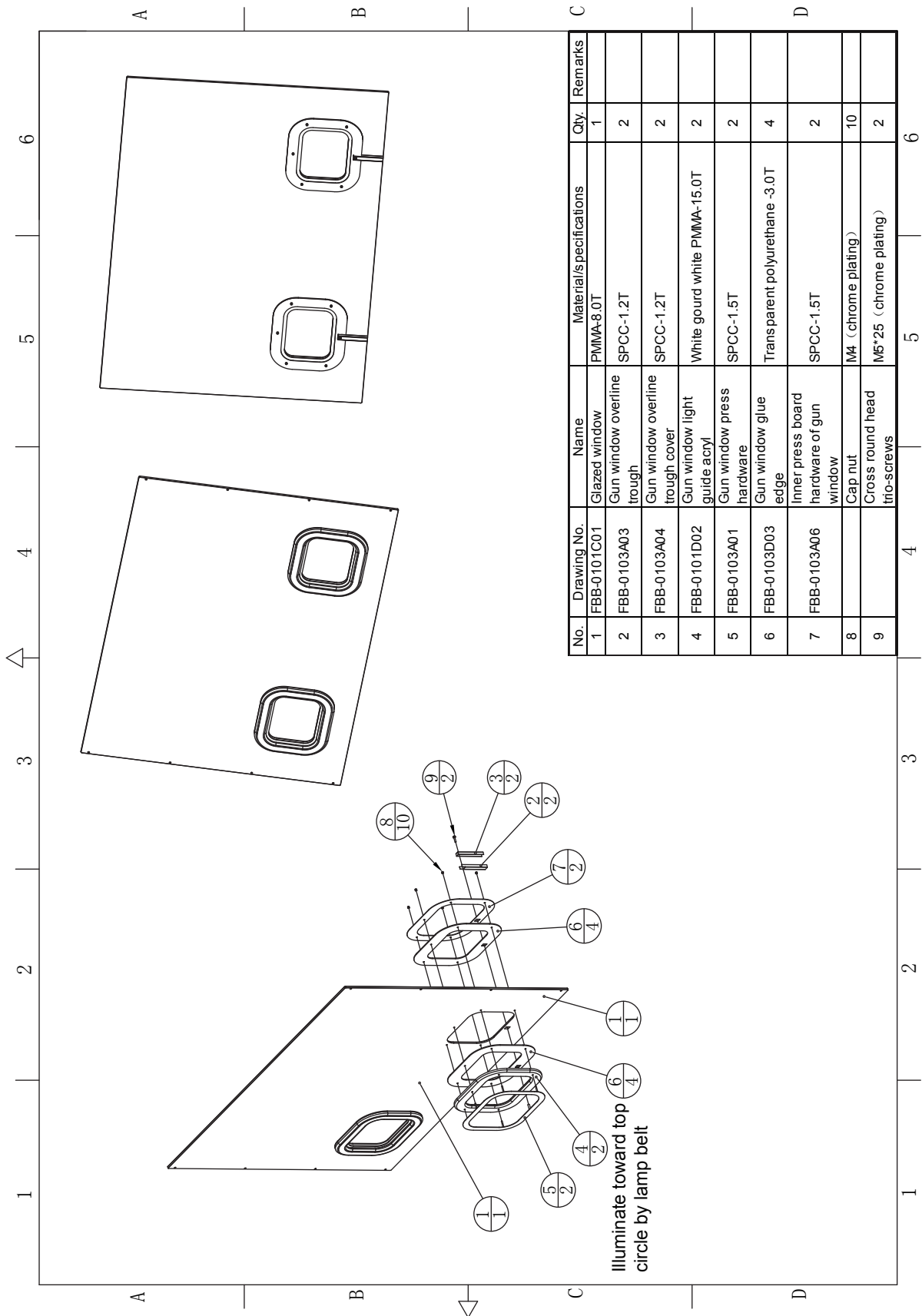


Gun assembly4/4



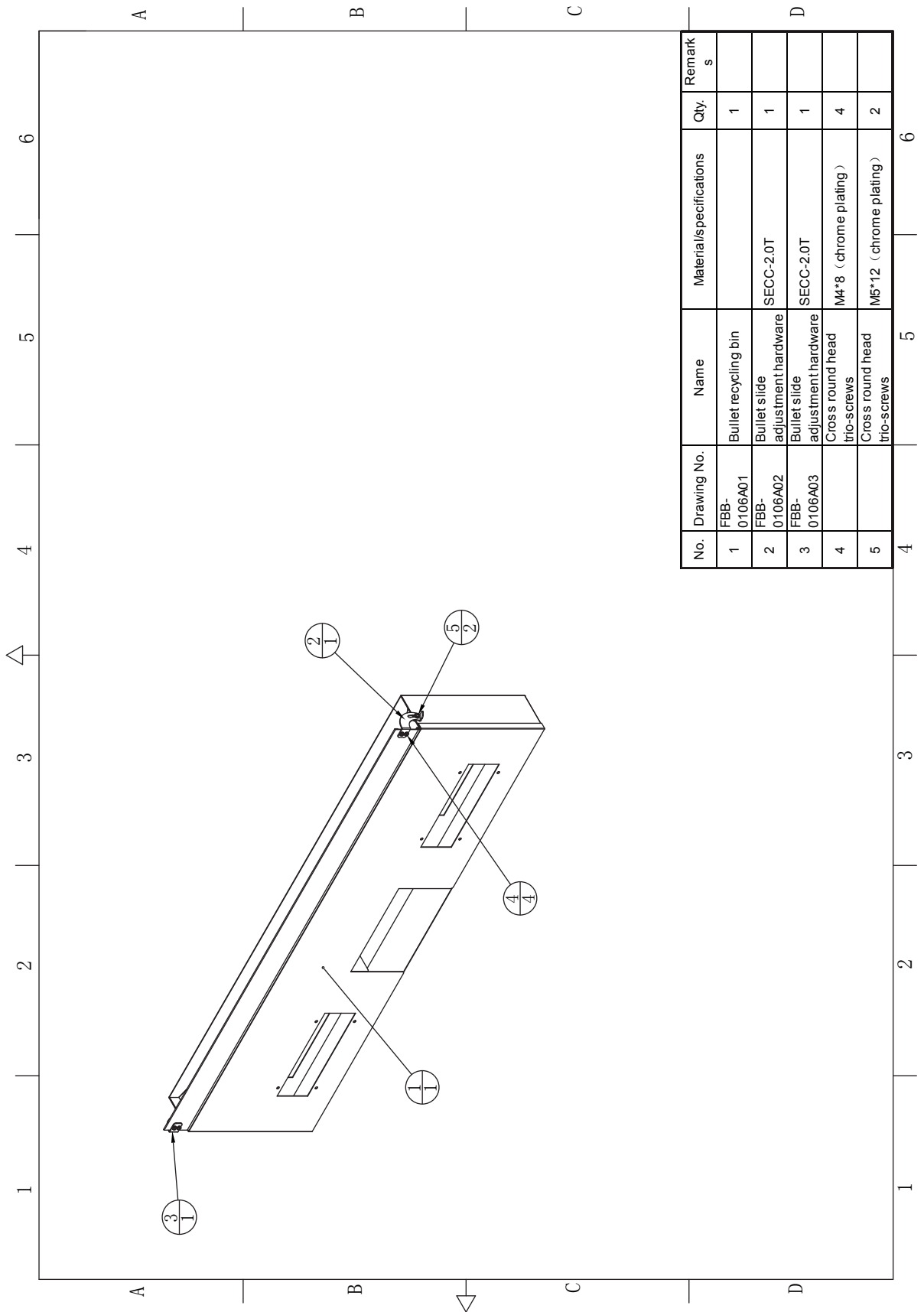
No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-0102C05	Gun grip	Oak	1	
2		Hexagon socket truss head screw	M4*25 (chrome plating)	1	
3	FBB-0102A22	Square nut	SUS430	1	
4	FBB-0102A23	Gun fixing long gasket	SECC-1.5T	1	
5		Cross round head tri- screws	M5*25 (chrome plating)	2	
6	FBB-0102A16	Trigger cover	SUS304-2.0T	1	
7		Cross truss head self-tapping screw	M4*16 (chrome plating)	2	
8		Hexagon socket cylinder head screw	M6*20	2	
9		Cap nut	M6 (chrome plating)	2	

6.3.2 Gun window acryl assembly



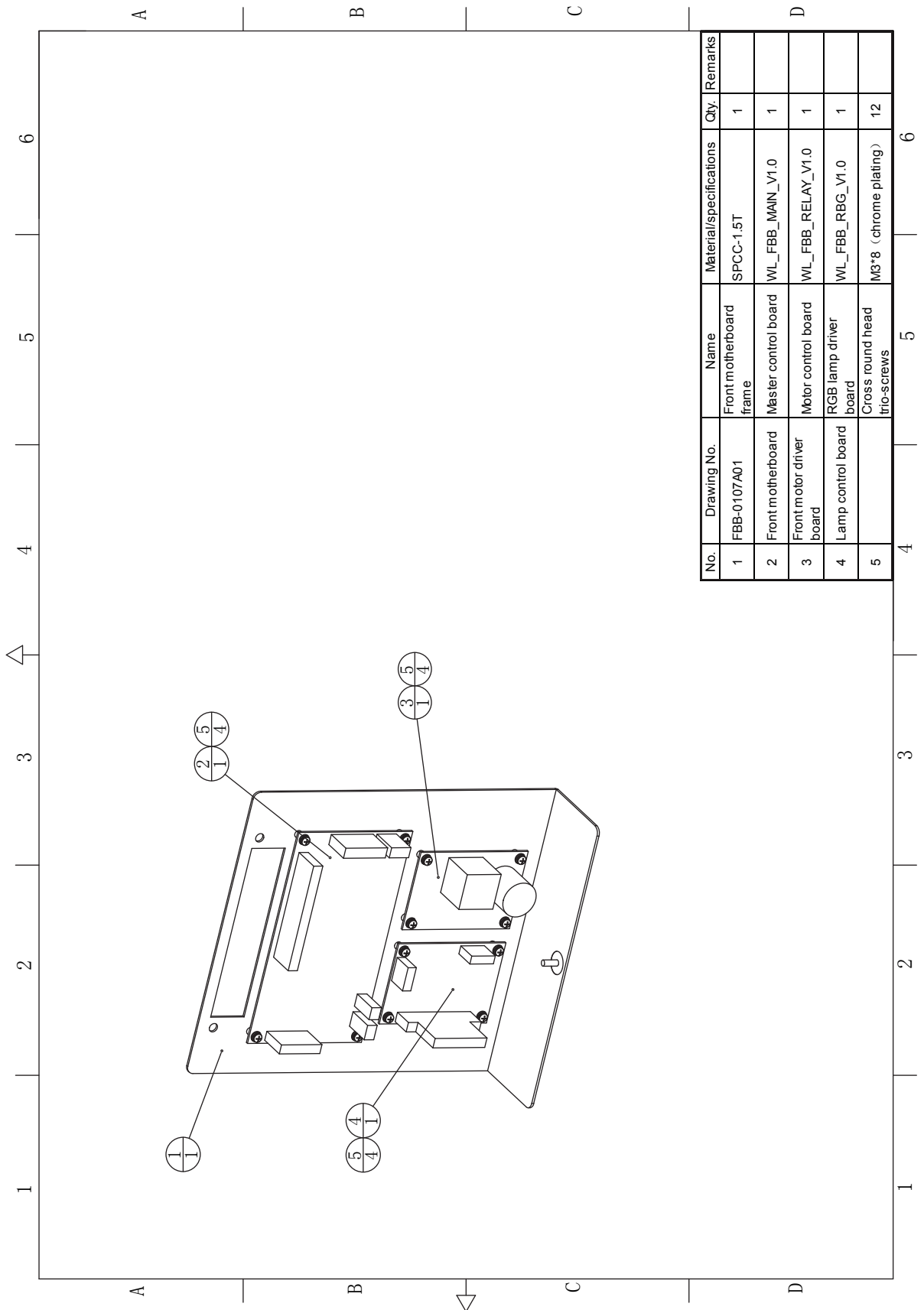
No.	Drawing No.	Name	Material/s pecifications	Qty.	Remarks
1	FBB-010TC01	Glazed window	PMMA-8.0T	1	
2	FBB-0103A03	Gun window overline trough	SPCC-1.2T	2	
3	FBB-0103A04	Gun window overline trough cover	SPCC-1.2T	2	
4	FBB-0101D02	Gun window light guide acrylic	White gourd white PMMA-15.0T	2	
5	FBB-0103A01	Gun window press hardware	SPCC-1.5T	2	
6	FBB-0103D03	Gun window glue edge	Transparent polyurethane -3.0T	4	
7	FBB-0103A06	Inner press board hardware of gun window	SPCC-1.5T	2	
8		Cap nut	M4 (chrome plating)	10	
9		Cross round head trio-screws	M5*25 (chrome plating)	2	

6.3.3 Bullet recycling bin assembly

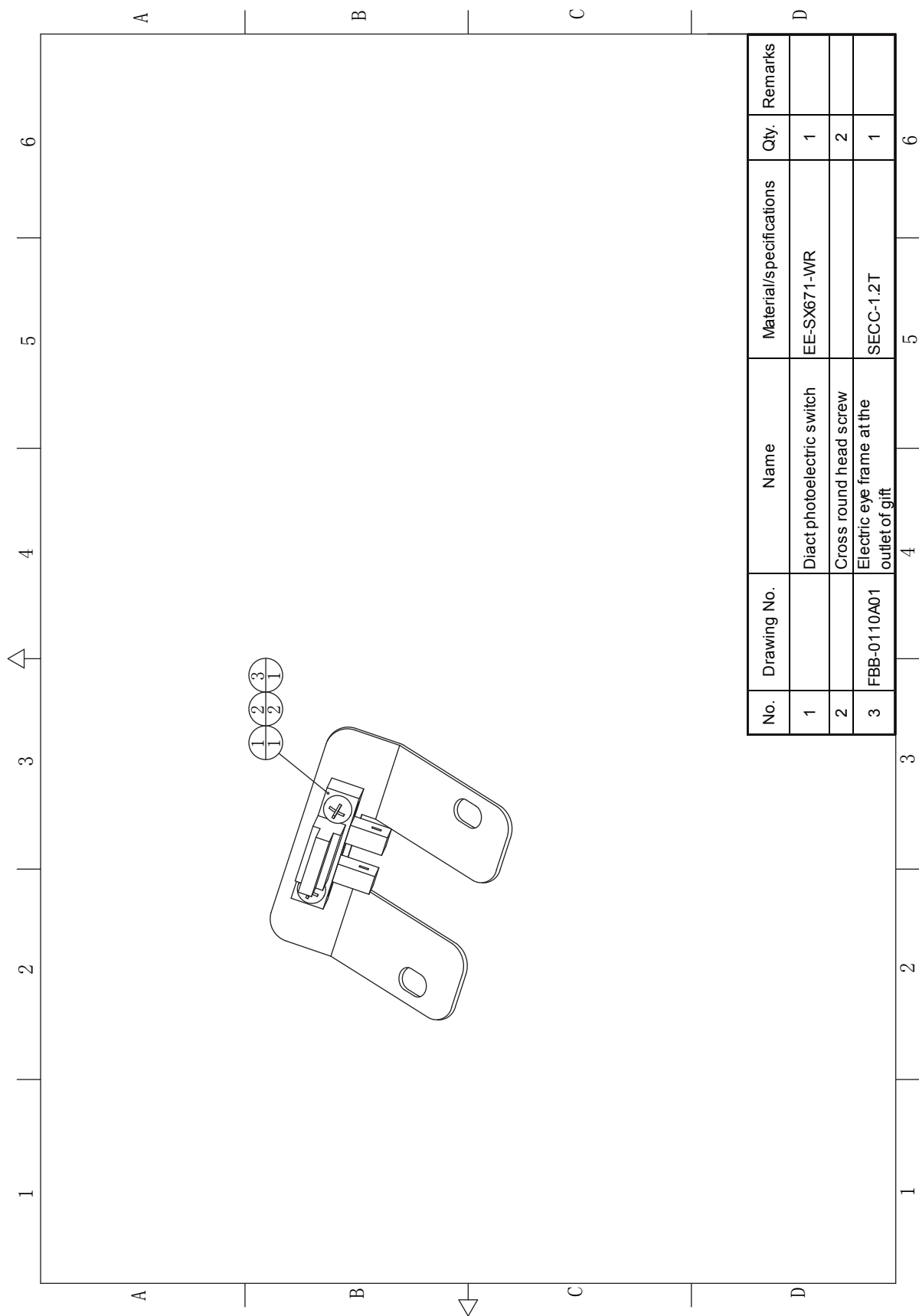


No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-0106A01	Bullet recycling bin		1	
2	FBB-0106A02	Bullet slide adjustment hardware	SECC-2.0T	1	
3	FBB-0106A03	Bullet slide adjustment hardware	SECC-2.0T	1	
4		Cross round head tri-screws	M4*8 (chrome plating)	4	
5		Cross round head tri-screws	M5*12 (chrome plating)	2	
4				5	
				6	

