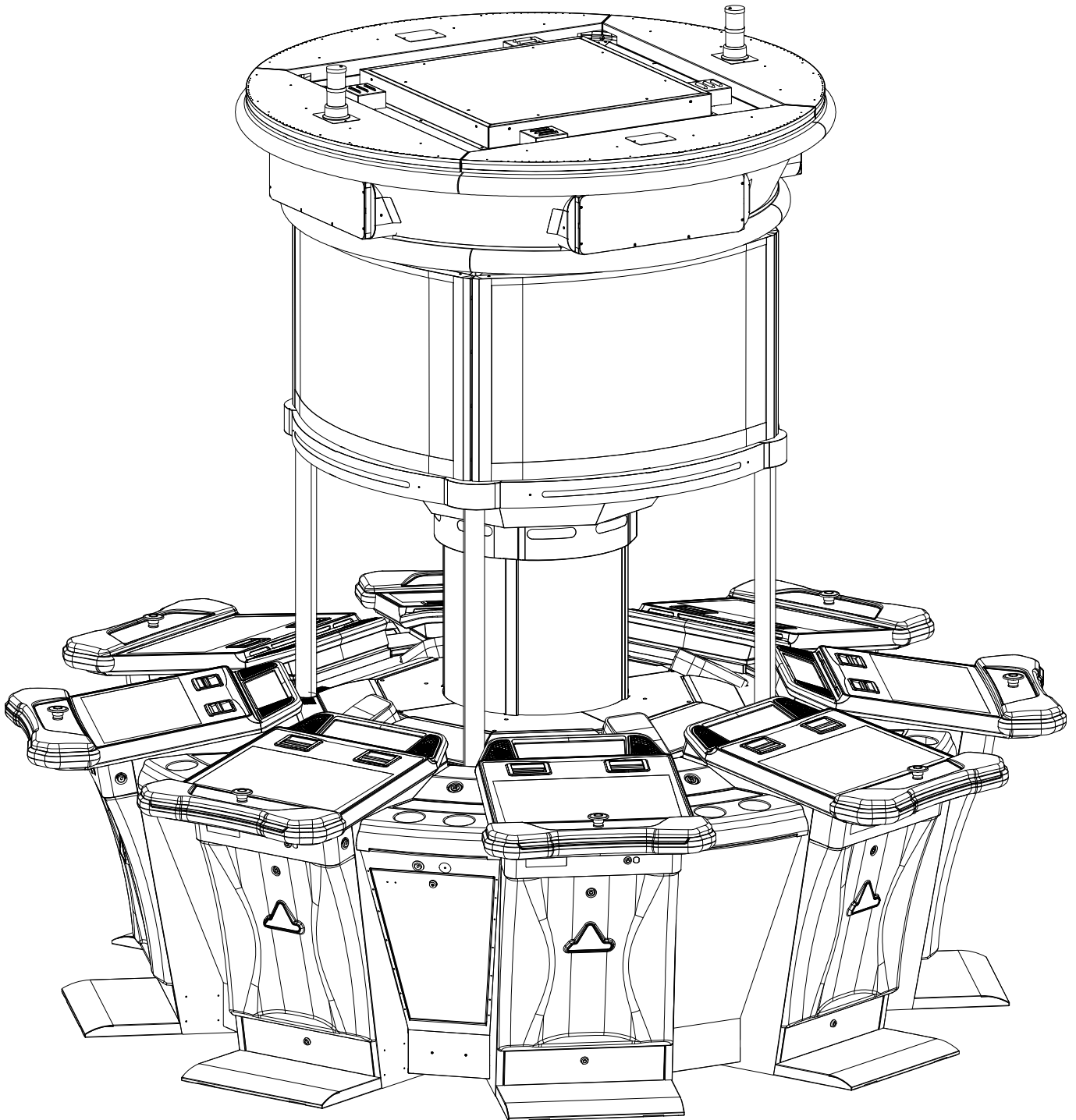


DRAGON SIC BO

High PID ver.



Important notice

ATTENTION!

It is necessary to periodically clean the Wheel Bank, Dice Field etc., according to the prescribed procedure.

It is also strongly recommended to replace the Ball (for Roulette), Clapper (pointer for Big Wheel or Wheel of Wealth) and Dice (for Sic Bo and Craps) if these items are suspected to have developed any abrasions or damage, and to replace these items when their defined usage period has expired.

Furthermore, if abnormal behavior of the machine is observed despite adherence to the prescribed maintenance procedures previously described, please immediately contact the Customer Technical Support or your Sales Representative/Representative Agent. Please notice that failure to adhere to the aforementioned prescribed procedures could result in machine trouble that may not be covered under the conditions of the guarantee.

For any questions regarding maintenance, machine check-up, or the expendable replacement parts, please contact the Customer Technical Support or your Sales Representative/Representative Agent in your area.

重要通知

Wheel Bank、Dice Field 等部件需要按照指定方法定期的进行清理。

除了因为磨损或者损坏进行更换以外，我们也非常建议您在使用了超出规定时间后，定期的更换小球(轮盘)，拍板，骰子(骰宝，花旗骰)等部件。

并且，当进行上述维护步骤时如果游戏机有任何异常时，请迅速与我们的营销人员，服务窗口，供应商取得联系。如果没有按照上述规定的步骤而引起游戏机发生任何的故障问题，不包含在保修之内。请见谅。

关于本公司游戏机的整備，点检以及消化品的交换，如果您有任何疑问，请联系我们的销售人员，服务窗口或者您所在区域的代理商。

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General Information

Introduction

This manual is intended to provide information regarding machine operation for operators, owners, and qualified maintenance/service personnel.

It is strongly recommended that this manual be read thoroughly before starting up the machine. Please keep this manual at hand to be used whenever necessary.

Technical Support

INTERBLOCK Luxury Gaming Products d.d., INTERBLOCK ASIA PACIFIC Pty Ltd, INTERBLOCK CASINO PRODUCTS CANADA Inc., INTERBLOCK ASIA PACIFIC Pty Ltd, INTERBLOCK USA L.C. are all dedicated to providing high quality service and maintenance. Please feel free to contact your local distributor office at any time. (See back page for contact listings)

Copyright

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This manual may be subject to change without prior notice.

Safety Instructions

Definition of Safety Vocabulary

The words DANGER, WARNING, and CAUTION are used in this manual to indicate hazard levels.

DANGER!

The DANGER mark warns of immediate hazards, which WILL result in severe personnel injury or death.

WARNING!

The WARNING mark warns of immediate hazards, which may result in severe personnel injury or death.

CAUTION!

The CAUTION mark warns of hazards or unsafe practices, which may result in minor personnel injury or product/property damage.

CALL SERVICE IMMEDIATERY!

This message implies that the operator is recommended to contact the Customer Technical Support. (See back page for contact listings.)

NOTE:

The NOTE mark brings to attention important operation points.

Installation

WARNING!

To prevent an accident or a fire;

- ◇ Install the machine on flat, stable, well-constructed floor.
- ◇ Keep the machine away from direct sunlight.
- ◇ Keep the machine away from dust.
- ◇ Keep the machine away from water and other liquids.
- ◇ Do not install the machine outdoors.
- ◇ Keep the machine away from vibration.
- ◇ Keep the machine away from dangerous articles.
- ◇ Keep the machine away from disaster prevention facilities. (e.g. emergency exits/stairs, fire hydrants, fire extinguishers)
- ◇ **If the Projector is installed, please use the machine in an ambient with a temperature below 30°C. If the ambient temperature exceeds 30°C, the security function of the Projector may put it into a light off status.**

Replacement of Lithium Batteries

CAUTION!

Risk of Explosion.

When exchanging the lithium batteries, use an officially provided lithium battery.

Risk of Explosion if lithium battery is Replaced by an Incorrect type.

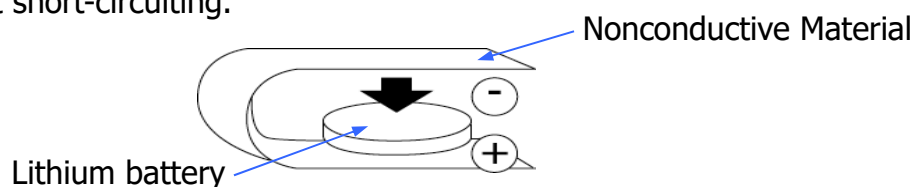
Disposal of Lithium Batteries

WARNING!

Risk of Injury or Fire.

Proper care is necessary with the disposal of lithium batteries. Improper disposal may result in the heating or ignition of the batteries, which may cause personal injury or fire. CR Coin Lithium Batteries contain Perchlorate material – special handling may apply.

Lithium batteries contain flammable substances (e.g. lithium metal and organic solvents). Electric power may remain in used batteries. Wrap the + and – electrodes with nonconductive material to prevent short-circuiting.



Environmental Specifications

Refer to "**Machine Specifications**".

Grounding

The machine must be grounded to prevent current leakage.



WARNING!

Risk of Electric Shock. The warranty is not valid for accidents (including failures) caused by improper grounding.

Others



WARNING!

The machine should never be modified in any way.

Modification may cause accident or failure.

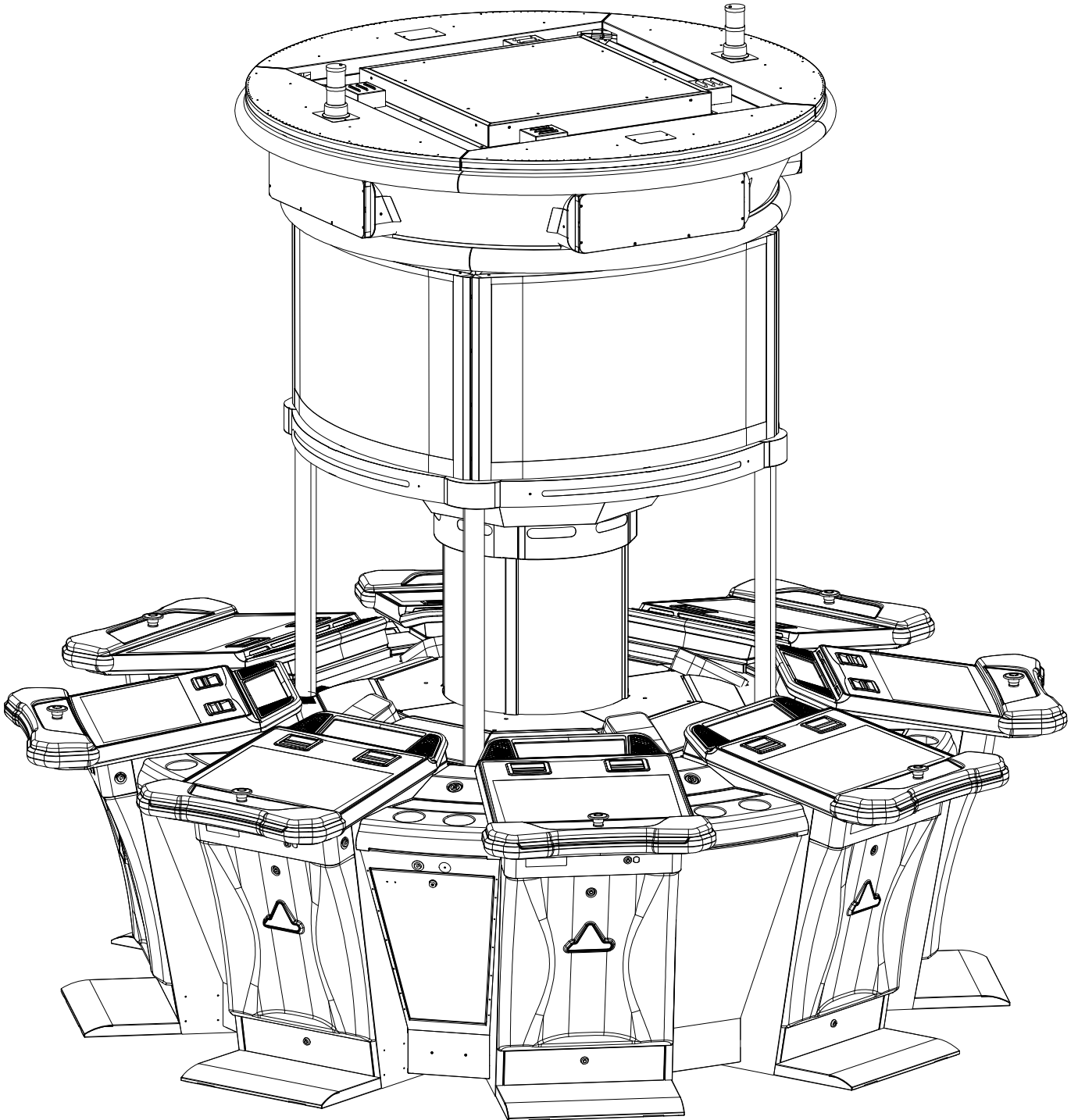
The warranty is not valid for accidents (including failures) caused by modification.

- ◇ Only qualified personnel shall assemble, install, maintain, inspect, and/or enact any troubleshooting measures to the machine.
- ◇ Do not sit, stand or put heavy objects on the machine. A dented machine may cause malfunctioning.
- ◇ When smoke and/or an unknown malfunction is detected, immediately turn off the power switches and then turn off the power source breakers in that order.
- ◇ Before servicing the machine, turn off the power switches to prevent electricity-related accidents and hazards.
- ◇ Never use chemical dusters, paint thinner, benzene, alcohol, or synthetic detergent for cleaning the machine. Damage may be caused to the machine surface.
- ◇ Electrostatic discharges may damage the internal components of the machine. Anti-static measures (e.g. touching a metal door knob, use of non-static gloves) are necessary when accessing the inside of the cabinet.
- ◇ This machine is for use in commercial areas. Use in residential areas is prohibited.

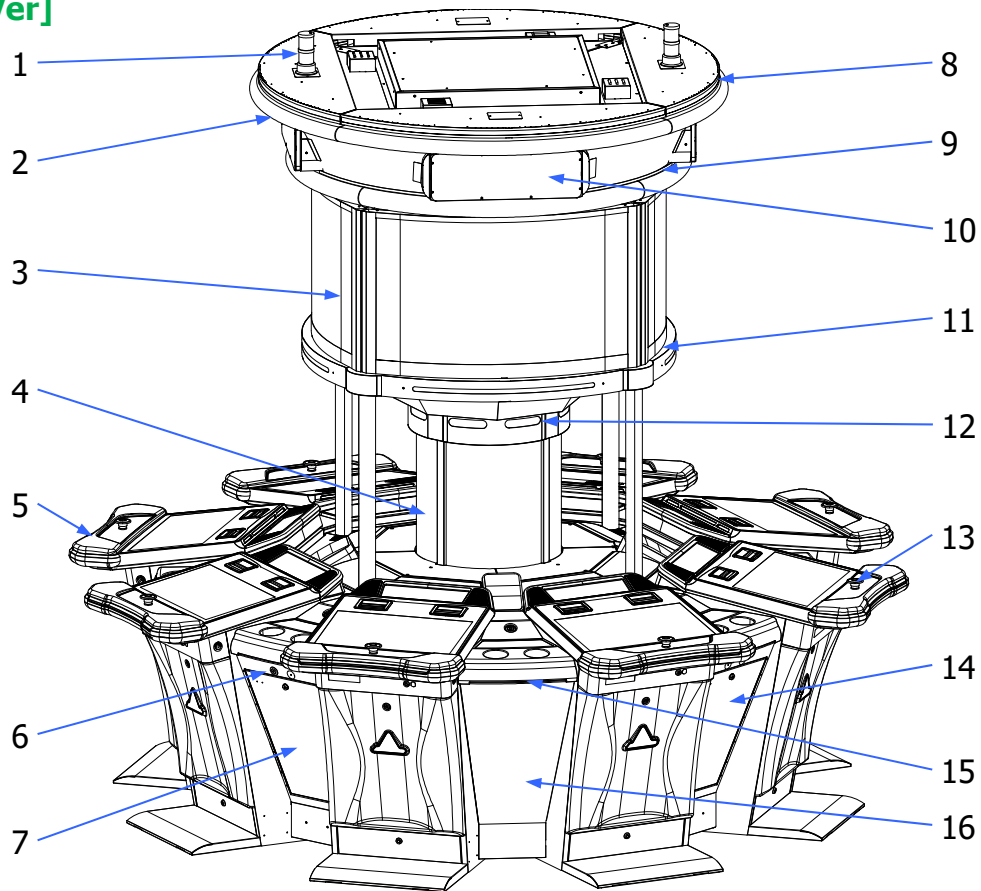
Chapter 1

Major Components

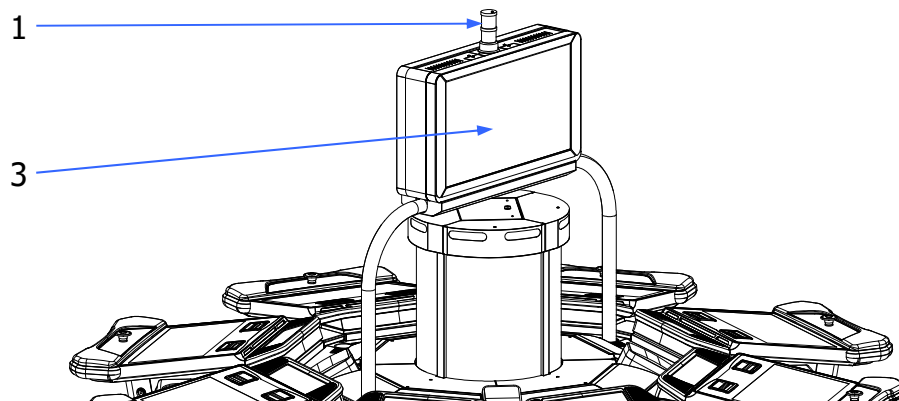
1. 1: Appearance of Whole Machine



1. 2: Outside View of Center Unit [High PID Ver]

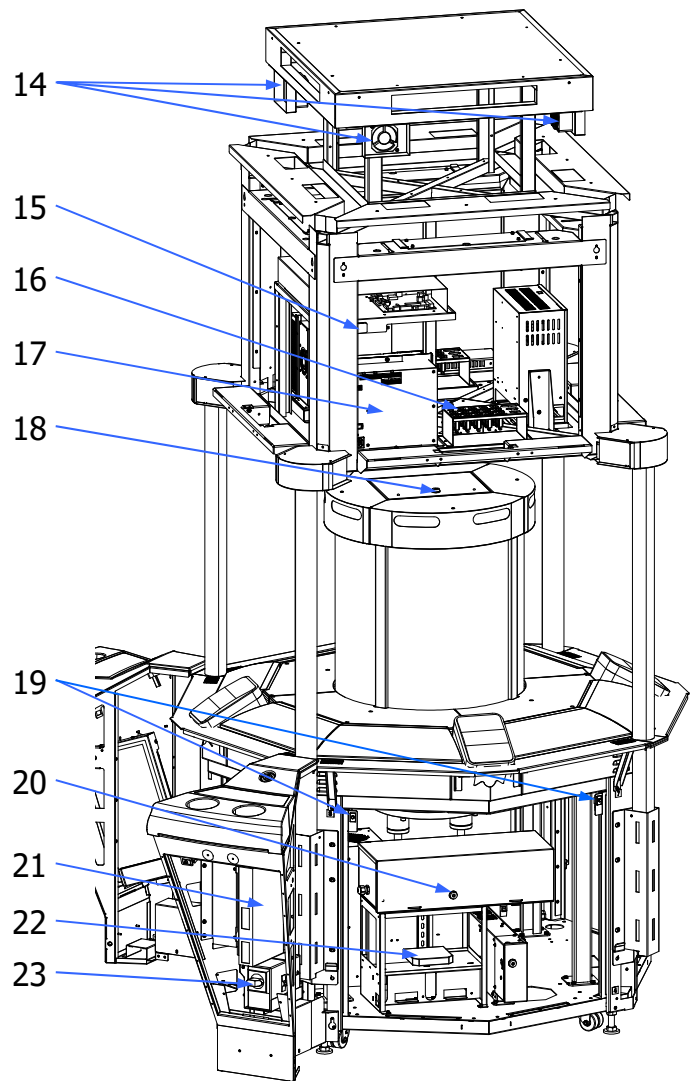
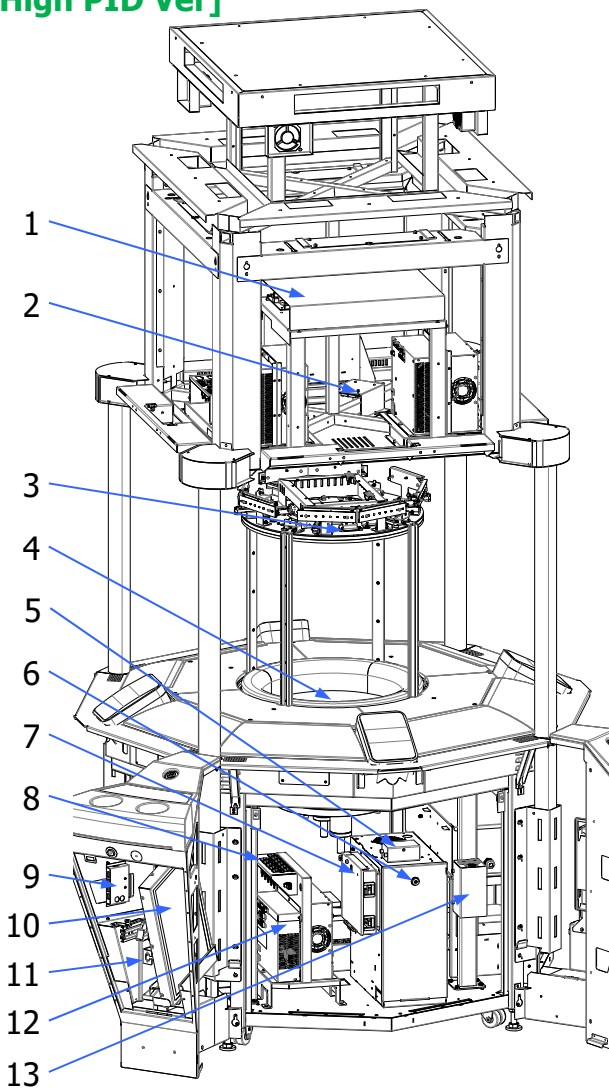


[Low PID Ver]



- | | | | |
|----|-----------------------|-----|--------------------------------|
| 1. | Tower Light(Optional) | 8. | Top Sign LED |
| 2. | Top Sign Unit | 9. | Relief LED |
| 3. | LCD Unit | 10. | Dot Matrix Unit |
| 4. | Center Unit | 11. | BTM Cover LED |
| 5. | Station | 12. | Head(Field Area) Cover LED |
| 6. | RESET/AUDIT Keyswitch | 13. | Shooter Button |
| 7. | Control Spacer Door | 14. | Pow Switch and HUB Spacer Door |
| | | 15. | Spacer LED |
| | | 16. | Spacer Unit |

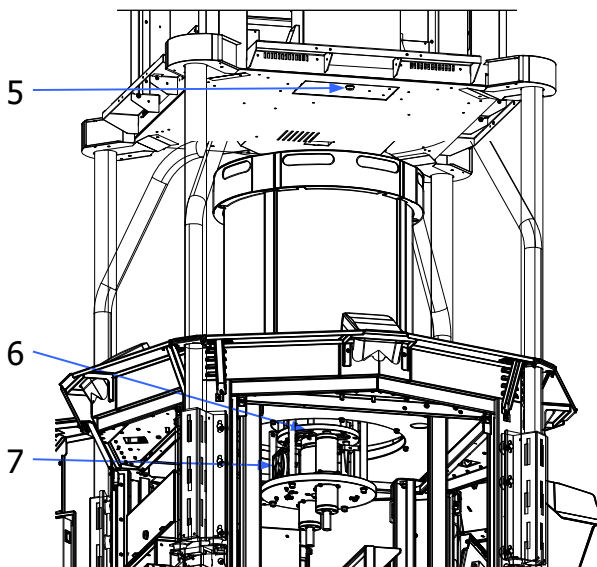
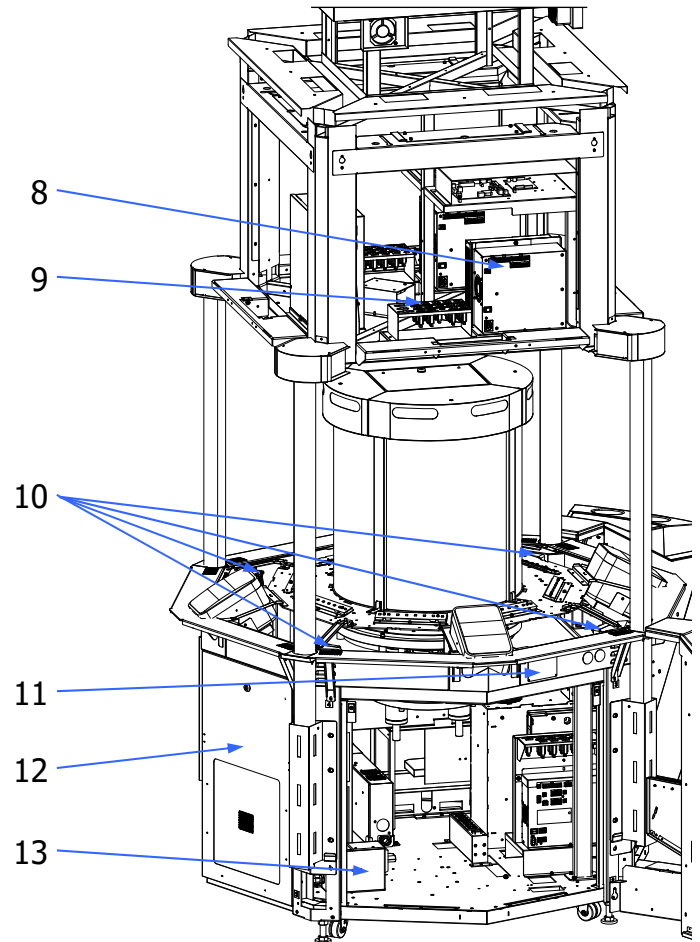
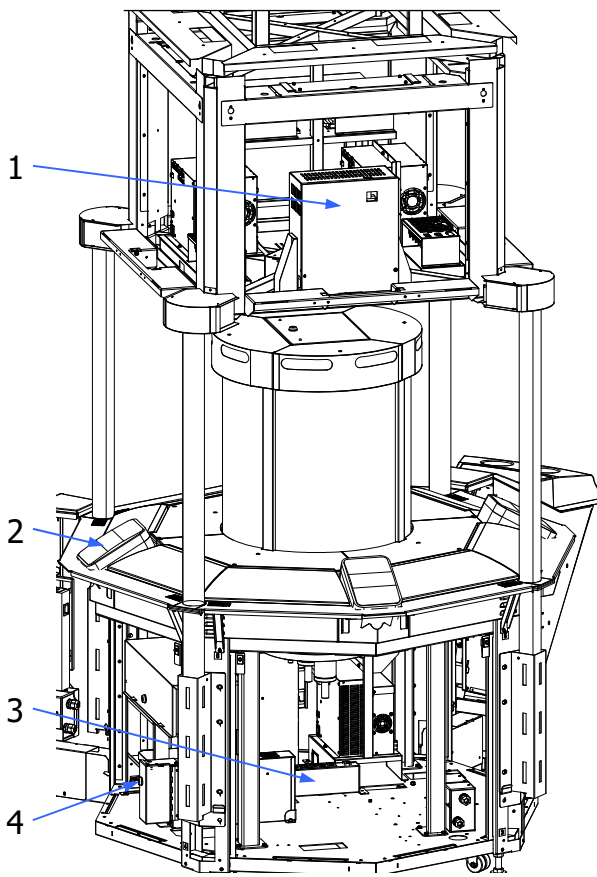
1. 3: Inside View of Center Unit [High PID Ver]



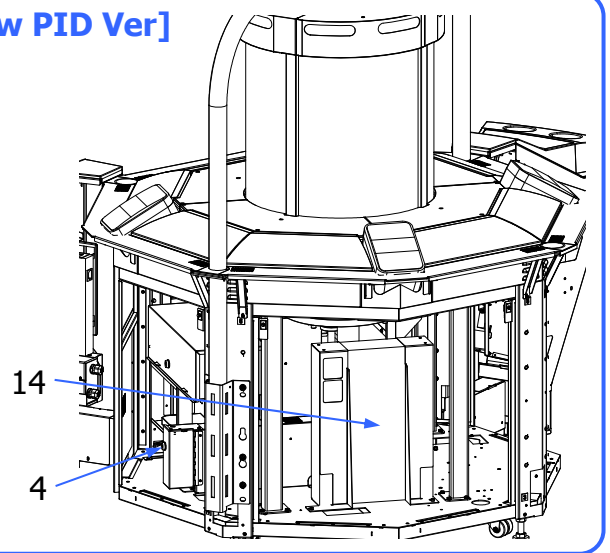
1. PCB Cover
2. SERIAL POWER(SERI PWR) PCB BRKT
3. Network Camera
4. Dice Field
5. Tinker Board Unit
6. Security Cage Door Lock
7. IO Case Unit
8. Breaker Unit
9. 2CH KVM Switch
10. LCD Control Pad
11. GAT3(D SUB) Connector(Optional)
12. Main Power Unit
13. Power Relay Unit

14. Fans(Top Fan)
15. USB HUB
16. Breakers(Power A Unit)
17. Power A Unit
18. Head Door Lock
19. Center Door Switches
20. Driver Case Cover Lock
21. Switching HUB
22. Audio Module
23. Main Power Switch

[High PID Ver]



[Low PID Ver]



1. AP-X Unit

2. Speakers

3. Power Distribution Unit

4. ETD PC Case Door Lock

5. AP-X PID Door Lock

6. DICE Generator Unit(Actuator)

7. DICE Generator Fan

8. Power B Unit

9. Breakers(Power B Unit)

10. Fans(Cabinet Fan)

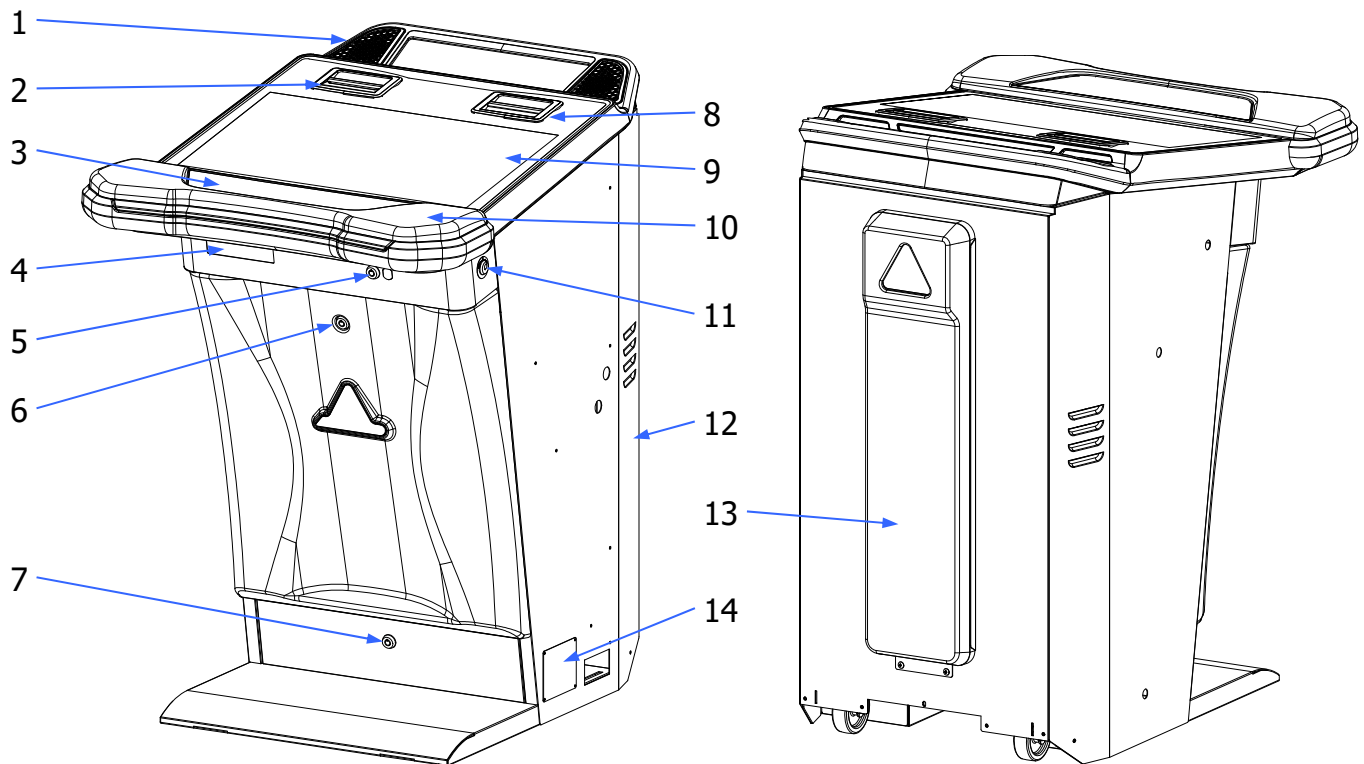
11. Serial Plate

12. Center Unit Doors

13. PID Power Switch unit

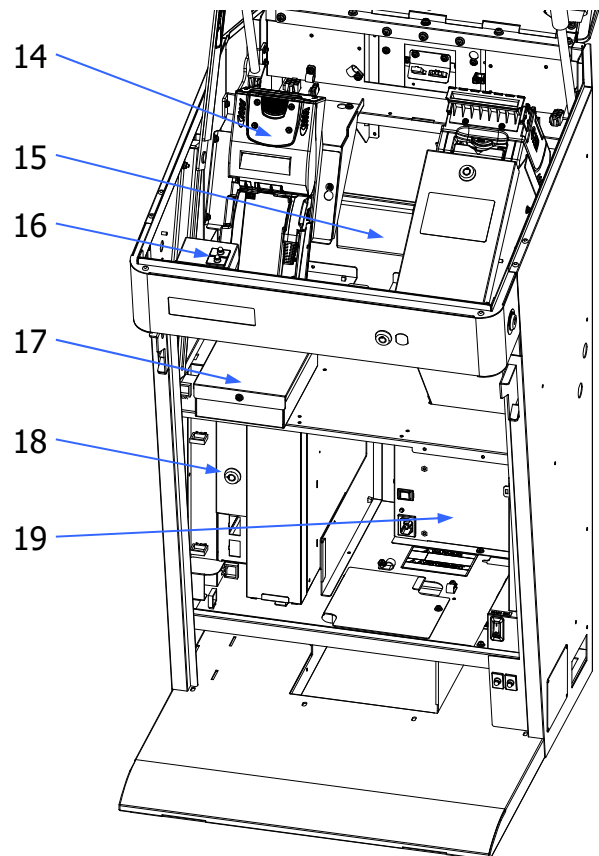
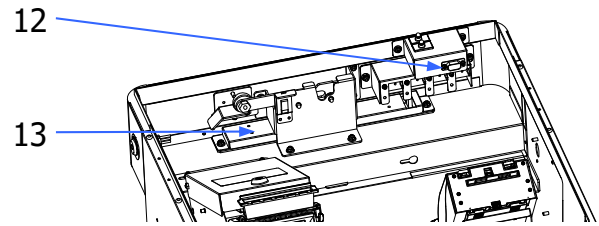
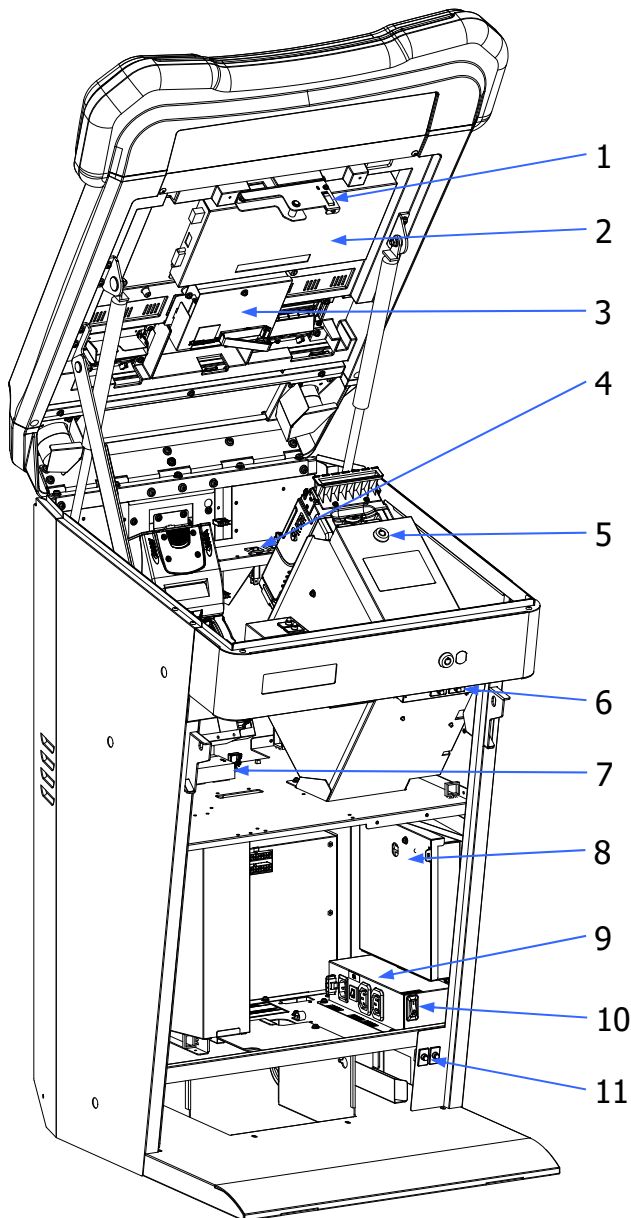
14. Signage Controller Unit

1. 4: Outside View of Station



- | | |
|---|----------------------------|
| 1. Speakers | 8. BILL Chute |
| 2. Printer Chute | 9. Top Door |
| 3. Control Panel | 10. Arm Rest(Pad) |
| 4. Mechanical Meters(Counter)
:Used only in the regions that use the
mechanical meters. | 11. RESET/AUDIT Key Switch |
| 5. Top Door Lock | 12. Cabinet |
| 6. Front Door Lock | 13. Back LED(Optional) |
| 7. Bottom Door Lock | 14. Serial Plate |

1. 5: Inside View of Station



1. Top Door Sensor
2. LCD Monitor
3. Touch Screen PCB
4. Breakers
5. BILL Case(BV CASE) Door Lock
6. Front Door Switch and Sensor
7. DDC/EDID Emulator
8. IO Case
9. Plug-in Unit(AC Base)
10. Power Switch
11. Bottom Door Switch

12. GAT3(D SUB) Connector(Optional)
13. Front LED
14. Ticket Printer
15. Audio Module PCB
16. Top Door Switch
17. SUB IO Case(Optional)
18. Security Cage Front Cover Lock
19. Power Supply

Chapter 2

Unpacking and Inspection

2. 1: Unpacking and Inspection

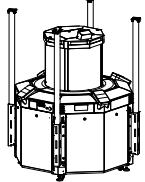
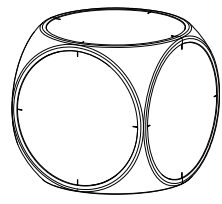
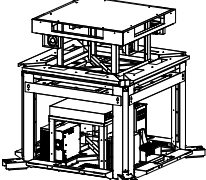
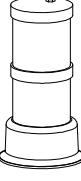
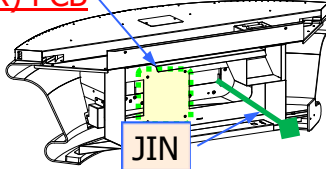
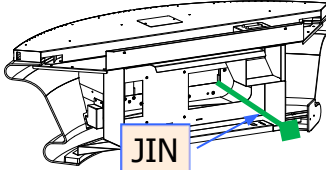
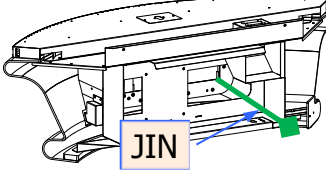
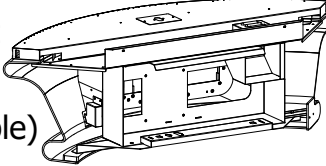
Unpack the machine, and check for shipping damage. If anything is missing or damaged, contact immediately your local office or nearest distributor.

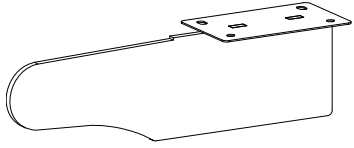
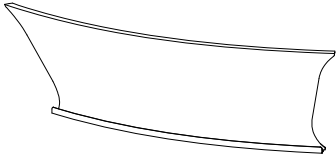
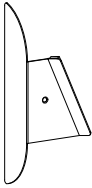
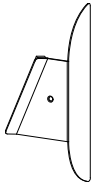
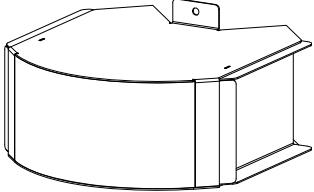
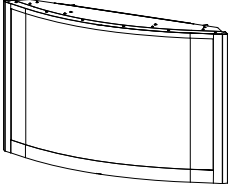
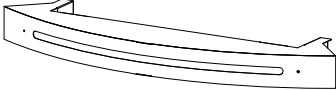
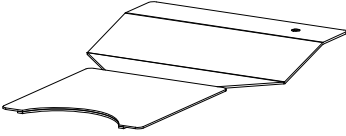
Supplied Part	QTY
Key (B2155)	1
Reset Key	1
Tower Light (Option)	(2)

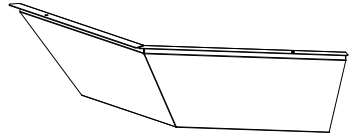
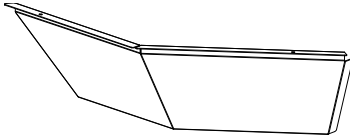
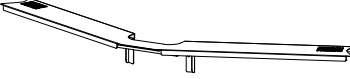
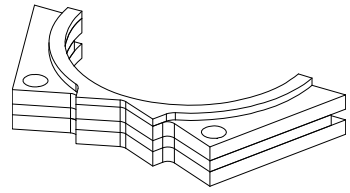
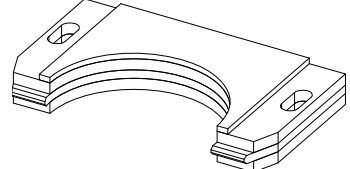

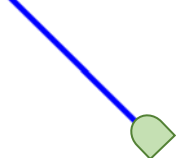
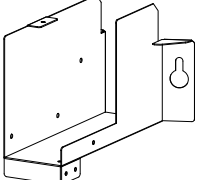
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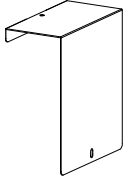
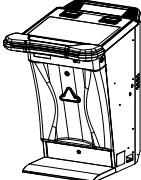
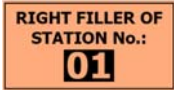

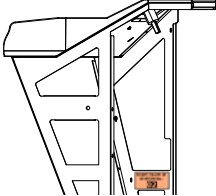
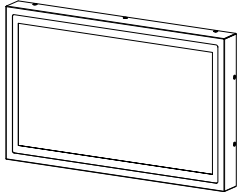

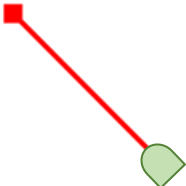
The content of the provided accessories may vary according to specifications.

Packing List (for Center Unit)


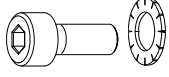

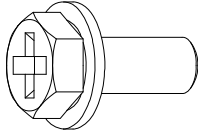

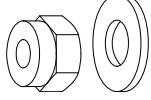
Parts Name		Qty	Appearance
1	Center Unit	1	
2	Dice	3	
3	PID Frame Unit	1	
4	Tower Light	2	
5	Top PID Unit (with SIG B(MTX) PCB) (with [JIN] Connector Cable)	1	
6	Top PID Unit (with [JIN] Connector Cable)	1	
7	Top PID Unit :for Tower Light (with [JIN] Connector Cable)	1	
8	Top PID Unit :for Tower Light (without [JIN] Connector Cable)	1	

Parts Name		Qty	Appearance
9	Joint BRKT	4	
10	Relief Panel	4	
11	Relief BRKT L	4	
12	Relief BRKT R	4	
13	Pole Cover	4	
14	LCD Unit	4	
15	BTM Cover	4	
16	Pole REG Cover	4	

Parts Name		Qty	Appearance
17	Design Cover A	2	
18	Design Cover B	2	
19	Joint BRKT B Unit (It can be also installed on the Center Unit)	4	
20	Joint BRKT C (for High PID) (It can be also installed on the Center Unit)	4	
21	Joint BRKT D (for High PID) (It can be also installed on the Center Unit)	4	
22	Frame Joint BRKT A (It can be also installed on the Center Unit)	8	
23	AC Power Cable (3Core, 2.0Sq Cabtyre)	2	
24	Harness BRKT	2	

Parts Name		Qty	Appearance
25	Harness Cover	2	
26	Station (STATION No.01 - 08)	8	
27	Pow Switch and HUB Spacer Unit [RIGHT FILLER OF STATION No.01] (for Power Switch and HUB)	1	
28	Control Spacer Unit [RIGHT FILLER OF STATION No.03] (for AUDIT setting)	1	
29	Spacer Units (RIGHT FILLER OF STATION No.02, 04, 05, 06, 07 and 08)	6	
30	LCD Control Pad (for Control Spacer Unit)	1	
31	LAN Cable(for Station: 2.5m)	2	
32	AC Cable(for Station)	8	

Fastener List

Fasteners		Appearance
A	HEXAGON SOCKET BUTTON with FLANGE M4x8	
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	
C	SMALL FLAT M4x8 BLK	
D	HEX UPSET M10 x 20 3P	
E	NUT M4 SPRING WASHER A4 DIN 127 WASHER A4 DIN 125	
F	NUT M3 DIN 985 WIDE WASHER 3 DIN 902	

Chapter 3

Installation

3. 1: Whole Machine Dimension

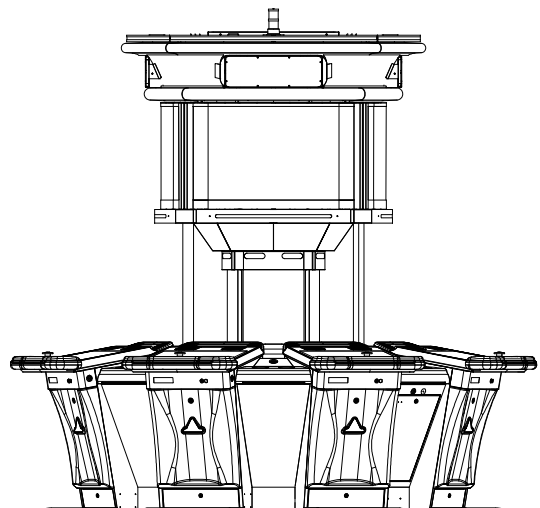
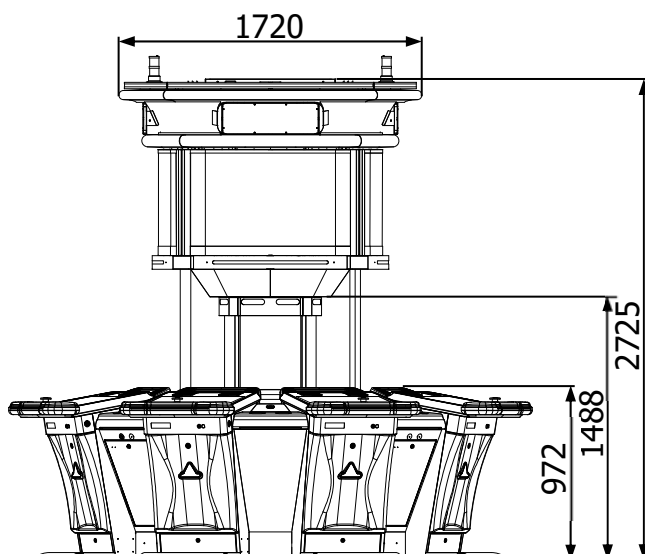
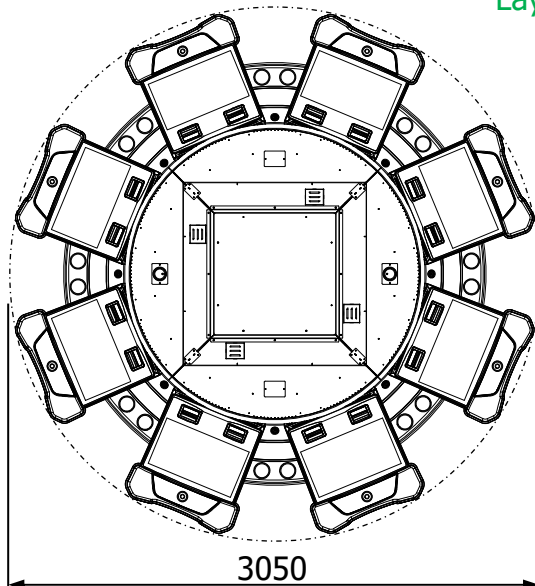
The Whole Machine dimensions are depicted below.

Secure enough space so that the doors can be easily opened for POWER-ON/OFF, maintenance, and so on.

- **Outer Dimension - Unit: mm** (excluding all parts sticking out)

The TOWER LIGHT is optional.

Layout 8 Stations



3. 2: Installing the Machine

⚠ WARNING!

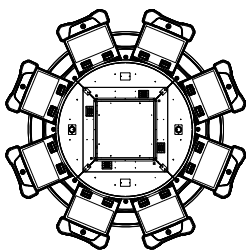
- Installation must be performed by qualified service personnel.
- To install this machine, at least 4 people are necessary.
- Before starting installation procedures, refer to **"Safety Instructions"**.
- Interblock d.o.o. cannot be held liable for damages or injuries caused by improper installation.

i NOTE:

It is possible to install to this machine a maximum of 50 stations, including the 8 stations incorporated by the Center Unit. For more details.

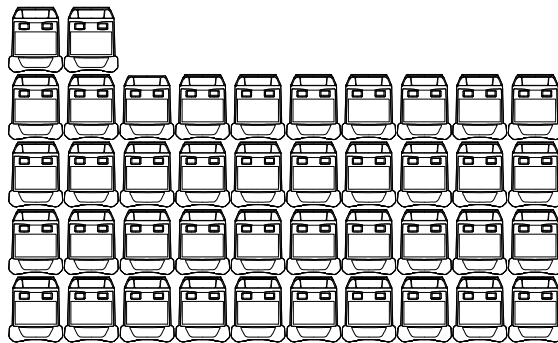
Maximum number of stations can be 50 pcs

Center Unit Stations 8 pcs



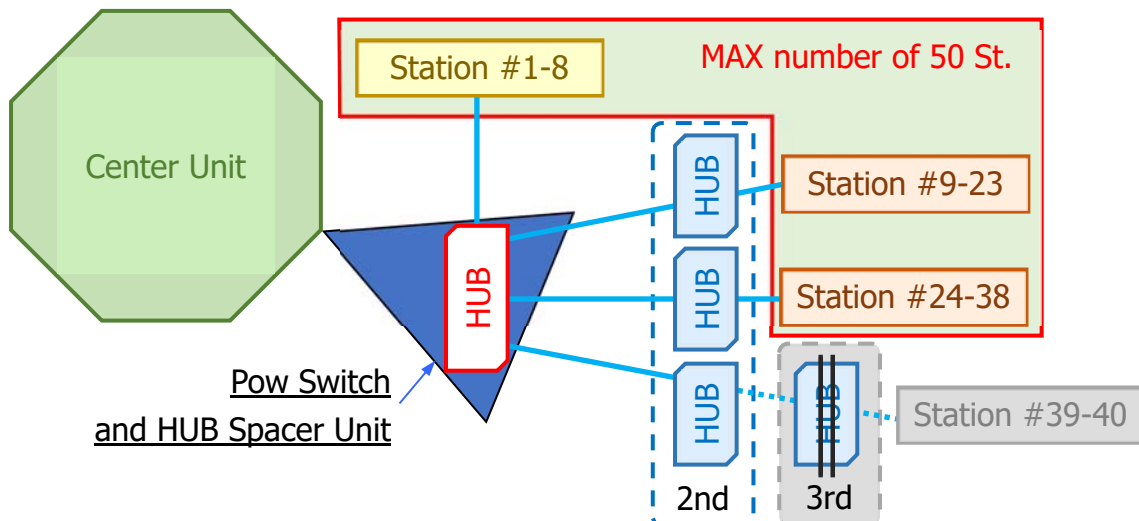
+

Extension Stations 42 pcs



[Limitation for extension]

- Extension Stations are connected by using the LAN Cable that is included in the HUB inside the Pow Switch and HUB Spacer Unit.
- According to the number of Extension Stations and their distance, connect the Station to a 2nd HUB in relay to the HUB of the Pow Switch and HUB Spacer Unit.
- It is possible to connect up to 15 stations to each 2nd HUB.
- It is not possible to connect the 2nd HUB to a 3rd HUB. Add multiple 2nd HUBs to the HUB of the Pow Switch and HUB Spacer Unit, and diverge to each station.

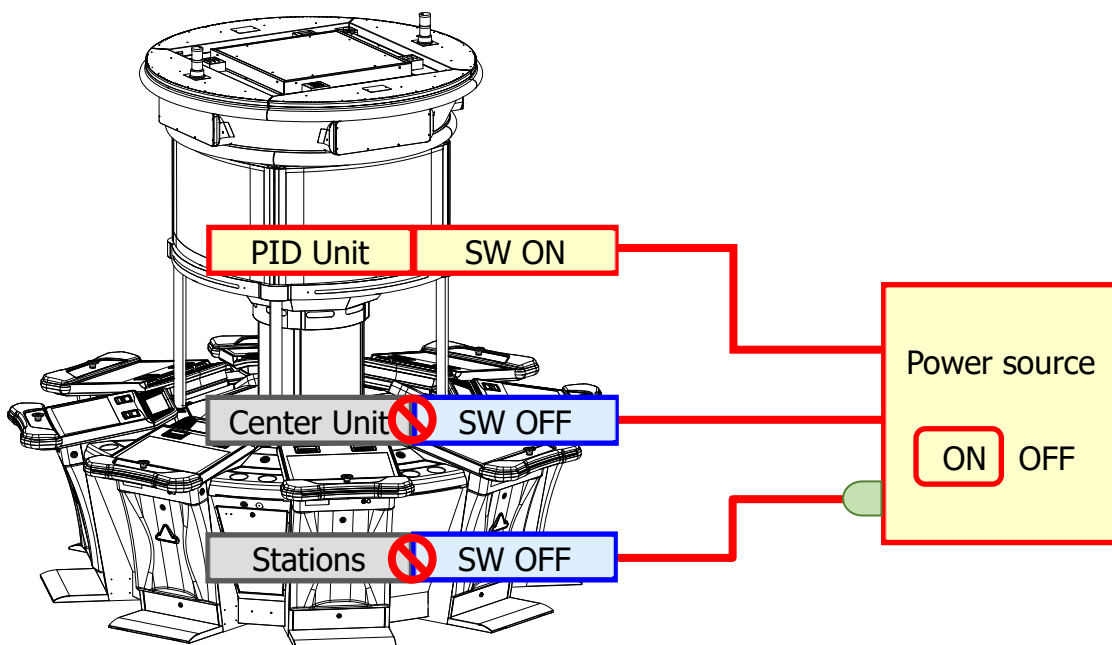


Preparation

- To preserve the horizontal level, install the machine on a solid surface that will not suffer the influence of vibration.
- The installation requires operations on high places. Check the procedures in advance and arrange a disposition that will allow enough space for the work.
- Mount the machine in an area equipped with power and communication cables.
- This machine needs power outlets for the Center Unit and PID Unit, and exclusive power plugs for each Station and the optional USB Chargers.

i NOTE:

The PID Unit will boot up when connected to an electrified power source. Remember that it is not connected to the Power Switch of the Center Unit.



