

# MINI Installation Guide



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# 1. Installation Parts and Components

## ◆ Standard Installation Parts

### 1) Anchor Set: 4 sets



. Anchor Bolt: L=15cm(6inch), M10

### 2) Installation Manual, Screw(4EA)



[Installation Manual]



[Fixing Screw]

### 3) Inlet / Drain Hose, Connector inlet valve



[Inlet Hose]



[Drain Hose]



[Connector inlet valve]

. Inlet Hose: 5M

. Drain Hose: 3M

. Connector inlet valve: regular faucet(small)

❖ Additional Hoses and Connector inlet valve of different sizes available

### 4) Cushion Pad(4EA), Elbow(2EA)



[Cushion Pad]



[Elbow]

## ◆ Installation Parts for Additional Sales

### 1) Inlet Hose, Drain Hose



[Inlet Hose]

. Inlet Hose: Roll



[Drain Hose]

. Drain Hose: 1M

### 3) Elbow, Tee Union, Union Connector



[Elbow]



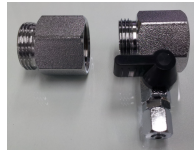
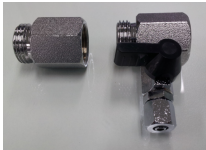
[Tee Union]



[Union Connector]

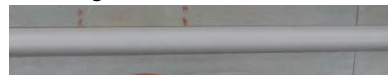
. To organize hoses & Extension of inlet hose

### 4) Connector inlet valve (Medium, Large, Royal)



. Connectable to regular faucets and cold/hot water pipes

### 5) Molding Cover



### 6) Anchor Set



. Anchor Bolt: L=20cm (8inch), M10

### 7) ADAPTER INLET VALVE AS

















[HOOK TYPE]



[SCREW TYPE]

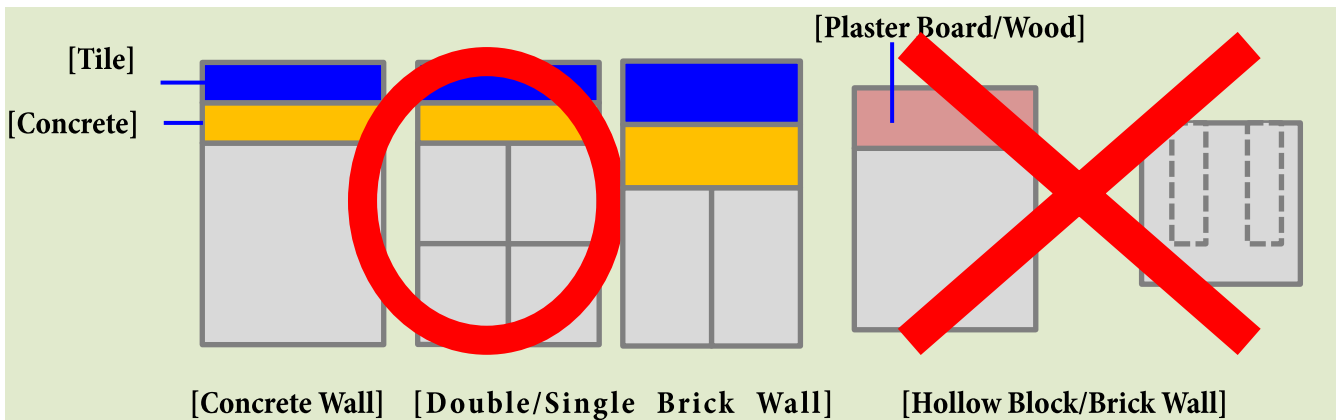
❖ Additionally required parts other than standard parts must be pre-approved items.