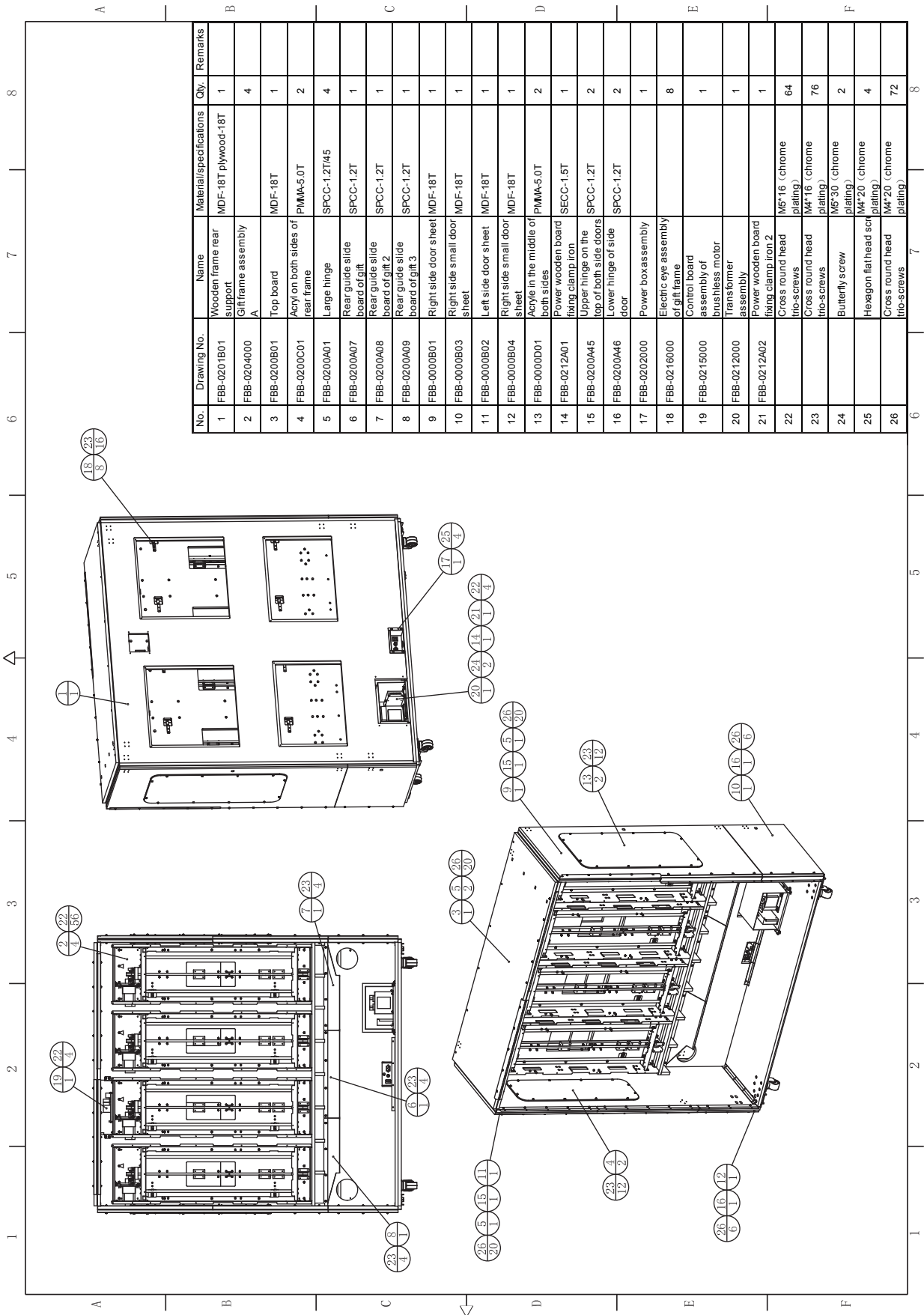
6.3.4 Front motherboard frame assembly



6.3.5 Electric eye frame at the outlet of gift

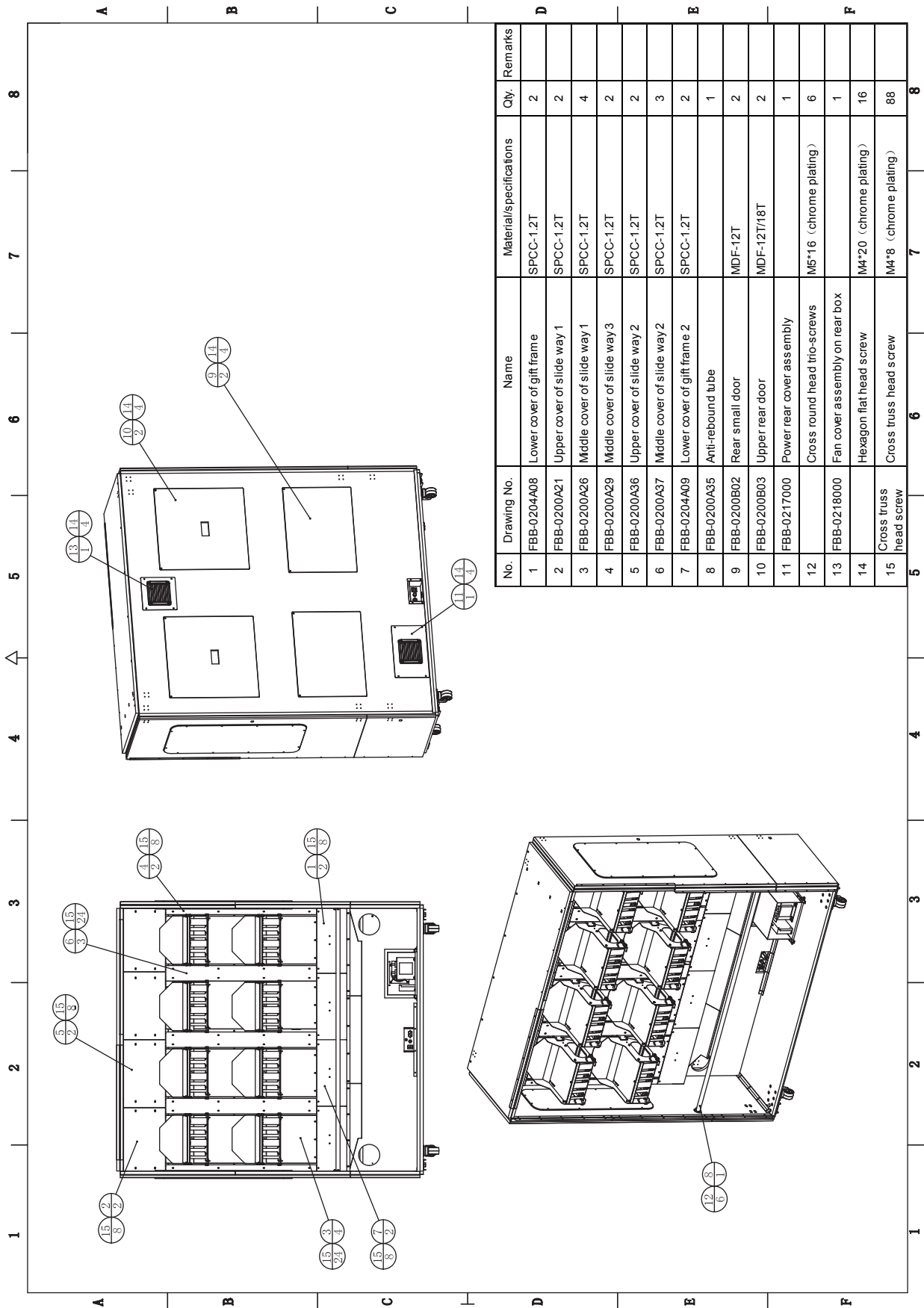


6.4 Rear frame assembly1/3



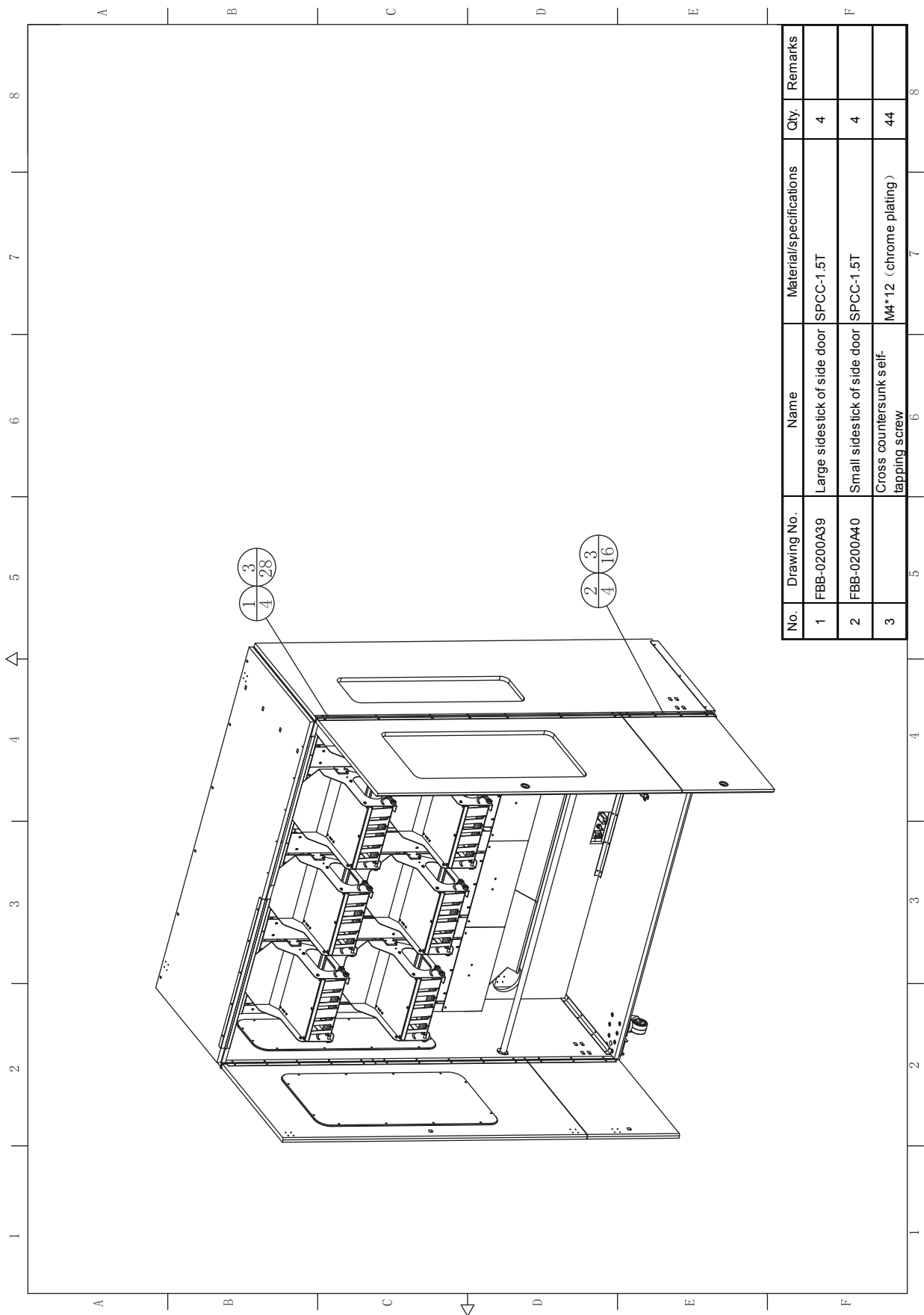
No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-0201B01	Wooden frame rear support	MDF-18T plywood-18T	1	
2	FBB-0204D00	Glft frame assembly A		4	
3	FBB-0200B01	Top board	MDF-18T	1	
4	FBB-0200C01	Acryl on both sides of rear frame	PIMMA-5.0T	2	
5	FBB-0200A01	Large hinge	SPCC-1.2T/45	4	
6	FBB-0200A07	Rear guide slide board of glft.	SPCC-1.2T	1	
7	FBB-0200A08	Rear guide slide board of glft 2	SPCC-1.2T	1	
8	FBB-0200A09	Rear guide slide board of glft 3	SPCC-1.2T	1	
9	FBB-0000B01	Right side door sheet	MDF-18T	1	
10	FBB-0000B03	Right side small door sheet	MDF-18T	1	
11	FBB-0000B02	Left side door sheet	MDF-18T	1	
12	FBB-0000B04	Right side small door sheet	MDF-18T	1	
13	FBB-0000D01	Acryle in the middle of both sides	PIMMA-5.0T	2	
14	FBB-0212A01	Power wooden board fixing clamp iron	SECC-1.5T	1	
15	FBB-0200A45	Upper hinge on the top of both side doors	SPCC-1.2T	2	
16	FBB-0200A46	Lower hinge of side door	SPCC-1.2T	2	
17	FBB-0202000	Power box assembly		1	
18	FBB-0216000	Electric eye assembly of glft frame		8	
19	FBB-0215000	Control board assembly of brushless motor		1	
20	FBB-0212000	Transformer assembly		1	
21	FBB-0212A02	Power wooden board fixing clamp iron 2		1	
22		Cross round head lito-screws	M5*16 (chrome plating)	64	
23		Cross round head lito-screws	M4*16 (chrome plating)	76	
24		Butterfly's crew	M5*30 (chrome plating)	2	
25		Hexagon flat head scr	M4*20 (chrome plating)	4	
26		Cross round head lito-screws	M4*20 (chrome plating)	72	

Rear frame assembly2/3

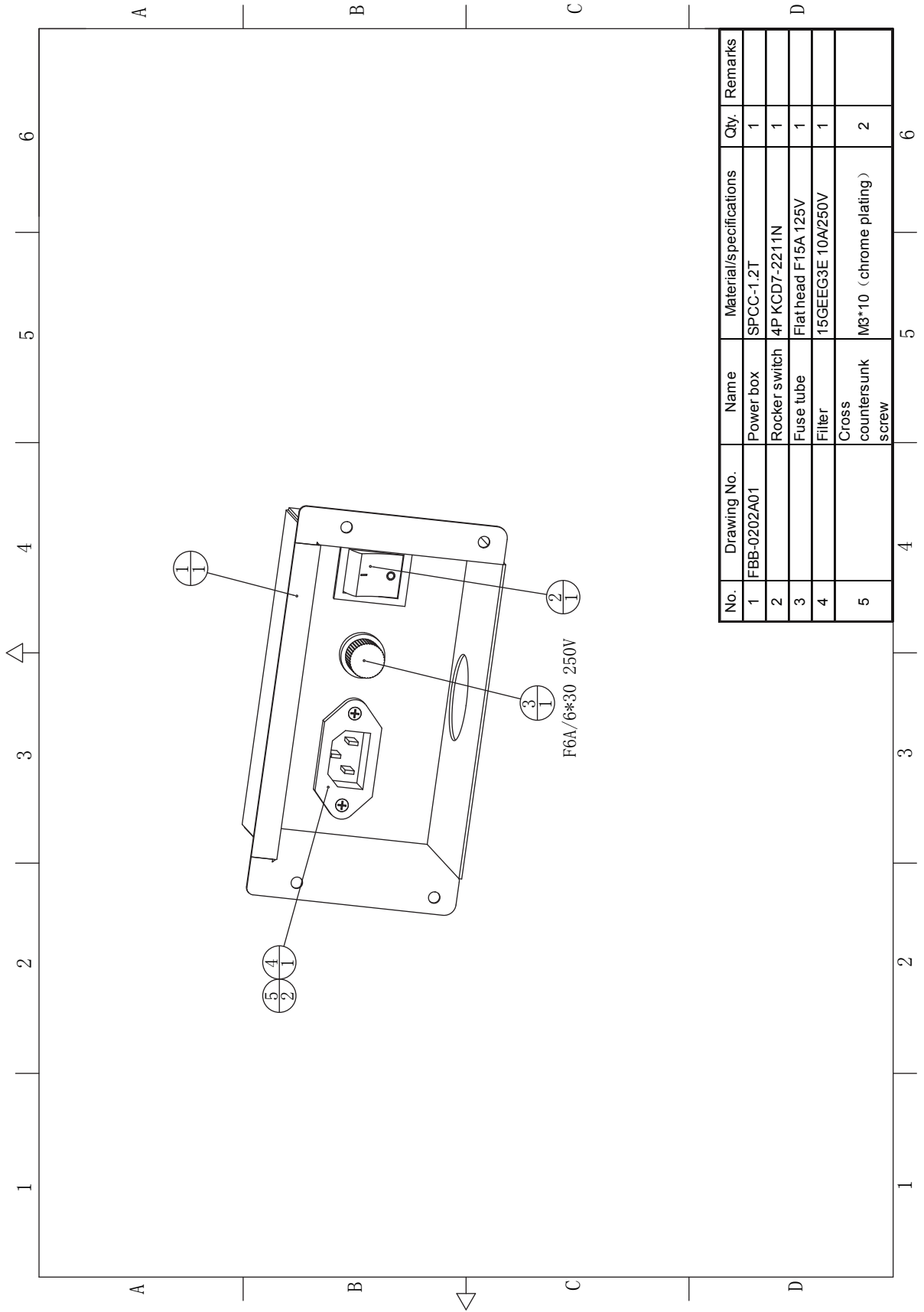


No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBF-0204A08	Lower cover of gift frame	SPCC-1.2T	2	
2	FBF-0200A21	Upper cover of slide way 1	SPCC-1.2T	2	
3	FBF-0200A26	Middle cover of slide way 1	SPCC-1.2T	4	
4	FBF-0200A29	Middle cover of slide way 3	SPCC-1.2T	2	
5	FBF-0200A36	Upper cover of slide way 2	SPCC-1.2T	2	
6	FBF-0200A37	Middle cover of slide way 2	SPCC-1.2T	3	
7	FBF-0204A09	Lower cover of gift frame 2	SPCC-1.2T	2	
8	FBF-0200A35	Anti-rebound tube		1	
9	FBF-0200B02	Rear small door	MDF-12T	2	
10	FBF-0200B03	Upper rear door	MDF-12T/18T	2	
11	FBF-0217000	Power rear cover assembly		1	
12		Cross round head trio-screws	M5*16 (chrome plating)	6	
13	FBF-0218000	Fan cover assembly on rear box		1	
14		Hexagon flat head screw	M4*20 (chrome plating)	16	
15		Cross truss head screw	M4*8 (chrome plating)	88	

