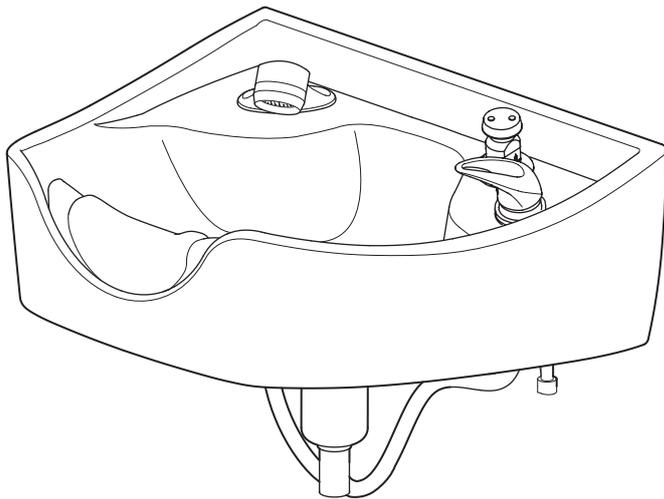


MAJOLICA PORTO Installation Instructions

■ MAJOLICA PORTO

○ Basin

○ Water plumbing kit



Contents

Before installation	2
Usage conditions	5
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To the installer

- The instructions should be thoroughly read and understood before installation to ensure that MAJOLICA PORTO is installed correctly.
- After installation, give these instructions to the customer.

To the customers

- Customers must not install MAJOLICA PORTO by themselves
- Customers must store these instructions in a safe place so as not to lose them.
- * The actual shape of MAJOLICA PORTO and the images and dimensions listed in these instructions may be modified and are subject to change without notice.

• The precautions listed here are to ensure that MAJOLICA PORTO can be installed safely, and to prevent any danger or risk to the person installing MAJOLICA PORTO or those around them. All of these precautions are important for safety. Takara Belmont is not responsible for any damage or risk to the person installing MAJOLICA PORTO or those around them due to accidents if MAJOLICA PORTO is installed without adhering to the precautions.



Precaution

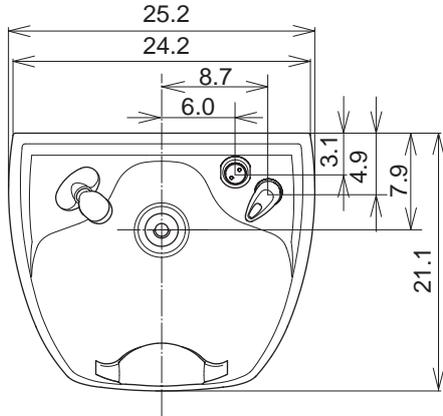
If MAJOLICA PORTO is installed after ignoring this symbol, "there is the risk of light or moderate injury or physical damage"

Note: Plumbing should be performed by a qualified technician and should meet all national and local plumbing codes and ordinances. It is the responsibility of purchaser and/or plumber to conform to national and local codes and ordinances. Takara Belmont does not take any responsibility or liability for plumbing and installation.

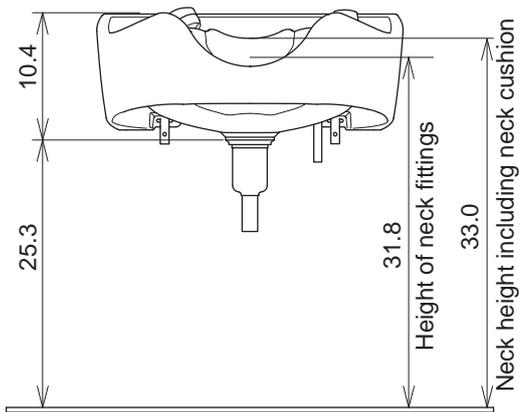
Before installation

<Dimensions> (unit : inch)

