LAMP®
Mounting/Operation Instruction Manual for RB-600 Hardware for Rotating Cabinet

Thank you very much for purchasing RB-600 Hardware (hereinafter, "the Product") for Rotating Cabinet.
The Product allows for a 180 degree rotation of the Cabinet for reversible use.
There are three (3) types of installation. (Wall-Floor Fixing, Ceiling/Wall-Floor Fixing, and Inside Cabinet Installation)

PLEASE READ CAREFULLY

⚠ WARNING

Using this item without due caution may lead to injuries or malfunction

· The mounting work of the Product should be performed by a suitably experienced person. Incorrect mounting may lead to injuries or malfunction, etc.
· Do not use the Product other than for its original purpose, and do not disassemble, modify or use on doors other than as specified in this document. We accept no responsibility for accidents or injuries caused by using this item on doors other than those specified.
· Mount the Product on a door frame, door, and floor that are durable to the shock of the door opening/closing and have comparable strength to the door. If the Product is mounted on weak surfaces, door movement may be reduced and result in accidents due to the arm disengaging.
· Leaning or sitting on the cabinet may cause Product defects, accidents or injuries.

⚠ Caution

Incorrect handling without following this symbol may lead to injuries or damage. This section explains dangers, which may lead personal injuries and/or property damages.

· Follow the specifications, assigned dimensions and vertical/horizontal requirements for each part. Warping or twisting of the frame or door may cause failure and affect the performance.
· Use a manual screwdriver when mounting each part. Using an electric driver or impact driver may affect the performance of parts such as by over-tightening the screw and damaging the Product.
· The Product is for indoor use. Do not use it outdoors or in a location where water is splashed.
· Do not use the article in a high temperature, high humidity environment. (Operating Temperature = 0°C to 40°C, Humidity = 90% or less)
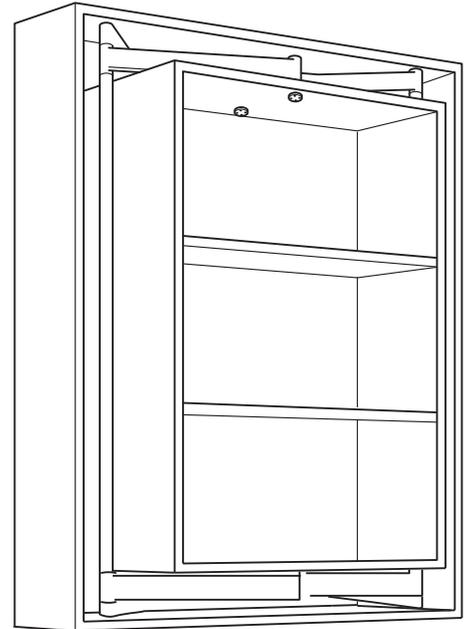
■ **About this Document**
· Before mounting, read the Instruction Manual (hereinafter, "the document") carefully.
· The document describes how to mount RB-600 Hardware for Rotating Cabinet at one location per one site, for the safest and most effective mounting.
· As it is assumed that the person who performs mounting has specialist know how, the document does not necessarily restrict the mounting order and method. Mounting may be performed based on your own technical knowledge and experience after carefully reading the document.
· Give the document to the user after completion of the mounting work. Ask the user to keep the document in a convenient location.

Exemptions
The site situation and mounting work involve many factors beyond the company's control. For this reason, the company is unable to take responsibility for any loss, damage, or expense caused by such factors.

■ **Dimensions on Illustration Drawing**
The dimensions listed in the document do not take into account accidental error in fabrication and assembly, or deformation of the material itself. Take these factors into account when working and fabricating the material such as cutting, etc.

RB-600ST (Wall-Floor Fixing)

■ Installation Dimensions

200
50
50
302
152
25
50
680, max
750
Hole, 4 x 15φ
Mounting Hole: 4 x 6.2φ

Hole Dia.: 15φ
20
⑥ ④

Details, Section-A

① ②
20
40
Section-A
Section-B
⑤
20
③
⑨
FL

105
85
Cabinet Height: H1
Interlocking Shaft Length = Cabinet H1
⑩
Cabinet Depth: 300
85
220
26~32
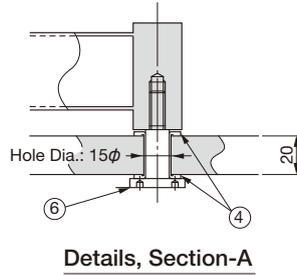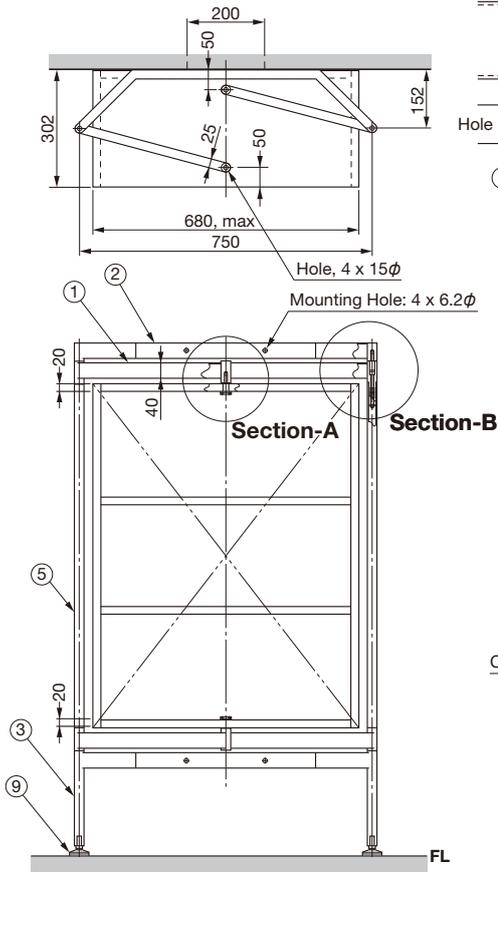
Design of RB-600ST (Wall-Floor Fixing)

- Fabricate the top board and the bottom board of the Cabinet with a solid core structure and secure sufficient strength. Board thickness is limited to 20 mm.
- Finish surfaces carefully since all six surfaces of the Cabinet will be visible.
- Check the strength of the wall foundations for secure fixing.