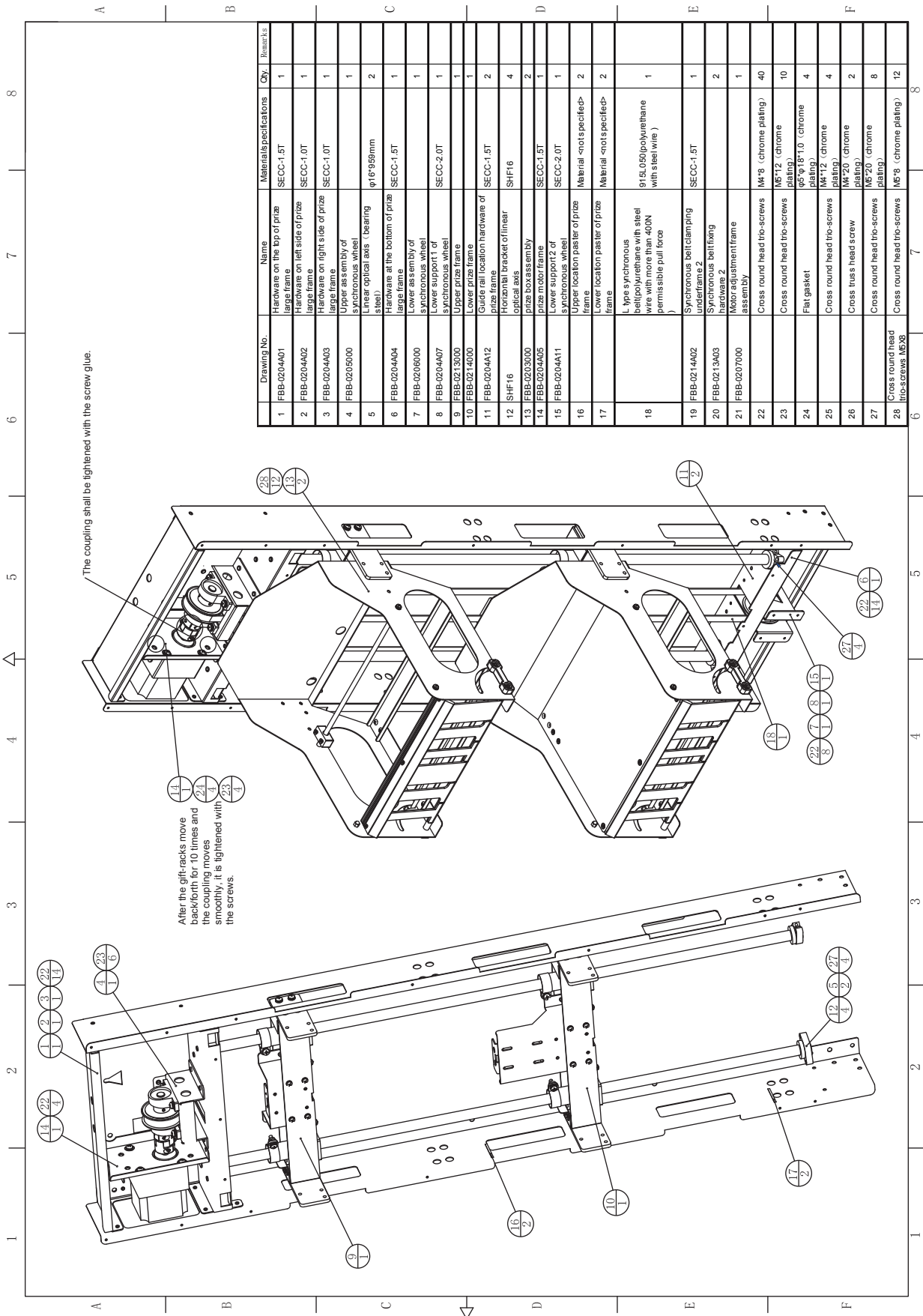
Rear frame assembly 3/3



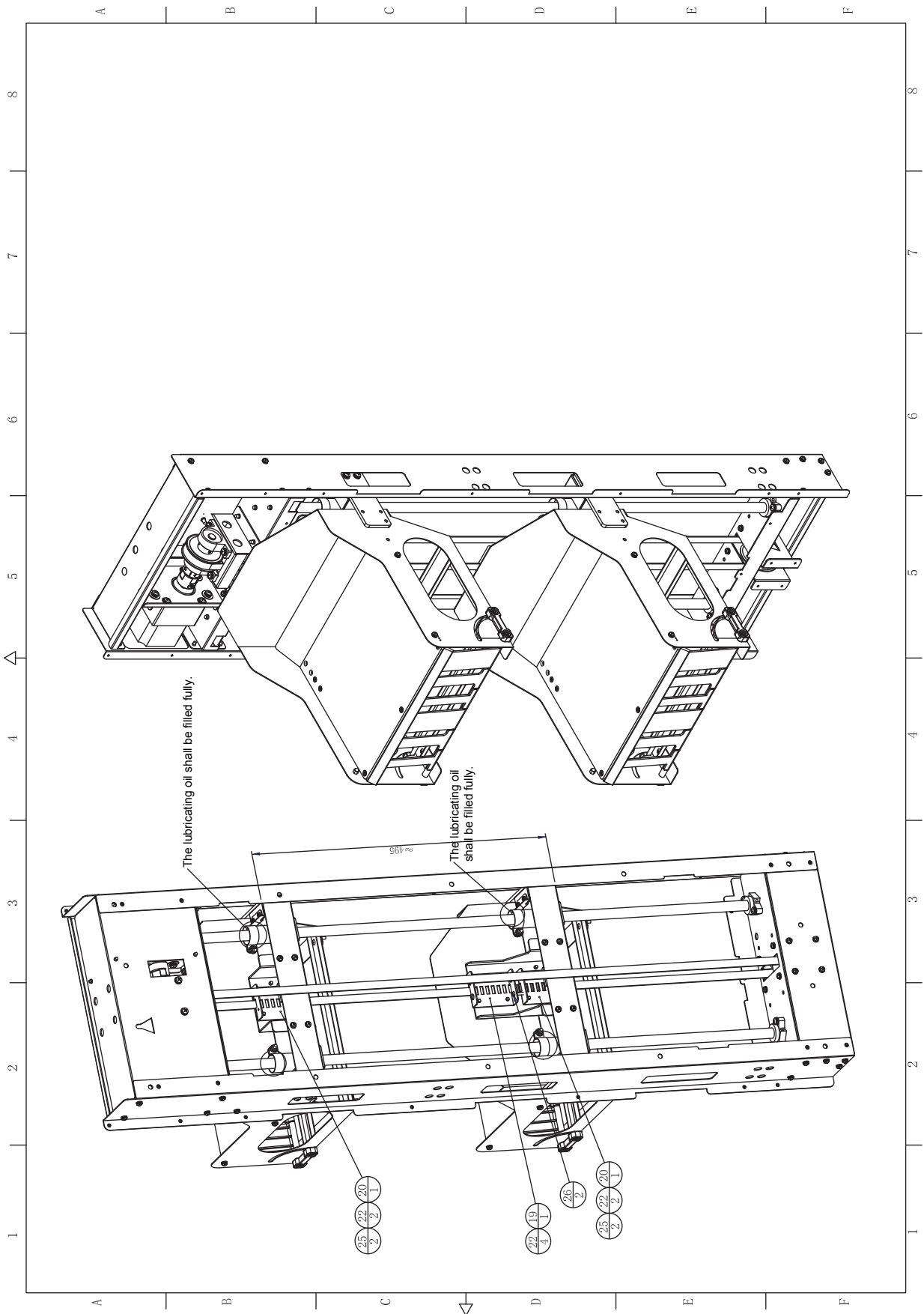
6.4.1 Power box assembly



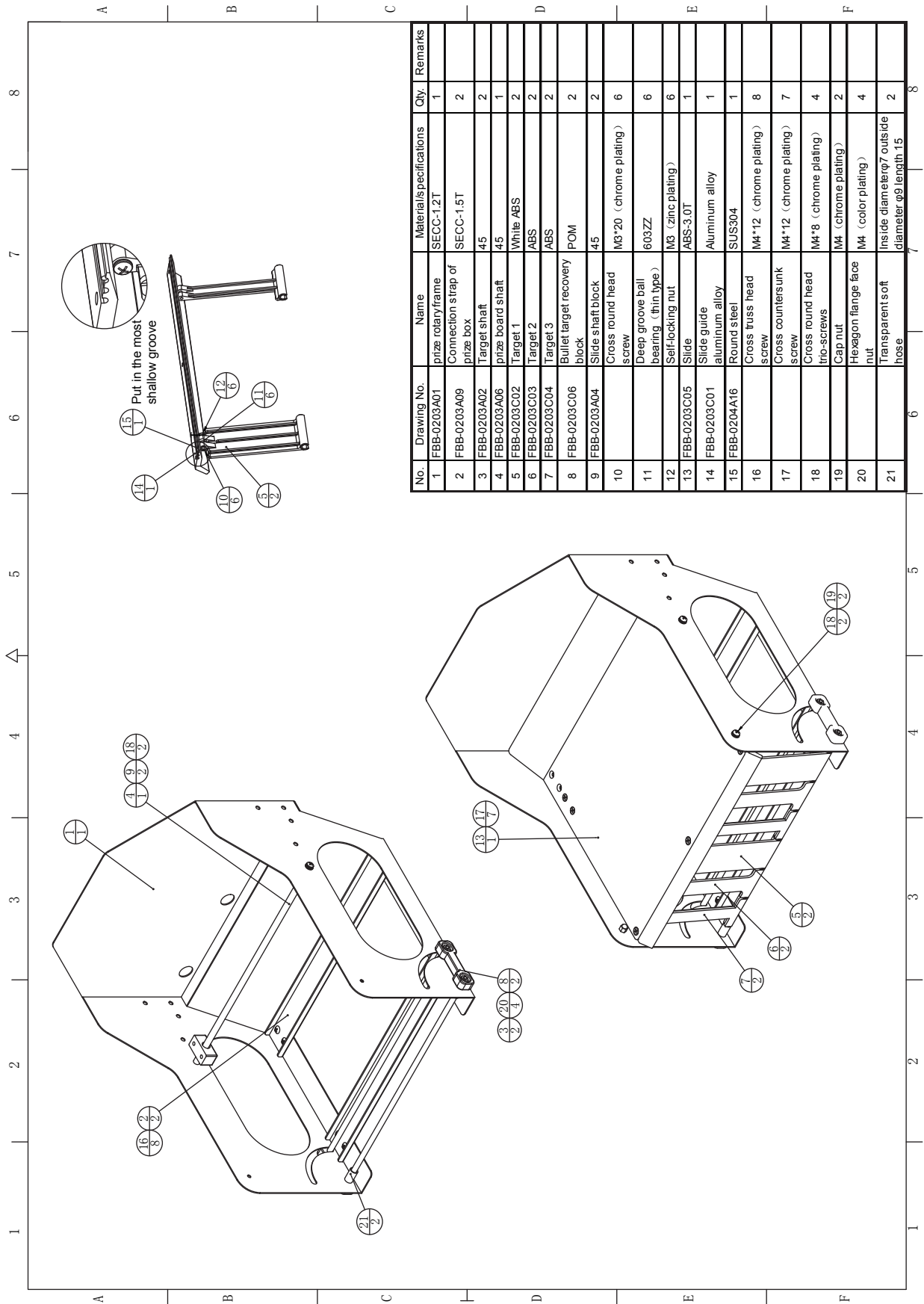
6.4.2 Gift box assembly A 1/2



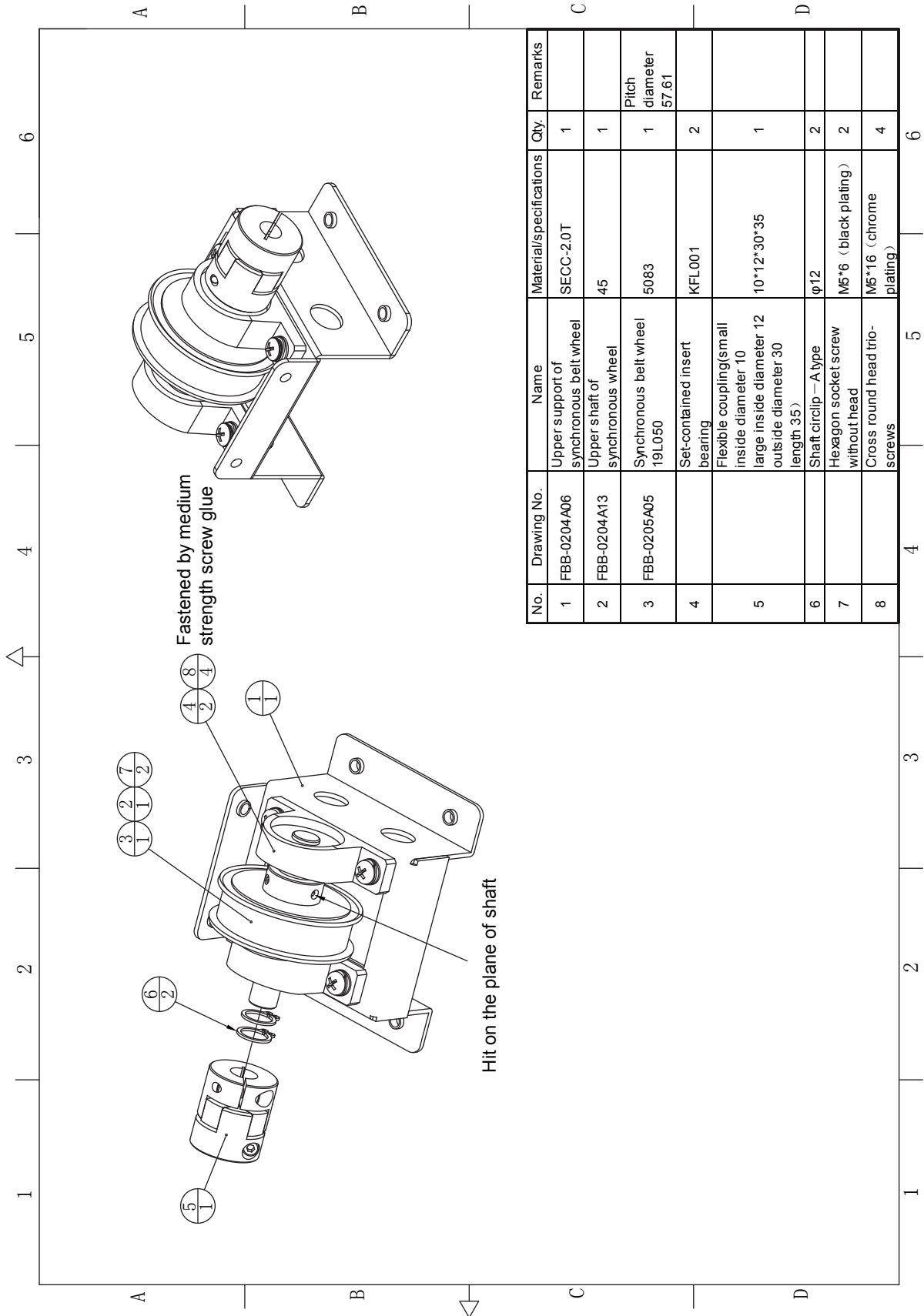
Gift box assembly A 2/2



6.4.2.1 Gift box assembly

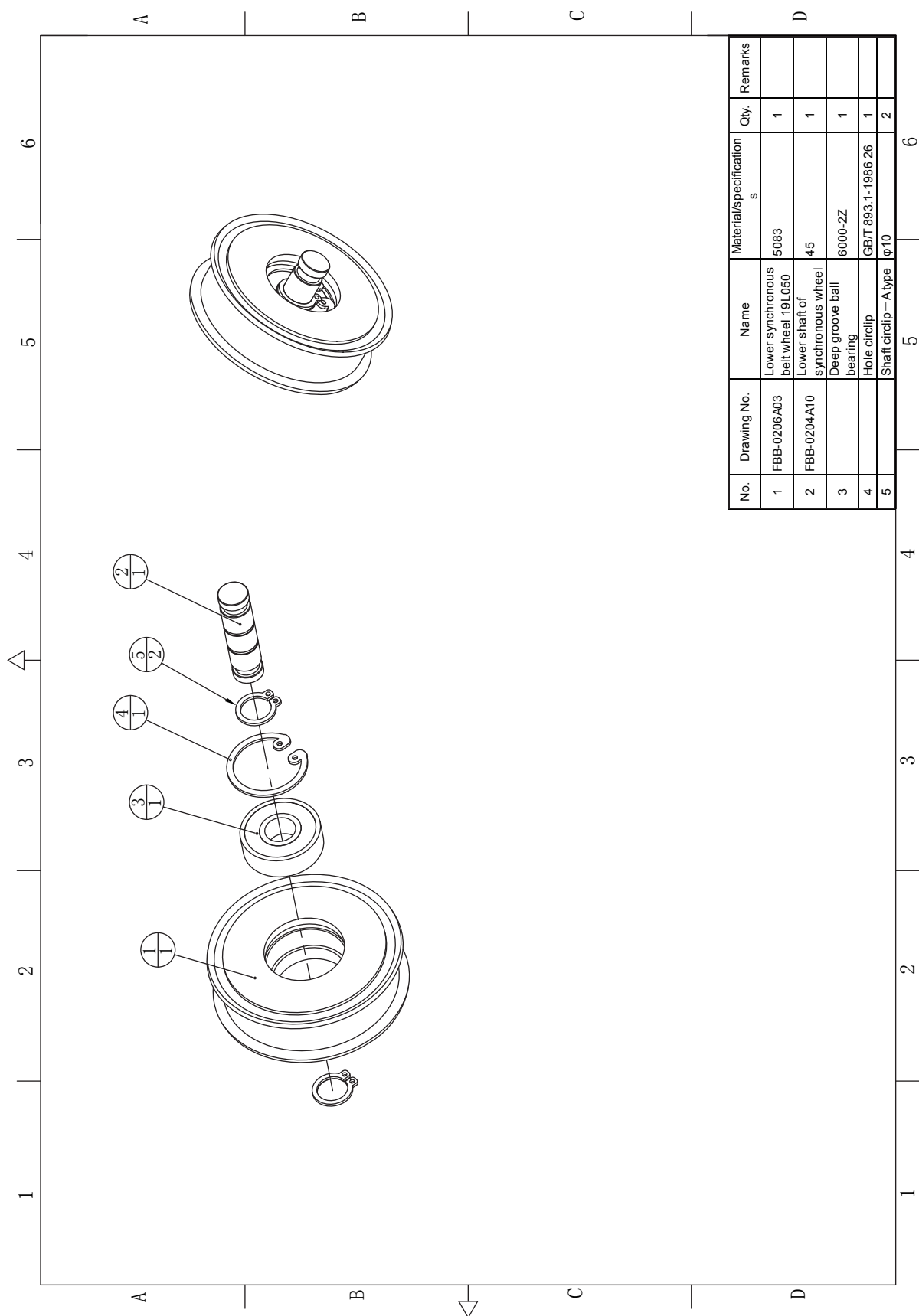


6.4.2.2 Upper assembly of synchronous wheel



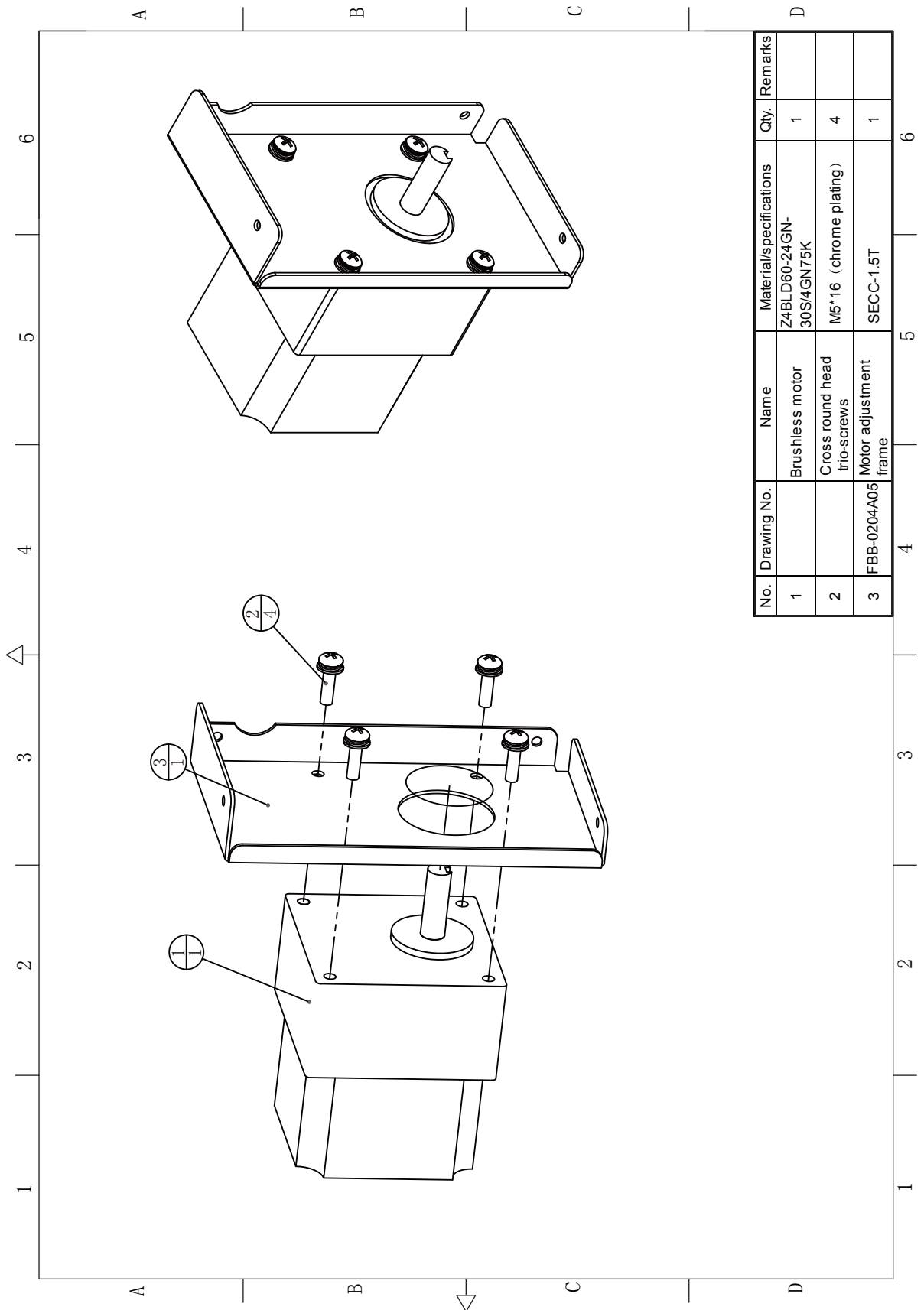
No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-0204A06	Upper support of synchronous belt wheel	SECC-2.0T	1	
2	FBB-0204A13	Upper shaft of synchronous wheel	45	1	
3	FBB-0205A05	Synchronous belt wheel 19L050	5083	1	Pitch diameter 57.61
4		Set-contained insert bearing	KFL001	2	
5		Flexible coupling (small inside diameter 10 large inside diameter 12 outside diameter 30 length 35)	10*12*30*35	1	
