



DISHWASHER

JWE-620UA-6B

INSTALLATION MANUAL

FOR QUALIFIED INSTALLER ONLY

9280VC10B (041111)

IMPORTANT

Only qualified service technicians should install, service and maintain the product. No installation, service or maintenance should be undertaken until the technician has thoroughly read this Installation Manual. Likewise, the owner/manager should not proceed to operate the product until the installer has instructed them on its proper operation. Failure to install, operate, and maintain the equipment in accordance with this manual may adversely affect safety, performance, component life, and warranty coverage.

Hoshizaki provides this manual primarily to assist qualified service technicians in the installation, maintenance, and service of the product.

Should the reader have any questions or concerns which have not been satisfactorily addressed, please call, write, or send an e-mail message to the Hoshizaki Technical Support Department for assistance.

HOSHIZAKI AMERICA, INC.
618 Highway 74 South
Peachtree City, GA 30269

Attn: Hoshizaki Technical Support Department

Phone: 1-800-233-1940 Technical Support
(770) 487-2331
Fax: 1-800-843-1056
(770) 487-3360
E-mail: techsupport@hoshizaki.com

Web Site: www.hoshizaki.com

NOTE: To expedite assistance, all correspondence/communication MUST include the following information:

- * Model Number _____
- * Serial Number _____
- * Complete and detailed explanation of the problem.

IMPORTANT

This manual should be read carefully before the product is installed and operated. Only qualified service technicians should install, service, and maintain the product. Read the warnings contained in this booklet carefully as they give important information regarding safety. Please retain this booklet for any further reference that may be necessary.

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Important Safety Information

Throughout this manual, notices appear to bring your attention to situations which could result in death, serious injury, or damage to the unit.

⚠ WARNING Indicates a hazardous situation which could result in death or serious injury.

CAUTION Indicates a situation which could result in damage to the unit.

IMPORTANT Indicates important information about the use and care of the unit.

⚠ WARNING

This product should be destined only to the use for which it has been expressly conceived. Any other use should be considered improper and therefore dangerous. The manufacturer cannot be held responsible for injury or damage resulting from improper, incorrect, and unreasonable use.

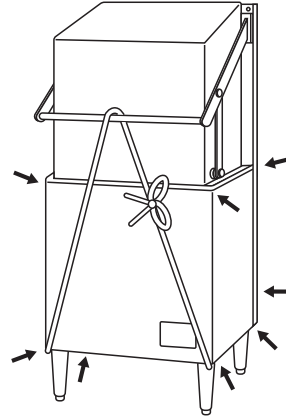
To reduce the risk of death, electric shock, serious injury, or fire, follow basic precautions including the following:

- Electrical connection must be hard-wired and must meet national, state, and local electrical code requirements. Failure to meet these code requirements could result in death, electric shock, serious injury, fire, or severe damage to equipment.
- This unit requires independent power supplies for the dishwasher and for the booster tank. See the nameplate for proper voltage and breaker/fuse sizes. Failure to use proper breakers or fuses can result in tripped breakers, blown fuses, or damage to existing wiring. This could lead to heat generation or fire.
- **THIS UNIT MUST BE GROUNDED.** Failure to properly ground this unit could result in death or serious injury.
- This unit should be disassembled or repaired only by qualified service personnel to reduce the risk of electric shock, injury, or fire.
- Do not make any alterations to the unit. Alterations could result in electric shock, injury, fire, or damage to the unit.

1. MOVING

⚠ WARNING

When handling the unit (unloading from pallet, moving, installing), do not hold the door or handle, or the door will open. Hold the parts indicated by arrows only.



Do not remove the shipping band securing the door until the end of installation.

⚠ WARNING

1. Do not lay down the unit. The door may open and cause injury.
2. This is a heavy unit. Handle and move it with care to prevent injury.
3. When unpacking or moving the unit, be careful not to damage the parts on the bottom.

2. INSTALLATION

⚠ WARNING

1. This product must be installed in accordance with applicable national, state, and local regulations.
2. To prevent possible water leak, electric shock or fire, the installation must be carried out by qualified personnel according to this manual. On completion of the installation, start up the unit to check for any abnormalities, and instruct the user on how to use and maintain the unit in accordance with the instruction manual.
3. This unit is not intended for outdoor use. Exposure to rain may cause electric leakage or shock.
4. To prevent fire, electric shock, injury or water leak, this unit should be

disassembled, repaired or modified only by qualified service personnel.

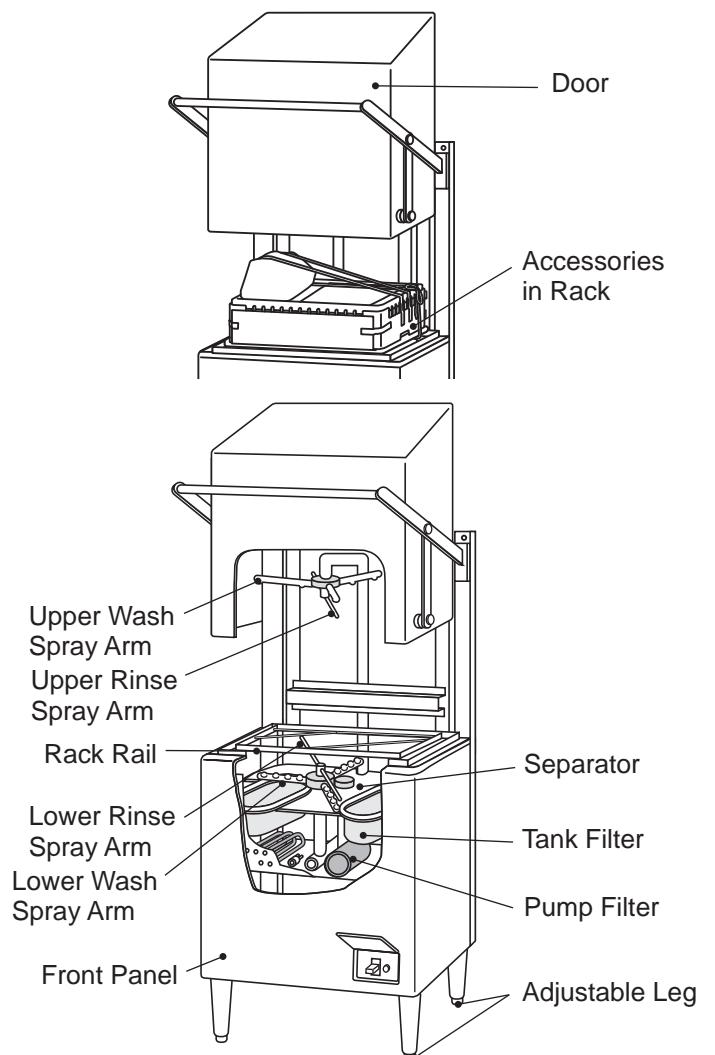
5. The location should provide a firm and level foundation for the unit to avoid the risk of water leaks or injury caused by overturn or fall.
6. Avoid a site where dripping is not allowed. The unit may drip water onto the floor.
7. Ambient temperature should be within 41 to 95°F (5 to 35°C). Operation of the unit for extended periods outside of this normal temperature range may affect performance.
8. Do not install the unit where there is a risk of freezing. If there is a possibility that the ambient temperature may fall below 32°F (0°C) and freeze the unit, be sure to drain the unit. The water supply line could be damaged and leak water, resulting in damage to the surrounding property.
9. Install the unit where high temperatures and steam are allowed. During operation, the surface temperature will reach around 176°F (80°C), and steam will come out from between the door and body.