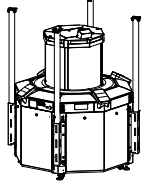
Before installing the machine, prepare the following tools:

- Ratchet wrench with sockets of S=7, 8, 10, 12, 13, and 19mm Otherwise, open-end wrenches (+19mm) with the same sizes
- Phillips screwdriver (#2)
- HEXALOBULAR INTERNAL(Torx) screwdriver
- Hexagon wrench
- Step ladder
- Waste cloth

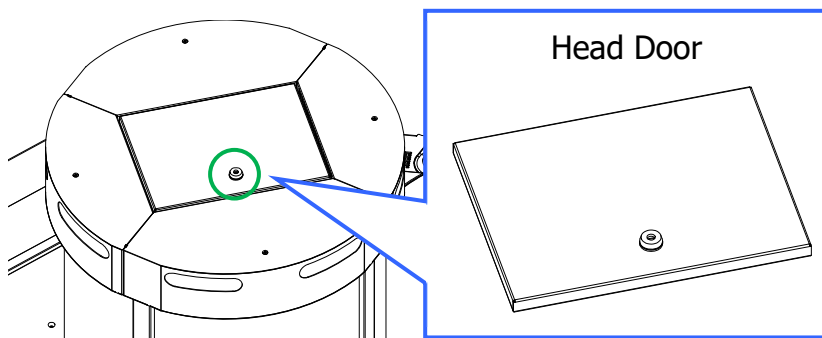
3. 2. 1: Center Unit

3. 2. 1. 1: Installing the Center Unit

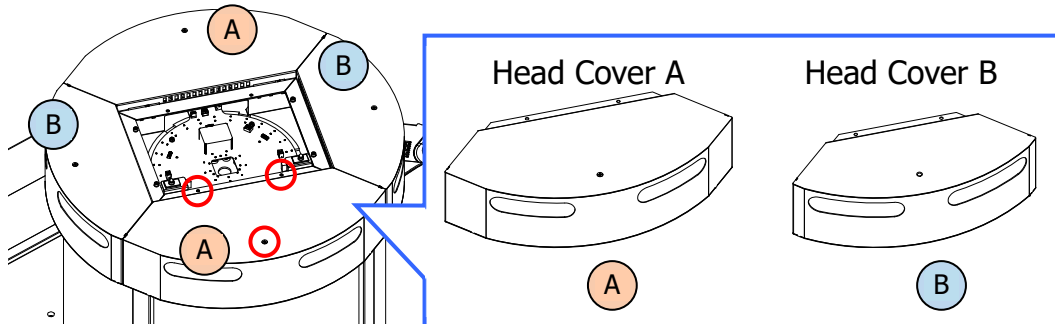
1. Prepare the following Parts.

Parts Name	Qty	Appearance
Center Unit	1	

2. Remove all the shipping materials from the Center Unit. Check the exterior to verify that there are no damages etc.
3. Locate the Head Door, then unlock and remove it.



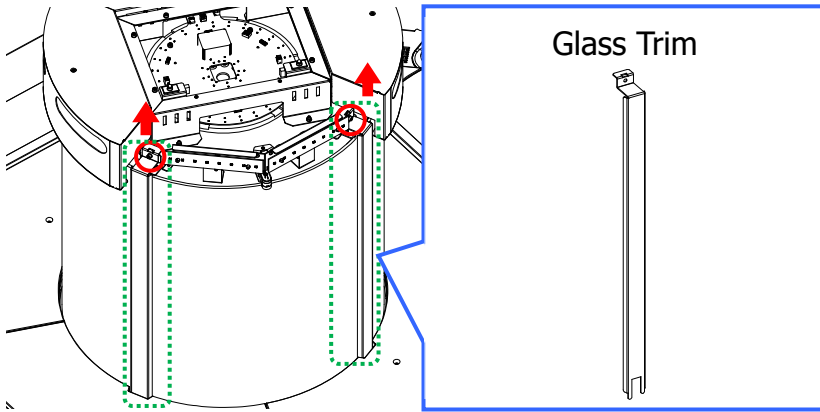
4. Remove 3 screws and detach the Head Cover A.



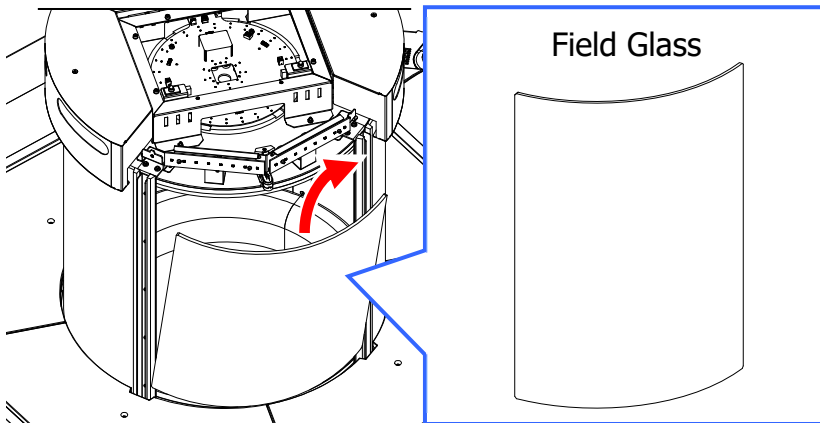
5. Remove 1 screw for each side to pull upwards and remove the 2 Glass Trims.

⚠ CAUTION!

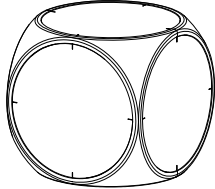
Sometimes it can be difficult to remove the Glass Trim. Please pay attention to avoid damages or injuries.



6. Paying attention not to damage the Field Glass, remove the glass by pulling forward the top of the field glass.



7. Prepare the following Parts.

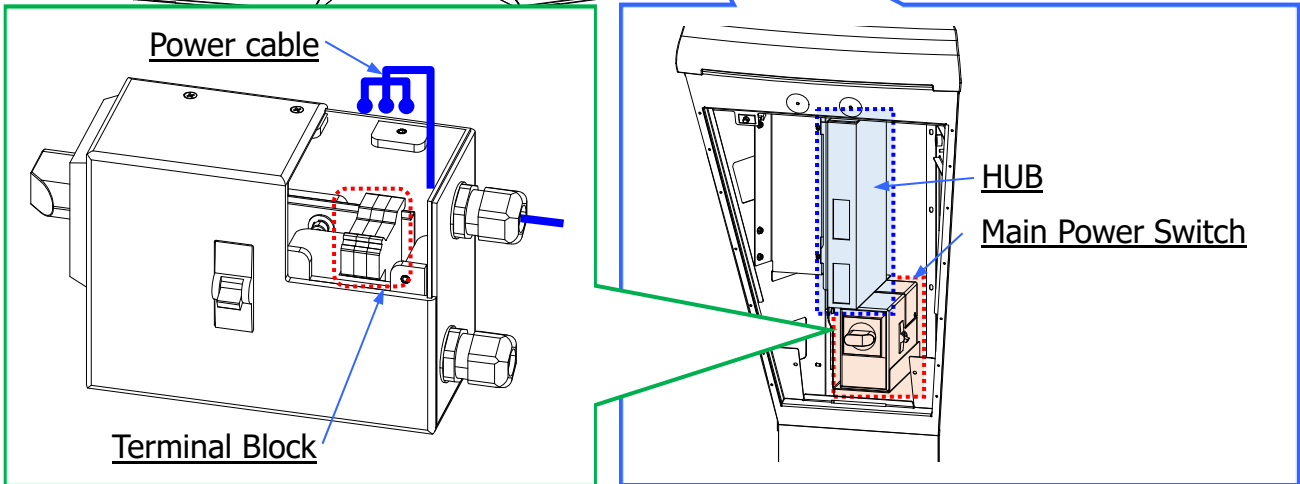
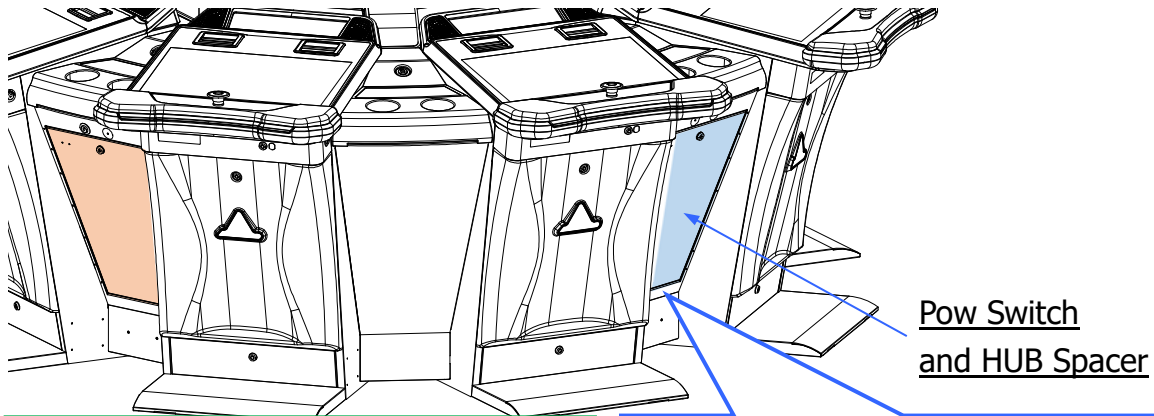
Parts Name	Qty	Appearance
Dice	3	

8. Remove the Dice from the Field area and reassembly to their original position the Field Glass, the Glass Trim, the Head Cover A and the Head Door.

9. According to the chosen layout, place the Center Unit at your desired position on a flat floor where cables for electricity and communication have already been installed.

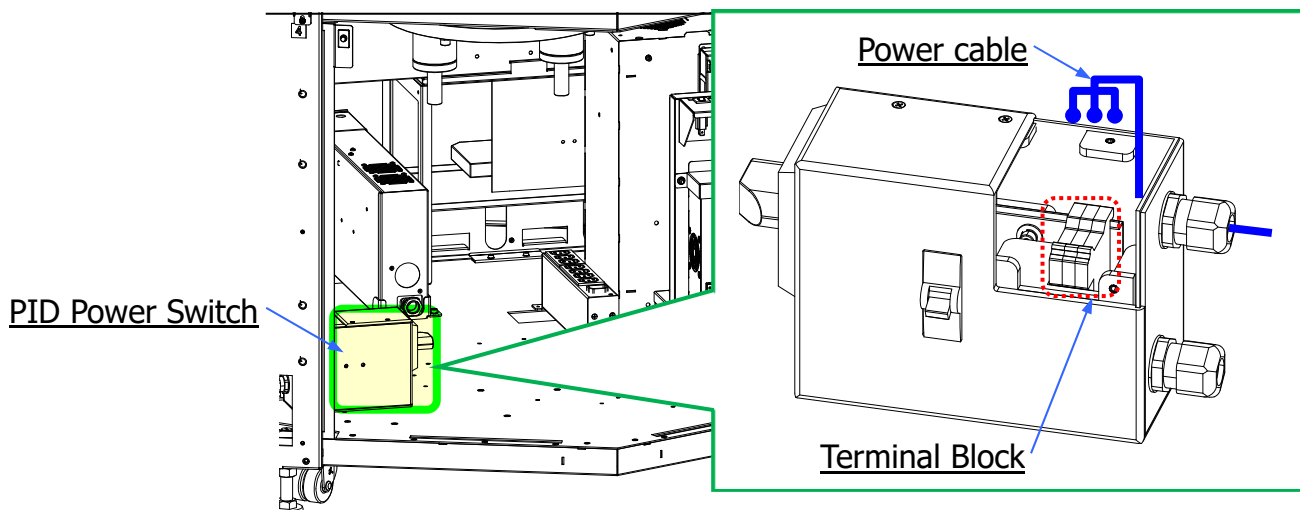
i NOTE:

When planning the layout of the Center Unit, remember that its Power Cable is connected to the [Main Power Switch Unit] of the Pow Switch and HUB Spacer Unit.



[for HIGH PID Unit]

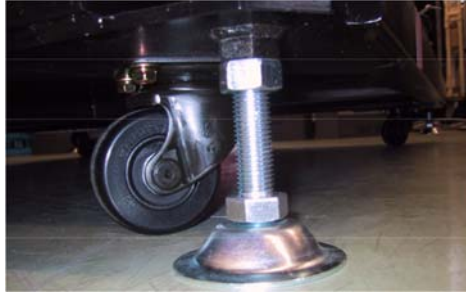
Please remember that the Power cable for the PID Unit is connected to the [PID Power Switch Unit]. The Power cable for the Center Unit uses a different power line.



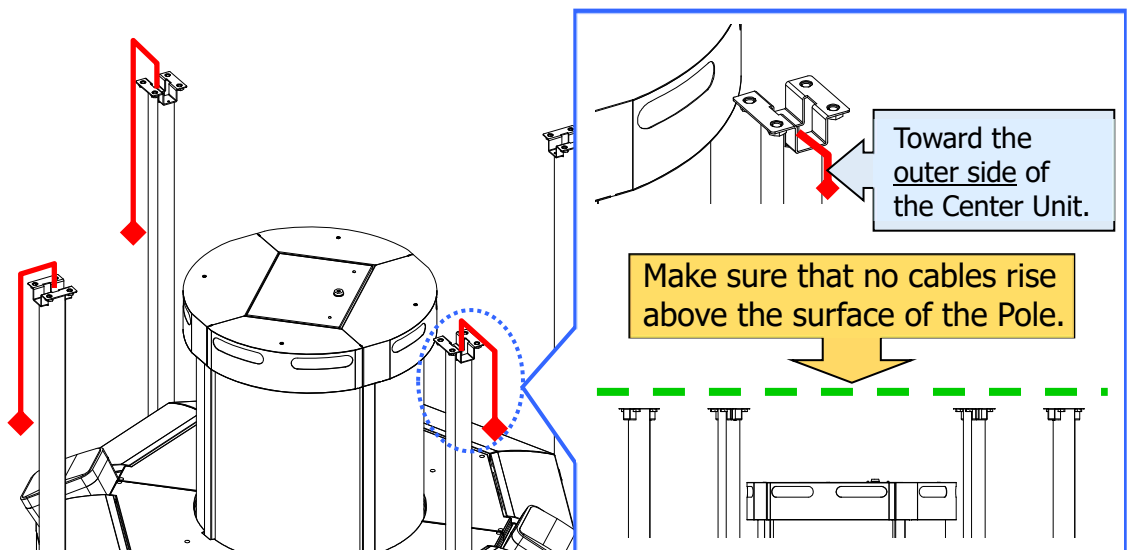
- Secure the Center Unit to the floor by lowering the adjuster situated at the bottom of the machine.

! WARNING!

Secure the Center Unit so that it will not move during the installation of the LED Panel Unit.

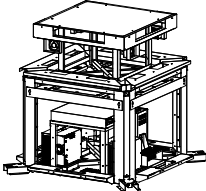


- Since the PID Unit will be placed on the Poles, let the cables rising out of the top of each Pole hang from each Pole top toward the outer side, and arrange them so that they will not get in the way during the next procedures.



3. 2. 1. 2: Installing the PID Frame Unit onto the Center Unit

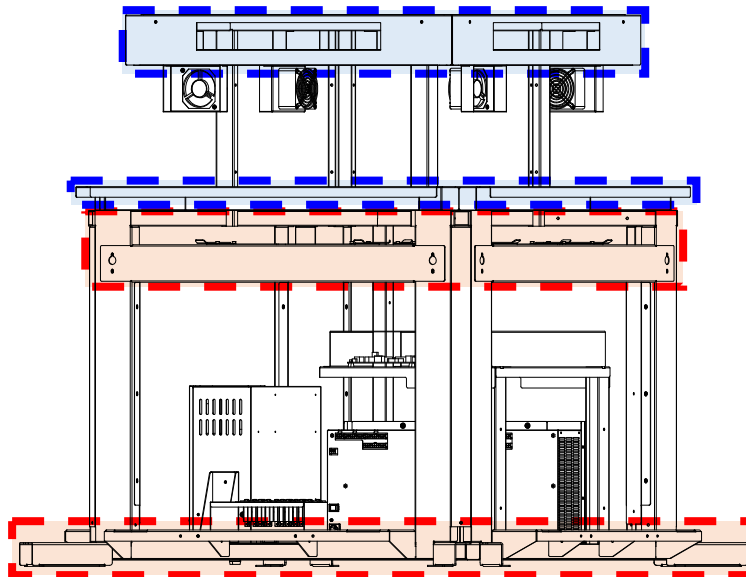
1. Prepare the following Parts.

Parts Name	Qty	Appearance
PID Frame Unit	1	

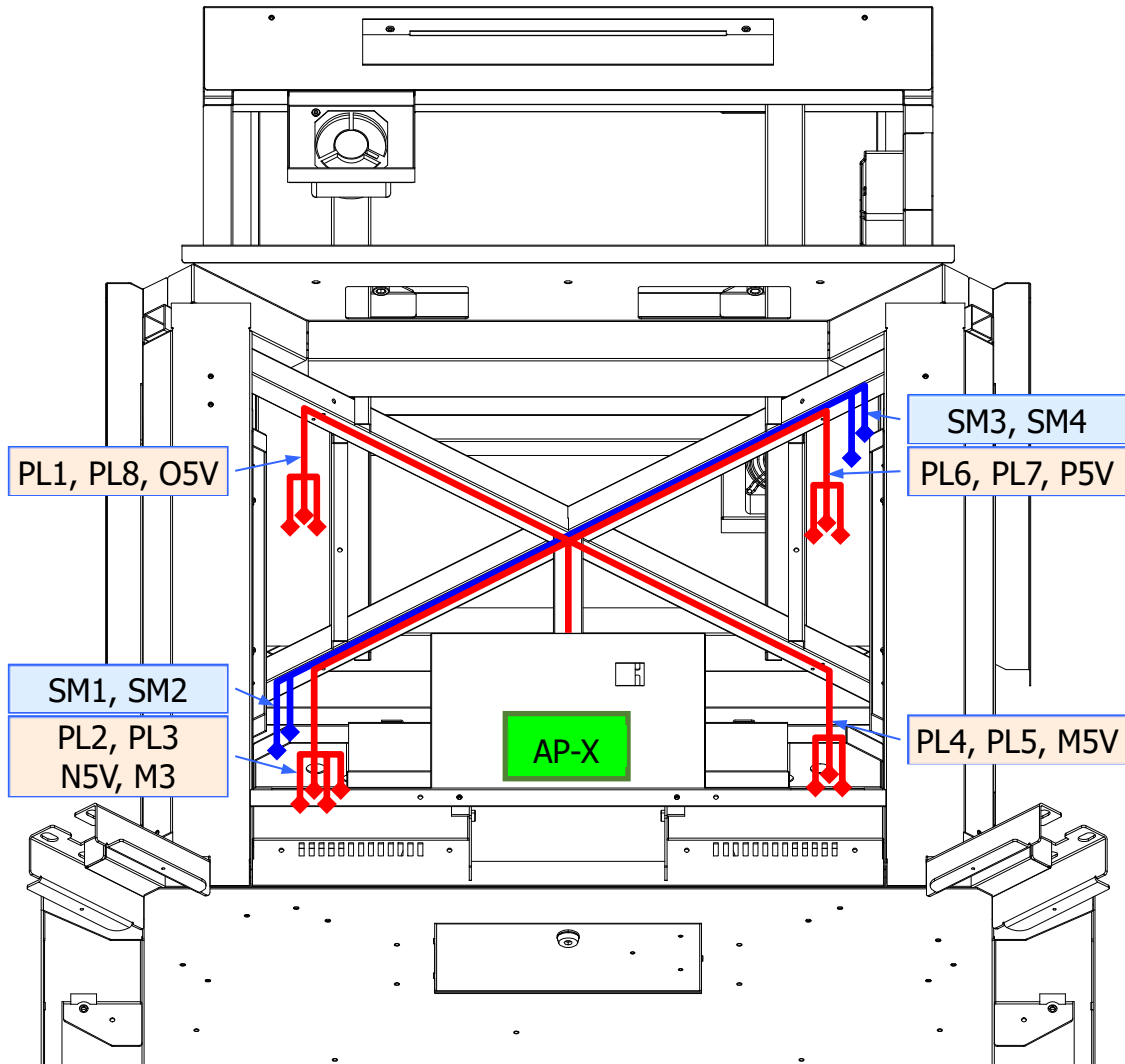
CAUTION!

Raise the PID Frame Unit holding the frames indicated by the red line. Do not hold the Frame indicated by the blue line.

Do not hold the Frame indicated by the blue line when moving the Unit.



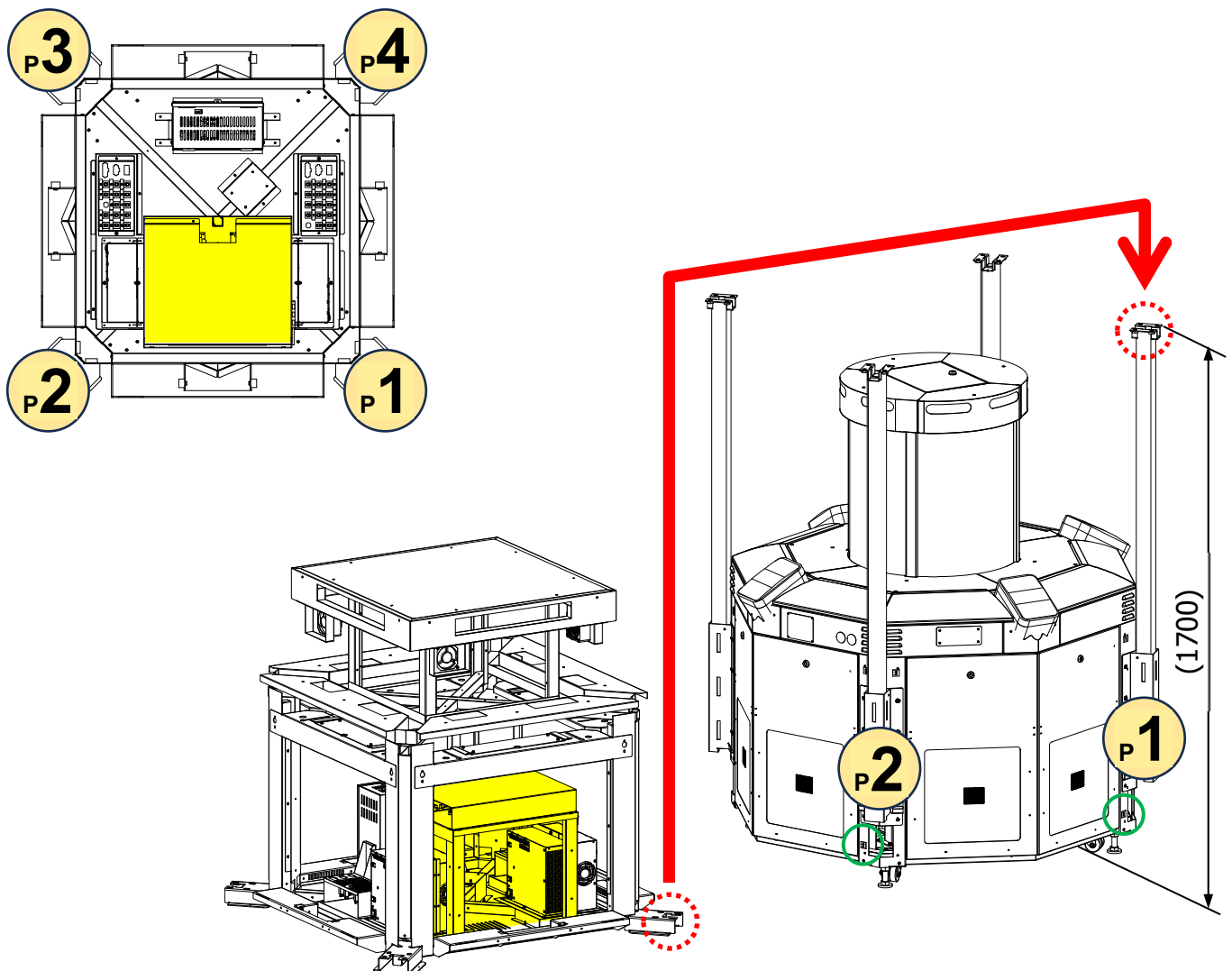
2. Check each connector that is clamped to Main Unit Frame, and arrange them so that they will not get in the way during the next procedures.



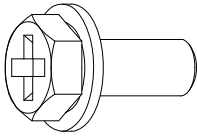
3. Install the PID Frame Unit on the top of the Poles of the Center Unit by matching the direction of the Unit, as illustrated below. Pay attention not to pinch the cables.

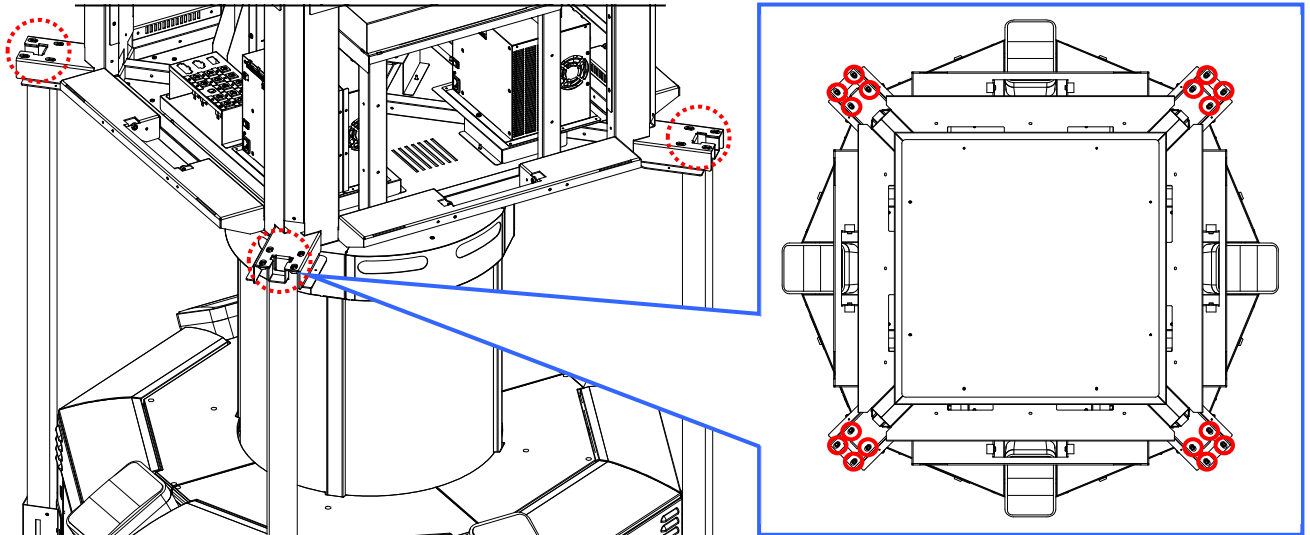
⚠ WARNING!

- To install this machine, at least 4 people are necessary.
- Once the installing procedure is started, never let go of the PID Frame Unit until it is affixed to the Center Unit.
- Since the operation will be performed in a high place, pay enough attention also to the safety of the surrounding area.

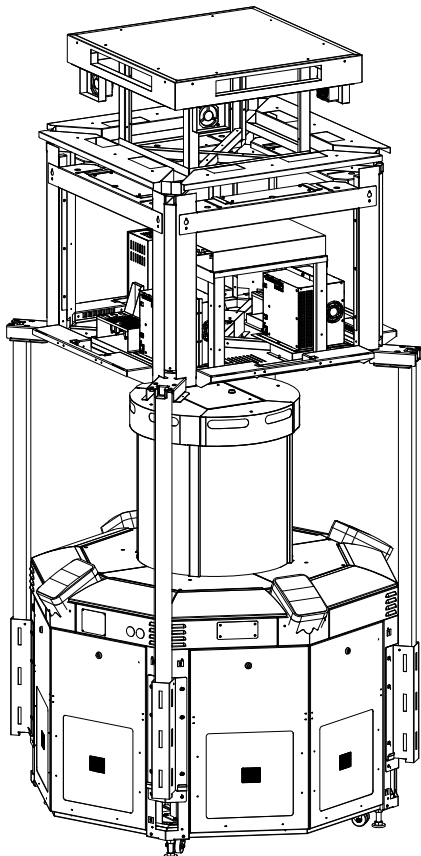


4. Affix the PID Frame Unit on the Poles of the Center Unit by using 4 bolts on each.

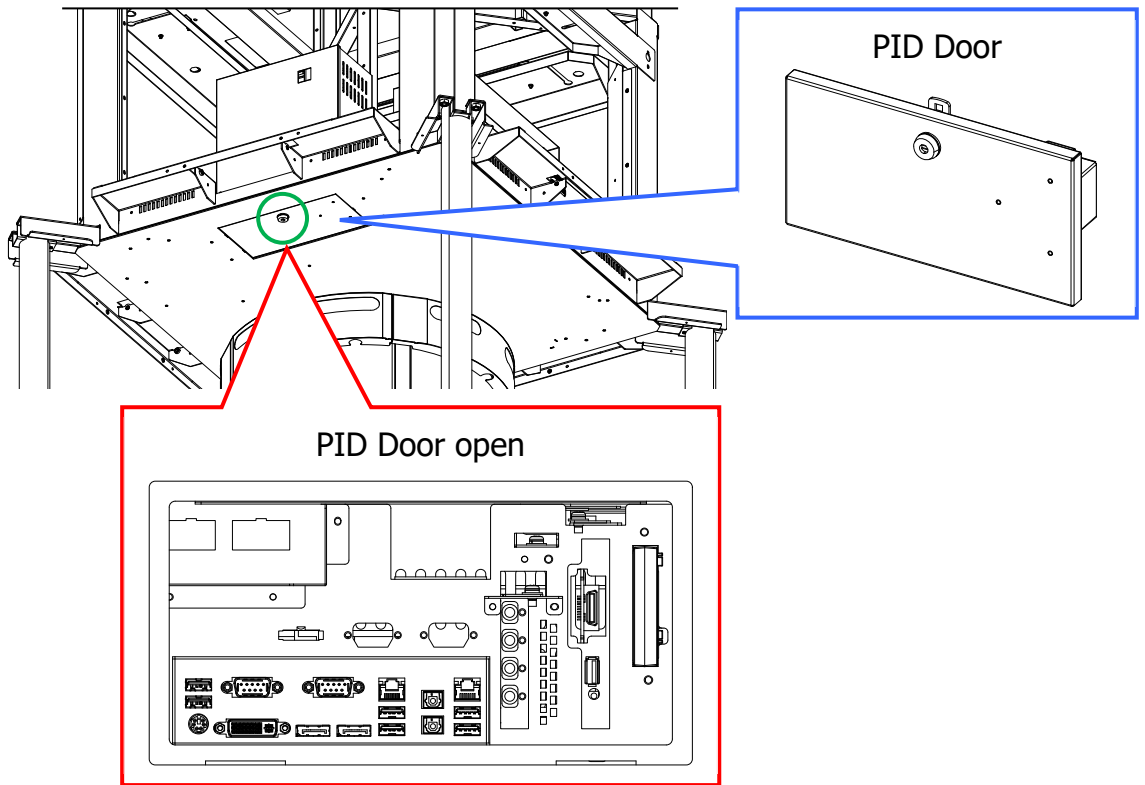
Fasteners		Qty	Appearance
D	HEX UPSET M8 x 20 3P	16	



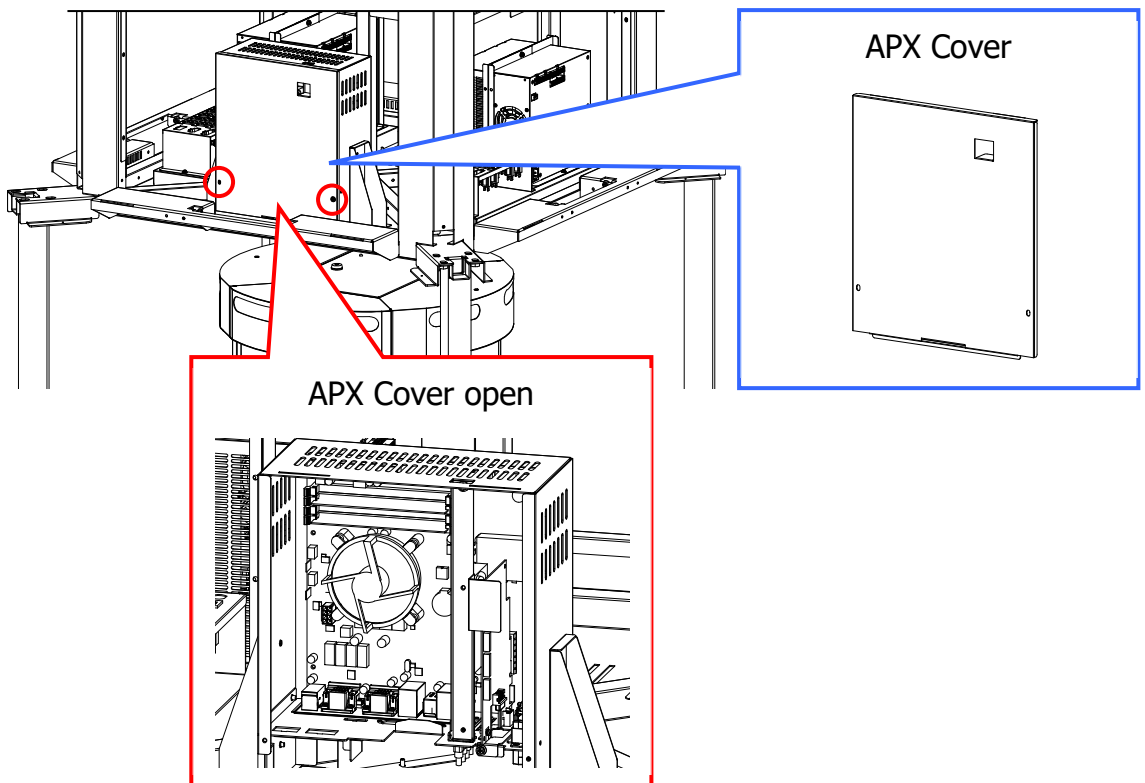
At this point the machine should look like this.



5. Locate the PID Door on the bottom of the PID Frame Unit, then unlock and remove it.

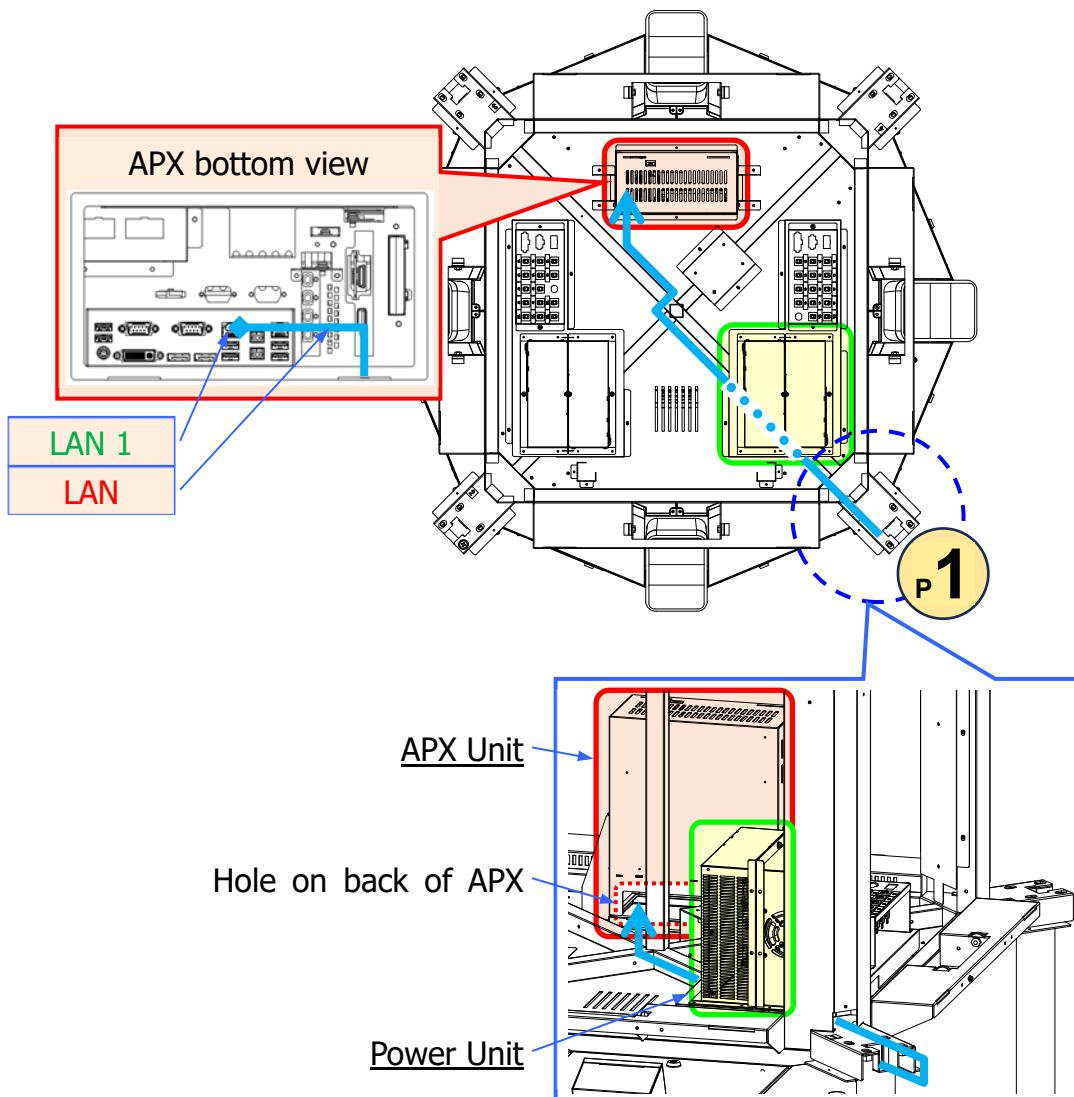


6. Remove the 2 Screws to detach the APX Cover.



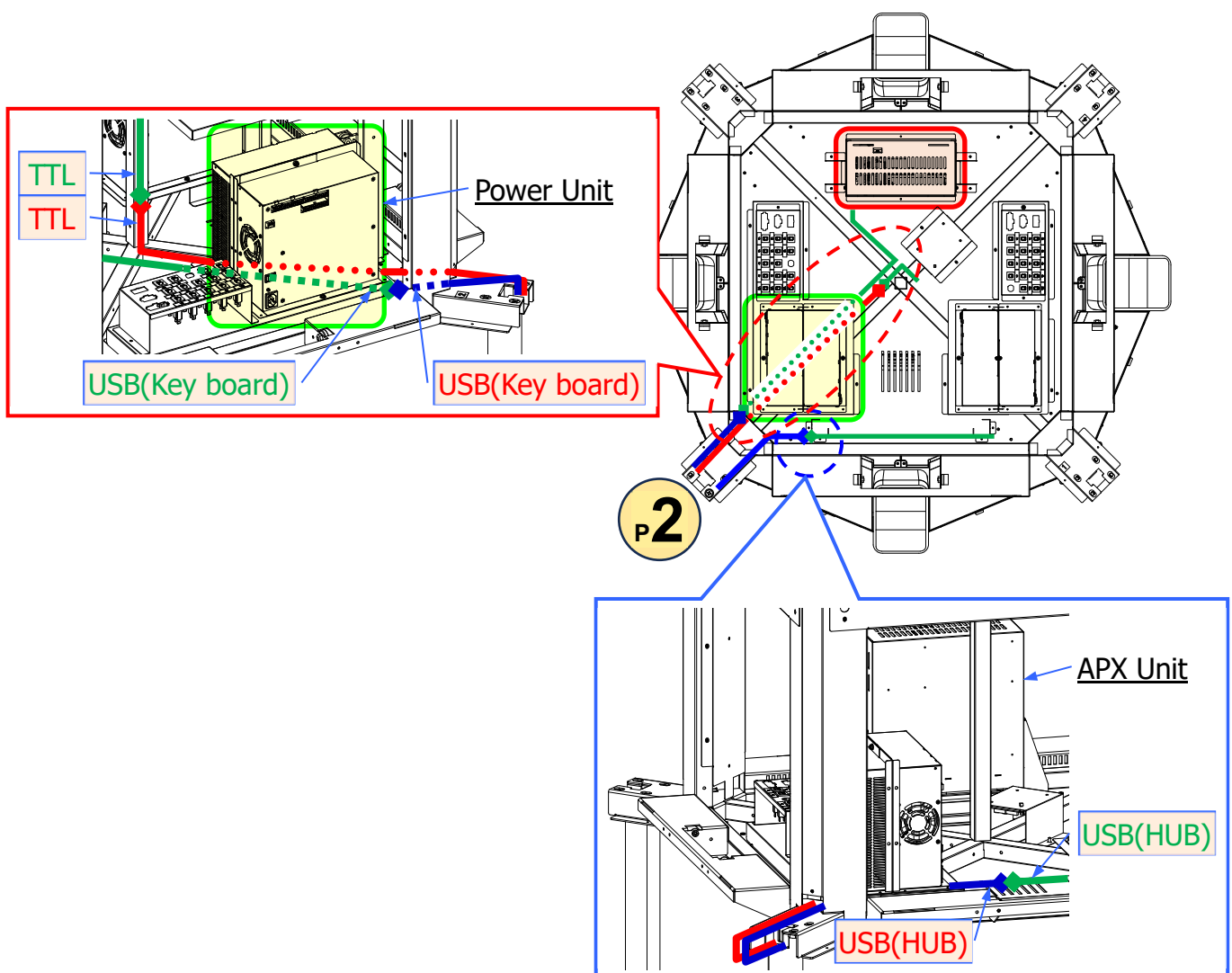
- Insert the Pole 1 LAN Cable inside the PID Frame Unit, and lead it below the Power Unit. Guide and clamp the cable along the frame, and connect it to the APX [LAN 1] Port, threading it through the hole on the back side of the APX Unit.

Pole No.	Connectors from Poles	Connectors of PID Frame Unit
1	[LAN]	[LAN 1]
2		
3		
4		



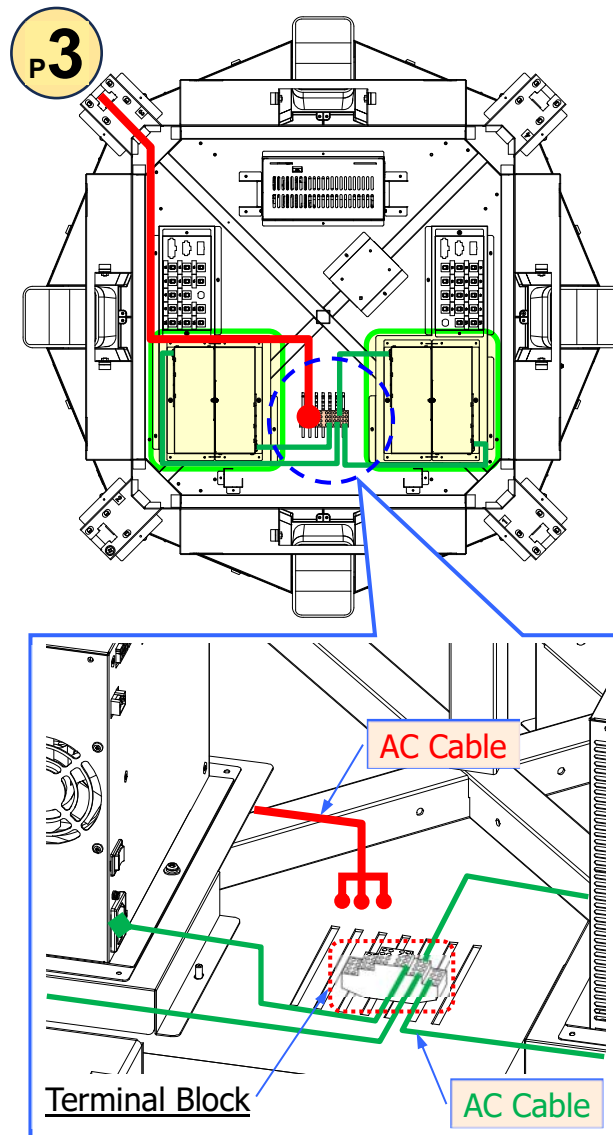
8. Insert the [TTL] Connector of Pole 2, and the [USB] (HUB) and the [USB] (Keyboard) Cables, inside the PID Frame Unit. Pass the [TTL] Connector below the Power Unit, and connect it to the [TTL] Connector that is inside the PID Frame Unit. Connect also the [USB] (HUB) and the [USB] (Keyboard) Cables to the [USB] (HUB) and the [USB] (Keyboard) Connectors inside the PID Frame Unit.

Pole No.	Connectors from Poles	Connectors of PID Frame Unit
1	Done	
2	[TTL], [USB] (HUB)/(Key board)	[TTL], [USB] (HUB)/(Key board)
3		
4		



9. Insert the AC Cable of Pole 3 inside the PID Frame Unit, and plug it to the [Terminal Block] to which are connected the AC Cables of the Power A Unit and the Power B Unit.

Pole No.	Connectors from Poles	Connectors of PID Frame Unit
1	Done	
2	Done	
3	AC Cable	[Terminal Block]: AC Cable x4
4		

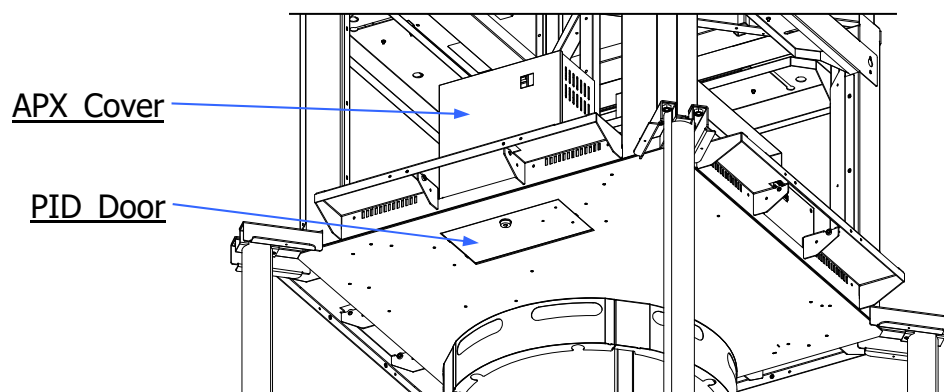


⚠ DANGER!

Risk of Electric Shock.

- The procedure for the connection to the Terminal Block can be performed only by electrical contractors or by qualified electricians.
- Before connecting power line, make sure to check that the power is OFF.

10. Return the detached APX Cover and the PID Door to their original positions.



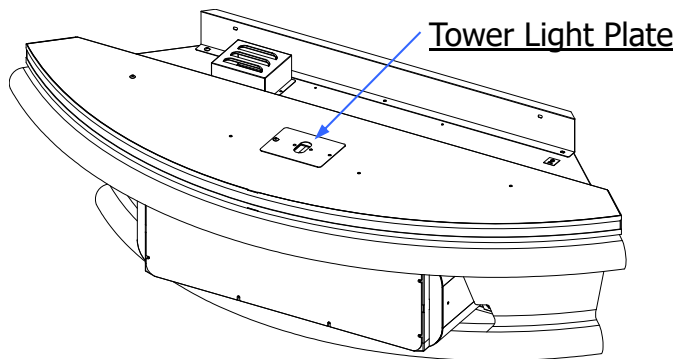
※All the connectors of the Center unit are now connected to the PID Frame Unit.

3. 2. 1. 3: Preparing the Top PID Unit(Installing Tower Light)

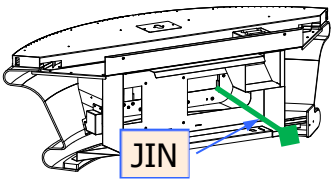
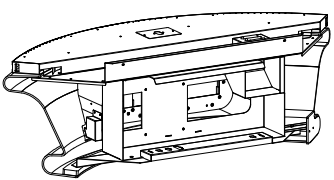
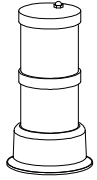
※ The Tower Light is an optional part. Skip this paragraph if it is not necessary.

i NOTE:

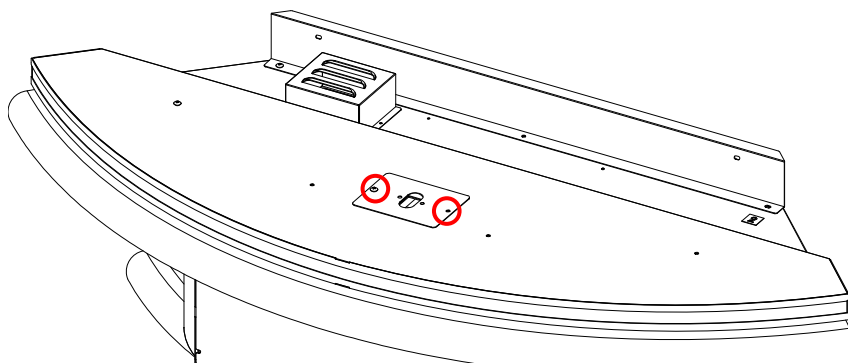
The target Top PID Unit is the one where the Tower Light Plate is installed.



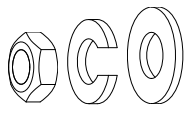
1. Prepare the following Parts.

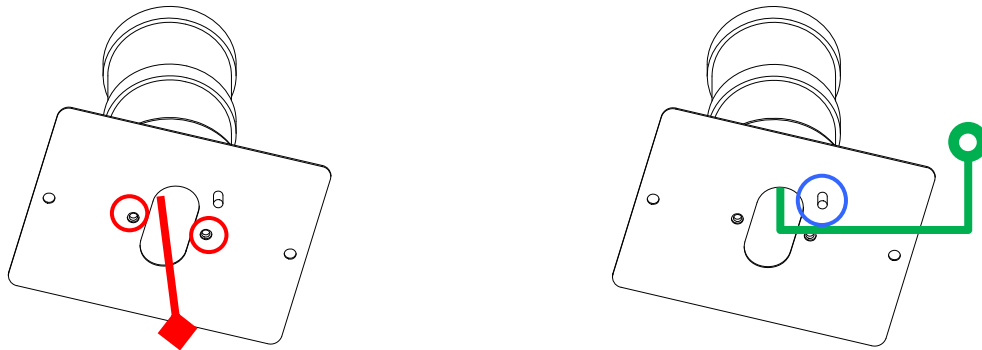
Parts Name	Qty	Appearance
Top PID Unit :for Tower Light (with [JIN] Connector Cable)	1	
Top PID Unit :for Tower Light (without [JIN] Connector Cable)	1	
Tower Light	2	

2. Detach the Tower Light Plate by removing the 2 screws.

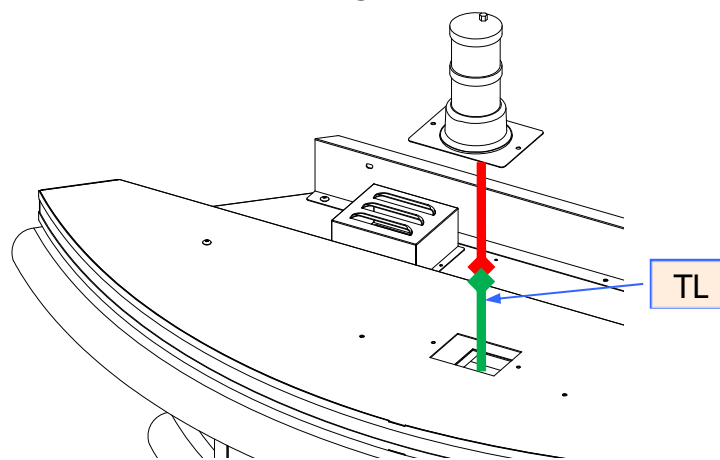


3. Thread the Tower Light Cable through the hole on the Tower Light Plate, and then affix the Tower Light by using the 2 screws (UNC#8-32-X5/8) that are included with the Tower Light.
4. Affix the Earth Cable Terminal of the Tower Light on the stud located on the inner side of the Tower Light Plate, by using the nut.

Fasteners		Qty	Appearance
E	NUT M4 SPRING WASHER A4 DIN 127 WASHER A4 DIN 125	2	



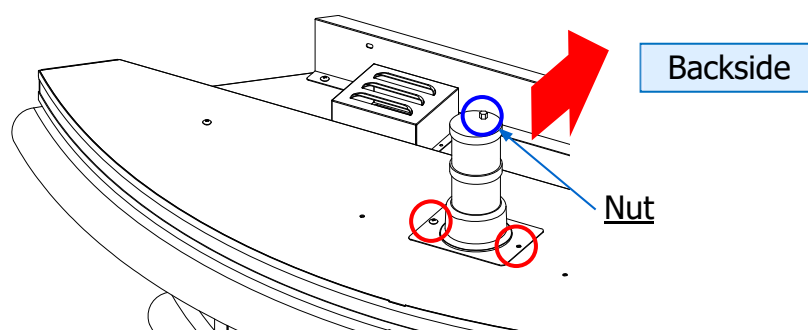
5. Connect the connector of the Tower Light to the [TL] connector inside the Top Sign Unit.



6. Return the Tower Light Plate to its original position and affix it by using screws.

i NOTE:

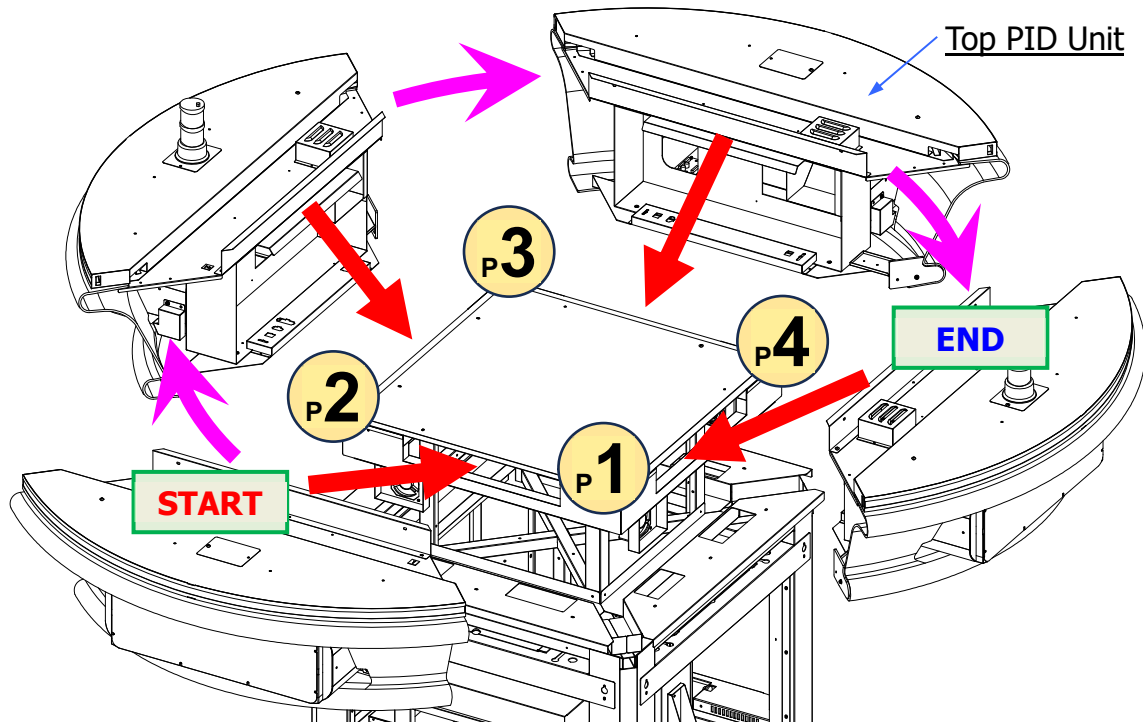
Make sure that the screw nut on the top of the Tower Light is located on the backside.



3. 2. 1. 4: Installing the Top PID Unit onto the PID Frame Unit

NOTE:

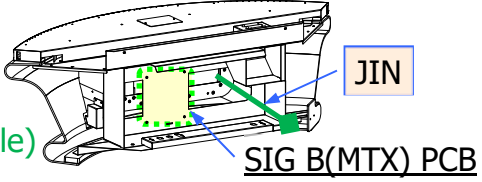
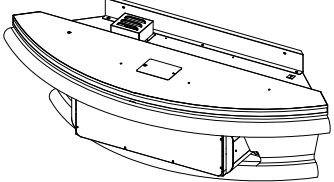
Install the Top PID Units in the correct order.