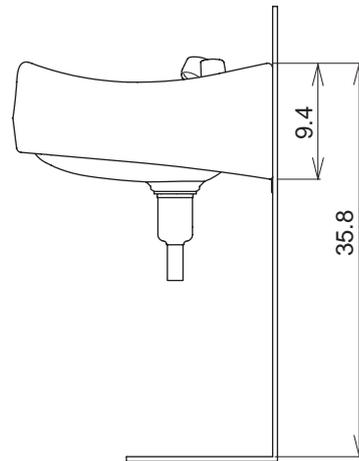
■ Top View



■ Front View

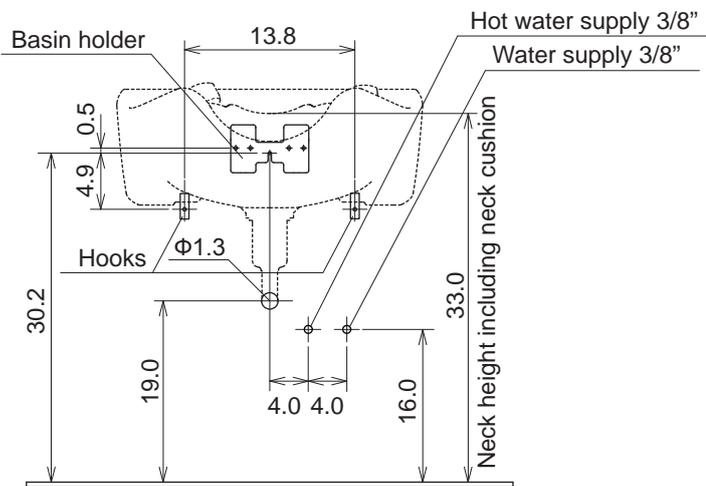


■ Side View

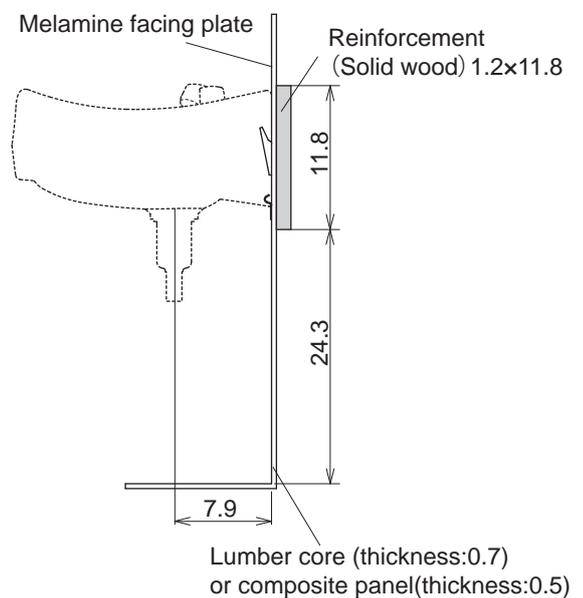


<Plumping layout>

■ Front View



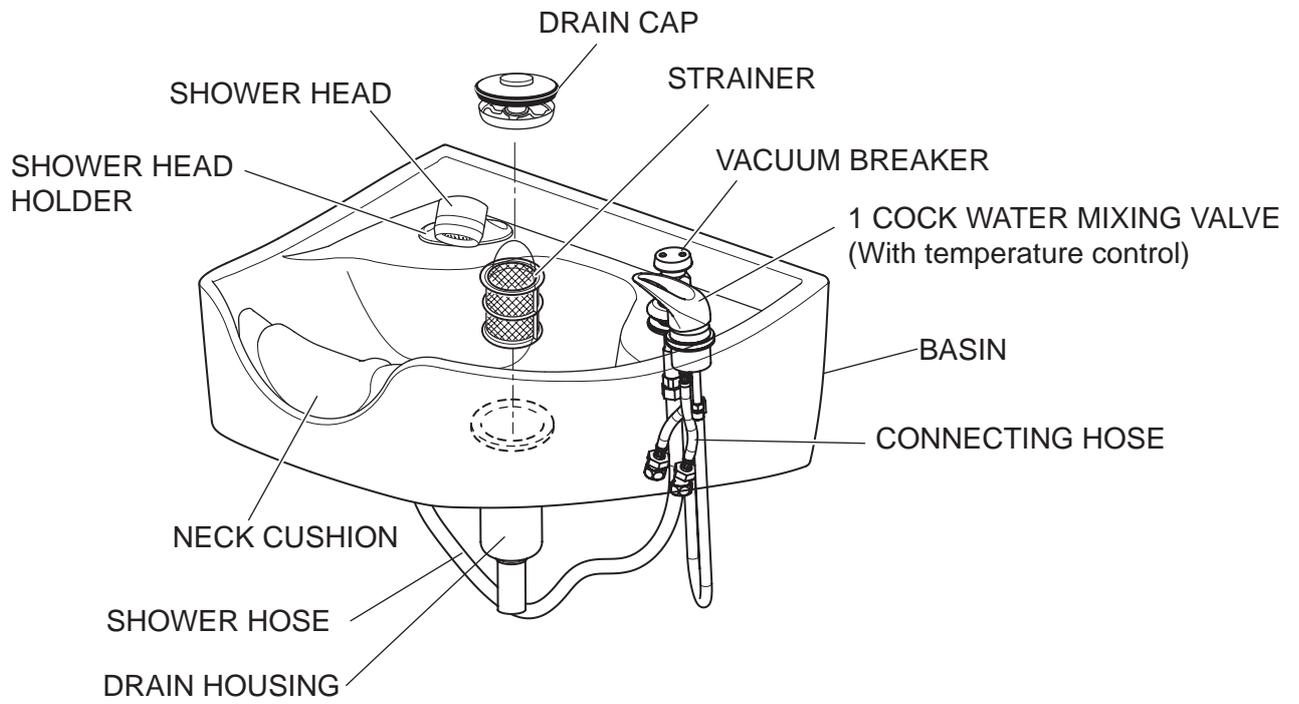
■ Side View



◆ Measurements including the neckrest height will vary

<Parts structure>

■Unit



■ Floor surface

- Ensure that the material or finishing of the floor surface is waterproof material or has a waterproof coating applied.
- Always ensure that the floor surface is horizontally level.
- Ensure that the floor surface is smooth and free from bumps around the attachment areas.

■ Wall

- For installation on the wall, the wall base strength should be equal to or stronger than a 1.7"-thick composite panel. If the wall is made of plaster or its thickness is less than 1.7", add a wooden reinforcement onto the wall(See page 2).
- Use a waterproof material such as melamine for the wall surface (for possible water splashes during shampoo treatment).
- Ensure that the wall surface is vertically straight (if not, it might affect the neck height of the basin or cause poor drainage).

■ Raising pipes

- Always use a rigid PVC pipe and rigid PVC pipe joint when raising a drainpipe.
After the installation, ensure that the drainpipe is stable.

Piping specification

Hot water / water supply	3/8"
Drainage	1.3"

■ Waterproofing

- In case of the installation on the first floor of higher, waterproof the floor appropriately (e.g. do water proofing work, use a floor tray made of stainless steel, set up a water leak sensor, etc.)

■ Installation of pipes

The following points are important to adhere to during the installation of pipes. Read through the details carefully and ensure that the pipes are installed correctly.

- When installing this product, ensure that installation of pipes adheres to the instructions outlined in "Precautions during installation of pipes". Installing pipes without reading through the precautions will mean water may not mix properly, and a set temperature will not be achieved.
- This product is designed for indoor installation only.

■ Precautions during installation of pipes

- Do not use pipes made of materials that may cause rust in the water supply pipe. In general, VP pipes or other materials specified by regulations for a particular region, are recommended for installation.
- In general, Type L deoxidized copper pipes are recommended for hot water pipes.
- In general, the same diameter and same pressure is recommended for hot water pipes and water supply pipes.
- Always use a reamer to deburr the ends of cut pipes.
- Avoid using inverted U-shaped pipes (siphon) as these can cause air to become trapped.
- Always connect hot water pipes and water supply pipes after removing all contaminants such as dirt, sand and oil as these can cause problems.
- After connecting the pipes and testing water flow, clean the filter and shower head.
- Ensure that the drain pipe is installed at a gradient of 1/4" for a diameter of ϕ 3.0" or less, or 1/8" for a diameter of ϕ 3.0" or more.
- Do not connect the hot water pipes and water supply pipes in reverse. Connecting pipes in reverse will mean the temperature of water cannot be controlled properly by the water taps, which may cause scalds or burns.
- Ensure that the hot water pipes from water boilers are only run over a short distance so as to minimize resistance. Longer pipes can cause fluctuations in temperature and poor hot water delivery.
- Always wrap pipes with lagging material after installation is complete.
- Water boiler pipes
 - In general, the same diameter and same pressure is recommended for main hot water pipes and main water supply pipes.
 - Ask a professional to install a water boiler.
- The equipment comes with a strainer installed.

Usage conditions

■ Hot water supply and water supply conditions

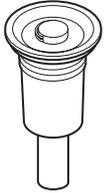
Water used	<ul style="list-style-type: none"> • Public water supply (do not use non-drinkable well water or water that contains rust or sand.) • If the water hardness is 80 ppm or higher, install a water softener to prevent the buildup of scale within the unit. Aeration may be minimal when using shampoo even if drinkable well water is used, so a water softener should be installed.
Hot water supply, water supply pressure	<ul style="list-style-type: none"> • Use a pressure between 14.5 and 58.0 psi. If multiple MAJOLICA PORTO units are used, ensure that the pressure does not drop below 14.5 psi • Set the water supply pressure \geq hot water supply pressure. • Set the difference between the hot water supply pressure and water supply pressure to within 29.0 psi.
Hot water temperature into the product	<ul style="list-style-type: none"> • Set the hot water temperature to 176°F or less. • Set the temperature 50°F or higher than the shower temperature used.
Water boiler	<ul style="list-style-type: none"> • Do not use steam with the hot water supply

Content of packing

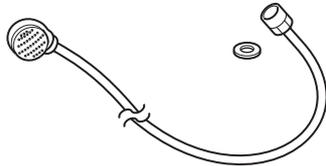
*Please check all below parts are included before installation.

■Packing details

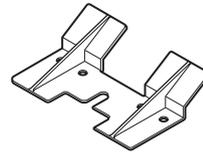
□DRAIN HOUSING



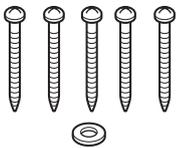
□SHOWER HOSE
(RUBBER PACKING is included)



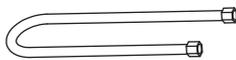
□BASIN HOLDER



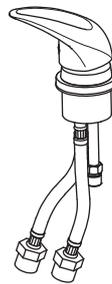
□SCREW SET
FOR BASIN HOLDER



□CONNECTING HOSE



□1 COCK WATER
MIXING VALVE



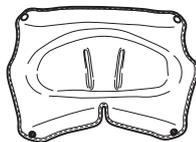
□VACUUM BREAKER
WITH RUBBER



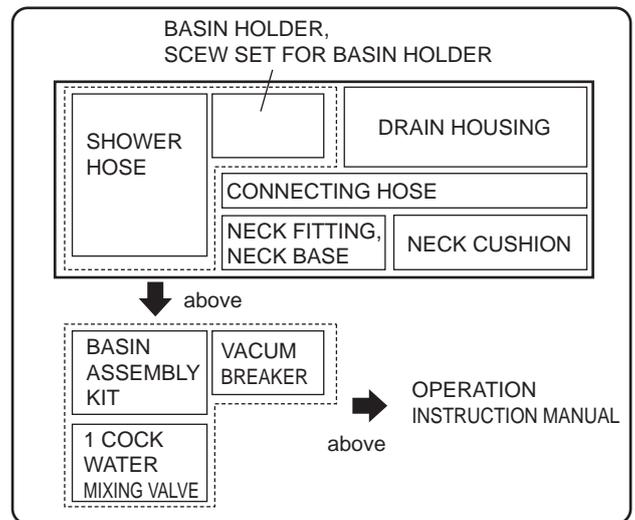
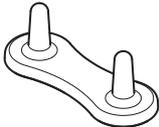
□NECK FITTINGS