Cabinet Width: 680 mm or less
Cabinet Height: 1,925 mm or less
Cabinet Depth: 300 mm
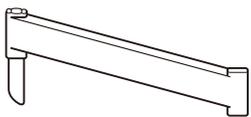Withstand Load (Cabinet included): Approximately 740N (75.5 Kg)
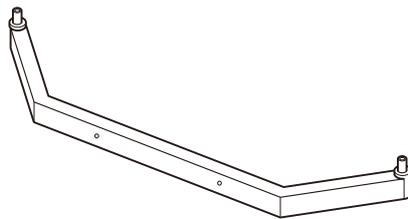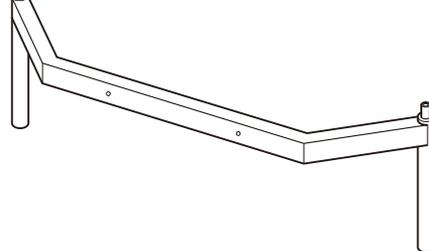
Details, Section-B

④
⑦
⑧
t=3
φ25
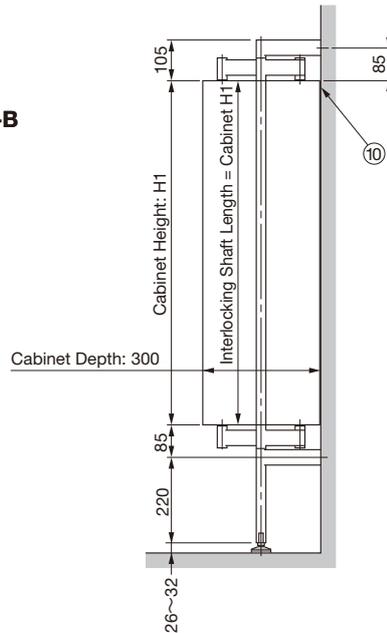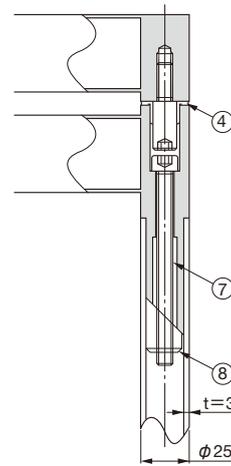
■ Component

① Interlocking Arm: 4 pc
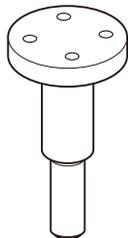② Supporting Arm-A: 1 pc
③ Supporting Arm-B: 1 pc
④ Bush: 12 pc

⑤ Interlocking Shaft: 2 pc
⑥ Wheel Pin: 4 pc
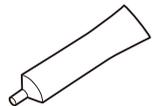⑦ Interlocking Shaft Fixing Bolt: 4 pc
⑧ Interlocking Shaft Fixing Nut: 4 pc
⑨ Adjuster: 2 pc
⑩ Bumper: 2 pc
⑪ Grease: 1 tube

■ Articles Provided by Customer (Not included)

⑫ Point-Fixing Tool, Z059
⑬ Hexagonal Wrench, Nominal Dia. = 6
⑭ Fixing Screw
Cross Recessed Countersunk Tapping Screw Nominal 4 x 70: 4 pc
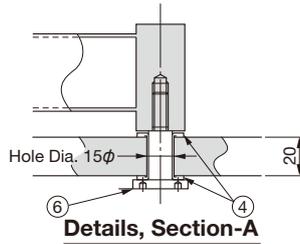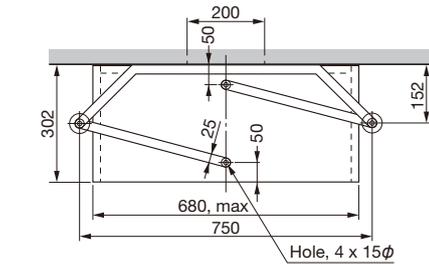Setup Washer SETUP-SUS: 4 pc
Cap for Setup Washer, CS-492: 4 pc

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RB-600CH (Ceiling/Wall-Floor Fixing)

■ Installation Dimensions

200
50
302
152
25
50
680, max
750
Hole, 4 x 15φ

Hole Dia. 15φ
20
⑥ ④

Details, Section-A

①
③
Mounting Hole: 4 x 6.2φ
20
40
Section-A   **Section-B**

⑤

20

⑨
③
FL

26~32
220
85
CH (2600, max)
Cabinet Height: H1 (CH-675)
Interlocked Shaft Length = Cabinet H1
Cabinet Depth: 300
85
220
26~32

Design of RB-600CH (Ceiling/Wall Fixing)

- Fabricate the top board and the bottom board of the Cabinet with a solid core and secure sufficient strength. The top board and bottom board thickness is limited to 20 mm.
- Finish surfaces carefully since all six surfaces of the Cabinet will be visible.
- Check the strength of the wall foundations for secure fixing.
- The Cabinet size is decided by the dimension between the ceiling and floor. Please measure carefully.