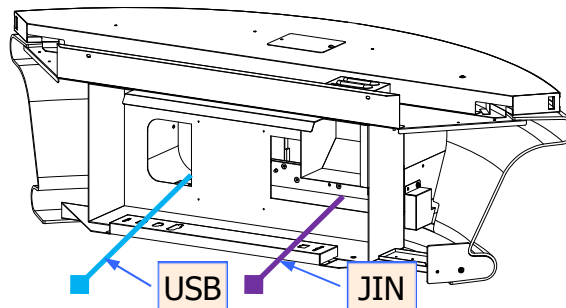
※There are 4 kinds of Top PID Units. Check each of them before the installation.

Parts Name	Qty	Appearance
Top PID Unit (with SIG B(MTX) PCB) (with [JIN] Connector Cable)	1	
Top PID Unit (with [JIN] Connector Cable)	1	
Top PID Unit: for Tower Light (with [JIN] Connector Cable) (Assembled 3.2.1.3)	1	
Top PID Unit: for Tower Light (without [JIN] Connector Cable) (Assembled 3.2.1.3)		

1. Prepare the following Parts.

Parts Name	Qty	Appearance
Top PID Unit (with SIG B(MTX) PCB) (with [JIN] Connector Cable) 	1	

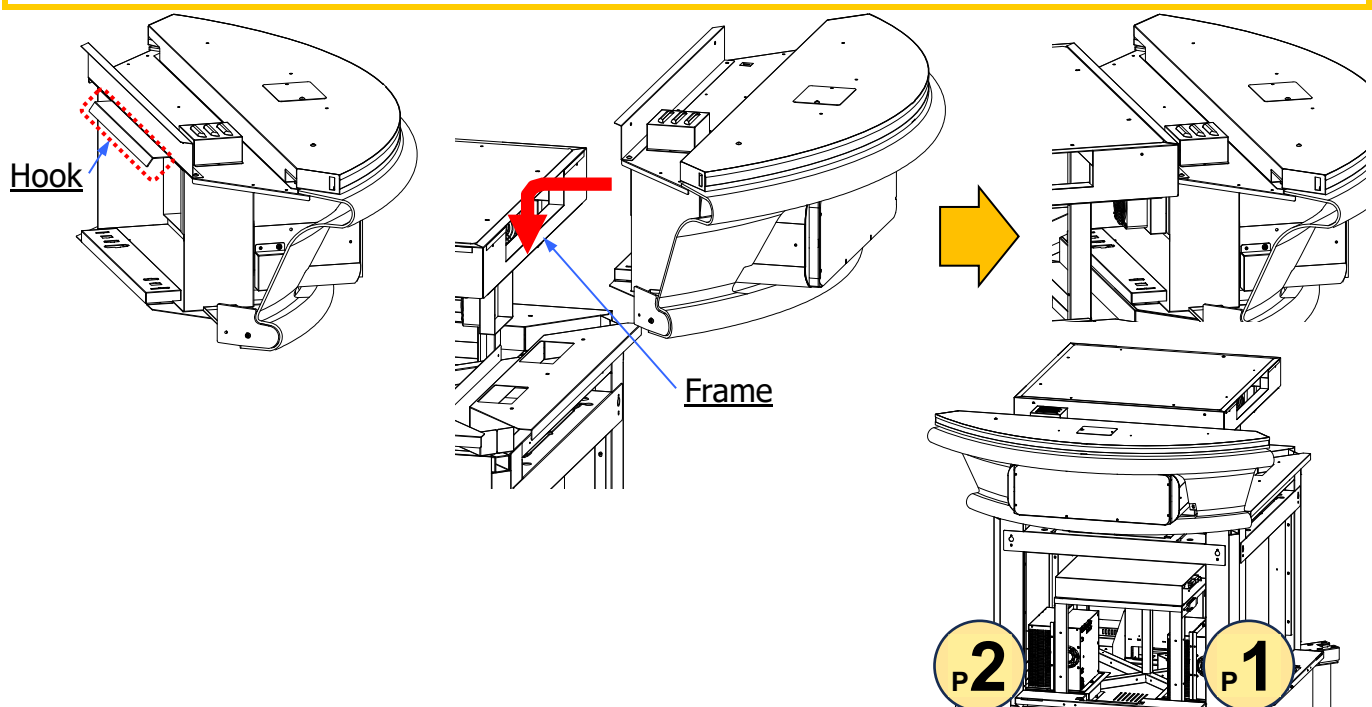
2. Locate the USB cable and the [JIN] Connector on the back of the Top PID Unit and arrange the cables so that they will not get in the way during the procedure.



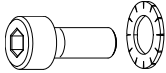
3. Hang the hook placed behind the Top PID Unit, to the frame of the PID Frame Unit of the side of Pole 1 and Pole 2.

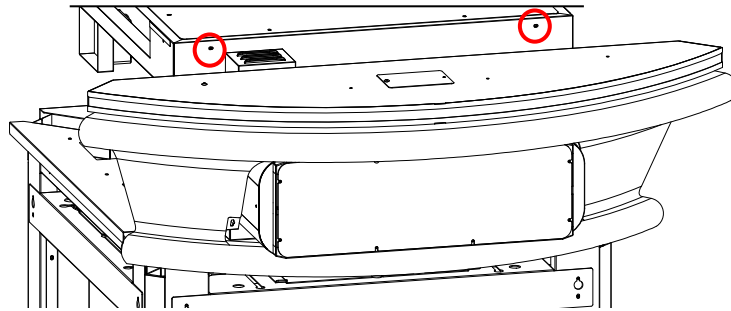
⚠ CAUTION!

- Once the installing procedure is started, never let go of the Top PID Unit until it is affixed to the PID Frame Unit.
- Since the operation will be performed in a high place, pay enough attention also to the safety of the surrounding area.

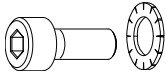


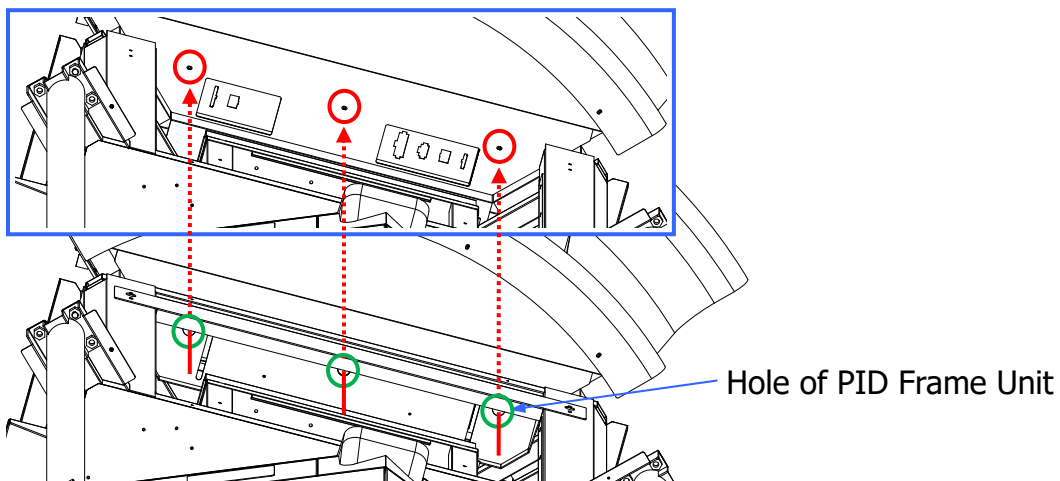
4. Affix the Top PID Unit to the PID Frame Unit by using 2 screws.

Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	2	

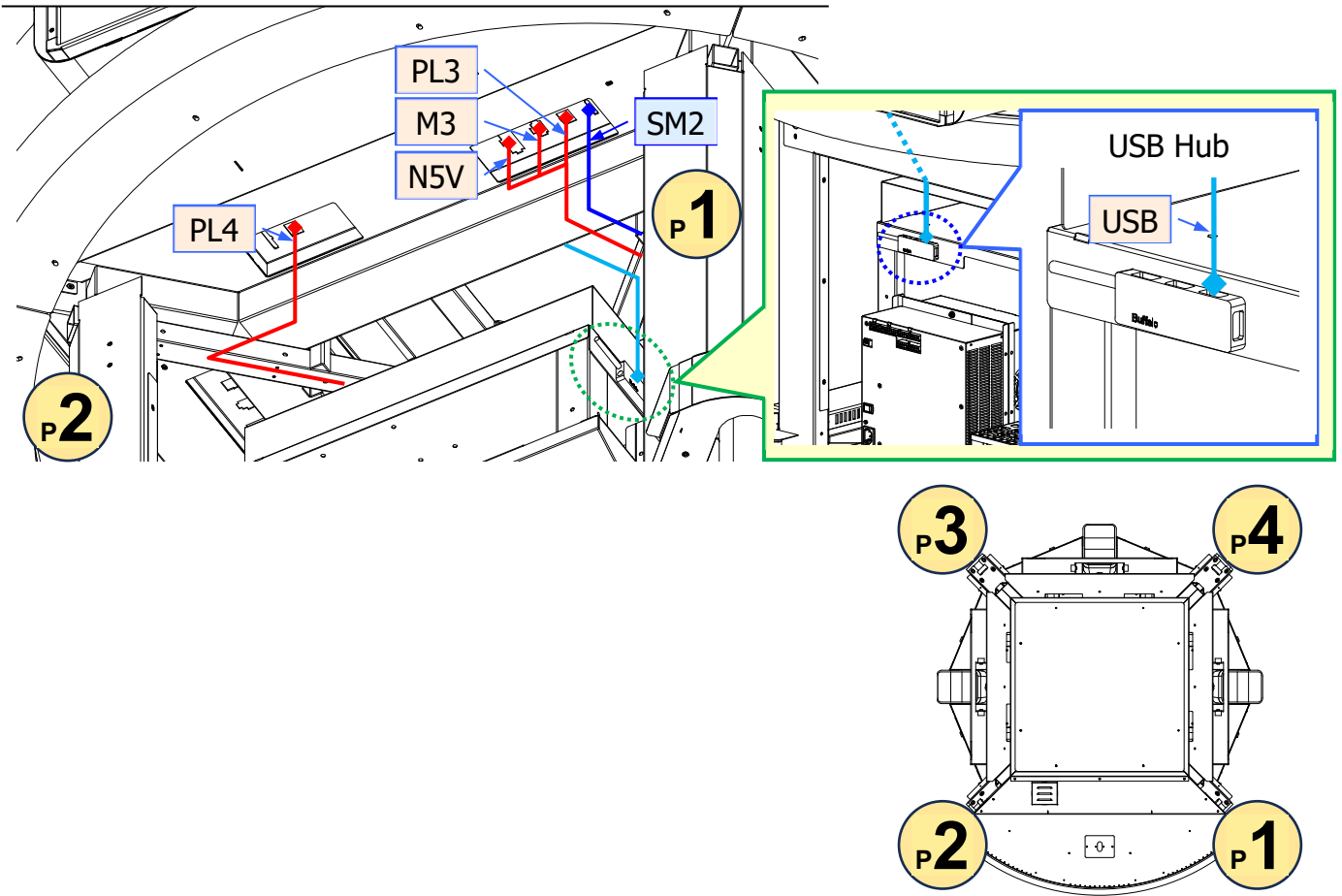


5. Affix the Top PID Unit using 3 screws. Perform the procedure from the bottom side of the Top Sign Unit, through the hole of the PID Frame Unit illustrated below.

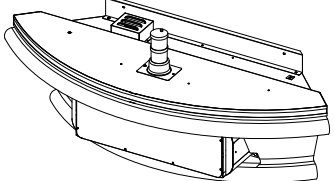
Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	3	



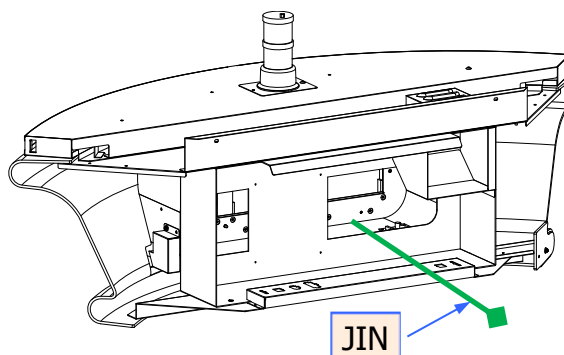
6. Refer to the illustration below to connect the Connector of the PID Frame Unit to the Top PID Unit, and the USB Cable of the Top PID Unit to the USB Hub of the PID Frame Unit.



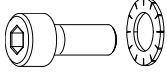
7. Prepare the following Parts.

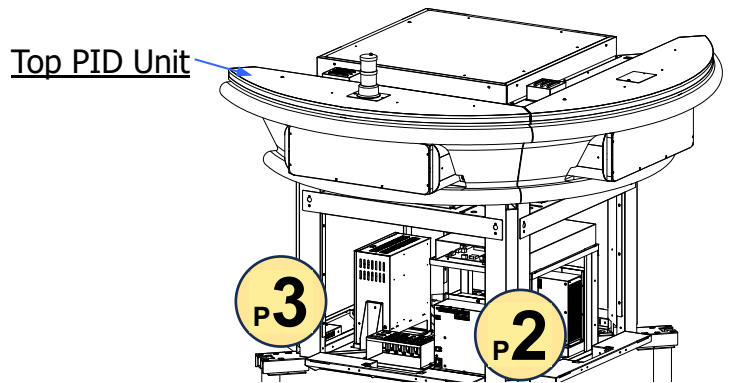
Parts Name	Qty	Appearance
Top PID Unit: for Tower Light (with [JIN] Connector Cable) (Assembled 3.2.1.3)	1	

8. Locate the [JIN] Connector on the back side of the Top PID Unit, and arrange the cable so that it will not get in the way during the procedure.

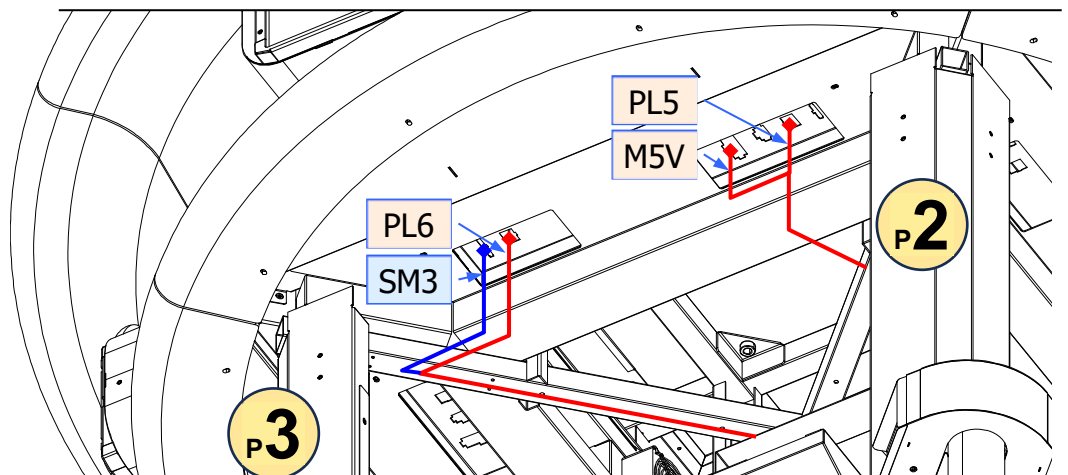


- Follow the same procedure described at STEPs 3, 4 and 5, hanging the hook placed behind the Top PID Unit, to the frame of the PID Frame Unit on the side of Pole 2 and Pole 3, and fasten with screws.

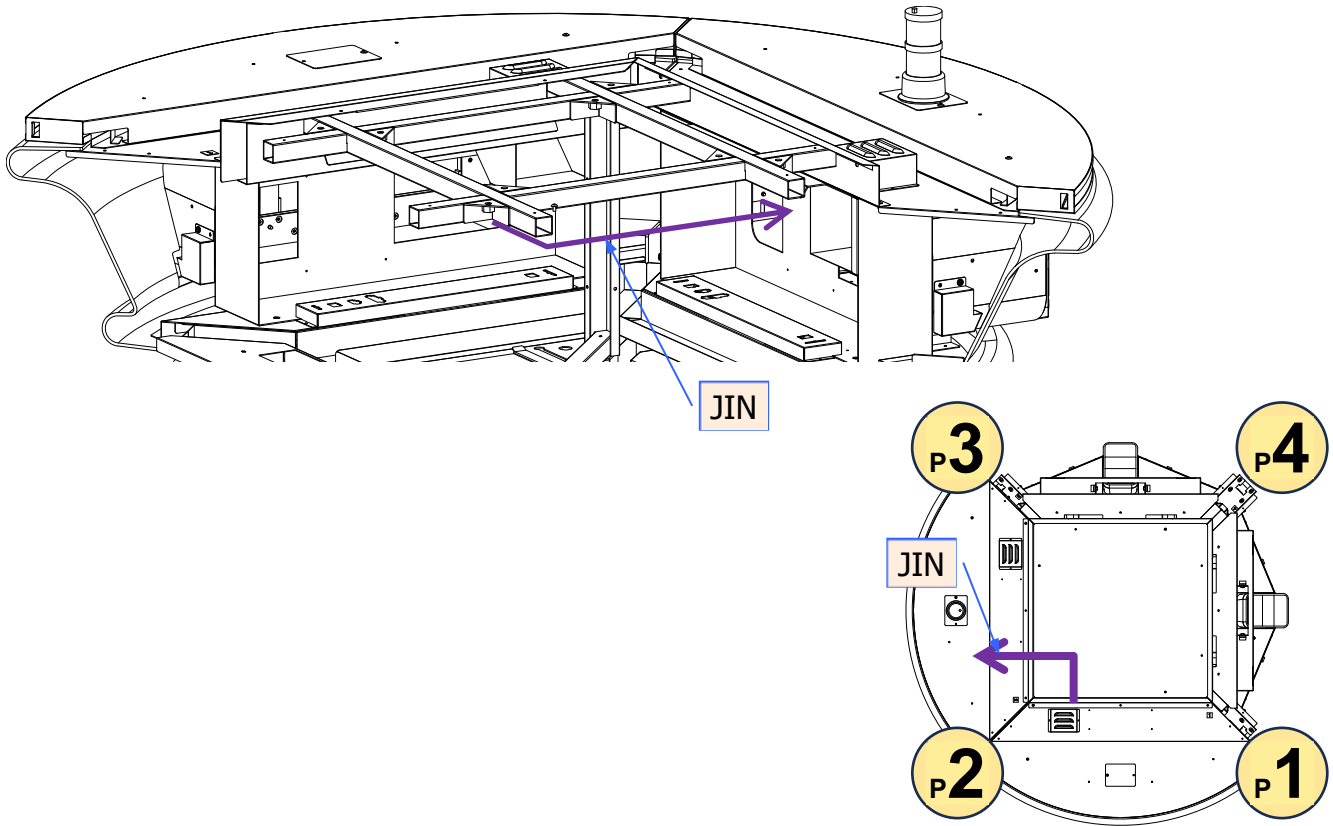
Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	5	



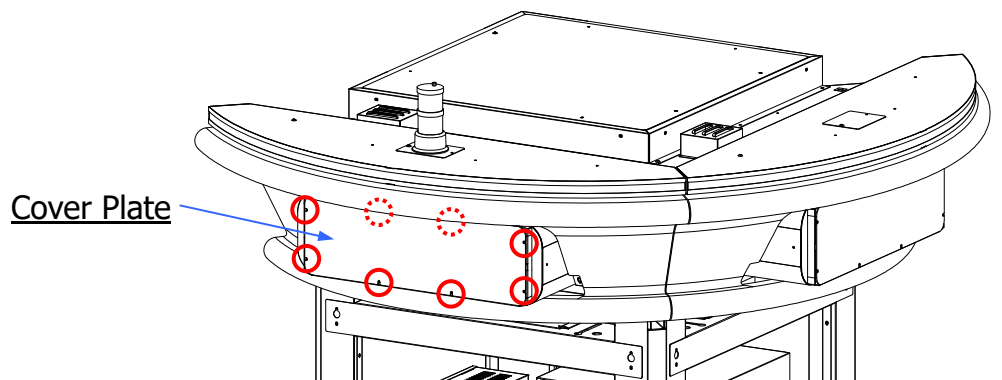
- Refer to the illustration below to connect the Connector of the PID Frame Unit to the Top PID Unit.



11. Insert the [JIN] Connector of the Top PID Unit (with SIG B(MTX) PCB) that was checked at STEP 2, inside the Top PID Unit that was installed at STEP 9.



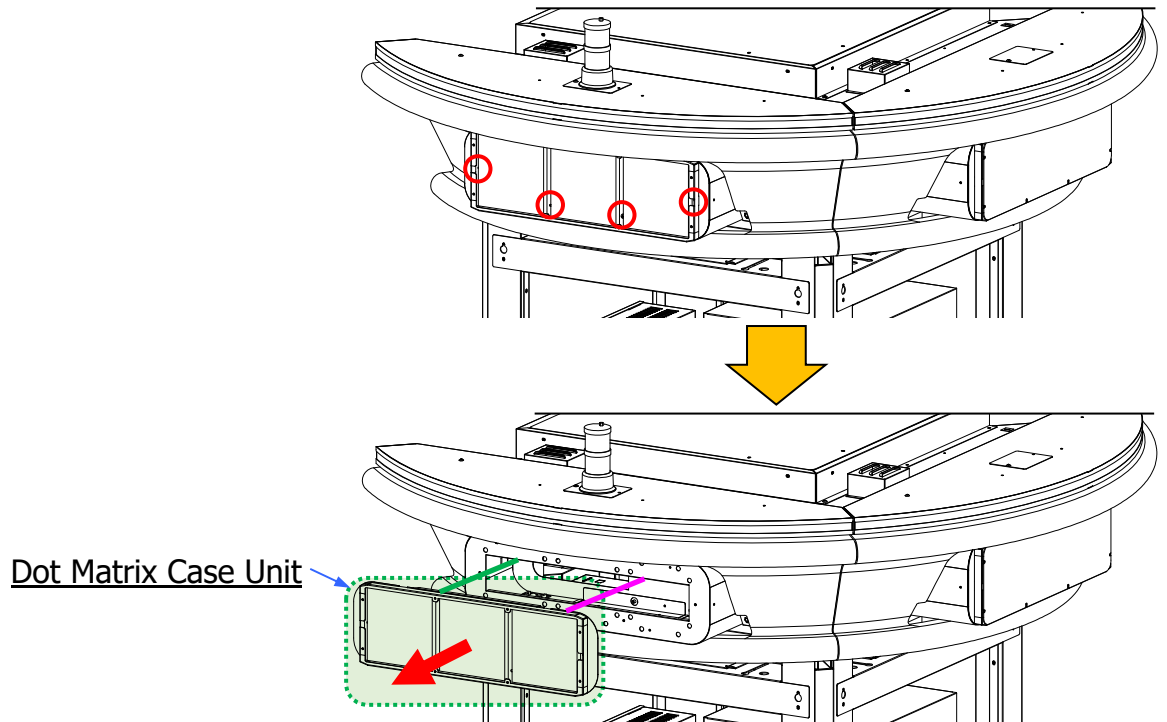
12. Remove 8 screws from the Top PID Unit that was installed at STEP 9, to detach the Cover Plate.



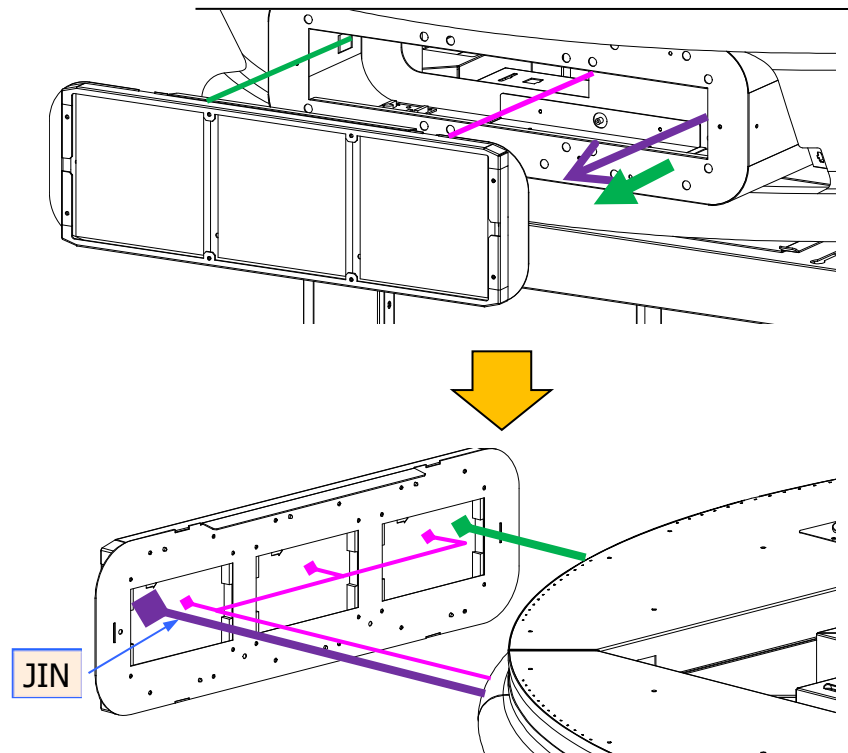
13. Remove 4 screws to pull out the Dot Matrix Case Unit.

**CAUTION!**

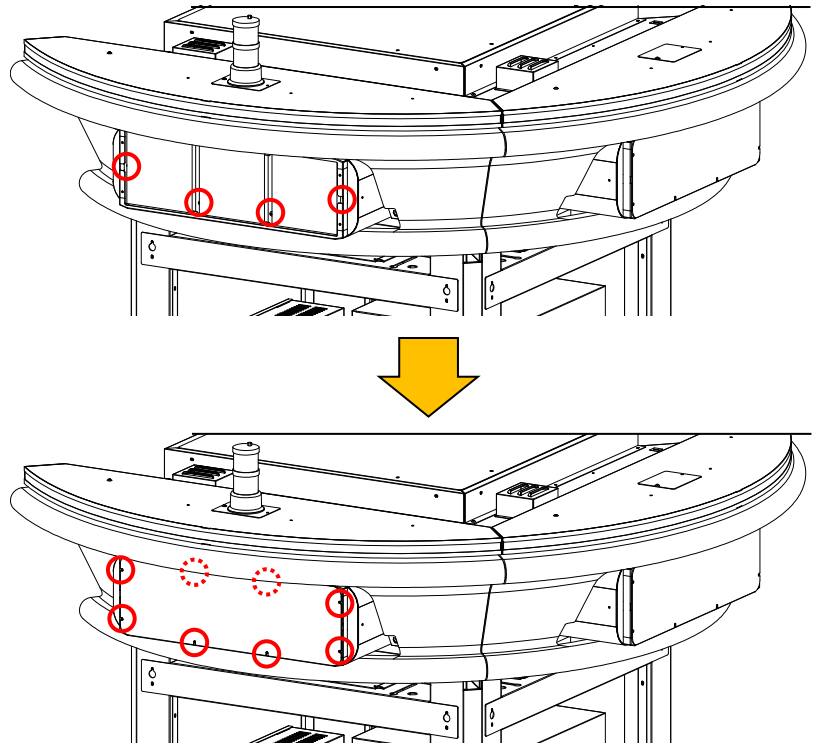
There are connected cables on the back side of the Dot Matrix case. Pay attention.



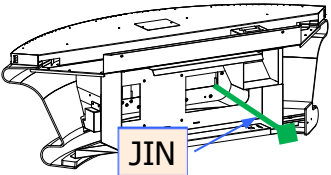
14. Pull outside the [JIN] Connector that was placed at STEP 11, and plug it to the Connector on the back side of the Dot Matrix Case Unit.



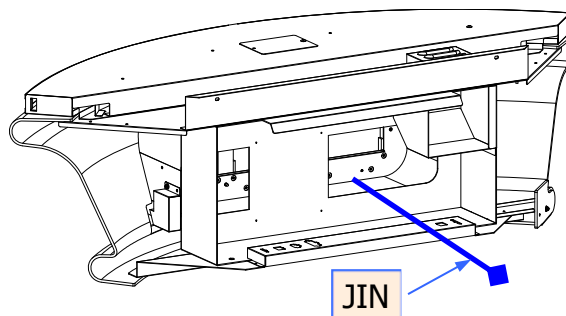
15. While paying attention not to pinch the cables, return the Dot Matrix Case Unit and the Cover Plate to their original position.



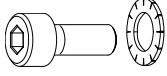
16. Prepare the following Parts.

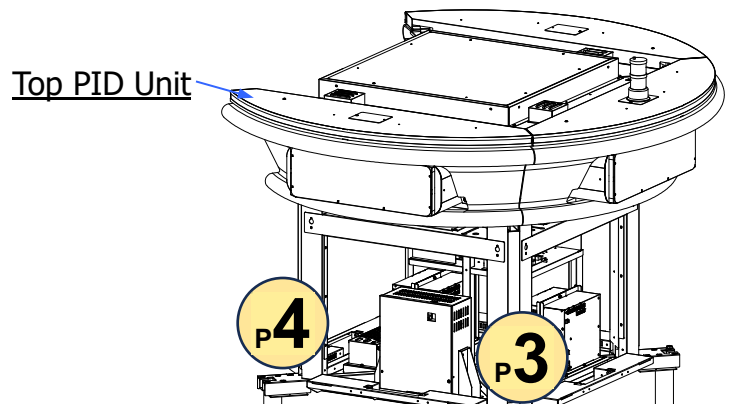
Parts Name	Qty	Appearance
Top PID Unit (with [JIN] Connector Cable)	1	

17. Locate the [JIN] Connector on the back side of the Top PID Unit, and arrange the cable so that it will not get in the way during the procedure.

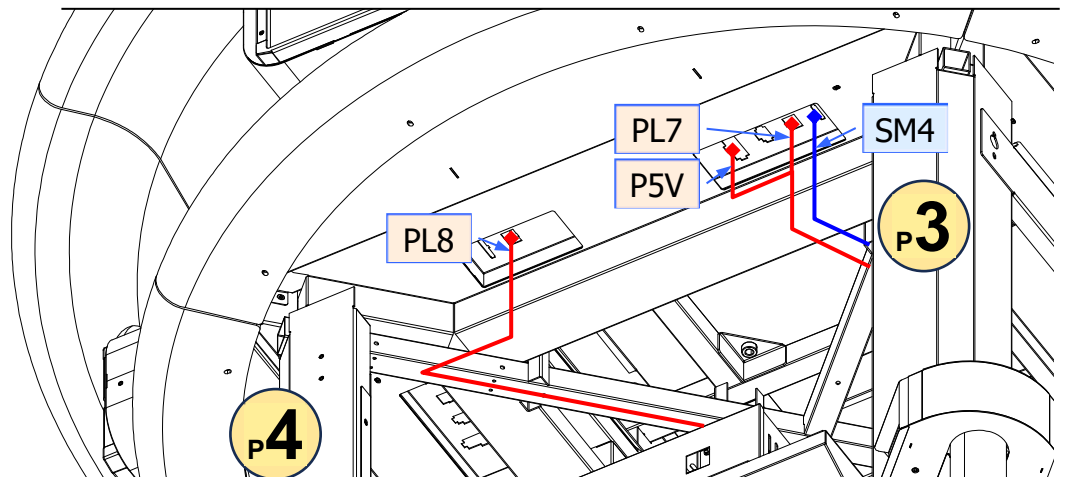


18. Follow the same procedure described at STEPs 3, 4 and 5, hanging the hook placed behind the Top PID Unit, to the frame of the PID Frame Unit on the side of Pole 3 and Pole 4, and fasten each with screws.

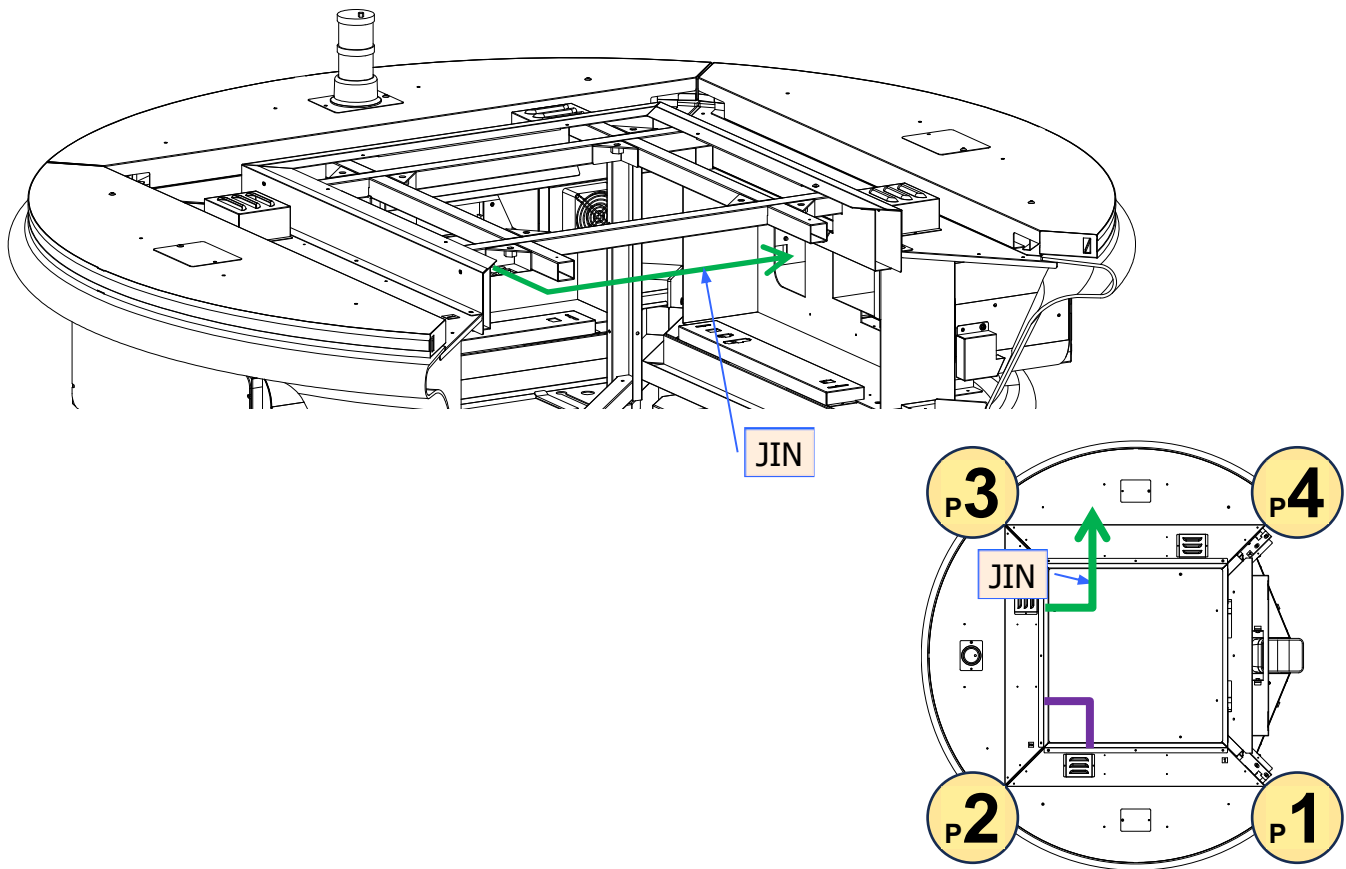
Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	5	



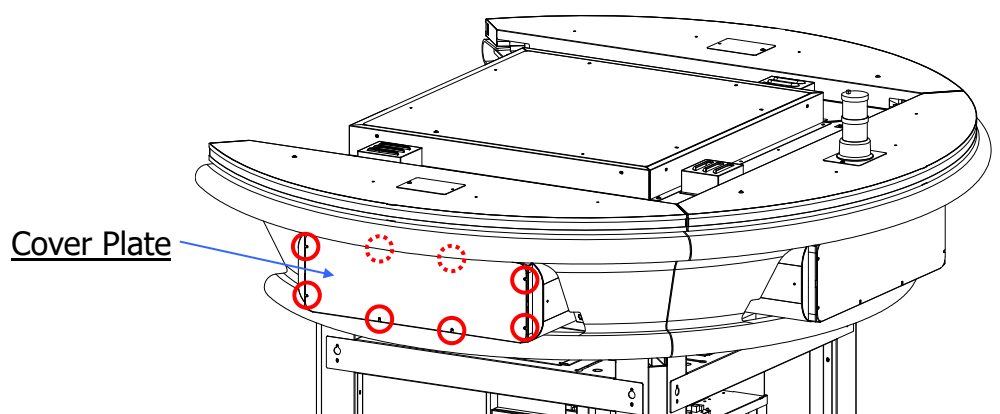
19. Refer to the illustration below to connect the Connector of the PID Frame Unit to the Top PID Unit.



20. Insert the [JIN] Connector of the Top PID Unit (with JIN Connector Cable) that was checked at STEP 8, inside the Top PID Unit that was installed at STEP 18.



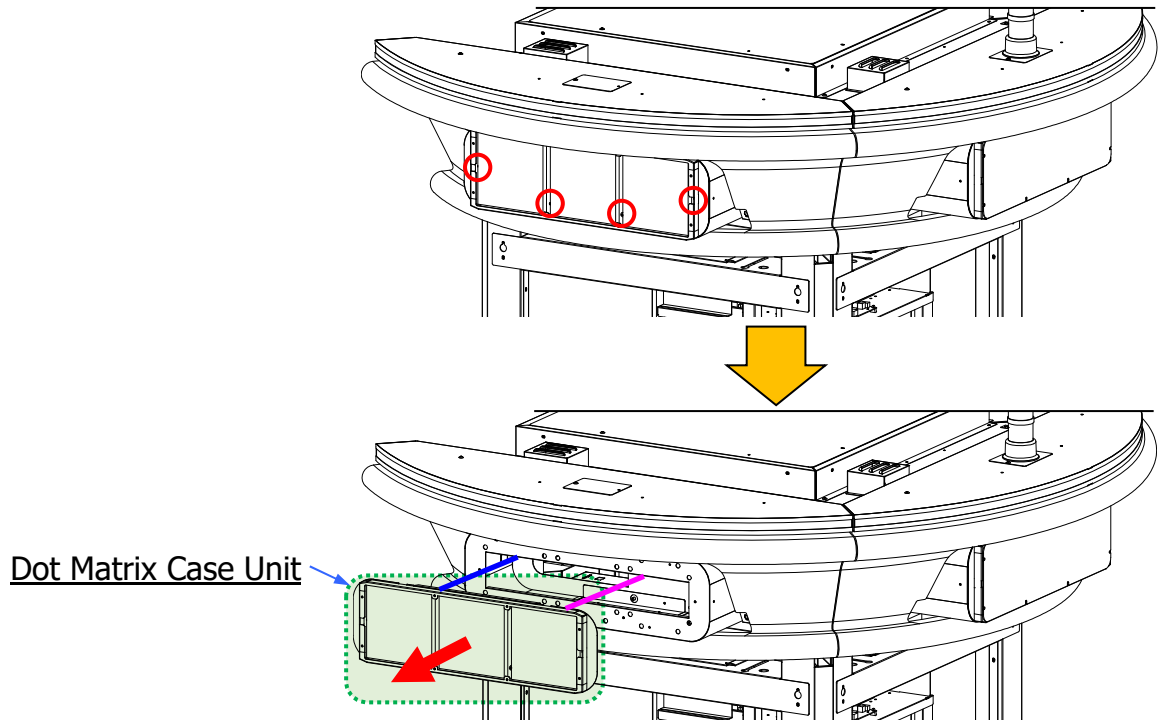
21. Remove 8 screws from the Top PID Unit that was installed at STEP 18, to detach the Cover Plate.



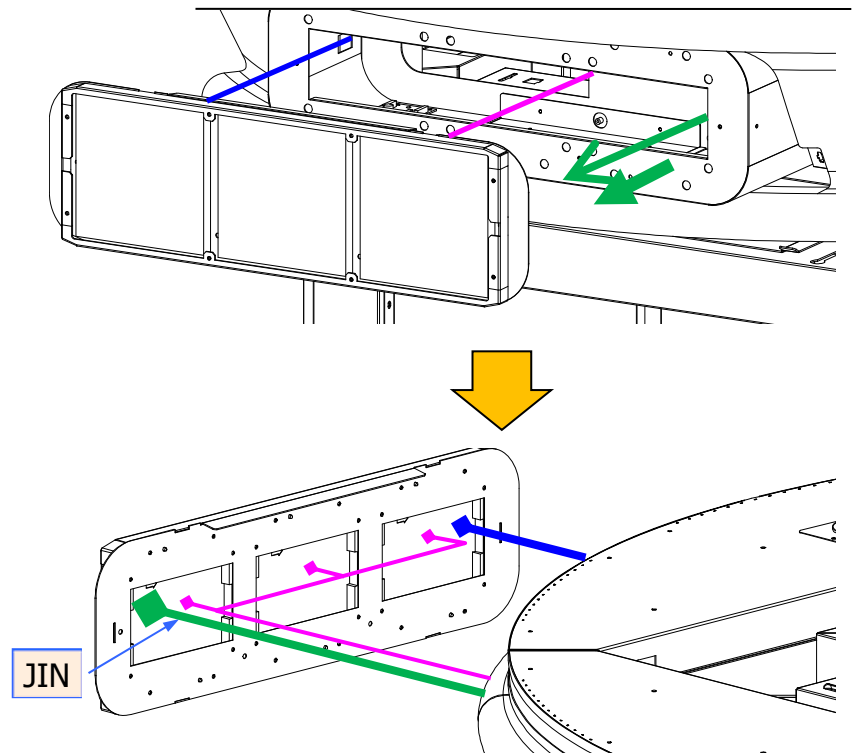
22. Remove 4 screws to pull out the Dot Matrix Case Unit.

**CAUTION!**

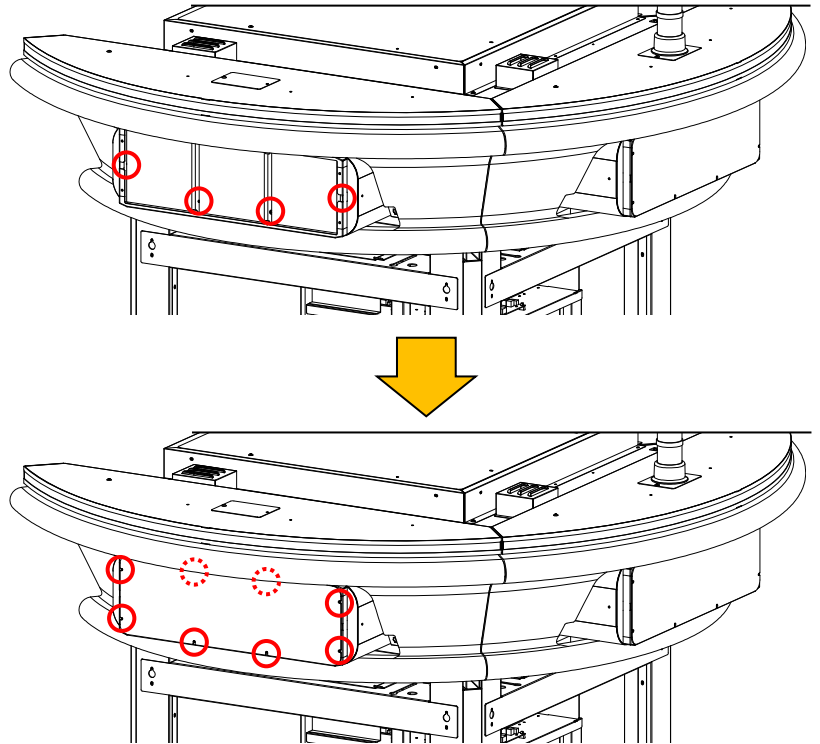
There are connected cables on the back side of the Dot Matrix case. Pay attention.



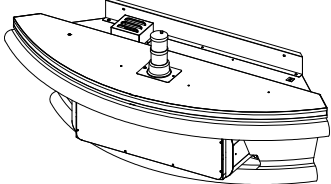
23. Pull outside the [JIN] Connector that was placed at STEP 20, and plug it to the Connector on the back side of the Dot Matrix Case Unit.



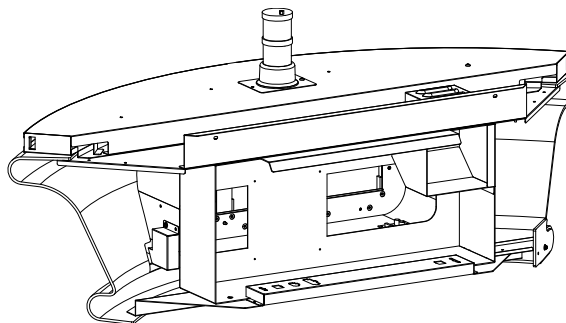
24. While paying attention not to pinch the cables, return the Dot Matrix Case Unit and the Cover Plate to their original position.



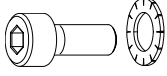
25. Prepare the following Parts.

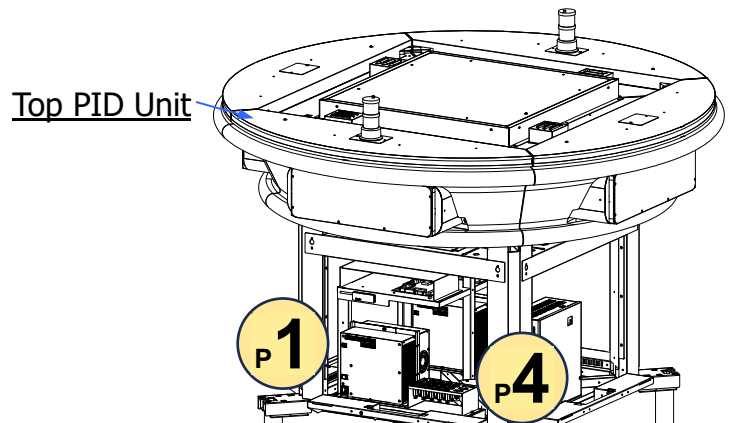
Parts Name	Qty	Appearance
Top PID Unit: for Tower Light (without [JIN] Connector Cable) (Assembled 3.2.1.3)	1	

26. Last, install the Top PID Unit that is not connected by any [JIN] Connector Cable.

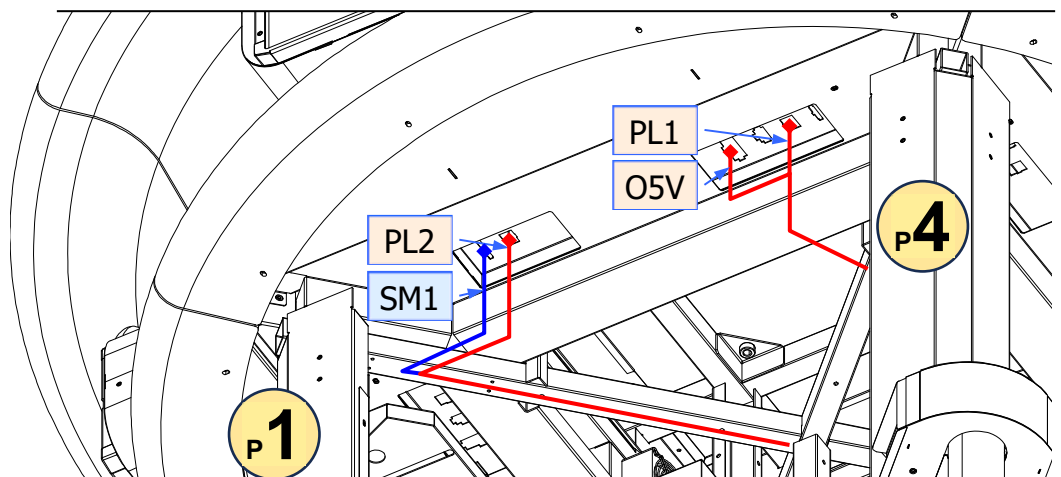


27. Follow the same procedure described at STEPs 3, 4 and 5, hanging the hook placed behind the Top PID Unit, to the frame of the PID Frame Unit on the side of Pole 1 and Pole 4, and fasten each with screws.

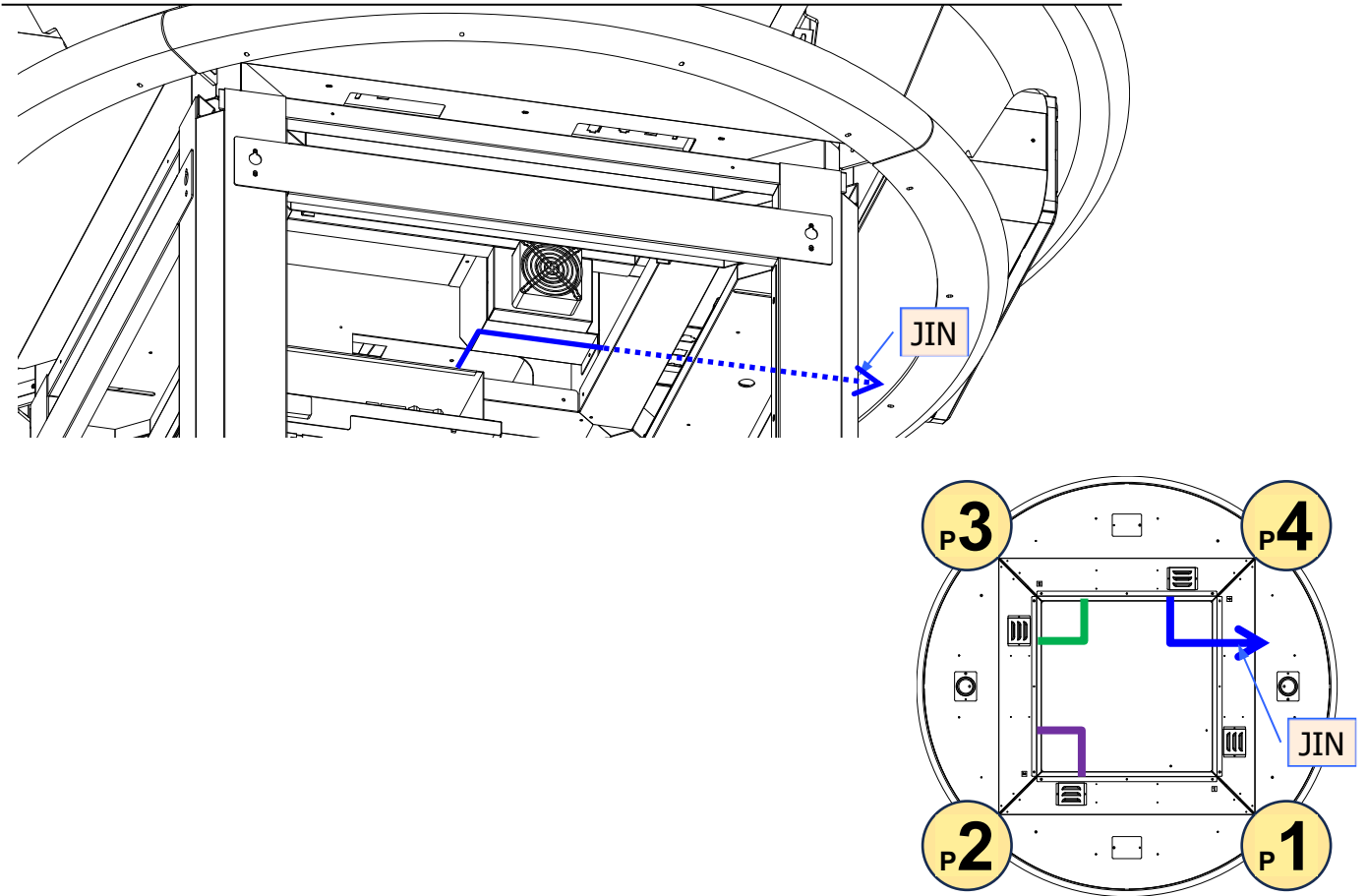
Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	5	



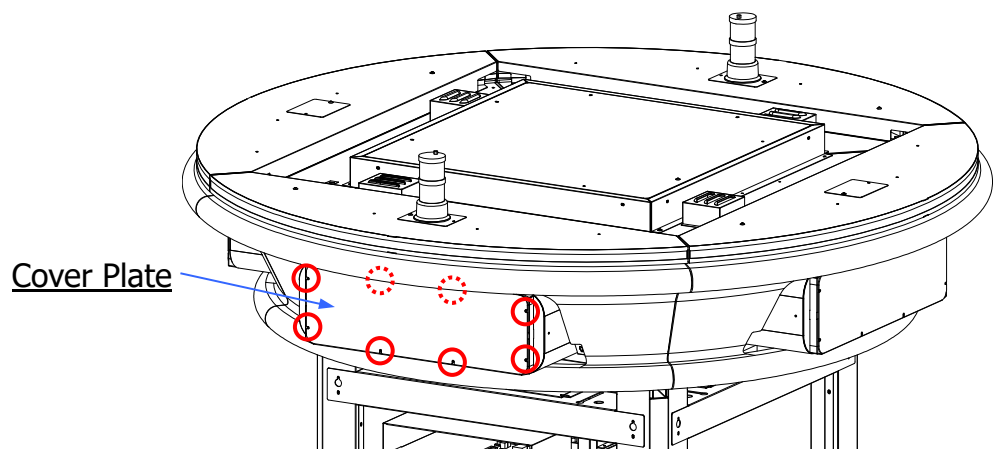
28. Refer to the illustration below to connect the Connector of the PID Frame Unit to the Top PID Unit.



29. Insert the [JIN] Connector of the Top PID Unit (without SIG B(MTX) PCB) that was checked at STEP 17, inside the Top PID Unit that was installed at STEP 27.



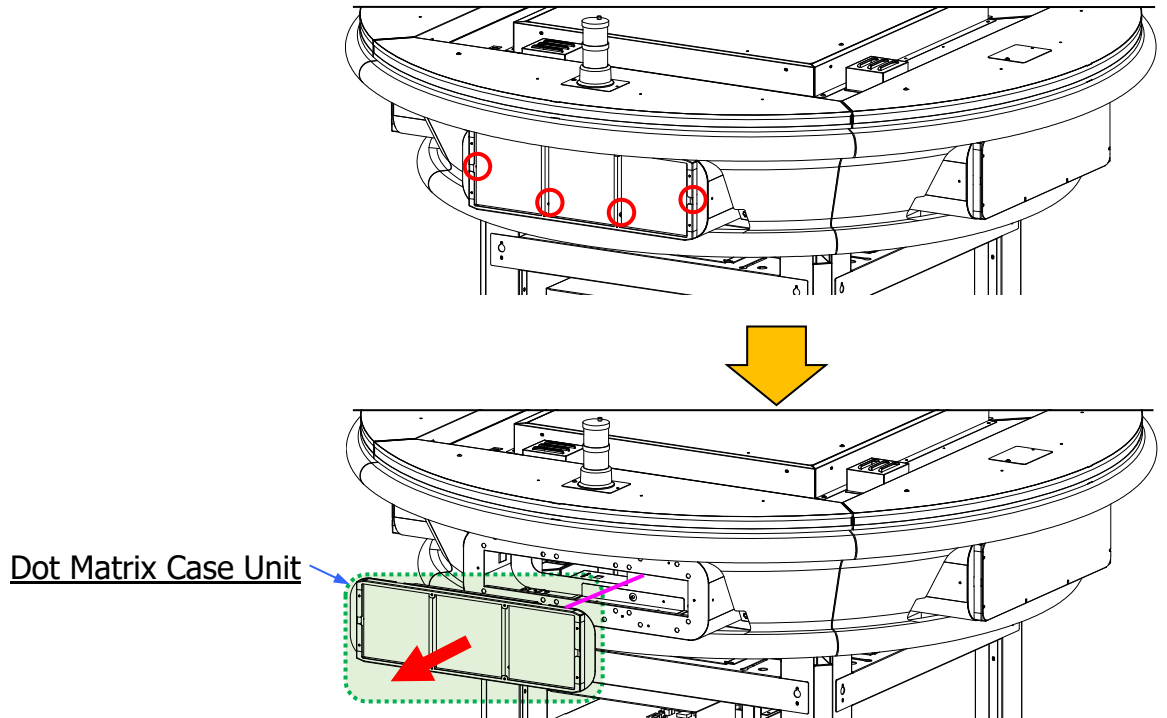
30. Remove 8 screws from the Top PID Unit that was installed at STEP 27, to detach the Cover Plate.