[a] SHIPPING TAPE

- 1) Remove the shipping band from the door.
- 2) Remove the shipping tape from the exterior.
- 3) Remove the shipping band from the rack and package of accessories.
- 4) Remove the shipping tape from the rack rail.
- 5) Remove the shipping tape from the upper and lower spray arms.
- 6) Remove the shipping tape from the tank filters and separator. Take out the tank filters.

IMPORTANT

Do not remove the labels.



[b] CHECKS BEFORE INSTALLATION

- 1) Check the exterior including the front panel and door for damage.
- 2) Check the internal parts including the spray arms and filters for damage or clogging.
- 3) The accessories except the rack are provided in the package. Check that all the accessories listed in the instruction manual (see “1. [c] ACCESSORIES”) are included and not damaged.

IMPORTANT

1. Visually inspect the exterior of the shipping container and immediately report any damage to the carrier. Upon opening the container, any concealed damage should also be immediately reported to the carrier.
2. The instruction manual should be handed over to the user.

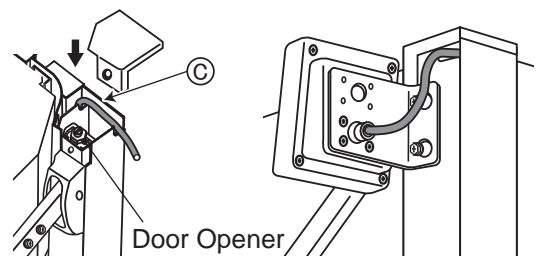
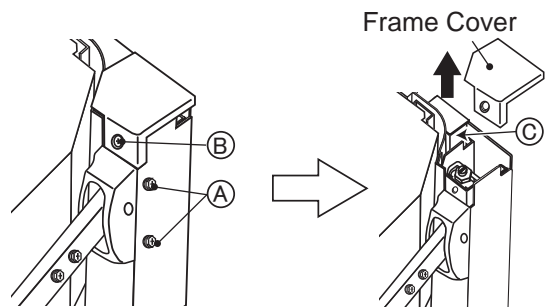
[c] PROTECTIVE FILM

Be sure to remove the protective plastic film from the door and other parts which may become hot during operation. Otherwise the adhesive on the film will make the stainless steel exterior look unclean.

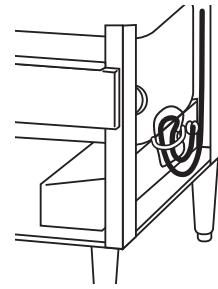
[d] OPERATION PANEL

Be sure to attach the operation panel before installing the unit. It is prepared at the factory to be attached to the right side of the unit.

- 1) Loosen screws A on the pillar at the right side of the body (no need to remove). Then, remove screw B at the front of the pillar to take off the frame cover.
- 2) Insert the operation panel cable into the frame (C), and route it into the machine compartment. Then, attach the operation panel. Be careful not to let the wiring touch the door opener.
- 3) Remove the front panel, and pull the cable from the back of the machine compartment.
- 4) Remove the plastic bag from the operation panel connection cable coming out of the control box, and connect these cables.

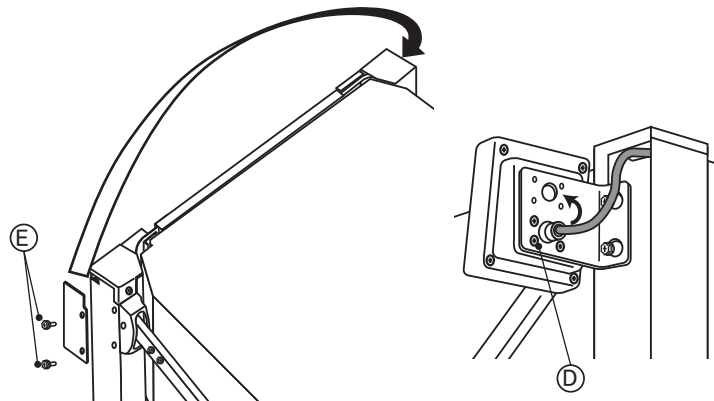


- 5) Cover the cable connection with the plastic bag, and tie it upward as illustrated. Refit the front panel in its correct position.



IMPORTANT

To attach the operation panel to the left side, remove screws D from the operation panel, turn the bracket upside down, and reattach it using the other holes. Remove screws E and the cover, then attach them to the right side pillar. Make sure that the wiring inside the machine compartment is clear of all moving parts (i.e., fan motor).