Cabinet Width: 680 mm or less
Cabinet Height: 1,925 mm or less
Cabinet Depth: 300 mm
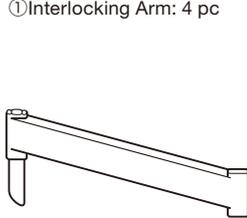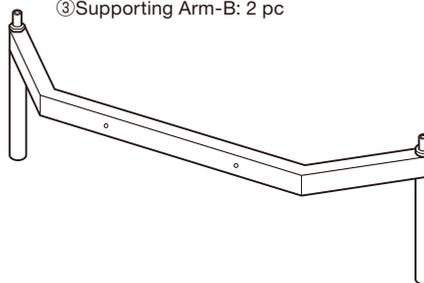Withstand Load (Cabinet included): Approximately 740 N (75.5 kg)
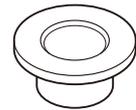
Details, Section-B

④
⑦
⑧
t=3
φ25
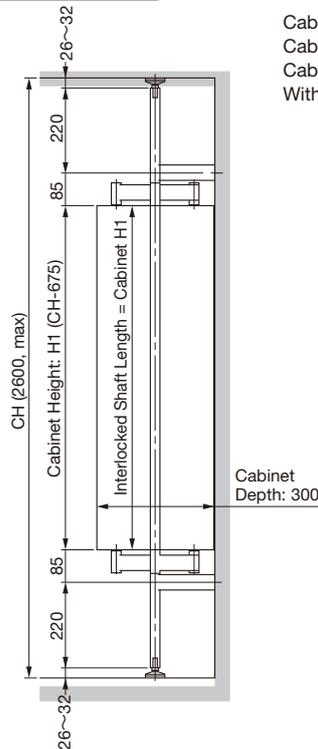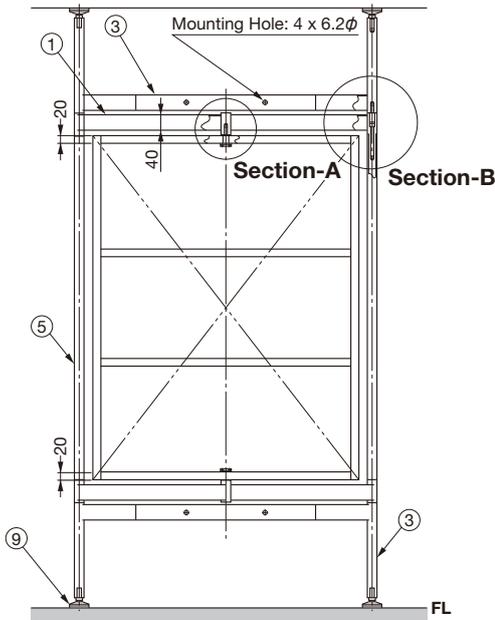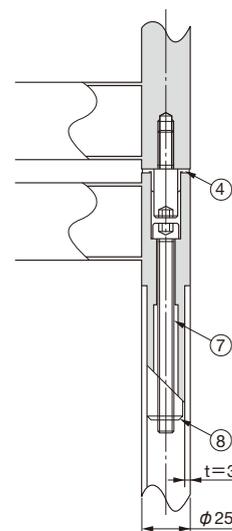
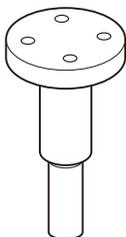## ■ Component

①Interlocking Arm: 4 pc

③Supporting Arm-B: 2 pc

④Bush: 12 pc

⑤Interlocking Shaft: 2 pcs

⑥Wheel Pin: 4 pc

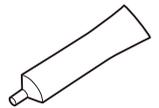⑦Interlocking Shaft Fixing Bolt: 4 pc

⑧Interlocking Shaft Fixing Nut: 4 pc

⑨Adjuster: 4 pc

⑩Bumper: 2 pc

⑪Grease: 1 tube

■ Articles prepared by customer (Not included)

⑫Point-Fixing Tool, Z059

⑬Hexagonal Wrench, Nominal Dia. = 6

⑭Fixing Screw

Cross Recessed Countersunk Tapping Screw Nominal 4 x 70: 4 pc
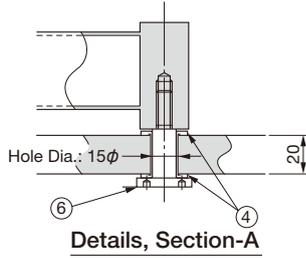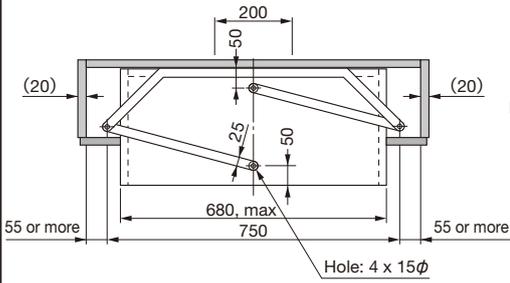
Setup Washer SETUP-SUS: 4 pc

Cap for Setup Washer, CS-492: 4 pc

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RB-600NC (Inside Cabinet Fixing)