□NECK CUSHION



□Neck base
[It has two packings in the reverse side (2)]



<Basin assembly kit>

□HOOKS
(SCREW(2) is included)



□VB PIPE
COUPLER



□WATER MIXING VALVES
MOUNTING PK



□VB BREAKER C



□VB HOLDER A



□FORMING PACKING
FOR THERMO



Transporting the unit

■ Carrying Water plumbing kit

Precaution

- Some parts are metallic or plastic.
Do not drag or drop the outer packing.
Doing so may cause damage and break to these parts.
- Take extra care if opening the boxes with a sharp object such as a knife, so that the inside parts do not get damaged.

■ Carrying basin

Precaution

- Take care when handing the basin as it is heavy and fragile.
- Don't drag the basin. Doing so may cause damage to the floor surface or crack the basin itself.

Unit installation

*Please make sure that this product is installed in the correct order as listed below.
Failure to follow these instructions may result in an inability to install the basin.

■ Chart flow of unit installation

1. Wall fittings



2. Vacuum breaker, Water mixing valve



3. Drain housing



4. Neck base



5. Basin



6. Flexible pipe



7. Shower hose



8. Drain pipe



9. Neck cushion



10. Testing the unit



After installation

○Check each item on the checklist



11. Sealing

1 Wall fittings

[Before installation]

“STOP VALVE”, “FLEXIBLE PIPE”, “HAIR TRAP” and “DRAIN HOSE” are not included.
Prepare those parts that suited the local regulation.

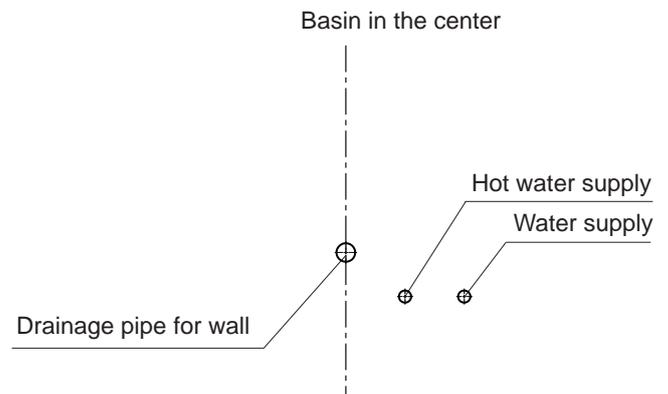
1 Attach stop valve



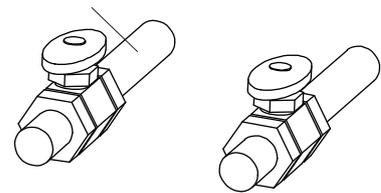
Precaution

Follow a local rule, when you attach piping.

1. Check the position of drainage pipe for floor, based on the installation position of the basin (Basin in the center).
* To check the position of drainage pipe riser, hot water supply and water supply-riser refer to the dimentions. (See page 2)
2. Mark the position to fix the basin holder and hooks.
3. Apply thread seal tape to the screws of the stop valve (which are closer to the wall) with seal tape.



STOP VALVE



2 Attach BASIN HOLDER

1. Temporarily fix the BASIN HOLDER on to the wall, with the supplied wood screw and flat washer into the center of the bracket.

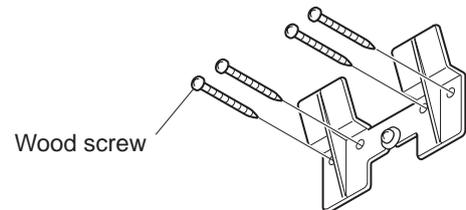
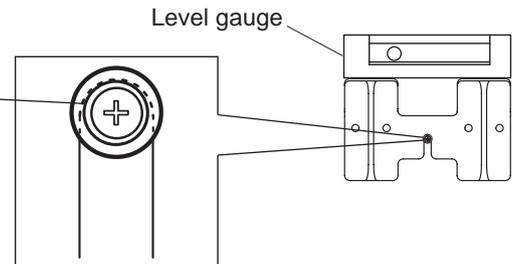
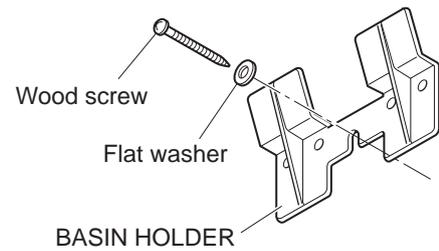
5.8x63 Wood screw...1
15.5x1.5x1.5 Flat washer ...1

2. Level the BASIN HOLDER.

*Check if the wood screw fits in the slotted hole of the HOLDER.

3. Tighten the wood screw in the center, Secure it with 4 other wood screws.

5.8x63 Wood screw...4

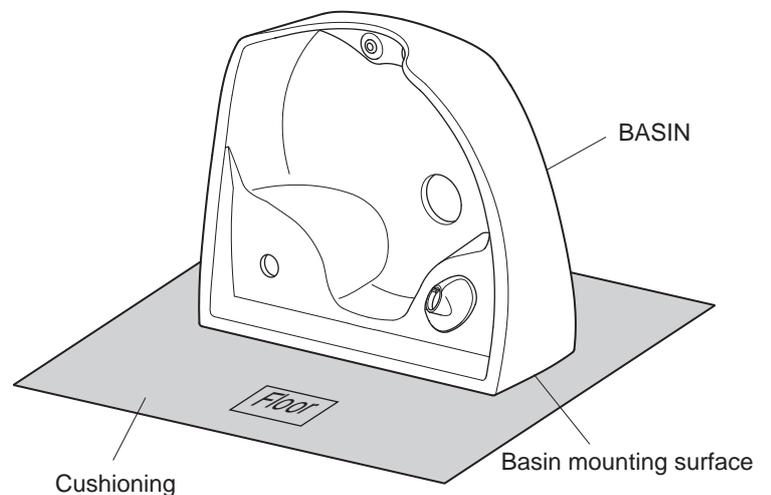


2 Vacuum breaker, Water mixing valve

Place the basin mounting surface on the floor for easier installation

Precaution

Ensure to put the BASIN on the floor gently, after spreading a cushioning material, to avoid damaging the BASIN.