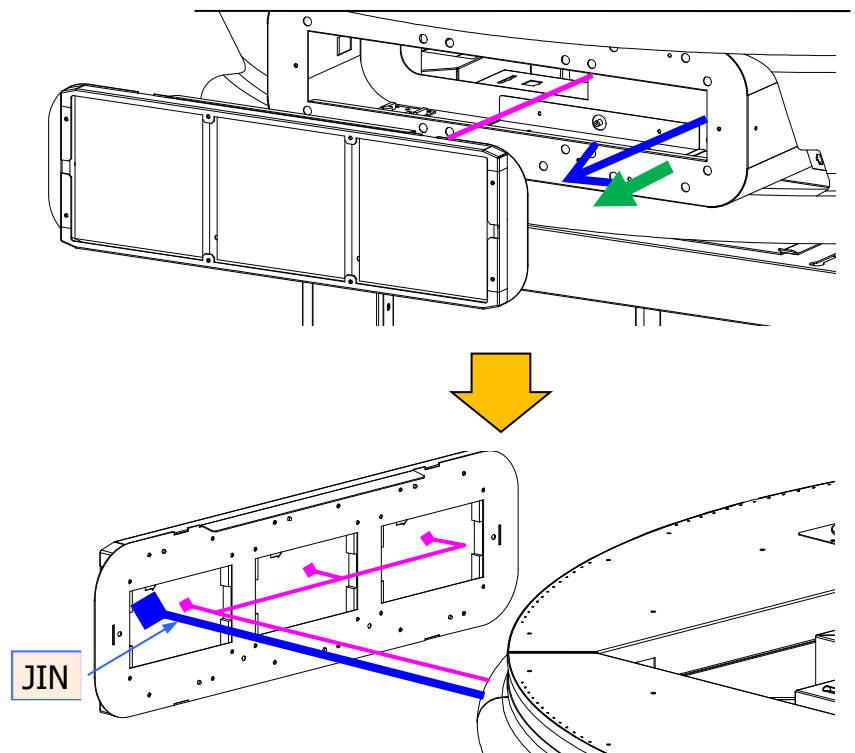
31. Remove 4 screws to pull out the Dot Matrix Case Unit.

⚠ CAUTION!

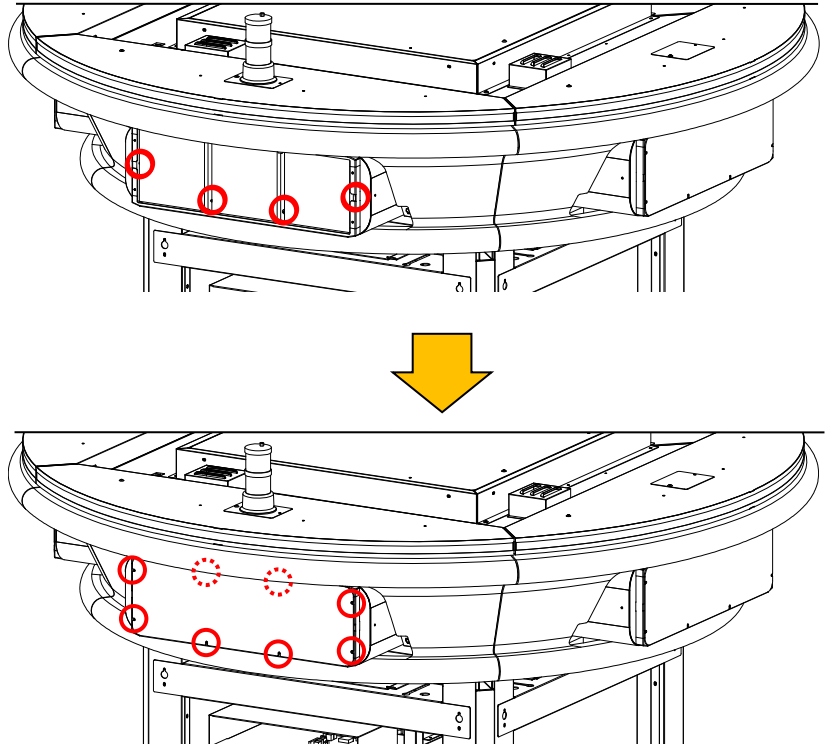
There are connected cables on the back side of the Dot Matrix case. Pay attention.



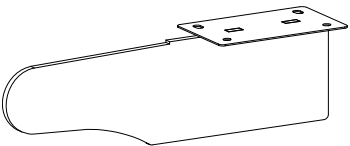
32. Pull outside the [JIN] Connector that was placed at STEP 29, and plug it to the Connector on the back side of the Dot Matrix Case Unit.



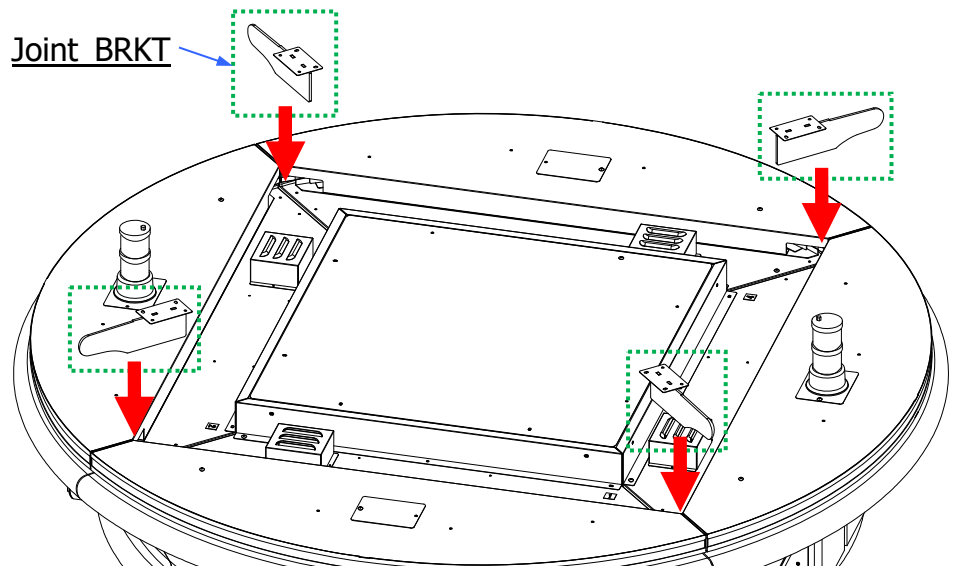
33. While paying attention not to pinch the cables, return the Dot Matrix Case Unit and the Cover Plate to their original position.



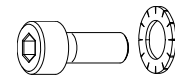
34. Prepare the following Parts.

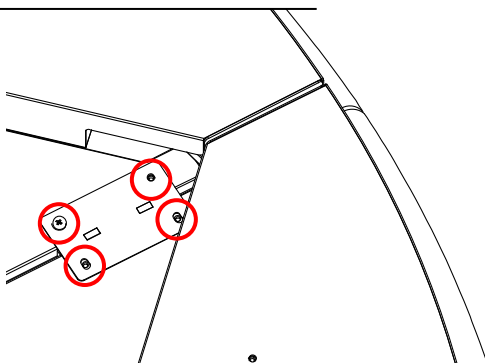
Parts Name	Qty	Appearance
Joint BRKT	4	

35. Insert the Joint BRKT inside the gap between the adjacent Top PID Units.

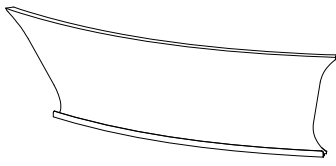
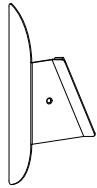
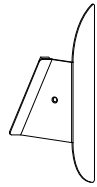


36. Screw down the Joint BRKT by using the 4 screws for each.

Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	4	




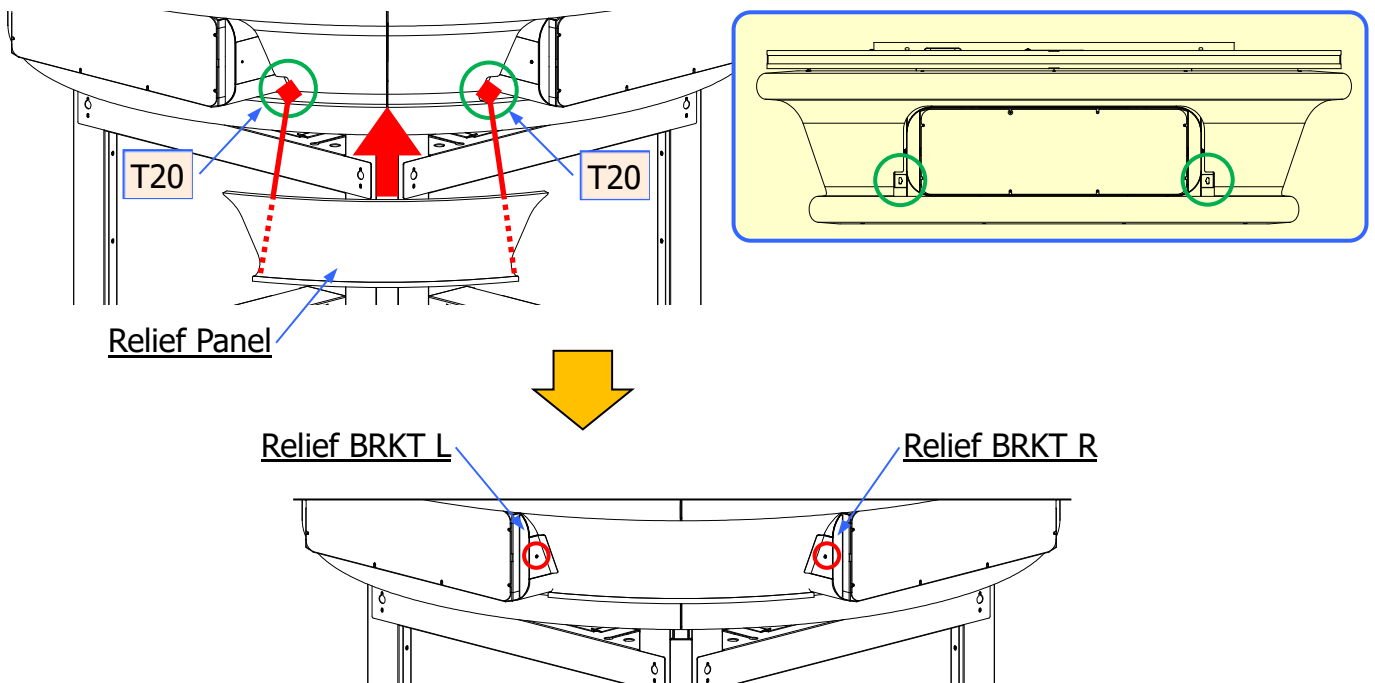
37. Prepare the following Parts.

Parts Name	Qty	Appearance
Relief Panel	4	
Relief BRKT L	4	
Relief BRKT R	4	

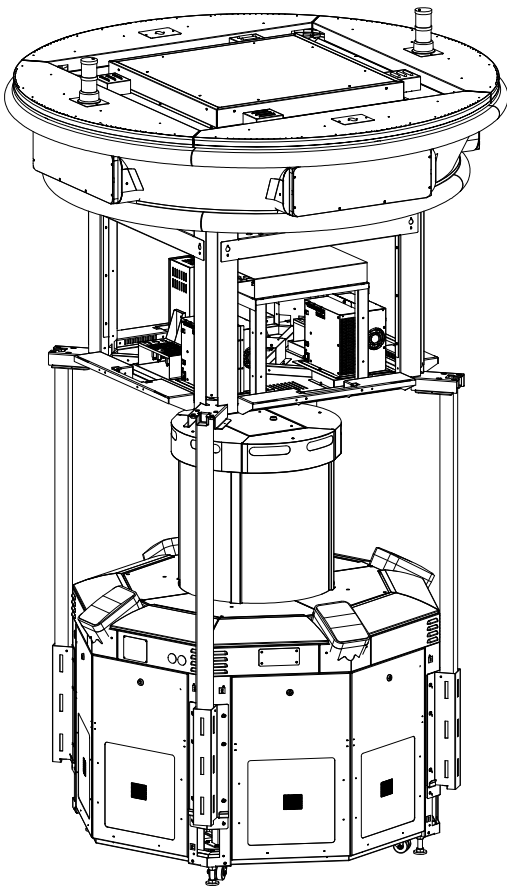
38. Join each [T20] Connector of the Relief Panel to the Connectors on each side of the opposite Dot Matrix Units of the adjacent Top PID Units.

Hold the Relief Panel using the Relief BRKT L and Relief BRKT R, and then affix them by using 1 screw on each.

Fasteners		Qty	Appearance
C	SMALL FLAT M4x8 BLK	8	



At this point the machine should look like this.

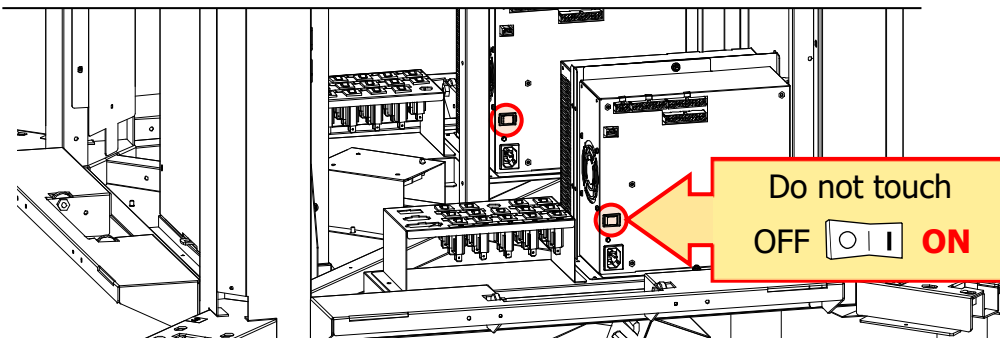
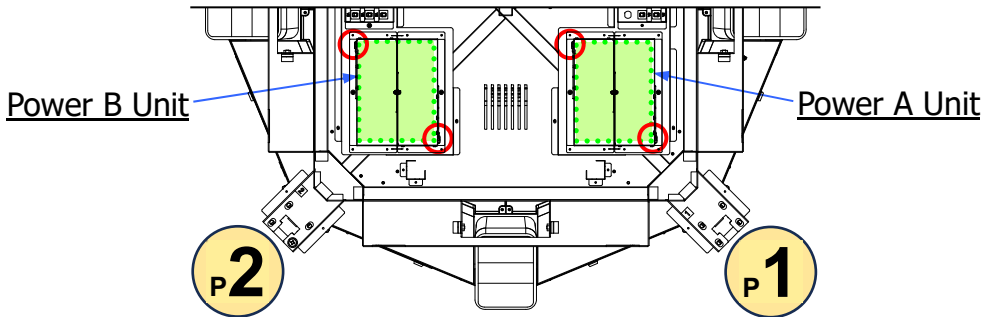


3. 2. 1. 5: Installing Covers and LCD Units onto PID Frame Unit

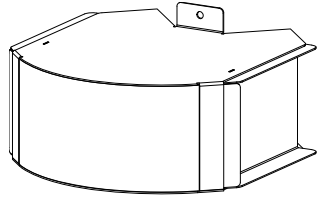
CAUTION!

Before the installation of the LCD Unit, make sure that the 4 Switches of the Power A Unit and Power B Unit, that are inside the PID Unit, are switched to ON.

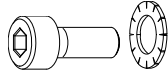
Please leave this switch on ON and do not change its status.

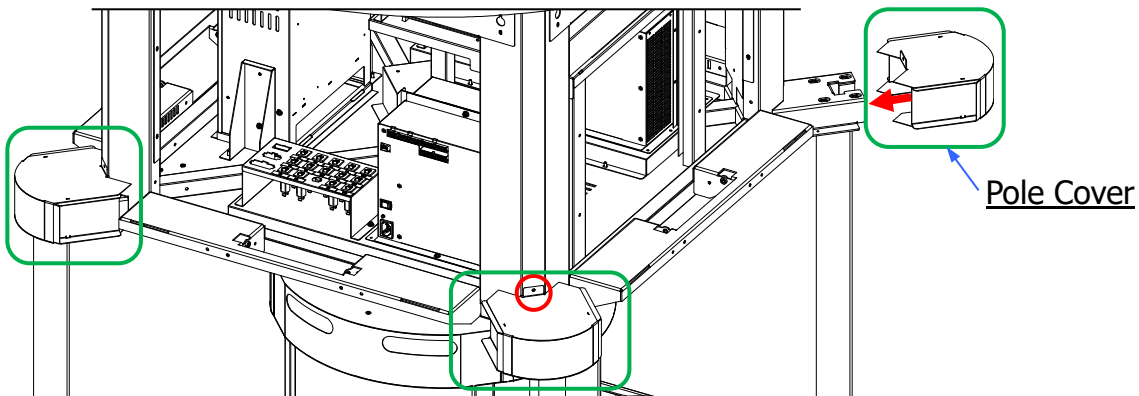


1. Prepare the following Parts.


Parts Name		Qty	Appearance
Pole Cover		4	

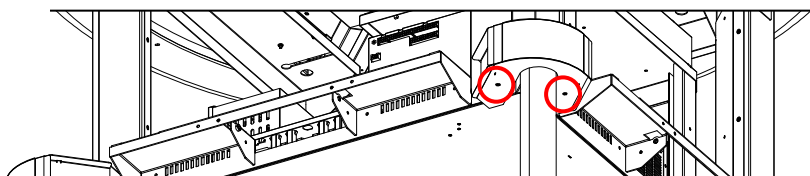
2. Fix the Pole Covers to each Pole of the PID Frame Unit by using a screw for each.

Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	4	

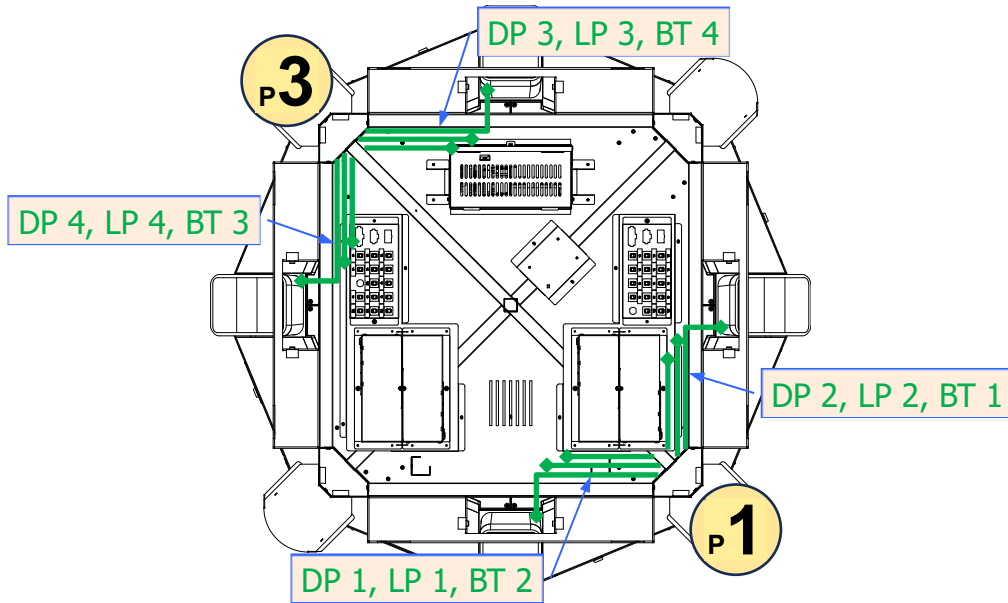


3. Screw the Pole Cover onto the PID Frame Unit from the bottom of the Pole Cover by using the 2 screws for each.

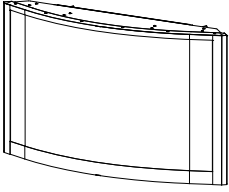
Fasteners		Qty	Appearance
C	SMALL FLAT M4x8 BLK	8	



4. Locate the DP1(DP 2, DP 3, DP 4) Cables, [LP1(LP 2, LP 3, LP 4)] and [BT 2(BT 1, BT 3, BT 4)] Connectors previously placed inside the PID Frame Unit.

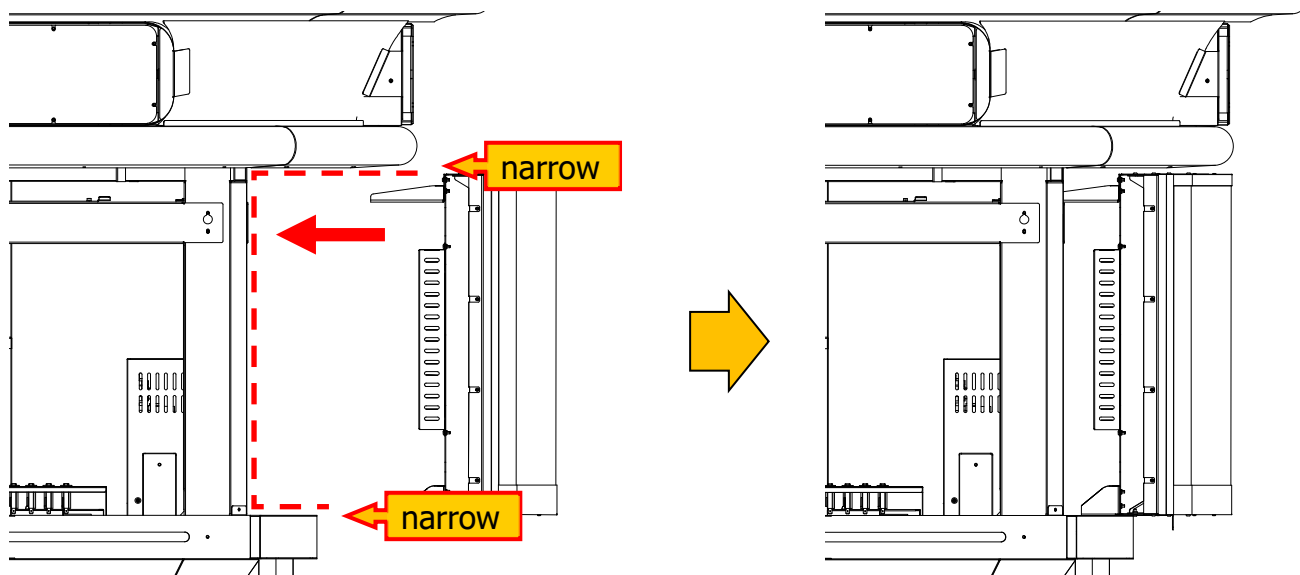
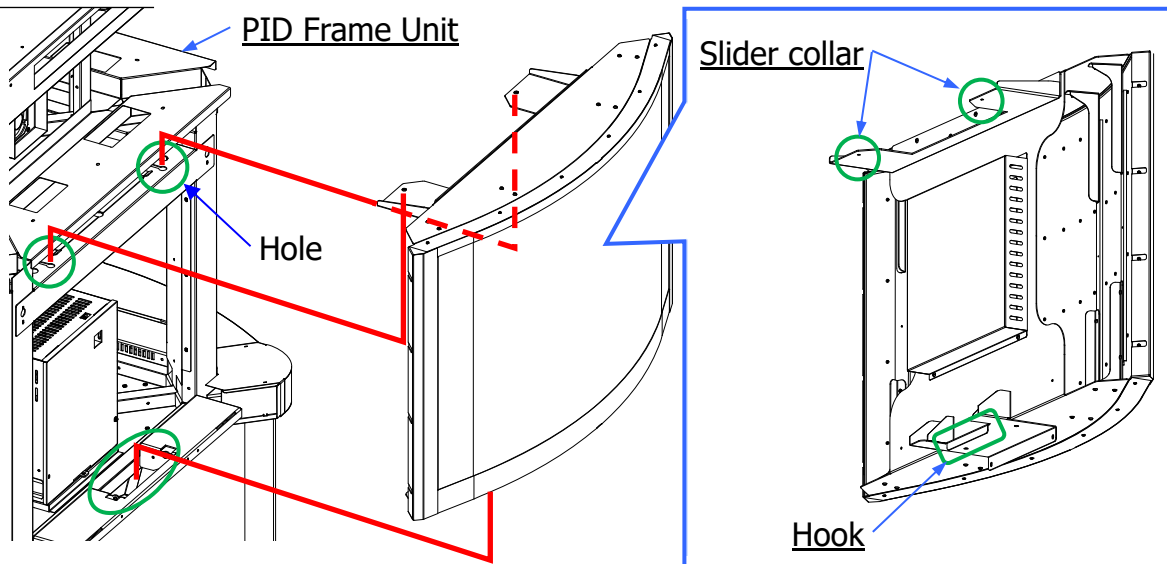


5. Prepare the following Parts.

Parts Name	Qty	Appearance
LCD Unit	4	

6. Insert the Slider collar and the Hook of the LCD Unit inside the holes of the PID Frame Unit, to install the LCD Unit.

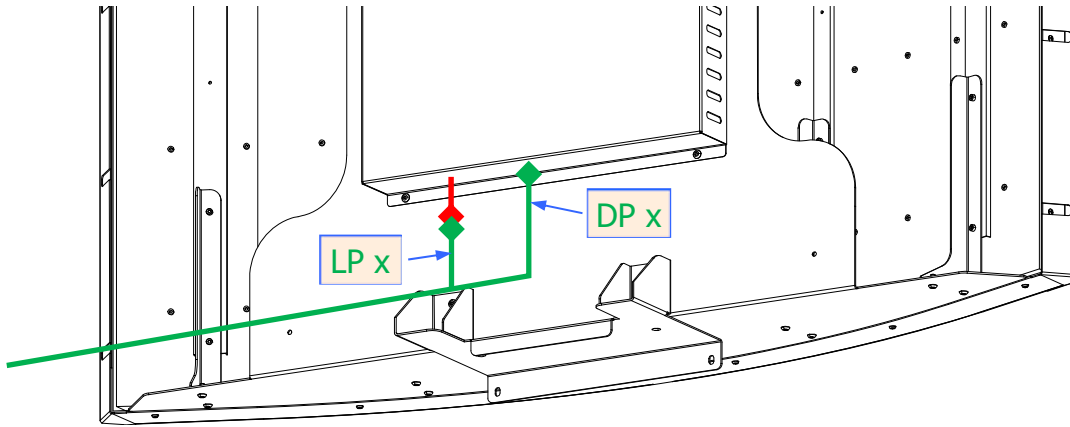
i NOTE:
Pay attention to the narrow parts to assembly.



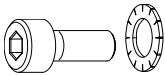
7. Refer to the illustration to connect each DP Cable and [LP] Connector that was located at STEP 4, to the connectors on the back side of the LCD Units.

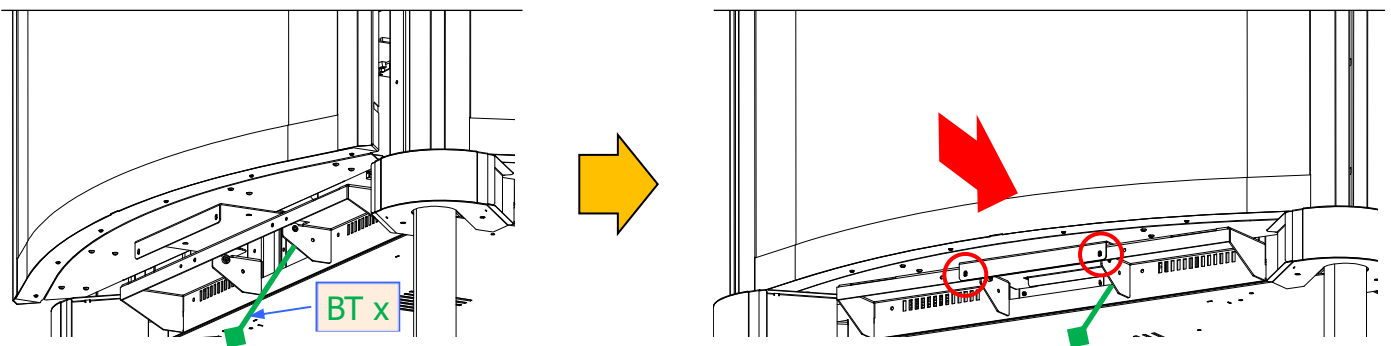
⚠ CAUTION!

Pay attention not to drop the LCD Unit during the procedure.

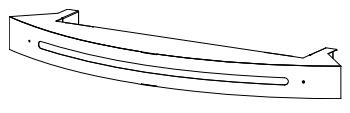


8. Pull out the remaining [BT] Connecters from the hole of each PID Frame Unit then, while paying attention not to pinch the cables, insert the LCD Units in the PID Frame Unit, and finally affix them by using the 2 screws for each.

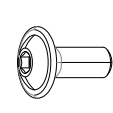
Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	8	

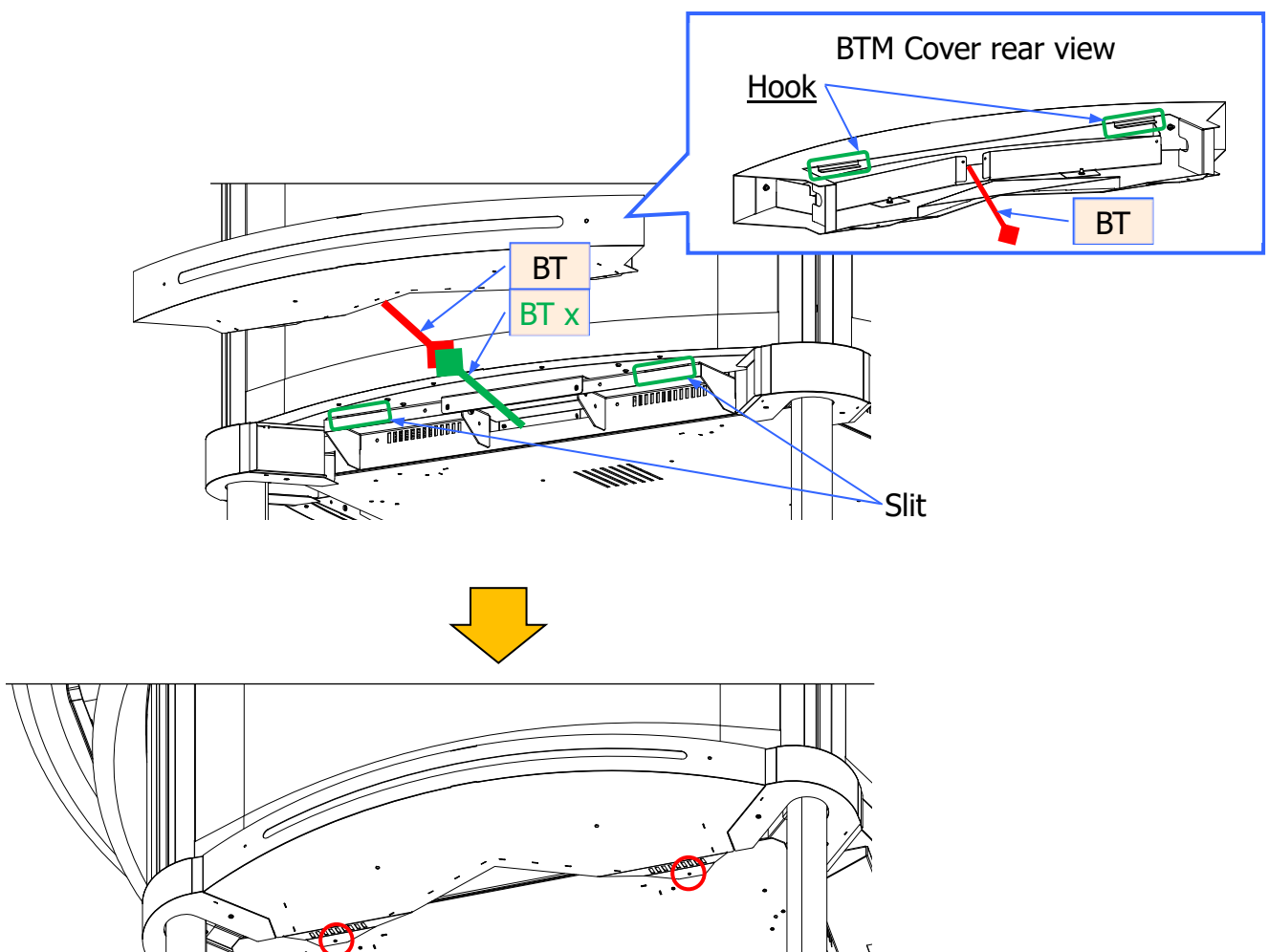


9. Prepare the following Parts.

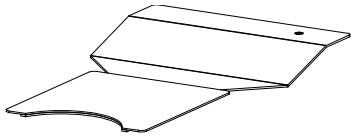
Parts Name	Qty	Appearance
BTM Cover	4	

10. Connect the Connector of the BTM Covers to each BT Cable of the PID Frame Unit, then insert the hook of the BTM Cover in the slit of the PID Frame Unit and finally affix with 2 screws on each.


Fasteners	Qty	Appearance
A HEXAGON SOCKET BUTTON with FLANGE M4x10	8	

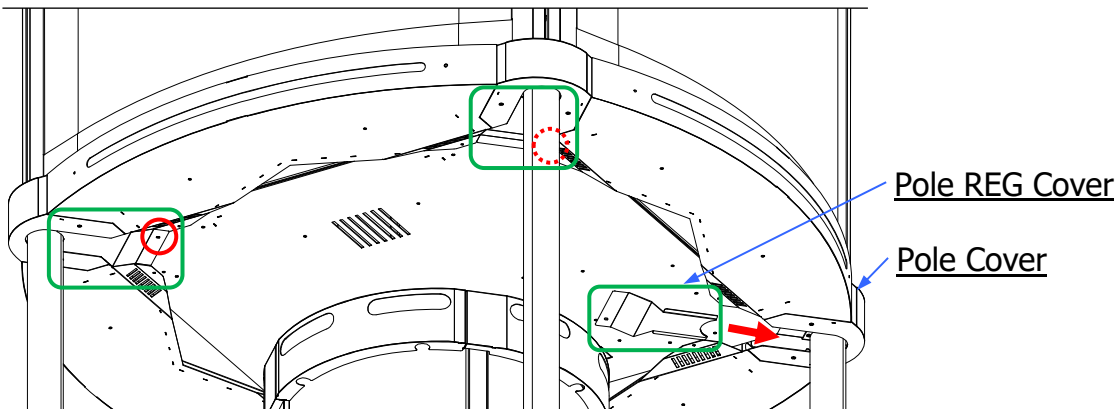


11. Prepare the following Parts.

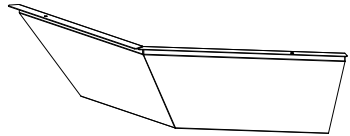
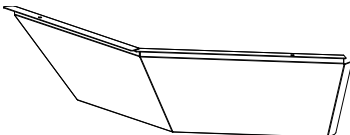
Parts Name	Qty	Appearance
Pole REG Cover	4	

12. From the back, insert a Pole REG Cover on the bottom side of each Pole Cover, and fix them using 1 screw for each.

	Fasteners	Qty	Appearance
C	SMALL FLAT M4x8 BLK	4	

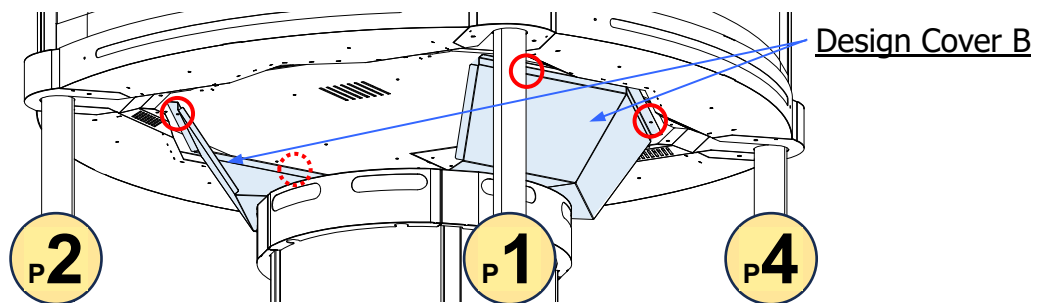


13. Prepare the following Parts.

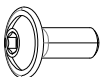
Parts Name	Qty	Appearance
Design Cover A	2	
Design Cover B	2	

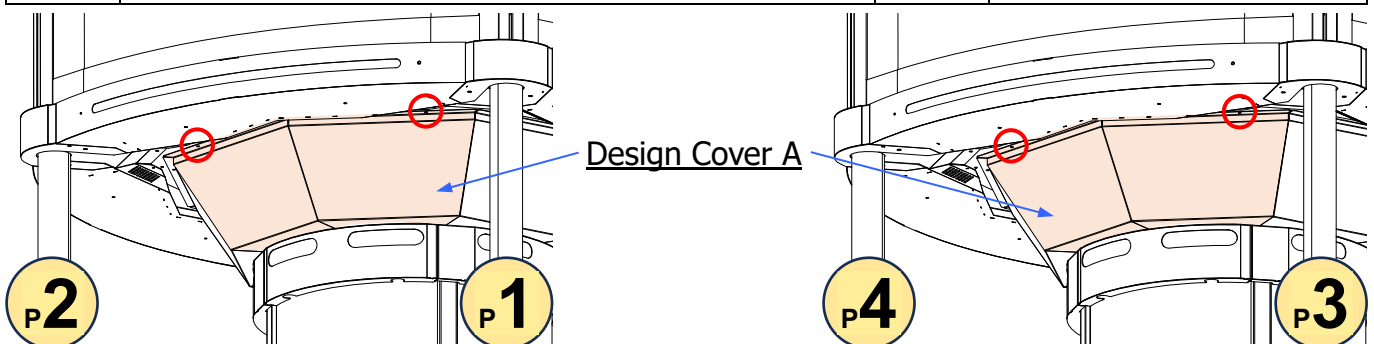
14. Affix the Design Covers B to the bottom of the PID Frame Unit on the side of Pole 1 and Pole 4, and to the side of Pole 2 and Pole 3, and affix with 2 screw each.

Fasteners		Qty	Appearance
A	HEXAGON SOCKET BUTTON with FLANGE M4x10	4	



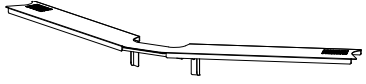
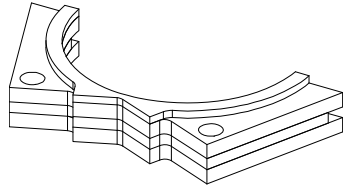
15. Affix the Design Covers A to the bottom of the PID Frame Unit on the side of Pole 1 and Pole 2, and to the side of Pole 3 and Pole 4, and affix with 2 screw each.

Fasteners		Qty	Appearance
A	HEXAGON SOCKET BUTTON with FLANGE M4x10	4	

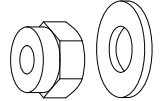


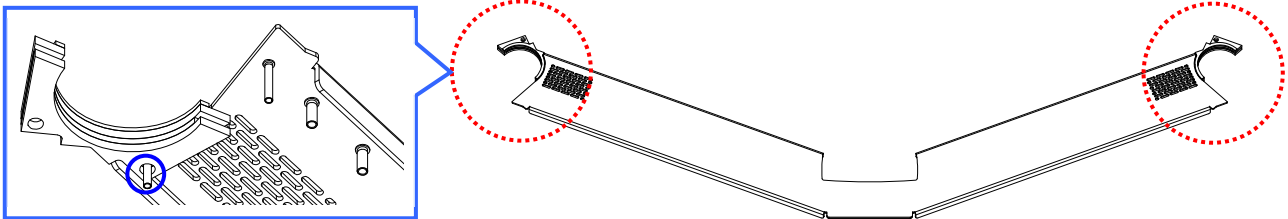
3. 2. 1. 6: Installing Center Unit Gap Cover

1. Prepare the following Parts.

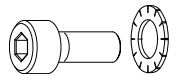
Parts Name	Qty	Appearance
Joint BRKT B Unit	2	
Joint BRKT C (for High PID)	4	

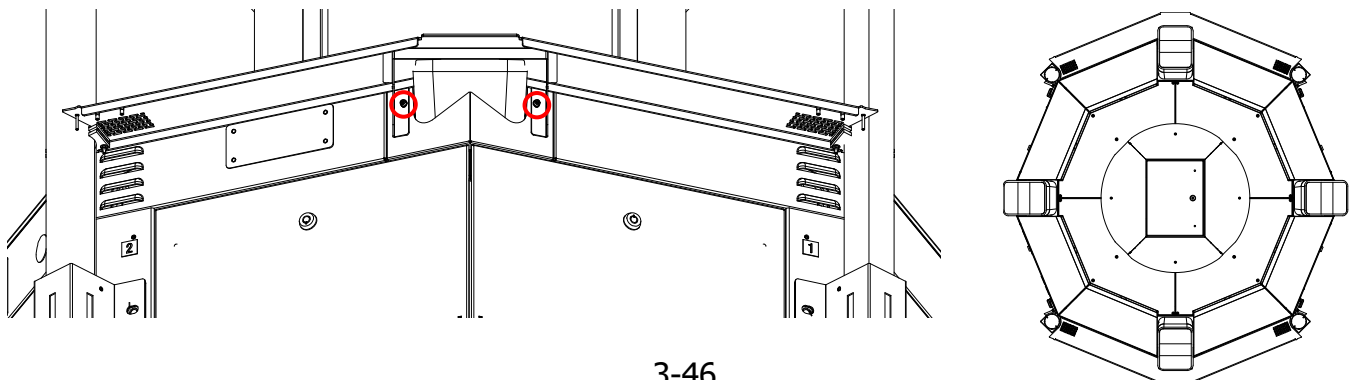
2. Use 1 nut on each of the Joint BRKT C (for High PID) to affix them to both edges of the Joint BRKT B Units.

Fasteners	Qty	Appearance
F NUT M3 DIN 985 WIDE WASHER 3 DIN 902	4	

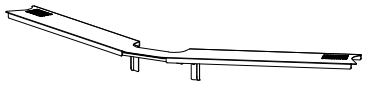
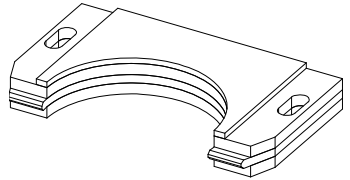


3. Affix the Joint BRKT B Units at the opposite sides of the Center Unit, by using 2 screws on each.

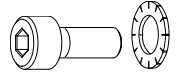
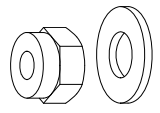
Fasteners	Qty	Appearance
B HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	4	

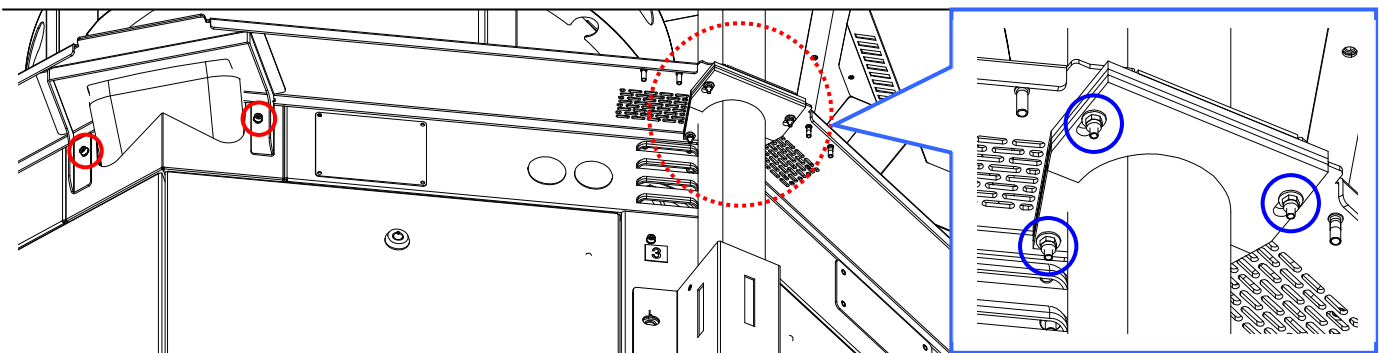


4. Prepare the following Parts.

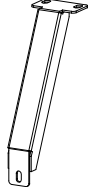
Parts Name	Qty	Appearance
Joint BRKT B Unit	2	
Joint BRKT D (for High PID)	4	

5. Install the remaining Joint BRKT B Units to the Center Unit, together with the Joint BRKTs D (for High PID), and then affix them by using 2 screws and 3 nuts on each.

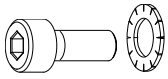

Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	4	
F	NUT M3 DIN 985 WIDE WASHER 3 DIN 902	12	



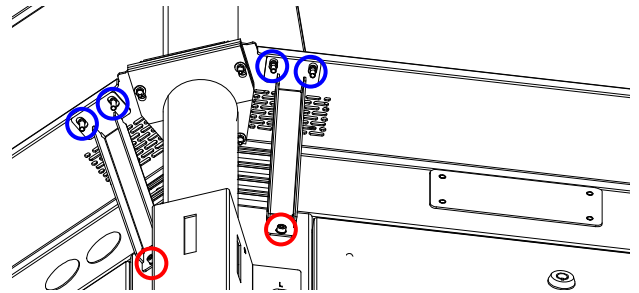
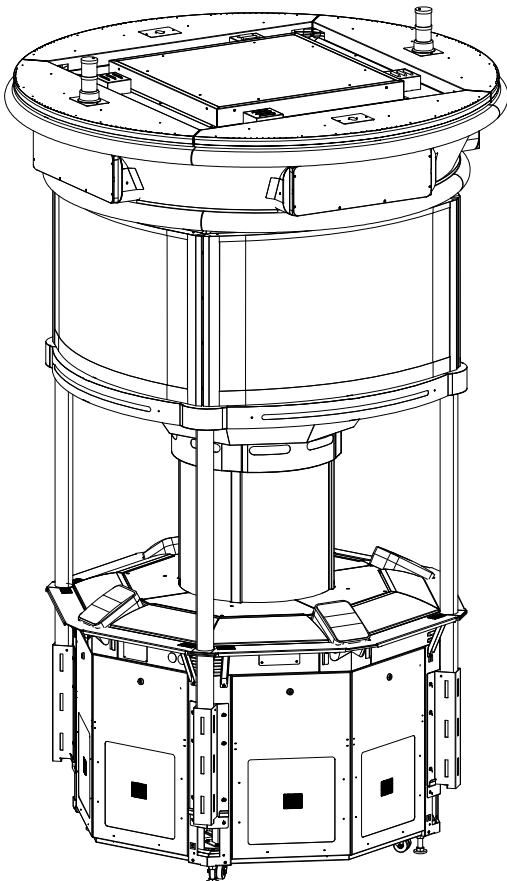
6. Prepare the following Parts.

Parts Name	Qty	Appearance
Frame Joint BRKT A	8	

7. Affix the Frame Joint BRKT A to the Center Unit and to the Joint BRKT B Unit by using 1 screw and 2 nuts on each.

	Fasteners	Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	8	
E	NUT M4 SPRING WASHER A4 DIN 127 WASHER A4 DIN 125	16	

At this point the machine should look like this.

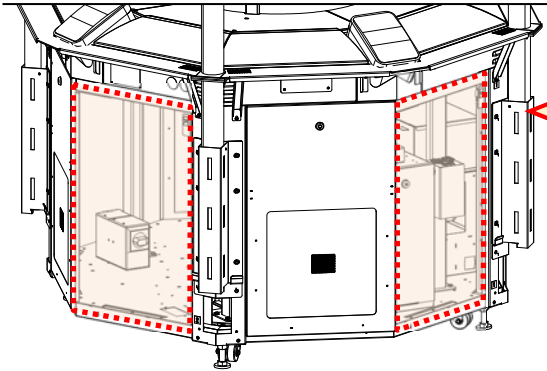


3. 2. 1. 7: Connecting the PID Unit to the Center Unit

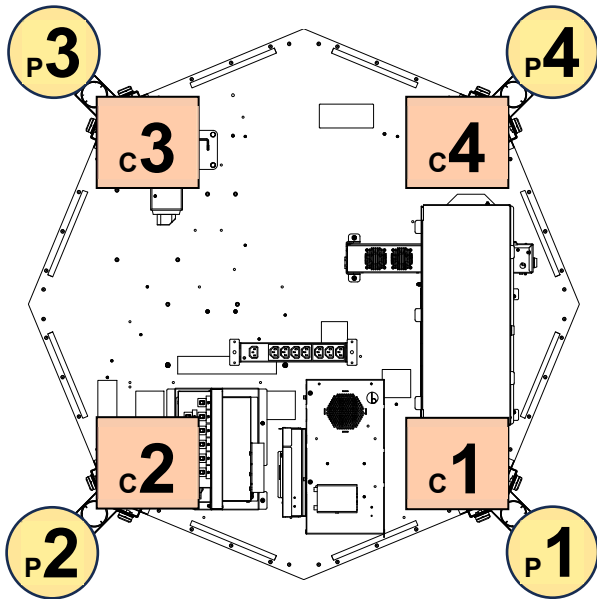
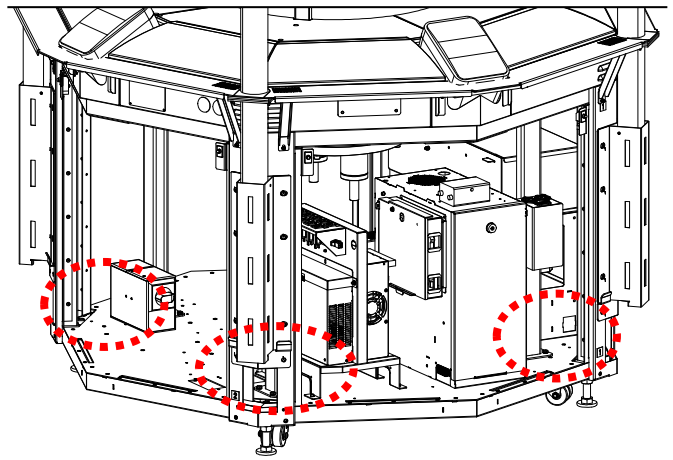
1. Unlock and remove the Center Unit Doors. Untie the cables tied near each Corner of the Cabinet.

i NOTE:

Remove first the door on the right side, and then the one on the left side.

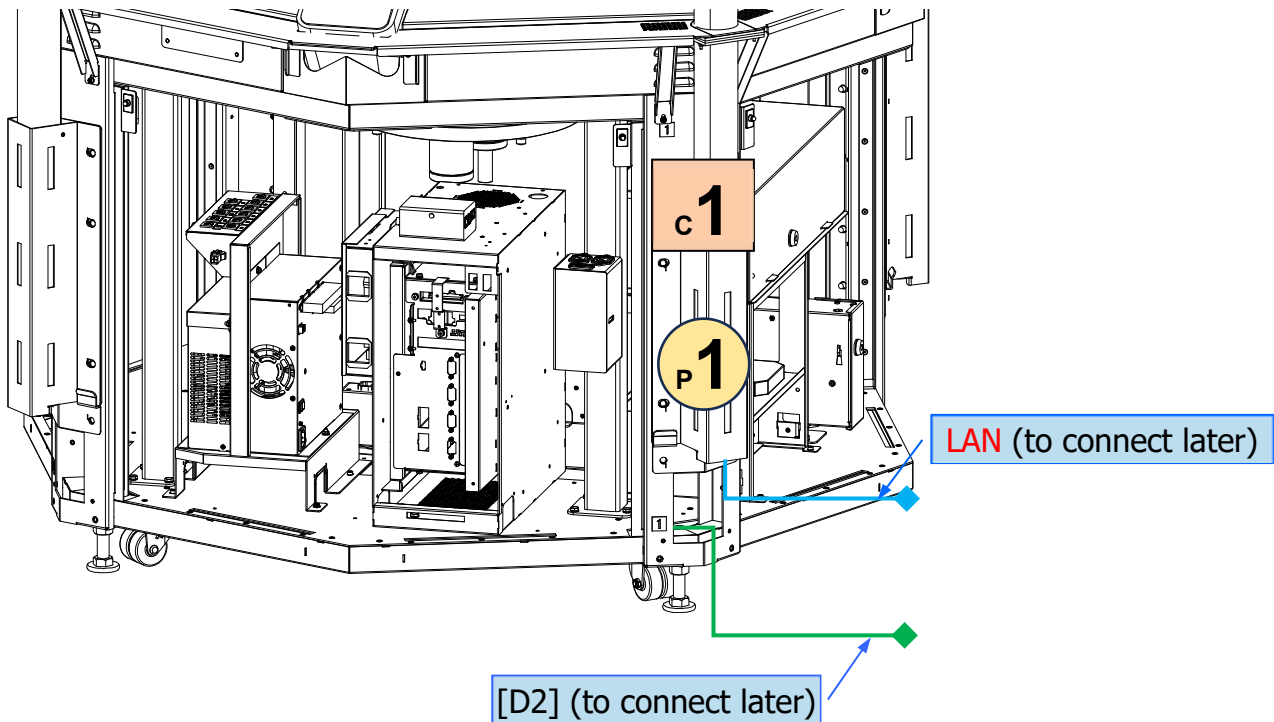


The Right Side Door is first.



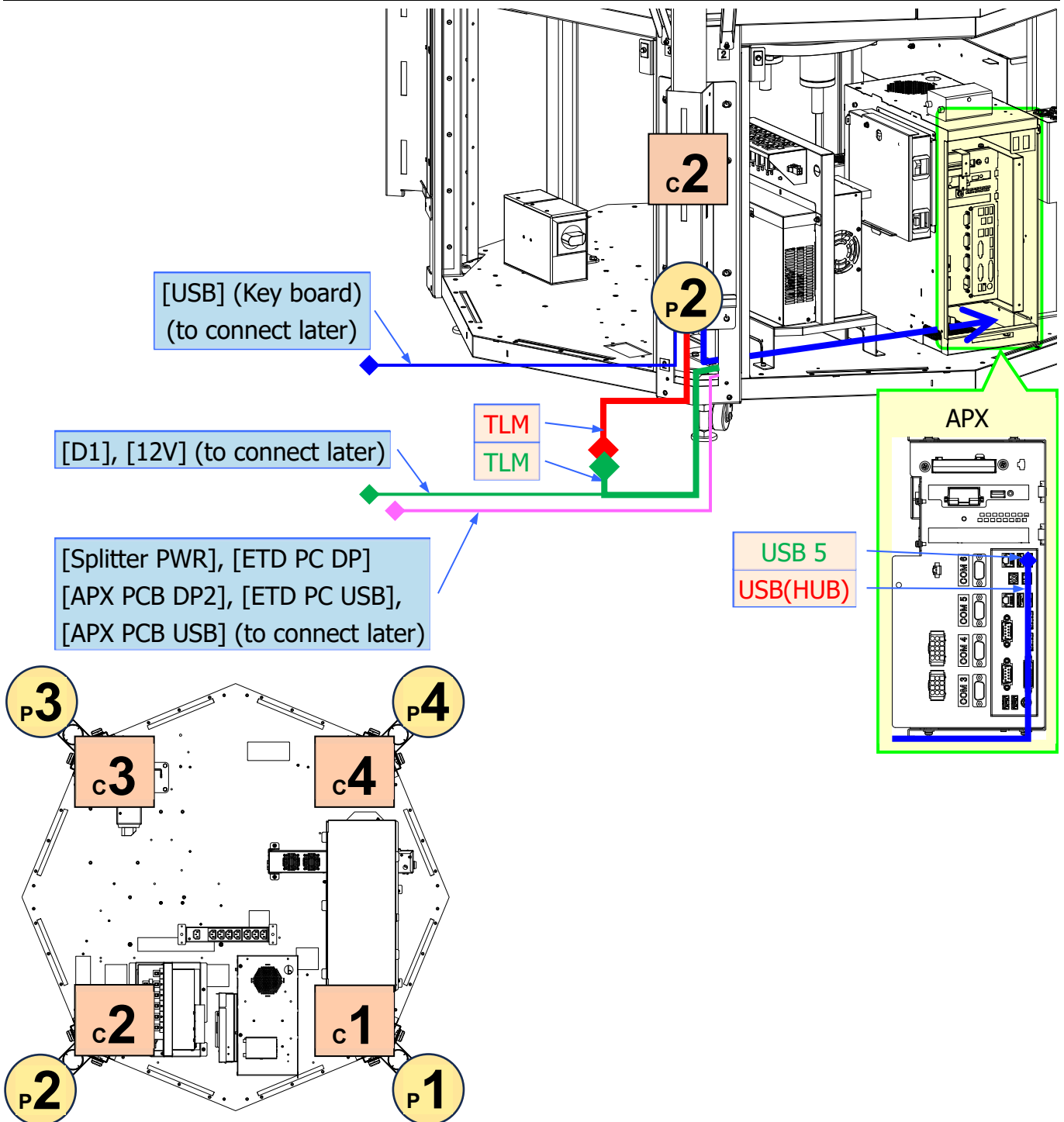
2. Pull the LAN Cable from Pole 1, and the [D2] Connector from the Corner 1, out of the Center Unit, in order to connect them later.