■ Installation Dimensions

200
50
(20)
(20)
25
50
55 or more
680, max
750
55 or more
Hole: 4 x 15φ

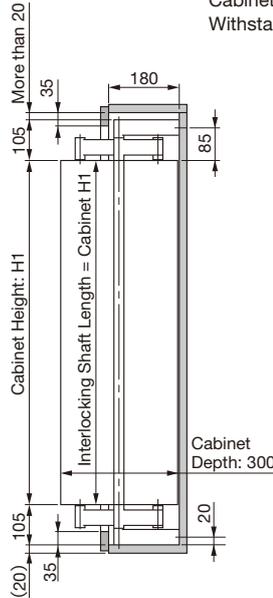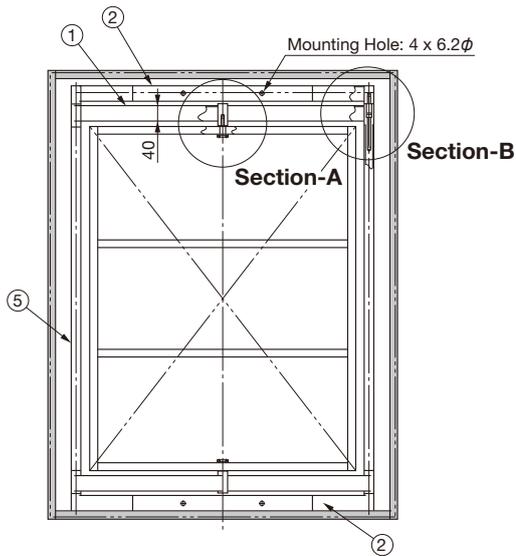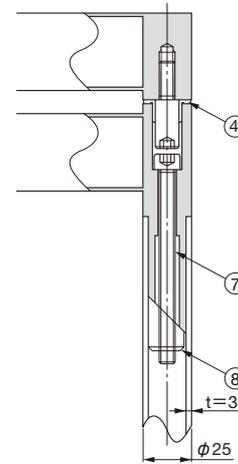Hole Dia.: 15φ
20
⑥
④
Details, Section-A

Design of RB-600NC (In-Cabinet Installation)

● Fabricate the top board and the bottom board inside the Cabinet with a solid core structure and secure sufficient strength. Thickness of top board and bottom board is limited to 20 mm.
● Finish surfaces carefully since all six surfaces of the Cabinet will be visible.
● Check the strength of the walls, etc., for secure fixing.
● The face panel mounted on the outside Cabinet should be mounted from inside by using balk, etc., so that it can be removed easily.

Cabinet Width: 680 mm or less
Cabinet Height: 1,925 mm or less
Cabinet Depth: 300 mm
Withstand Load (cabinet included): Approximately 740N (75.5 Kg)

①②
Mounting Hole: 4 x 6.2φ
40
Section-B
Section-A
⑤
②

More than 20
35
180
105
85
Cabinet Height: H1
Interlocking Shaft Length = Cabinet H1
Cabinet Depth: 300
105
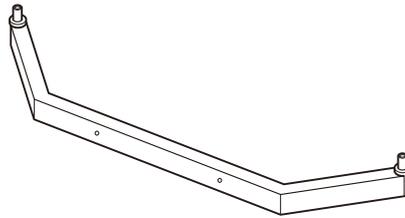20
35
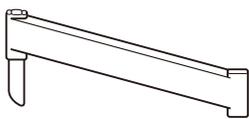(20)

Details, Section-B
④
⑦
⑧
t=3
φ25

■ Component

① Interlocking Arm: 4 pc   ② Supporting Arm-A: 2 pc   ④ Bush: 12 pc

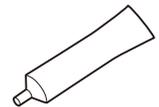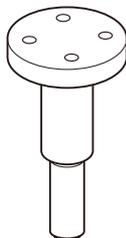⑤ Interlocking Shaft: 2 pc   ⑥ Wheel Pin: 4 pc   ⑦ Interlocking Shaft Fixing Bolt: 4 pc   ⑧ Interlocking Shaft Fixing Nut: 4 pc   ⑩ Bumper: 2 pcs   ⑪ Grease: 1 tube

■ Articles Prepared by Customer (Not included)

⑫ Point-Fixing Tool, Z059   ⑬ Hexagonal Wrench, Nominal Dia. = 6   ⑭ Fixing Screw

Cross Recessed Countersunk Tapping Screw Nominal 4 x 70: 4 pc   Setup Washer SETUP-SUS: 4 pc   CAP CS-492 for Setup Washer: 4 pc
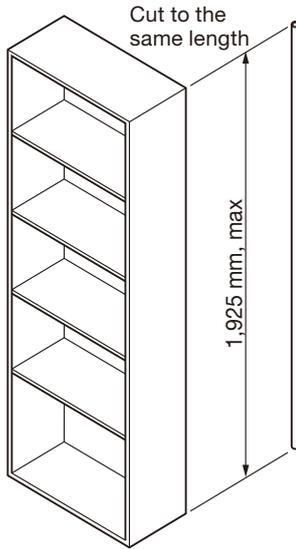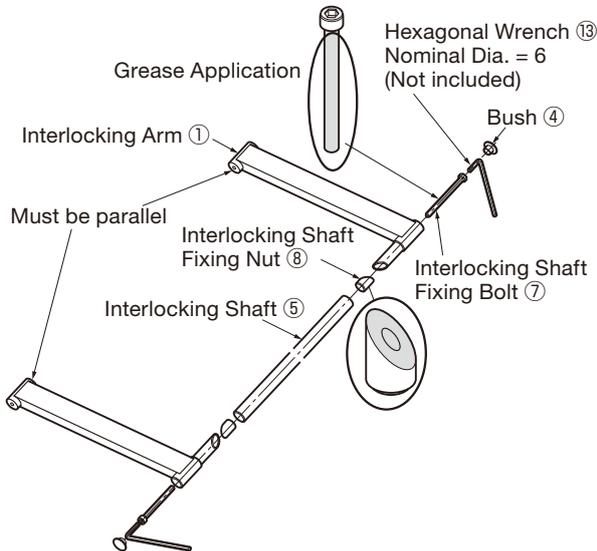
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Working Steps

Common among 3 Types

1 Cutting Interlocking Shaft ⑤

Cut the Interlocking Shaft ⑤ at the same length as the Cabinet height.
Clear away the burr completely.