## 2. Installation Tools

No	Item	Spec.	Photo	Uses
1	Tile Drill Machine	Ø14mm		Drilling a hole in tile
2	Drill Machine set	Ø13mm		Drilling a hole in concrete wall ( Drill Machine + Drill Bit )
3	Grinder	General use		Cutting anchor
4	Anchor Punch	6"		Fixing anchor caps
5	Hammer	General use		Anchor Punch
6	Adjustable Wrench	General use		Fixing Connector inlet valve
7	Spirit Level	General use		Attaching installation manual
8	Gear Wrench	14mm		Fixing anchors
9	Screwdriver / Stubby Multi-Bit Screwdriver	+ type		Fixing earth harness / body
10	Long Nose / Nipper	General use		Fixing drain hose clamps
11	Marking Pen	General use		Marking hole spots for anchors
12	Utility knife/Scissors/Hacksaw	General use		Cutting inlet/drain hoses, molding
13	Locking Paint	LOCTITE 271		Lock paint for fixing anchor nuts / 80 units available
17	Teflon tape	General use		Fixing Connector inlet valve

### 3. Installation Method and Procedures

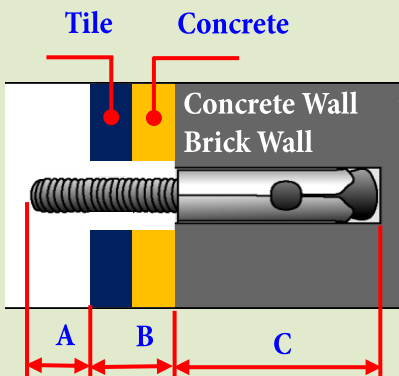
#### ① Positioning of Installation



- ❖ Recommend concrete or brick wall for stable installation.
- ❖ Non-installable on walls containing plaster board, wood (including MDF), or paper finishing.
- ❖ A single wall (composed of tile and masonry) can be also set up.
- ❖ The setup is allowed for a wall whose outer wall is thicker than 100 mm.
- ❖ Installable on walls built with single-layer bricks or Tile+ Concrete.
- ❖ Check the installable walls and locations before starting drilling holes in the wall.
- ❖ Breast-high location is convenient for loading and unloading the laundry.
- ❖ Recommend sites with easy access to water supply, drainage, and electric outlets.

#### ② Inspection of Installation Wall

- Perform a manual inspection of the wall
- Wall flatness must be 4mm or lower.



**Standard Anchor Bolt: 150mm (6inch) in default**

**[Length Requirements]**

- A: 75mm (Wall to the end of bolt)
- C: 45mm (Anchor cap fixation)

**[Thickness of Installable Tile Wall]**

- B=30mm (Combined thickness of tile and concrete layers)
- B>30mm : Use 200mm(8inch) Anchor Bolt

- ❖ Do not install the washer on a severely bent or cracked wall.



### ③ Opening and Inspection of Installation Parts

- Open the carton and inspect the required installation parts therein
- Maintain full understanding of the installation manual

### ④ Attachment of Installation Manual

- Remove the back cover and flatten the manual sheet before attaching it to the wall.
- Check vertical direction and horizontal and then remove the installation manual after marking the holes to be drilled.



#### ❖ Considerations for Determination of Height

- . The product is 17cm and 18cm longer than the top and bottom ends of installation manual but equivalent to the manual in width. Determine the height of installation considering that additional clearances are required to fix the top and bottom screw to mount the washer body.

### ⑤ Drilling Tiles

- Notch a hole by tilting the tool down and drilling the tile at a medium pace as shown in [Number ①] and then raise the tool perpendicular to the wall as shown in [Number ②] to drill a hole without damaging the tile.

[Drilling Tiles]

- Tile Hole Bit: 14mm

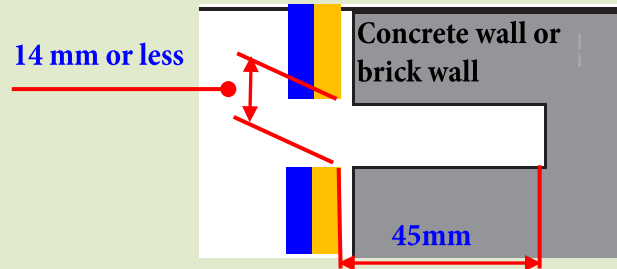
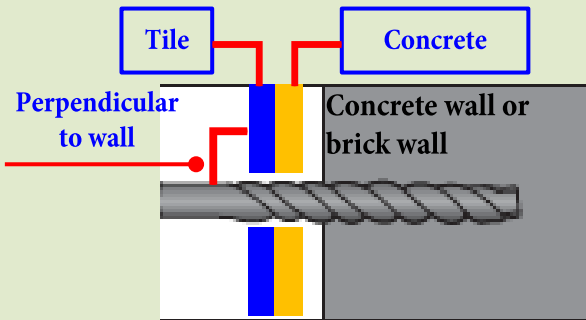


- ❖ Drill a hole carefully so as not to damage the tile.  
The hole must be created perpendicular to the wall.
- ❖ Examine the thickness of wall after boring.  
The maximum thickness must be 30mm or less.