Corner No.	Connectors from Poles	Connectors of Center Unit
1	[LAN]	[D2]
2		
3		
4		



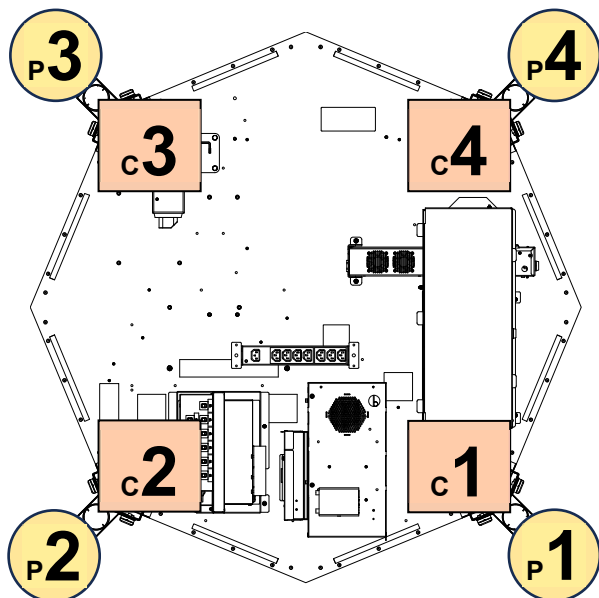
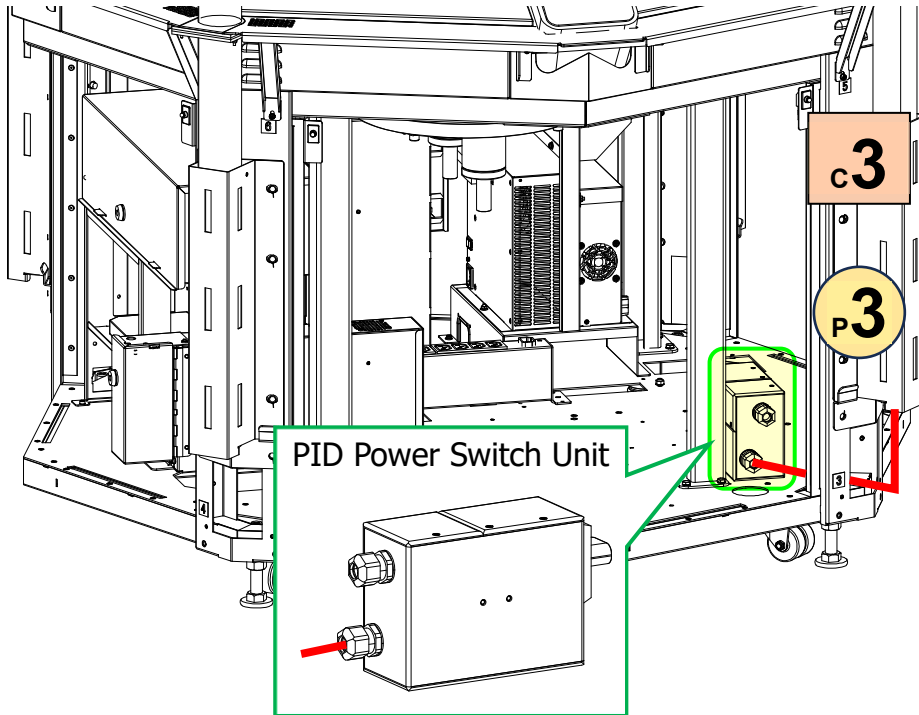
- Connect the [TLM] Connector from Pole 2, to the [TLM] Connector of the Center Unit. Pass the [USB (HUB)] Cable through the hole on the side of the APX Unit, and connect it to the [USB 5] Port of the APX. Pull the [USB (keyboard)] cable and all the other connectors outside from the Center Unit, because they will be plugged later.

Corner No.	Connectors from Poles	Connectors of Center Unit
1		
2	[TLM], [USB (HUB), (Key board)]	[TLM], [USB 5]
3		
4		



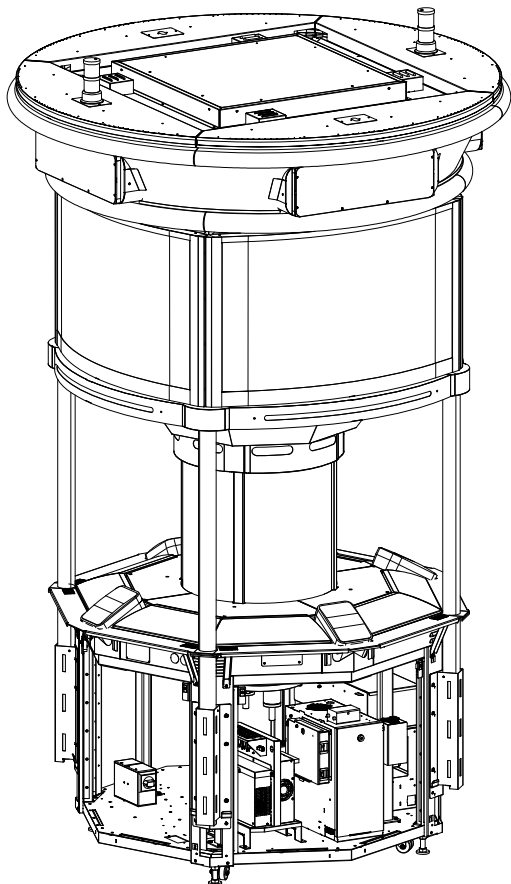
4. The AC Cable from the Pole 3, is connected to the PID Power Switch Unit.

Corner No.	Connectors from Poles	Connectors of Center Unit
1		
2		
3	AC Cable	Connected(PID Power Switch Unit)
4		



5. The connectors of the PID Unit are now connected to the Center Unit. Arrange the cables installed so that they will not be an obstacle to the further procedures.

At this point the machine should look like this.



3. 2. 1. 8: Hardware Setting for Center Unit

Hardware Settings are necessary for factory shipped products to be operational. Before commencing with operation, make sure to do the settings explained below.



WARNING!

Electrostatic discharge may damage internal components. When accessing the inside of the Cabinet, take anti-static measures (as wearing anti-static wrist band etc.) before proceeding.

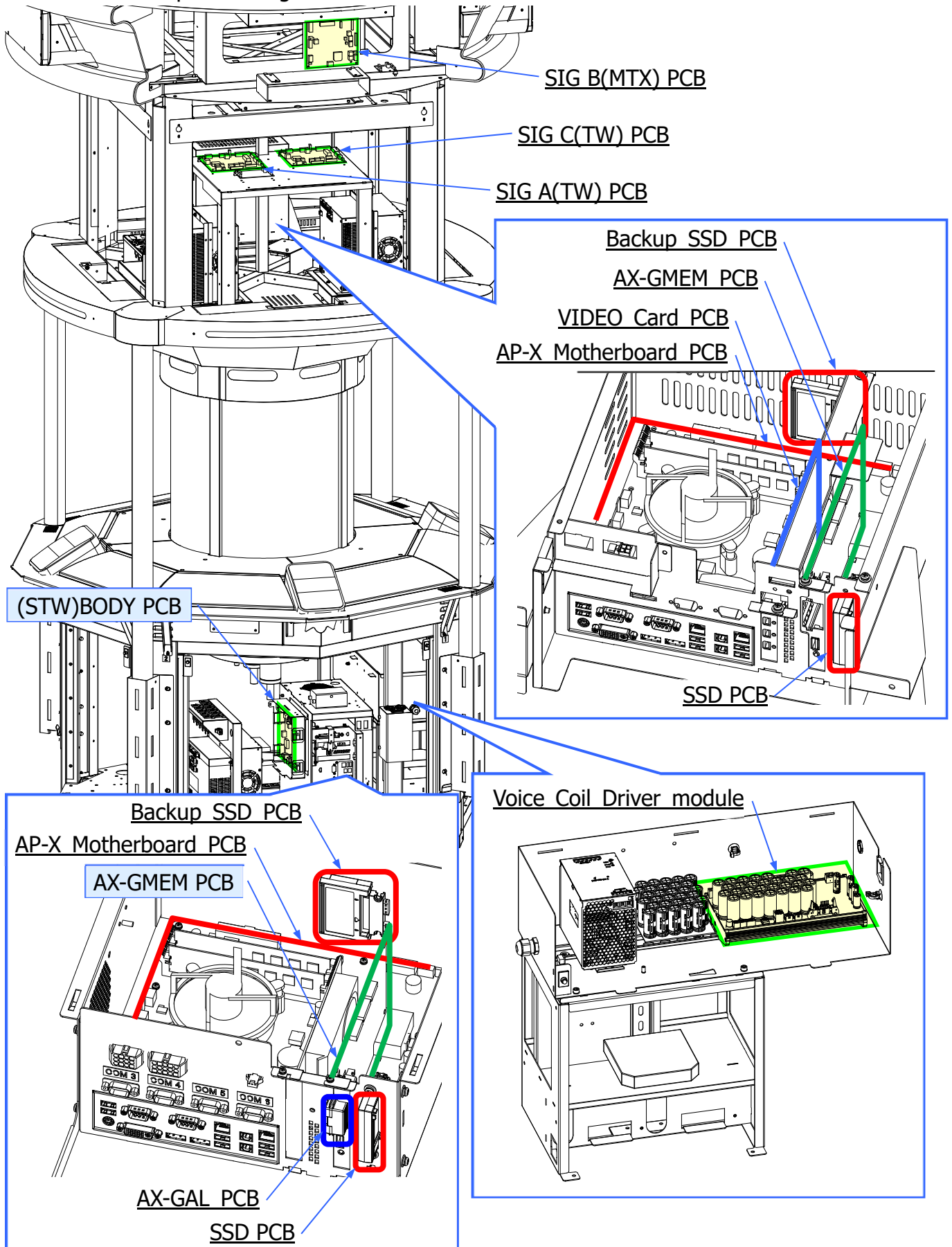


CAUTION!

Hardware Settings must be done by authorized personnel.

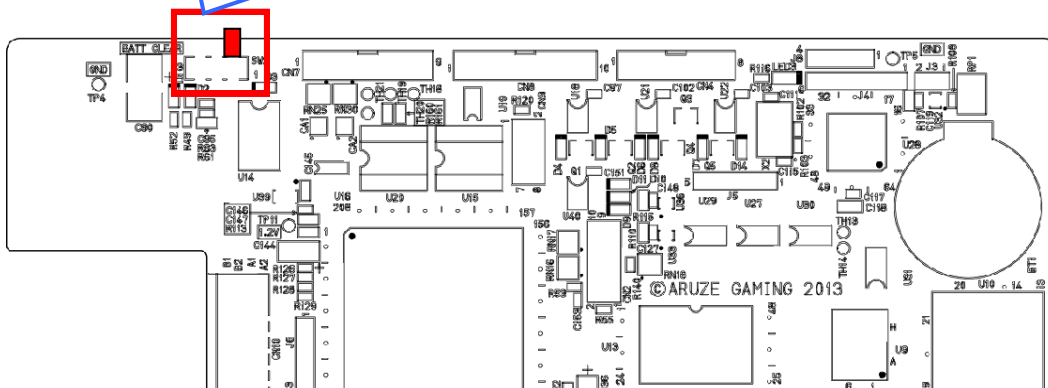
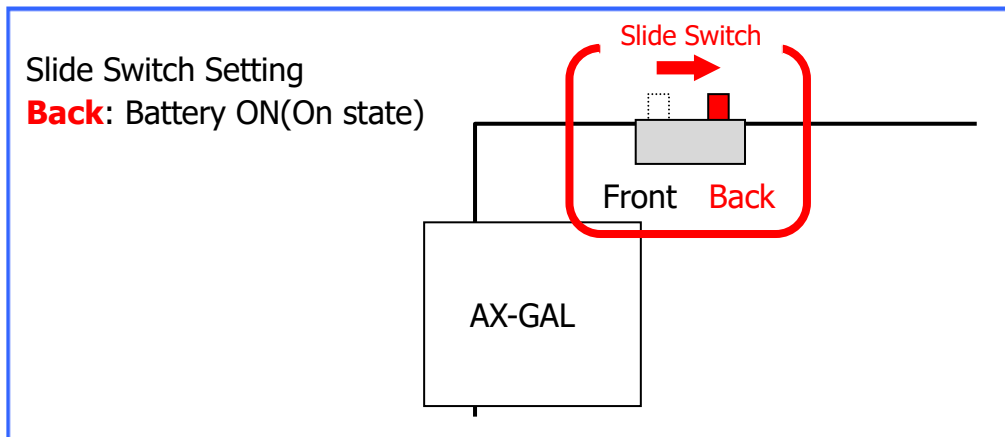
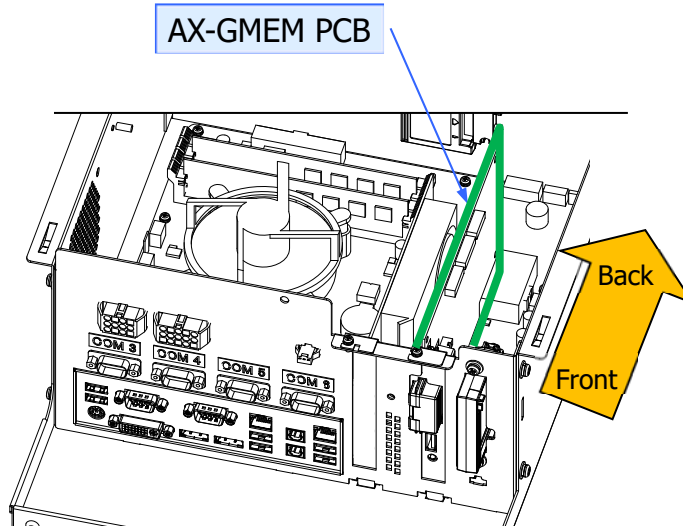
- Location of PCBs -

The PCBs that require setting are shown inside a box below.



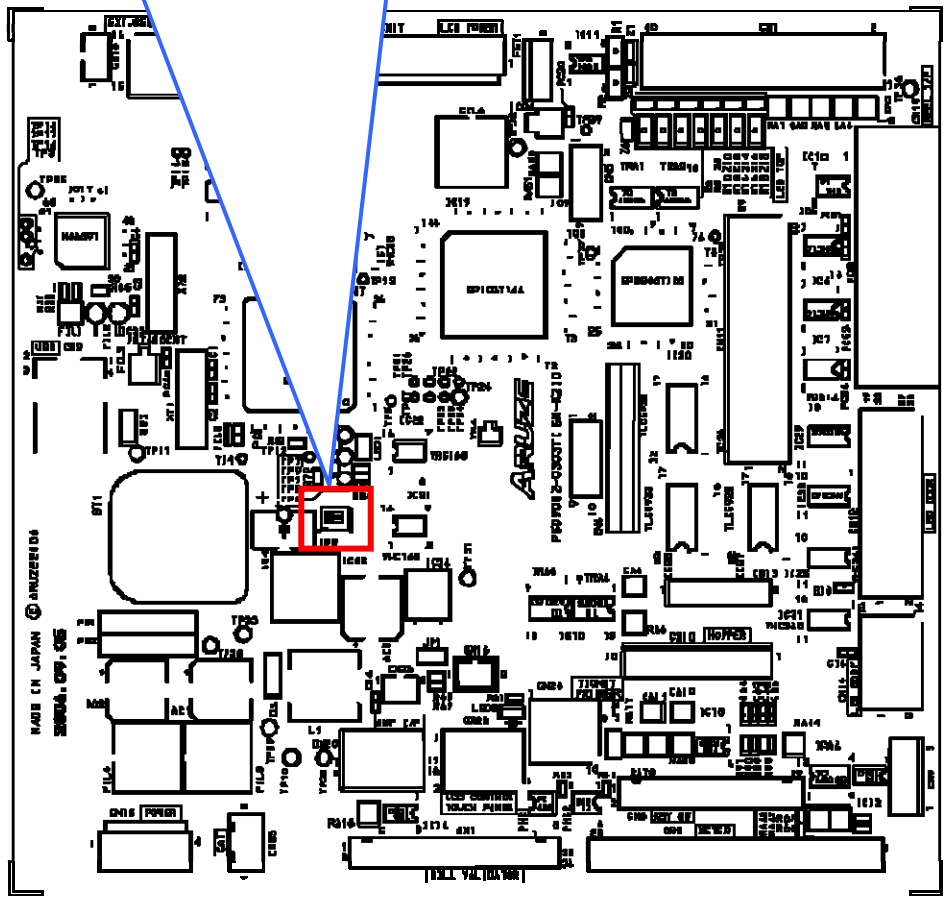
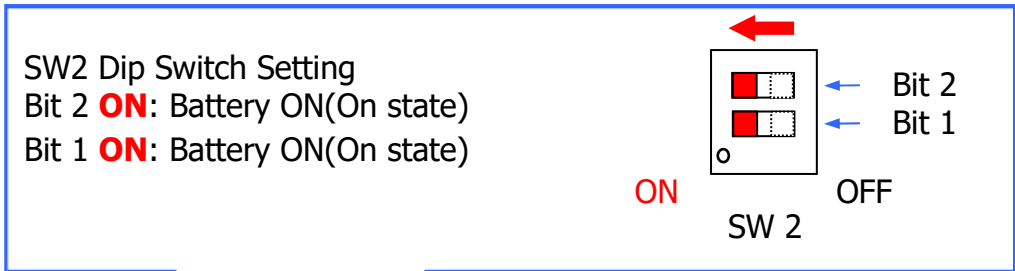
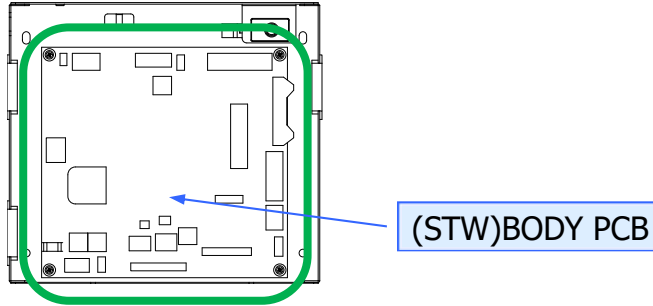
- AX-GMEM PCB -

PCB	Onboard Switch/Jumper	Factory Setting	Setting for Operation	Description
AX-GMEM PCB	S2 (Slide Switch)	Front (Battery OFF)	Back (Battery ON)	The switch for Backup Battery ON-OFF



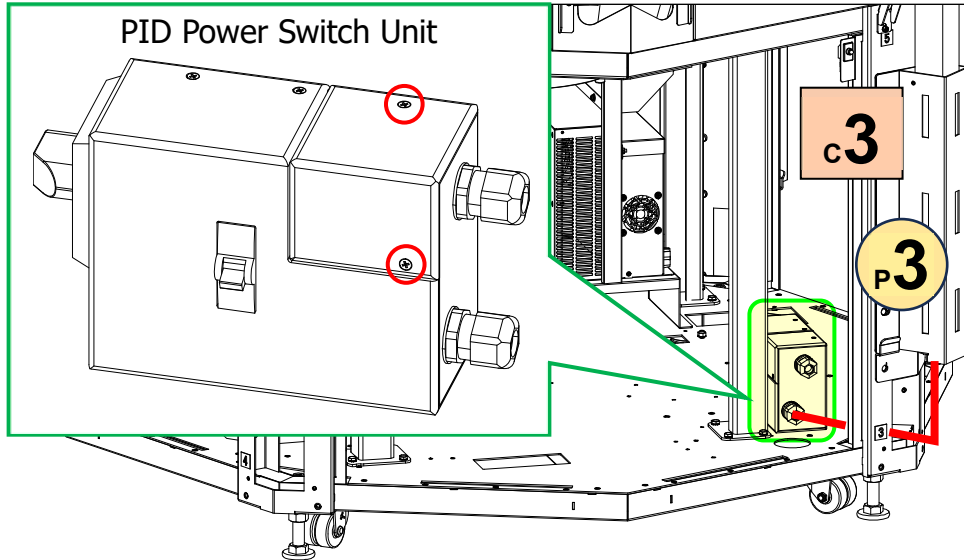
- (STW)BODY PCB -

PCB	Onboard Switch/Jumper	Factory Setting	Setting for Operation	Description
(STW)BODY PCB	SW2(2 Bit Dip Switch)	All OFF (Invalid)	All ON	The switch for enabling the Backup Battery

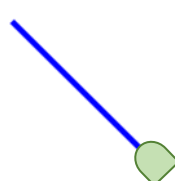


3. 2. 1. 9: Connecting the Center Unit to the Power Source [PID Power Switch Unit]

- A) Remove 2 screws from the PID Power Switch Unit, where the AC Cable from Pole 3 is plugged, to detach its cover.



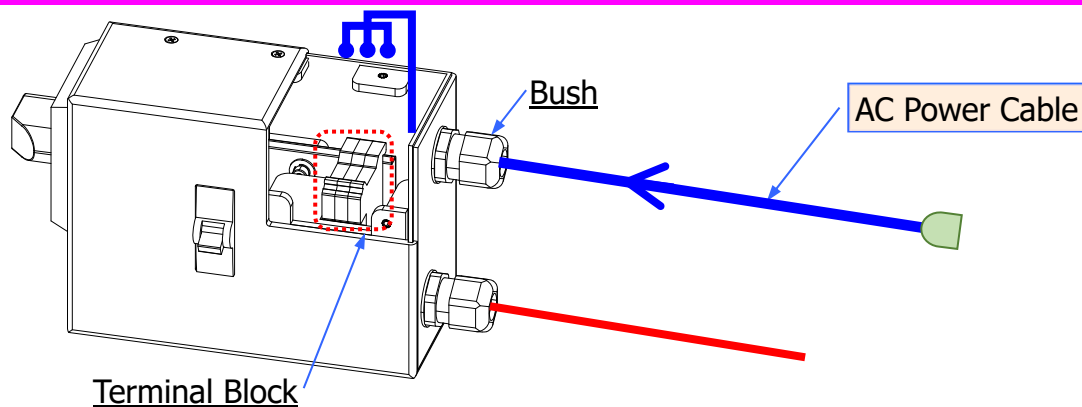
- B) Prepare the following Parts.

Parts Name	Qty	Appearance
AC Power Cable (3Core, 2.0Sq Cabtyre)	1	

- C) Insert AC Power Cable at the back of the PID Power Switch Unit, then turn the Bush to fix the AC Power Cable.

⚠ DANGER! Risk of Electric Shock.

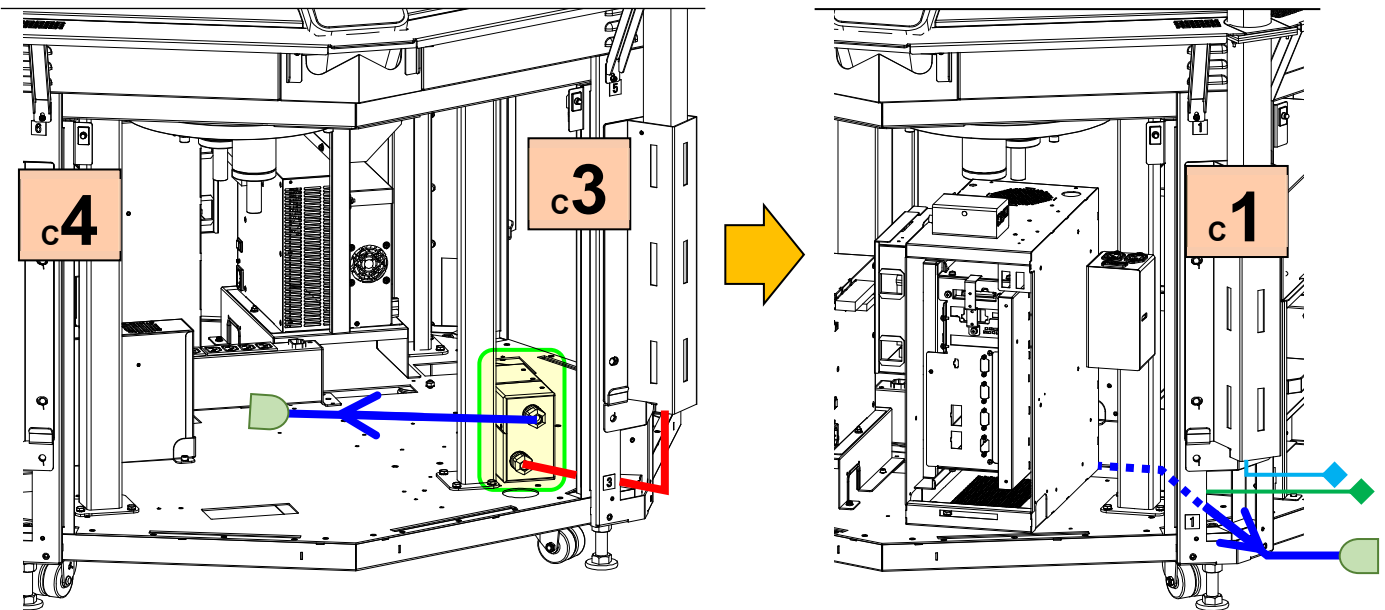
- The procedure for the connection to the Terminal Block can be performed only by electrical contractors or by qualified electricians.
- Before connecting power line, make sure to check that the power is OFF.



D) Connect the AC power cable to the terminal block, then return the Cover to its original position.

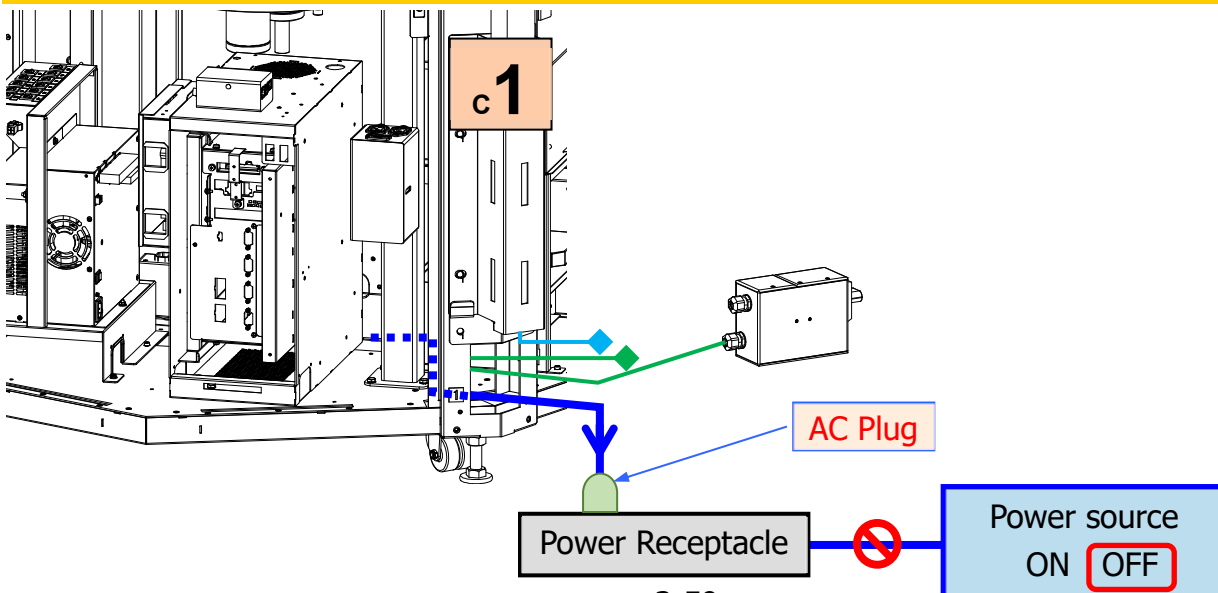
7Description of terminal notation	
L	: Live
PE	: Protective Earth
N	: Neutral

E) Pass the AC Plug that was connected through the hole of Corner 1 illustrated below, and pull it outside the Center Unit.



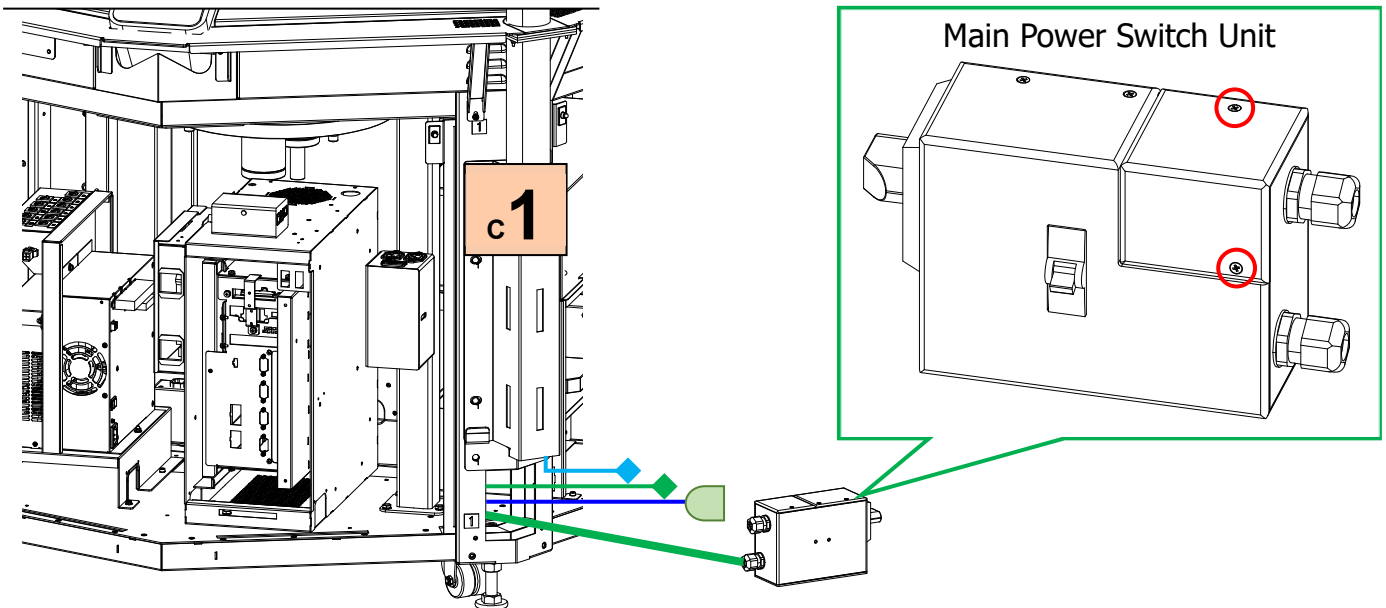
F) Connect the AC Plug of the [PID Power Switch Unit] to the Power receptacle previously prepared.

 **CAUTION!**
Do not electrify the Power Receptacle.

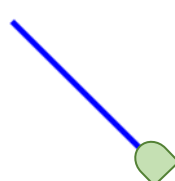


[Main Power Switch Unit]

- A) Remove 2 screws from the Main Power Switch Unit that is connected to the Center Unit by the AC Cable, to remove the Cover.



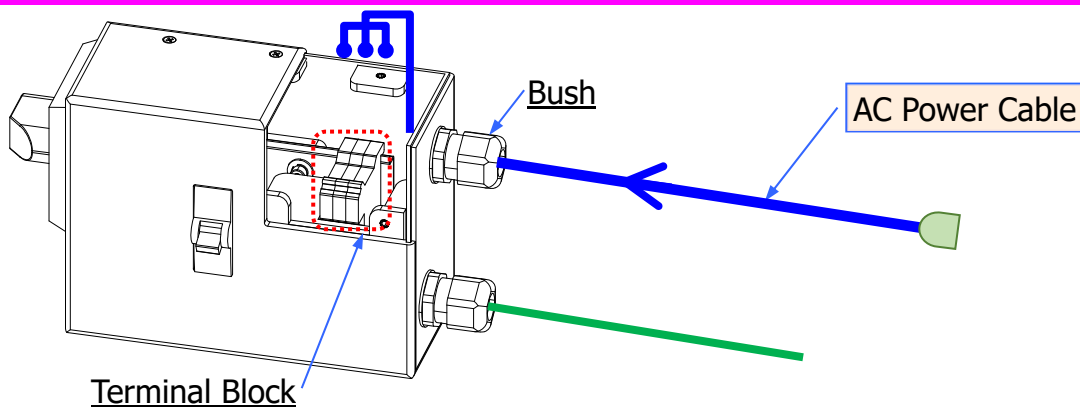
- B) Prepare the following Parts.

Parts Name	Qty	Appearance
AC Power Cable (3Core, 2.0Sq Cabtyre)	1	

- C) Insert AC Power Cable at the back of the Main Power Switch Unit, then turn the Bush to fix the AC Power Cable.

⚠ DANGER! Risk of Electric Shock.

- The procedure for the connection to the Terminal Block can be performed only by electrical contractors or by qualified electricians.
- Before connecting power line, make sure to check that the power is OFF.



- D) Connect the AC power cable to the terminal block, then return the Cover to its original position.

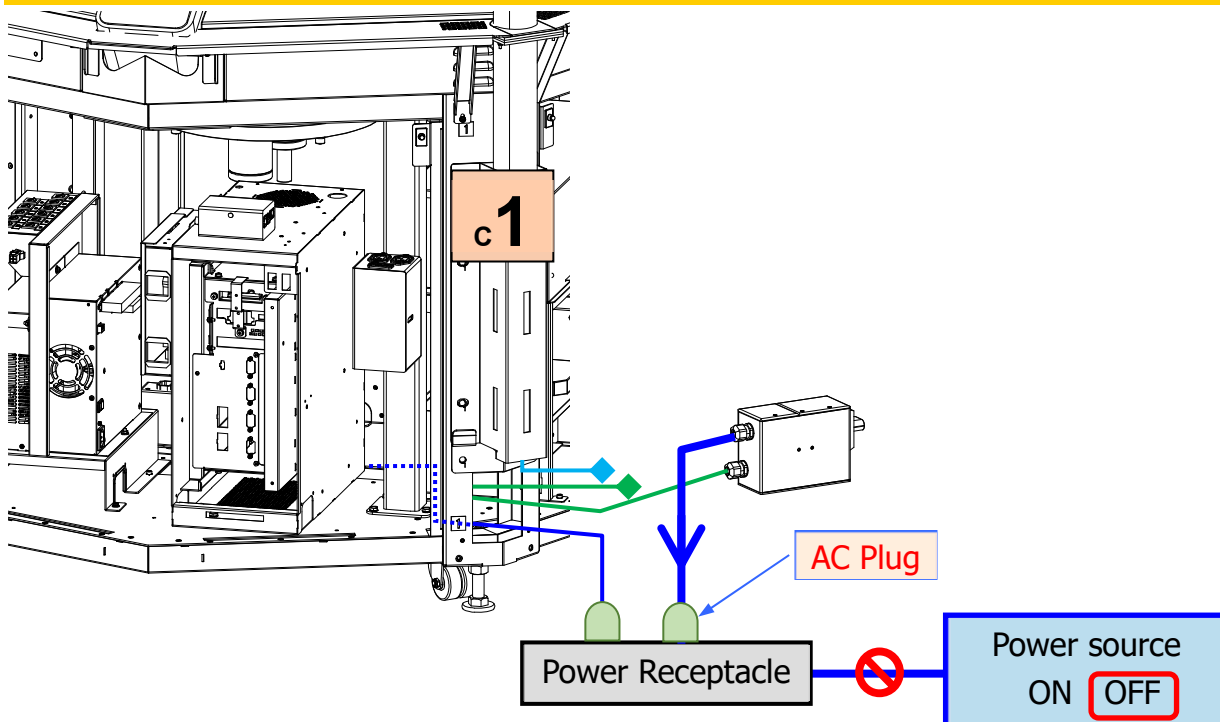
7Description of terminal notation
L : Live
PE : Protective Earth
N : Neutral

- E) Connect the AC Plug of the [Main Power Switch Unit] to the Power receptacle previously prepared.



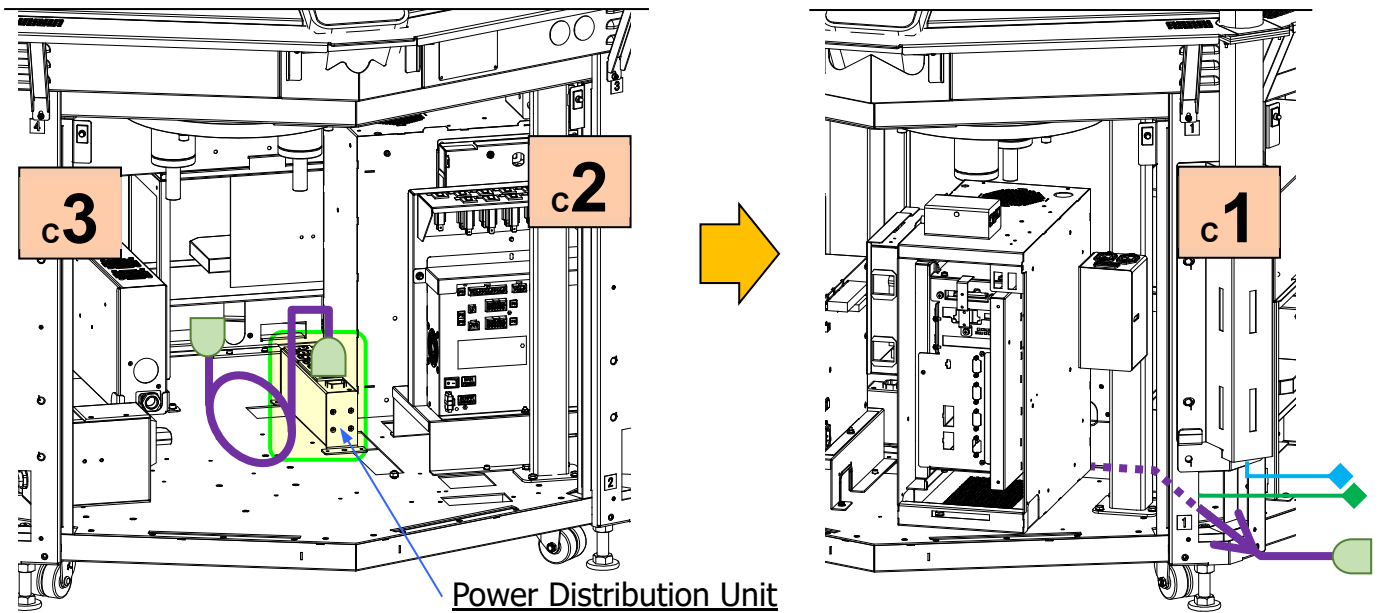
CAUTION!

Do not electrify the Power Receptacle.

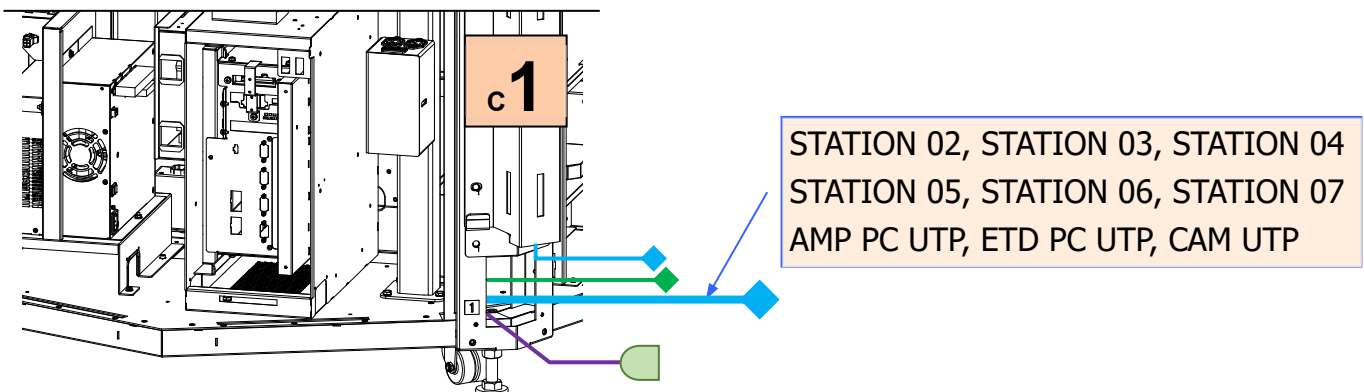


3. 2. 1. 10: Preparation to install the Stations

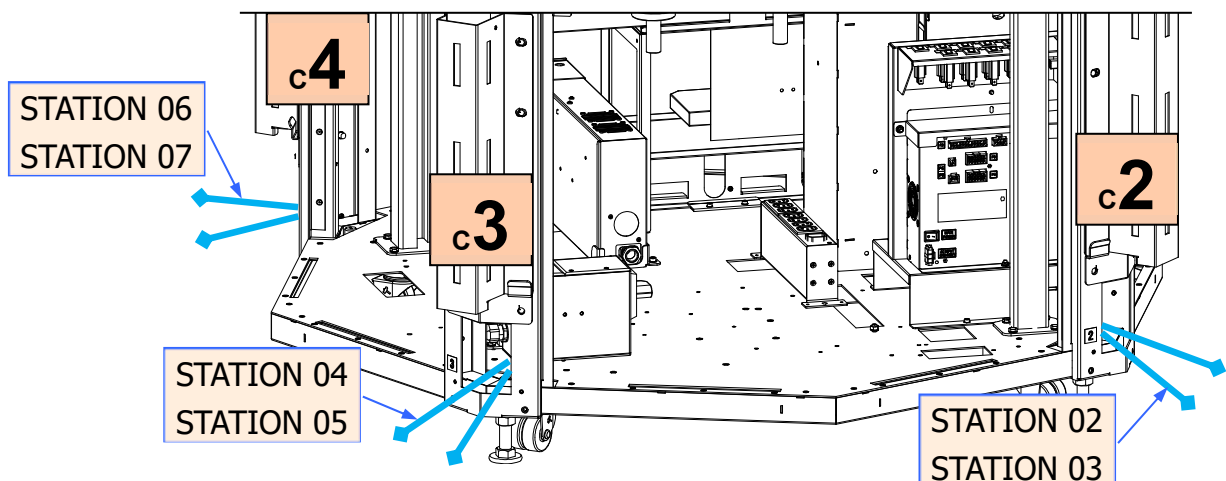
1. Pull the AC power cable (for HUB unit), that is located near the Power Distribution Unit, outside the Centre Unit through the hole at the side of Corner 1 illustrated below.



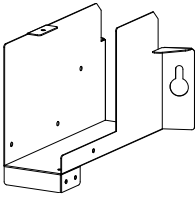
2. Pull the 9 LAN Cables located at Corner 1, outside the Centre Unit through the hole illustrated below.



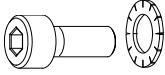
3. Pull the 2 LAN Cables located at each Corner 2, Corner 3, Corner 4, outside the Centre Unit through the holes illustrated below.

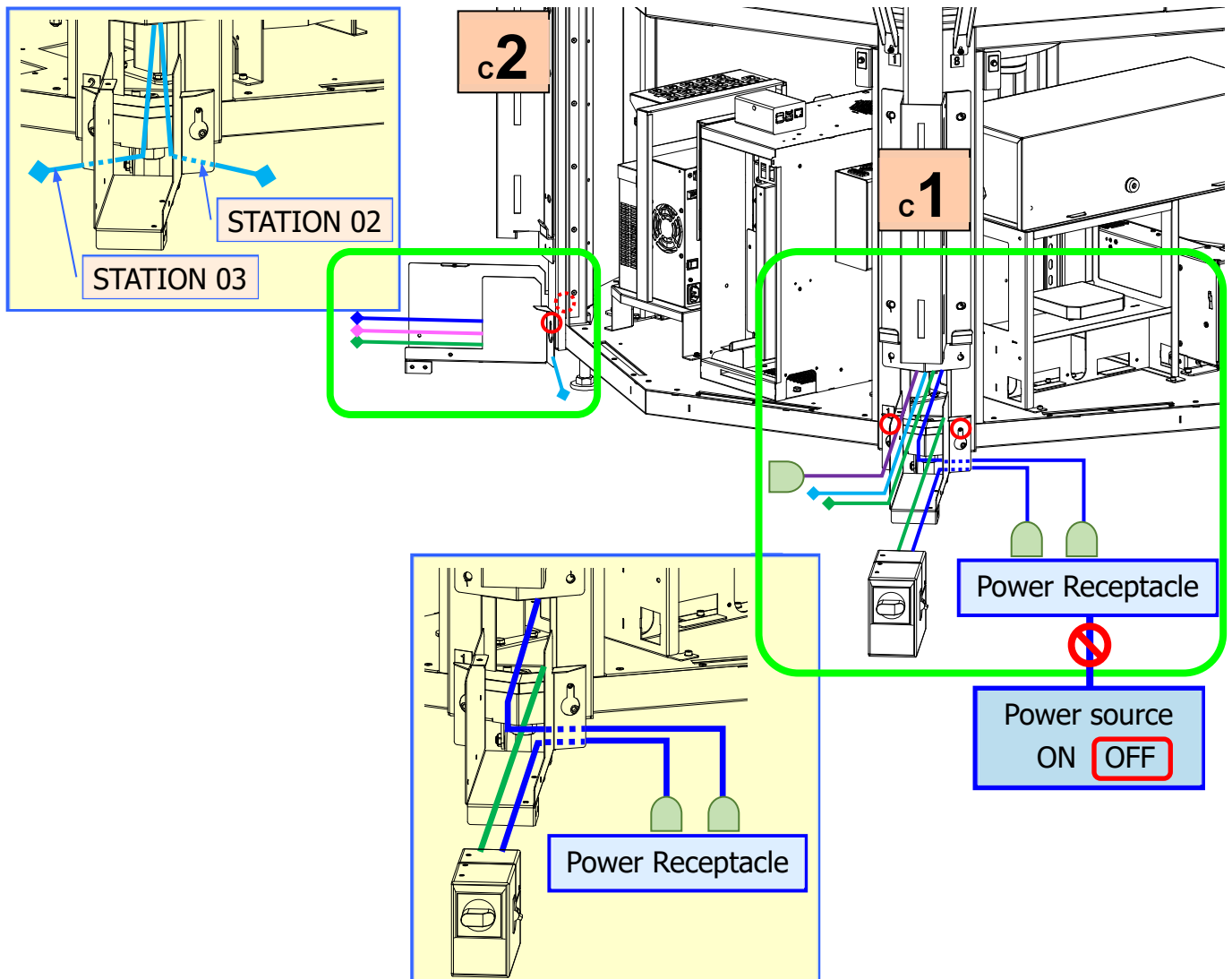


4. Prepare the following Parts.

Parts Name	Qty	Appearance
Harness BRKT	2	

5. Affix the Harness BRKT to the feet of Corner 1 and of Corner 2 by using 2 screws on each. Pass the AC Cable of the side of the Corner 1 and the LAN Cable of the side of the Corner 2, behind the Harness BRKT.

Fasteners	Qty	Appearance
B HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	4	

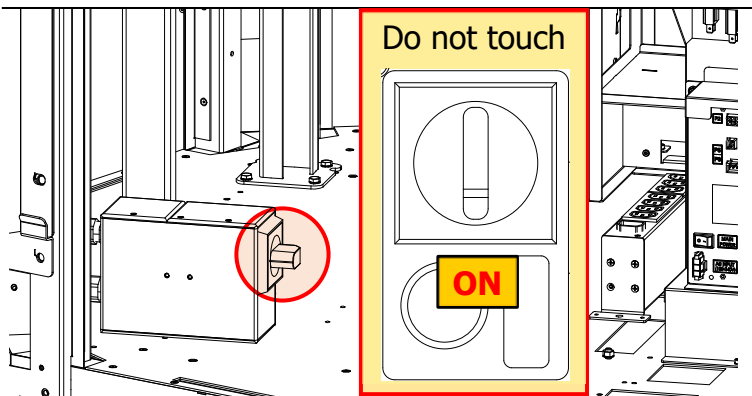


- This completes the connection to the Power Source of Center Unit. Close the Security Cage Door, and return the Center Unit Doors to their original location, in order to connect the Stations. Arrange the cables installed so that they will not be an obstacle to the further procedures.

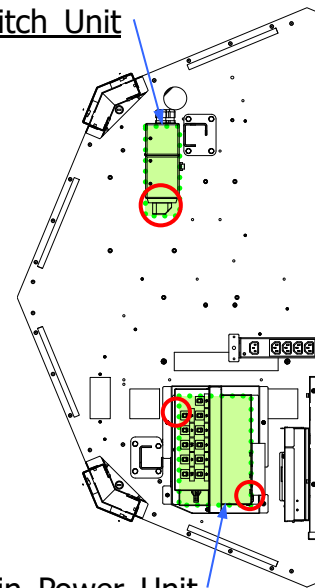
⚠ CAUTION!

Make sure that the switch of the PID Power Switch unit and the 2 switches of the Main Power Unit, which are placed inside the Center Unit, are switched to ON.

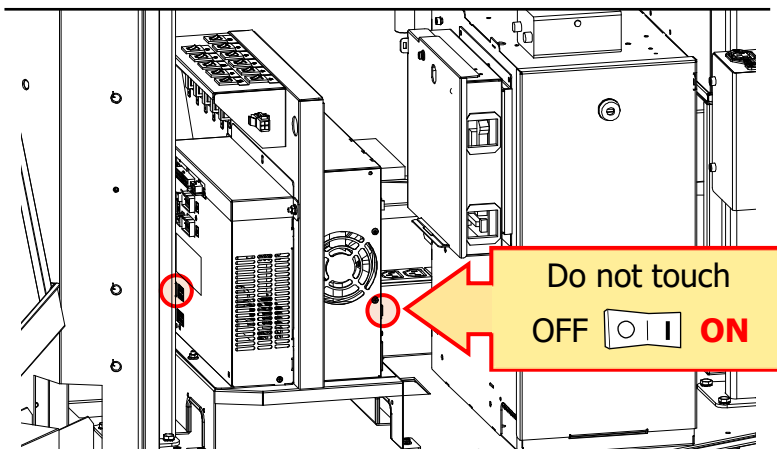
Please leave this switch on ON and do not change its status.



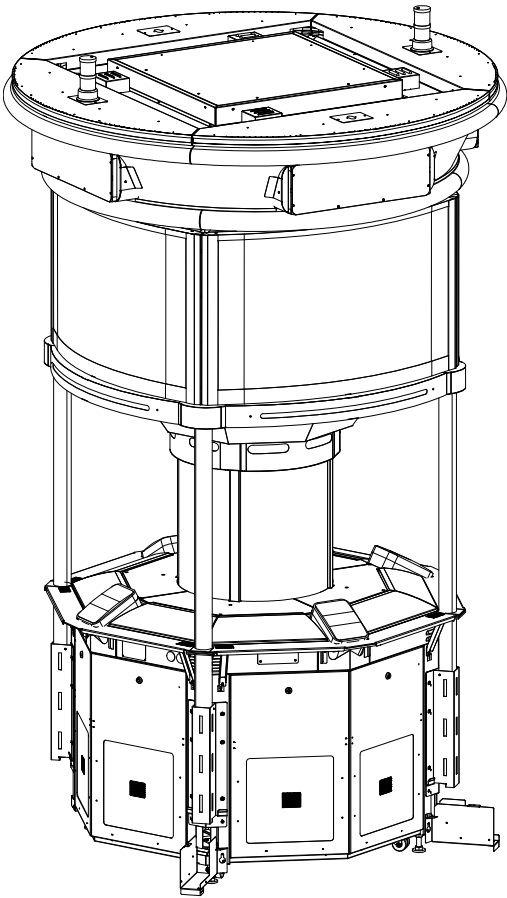
PID Power Switch Unit



Main Power Unit

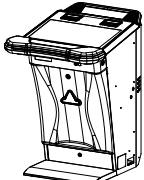
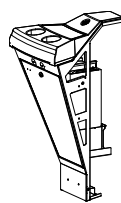
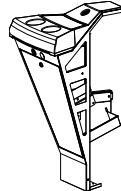


At this point the machine should look like this.

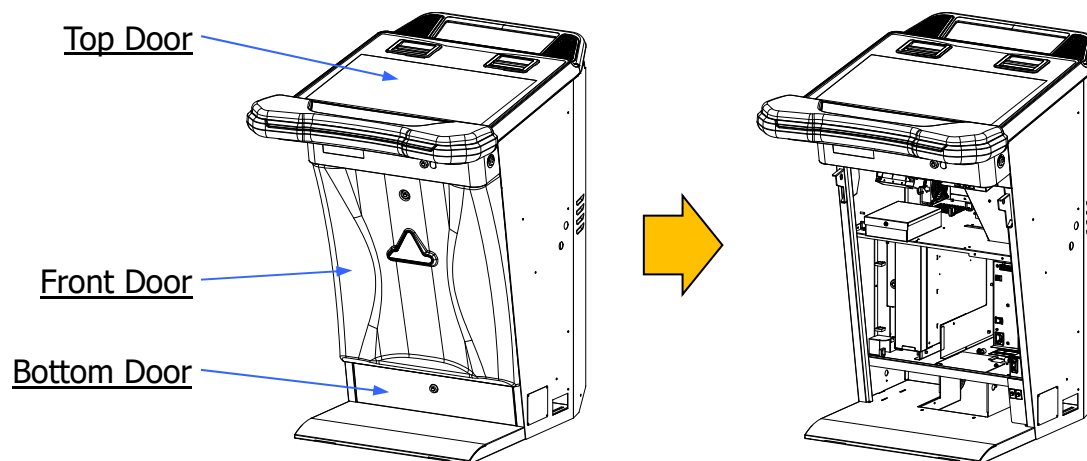


3. 2. 1. 11: Attaching the Pow Switch and HUB Spacer Unit and the Control Spacer Unit

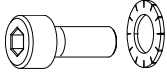
1. Prepare the following Parts.

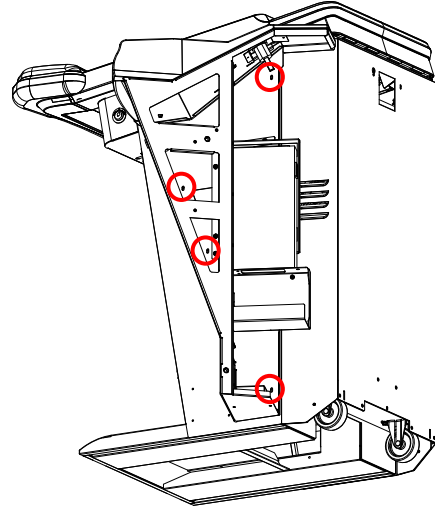
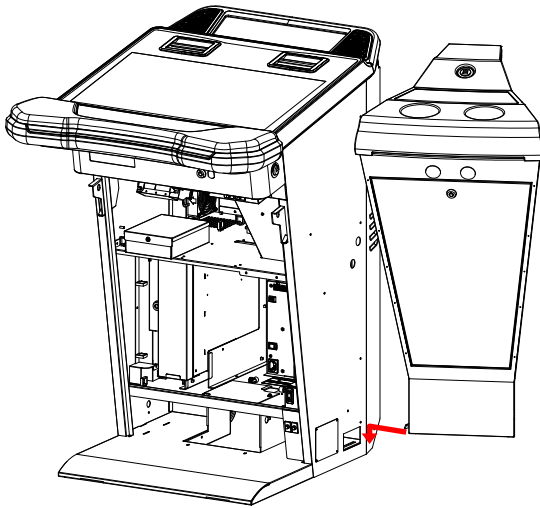
Parts Name	Qty	Appearance
Stations (STATION No.01 and No.03)	2	
Pow Switch and HUB Spacer Unit [RIGHT FILLER OF STATION No.01] (for Power Switch and HUB)	1	
Control Spacer Unit [RIGHT FILLER OF STATION No.03] (for AUDIT setting)	1	

2. Unlock and remove the Front Door and Bottom Door of each station.

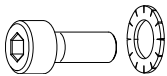


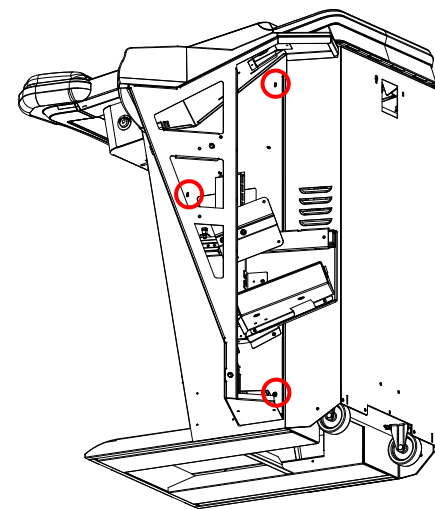
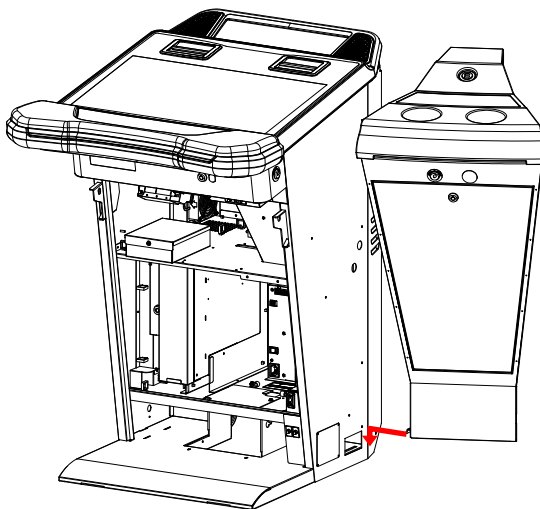
3. Affix the [RIGHT FILLER OF STATION No.01] to the right side of the [STATION No.01] by using 4 screws. This Station will become [Station 1 Unit].

Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	4	

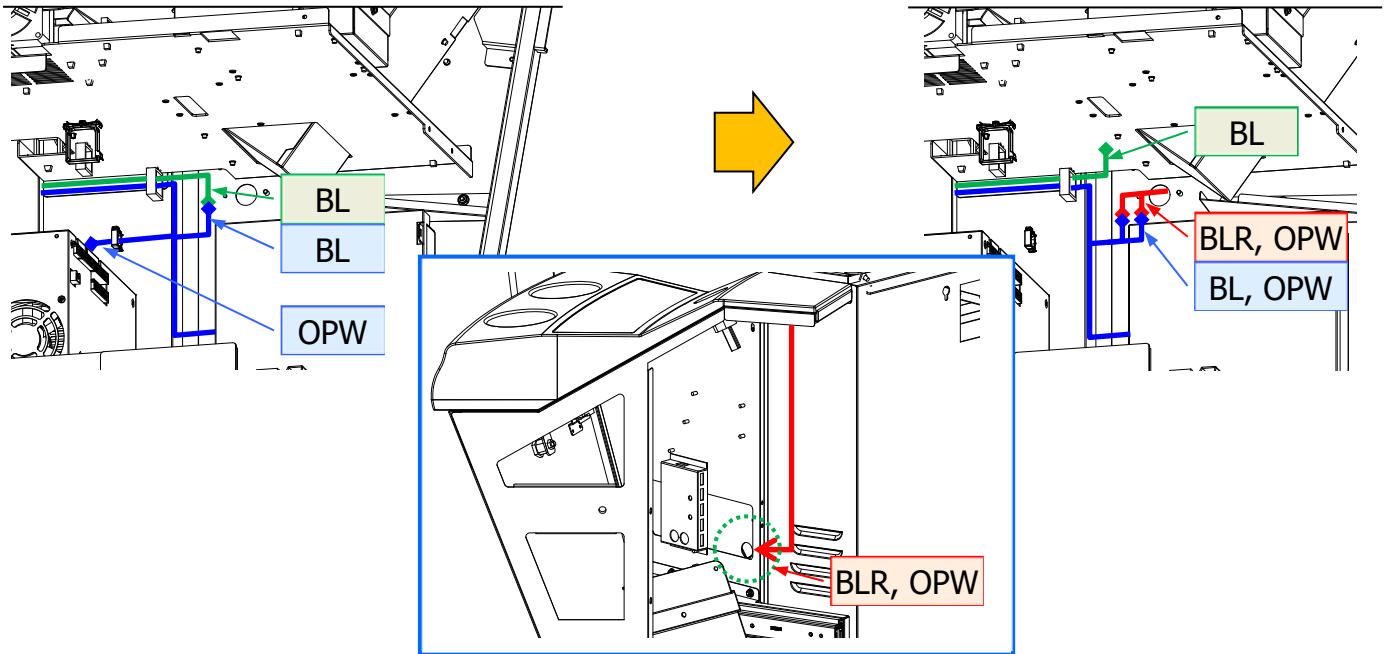


4. Affix the [RIGHT FILLER OF STATION No.03] to the right side of the [STATION No.03] by using 3 screws. This Station will become [Station 3 Unit].

Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	3	

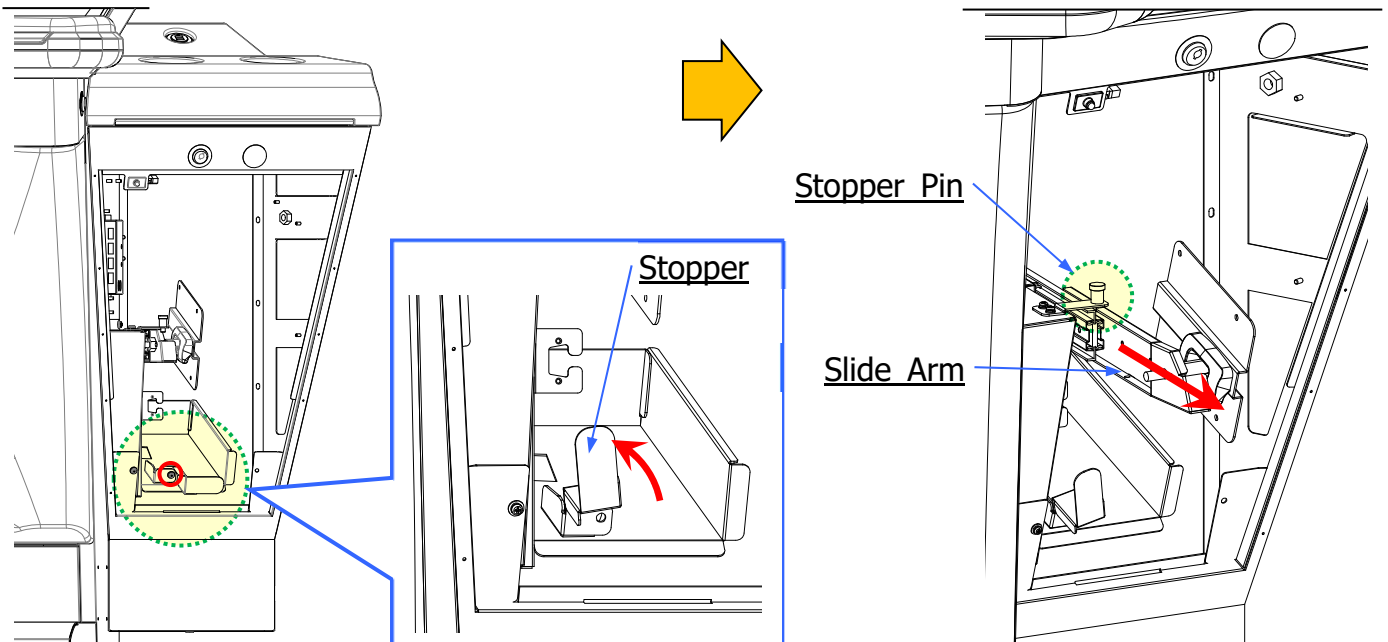


5. Unplug the [BL] connector connected to the inside of the station. Push inside the Station the [BLR] and [OPW] connectors located inside each Spacer Unit, through the opening on the lateral side, and connect them to the [BL] and [OPW] connectors of the Station.

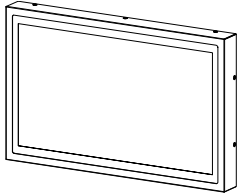


- Control Spacer Unit only -


- A) Unlock and remove the Control Spacer Door. Remove one screw to rise the Stopper, then draw the LCD Control Pad until the Stopper Pin locks, and secure the Slide Arm.



B) Prepare the following Parts.

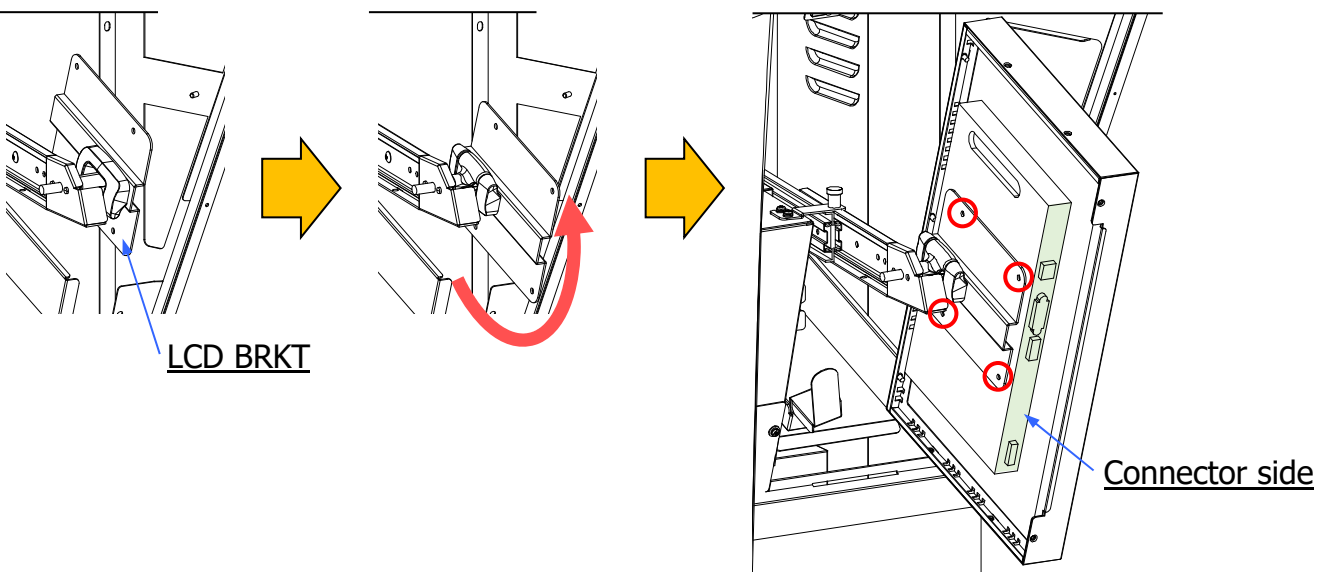
Parts Name	Qty	Appearance
LCD Control Pad (for Control Spacer Unit)	1	

C) Align the LCD Control Pad and the LCD BRKT of the Slide Arm as illustrated below, then affix it by using 4 screws.

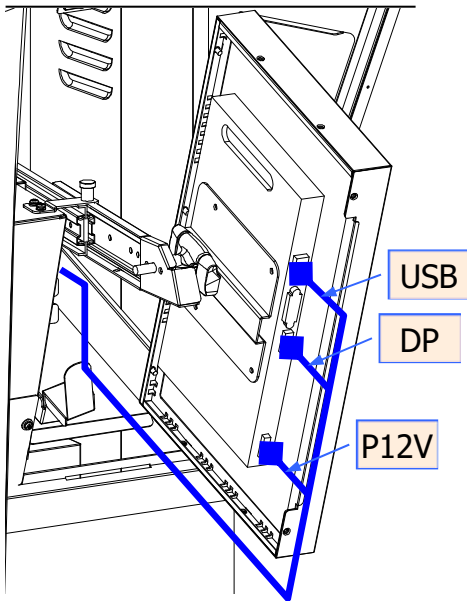
	Fasteners	Qty	Appearance
A	HEXAGON SOCKET BUTTON with FLANGE M4x8	4	

i NOTE:

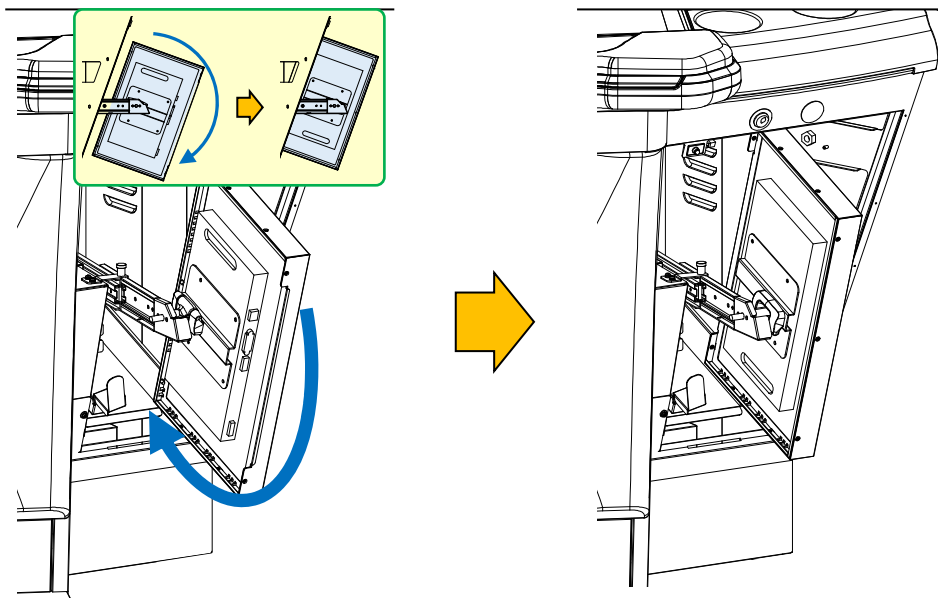
Before installing the LCD Control Pad, turn the LCD BRKT as illustrated.



- D) Plug the [P12V], [DP] and [USB] Connector mounted on the Slide Arm, to the Connecters of the LCD Control Pad.



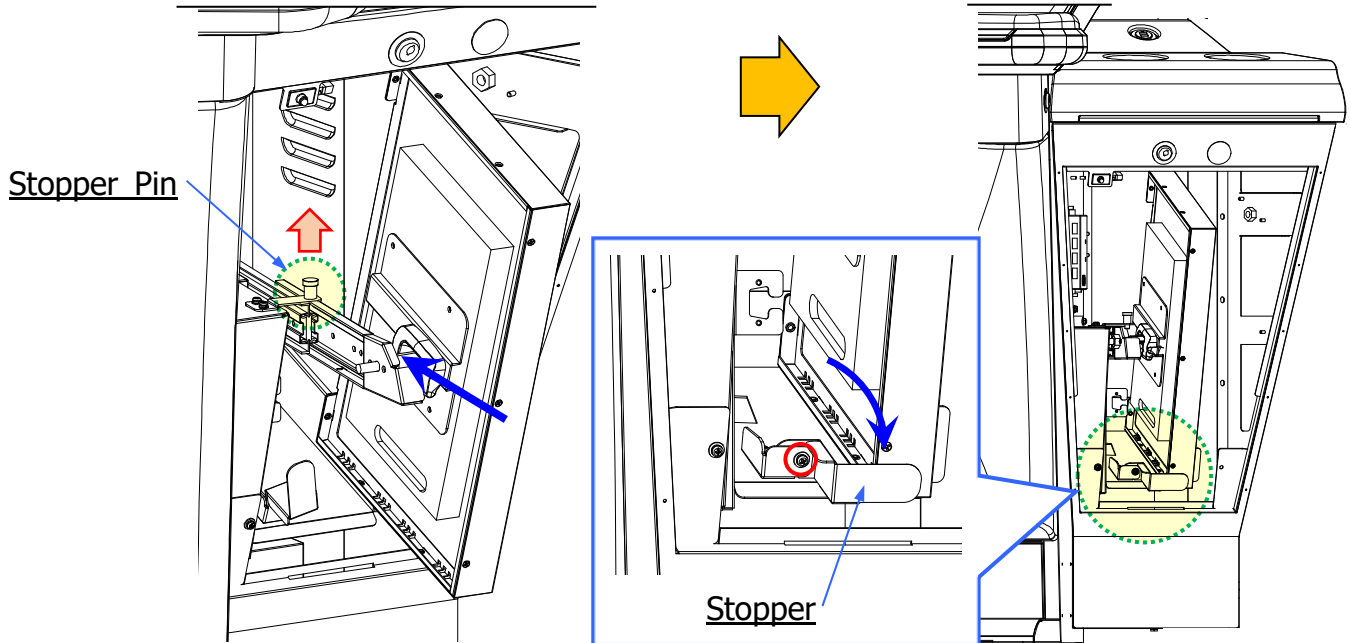
- E) Rotate the LCD Control Pad following the arrows as shown by the illustration below, to the position for storing, while paying attention to the connected cables.



F) Push in the LCD Control Pad keeping the Stopper Pin pulled up, then lower the Stopper.

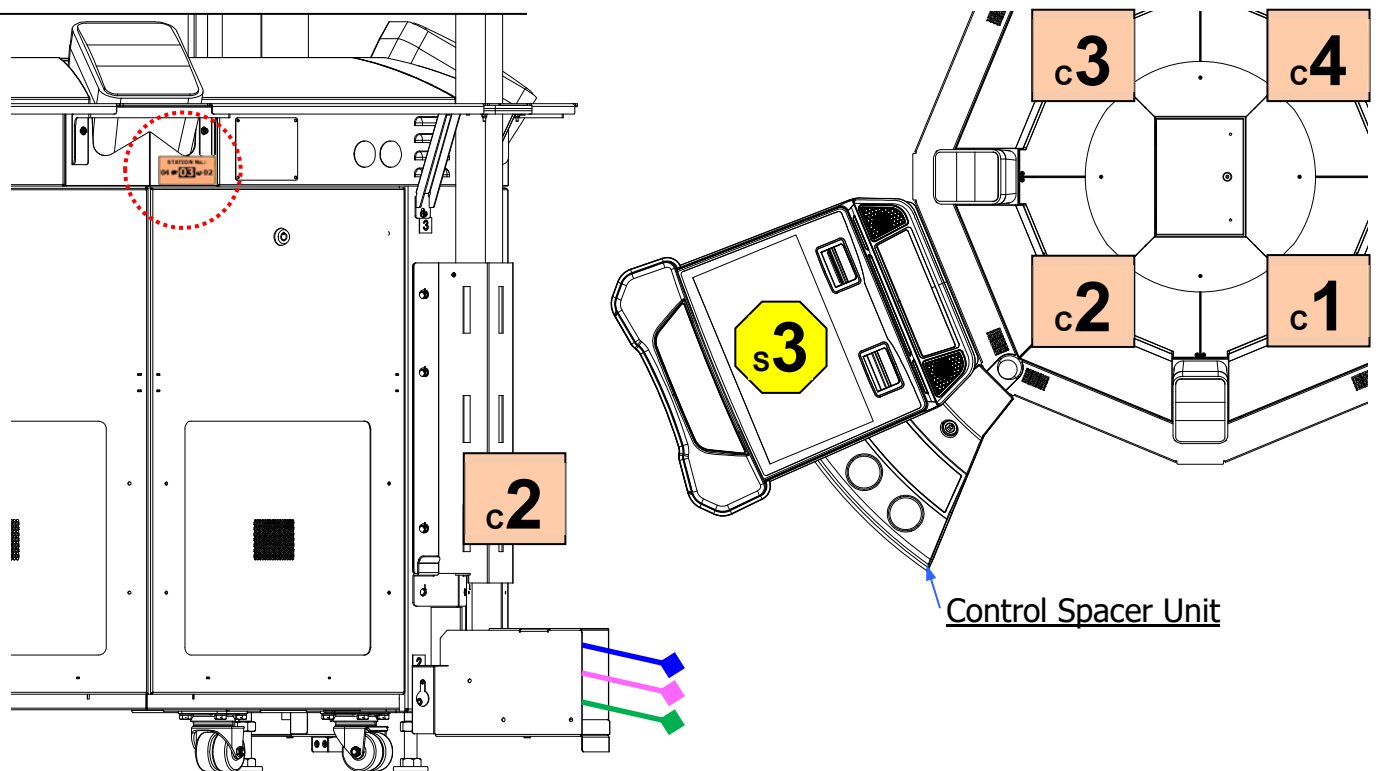
CAUTION!

Pay attention not to pinch the cables.

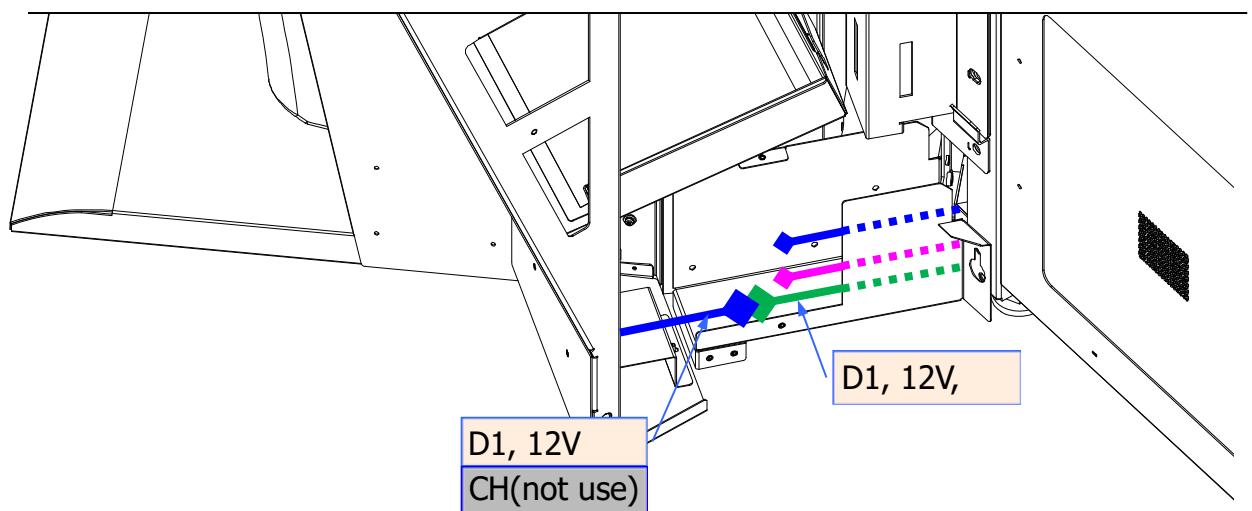


3. 2. 1. 12: Installing the Control Spacer Unit to Center Unit

1. Move the [Station 3 Unit] closer to side labelled by the sticker [STATION No.03].



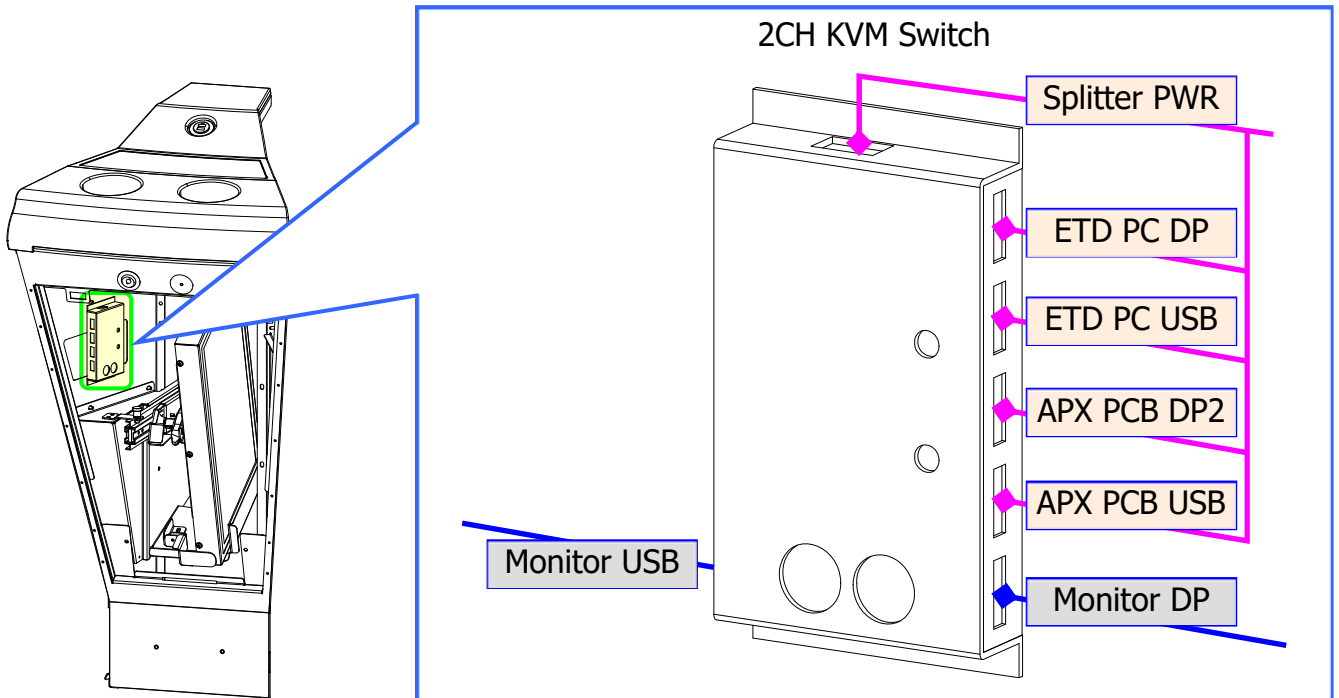
2. Connect the [D1], [12V] Connectors from the Center Unit (**Refer to STEP 3 of 3.2.1.7**) to the [D1], [12V] Connector of the [Control Spacer Unit].



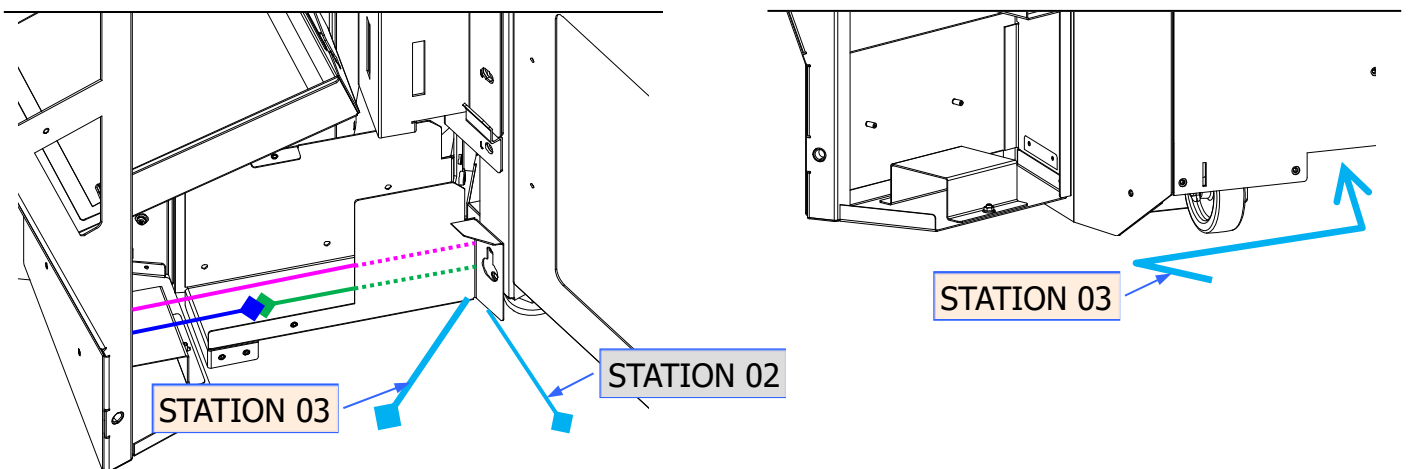
NOTE:

Connect the [USB] (Keyboard) Connector from Pole 2 (**Refer to STEP 3 of 3.2.1.7**) to the USB Keyboard (Option) only when using it.

3. Connect the [DP] and the [USB] Connecters from the Center Unit (**Refer to STEP 3 of 3.2.1.7**) to the 2CH KVM Switch of the [Control Spacer Unit].

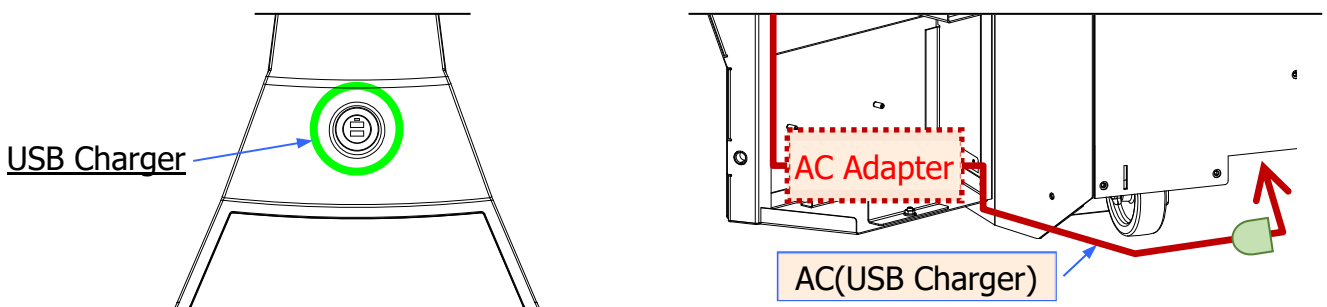


4. Insert the [STATION 03] LAN Cable (**Refer to STEP 3 of 3.2.1.10**), at the bottom of the rear side of the [STATION No.03].

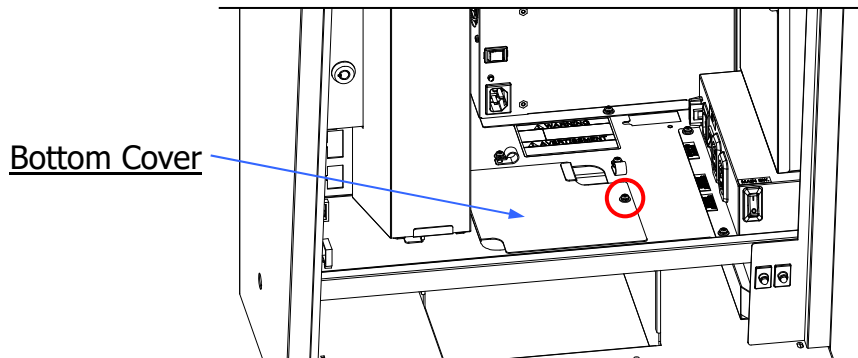


i NOTE: Option-[If using a USB Charger]

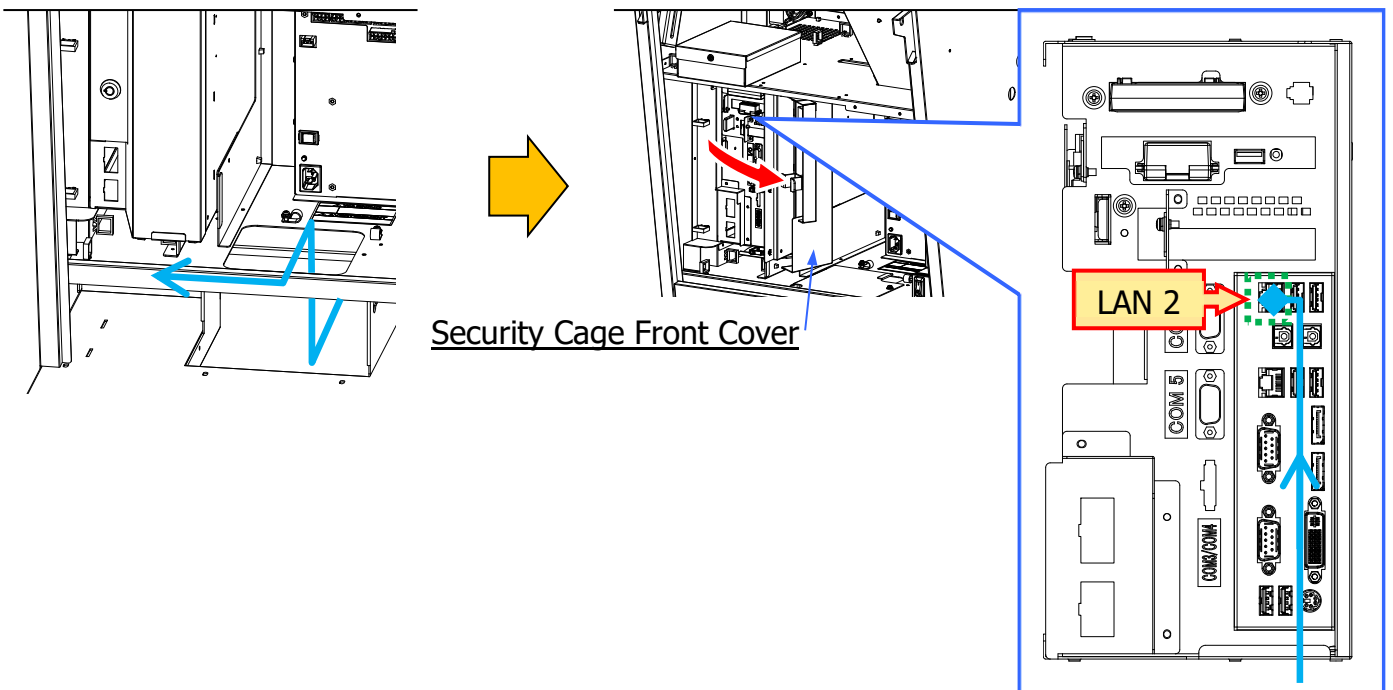
Insert the AC Adapter of the AC Cable for the USB Charger, at the bottom of the rear side of the Station.



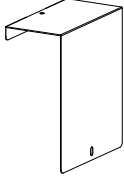
5. Remove 1 screw and detach the Bottom Cover of the [STATION No.03].



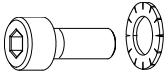
6. Unlock the Security Cage Front Cover and connect the [STATION 03] LAN Cable to the [LAN 2] Port indicated below.

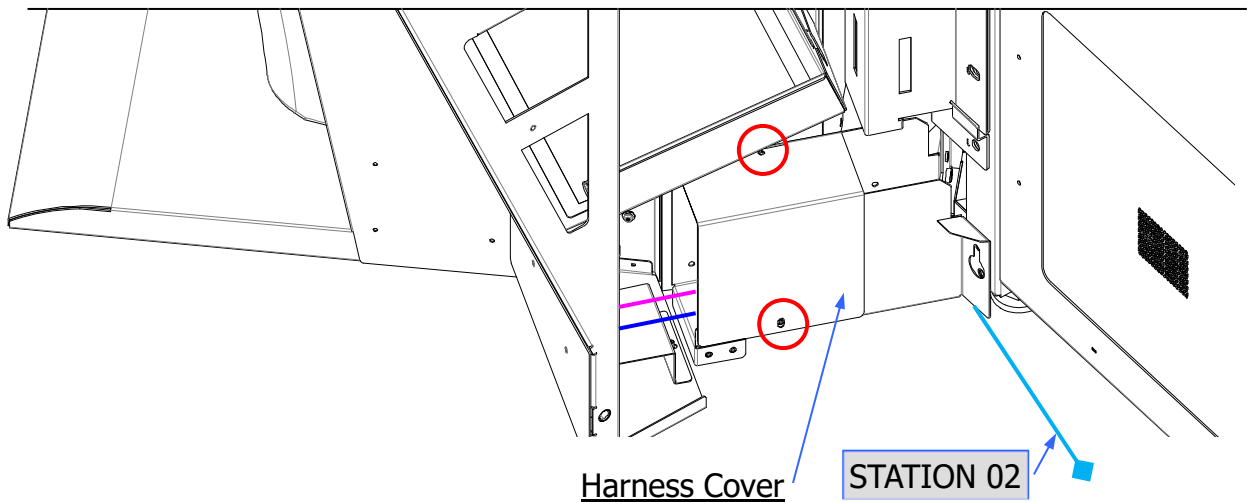


7. Prepare the following Parts.

Parts Name	Qty	Appearance
Harness Cover	1	

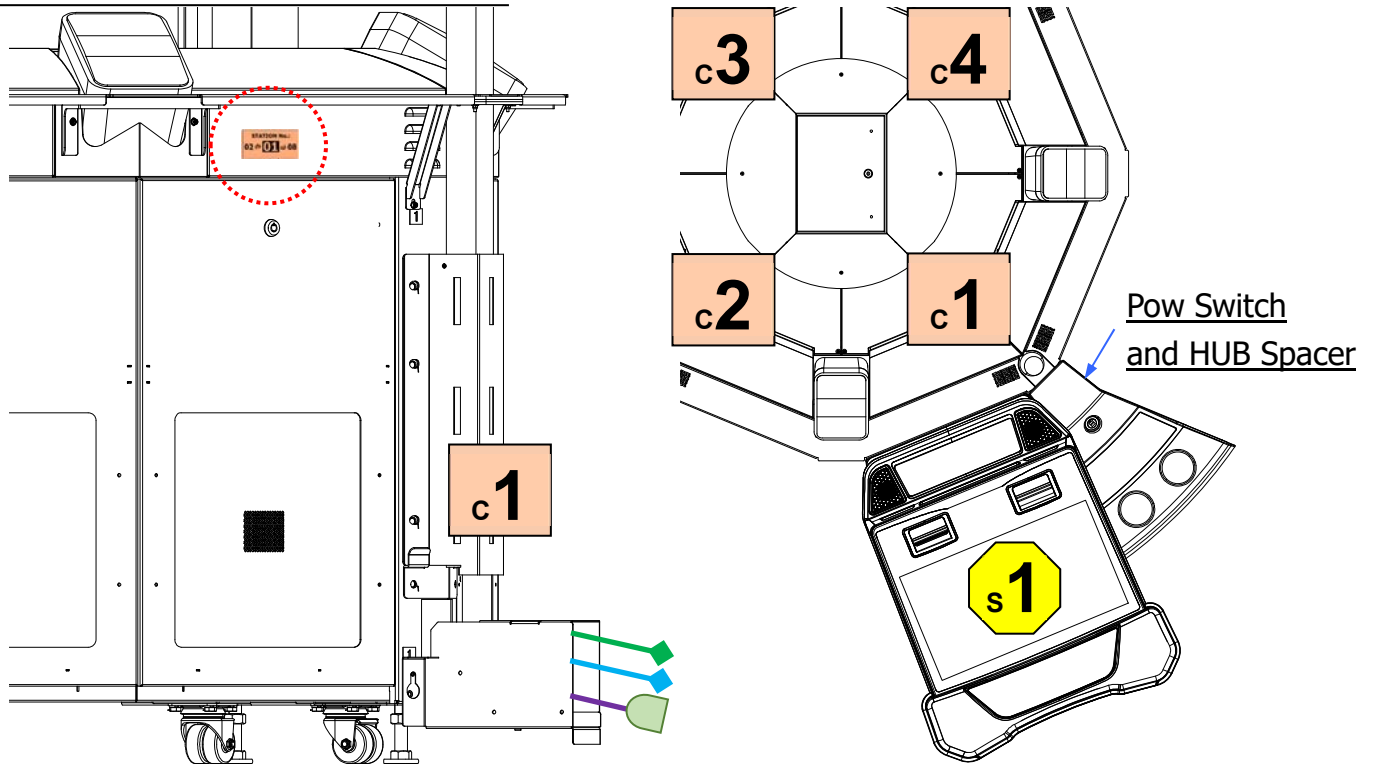
8. Affix the Harness Cover to the Harness BRKT by using 2 screws, while paying attention not to pinch the Cables.

	Fasteners	Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	2	

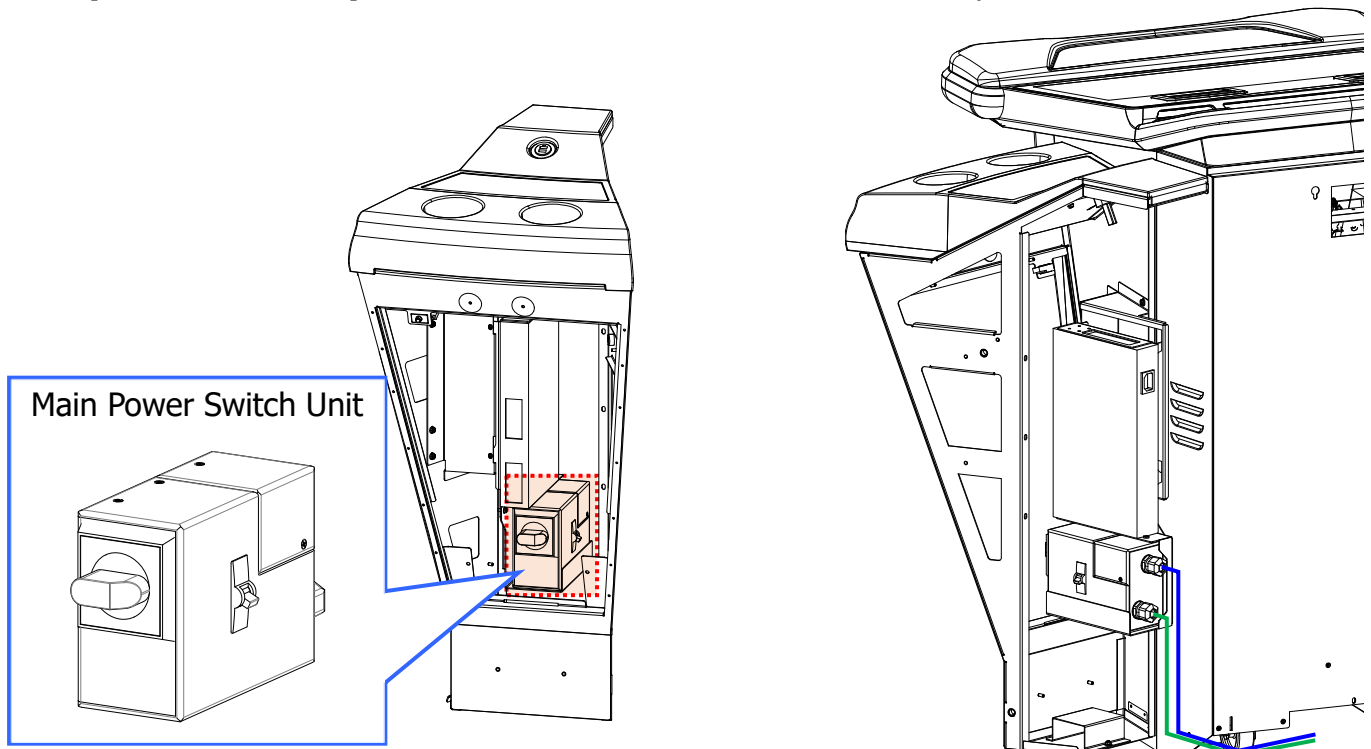


3. 2. 1. 13: Installing the Pow Switch and HUB Spacer Unit to Center Unit

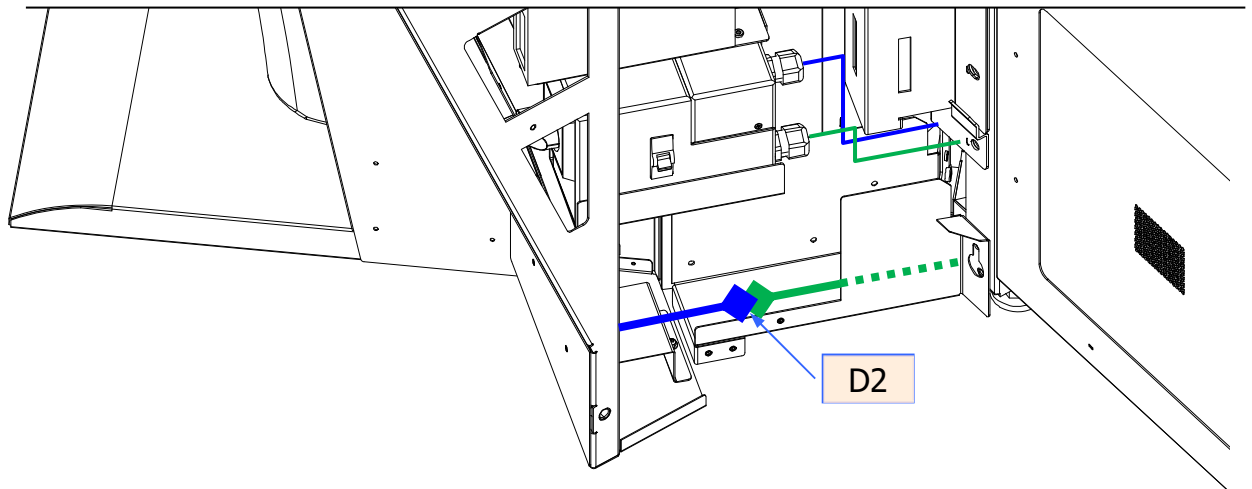
1. Move the [Station 1 Unit] closer to side labelled by the sticker [STATION No.01].



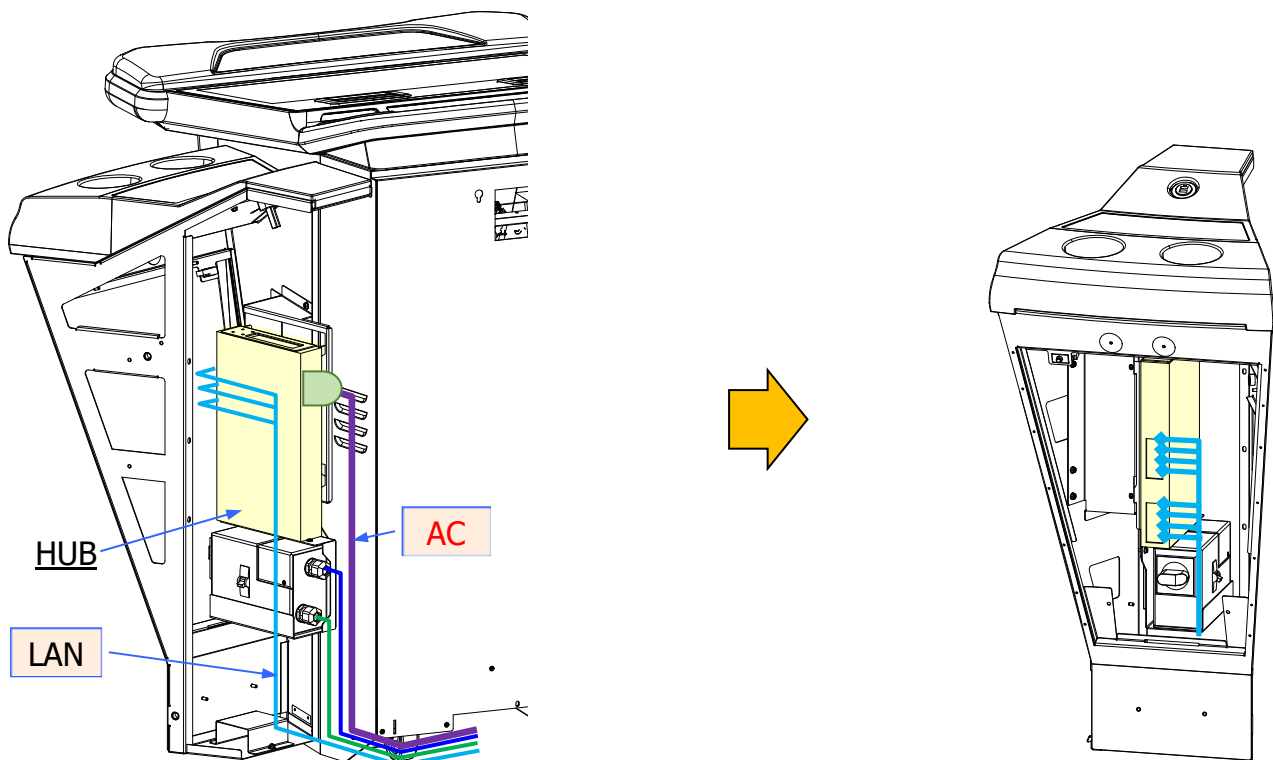
2. Unlock and detach the Pow Switch and HUB Spacer Door. Install the Main Power Switch (Refer to 3.2.1.9) on the BRKT of the Pow Switch and HUB Spacer as illustrated below.



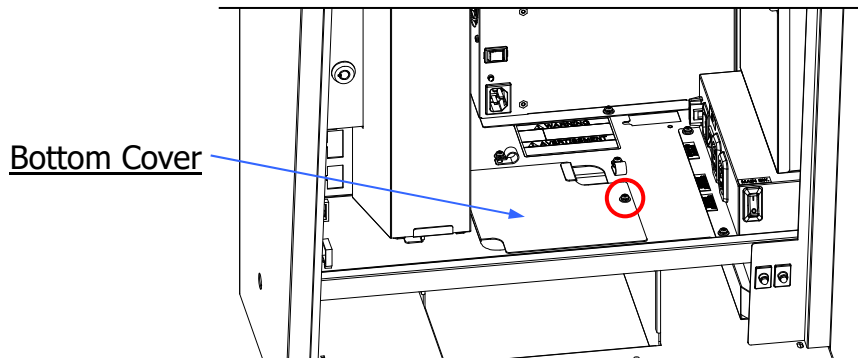
3. Connect the [D2] Connector from the Center Unit (**Refer to STEP 2 of 3.2.1.7**) with the [D2] Connector of the [Pow Switch and HUB Spacer Unit].



4. Connect to the HUB the AC Cable (for HUB Unit) from the Center Unit (**Refer to STEP 1 of 3.2.1.10**), the 9 [LAN] Cables (**Refer to STEP 2 of 3.2.1.10**), and the [LAN] Cable (**Refer to STEP 2 of 3.2.1.7**).



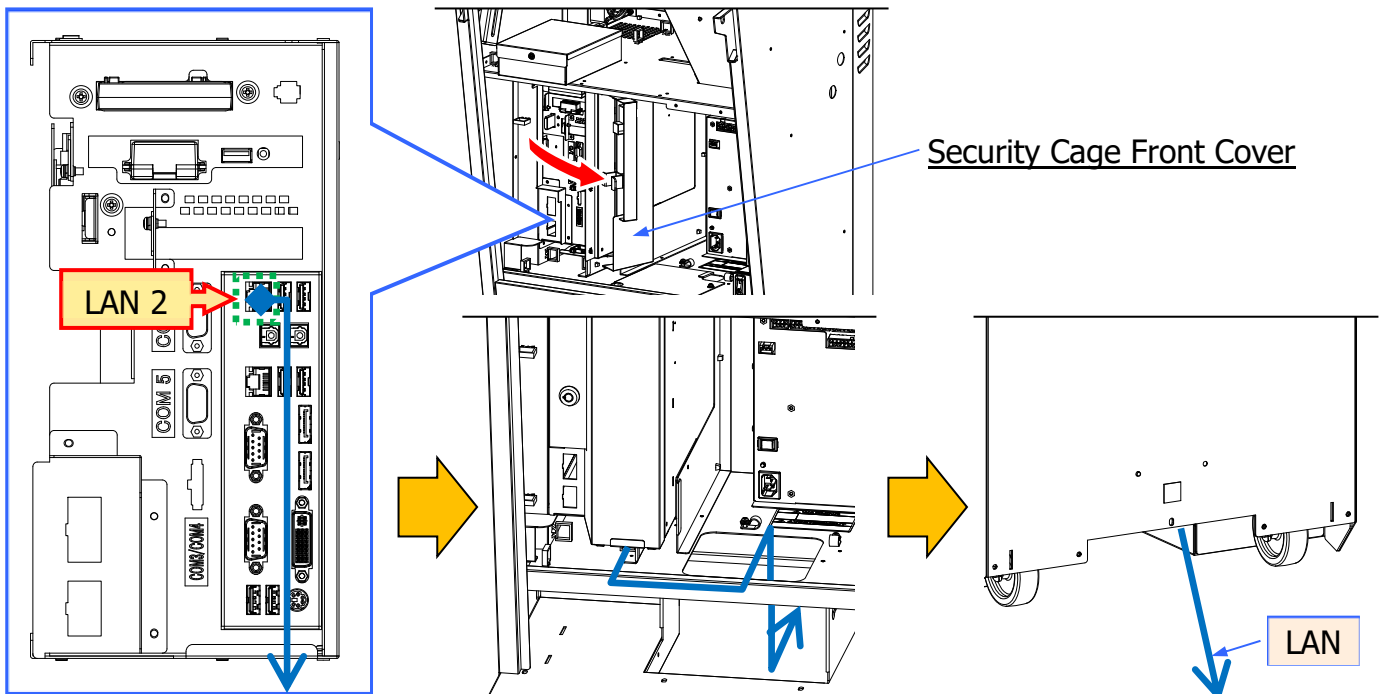
5. Remove 1 screw and detach the Bottom Cover of the [STATION No.01].



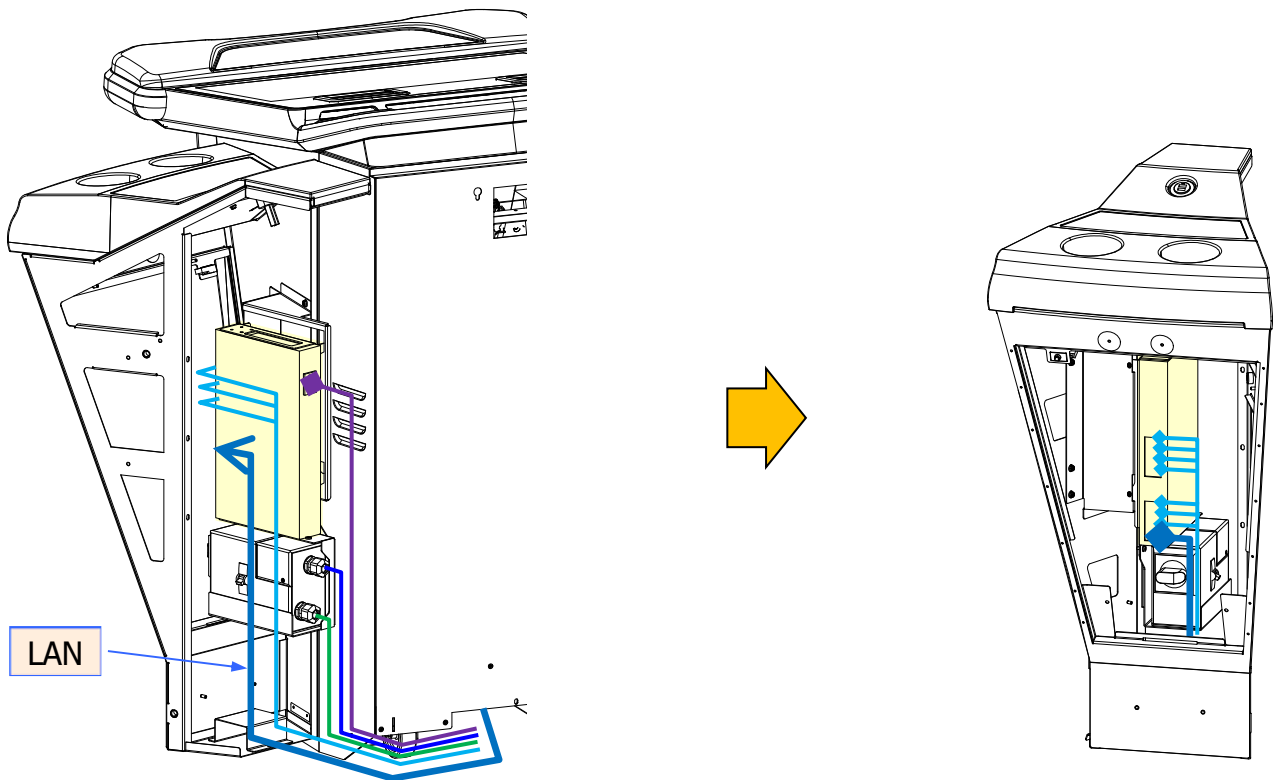
6. Prepare the following Parts.

Parts Name	Qty	Appearance
LAN Cable(for Station: 2.5m)	1	

7. Unlock the Security Cage Front Cover and connect the [LAN] Cable to the [LAN 2] port indicated below, then pull the opposite head out from the station.