Cut to the same length

1,925 mm, max

2 Assembling Interlocking Arm

1. Apply grease ⑪ to the thread of the Interlocking Shaft Fixing Bolt ⑦.
2. Apply grease ⑪ to knurled parts and the slant quill part of Interlocking Shaft Fixing Nut ⑧.
3. Securely fix the Interlocking Arm with a hexagonal wrench ⑬ after trial assembly by inserting the Interlocking Shaft ⑤.
   Work on a flat worktable, etc., and confirm the upper and lower Interlocking Arms are in parallel.
   Insert Bushes ④ onto the tip of the upper and lower Interlocking Arms.

Grease Application

Hexagonal Wrench ⑬
Nominal Dia. = 6
(Not included)

Bush ④

Interlocking Arm ①

Must be parallel

Interlocking Shaft Fixing Nut ⑧

Interlocking Shaft Fixing Bolt ⑦

Interlocking Shaft ⑤

3 Mounting of Bush ④

1. Make holes on the top and bottom boards of the Cabinet at the positions shown below:
2. Insert bushes ④ from both outside and inside the hole-part of the Rotating Cabinet in advance.

Bush ④

50 / 300 / 50

Hole: 4 x 15φ
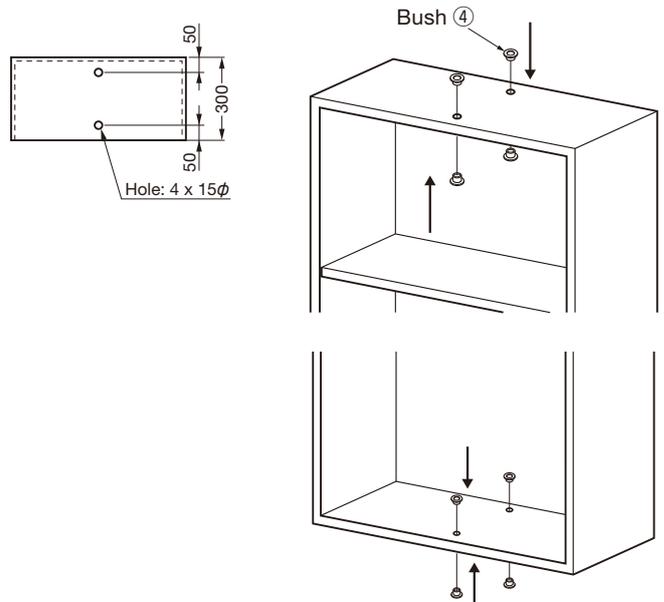
4 Preparation for Cabinet Mounting

Apply grease ⑪ to the thread part and shaft part of Wheel Pin ⑥.

Grease Application
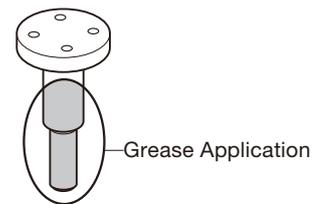
Wall-Fixing , Wall/Floor-Fixing

5 Assembling Supporting Arm-B

Mount Adjuster ⑨ at the tip of Supporting Arm-B ③.

Supporting Arm ③

Adjuster ⑨

Wall-Floor Fixing

6 | Fixing of Supporting Arm-B ③

Install Supporting Arm-B ③ at the assigned location where the Rotating Cabinet is mounted. Adjust the horizontal level with an adjuster and mount the Arm with Fixing Screws ⑭.
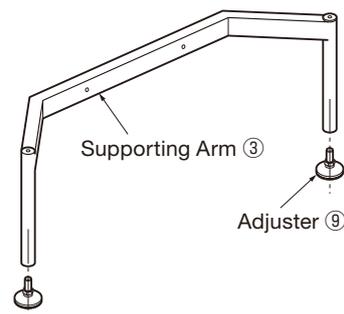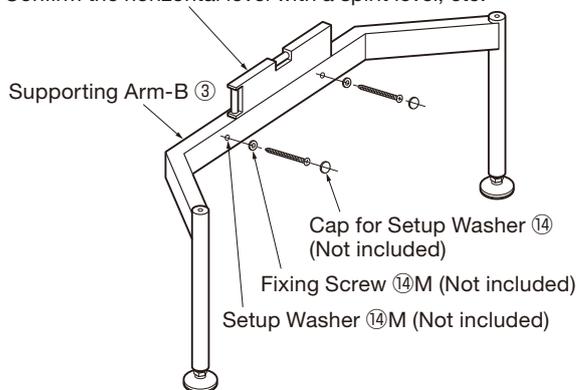
Confirm the horizontal level with a spirit level, etc.