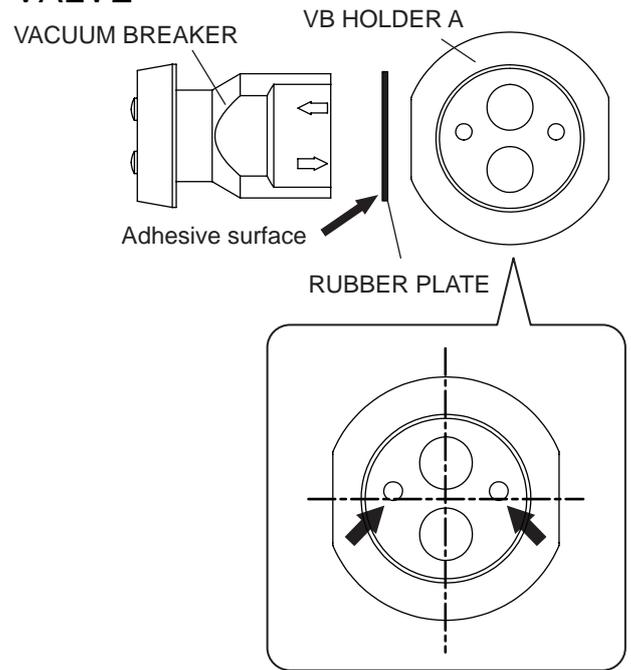
Attach VACUUM BREAKER, WATER MIXING VALVE

1. Attach RUBBER PLATE to VACUUM BREAKER.

2. Install VB HOLDER A to the VACUUM BREAKER.

*Install while paying attention to the orientation.

The holes that are close to the tapped holes should be on the upper side.



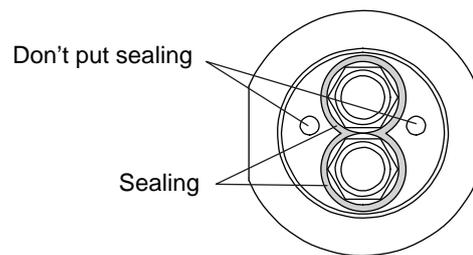
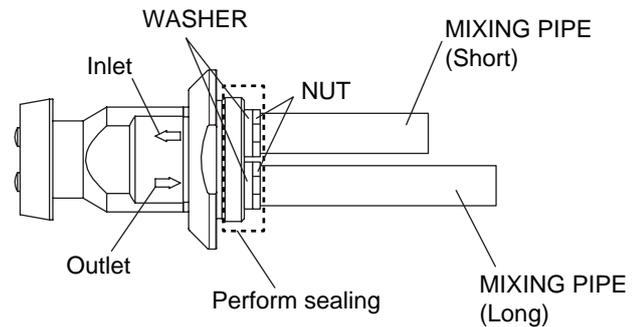
3. Wrap seal tape thread of MIXING PIPE (long, short) on both side.

Put VB HOLDER A caught in the VACUUM BREAKER and fasten them with WASHERS and NUTS.

*Install the long and short pipes to the outlet and inlet sides respectively.

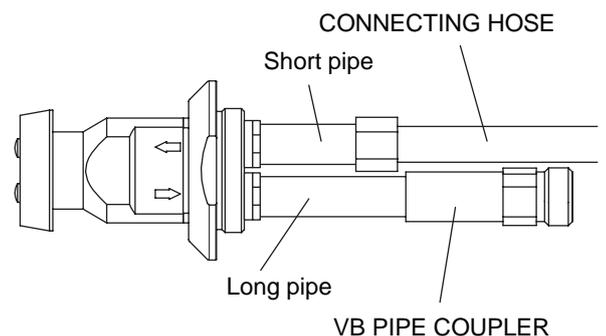
*Perform sealing around WASHER and NUT except around thread.

*WASHERS and NUTS are supplied with the VACUUM BREAKER.

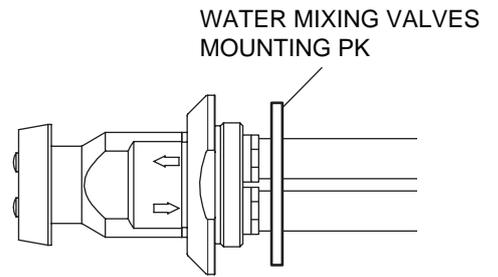


4. Insert the long pipe into the VB PIPE COUPLER and fix tightly. Insert the short pipe into the CONNECTING HOSE and fix tightly.

*Check to wrap seal tape over the threads of the pipes.



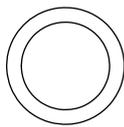
5. Pass WATER MIXING VALVES MOUNTING PK through VB HOLDER A and install it to the hole of the BASIN shown in the picture.



*The shape of WATER MIXING VALVES MOUNTING PK is similar to that of FORMING PACKING FOR THERMO.

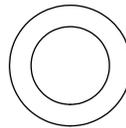
Please check it before attaching the VB HOLDER A.

WATER MIXING VALVES MOUNTING PK



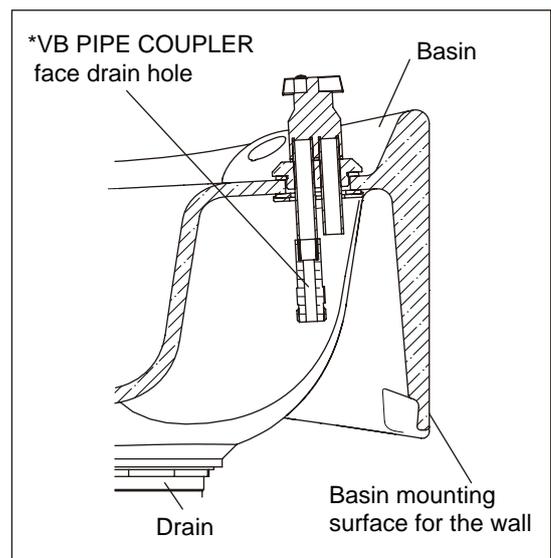
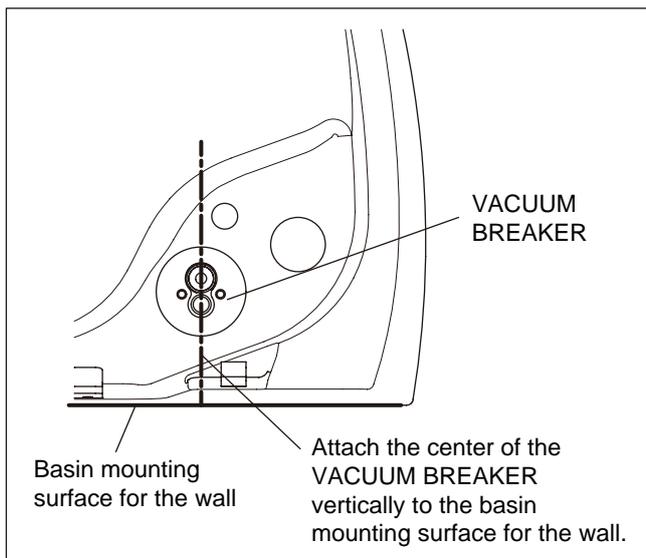
Width is smaller

FORMING PACKING FOR THERMO

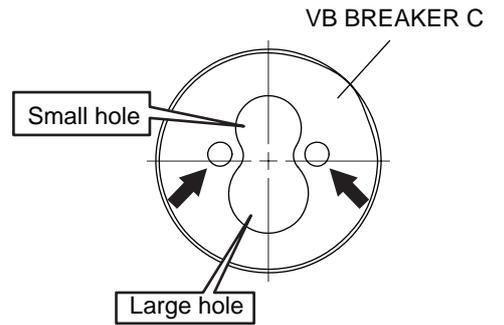


Width is bigger

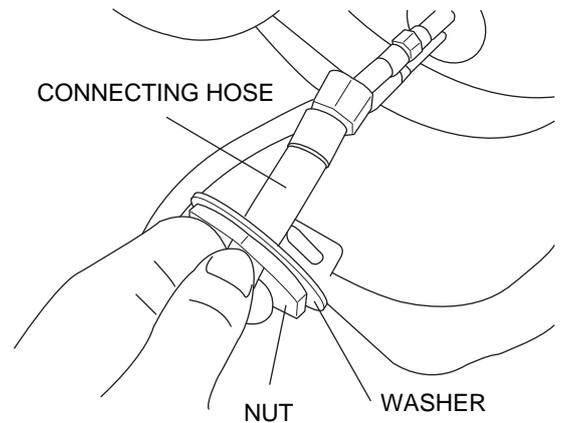
*Make sure to insert the VACUUM BREAKER into the correct hole in the basin.