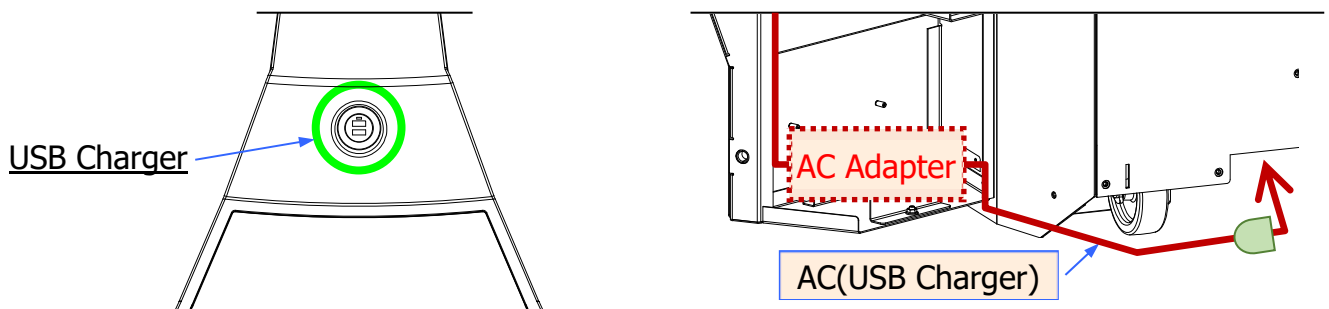


8. Connect [LAN] cable that was pulled out at STEP 7, to the Port of the HUB.

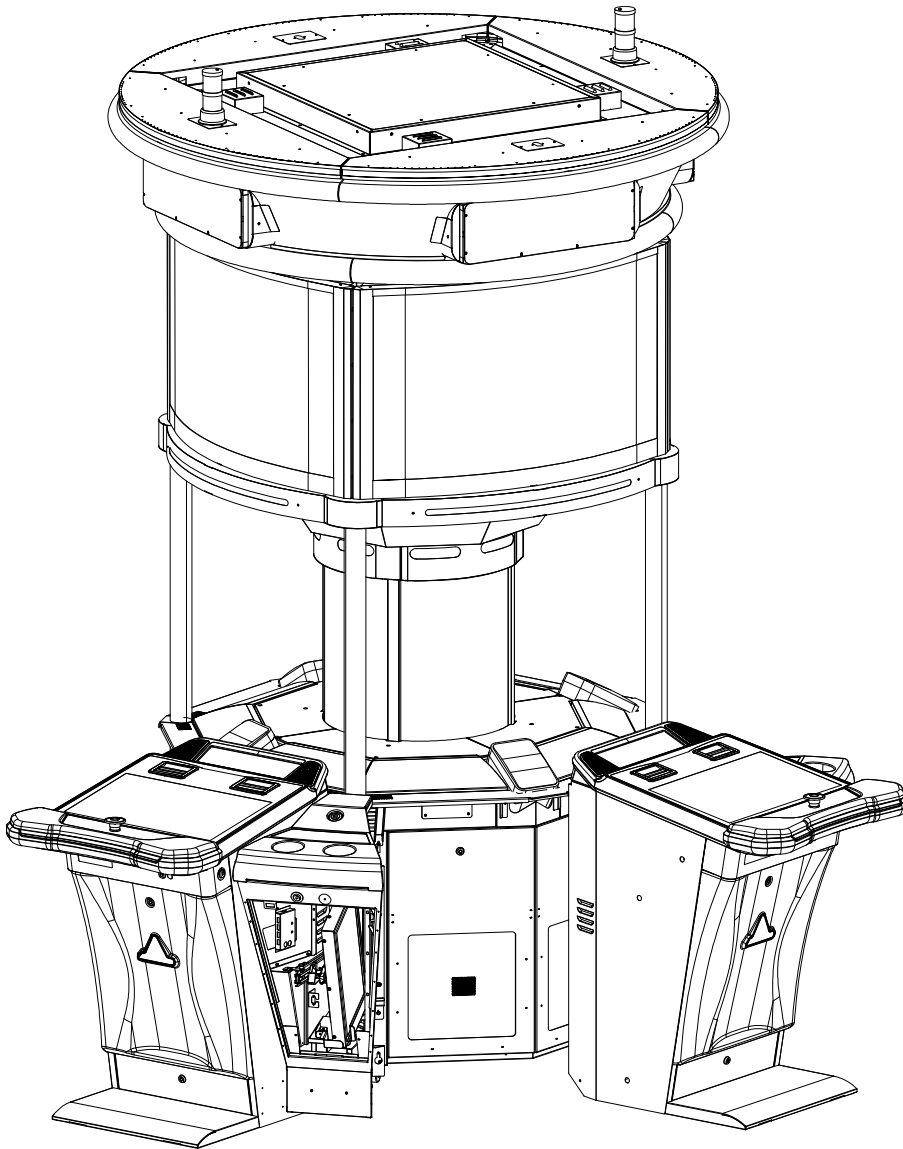


i NOTE: Option-[If using a USB Charger]

Insert the AC Adapter of the AC Cable for the USB Charger, at the bottom of the rear side of the Station.



At this point the machine should look like this.



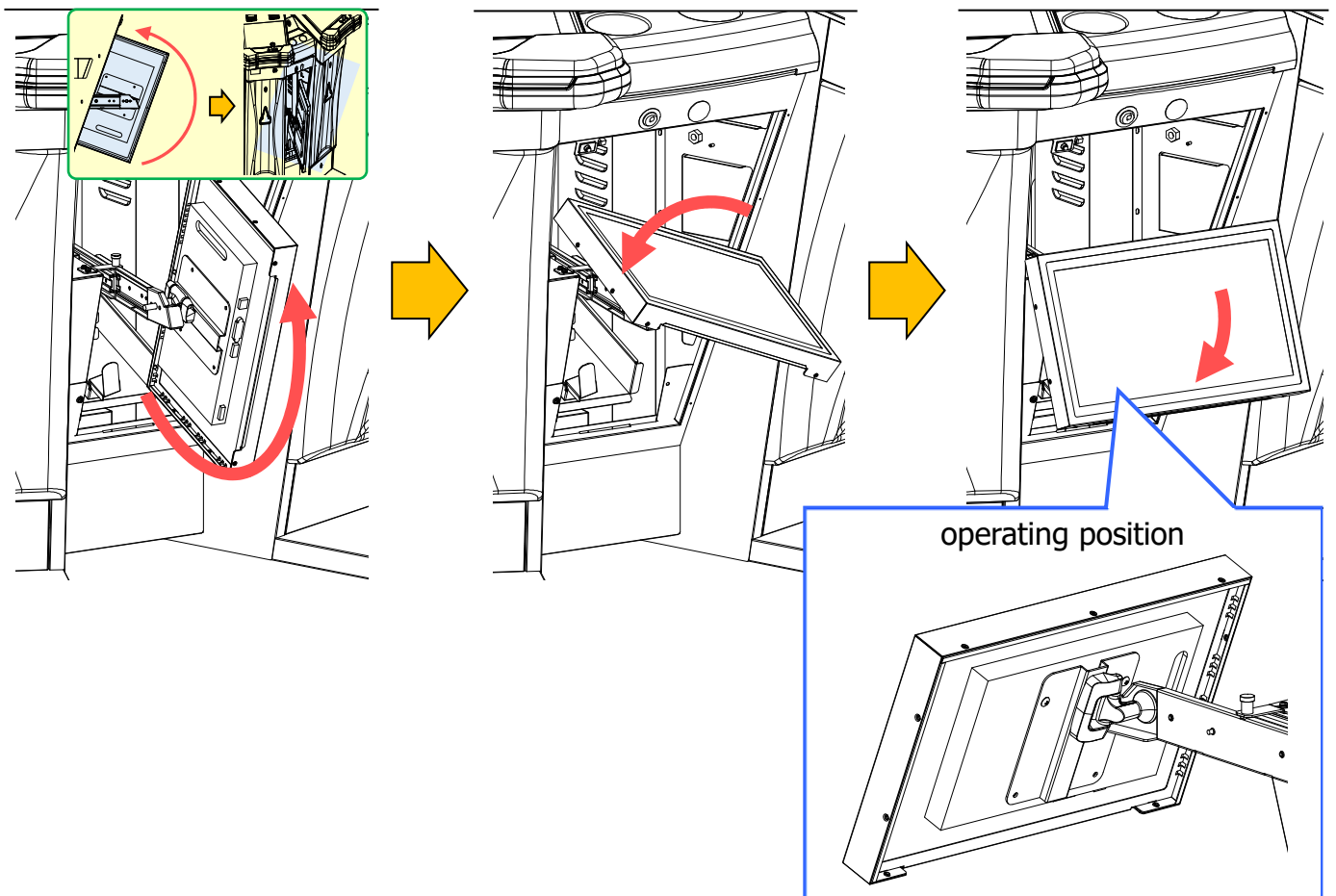
3. 2. 1. 14: Checking Operation of the Center Unit

Please do a functionality of the Center Unit before installing the remaining Station Units, to check if the procedures up to now were correct.

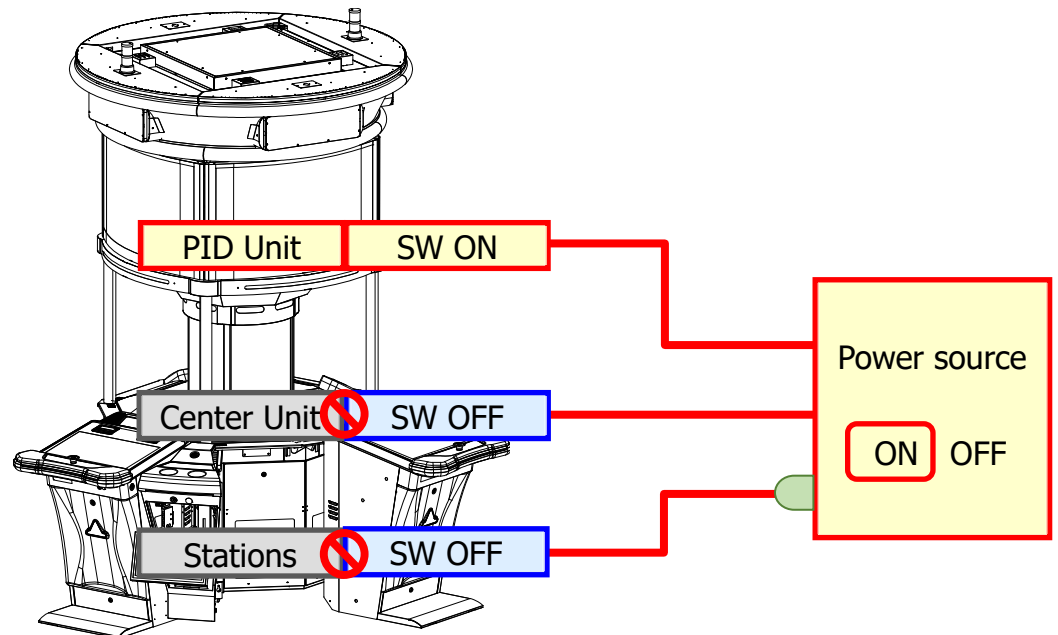
Before turning ON the Center Unit, check the following:

- All the cable connectors are securely seated.
- The machine is properly earthed.

1. Set the LCD Control Pad to the operating position (Refer to Chapter 2.1 on SERVICE Manual).



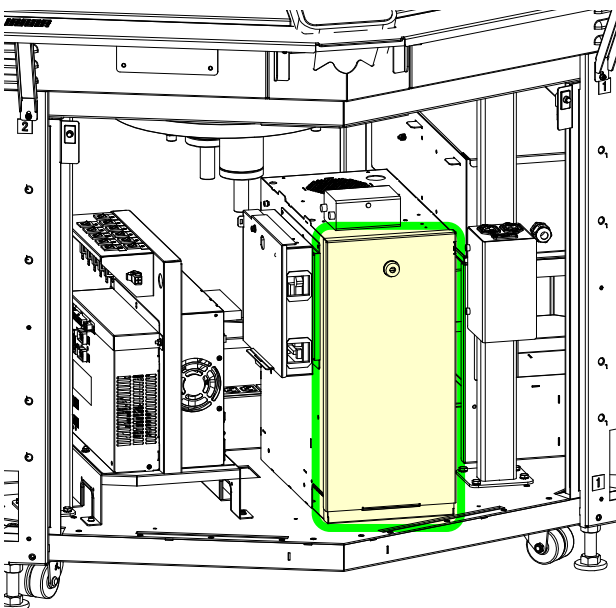
2. First turn ON the power source. The devices directly connected to the power source will boot up.



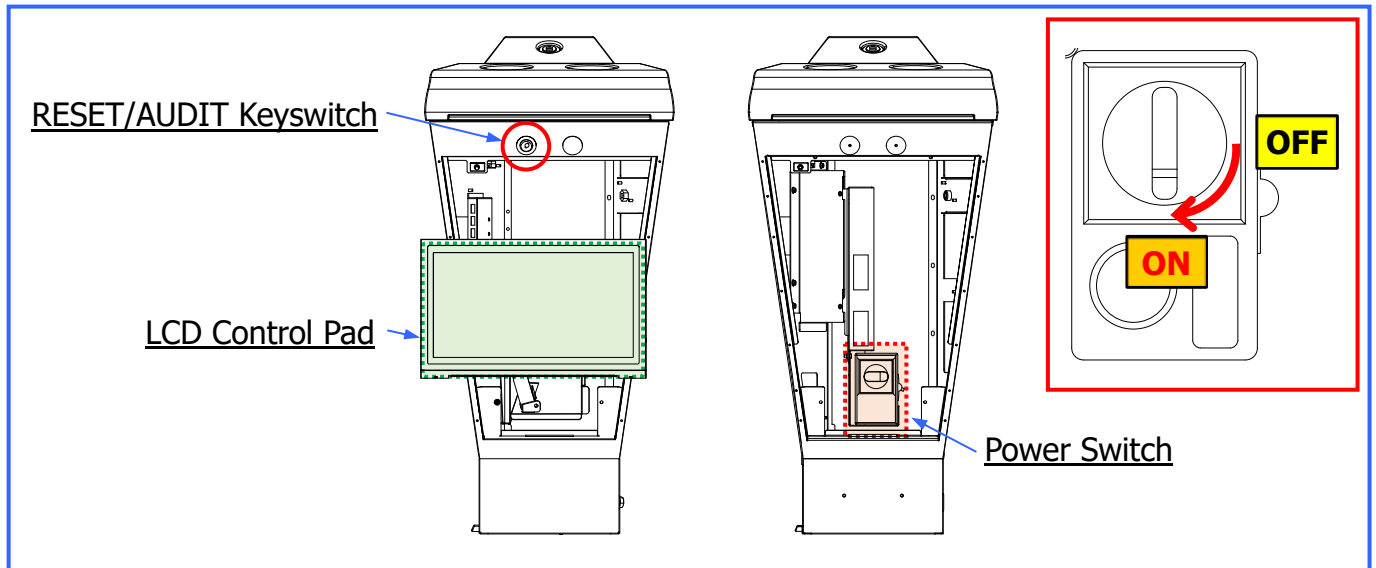
3. To change the AUDIT settings of the Center Unit, unlock and remove the Security Cage Door inside the Center Unit.

⚠ CAUTION!

For specific jurisdictions, to configure **"IMPORTANT SETTING (BASIC SETTING)"** a Setting GAL Cassette and a Setting Password are necessary. Refer to **"Configuring Settings by using a Setting GAL :for NEVADA/ARIZONA"** on chapter 6 of the SERVICE Manual to configure these settings, and after that proceed with the operations from STEP 10 of this chapter.



4. Turn to ON the Power Switch of the Center Unit.



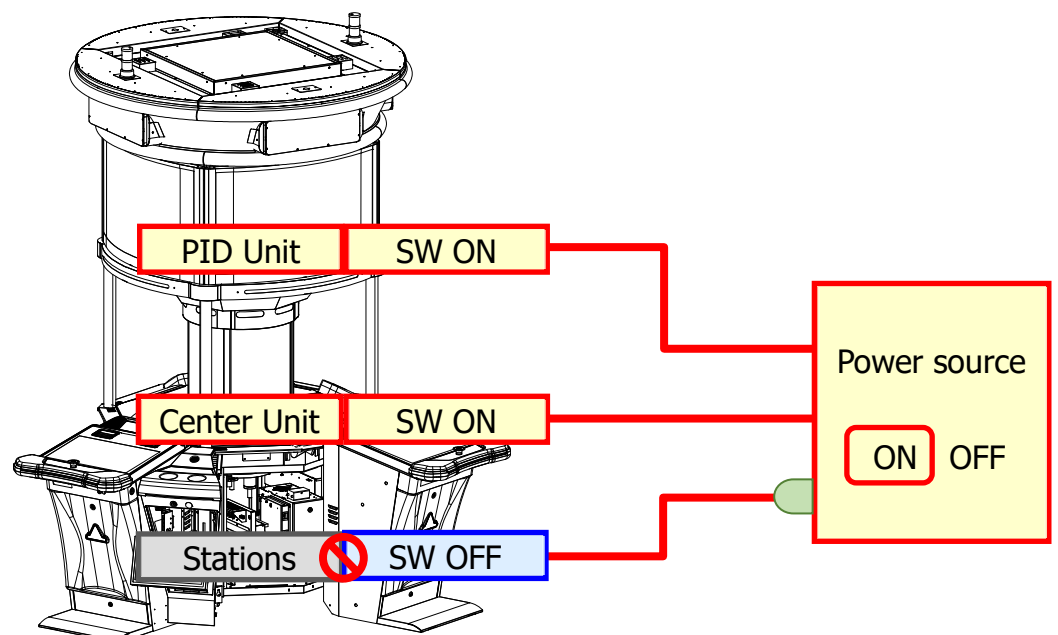
CAUTION!

When doing "Power OFF-ON" wait at least 15 seconds before power On.

NOTE:

- If an error appears during the POWER UP SELF TEST, the activation of the Machine halts. Refer to OPERATION Manual Chapter 8 "**Error Messages**" to clear it.
- If it is necessary to perform the RAM Clear (Memory Clear), refer to "**Memory Clear Procedure**" on Chapter 6.

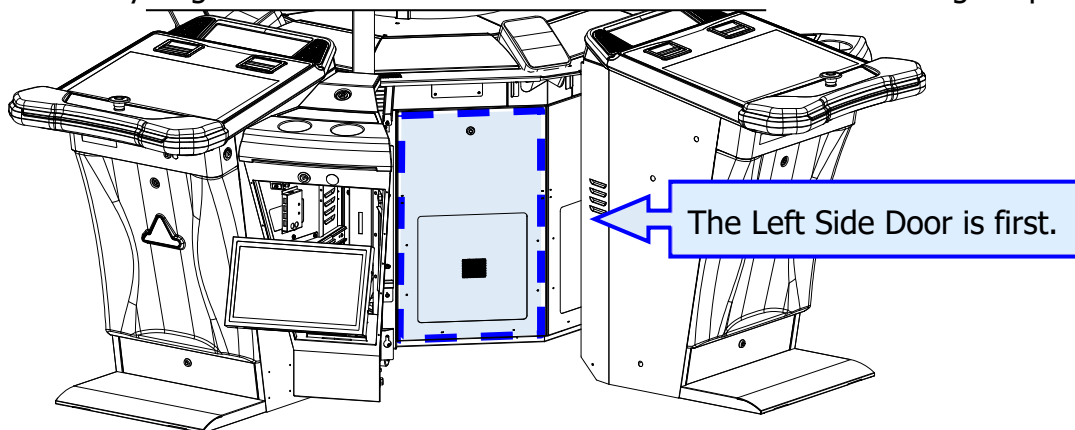
- ◇ Are there any strange sounds or smells coming from the machine?
- ◇ Test the proper functionality of Sensors, RESET/AUDIT key switches etc.



- To call the AUDIT mode, turn the key to the AUDIT position, and return it to the neutral position.



- Refer to "**Version Information**" at Chapter 6 of the OPERATION Manual, to check that the Software version is the same as the Software Version approved for installation.
- Refer to "**Settings**" on Chapter 4 of the SERVICE Manual to configure the necessary settings.
- When settings are complete, press [Exit] or [RETURN TO...] on the menu screen. When the following message appears: [Touch [YES] to SAVE the Update. to CANCEL the Update, touch [NO].], press [YES].
When the [Turn OFF and ON the machine to make the Update effective.] message appears, turn OFF the machine.
- Close the Security Cage Doors and return the Center Unit Doors to their original position.

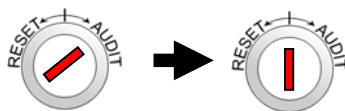


- Turn ON again the Power Switch of the Center Unit.

CAUTION!

When doing "Power OFF-ON" wait at least 15 seconds before power On.

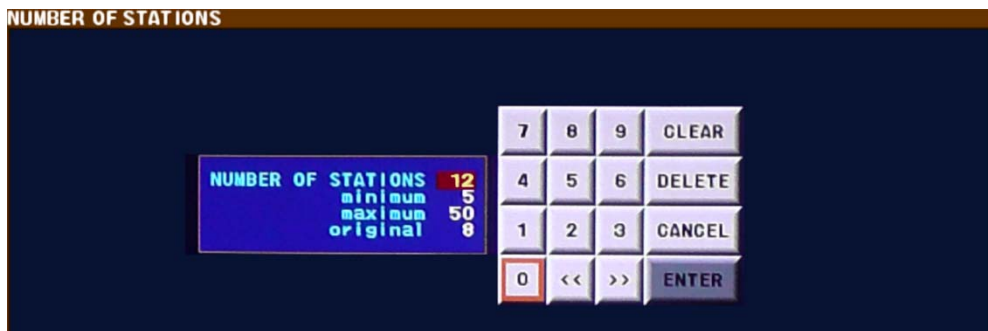
- To call the AUDIT mode, turn the key to the AUDIT position, and return it to the neutral position.



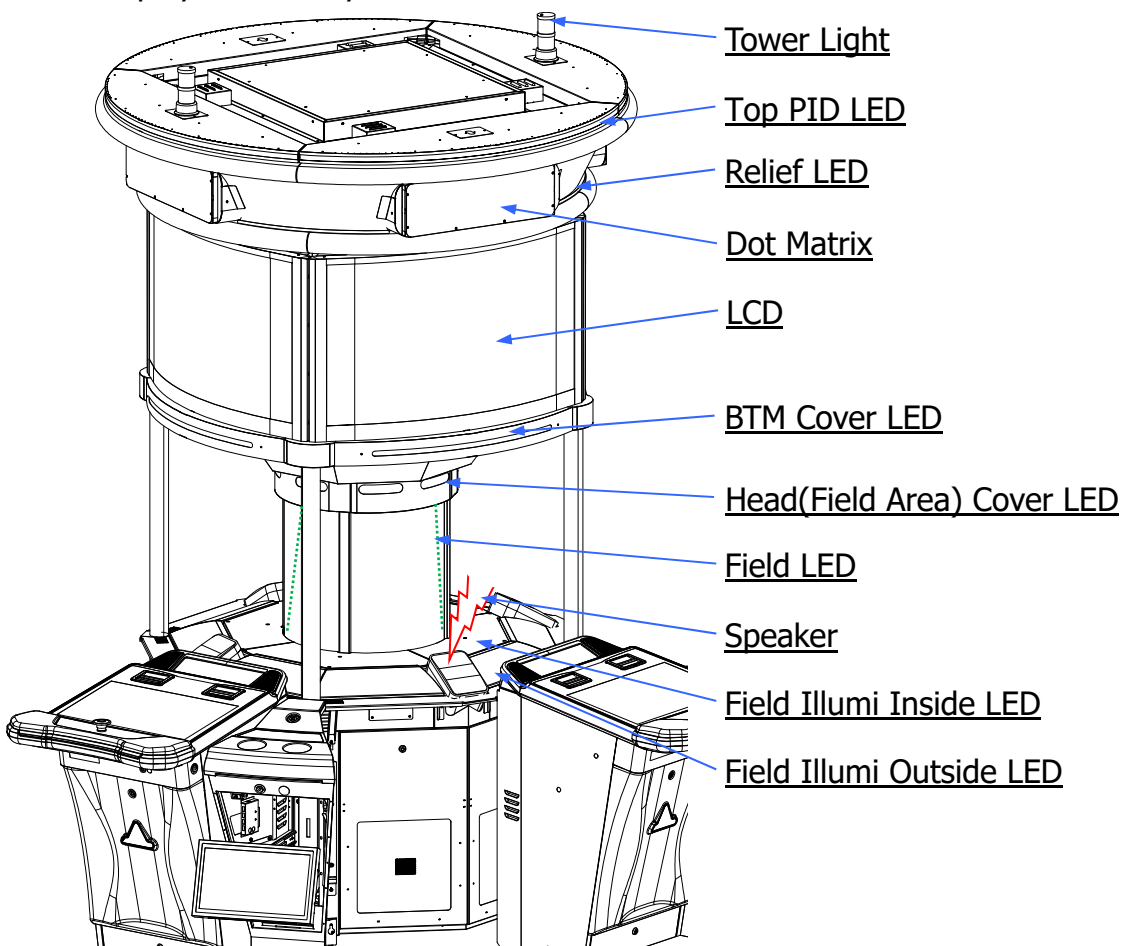
12. Refer to "NUMBER OF STATIONS" on "**Extra Settings**" at Chapter 4 of the SERVICE MANUAL, to set the total number of the Stations.

i NOTE: Option-[In case it is planned to extend the number of stations]

Set the total number of the stations, including the extension. (Ex: if 4 stations are added to the [original] 8, set $8+4=[12]$).



13. Refer to "**Live Camera Test**" at Chapter 4 of the SERVICE Manual, to check if the Live Camera Screen is displayed.
14. Refer to "**Output Test**" at Chapter 4 of the SERVICE Manual, to check if the illuminations are lit correctly.
15. Refer to "**Sound Test**" at Chapter 4 of the SERVICE Manual, to check if the Game sounds are played correctly.

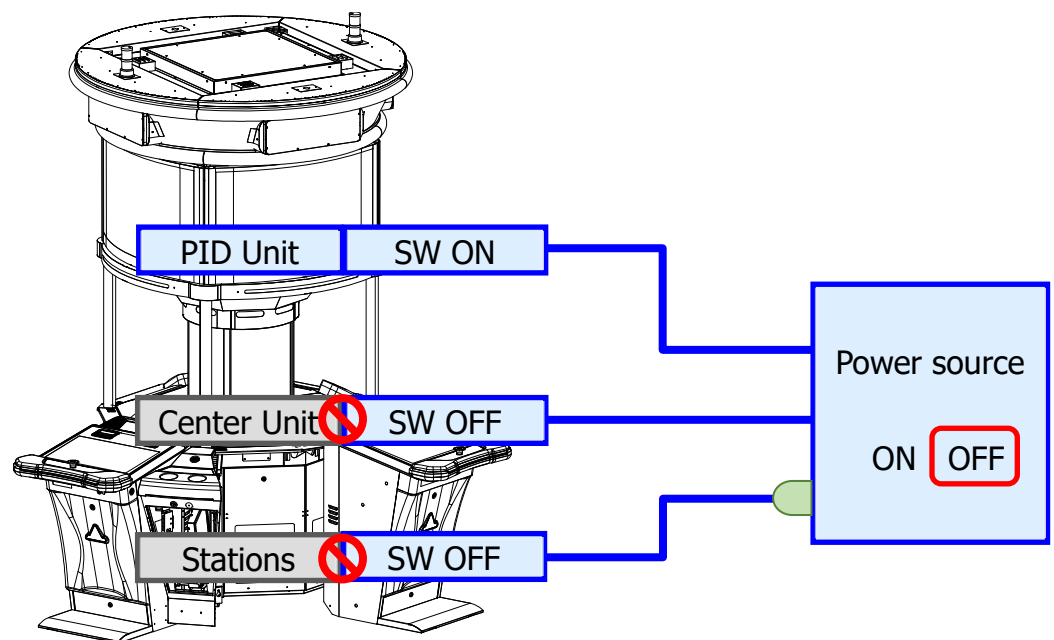


- Exit the AUDIT and store the LCD Control Pad (refer to Chapter 2.1 of the SERVICE Manual), then close the Control Spacer Door and the Pow Switch and HUB Spacer Door. Check if the announcements and the BGM play correctly. This concludes the functionality test on the Center Unit.

i NOTE:

If a "GAME FAILURE ERROR" error appears, clear the error by turning the key to the RESET position, and returning it to the neutral position.

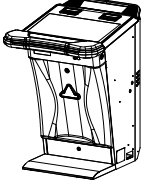
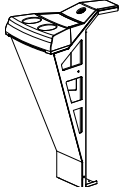
Turn OFF the Power switch of the Center Unit and then turn OFF also the power source.



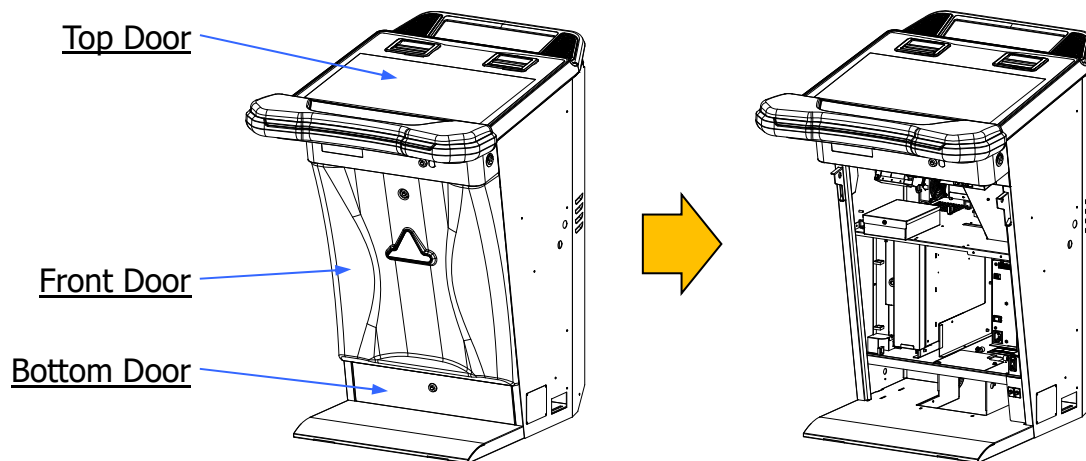
3. 2. 2: Stations

3. 2. 2. 1: Attaching the Spacer Units for the other Stations

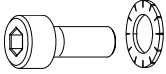
1. Prepare the following Parts.

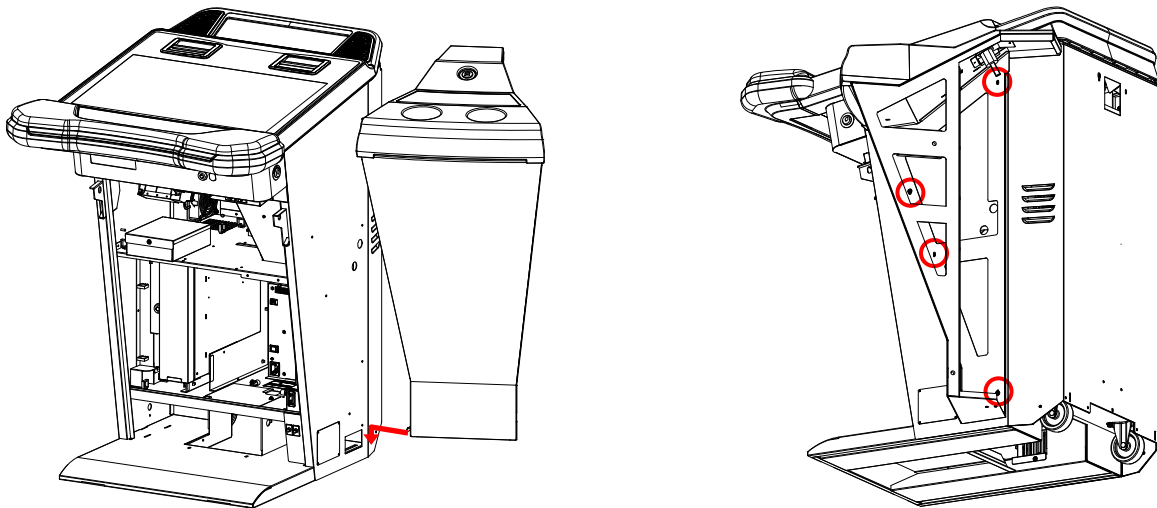
Parts Name	Qty	Appearance
Stations (STATION No.02, 04, 05, 06, 07 and 08)	6	
Spacer Units (RIGHT FILLER OF STATION No.02, 04, 05, 06, 07 and 08)	6	

2. Unlock and remove the Front Door and Bottom Door of each station.

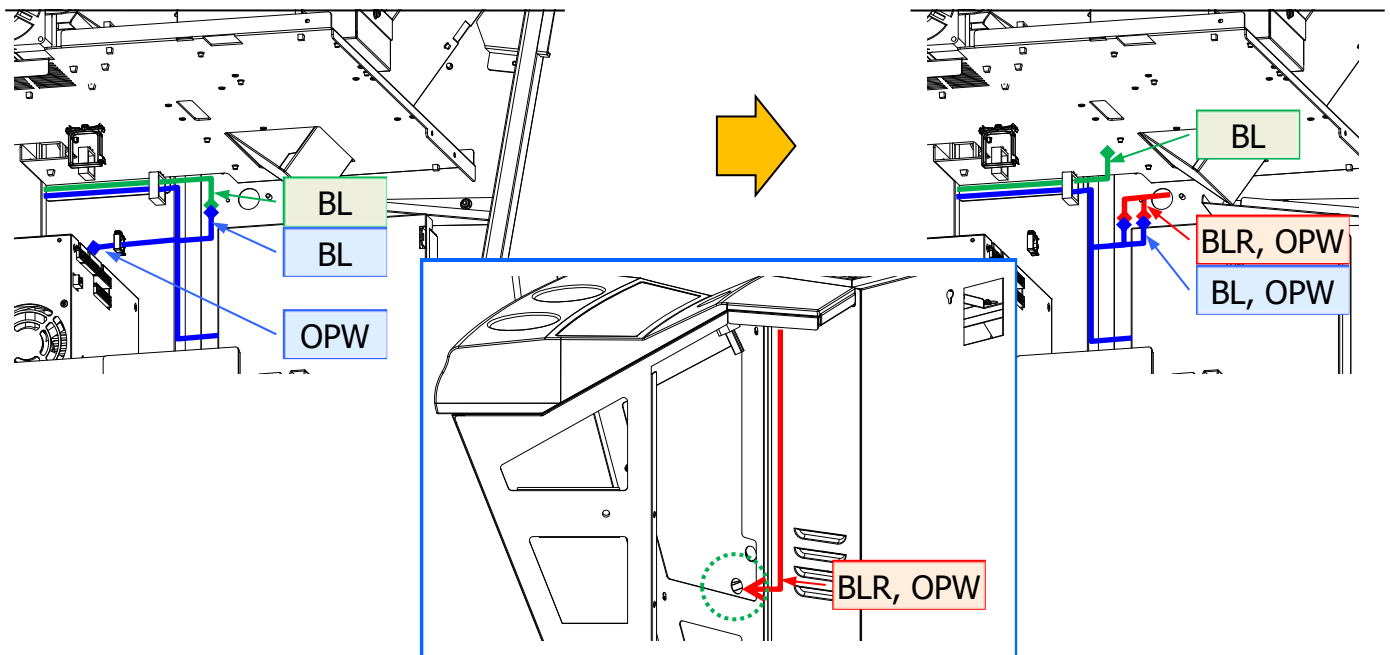


3. Affix the [RIGHT FILLER OF STATION No.x] to the right side of the [STATION No.x] by using 4 screws. The Station will become [Station x Unit].

Fasteners		Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	24	




4. Unplug the [BL] connector connected to the inside of the station. Push inside the Station the [BLR] and [OPW] connectors located inside each Spacer Unit, through the opening on the lateral side, and connect them to the [BL] and [OPW] connectors of the Station.

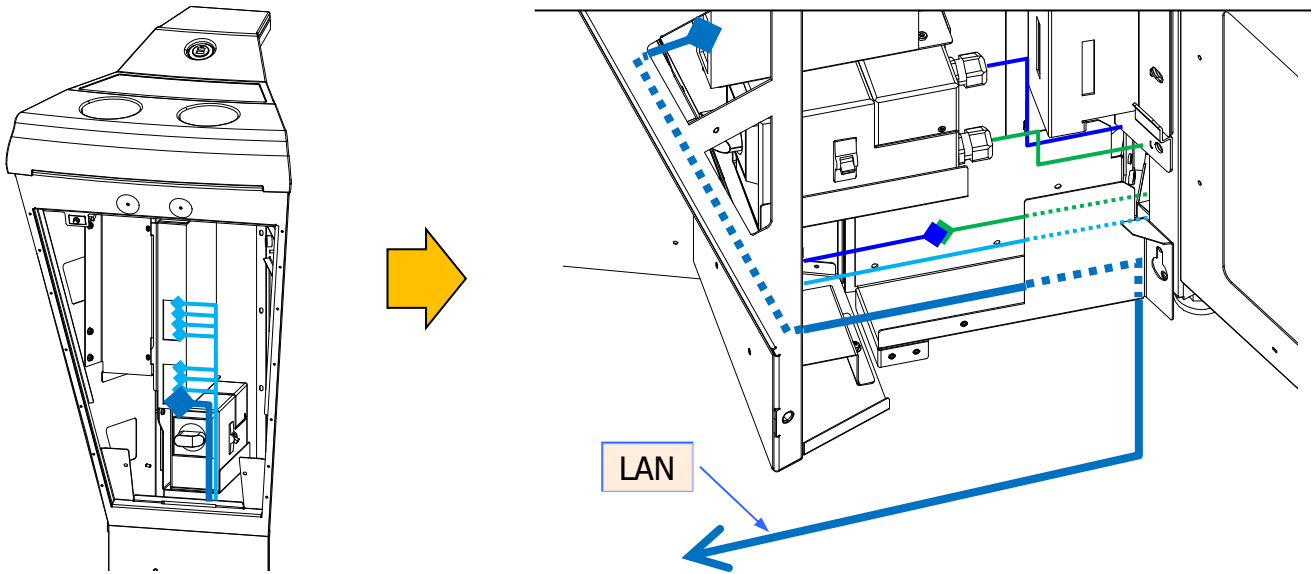


3. 2. 2: Installing Other Stations and Connecting to Center Unit

1. Prepare the following Parts.

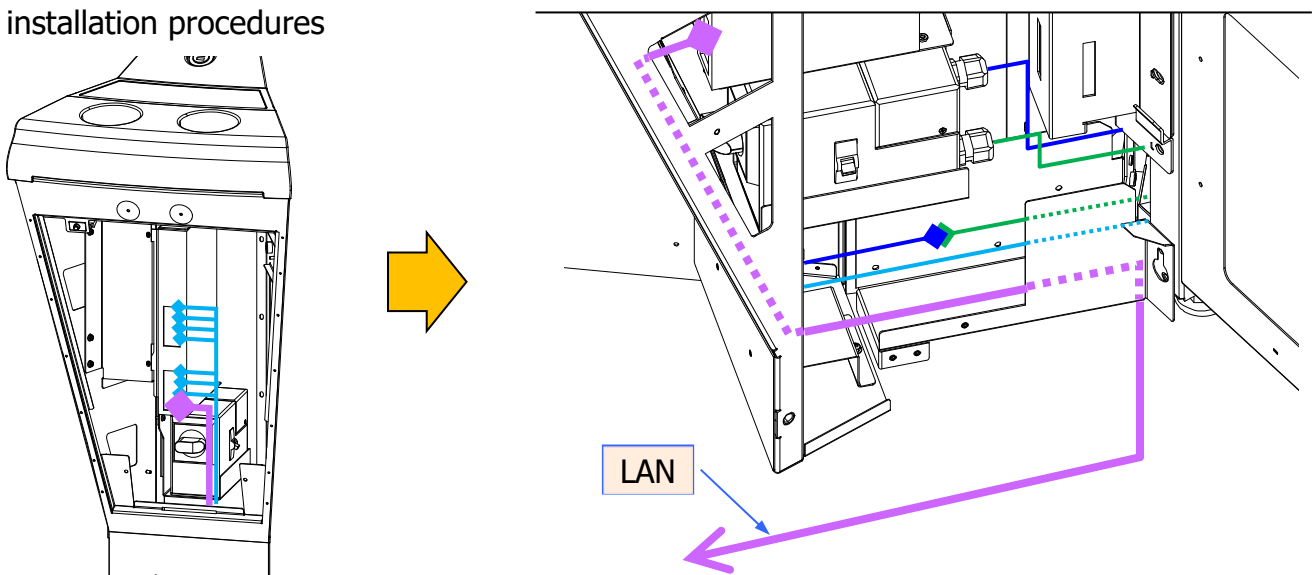
Parts Name	Qty	Appearance
LAN Cable(for Station: 2.5m)	1	

2. Connect [LAN] cable to the Port of the HUB, and thread it as illustrated below.

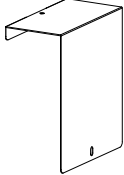


i NOTE: Option-[In case it is planned to extend the number of stations]

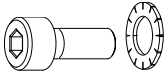
Connect in advance the [LAN] Cables for the Extension Stations, to the Switching Hub (Refer to [Limitation for extension] at 3.2). Then pull the [LAN] Cable from the [Pow Switch and HUB Spacer Unit] and arrange it so that it will not get in the way of the installation procedures

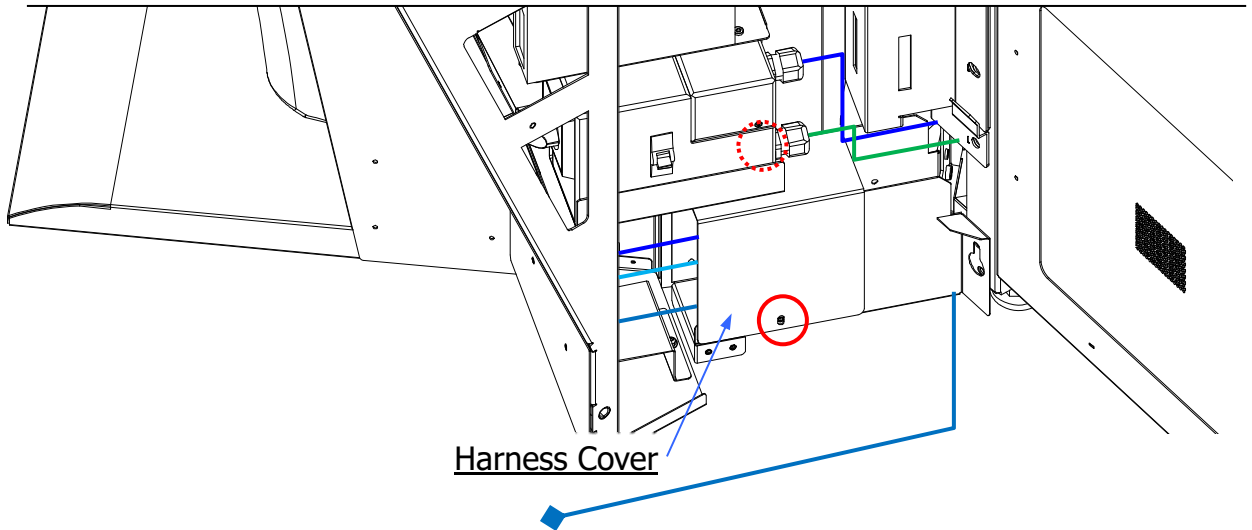


3. Prepare the following Parts.

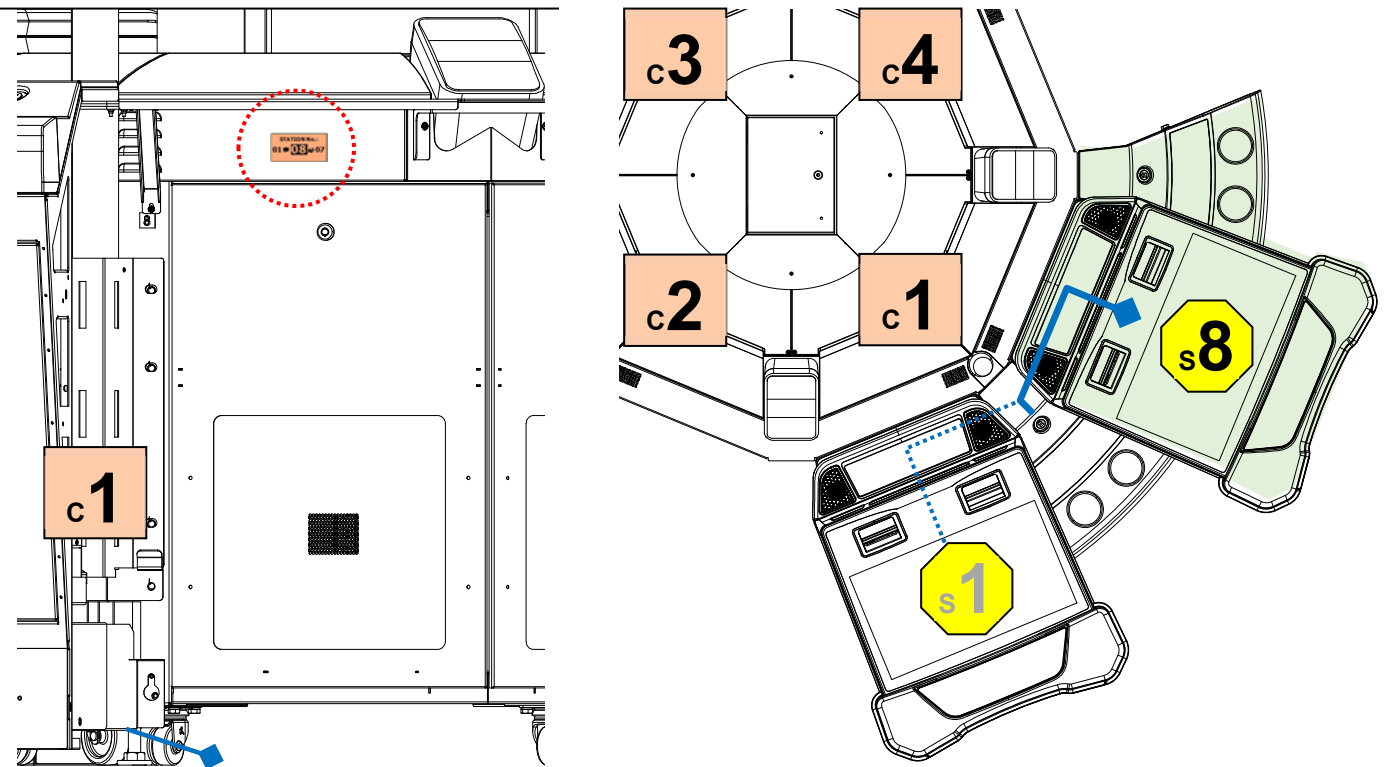
Parts Name	Qty	Appearance
Harness Cover	1	

4. Affix the Harness Cover to the Harness BRKT by using 2 screws, while paying attention not to pinch the Cables.

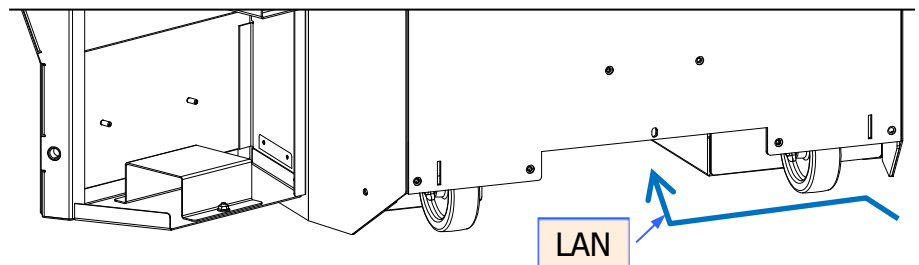
	Fasteners	Qty	Appearance
B	HEXAGON SOCKET M4x10 DIN 912 SERRATED LOCK WASHER 4 DIN 6798	2	



5. Move the [Station8 Unit] closer to side labelled by the sticker [STATION No.08].

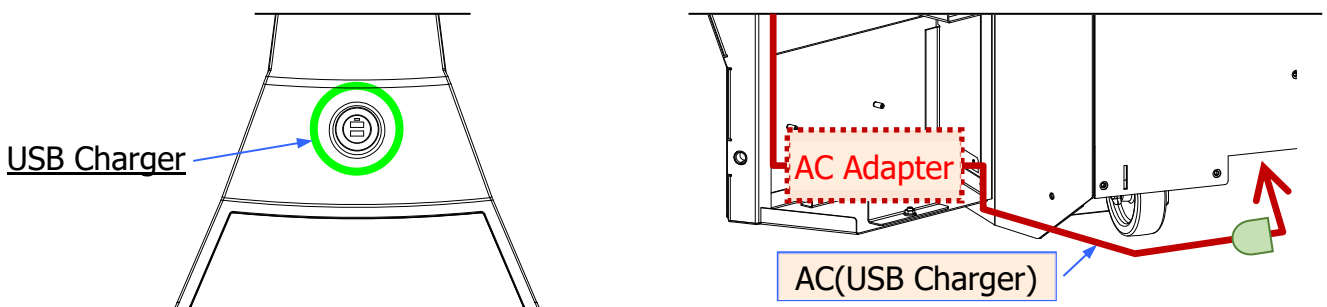


6. Insert the [LAN] Cable moved at STEP 2 , at the bottom of the rear side of the [STATION No.08].

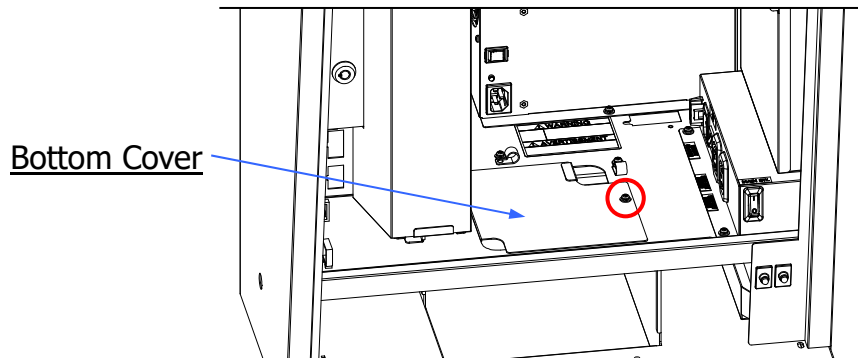


i NOTE: Option-[If using a USB Charger]

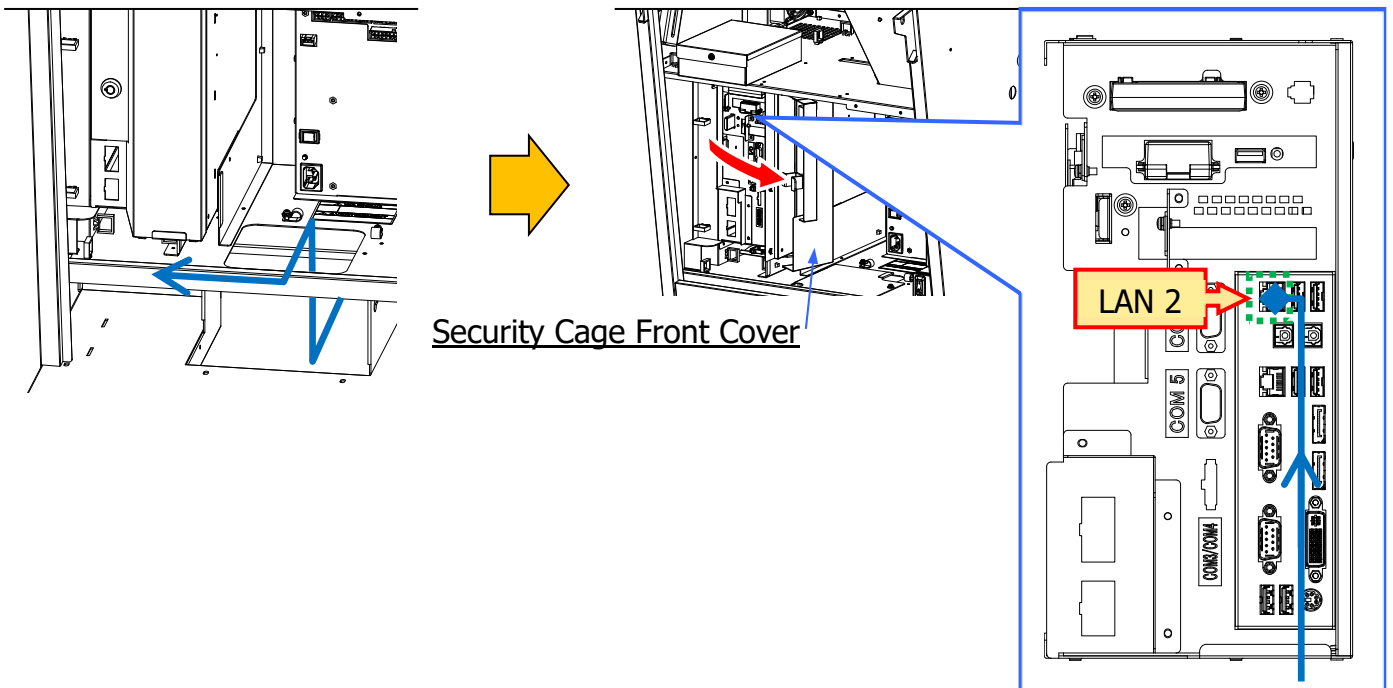
Insert the AC Adapter of the AC Cable for the USB Charger, at the bottom of the rear side of the Station.



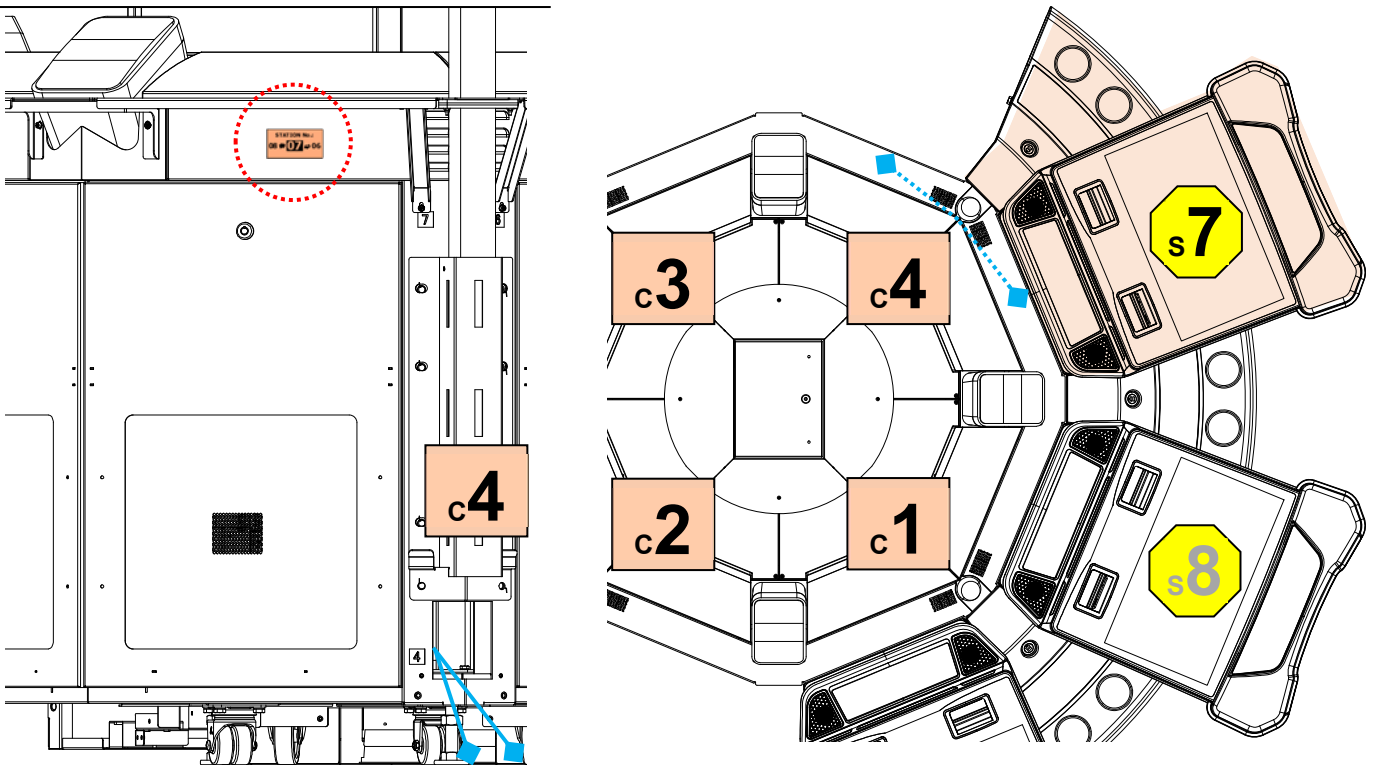
7. Remove 1 screw and detach the Bottom Cover on station.