Supporting Arm-B ③

Cap for Setup Washer ⑭
(Not included)

Fixing Screw ⑭M (Not included)

Setup Washer ⑭M (Not included)

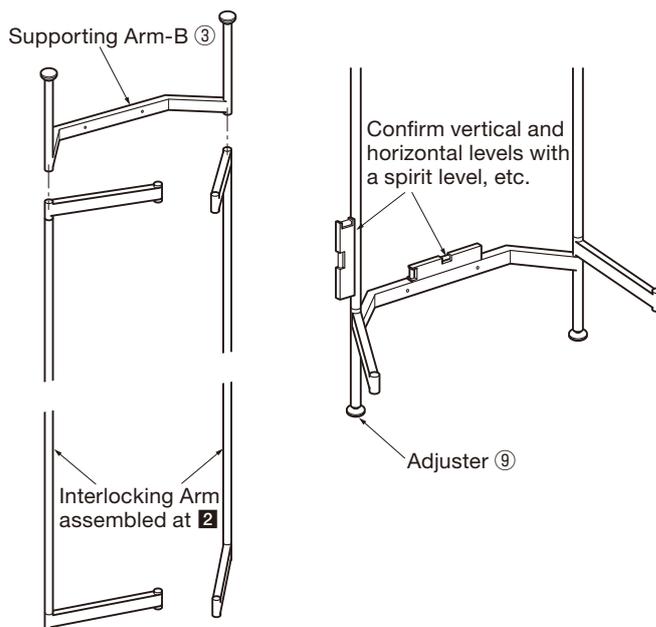### 7 | Assembling of Interlocking Arm ① and Fixing of Supporting Arm-A ②

Insert Interlocking Arm assembled at **2** into Supporting Arm-B ③ fixed on the wall.
Insert Supporting Arm-A ② into Interlocking Arm.
Confirm the Interlocking Arm ① is lined up with the vertical line and fix Supporting Arm-A ② with Fixing Screws ⑭.

Supporting Arm-A ②

Fixing Screw ⑭
(Not included)

Interlocking Arm assembled at **2**.

Confirm the vertical level with a spirit level, etc.
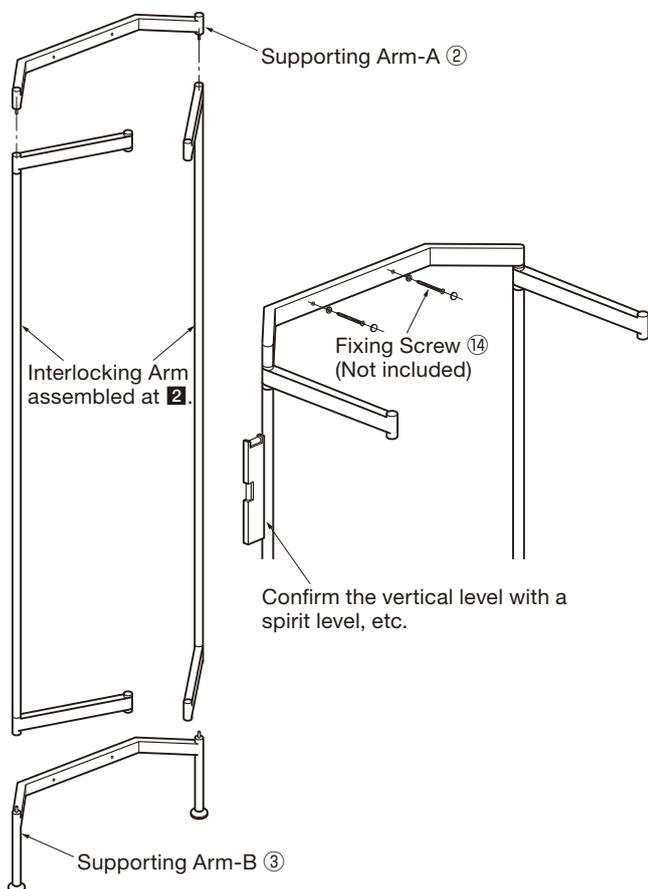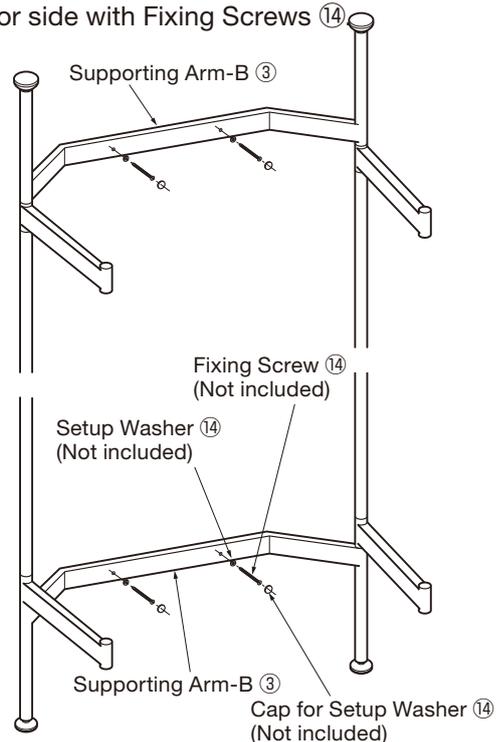
Supporting Arm-B ③

Ceiling/Wall-Floor Fixing

8 | Interlocking Arm ① Assembling and trial fixing of Supporting Arm-B ③

1. Insert Interlocking Arms assembled at **2** between Supporting Arms-B ③ at the ceiling side and floor side, and put them up on the wall surface installation location as they are.
2. Adjust the adjuster so that the horizontal level of the Supporting Arm-B ③ is lined up.
3. Adjust the adjuster equipped on the Supporting Arm-B ③ at the ceiling side so that the Supporting Arms stick out a little and do not drift. Confirm that the vertical level of the Interlocking Shaft is exactly lined up.