6		Shaft circlip—A type	φ12	2	
7		Hexagon socket screw without head	M5*6 (black plating)	2	
8		Cross round head trio-screws	M5*16 (chrome plating)	4	

6.4.2.3 Lower assembly of synchronous wheel



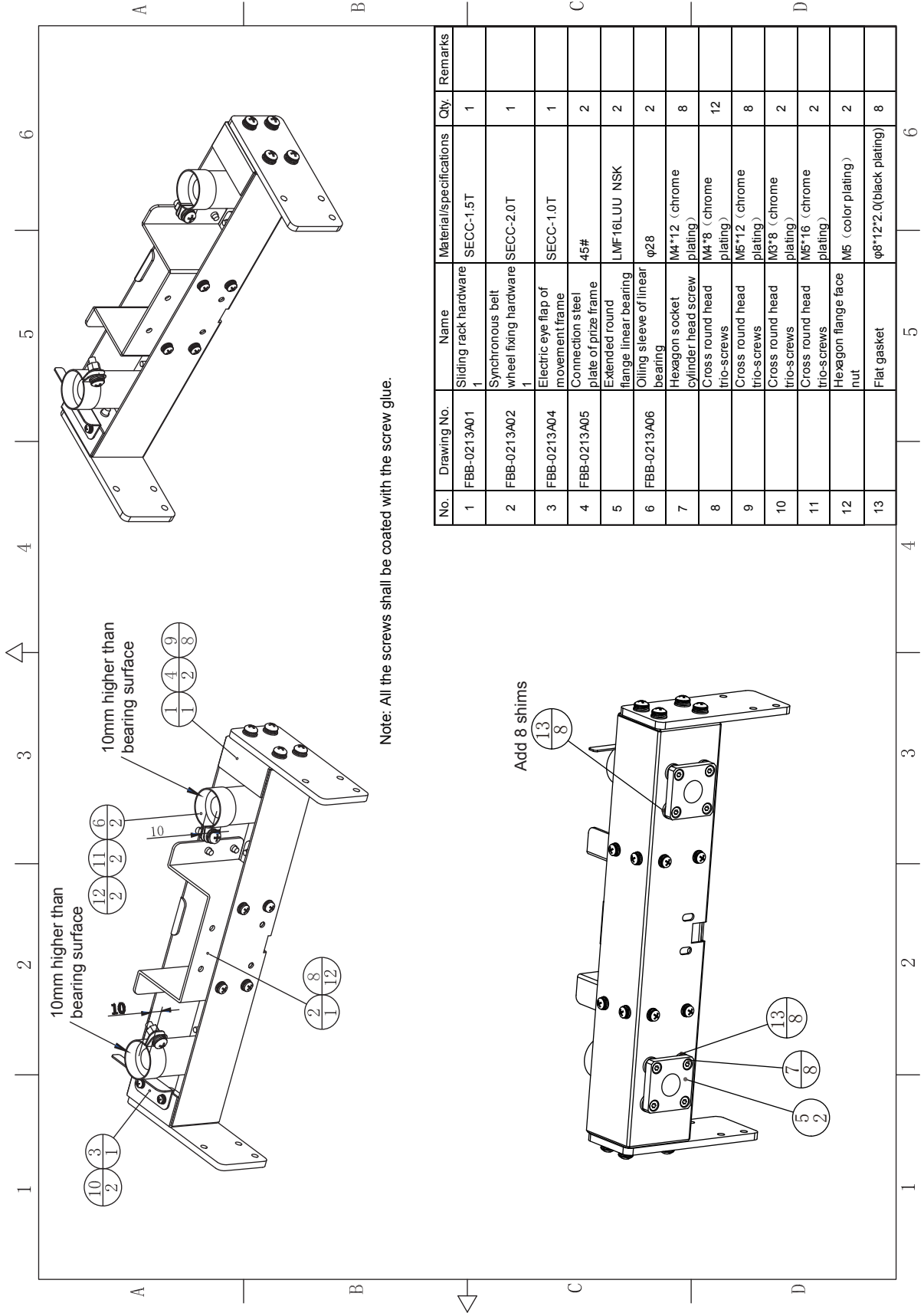
No.	Drawing No.	Name	Material/specification	Qty.	Remarks
1	FBB-0206A03	Lower synchronous belt wheel 19L050	5083	1	
2	FBB-0204A10	Lower shaft of synchronous wheel	45	1	
3		Deep groove ball bearing	6000-2Z	1	
4		Hole circlip	GB/T 893.1-1986 26	1	
5		Shaft circlip - A type	φ10	2	

6.4.2.4 Motor adjustment frame assembly

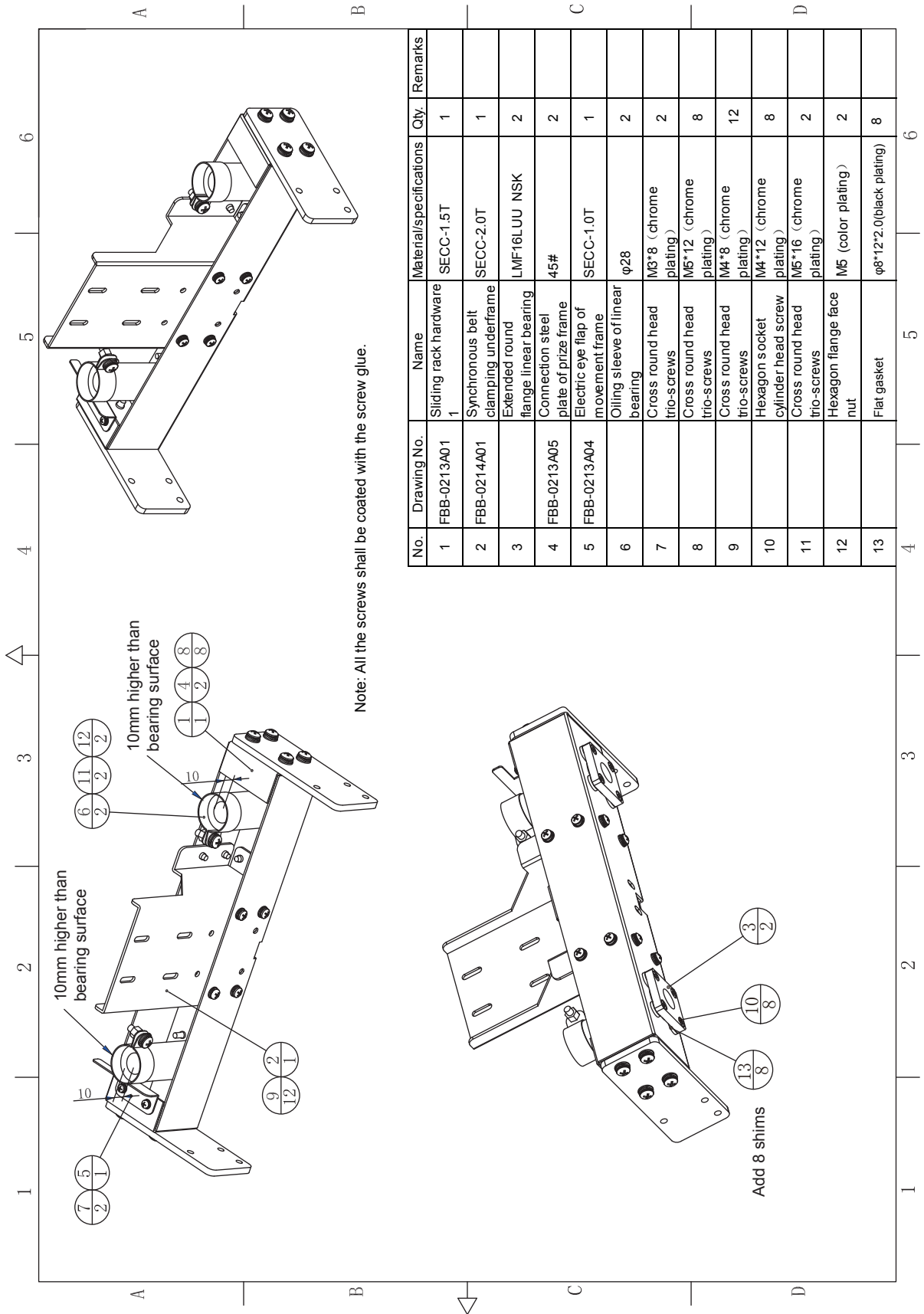


No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1		Brushless motor	Z4BLD60-24GN-30S/4GN75K	1	
2		Cross round head trio-screws	M5*16 (chrome plating)	4	
3	FBB-0204A05	Motor adjustment frame	SECC-1.5T	1	