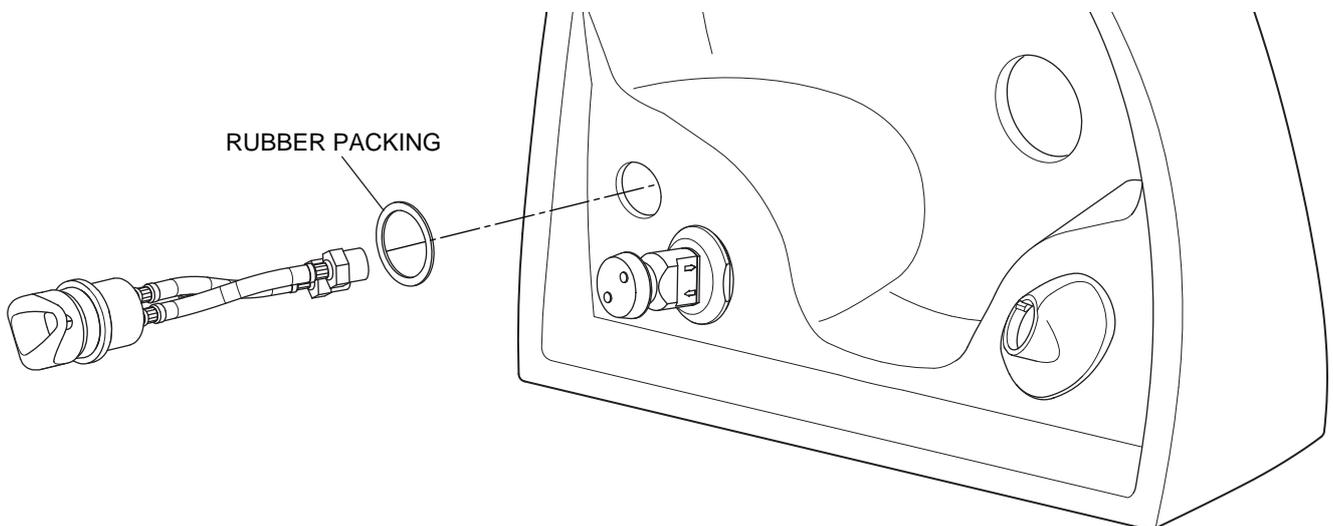
6. Pass the FORMING PACKING FOR THERMO and VB BREAKER C through the back of the BASIN and fix them with screws. (M6×20 P3, 2pcs)
 *Pass the VB PIPE COUPLER through the large hole of VB BREAKER C.

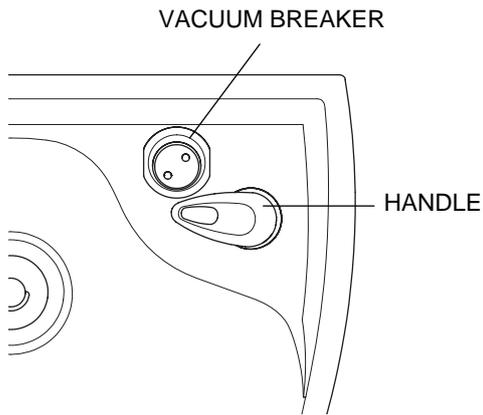


7. Pass the WASHER and NUT through CONNECTING HOSE

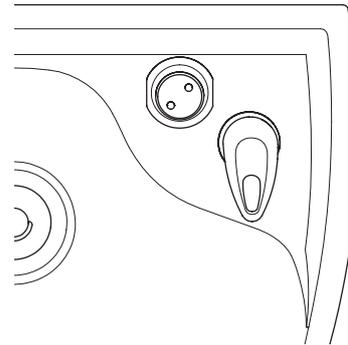


8. Wrap seal tape over the thread of mixing pipe in WATER MIXING VALVE.
 Install WATER MIXING VALVE to the basin and fix it by WASHER and NUT.





When turning the handle completely for the hot water side.



When turning the handle completely for the water side.

Pay attention to the installation orientation of WATER MIXING VALVE.

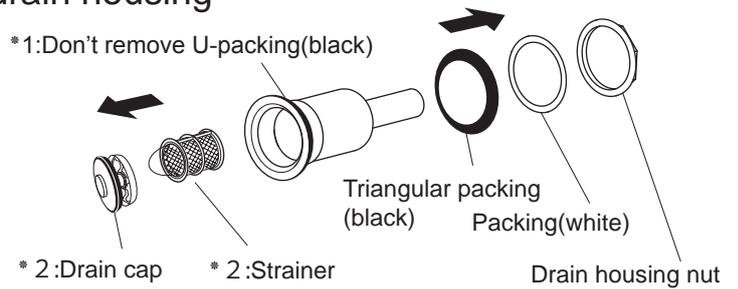
*The edge of the handle should be left side when turning the handle completely for the hot water side.

Then check that the handle doesn't hit VACUUM BREAKER.

3 Drain housing

1 Remove the drain housing nut, packing(white) and triangular packing(black) from the drain housing

- * 1: Do not remove the U-packing (black).
- * 2: Remove the drain cap and strainer from the drain housing when inserting it into the basin. Otherwise they might pop out and damage the basin and the floor.



2 Seal the drain housing

Use black sealing.

⚠ Precaution

- Put sealing around the edge of DRAIN HOUSING. When you attach DRAIN HOUSING, the SEALING should be bulging out of all round of DRAIN HOUSING in the basin. Less SEALING have the hair stuck in the gap between the BASIN and DRAIN HOUSING.
- Wipe off the sealing completely bulged from the inner face of the basin by soft cloth not to leave the sealing in the basin. Failure to follow instructions may cause discoloration.

DRAIN HOUSING SEALING (black) Soft cloth

Wipe off the sealing all round of DRAIN HOUSING

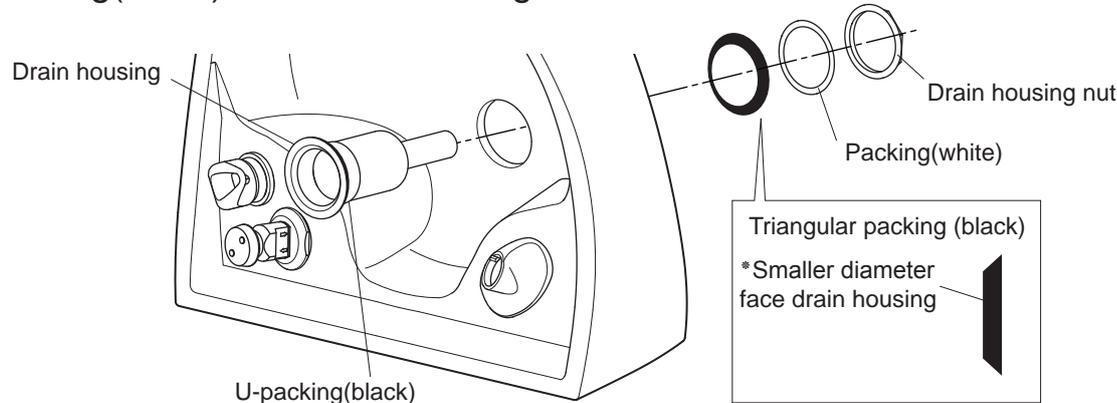
Guide of sealant quantity

U-packing (black) SEALING (black)

Correct incorrect

Drain housing

3 Insert the drain housing into the basin, and fix it with the triangular packing(black), packing(white) and drain housing nut.