Supporting Arm-B ③

Confirm vertical and horizontal levels with a spirit level, etc.

Interlocking Arm assembled at **2**

Adjuster ⑨

9 | Fixing of Supporting Arm-B ③

Mount Supporting Arms-B ③ at the ceiling side and floor side with Fixing Screws ⑭

Supporting Arm-B ③

Fixing Screw ⑭
(Not included)

Setup Washer ⑭
(Not included)

Supporting Arm-B ③

Cap for Setup Washer ⑭
(Not included)

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10 Mounting Cabinet

1. Put the Rotating Cabinet between interlocking arms assembled at **2** and screw-in the Wheel Pins ⑥.
2. Use Point-Fix Tool, Z059 ⑫, when tightening Wheel Pin ⑥.
3. Rotation will not be in line with you depending on whether the left or right Interlocking Arm comes close to you.
   If the observer's right side of the Interlocking Arm comes close to you, it rotates CCW as viewed from above when the Cabinet is pulled out.

Wheel Pin ⑥   Point-Fixing Tool, Z059 ⑫ (Not included)
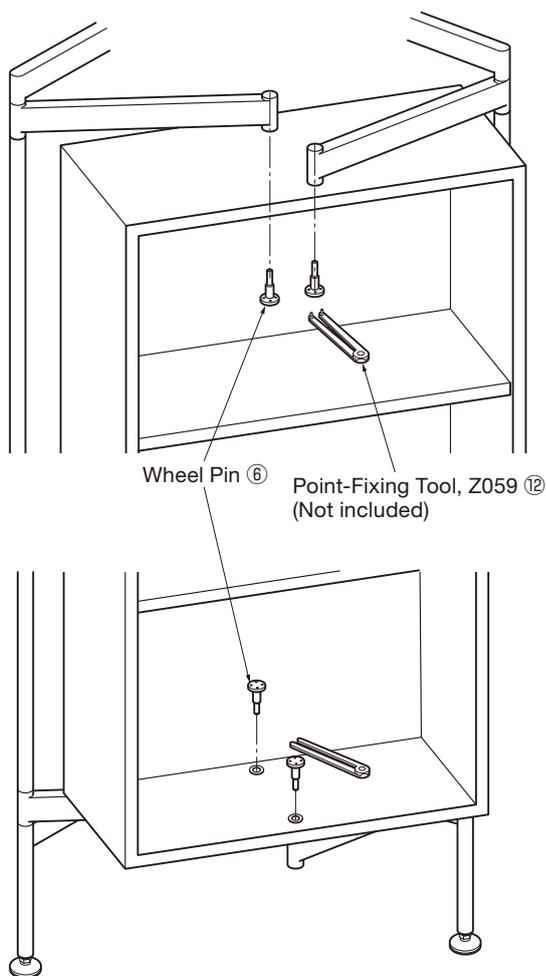
11 Mounting of Bumper ⑩

Paste up Bumper ⑩ on the wall surface where the lumber end surface of the top board and bottom board of the cabinet meet.

Bumper ⑩

Inside Cabinet Fixing

12 Trial Fixing of Interlocking Arm and Supporting Arm-A ②

Insert Interlocking Arms assembled at **2** between Supporting Arm-A ② ceiling side and floor side, and put them up at the center of the outer cabinet inside as they are.
Confirm that the vertical level of the Interlocking Shaft is exactly lined up.

Supporting Arm-A ②

Supporting Arm-A ②

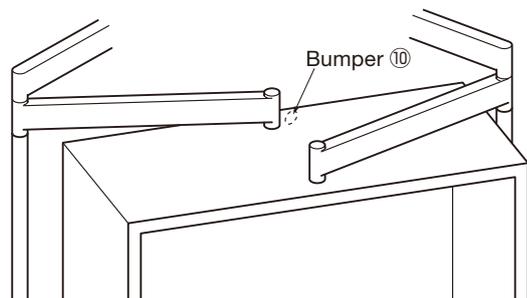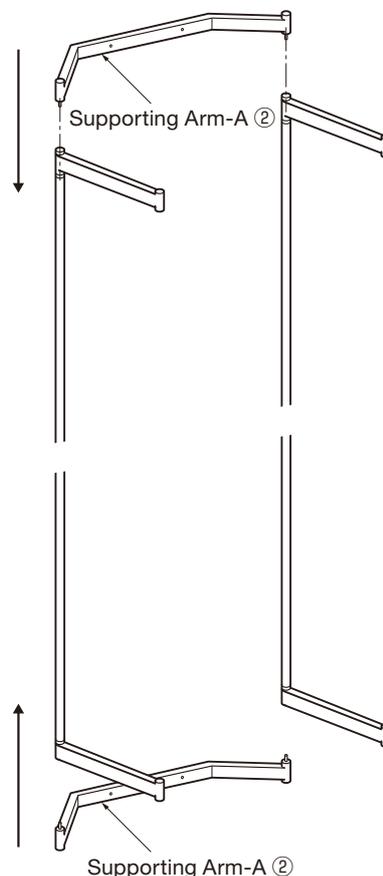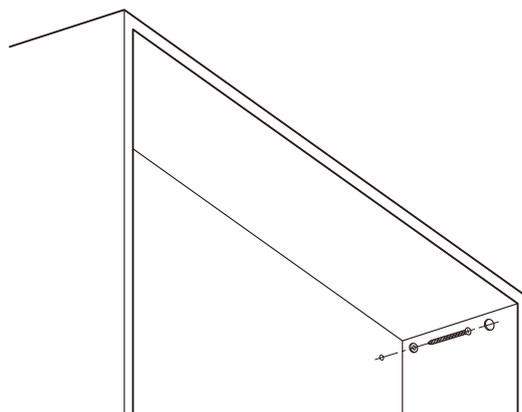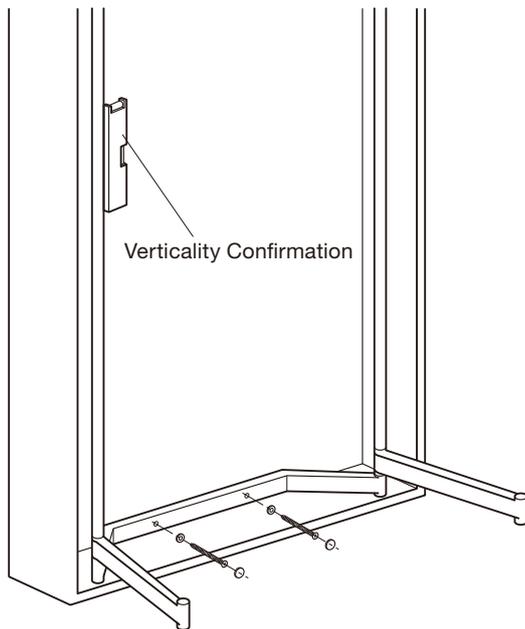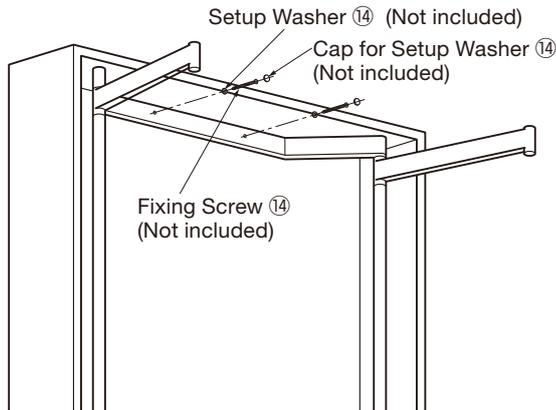## 13 Fixing of Outer Cabinet on Wall Surface