- ❖ You must use “a drilling machine for ceramic tiles” to drill a hole through the tile.

## ⑥ Concrete Wall Drilling

- Drilling a hole perpendicular to wall
- Depth of Hole: 45mm (+5/-0)
- Drill Bit Diameter : 13mm

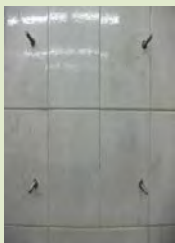


[Hole Drilling]

- ❖ Drill a hole carefully so as not to damage the entry of the hole. The hole must be created perpendicular to the wall.
- ❖ The hole must be 13mm or less in diameter and about 45mm in depth.
- ❖ Remove concrete debris inside the hole before measuring the depth.
- ❖ Inject chemical anchor around the anchor bolts to stabilize them on the wall when the anchor bolts are not fixed tightly.

## ⑦ Fixing Set Anchors

- Insert set anchors into holes and use an anchor hammer for further fixing.
  - Anchor caps must have the equivalent height to the concrete wall.

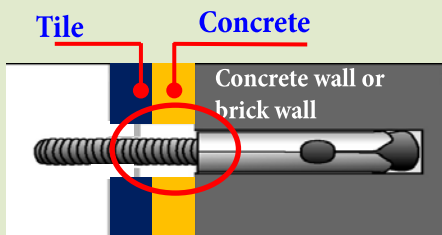


[Insert set anchors]

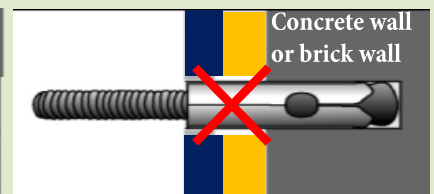
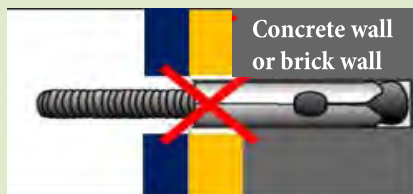


[Fix anchor caps]

- ❖ Use a proper anchor hammer in line with the specifications of anchor bolts. Improper hammer may cause insufficient insertion of anchor caps.
- ❖ The fixed anchor bolt must be 75mm long or longer above the wall.



[Correct Fixation]



[Wrong Fixation: Insufficiently inserted anchor cap]

## ⑧ Connection of Inlet/Drain Hoses

- Connection of Inlet Hose: Insert the inlet hose from the back until the “Y”-shaped or check valve connector makes a snapping sound. (Length of inlet hose: 5M)
- Connection of Drain Hose: Insert the drain hose from the back and then fix it with clamps after connecting it to the drain pipe of drain housing.
  - Direction of clamp: Required to head inward. (Length of drain hose: 3M)



[Connection of Inlet Hose]



[Connection of Inlet Hose]



[Connection of Drain Hose]

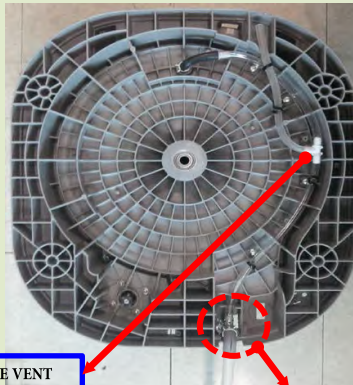
- ❖ Connect hoses properly to prevent leaks.
- ❖ Adjust the length of inlet and drain hoses after measuring the distance between faucet and drain.