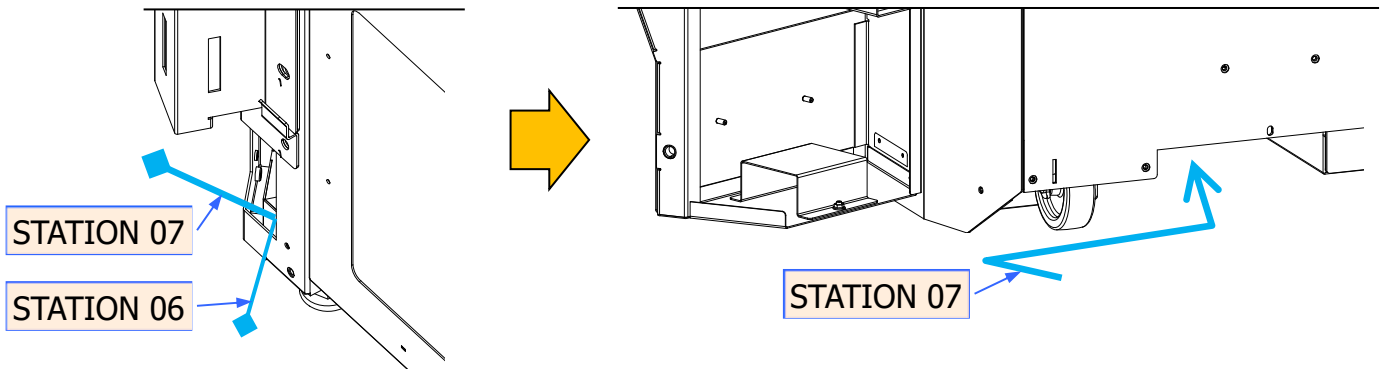
8. Unlock the Security Cage Front Cover and connect the [STATION 08] LAN Cable to the [LAN 2] Port indicated below.



9. Move the [Station 7 Unit] closer to side labelled by the sticker [STATION No.07].

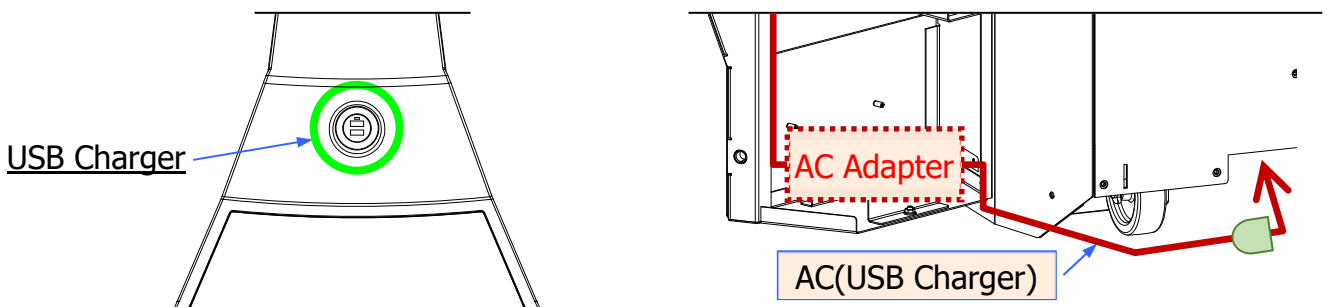


10. Insert the [STATION 07] LAN Cable (Refer to STEP 3 of 3.2.1.10), at the bottom of the rear side of the [STATION No.07].

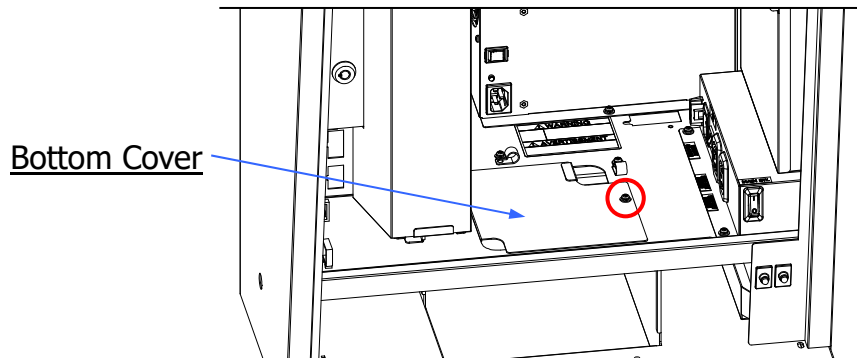


i NOTE: Option-[If using a USB Charger]

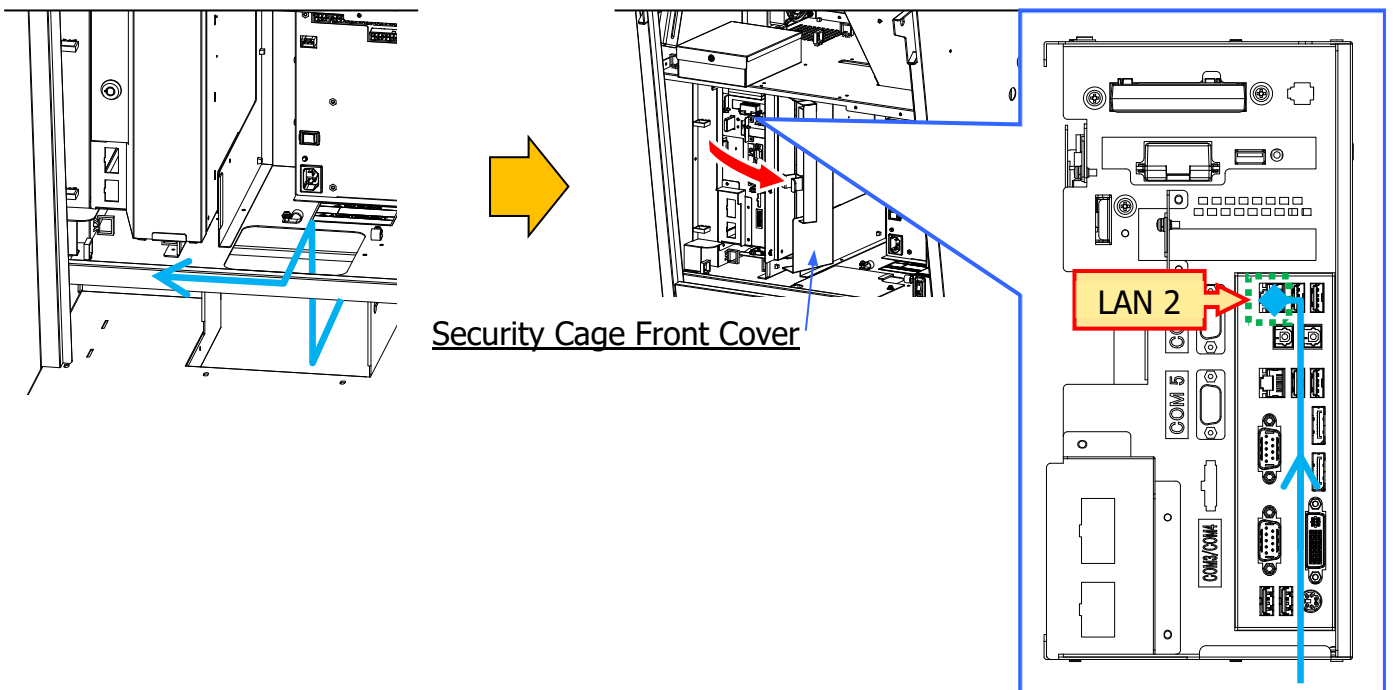
Insert the AC Adapter of the AC Cable for the USB Charger, at the bottom of the rear side of the Station.



11. Remove 1 screw and detach the Bottom Cover on station.

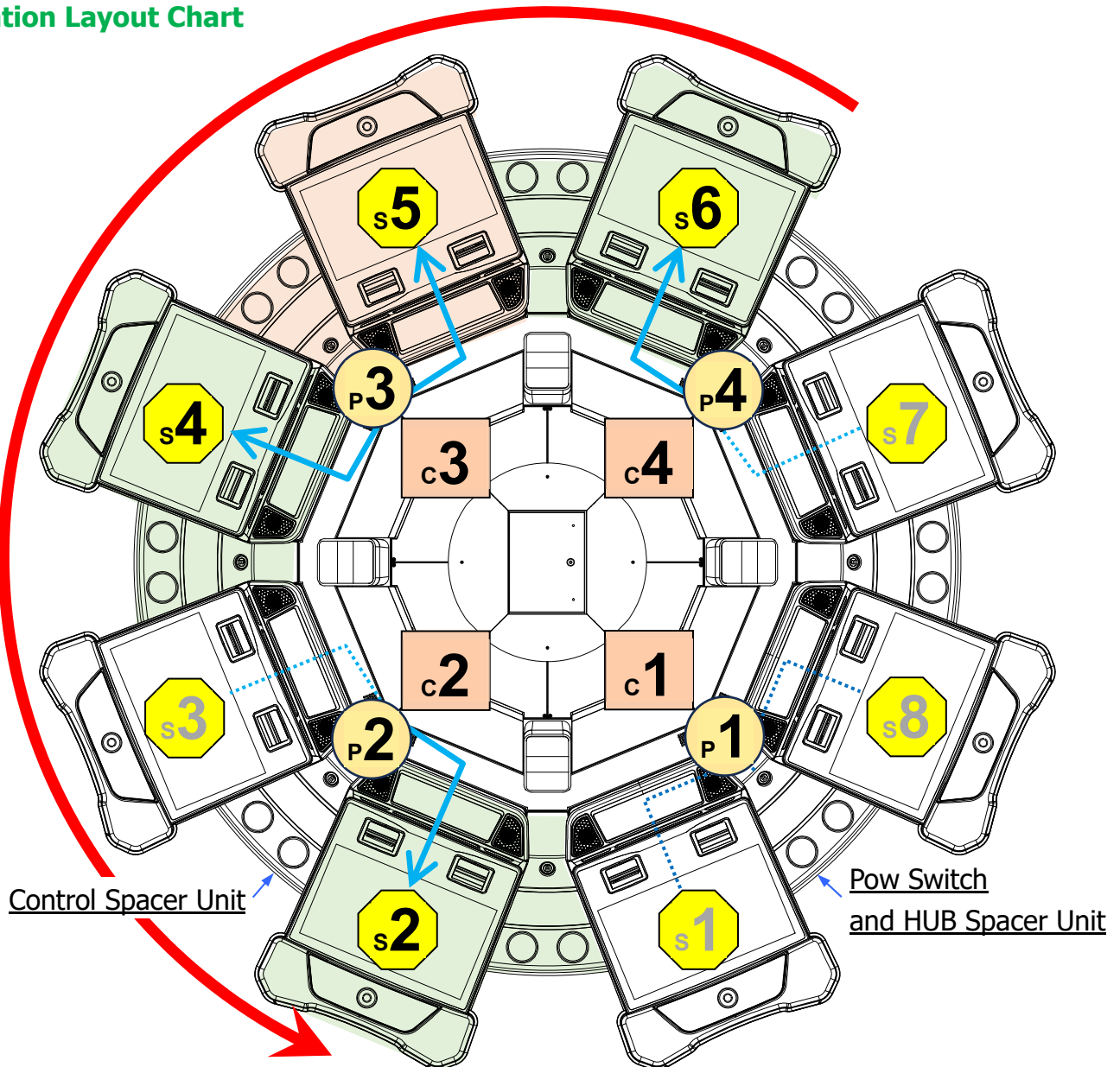


12. Unlock the Security Cage Front Cover and connect the [STATION 07] LAN Cable to the [LAN 2] Port indicated below.



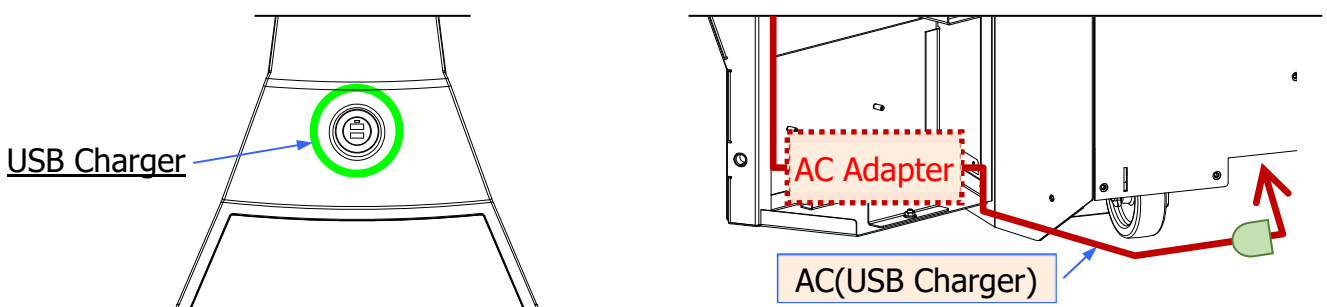
13. Repeat the same procedure by installing the respective Station Units on the side of the Center Unit with the stickers [STATION No.06], [STATION No.05], [STATION No.04] and [STATION No.02] and connect the [LAN] Cable to each of them.

Station Layout Chart

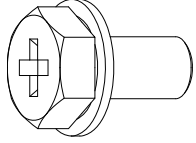


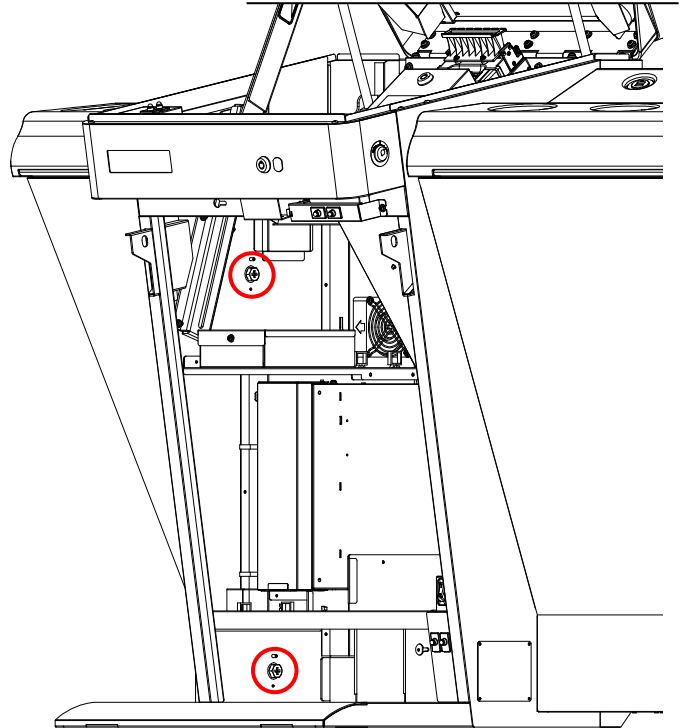
i NOTE: Option-[If using a USB Charger]

Insert the AC Adapter of the AC Cable for the USB Charger, at the bottom of the rear side of the Station.



14. Affix each station to the Spacer Unit immediately on the left, by using 2 bolts.

Fasteners		Qty	Appearance
D	HEX UPSET M10 x 20 3P	16	



i NOTE: [In case it is planned to extend the number of stations]
 Complete in advance the installation of all the Extension Stations. Connect the [LAN] Cables for Extension Stations use, that were connected to the Switching Hub of the Center Unit (**Refer to 3.2.2.2**), to the Extension Stations (or to the Hub connected to that).

3. 2. 2. 3: Hardware Setting for Station Unit

Hardware Settings are necessary for factory shipped products to be operational. Before commencing with operation, make sure to do the settings explained below.



WARNING!

Electrostatic discharge may damage internal components. When accessing the inside of the Cabinet, take anti-static measures (as wearing anti-static wrist band etc.) before proceeding.

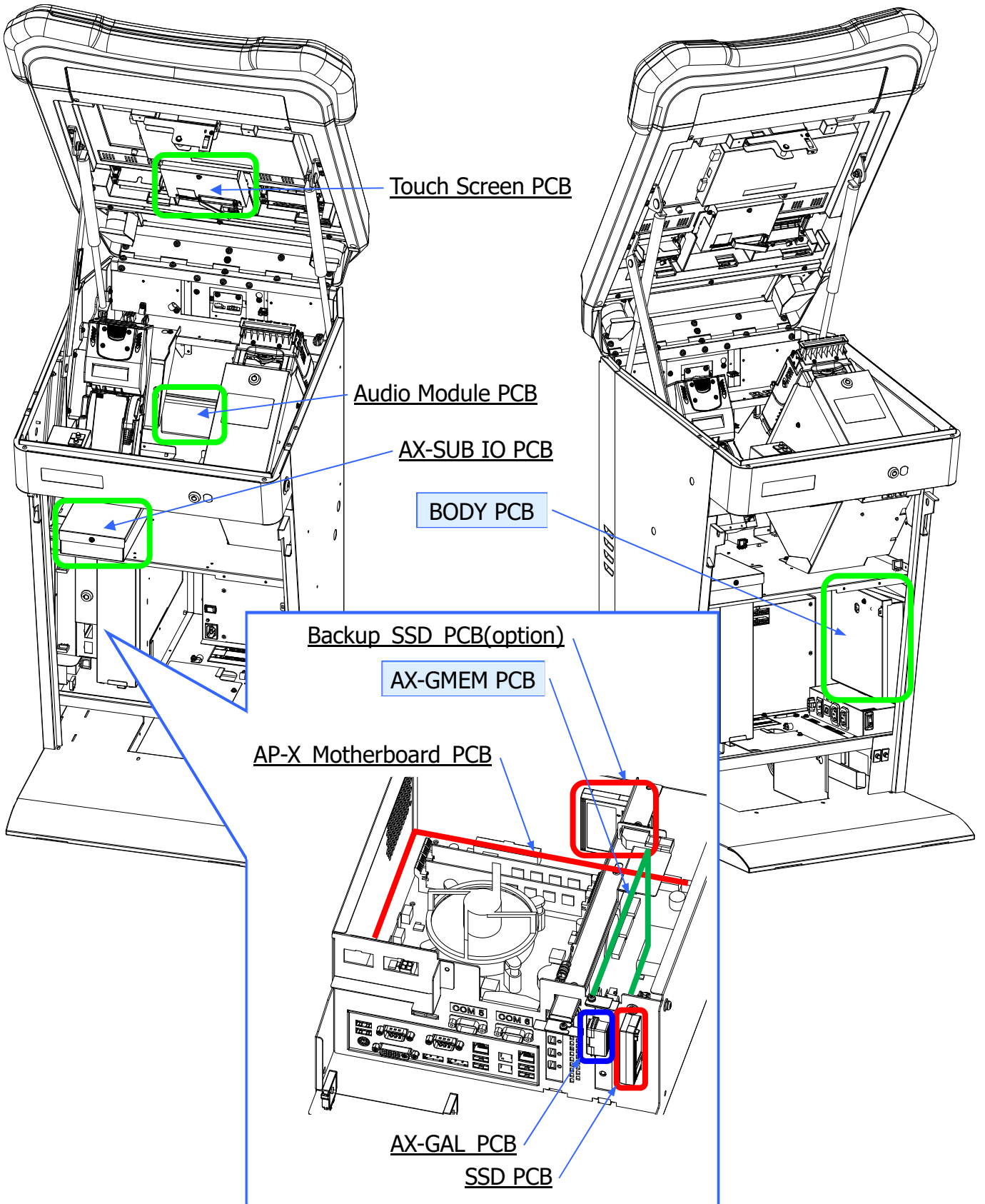


CAUTION!

Hardware Settings must be done by authorized personnel.
Once Hardware Settings are updated, all the Software Meters will be cleared to zero.
Make sure to take note of all necessary Software Meters before updating.

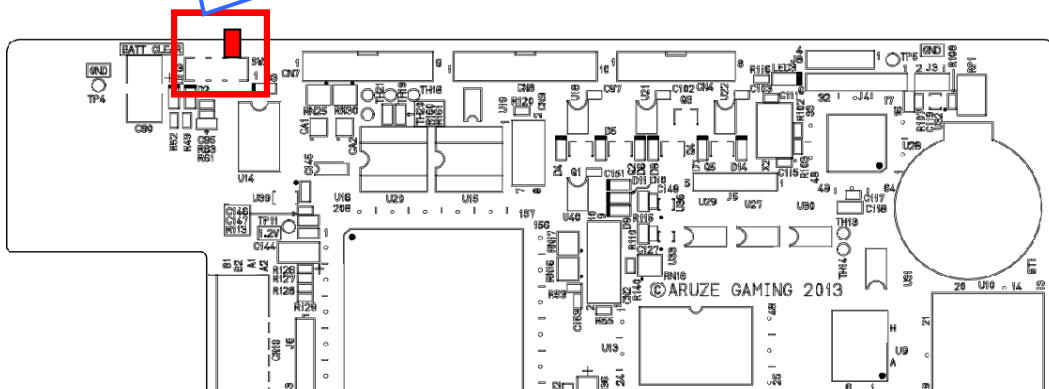
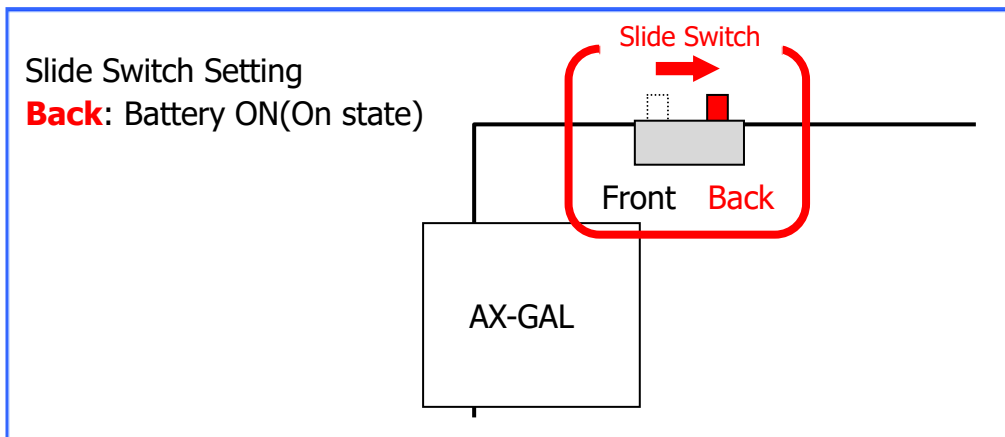
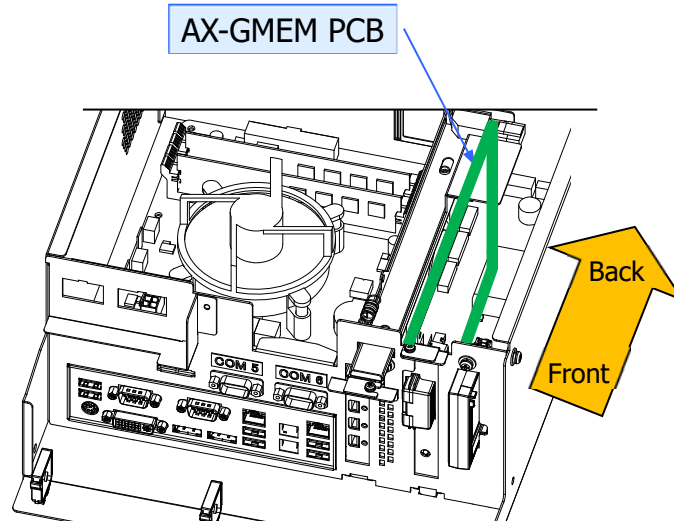
- Location of PCBs -

The PCBs that require setting are shown below inside a frame.



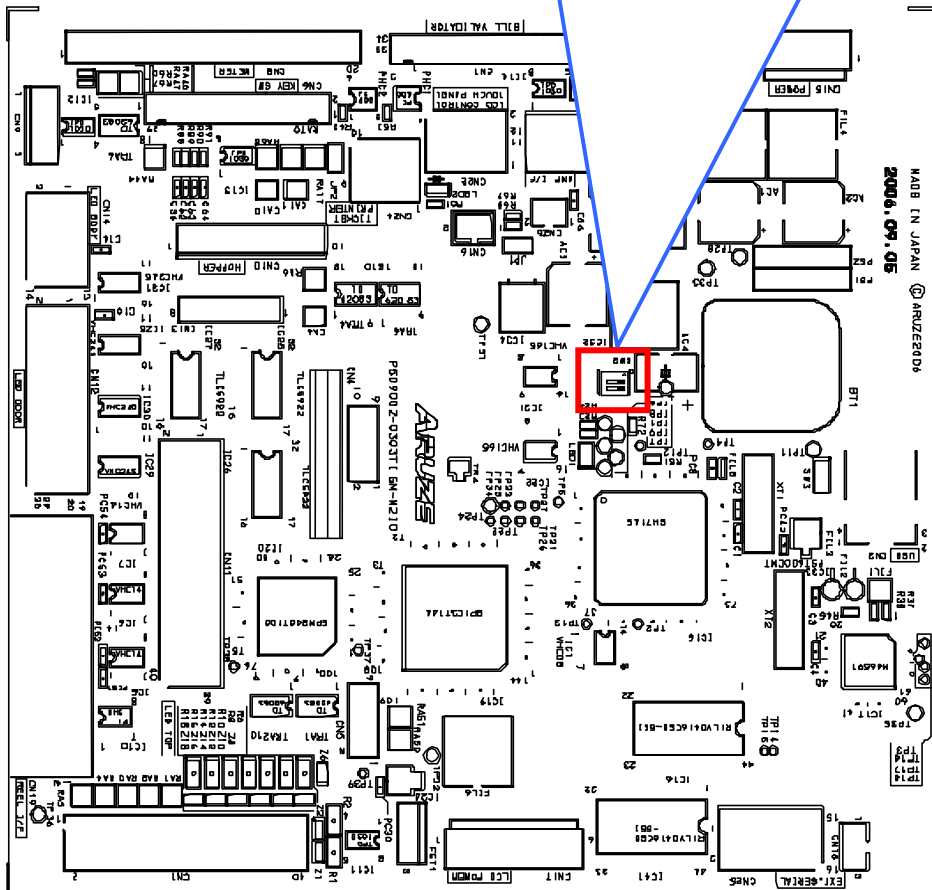
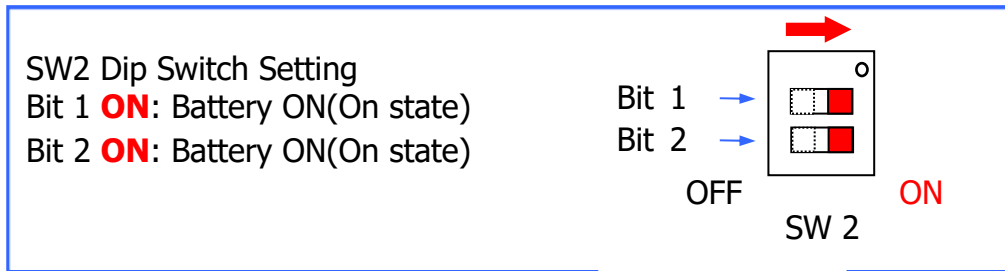
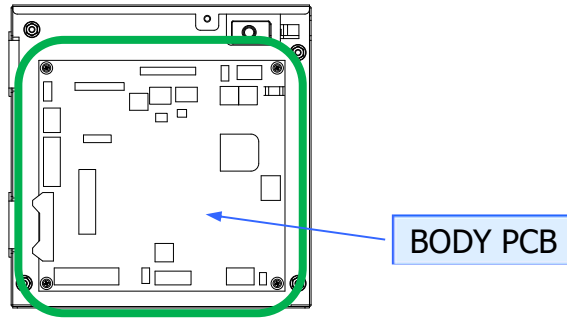
- AX-GMEM PCB -

PCB	Onboard Switch/Jumper	Factory Setting	Setting for Operation	Description
AX-GMEM PCB	S2 (Slide Switch)	Front (Battery OFF)	Back (Battery ON)	The switch for Backup Battery ON-OFF



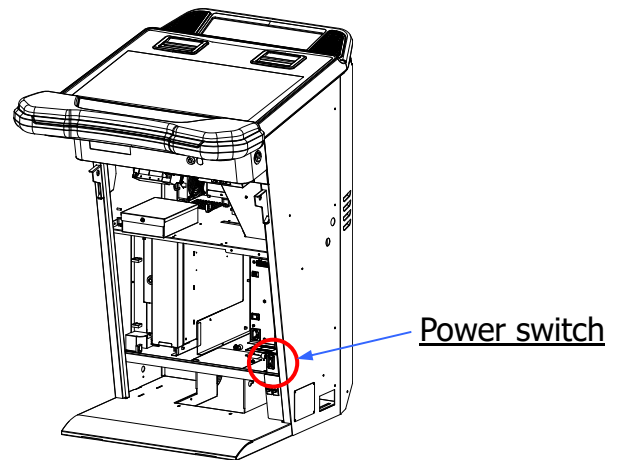
- BODY PCB -

PCB	Onboard Switch/Jumper	Factory Setting	Setting for Operation	Description
BODY PCB	SW2(2 Bit Dip Switch)	All OFF (Invalid)	All ON	The switch for enabling the Backup Battery

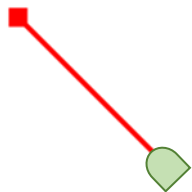


3. 2. 2. 4: Connecting the Stations to the Power Source

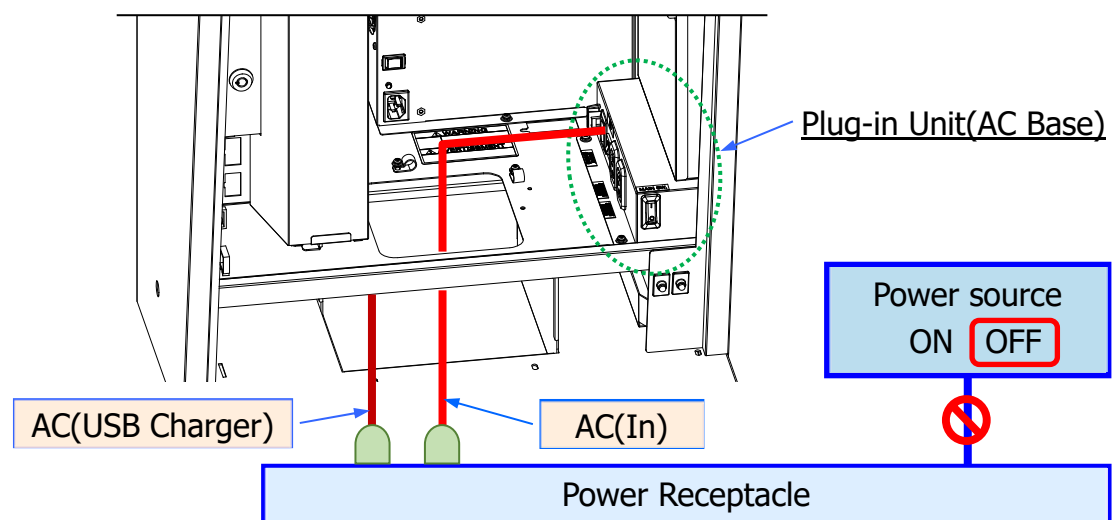
1. Make sure that the Power Switch of each Station is set to OFF.



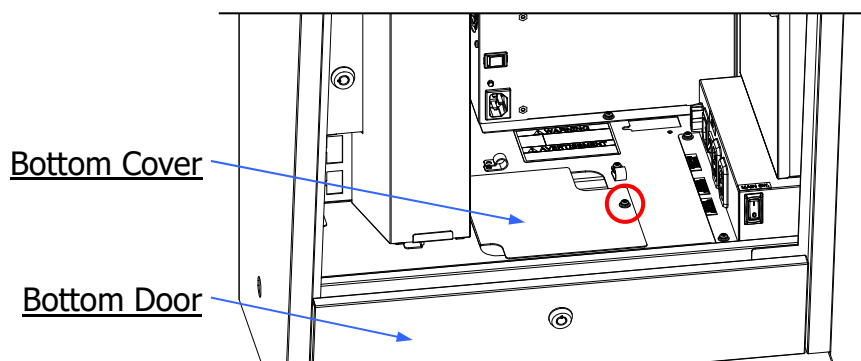
2. Prepare the following Parts.

Parts Name	Qty	Appearance
AC Cable(for Station)	8	

3. Connect the Plug-in Unit (AC Base) and the Power receptacle of each station to the AC Cable. If a USB Charger is connected, when installing each Station plug also the AC (USB Charger). Arrange the cables installed so that they will not be an obstacle to the further procedures.



- Return the Bottom Cover and the Bottom Door of each Station to its previous position.



- This completes the connection to the Power Source of each Station.

3. 2. 3: Checking and Setting

i NOTE: Option-[In case it is planned to extend the number of stations]
Continue the procedure after the installation of all the Extension Stations is complete. ◦

Before turning ON the Center Unit and the Stations, check the following;

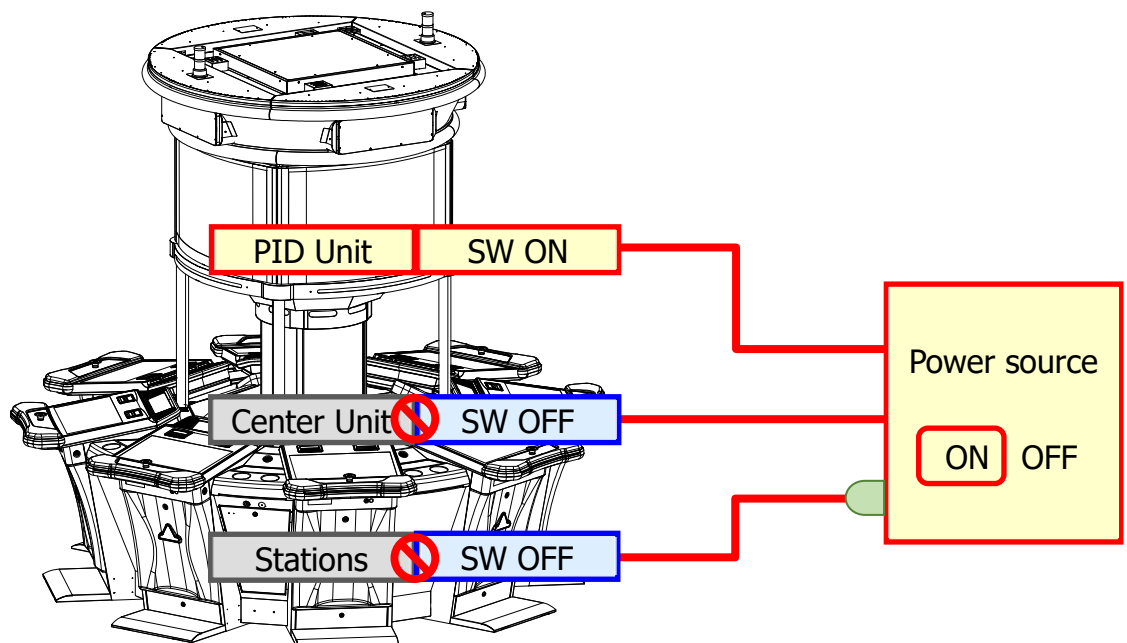
- All the cable connectors are securely seated.
- The machine is properly earthed.

3. 2. 3. 1: Preparation to set the Stations

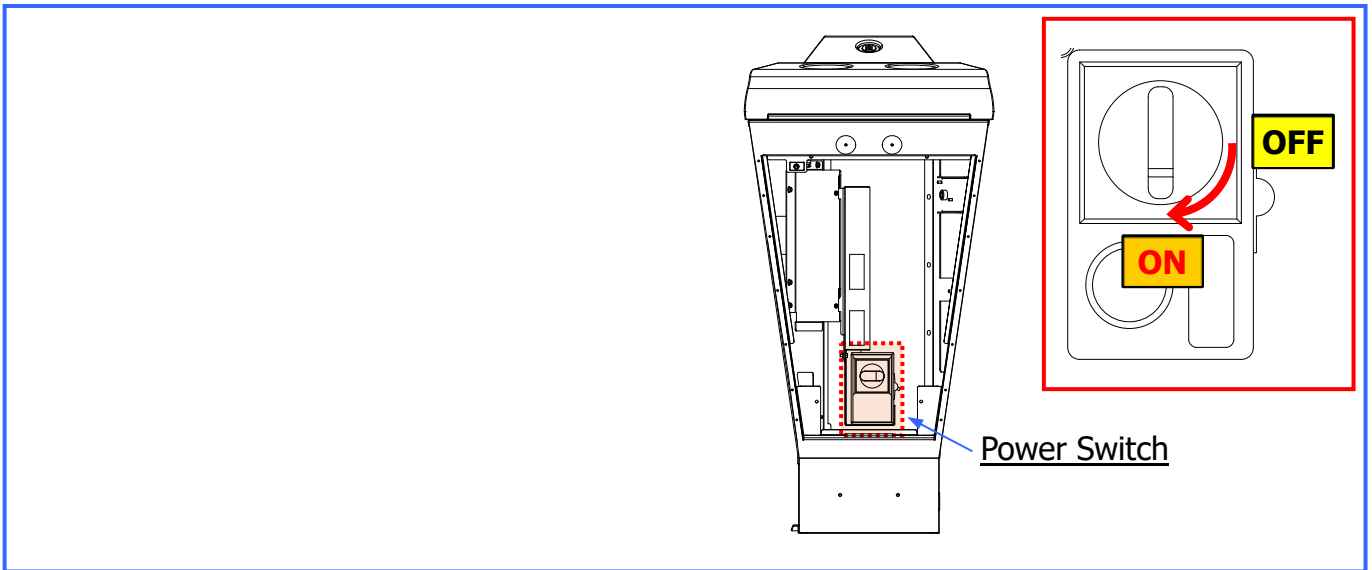
! CAUTION!
Stations power should be OFF at this stage.

i NOTE:
The check for the operation functionality of the Center Unit has already been completed at "**Checking Operation of the Center Unit**", therefore from now it will be performed only a check for the Stations.

1. First turn ON the power source. The devices directly connected to the power source will boot up.

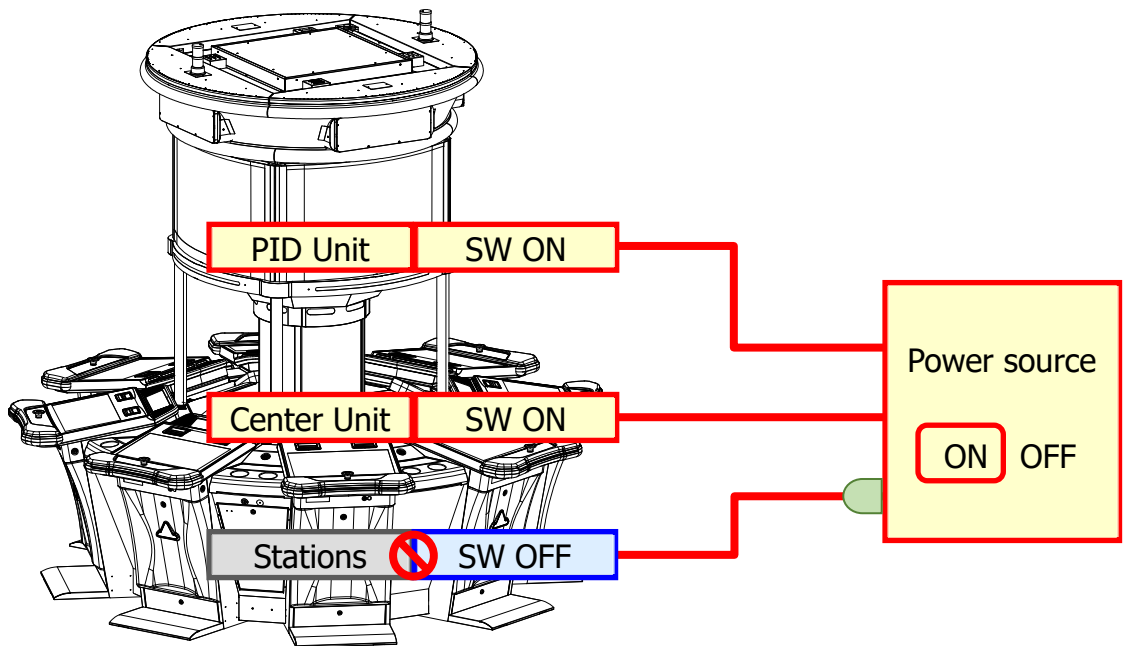


2. Turn to ON the Power Switch of the Center Unit.



CAUTION!

When doing "Power OFF-ON" wait at least 15 seconds before power On.

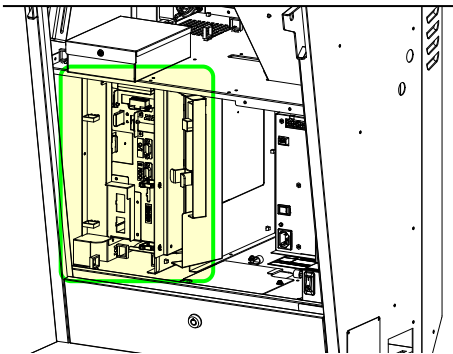
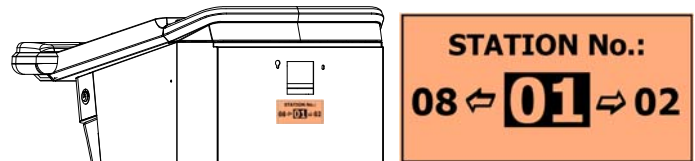


3. 2. 3. 2: Setting operation of Stations

1. Open the Security Cage Front Cover of each of the 8 Stations that are installed around the Center Unit.

CAUTION!

- A Station that is booted up for the first time after it was connected to the Center Unit, first needs the setting of the [STATION ID NUMBER].
- Skip the following procedure up to STEP 7 if the [STATION ID NUMBER] was already set before the shipping of the machine.



2. Turn ON the Power Switch of only 1 Station.

CAUTION!

- Perform the setting one station at time.
- Do not boot on other stations before the [STATION ID NUMBER] is set.
- When doing "Power OFF-ON" wait at least 15 seconds before power On.
- Do not touch the Touch Screen when [NOW CHECKING] is displayed. This may lead to Touch Screen malfunction.

NOTE:

- If it is necessary to perform the RAM Clear (Memory Clear), refer to "**Memory Clear Procedure**" on Chapter 7 of the SERVICE Manual.
- If an error appears during the POWER UP SELF TEST, the activation of the Machine halts. Refer to OPERATION Manual Chapter 8 "**Error Messages**" to clear it.
- When the machine was shipped, the touch Screens were calibrated. However, if needed, calibrate the touch Screens by referring to our Service Manual.

- ◇ Are there any strange sounds or smells coming from the machine?
- ◇ Test the proper functionality of Sensors, RESET/AUDIT key switches etc.

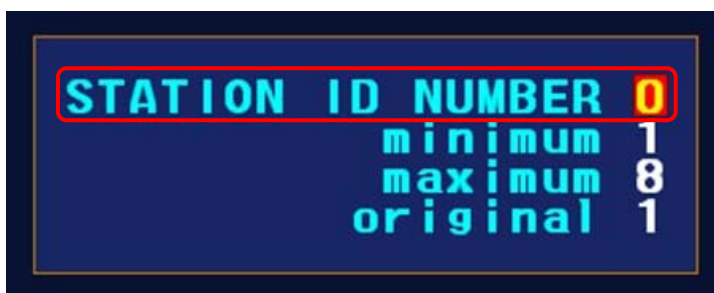
- To call the AUDIT mode, turn the key to the AUDIT position, and return it to the neutral position.



- Refer to "**Version Information**" at Chapter 7 of the OPERATION Manual, to check that the Software version is the same as the Software Version approved for installation.
- Refer to "STATION ID NUMBER" on "**Important Settings / Basic Settings**" at Chapter 5 of the SERVICE MANUAL, to set the [STATION ID NUMBER].

i NOTE:

Check the [STATION ID NUMBER] at [\[Station Layout Chart\]](#) (Refer to 3.2.2.2).

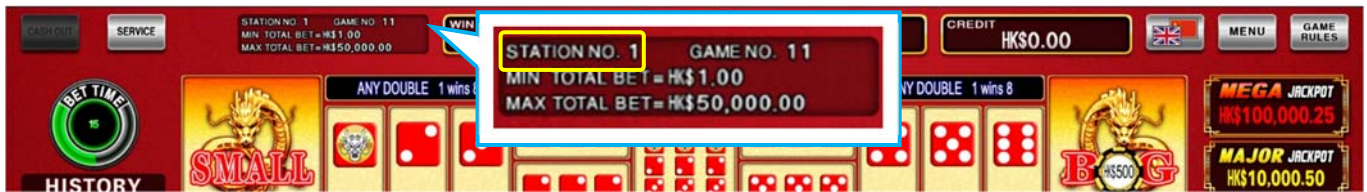


- When settings are complete, press [Exit] or [RETURN TO...] on the menu screen.
When the following message appears: [Touch [YES] to SAVE the Update. to CANCEL the Update, touch [NO].], press [YES].
When the [Turn OFF and ON the machine to make the Update effective.] message appears, turn OFF the machine.

i NOTE:

After the Power OFF (Save the settings) of the Station, it is possible to Power ON the following one. Repeat the same procedure for all the stations, while paying attention not to set twice the same number.

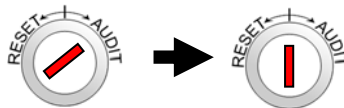
7. Turn ON the Power Switch of the Station, check that the [STATION NO.] at the top of the screen displays the same value set as [STATION ID NUMBER].



i NOTE:

- If it is necessary to perform the RAM Clear (Memory Clear), refer to **"Memory Clear Procedure"** on Chapter 7 of the SERVICE Manual.
- If an error appears during the POWER UP SELF TEST, the activation of the Machine halts. Refer to OPERATION Manual Chapter 8 **"Error Messages"** to clear it.
- When the machine was shipped, the touch Screens were calibrated. However, if needed, calibrate the touch Screens by referring to our Service Manual.

- ◇ Are there any strange sounds or smells coming from the machine?
 - ◇ Test the proper functionality of Sensors, RESET/AUDIT key switches etc.
8. To call the AUDIT mode, turn the key to the AUDIT position, and return it to the neutral position.



9. Refer to **"Version Information"** at Chapter 7 of the OPERATION Manual, to check that the Software version is the same as the Software Version approved for installation.
10. Refer to **"Settings"** on Chapter 5 of the SERVICE Manual to configure the necessary settings.
11. When settings are complete, press [Exit] or [RETURN TO...] on the menu screen. When the following message appears: [Touch [YES] to SAVE the Update. to CANCEL the Update, touch [NO].], press [YES].
When the [Turn OFF and ON the machine to make the Update effective.] message appears, turn OFF the machine.
12. Close the Security Cage Front Cover and turn ON again the Power Switch of the Station.

! CAUTION!

When doing "Power OFF-ON" wait at least 15 seconds before power On.

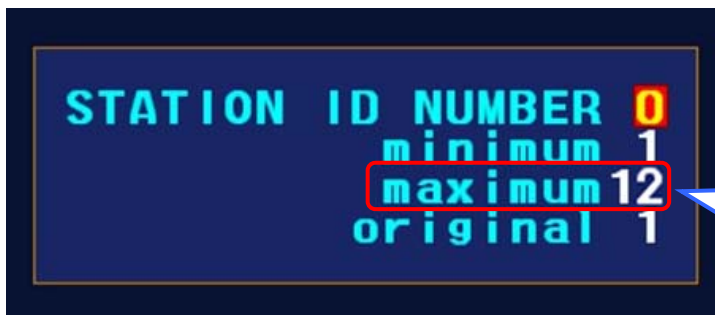
13. Refer to **"Output Test"** at Chapter 5 of the SERVICE Manual, to check if the illuminations are lit correctly.
14. Exit the AUDIT and close the Front Door. Press the GAME RULES button on the Station several times, and check if the BGM plays correctly.

i NOTE: Option-[In case it is planned to extend the number of stations]

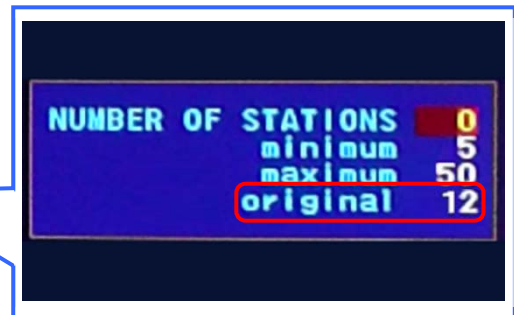
Set also the [STATION ID NUMBER] of the additional Stations by following the same procedure and paying attention not to repeat the same number.

If the [maximum] is different from the total number of Stations, including the Expansion Stations, set again [NUMBER OF STATIONS] on the Center Unit. **(Refer to 3.2.1.14)**

Station AUDIT



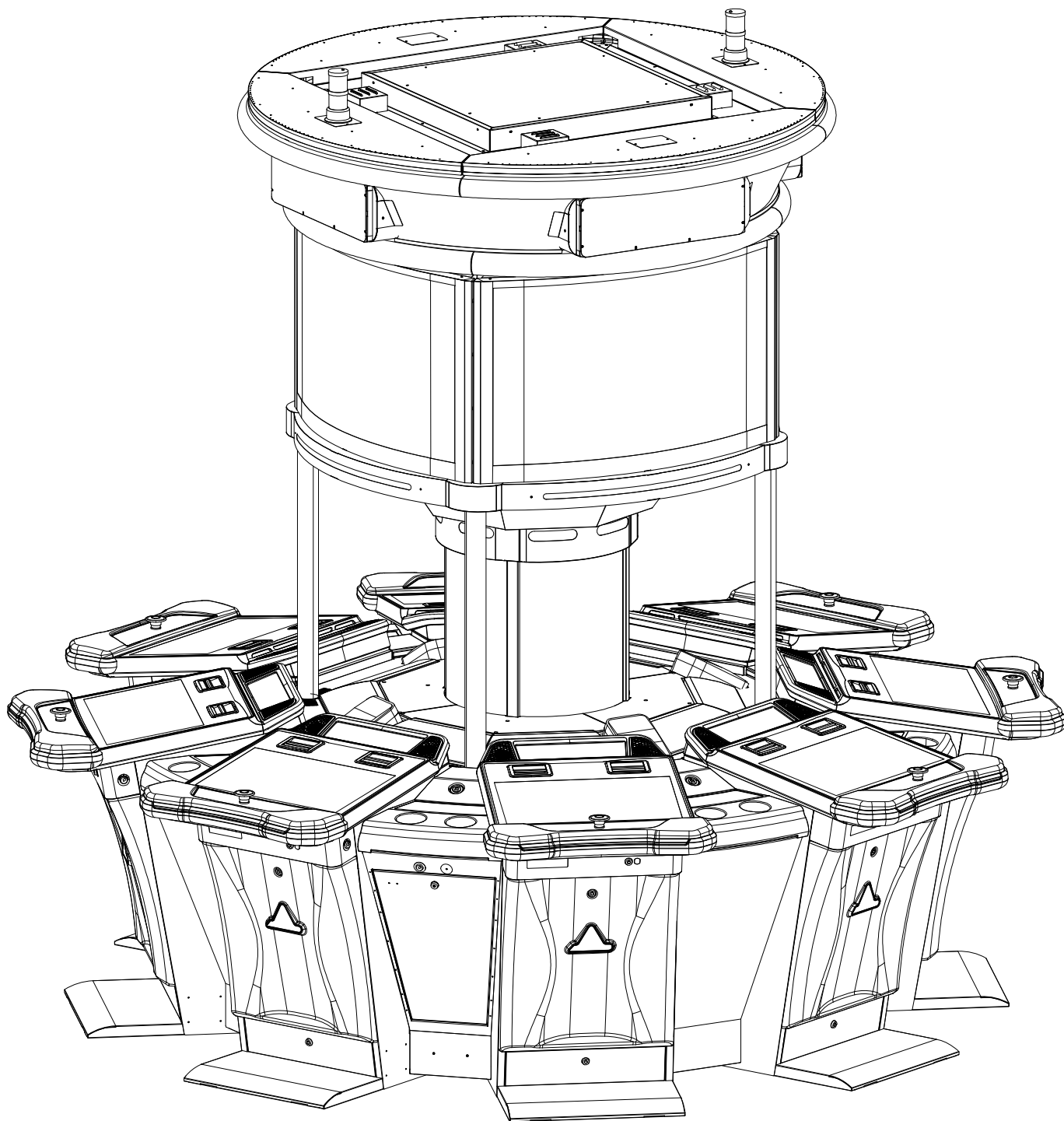
Center Unit AUDIT



3. 2. 3. 3: Verifying Operation of Whole Machine

1. Verify on each Station that BILLS(NOTES)/Tickets are correctly counted by inserting BILLS(NOTES)/Tickets.
2. Play on each Station 10 games on the installed stations to check if the game normally proceeds.

Appearance of the completed machine.





Chapter 4

Machine Specifications

4. 1: Cabinet Code(MODEL#)

Center Unit: PTWDG01
Station: AXPS01

4. 2: Overall Dimension

	Width	Height	Depth
Whole Machine Including [High PID Unit] Including 8pcs Stations layout Excluding Tower Light	3050 mm (120.08")	2725 mm (107.28")	3050 mm (120.08")
Whole Machine Including [Low PID Unit] Including 8pcs Stations layout Excluding Tower Light	3050 mm (120.08")	2080 mm (81.89")	3050 mm (120.08")
Station : Excluding Back LED Unit : Including Back LED Unit	670 mm (26.38")	972 mm (38.27")	810 mm (31.89") 868 mm (31.17")

4. 3: Weight

Center Unit Including [High PID Unit]	598 kg(1318.4 lbs)
Center Unit Including [Low PID Unit]	286 kg(630.5 lbs)
Station	90 x8 kg(1587.3 lbs)
Pow Switch and HUB Spacer Unit	12 kg(26.5 lbs)
Control Spacer Unit	20 kg(44.1 lbs)
Spacer Unit	10 x6 kg(132.3 lbs)

4. 4: Electrical Specifications

Center Unit: PTWDG01

Power Requirements

Input Voltage	100 - 120VAC	220 - 240VAC
Input Frequency	50 / 60Hz	50 / 60Hz
Mains Input Current		
EGM Maximum (* Including Service Outlet)	5.8 A	3.5 A
EGM Typical	4.8 A	2.5 A
Power Consumption at Nominal Voltage		
EGM Typical	576 W	576 W
Typical Heat Load	1965 BTU/hr	1965 BTU/hr
Maximum Load Current		
Service Outlet	N/A	N/A
Power Consumption at Nominal Voltage		
EGM Maximum (excluding Service Outlet)	Maximum allowed by PSU	Maximum allowed by PSU

Station: AXPS01

Power Requirements

Input Voltage	100 - 120VAC	220 - 240VAC
Input Frequency	50 / 60Hz	50 / 60Hz
Mains Input Current		
EGM Maximum (* Including Service Outlet)	4.7 A	3.7 A
EGM Typical	1.0 A	0.6 A
Power Consumption at Nominal Voltage		
EGM Typical	119 W	118 W
Typical Heat Load	404 BTU/hr	401 BTU/hr
Maximum Load Current		
Service Outlet	1A x 2	1A x 2
Power Consumption at Nominal Voltage		
EGM Maximum (excluding Service Outlet)	Maximum allowed by PSU	Maximum allowed by PSU

4. 5: Environment

Ambient temperature	0 through 40 degrees C
Ambient humidity	5 through 95% Free from dew condensation

4. 6: BILLS Capacity

Maker : Model	Capacity
JCM : UBA / i VIZION / i PRO	500 – 900 BILLS
Cash Code : CASH CODE ONE	600 – 900 BILLS
MEI : CASHFLOW	600 – 1200 BILLS





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