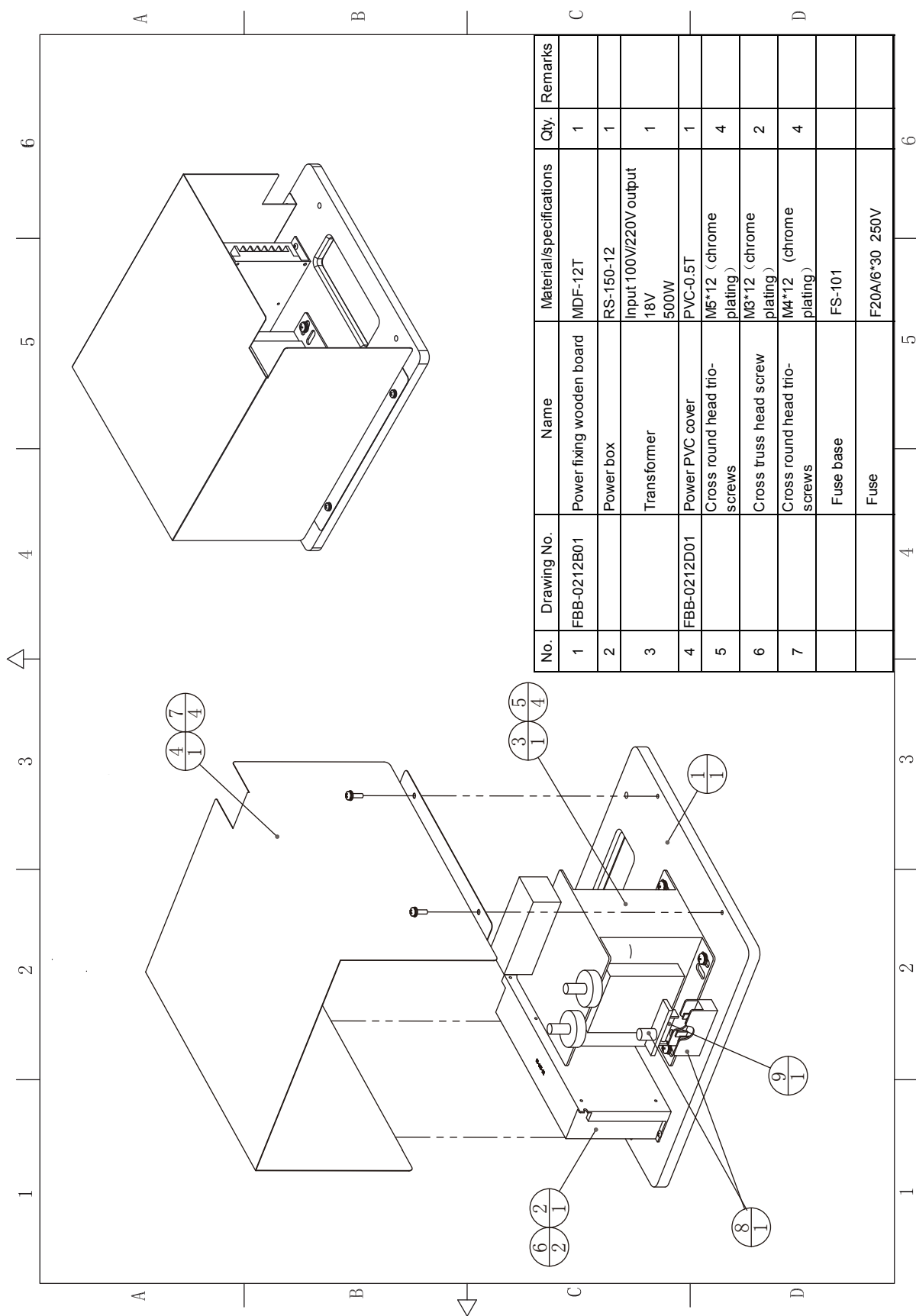
6.4.2.5 Upper assembly of gift frame



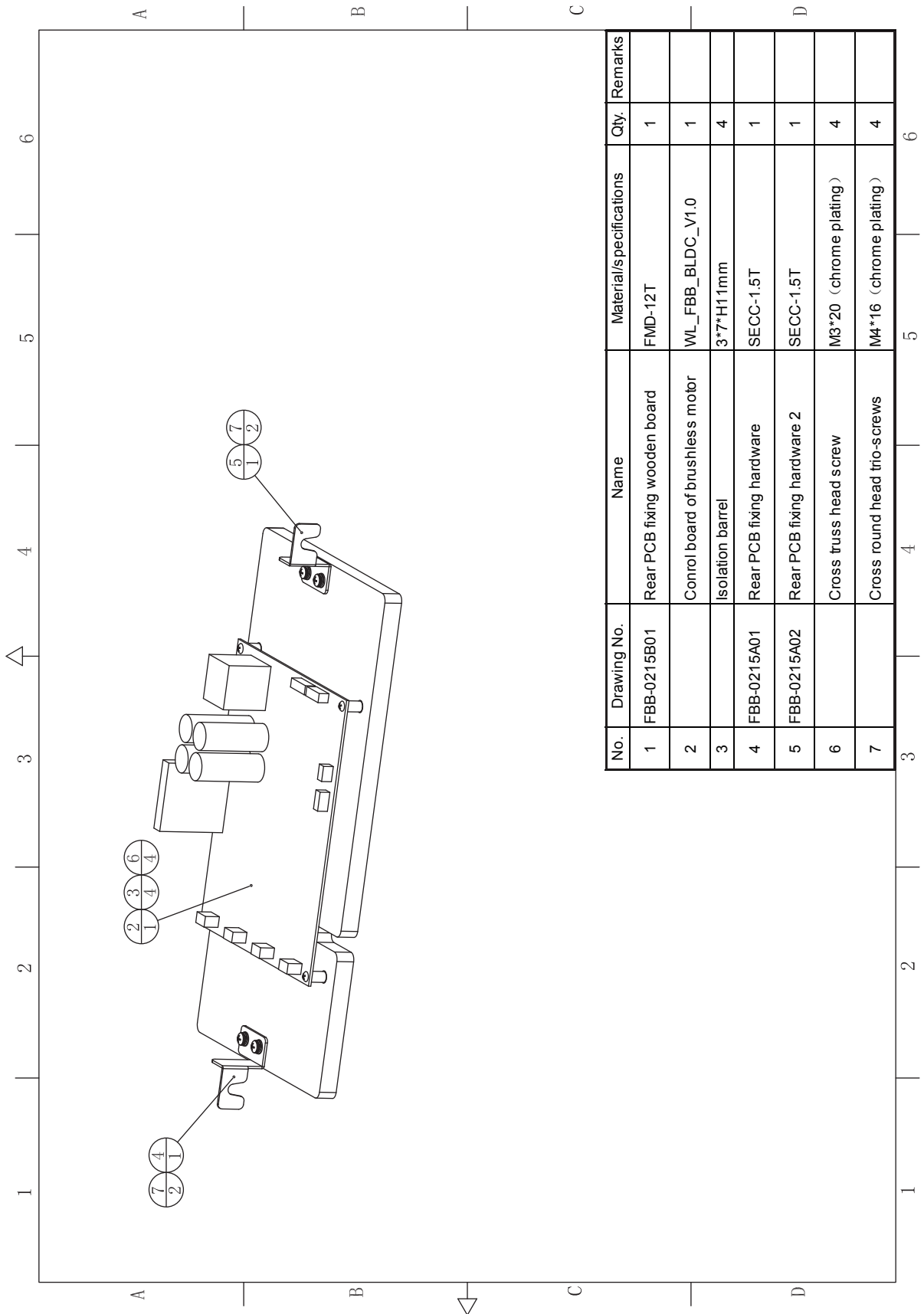
6.4.2.6 Lower assembly of gift frame



6.4.3 Transformer assembly

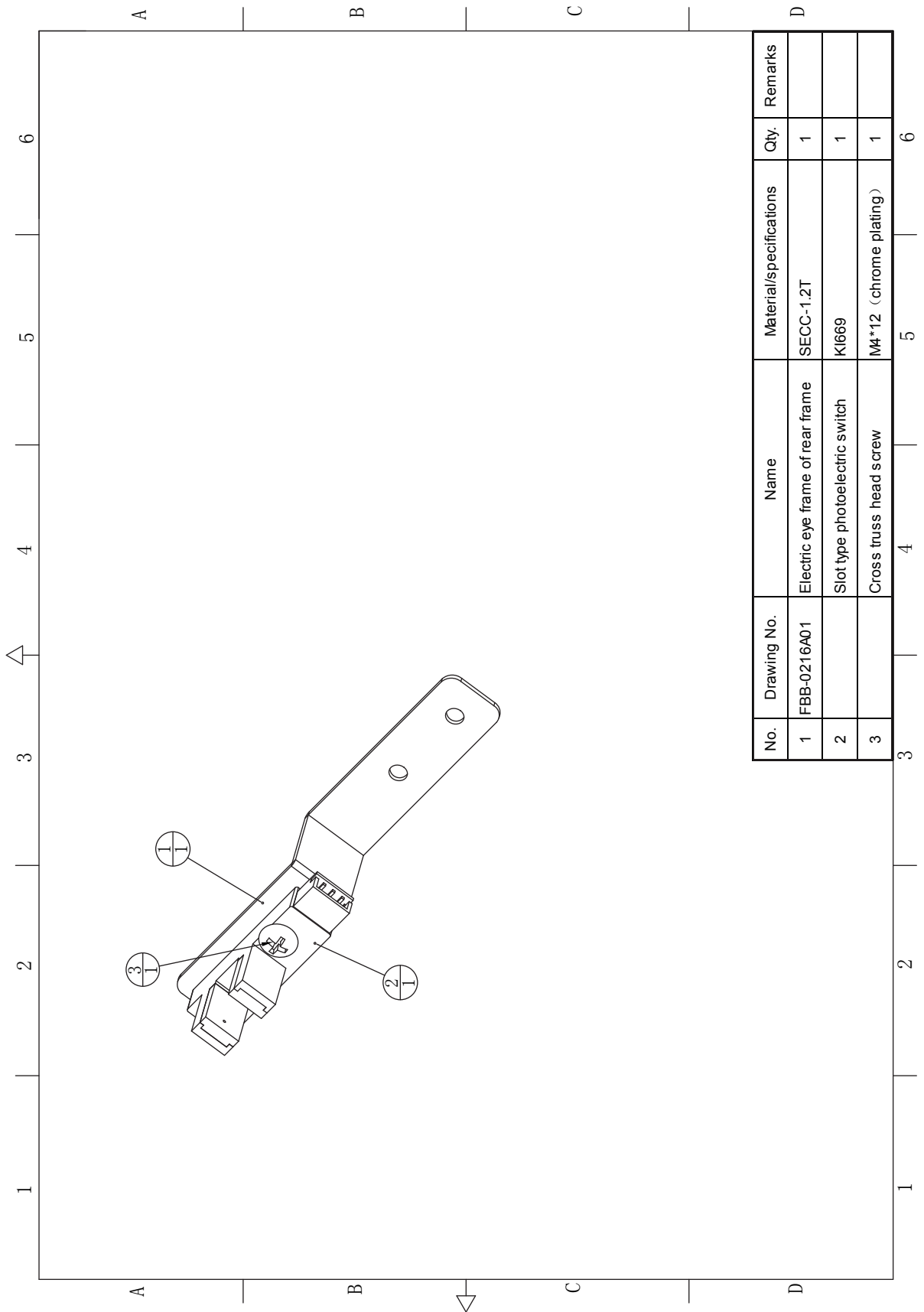


6.4.4 Control board assembly of brushless motor

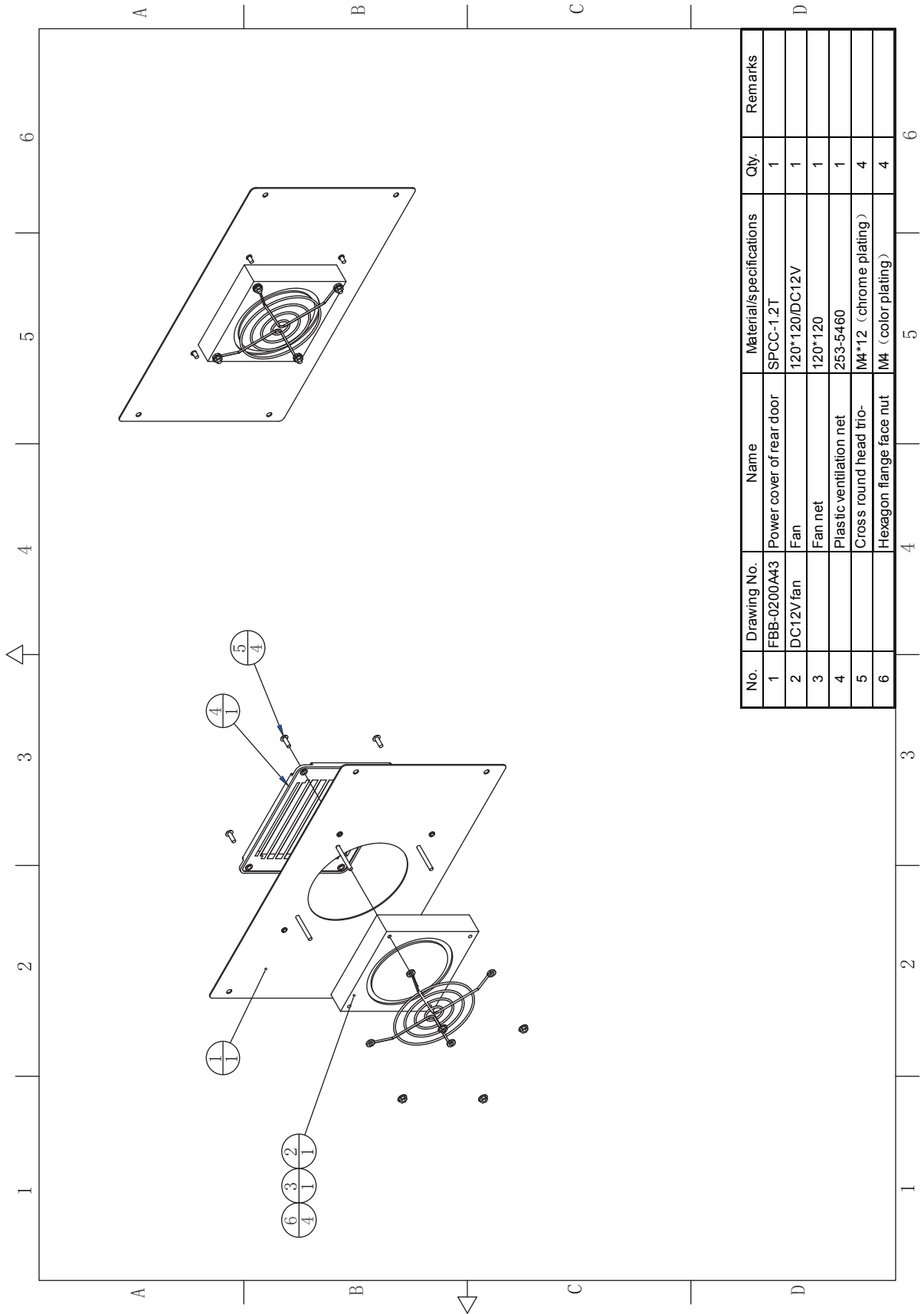


No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-0215B01	Rear PCB fixing wooden board	FMD-12T	1	
2		Control board of brushless motor	WL_FBB_BLDC_V1.0	1	
3		Isolation barrel	3*7*H11mm	4	
4	FBB-0215A01	Rear PCB fixing hardware	SECC-1.5T	1	
5	FBB-0215A02	Rear PCB fixing hardware 2	SECC-1.5T	1	
6		Cross truss head screw	M3*20 (chrome plating)	4	
7		Cross round head trio-screws	M4*16 (chrome plating)	4	

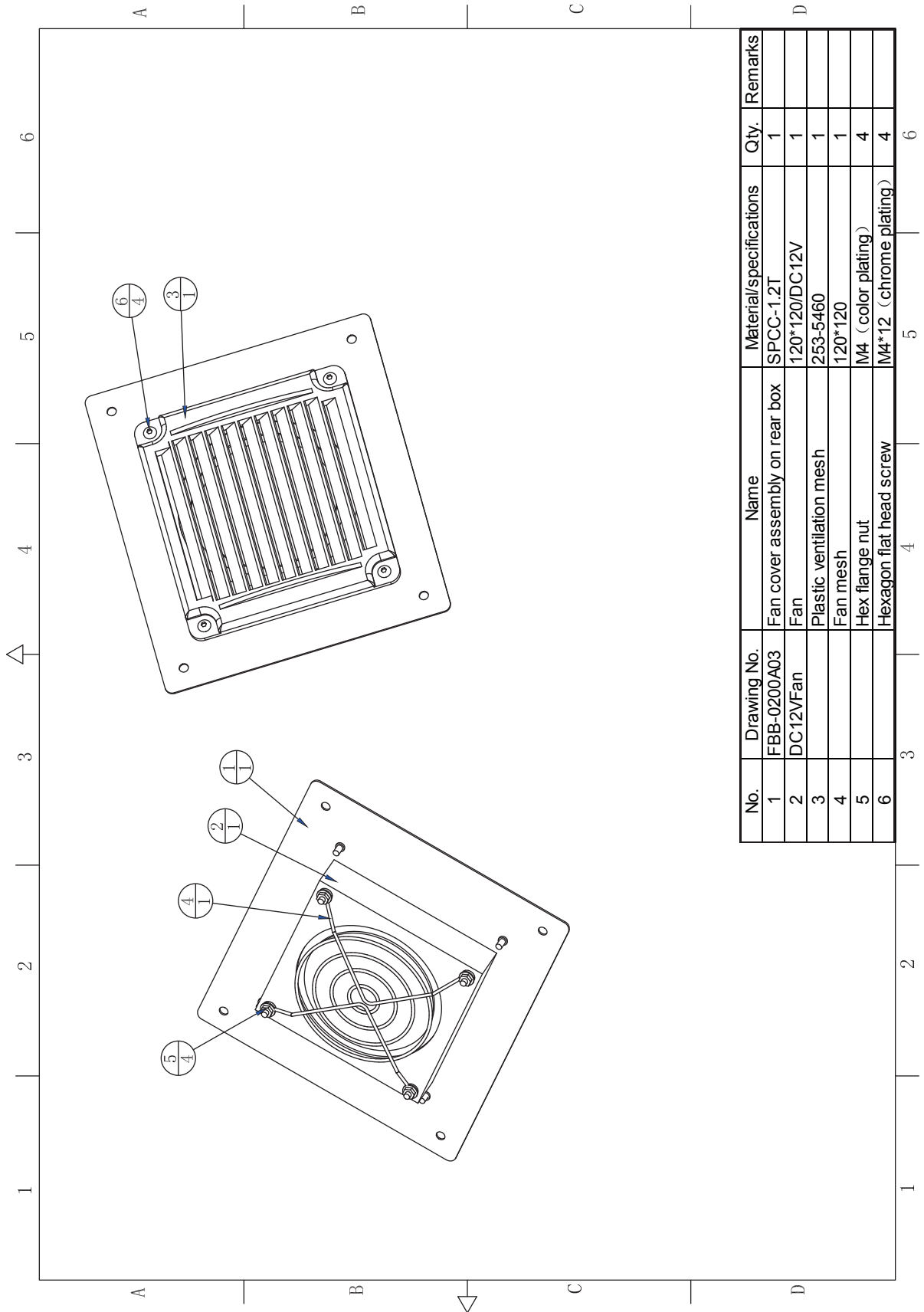
6.4.5 Electric eye assembly of gift frame