⚠ Precaution

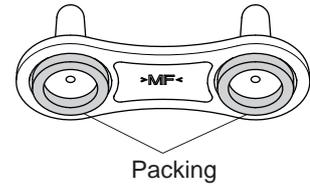
- Pay attention to the order you attach packings. If it is done incorrectly, it may result in a water leak.
- Wipe off the sealing completely bulged from the inner face of the basin by soft cloth not to leave the sealing in the basin. Failure to follow instructions may cause discoloration.

4 Neck base

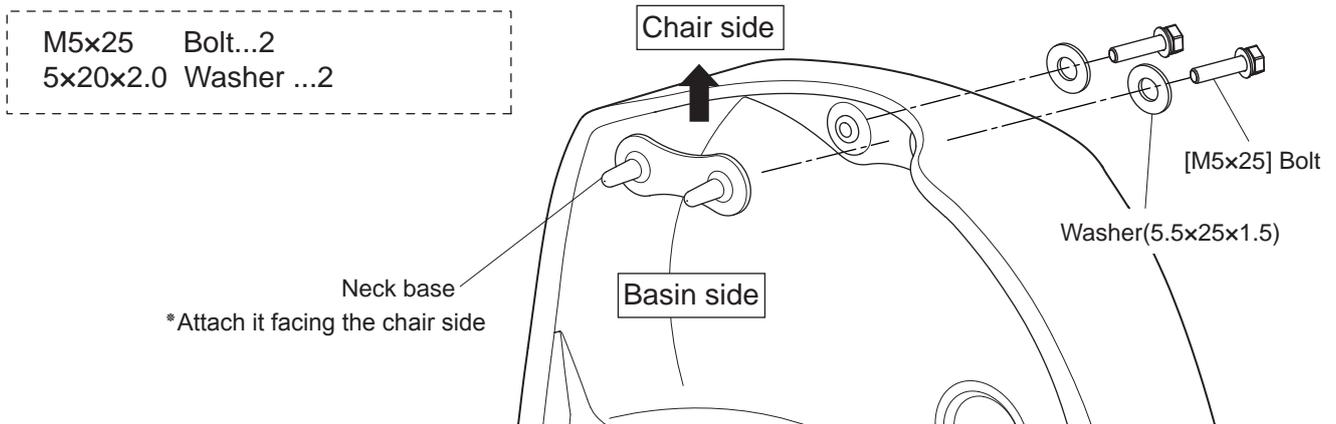
Precaution

- Don't overtighten the screws. Don't use an motor screw drive.
- Check if the neck base has packing in the reverse side.
If not, it may result in a water leak. If the packing is not found, please contact your closest dealer.
- Attach the neck base facing the chair side. If there is a space between the basin and the neck cushion, water might spill over from the basin.

[the reverse side of neck base]



Attach the neck base facing the chair side.

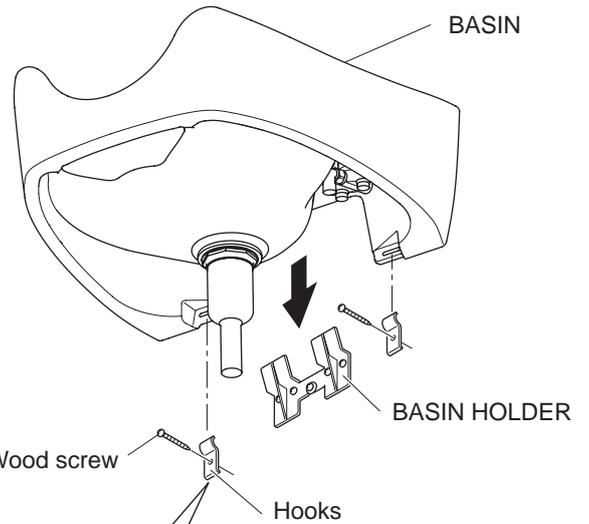


5 Basin

1 Fit the BASIN into the BASIN HOLDER

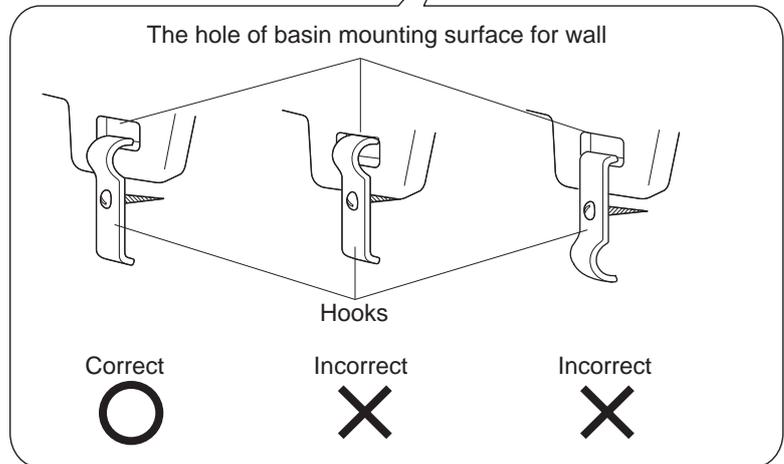
⚠ Precaution

Make sure the basin is fitted onto the BASIN HOLDER securely in order to avoid the basin from dropping against the floor and causing injury.



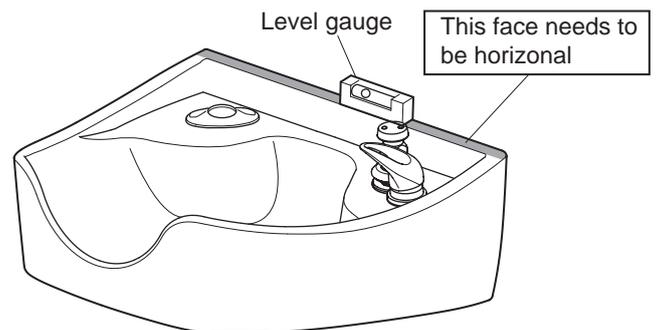
2 Level the basin (horizontal direction) by using the level gauge, and fix it with the hooks.

5.8x50 Wood screw...2

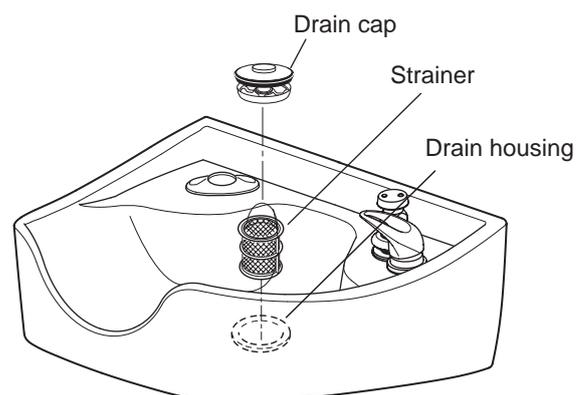


⚠ Precaution

- Make sure the hooks touch the bottom ends of the holes in the basin (facing the wall), and fix them with the screws.
- Do not reverse the hooks.
If the above is not done correctly, the basin might become unstable, which may cause injury.