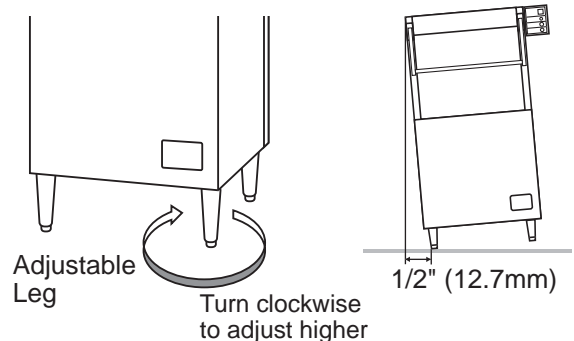
[e] CONNECTION TO A DISHTABLE

CAUTION

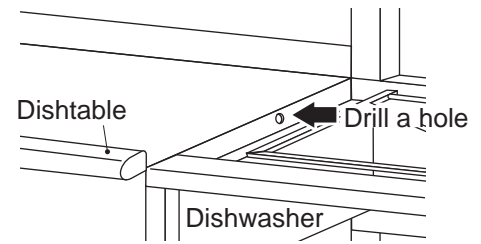
When connecting a dishtable, apply silicone sealant to a thickness of at least 1/2" (12.7 mm) to the end of the mounting screw to prevent water leaks resulting in electric leakage or shock.

A dishtable facilitates loading and unloading of the rack.

- 1) Remove the side panel where the dishtable is to be installed.
- 2) Use the adjustable legs of the dishtable and dishwasher to level them in both the left-to-right and the front-to-rear directions. The unit must not tilt more than 1/2" (12.7 mm) as shown in the illustration.



- Hook the dishtable on the wash tank. Drill a hole in the wash tank to match the mounting hole in the dishtable.

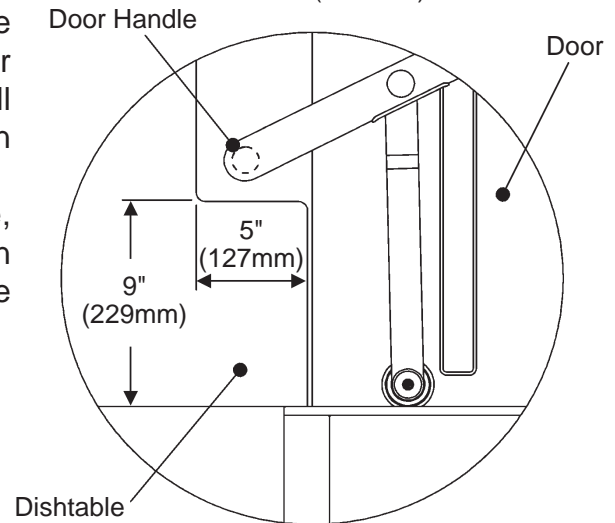


- Secure the dishtable to the dishwasher with a screw. Apply silicone sealant to the screw threads as shown on the right and between the dishtable and the wash tank.



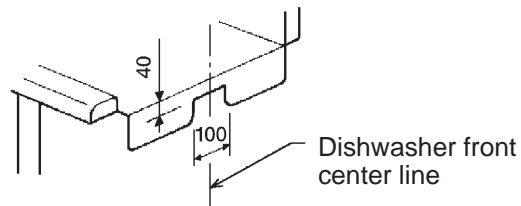
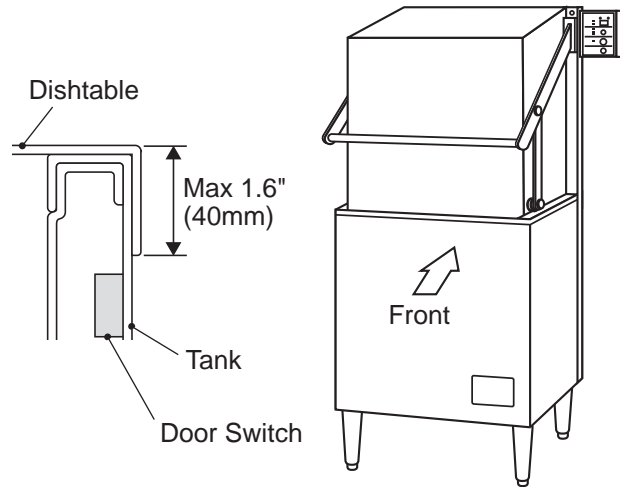
- Refit the side panel in its correct position.

- For corner installation, if the side of the dishtable located at the front of the dishwasher is 9" (229 mm) or higher, the door handle will hit the dishtable. In this case, make a notch in the dishtable as shown on the right. Make additional adjustments to the dishtable, if necessary, to improve the tightness between the dishtable and the dishwasher or to facilitate loading and unloading of the rack.



IMPORTANT

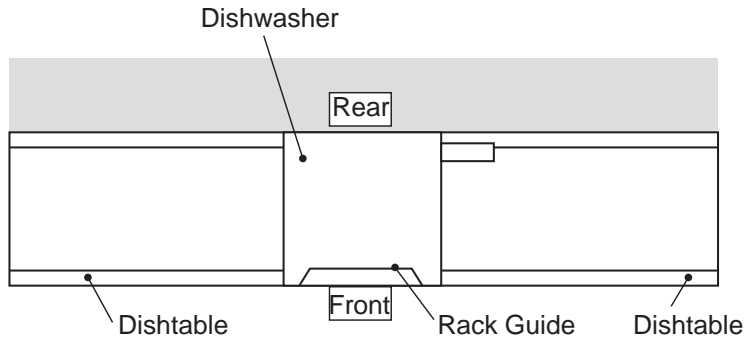
- To prevent possible corrosion, do not leave any shavings after drilling the hole in the wash tank.
- To connect a dishtable to the front of the dishwasher, keep the hook on the wash tank within 1.6" (40 mm) from the rim. Otherwise the built-in door switch may not operate properly. If this is not practical, make a notch as shown on the right.
- See "DISHTABLE REFERENCE DRAWINGS" D05003, D05004, D05005, and D05006 at the end of the service manual (80VC-782) for details.