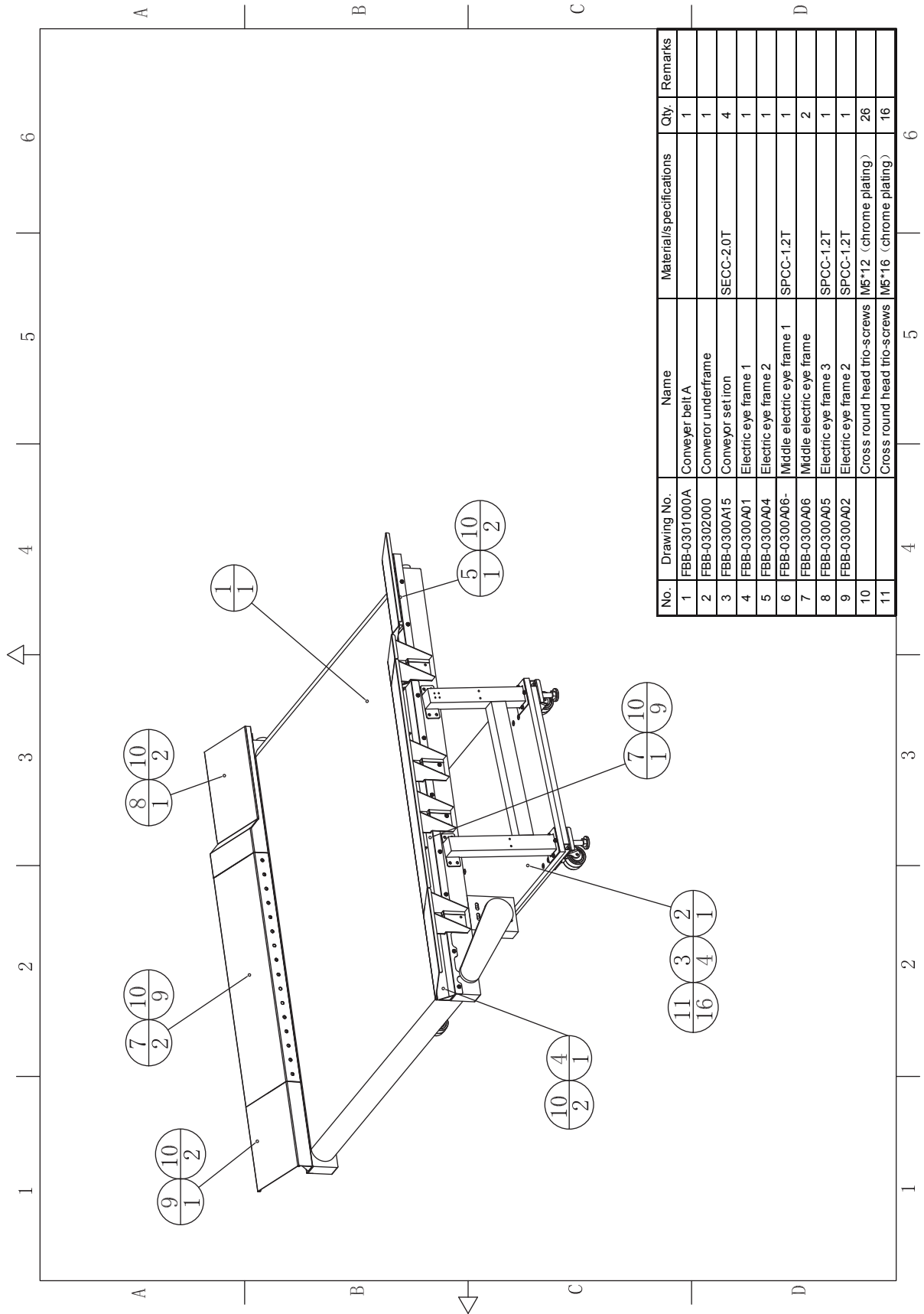
6.4.6 Rear cover assembly of power



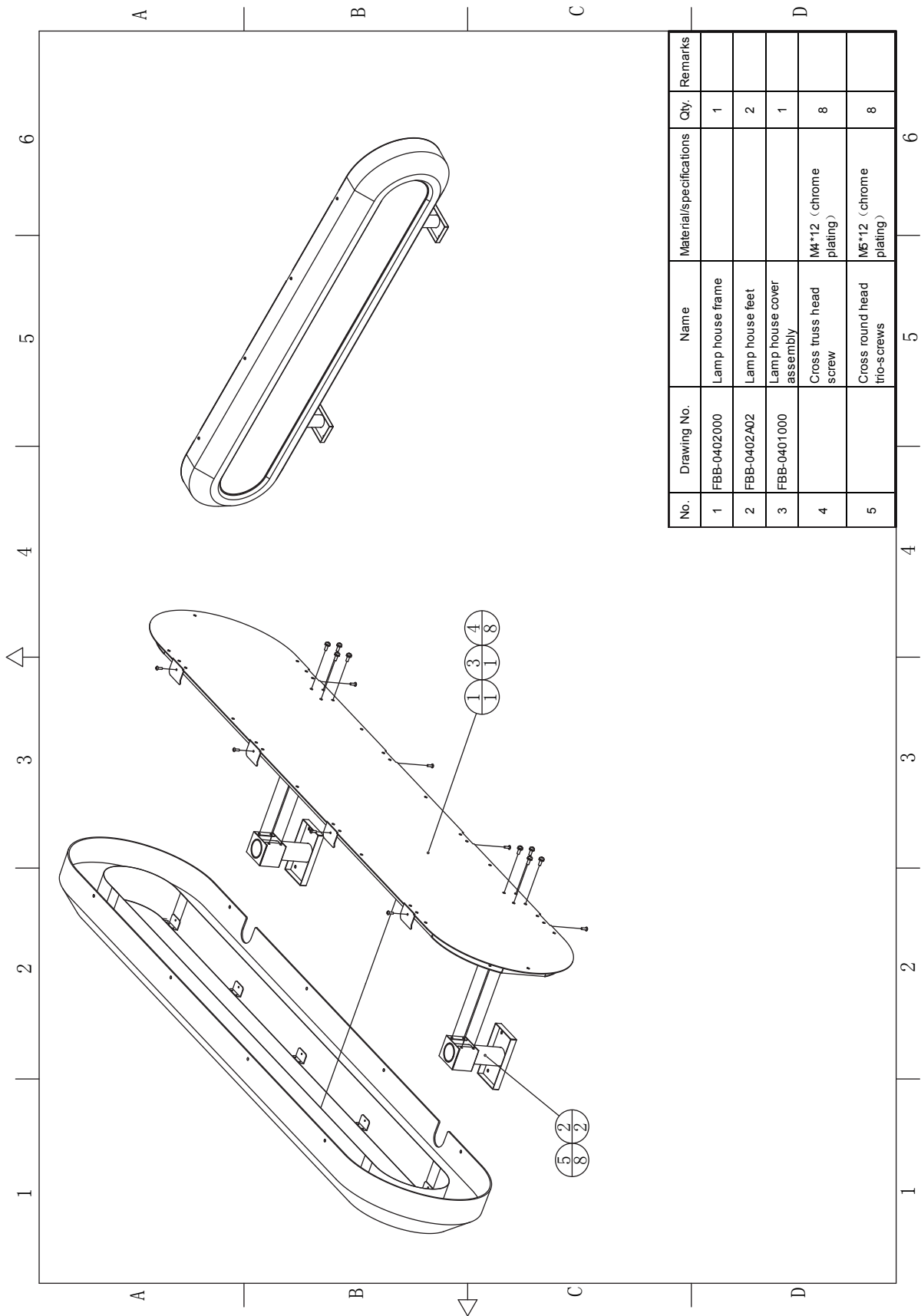
6.4.7 Fan cover assembly on rear box



6.5 Conveyor assembly

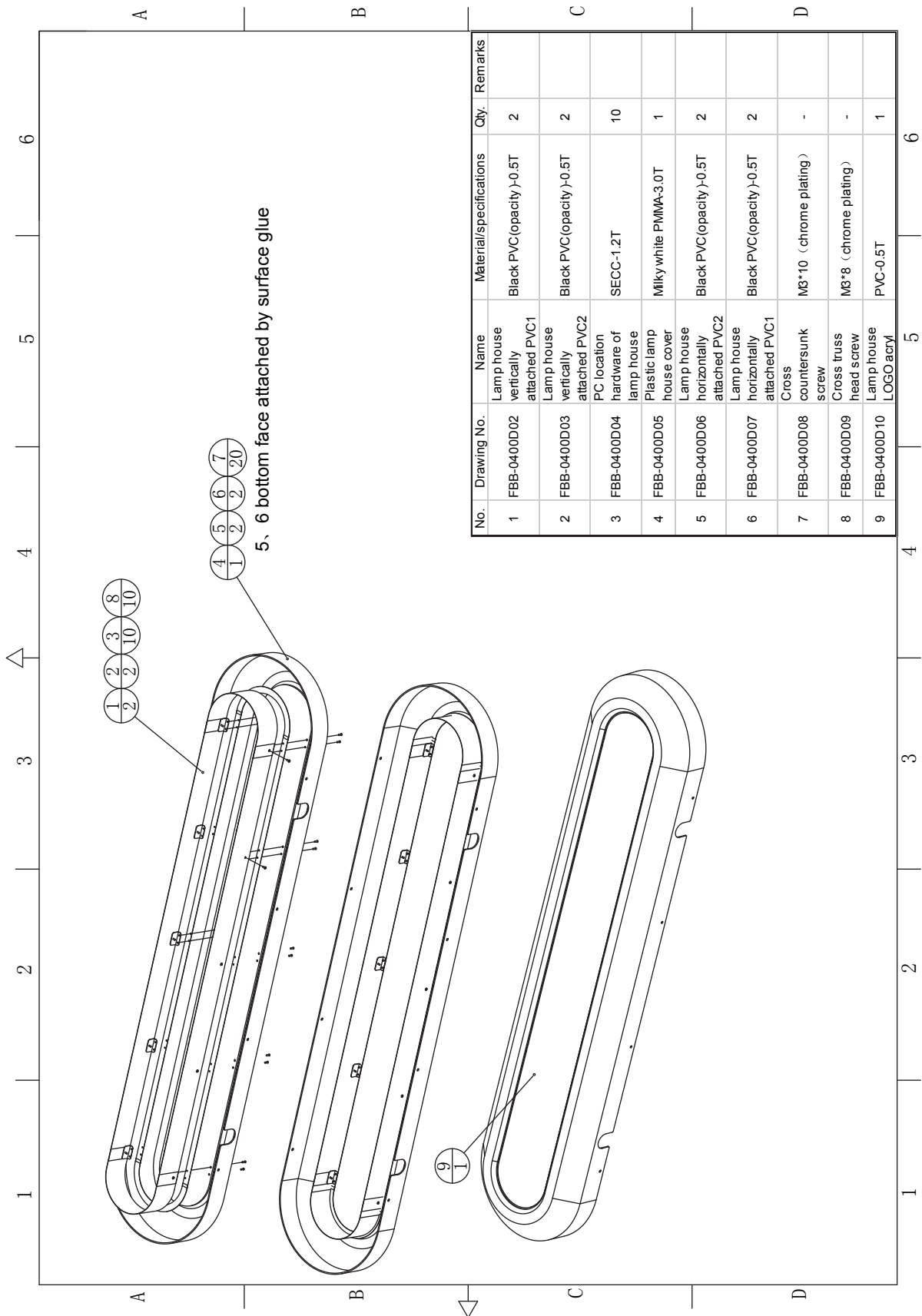


6.6 Lamp house assembly



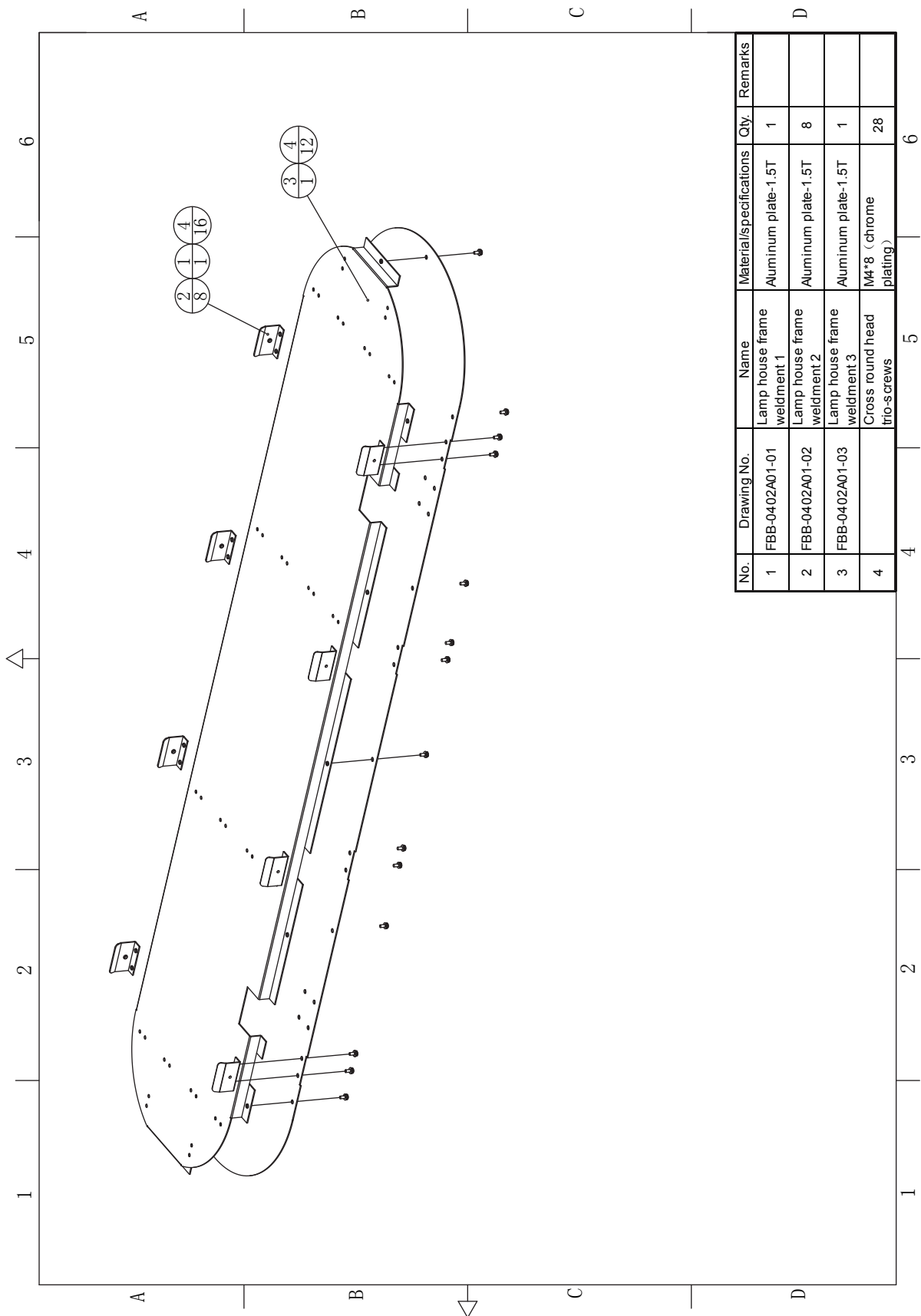
No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBF-0402000	Lamp house frame		1	
2	FBF-0402A02	Lamp house feet		2	
3	FBF-0401000	Lamp house cover assembly		1	
4		Cross truss head screw	M4*12 (chrome plating)	8	
5		Cross round head trio-screws	M5*12 (chrome plating)	8	