3 Install the strainer in and the drain cap on the drain housing

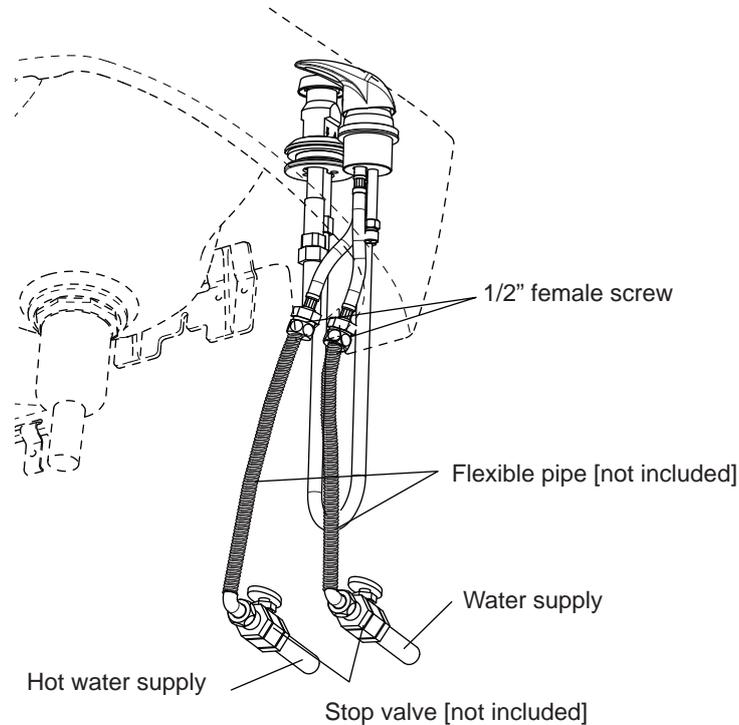


6 Flexible piping



Precaution

Follow a local rule when you attach piping.



1 Bend the flexible pipe in the way that it fits WATER MIXING VALVE and STOP VALVE.

2 Attach flexible pipes to WATER MIXING VALVE and STOP VALVE.

*Preventing water leak, put a packing on the flexible pipes or wrap seal tape around the screw depending on the spec of parts (STOP VALVE and FLEXIBLE PIPING.)

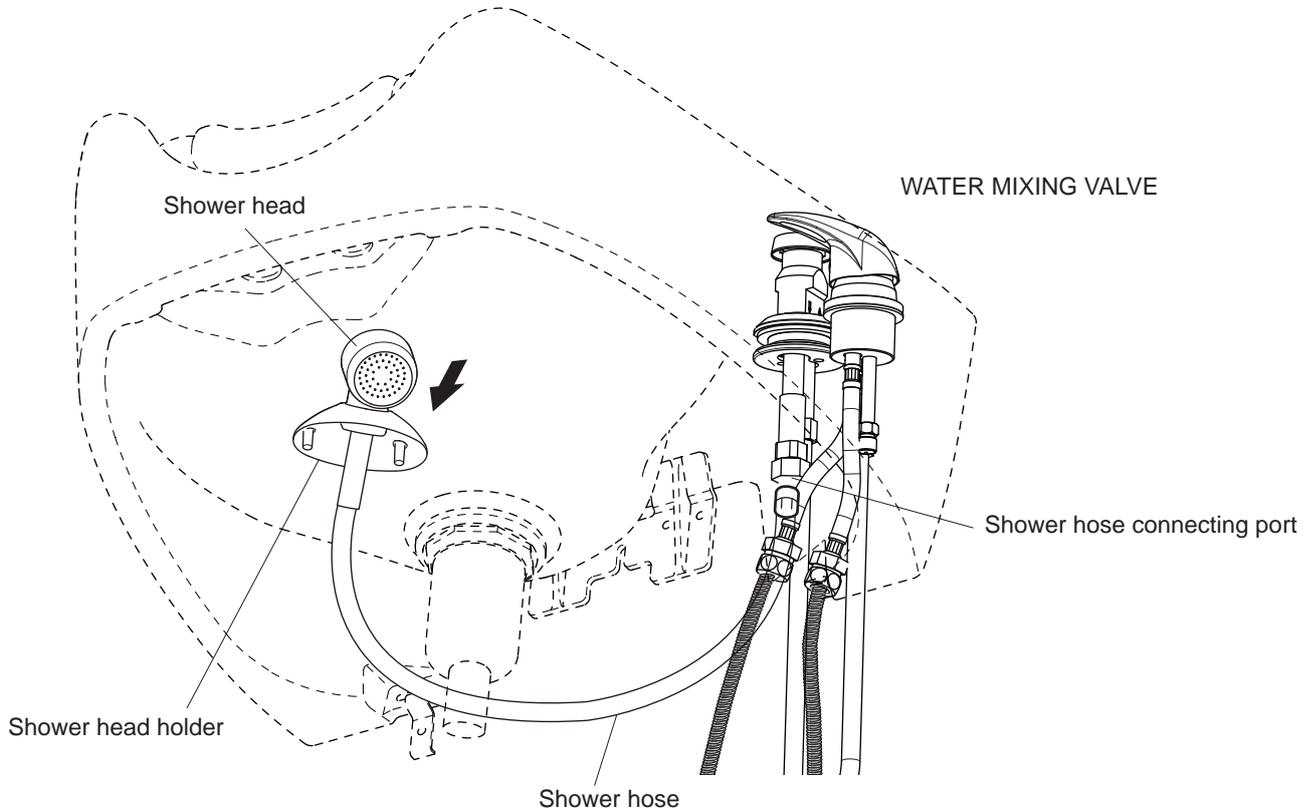


Precaution

- Do not connect the hot water and cold water in reverse.
- Make sure the hot water pipe and the water pipe do not touch each other.
- Do not attach the flexible pipes on the showerhose side on the WATER MIXING VALVE. Doing so might prevent water from coming out and cause water leak.

7 Shower hose

Put the shower hose through the shower head holder, and attach the hose and to the shower hose connecting port.



8 Drain pipe

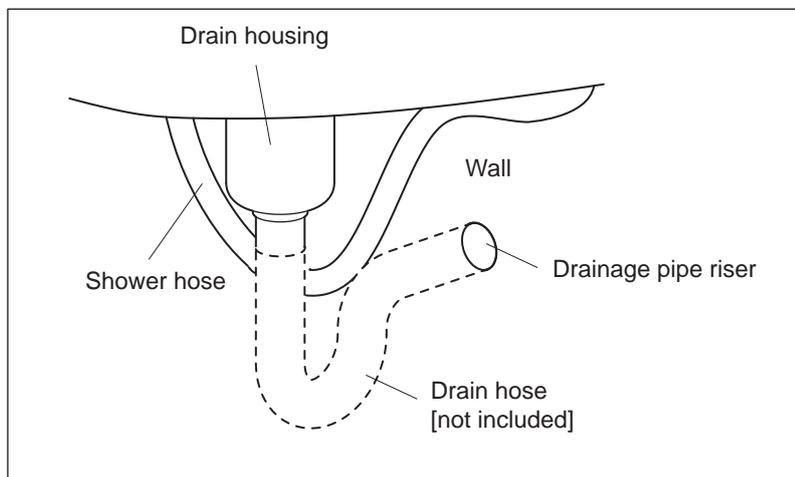


Precaution

Follow a local rule when you attach piping.

Attach drain hose to a drain housing and installed drain pipe.

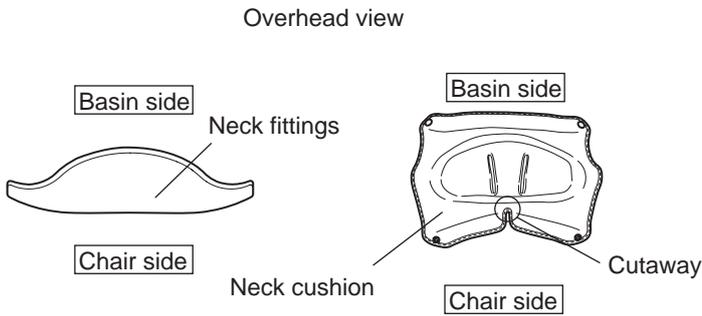
*Attach drain hose below shower hose referring to below picture.