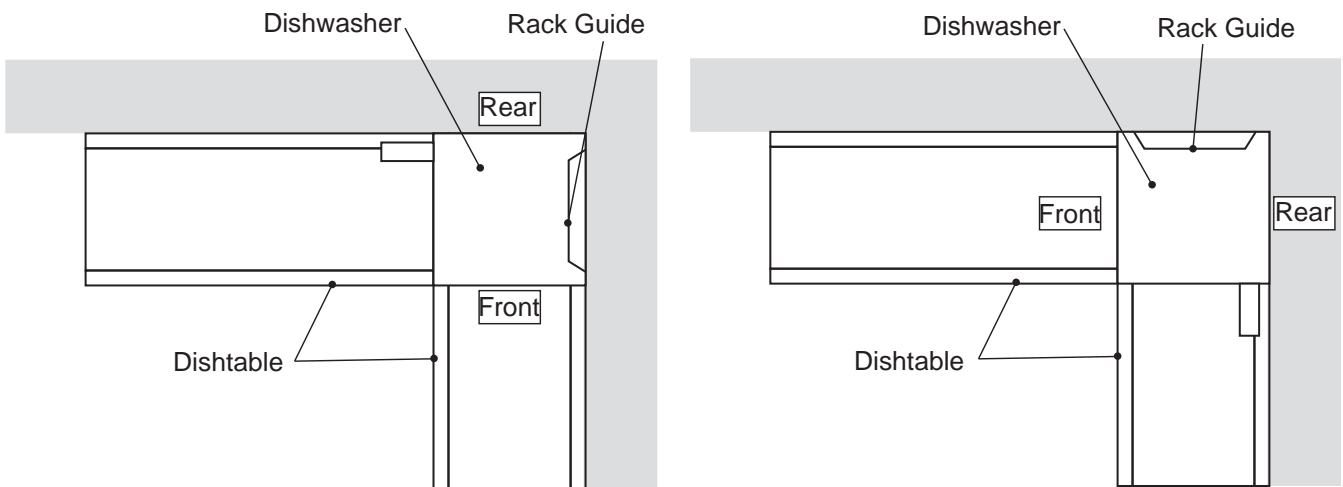
[f] RACK GUIDE

The rack guide helps ease the load and unload the rack smoothly. It is provided in the package of accessories together with the securing bolts. The rack guide location depends on the installation conditions.

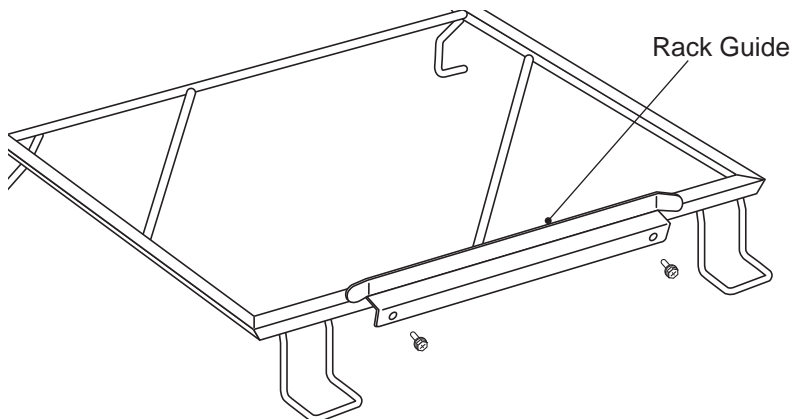
Straight Installation



Corner Installation



Secure the rack guide tightly with the two hexagon bolts.



3. VENTILATION

WARNING

1. Installation must be in accordance with applicable national, state, and local regulations.
2. If an exhaust hood is required to discharge steam from the dishwasher, it should provide a minimum 450 CFM and be a listed and labeled factory-built commercial exhaust hood tested in accordance with UL Standard 710 by a nationally recognized testing laboratory.
It must be installed according to the terms of its listing and the manufacturer's installation instructions.
3. To use a gas water heater, thoroughly read its instruction manual. Ensure adequate air intake and exhaust systems and exhaust hoods in accordance with applicable national, state, and local regulations for the type and capacity of the heater to prevent dangerous conditions due to lack of oxygen and toxic gas generation.
Only qualified service personnel should install the above systems.

4. WATER SUPPLY AND DRAIN CONNECTIONS

WARNING

Plumbing connections must comply with applicable sanitary, safety and plumbing codes.

CAUTION

To prevent water leaks resulting in damage to the surrounding property, make proper water supply and drain connections according to this manual.

[a] WATER HEATER CONNECTION

Make the water heater connection according to its instruction manual.

[b] PRESSURE REDUCING VALVE

Keep the water supply pressure within 10 to 70 PSIG.

If the water pressure is too high, a pressure reducing valve (not supplied) must be installed in the water line just ahead of the dishwasher.

CAUTION

The pressure reducing valve must have a relief by-pass. Failure to use the proper type of pressure reducing valve may result in damage to the unit.