## ⑨ Hose Arrangement

- Organize inlet/drain hose, hose vent, and power cord to prevent them from being bent or pressed down.
- Inlet hose and power cord may point upward or downward according to the locations of faucet and electric outlet.
- Organize the vent hose with fixing clamps to prevent it from being bent or pressed down.



[Pull down the inlet/  
drain hose/power cord]



HOSE VENT

Drain hose inlet



[Back Side] Insert drain hose in drain hose inlet

## ⑩ Insertion of Cushion Pad

- Insertion of Cushion Pad (4 holes)
  - Insert cushion pads on the fixed anchors to attach pads to the wall.



## ⑪ Fixation of Product

- Fix the product to the anchor bolts on wall.
  - Install the product on the surface of wall so as not to create a large gap.
- Connect fixing nuts after inserting washer and then fasten the loose stopper nuts. (4holes)  
Apply lock paint after fastening nuts.



❖ Fix the product by holding the tub body on the back.

## ⑫-1 Connection of Inlet Hose – Regular Tap (Connector inlet valve)

- Turn off the tap and then disassemble the tap.
- Connect the Connector inlet valve to the water pipe and then reconnect the tap.
  - Insert rubber packing into Connector inlet valve and wrap the connection with Teflon tape to prevent leaks.
  - Excessive fastening may damage the rubber packing and cause leaks. The parts must be properly fastened.
- Adjust the length of inlet hose and then insert it for connection until the connector makes a snapping sound.
- Check for water leaks after installation.



[Tap Disassembly]



[Connector inlet valve Connection]



[Connection of Inlet Hose]

❖ Standard connector is designed to match the regular (small-size) water pipe.

## ⑫-2 Connection of Inlet Hose – Regular Tap (Adapter inlet valve)

- Connect a separate Adapter inlet valve, and then directly connect it to a water tap.

❖ Check for water leaks after installation



[HOOK TYPE]



[SCREW TYPE]

## ⑫-3 Connection of Inlet Hose – Cold/Hot Water (Connector inlet valve)

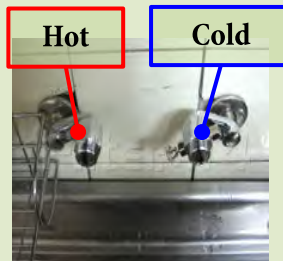
- Use a driver to disassemble the tap after turning it off.
- Insert rubber packing into the Connector inlet valve to connect it to the water pipe and then reconnect the tap.
  - Connect hot and cold Connector inlet valve discretely.  
(Connect the branching Connector to cold water pipe.)
  - Excessive fastening may damage the rubber packing and cause leaks.
- The parts must be properly fastened.
- Adjust the length of inlet hose and then insert it for connection until the connector makes a snapping sound.
- Check for water leaks after installation.



[Closing of Tap]



[Tap Disassembly]



[Connection of Cold/Hot Connector inlet valve]



[Connection of Inlet Hose]

❖ Medium, large, and royal Connector inlet valve are to be separately additional Sales



### ⑬ Test Operation

#### ▪ Test Method and Checkpoints

- Turn on the water supply valve and the wash
- Press the Start/Pause button after selecting Normal(or Cotton) with the Program button.
  - . At this stage, inspect the water supply valve, horizontal motor rotation, and check for water leaks.
- Press the Start/Pause button again to suspend the operation and then select Spin with the Program button for a spin cycle.
  - . At this stage, inspect the operation of water supply valve, noise from wiring and hoses, stability of fixing anchor bolts, and other possible defects and errors.

### ⑭ Arrangement of Hoses and Power Cord

- Adjust the length of hoses and power cords with elbows and connectors to prevent dangling and bending and then arrange them with molding cover.
- Wipe the attachment area for molding covers with a dry cloth before attachment.



- ❖ Straighten the drain hoses if available.
  - Frequent or excessive bending may lengthen the draining procedure or cause malfunctions.

[Installation: Upward power cord and downward hose]

### ⑮ Body Mounting

- Mount the body to the tub and fix it with screws at both top and bottom
- Inspect whether the assembly causes any wide gaps or improper connections.

- ❖ Examine whether the wires and hoses are properly fixed before mounting the body.