6.6.1 Lamp house cover assembly



No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-0400D02	Lamp house vertically attached PVC1	Black PVC(opacity)>0.5T	2	
2	FBB-0400D03	Lamp house vertically attached PVC2	Black PVC(opacity)>0.5T	2	
3	FBB-0400D04	PC location hardware of lamp house	SECC-1.2T	10	
4	FBB-0400D05	Plastic lamp house cover	Milky white PMMA-3.0T	1	
5	FBB-0400D06	Lamp house horizontally attached PVC2	Black PVC(opacity)>0.5T	2	
6	FBB-0400D07	Lamp house horizontally attached PVC1	Black PVC(opacity)>0.5T	2	
7	FBB-0400D08	Cross countersunk screw	M3*10 (chrome plating)	-	
8	FBB-0400D09	Cross truss head screw	M3*8 (chrome plating)	-	
9	FBB-0400D10	Lamp house LOGO acryl	PVC-0.5T	1	

6.6.2 Lamp house frame

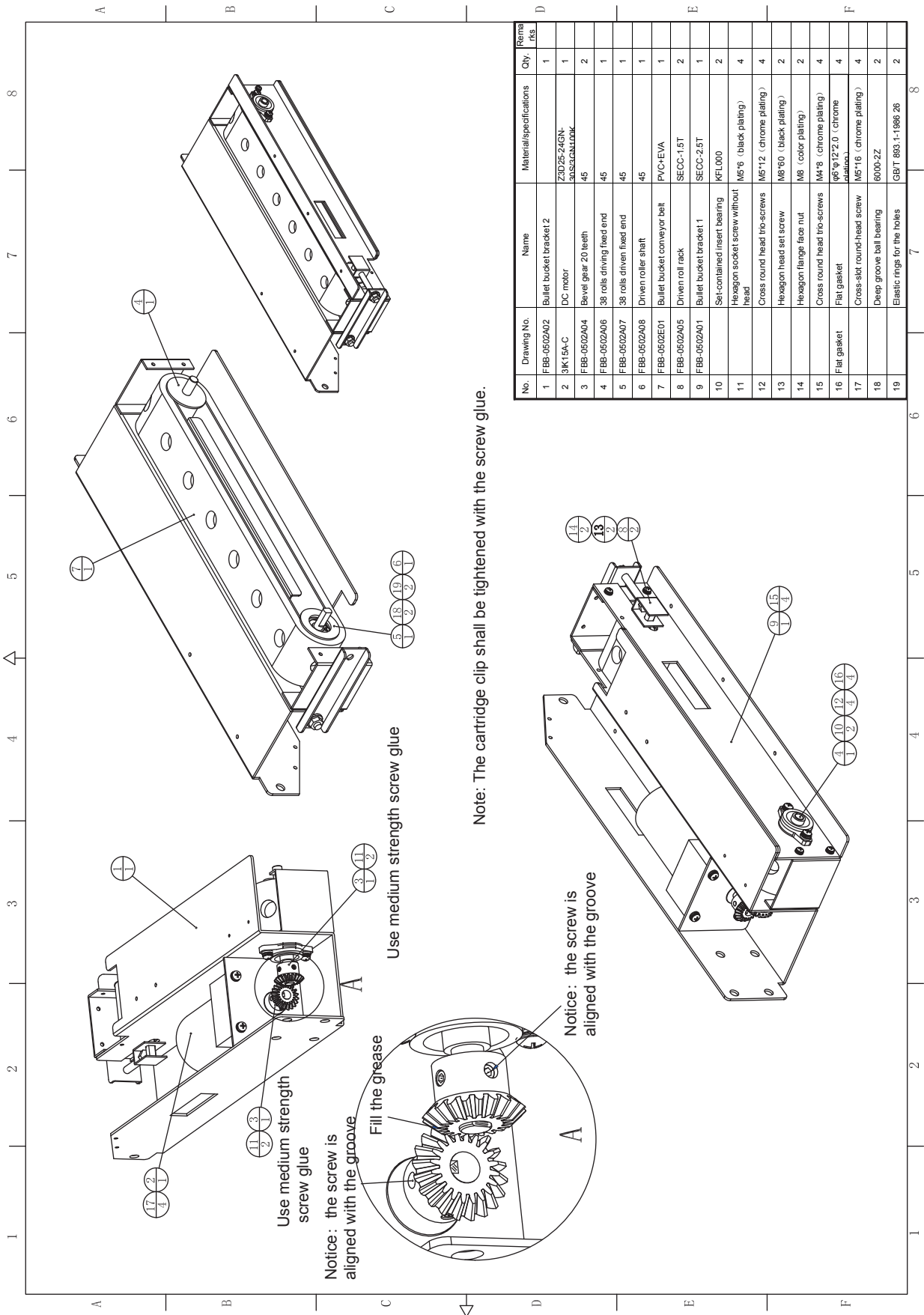


6.7 Bullet selling machine assembly

Note: The screws to fix the bullet-selling machines shall be tightened with the screw glue.

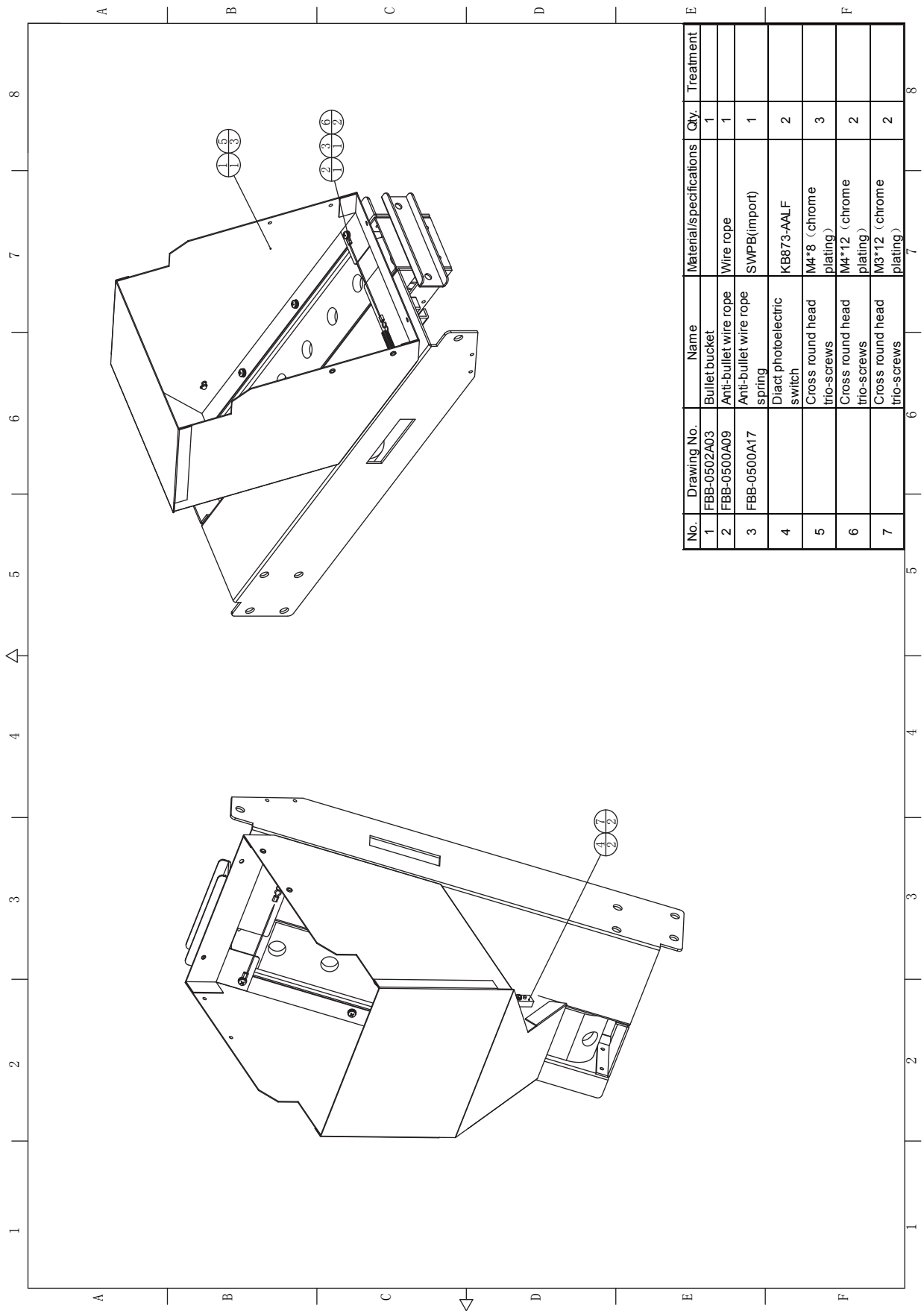
No.	Drawing No.	Name	Material/s specifications	Qty.	Remarks
1	FBB-0500A01	Bullet selling machine frame		1	
2	Bullet selling machine PCB2	Digital displayboard WL_FBB_DIY_V1.0		1	
3	FBB-0500D01	Bullet selling machine acryl	PMMA-3.0T	1	
4	FBB-0500A02	Bullet box		1	
5	FBB-0500A03	Door of bullet selling machine		1	
6	FBB-0500D02	Bullet selling machine PVC	PVC-0.3T	1	
7	FBB-0500A06	Coin box weldment		1	
8	FBB-0500A07	Coil way		1	
9	FBB-0500A10	Bullet outlet box		1	
10	FBB-0500A12	Bullet bucket baffle 1	SECC-1.0T	1	
11	FBB-0500A13	Bullet bucket baffle 2	SECC-1.0T	2	
12	FBB-0500A15	External door cover of bullet output	SPCC-1.5T	1	
13	FBB-0500A11	Additional bullet door	SPCC-1.2T	1	
14	FBB-0500A18	Coin way 2		1	
15	Electric eye	Direct photoelectric switch	KB873-AALF	2	
16	FBB-0500A19	Anti-out bullet box	SECC-1.2T	1	
17	FBB-0502000	Bullet bucket as assembly		1	
18	FBB-0505000	Stopwatch frame as assembly		1	
19	FBB-0504000	Service panel as assembly		1	
20		Hexagon flange face nut	M4 (color plating)	14	
21		Cross round head Itrio-screws	M4*8 (chrome plating)	10	
22		Cross round head Itrio-screws	M3*8 (chrome plating)	4	
23		Hexagon socket truss head screw	M4*12 (chrome plating)	6	
24		Cross round head Itrio-screws	M3*12 (chrome plating)	2	
25		Hexagon flange face nut	M8 (color plating)	3	

6.7.1 Bullet bucket assembly 1/2



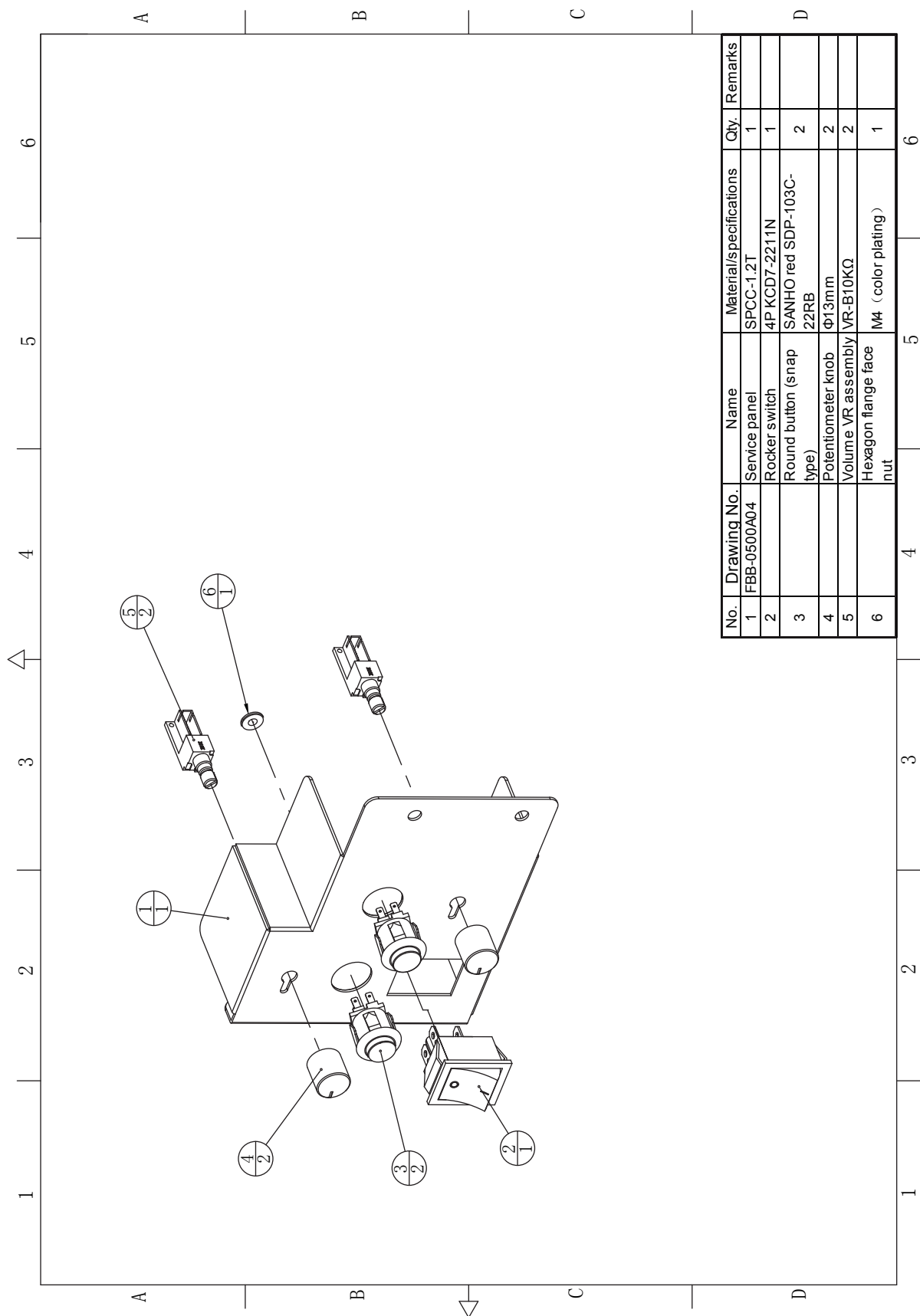
No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBF-0502A02	Bullet bucket bracket 2		1	
2	3K15A-C	DC motor	ZD025-24GN-303SGN100K	1	
3	FBF-0502A04	Bevel gear 20 teeth	45	2	
4	FBF-0502A06	38 rolls driving fixed end	45	1	
5	FBF-0502A07	38 rolls driven fixed end	45	1	
6	FBF-0502A08	Driven roller shaft	45	1	
7	FBF-0502E01	Bullet bucket conveyor belt	PVC+EVA	1	
8	FBF-0502A05	Driven roll rack	SECC-1.5T	2	
9	FBF-0502A01	Bullet bucket bracket 1	SECC-2.5T	1	
10		Self-contained insert bearing	KFL000	2	
11		Hexagon socket screw without head	M5*6 (black plating)	4	
12		Cross round head tri-screws	M5*12 (chrome plating)	4	
13		Hexagon head set screw	M8*60 (black plating)	2	
14		Hexagon flange face nut	M8 (color plating)	2	
15		Cross round head tri-screws	M4*8 (chrome plating)	4	
16	Flat gasket	Flat gasket	M5*12*2.0 (chrome plating)	4	
17	Cross-slit round-head screw	Cross-slit round-head screw	M5*16 (chrome plating)	4	
18	Deep groove ball bearing	Deep groove ball bearing	6000-3Z	2	
19		Elastic rings for the holes	GB/T 863.1-1986 2B	2	