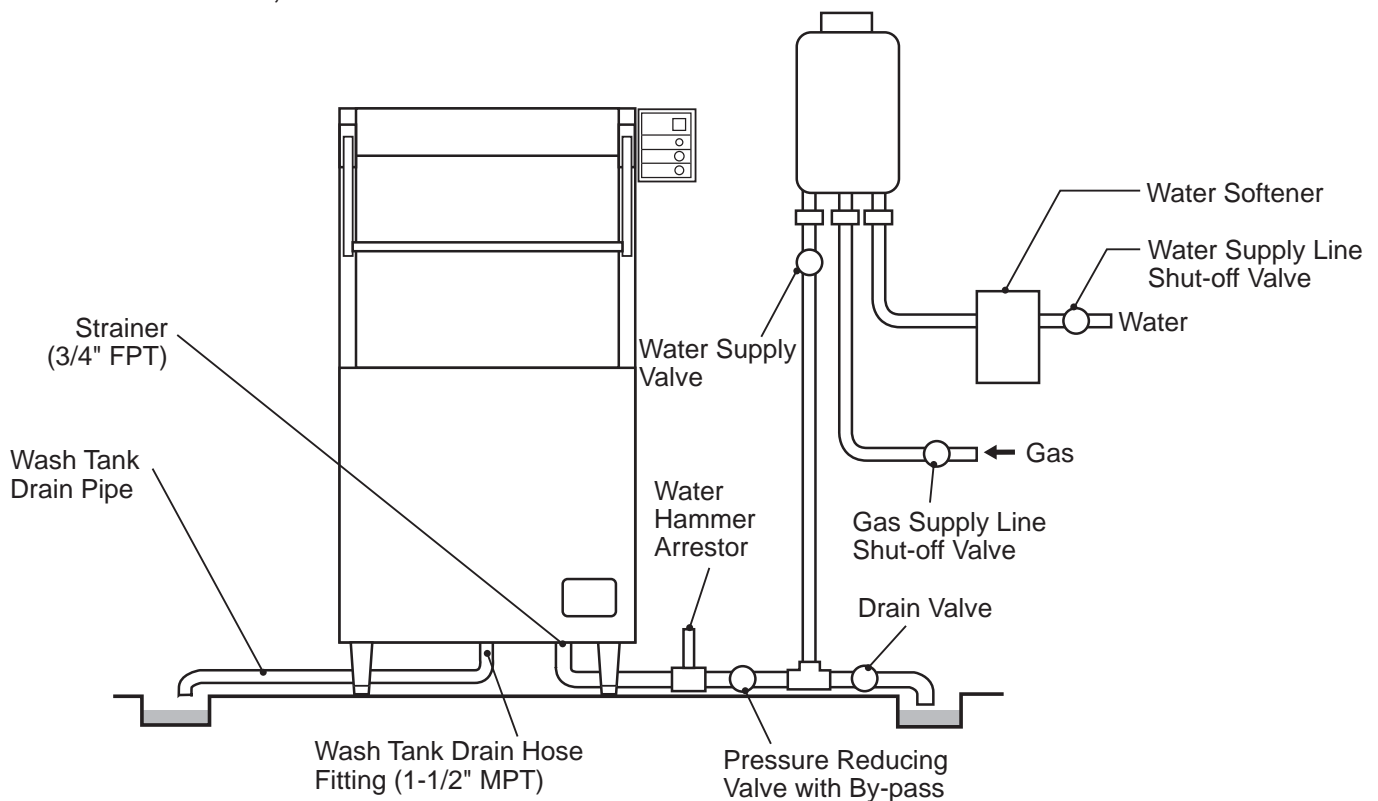
[c] WATER SOFTENER

If water hardness exceeds 4 grains per gallon, a water softener (not supplied) must be installed in the primary circuit (water supply inlet) of the water heater.

IMPORTANT

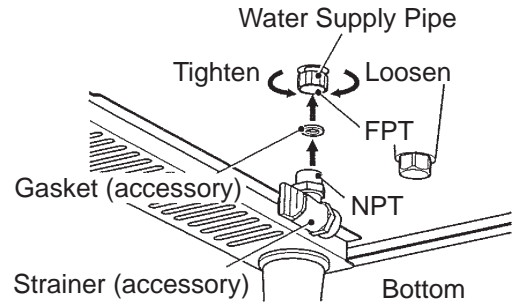
The recommended water hardness of not more than 4 grains per gallon is for the dishwasher. If the required water hardness for the water heater is lower, meet that requirement.

- * External filters and strainers may be required depending on water quality. Contact your local Hoshizaki distributor for recommendations.
- * Sediment, silica, chlorides or other dissolved solids may lead to a recommendation for particulate filtration or reverse osmosis treatment.
- * If an inspection of the dishwasher or booster heater reveals lime build-up after the equipment has been in service, in-line water treatment should be considered, and, if recommended, should be installed and used as directed.



[d] STRAINER

Attach the strainer (accessory) to the water supply pipe on the bottom front of the unit. To prevent water leaks, be sure to insert the rubber gasket (accessory) between the water supply pipe nut and the strainer.



[e] HOT WATER SUPPLY CONNECTION

⚠ WARNING

To reduce the risk of burns, the hot water supply line must be thermally insulated. Hot water around 167°F (75°C) will flow inside.

- * Where there is a risk of water hammer, it is recommended to install a water hammer arrestor between the dishwasher and water heater.
- * Required incoming water temperature:

Incoming Water Temperature		
Minimum	Recommended	Maximum
110°F (43°C)	140°F (60°C)	167°F (75°C)

If water is supplied at a temperature below 110°F (43°C), the dishwasher cannot maintain the proper rinse water temperature and may require a longer wash cycle time than the 53 second cycle. In such case, consult with an authorized Hoshizaki service company.

Wash Temperature		Rinse Temperature	
Minimum	Recommended	Minimum	Recommended
150°F (66°C)	150°F (66°C)	180°F (82°C)	180°F (82°C)

- * Optional connection for low temperature conditions:
Where there is a risk of freezing, install a drain valve (shut-off valve) between the water supply valve and dishwasher.

IMPORTANT

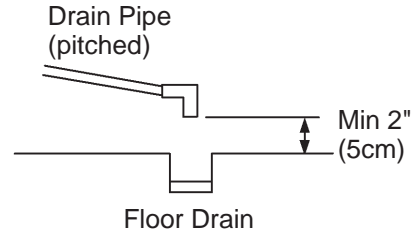
When an instantaneous water heater is used, it must be an exclusive type for a dishwasher and provided with an end stop system.

[f] DRAIN CONNECTION (WASH TANK DRAIN)

CAUTION

To ensure proper draining, do not route the drain pipe where it can be stepped on.

* Drain line should be pitched (1/4" per foot) to the floor drain. An air gap of a minimum of 2 vertical inches (5 cm) should be between the end of the drain pipe from the dishwasher and the floor drain.



* If a grease trap is required in the drain line by regulations, check that it is present at the time of installation.

5. ELECTRICAL CONNECTION

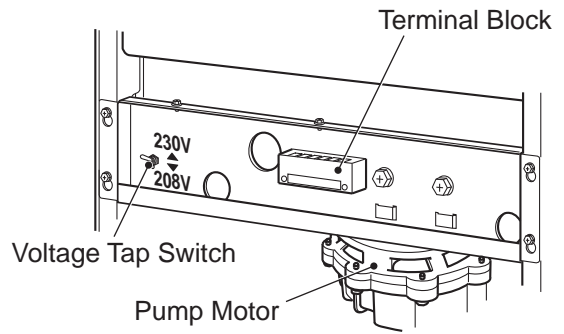
WARNING

1. Electrical connection must be hard-wired and must meet national, state, and local electrical code requirements. Failure to meet these code requirements could result in death, electric shock, serious injury, fire, or extensive damage to equipment.
2. This unit requires an independent power supply. See the nameplate for proper voltage and breaker/fuse size. Failure to use a proper breaker or fuse can result in a tripped breaker, blown fuses, or damage to existing wiring. This could lead to heat generation or fire.
3. **THIS UNIT MUST BE GROUNDED.** Failure to properly ground this unit could result in death or serious injury.
4. Make sure the power supply is off before making any electrical connections to prevent possible electric shock. Lockout/Tagout to prevent the power from being turned back on inadvertently.