Confirm the vertical and horizontal levels at the assigned location where the Cabinet is fixed, and fix at four places near the four corners inside the Cabinet. Fix the Cabinet using suitable screws and anchors depending on the structure of the wall.

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14 Fixing of Supporting Arm-A ②

Mount Supporting Arms-A ② at the ceiling side and floor side with fixing screws ⑭.

⚠ Mount the arms at the center in the left-and-right direction, inside the cabinet.

Setup Washer ⑭ (Not included)
Cap for Setup Washer ⑭ (Not included)
Fixing Screw ⑭ (Not included)
Verticality Confirmation
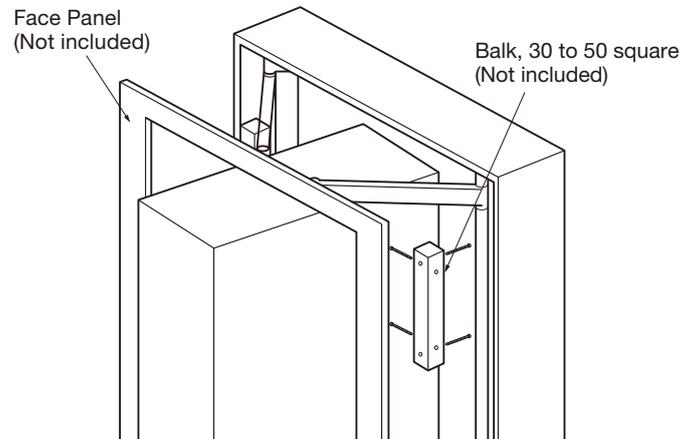
15 Mounting Cabinet

Insert the Rotating Cabinet between interlocking arms assembled at ❷ and screw-in the Wheel Pins ⑥.
Use Point-Fixing Tool, Z059 ⑫, for fixing Wheel Pins ⑥.
Note that rotation direction varies depending on the side of Interlocking Arm ①, which comes close to you. If the observer's right side of Interlocking Arm ① comes close to the observer, it rotates CCW as viewed from above when the Cabinet is pulled out.

Wheel Pin ⑥
Point-Fixing Tool, Z059 ⑫ (Not included)
Wheel Pin ⑥
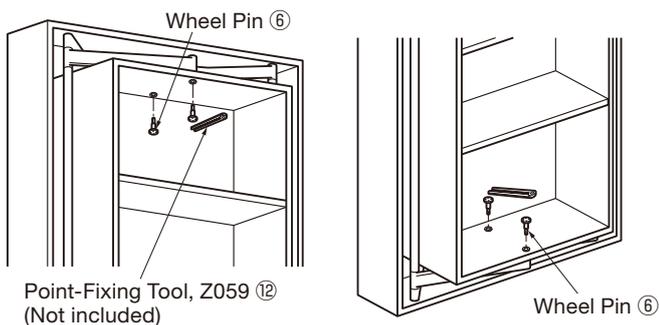
16 Mounting Face Panel

Customers should prepare the face panel mounted to the outside cabinet. Mount the panel from inside by using balk, etc., so that it can be removed when necessary. Confirm the clearance between the face panel and Interlocking Arm ① and the cabinet is even without contacting to each other.

Face Panel (Not included)
Balk, 30 to 50 square (Not included)

17 Mounting Bumper ⑩

Paste up Bumper ⑩ on the wall surface where the lumber end surface of the top board and bottom board of either cabinet are touching.

Bumper ⑩
Bumper ⑩

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