Bullet bucket assembly 2/2



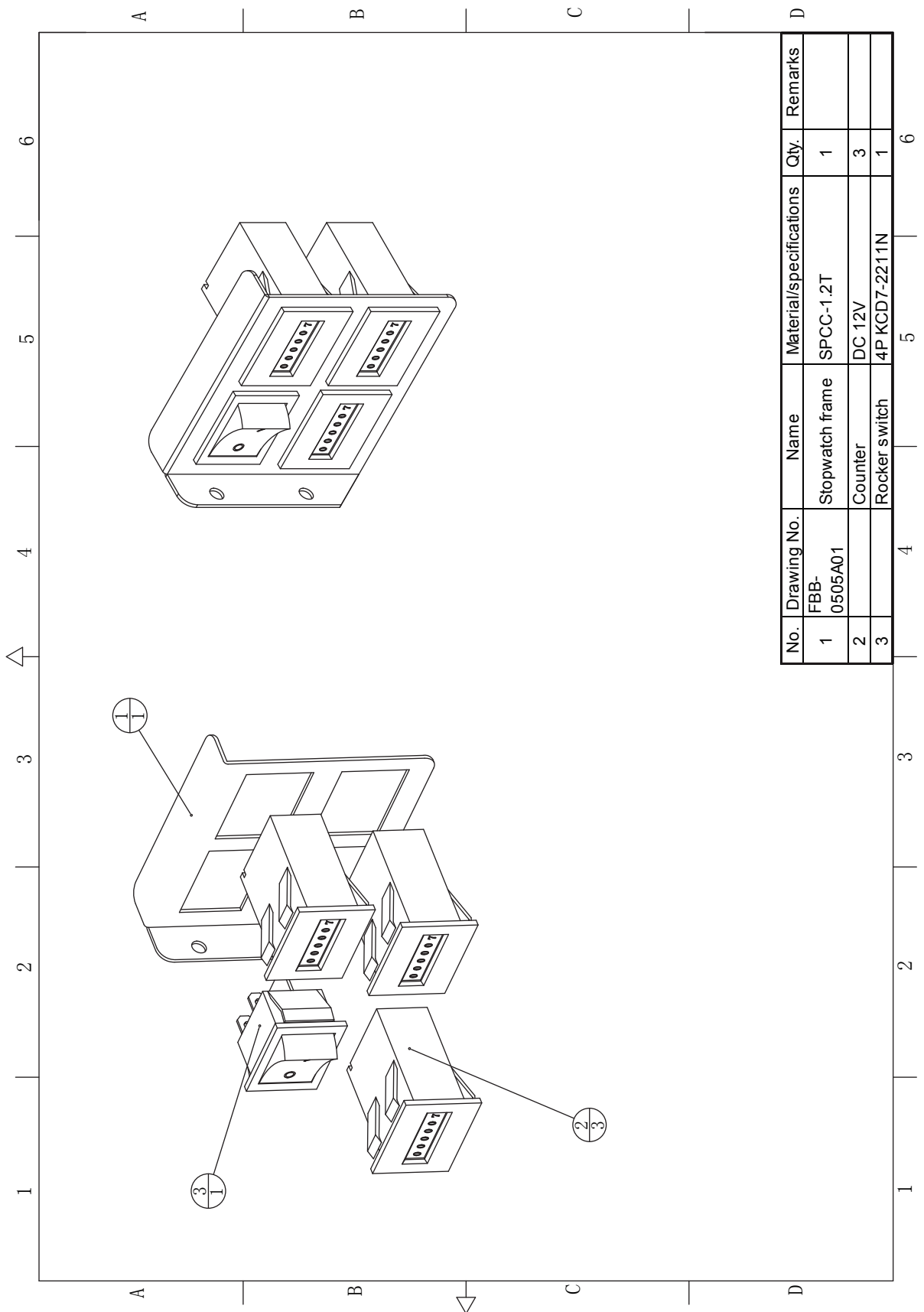
No.	Drawing No.	Name	Material/specifications	Qty.	Treatment
1	FBF-0502A03	Bullet bucket		1	
2	FBF-0500A09	Anti-bullet wire rope	Wire rope	1	
3	FBF-0500A17	Anti-bullet wire rope spring	SWPB(import)	1	
4		Diact photoelectric switch	KB873-AALF	2	
5		Cross round head trio-screws	M4*8 (chrome plating)	3	
6		Cross round head trio-screws	M4*12 (chrome plating)	2	
7		Cross round head trio-screws	M3*12 (chrome plating)	2	

6.7.2 Service panel assembly



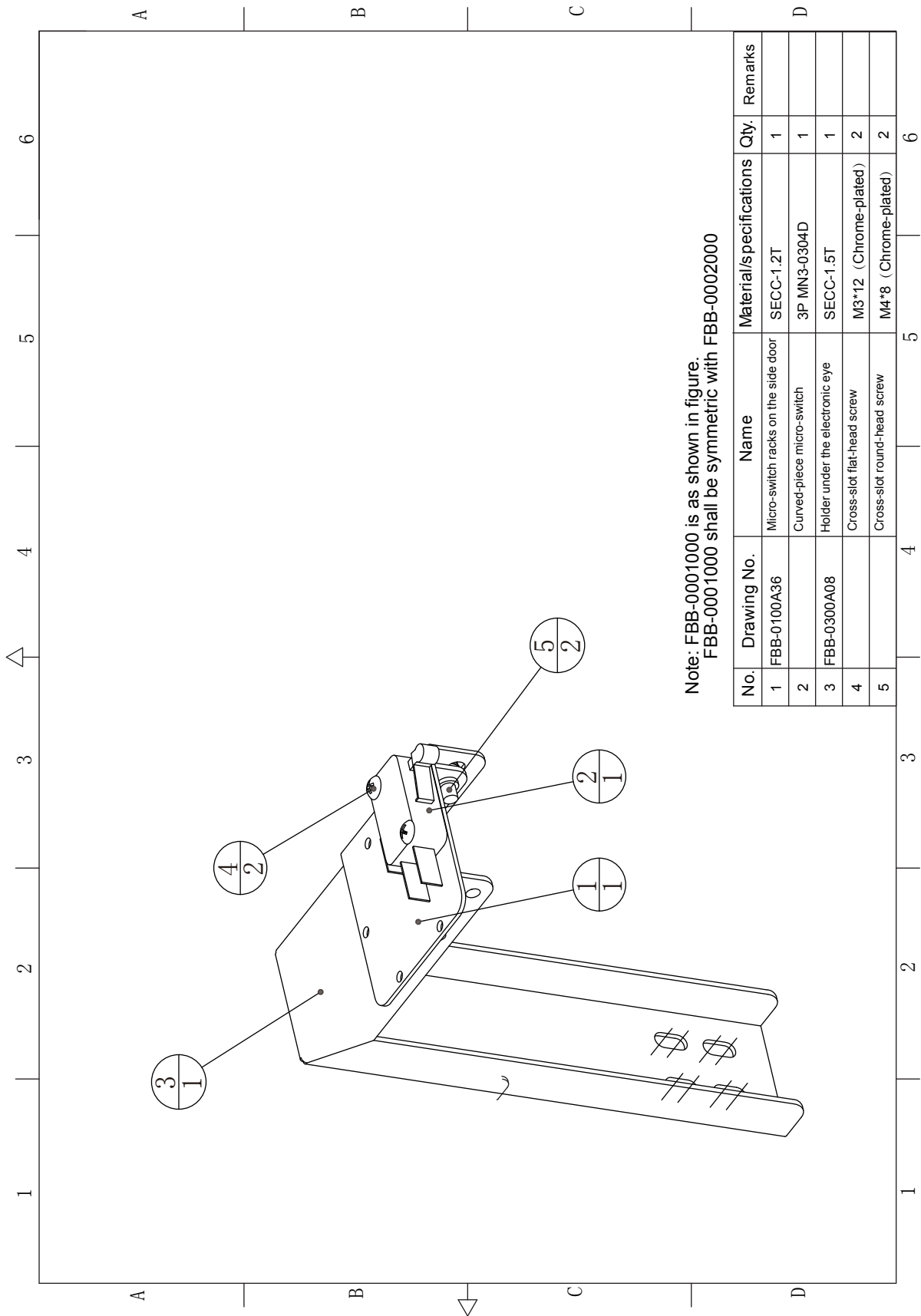
No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-0500A04	Service panel	SPCC-1.2T	1	
2		Rocker switch	4P KCD7-2211N	1	
3		Round button (snap type)	SANHO red SDP-103C-22RB	2	
4		Potentiometer knob	Φ13mm	2	
5		Volume VR assembly	VR-B10KΩ	2	
6		Hexagon flange face nut	M4 (color plating)	1	

6.7.3 Stopwatch frame assembly



No.	Drawing No.	Name	Material/specifications	Qty.	Remarks
1	FBB-0505A01	Stopwatch frame	SPCC-1.2T	1	
2		Counter	DC 12V	3	
3		Rocker switch	4P KCD7-2211N	1	
				5	
				6	

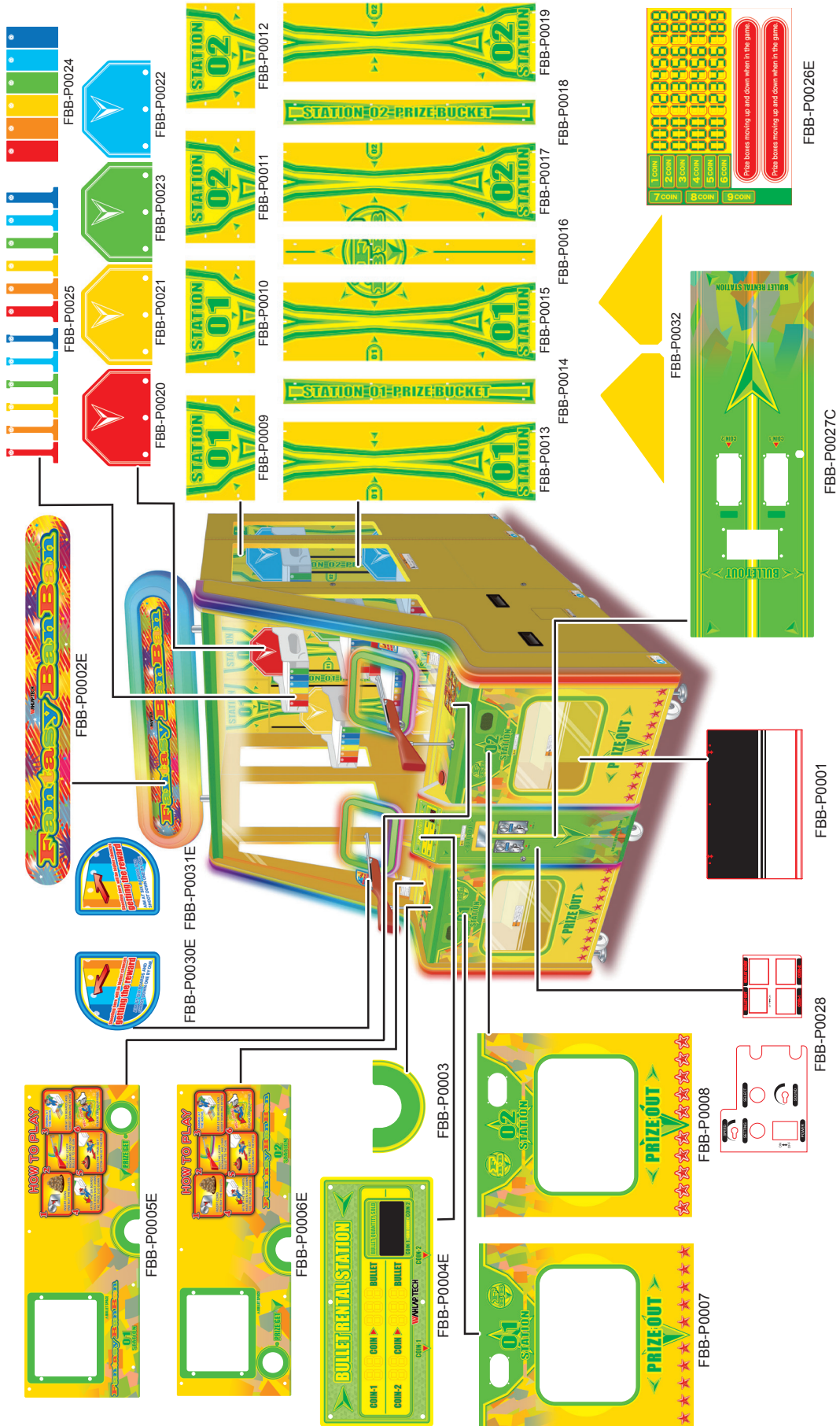
6.8 Right door switch block (shall be symmetric with Left)



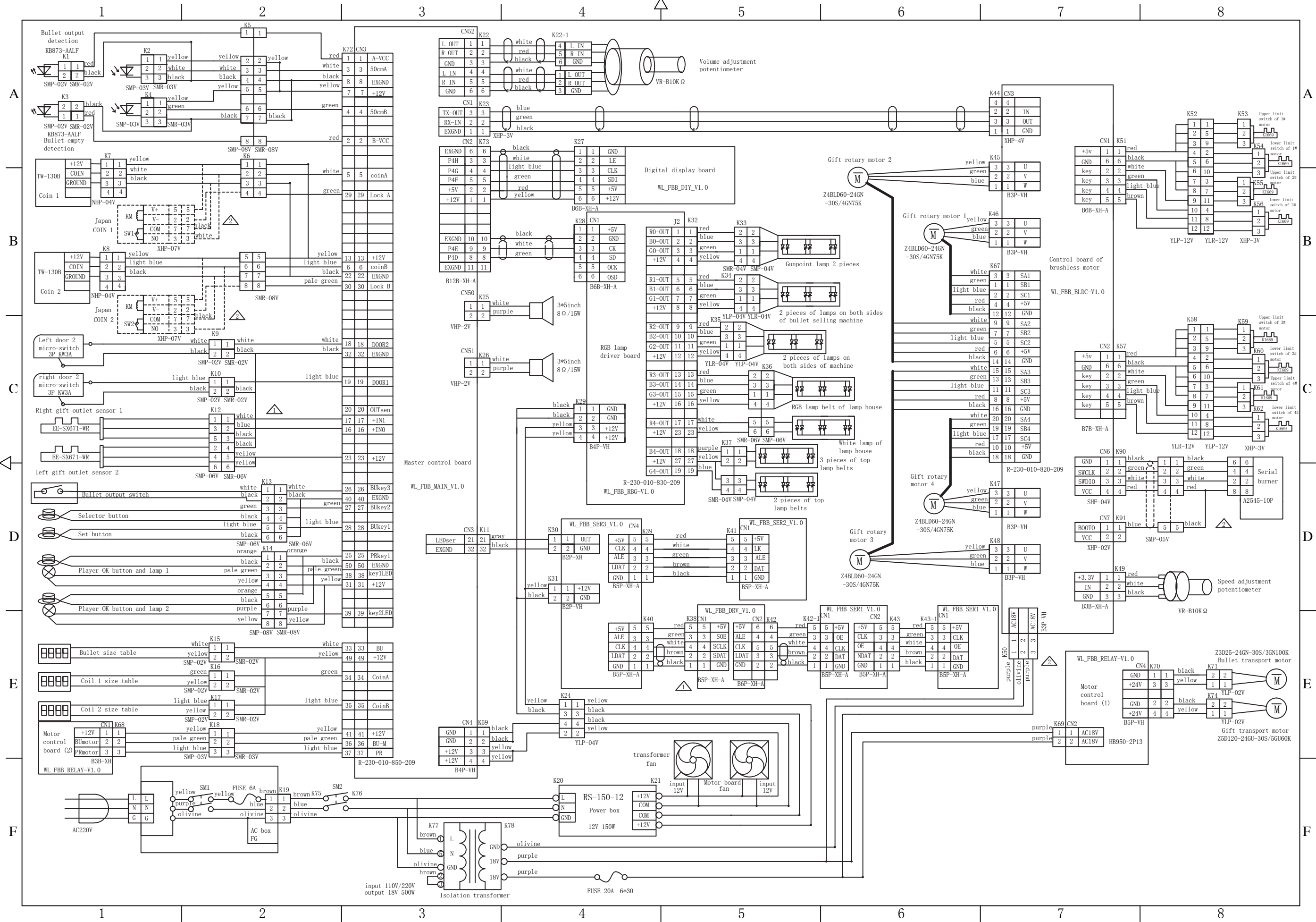
Note: FBB-0001000 is as shown in figure.
FBB-0001000 shall be symmetric with FBB-0002000

No.	Drawing No.	Name	Material/s pecifications	Qty.	Remarks
1	FBB-0100A36	Micro-switch racks on the side door	SECC-1.2T	1	
2		Curved-piece micro-switch	3P MN3-0304D	1	
3	FBB-0300A08	Holder under the electronic eye	SECC-1.5T	1	
4		Cross-slot flat-head screw	M3*12 (Chrome-plated)	2	
5		Cross-slot round-head screw	M4*8 (Chrome-plated)	2	
				6	

7. Printing Pattern



8. Wiring Diagram



9. After-sales Service

Honorable customer !

Thank you for purchasing our product !

For your benefits, if you find any fault during the operation of the product, please use a technician who obtains a certificate related to mechanical engineering, electrical engineering or who engages in routine maintenance, repair and management of amusement machine to check the machine and inform us the fault in a timely manner. Our company will take corresponding measures to assist you to solve the problem promptly.

NOTICE: Do not dismount or replace any part of the machine without our technician's permission, or you will solely undertake the consequence !

Please pay attention to our contact information as follow:

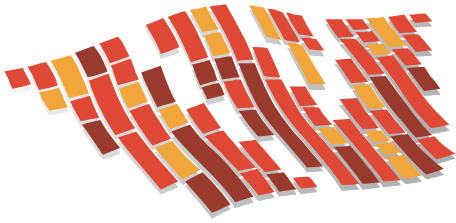
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※ The specifications and operation instructions in this Manual are subject to change without notice for reasons such as performance.