Electrical Specifications (Also Refer to the Dishwasher Nameplate)		
AC Supply Voltage	Maximum Breaker/Fuse Size	Minimum Circuit Ampacity
208 - 230V / 60Hz / 3Ph	50A	50A

* Usually an electrical permit and services of a licensed electrician are required.

- * The maximum allowable voltage variation is ± 10 percent of the nameplate rating.
- * The voltage tap switch in the unit must be positioned to match incoming voltage at startup (factory default: 230V).
- * The opening for the power supply connection is 1.11" DIA to fit a 3/4" trade size conduit.



- 1) Remove the front panel.
- 2) Remove the 3 screws securing control box cover (A), then remove the cover.
- 3) Connect the ground wire to the ground screw in the base.
- 4) Route the 3 power wires through the 27.5" (700 mm) UL tube provided and then through the strain relief in the control box next to the power switch (GFCI).

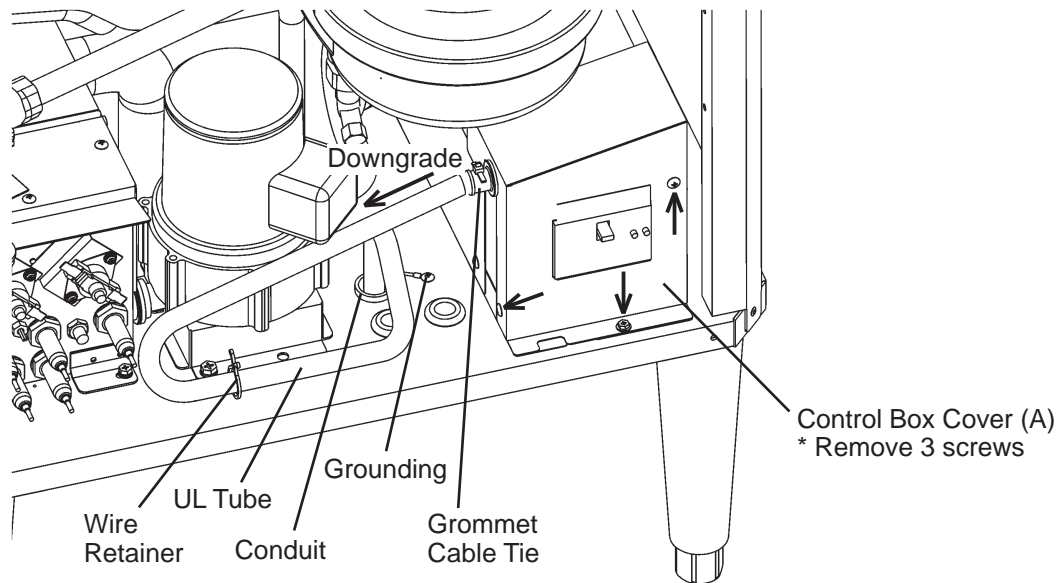
⚠ WARNING

The UL tube must slope downward from the strain relief to prevent entrance of water through the strain relief into the control box.

IMPORTANT

Do not cut the UL tube. The extra length allows the control box to be pulled out for service after installation.

- 5) Securely connect M8 ring terminals to the ends of the wires, then connect the ring terminals to the terminals on the power switch (GFCI).
- 6) If the control box has been moved, carefully slide the control box into its correct position while taking care not to catch the wires. Make sure the rear of the control box has engaged the tab in the base.
- 7) Make sure the strain relief is in its proper position, then secure control box cover (A) using the 3 screws.
- 8) Use the wire retainer in front of the rinse pump motor to secure the UL tube.
- 9) Reattach the front panel.



6. PHASE REVERSAL CHECK

The unit is provided with a phase reversal relay to prevent operation in case of phase reversal. To check for phase reversal, follow the steps below.

- 1) Make sure all wiring connections have been properly made. For details, see “5. ELECTRICAL CONNECTION”.
- 2) Turn on the power supply, then move the power switch (GFCI) to the “ON” position.
- 3) If the display is blank, move the power switch (GFCI) to the “OFF” position, turn off the power supply, then skip to the next section. If the display shows “H7”, move the power switch (GFCI) to the “OFF” position, then proceed to step 4.
- 4) Turn off the power supply. Lockout/Tagout to prevent the power from being turned back on inadvertently.
- 5) Swap 2 of the power wires attached to the power switch (GFCI).
- 6) Turn the power supply back on, then move the power switch (GFCI) to the “ON” position. Confirm that the display does not show “H7”.
- 7) Move the power switch (GFCI) to the “OFF” position, then turn off the power supply.

7. DETERGENT/RINSE AID FEEDER

⚠ WARNING

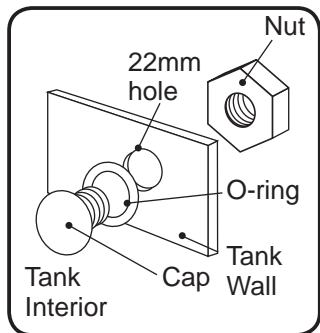
1. Electrical connection must be hard-wired and must meet national, state, and local electrical code requirements. Failure to meet these code requirements could result in death, electric shock, serious injury, fire, or extensive damage to equipment.
2. **THIS UNIT MUST BE GROUNDED.** Failure to properly ground this unit could result in death or serious injury.

This dishwasher must be operated with an automatic detergent feeder and an automatic rinse aid feeder, including a visual means to verify that detergents/rinse aids are delivered or to signal if detergents/rinse aids are not available for delivery.

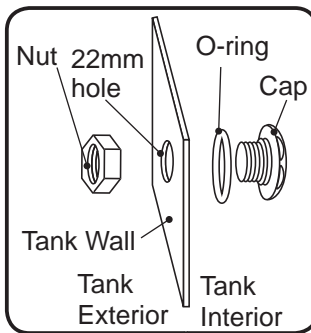
Any feeders provided by a detergent supplier must be installed in the location shown below. For electrical and plumbing connections, follow the instructions in this manual and the manual supplied with the feeder. Consult with the detergent supplier or an authorized Hoshizaki service company for further details.

The dishwasher uses 0.53 gallons of rinse water per rack. This information is use when setting a detergent/rinse aid pump.