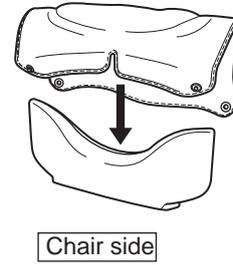
9 Neck cushion

Attach the neck cushion

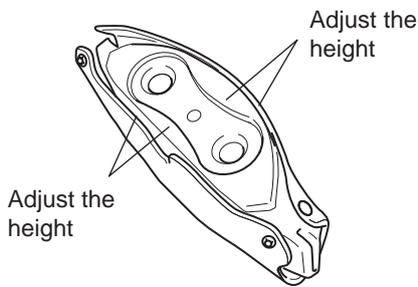
1. Check the proper direction of the neck cushion and the neck fittings.



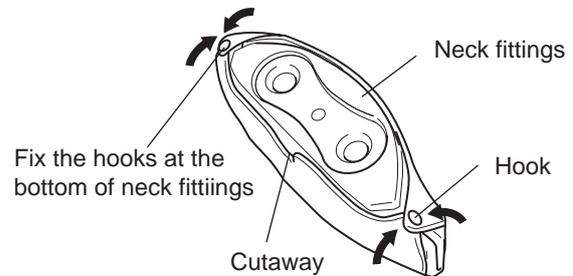
2. Hold the neck cushion, and fit it to the center of neck fittings.



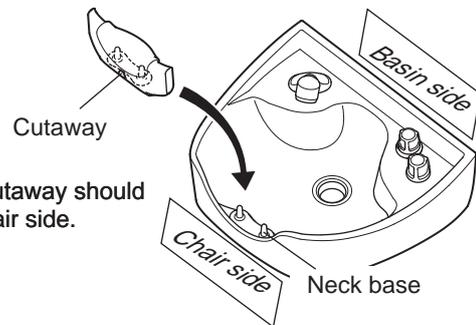
3. Adjust the height of neckrest fittings and right and left edges of neck cushion. (both sides)



4. While pulling the neck cushion, secure it with the hooks (2 locations). As shown in the below illustration, secure the hooks at the bottom of neck fittings.



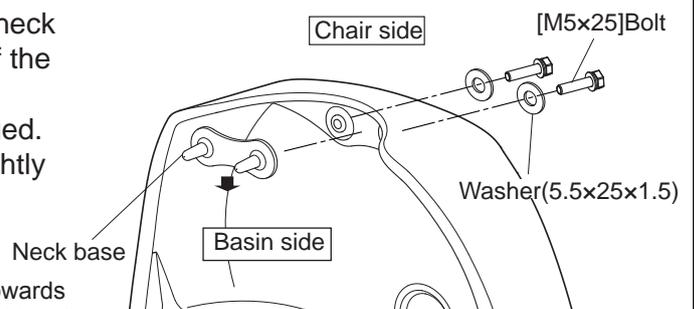
5. Insert and secure the neck fittings to the neck base. Pay attention to the proper direction of neck fittings. The surface of neck cushion with cutaway to be faced to the **chair side**.



*This side with cutaway should come to the chair side.

⚠ Precaution

When the neck fittings are put on the neck base, check if the neck cushion does not touch the basin, and if the neck fittings can go into the neck base smoothly. Otherwise the neck cushion might be come damaged. In case of such problems, move the neck base slightly towards the basin (away from the chair side) are re-fix the neck base so that the neck cushion does not touch the basin.



*Attach it towards the basin side a little.

10 Testing the unit

1 Test water flow

Precaution

Always test the water flow to prevent accidents during use.

*Test the water flow and inspect the following items. The hot water may be slightly tainted at the start of the water flow test, however, this does not indicate any problem.

1. Is there no water leaking from the pipe joints?
2. Are the hot water supply and water supply pressures at the same, stable pressure? (See page 5)
3. Can temperature be controlled properly?
4. Check that the shower outlet flow is sufficient, by the following as a guide for flow rate.

Shower outlet flow rate

Hot water supply pressure, water supply pressure: 14.5psi
Shower outlet temperature : 104°F

Shower outlet flow rate : Approximately 2.12 gal/min

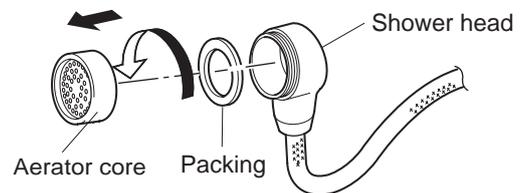
2 Cleaning

- After the hot water becomes clear during the water flow test, always clean the filter and shower head.

Precaution

Failure to do so can result in insufficient flow rate and faulty temperature regulation. During the cleaning, ensure not to damage or lose the packings.

Remove any trapped dirt and clean the shower head



After installation



Precaution

Be sure to execute the inspection without fail to prevent accidents during operation

■ Inspection

1. Check that there are no missing screws or other parts.
2. Check that there are no loose parts
→If any part is loose, check the bolts at the joints again.
3. Check that there are no cracks or contamination on the basin.
4. Check that there are no problems, such as flaws on the external appearance.
5. Check that there are no water leaks on the floor.
6. Check that there are no longer gaps between the basin and the wall.
7. Put drops of water on the shower head holder and neck base to check that there are no water leaks.
→If water leaks are observed :
 - Check that the screw and washer are tightened
 - Check that the packing is attached.
8. Check that the neck cushion does not touch the basin and can be inserted smoothly, when putting the neck fittings on the neck base.
→If such problems are observed, adjust the position of the neck base. (See page 19)

11 Sealing

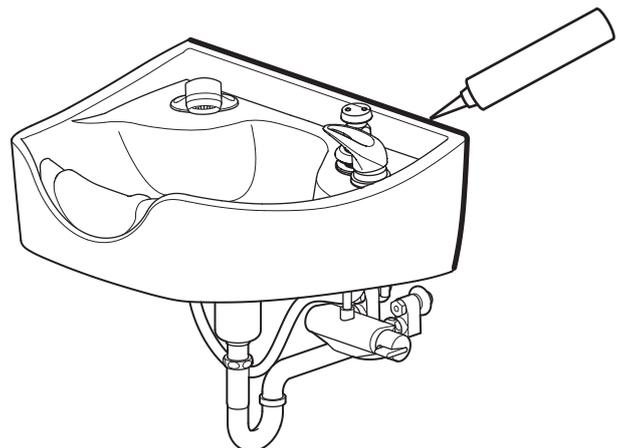
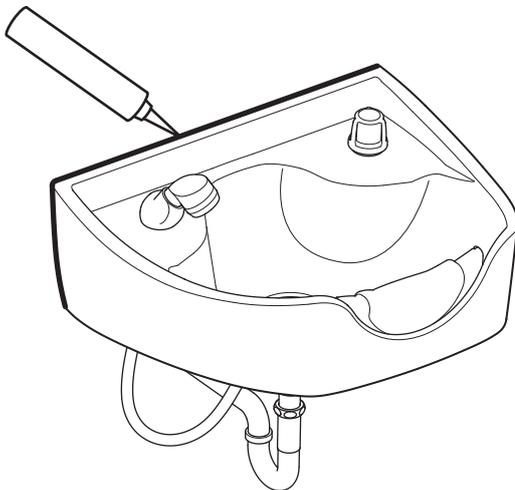
○Seal the gaps(The width of sealing : approximately 0.2")

*Put masking tape on the gap between the basin and the wall before the sealing.



Precaution

Ensure to seal the gap between the basin and the wall completely.
Check that there are no cutaway found in the sealing.
If the sealing is not complete, the wall might become corroded by penetrating water.





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