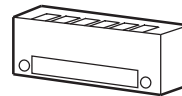
Concentration Sensor



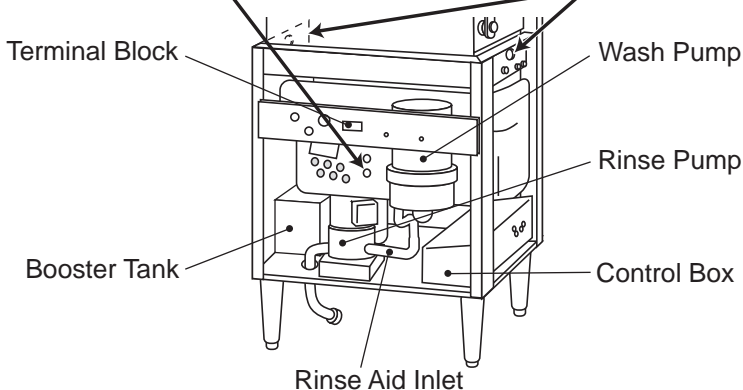
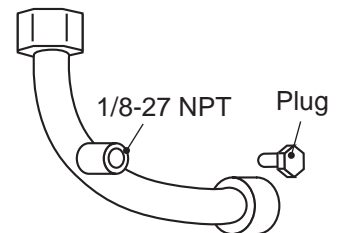
Detergent Inlet (one on each side)



Terminal Block*



Rinse Aid Inlet

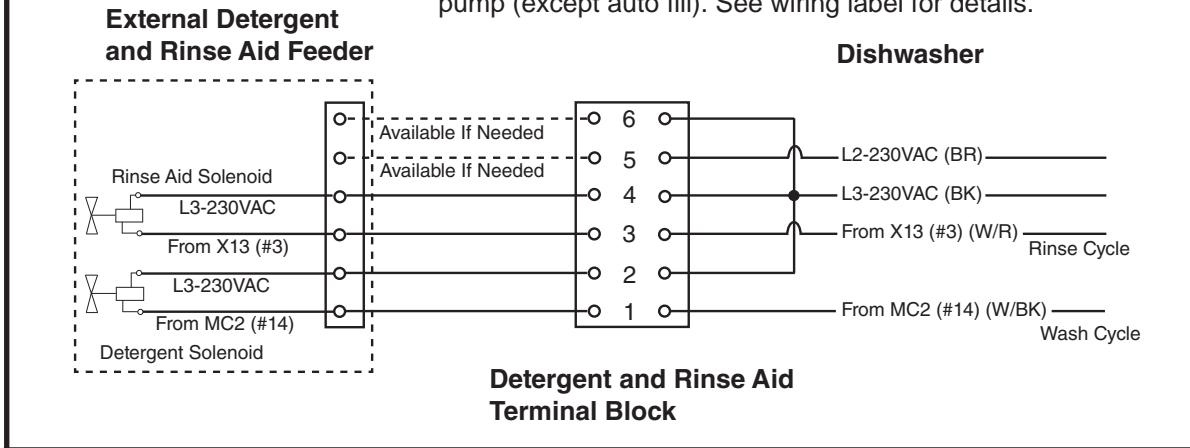


* Connect external detergent and rinse aid feeders to this terminal block. Use insulated terminals. Power supply for the detergent and rinse aid feeders is available with this terminal block. For details, see the wiring diagram below.

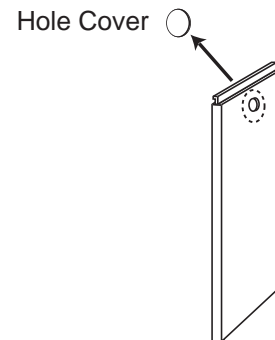
IMPORTANT

1. Be sure to use detergent and rinse aid feeders with protective fuses.
2. Ensure the power supply capacity of 208 to 230VAC, 1A or less, and use insulated terminals to connect the feeders to the terminal block.

* MC2 is synchronized with wash pump and X13 with rinse pump (except auto fill). See wiring label for details.



If a hole is necessary in the side panel to allow the detergent inlet to the wash tank, take off the side panel, and remove the aluminum foil tape and hole cover.



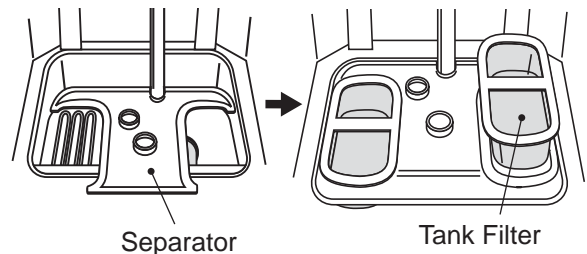
8. TRIAL RUN

⚠ WARNING

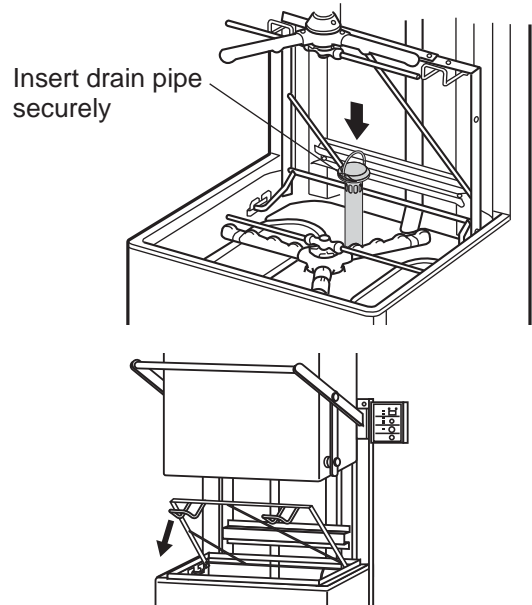
To reduce the risk of electric shock, do not touch the attachment plug, power switch (GFCI), or other electrical parts with damp hands.

[a] CHECKS BEFORE TRIAL RUN

- 1) Check that the door, upper and lower wash/rinse spray arms, power switch cover, and other moving parts move smoothly.
- 2) Fit the separator in the wash tank, and install the tank filters.



- 3) Insert the drain pipe securely.
- 4) Lower the rack rail. With the rack rail lifted up, the door cannot be closed and the unit will not operate.



[b] PREPARING HOT WATER SUPPLY

- 1) If the optional drain valve for low temperature conditions is installed, close the drain valve provided to prevent freezing.
- 2) Open the water supply valve.
- 3) Follow the instructions in the water heater's instruction manual.

[c] FINAL CHECKS

- 1) Is an independent three-phase 208 to 230V disconnect used?
- 2) Is the voltage tap switch behind the front panel set to the proper voltage?
- 3) Is the power cord connected securely to the disconnect?
- 4) Has a proper ground connection been made?
- 5) Have all electrical, hot water, drain, and gas connections been made? Do electrical, hot water, drain, and gas connections meet all national, state, and local code and regulation requirements?
- 6) Are the gas and water supplies to the water heater turned on?
- 7) Turn on the water heater, move the power switch (GFCI) of the dishwasher to the "ON" position, then press the "ON/OFF" button on the operation panel. Has the display lit up?
 - * If yes, the auto fill cycle begins when the door is closed.

- 8) Is the display showing “H7”? If yes, correct the reverse phase connection according to “6. PHASE REVERSAL CHECK”.
- 9) Has the operation (auto fill, wash, rinse, mode selection) been checked against the instruction manual?
- 10) Remove the front panel. Make sure there are no water leaks in the machine compartment.
- 11) Does a sufficient amount of detergent and rinse aid remain in the tanks? Are they properly supplied to the dishwasher?
- 12) Has the user been instructed on proper operation of the dishwasher?
- 13) Have the instruction and installation manuals been given to the user?

[d] AFTER TRIAL RUN

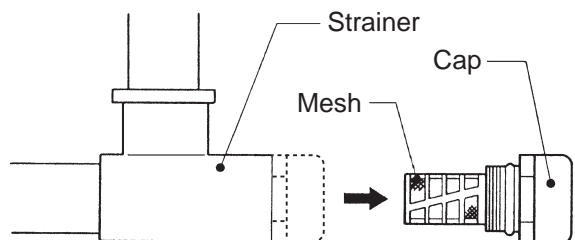
⚠ WARNING

When cleaning the strainer at the end of installation, wait until the surface temperature falls below 104°F (40°C) to avoid the risk of burns.

CAUTION

Do not install the unit where there is a risk of freezing. If there is a possibility that the ambient temperature may fall below 32°F (0°C) and freeze the unit, be sure to drain the unit. The water supply line could be damaged and leak water, resulting in damage to the surrounding property.

- 1) Press the “ON/OFF” button, and move the power switch (GFCI) to the “OFF” position.
- 2) Pull out the drain pipe to drain wash water from the wash tank.
- 3) Turn off the water heater according to its instruction manual.
- 4) Clean the strainer to remove any debris from the water supply and drain connections. To remove the strainer, turn the cap counterclockwise.
- 5) Use a dry soft cloth to wipe moisture off the exterior and washing compartment.



[e] ADJUSTMENT

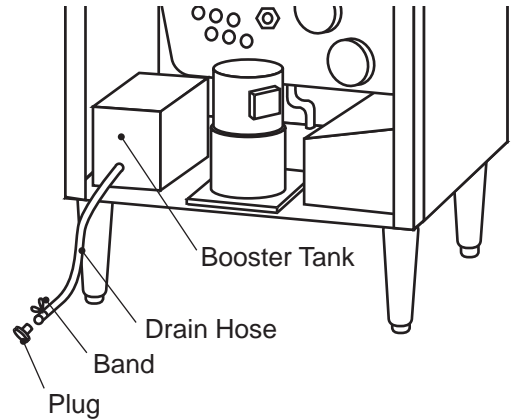
If any adjustment is required to the wash or rinse cycle time or temperature setting, contact an authorized Hoshizaki service company.

9. RELOCATION

⚠ WARNING

1. Make sure the power supply is off before making any electrical connections to prevent possible electric shock. Lockout/Tagout to prevent the power from being turned back on inadvertently.
2. When draining the booster tank and hot water supply line at the time of relocation, wait until the surface temperature falls below 104°F (40°C) to avoid the risk of burns.

- 1) Shut down and clean the unit according to the instruction manual.
- 2) Ask the detergent supplier to treat the detergent and rinse aid tanks and pipes.
- 3) To drain the booster tank, remove the front panel, take out the end of the drain hose, and remove the plug.
- 4) Disconnect the electrical, water supply and drain connections.
- 5) Move the unit with care not to damage it.
- 6) Reinstall the unit properly according to this installation manual.





DISHWASHER

JWE-620UA-6B

INSTRUCTION MANUAL

FOR END USER

9180VC10B (041111)

IMPORTANT

Only qualified service technicians should install, service and maintain the product. No installation, service or maintenance should be undertaken until the technician has thoroughly read this Instruction Manual. Likewise, the owner/manager should not proceed to operate the product until the installer has instructed them on its proper operation. Failure to install, operate, and maintain the equipment in accordance with this manual may adversely affect safety, performance, component life, and warranty coverage.

Hoshizaki provides this manual primarily to assist qualified service technicians in the installation, maintenance, and service of the product.

Should the reader have any questions or concerns which have not been satisfactorily addressed, please call, write, or send an e-mail message to the Hoshizaki Technical Support Department for assistance.

HOSHIZAKI AMERICA, INC.
618 Highway 74 South
Peachtree City, GA 30269

Attn: Hoshizaki Technical Support Department

Phone: 1-800-233-1940 Technical Support
(770) 487-2331
Fax: 1-800-843-1056
(770) 487-3360
E-mail: techsupport@hoshizaki.com

Web Site: www.hoshizaki.com

NOTE: To expedite assistance, all correspondence/communication MUST include the following information:

- * Model Number _____
- * Serial Number _____
- * Complete and detailed explanation of the problem.

IMPORTANT

This manual should be read carefully before the product is installed and operated. Only qualified service technicians should install, service, and maintain the product. Read the warnings contained in this booklet carefully as they give important information regarding safety. Please retain this booklet for any further reference that may be necessary.

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Important Safety Information

Throughout this manual, notices appear to bring your attention to situations which could result in death, serious injury, or damage to the unit.

⚠ WARNING Indicates a hazardous situation which could result in death or serious injury.

CAUTION Indicates a situation which could result in damage to the unit.

IMPORTANT Indicates important information about the use and care of the unit.

⚠ WARNING

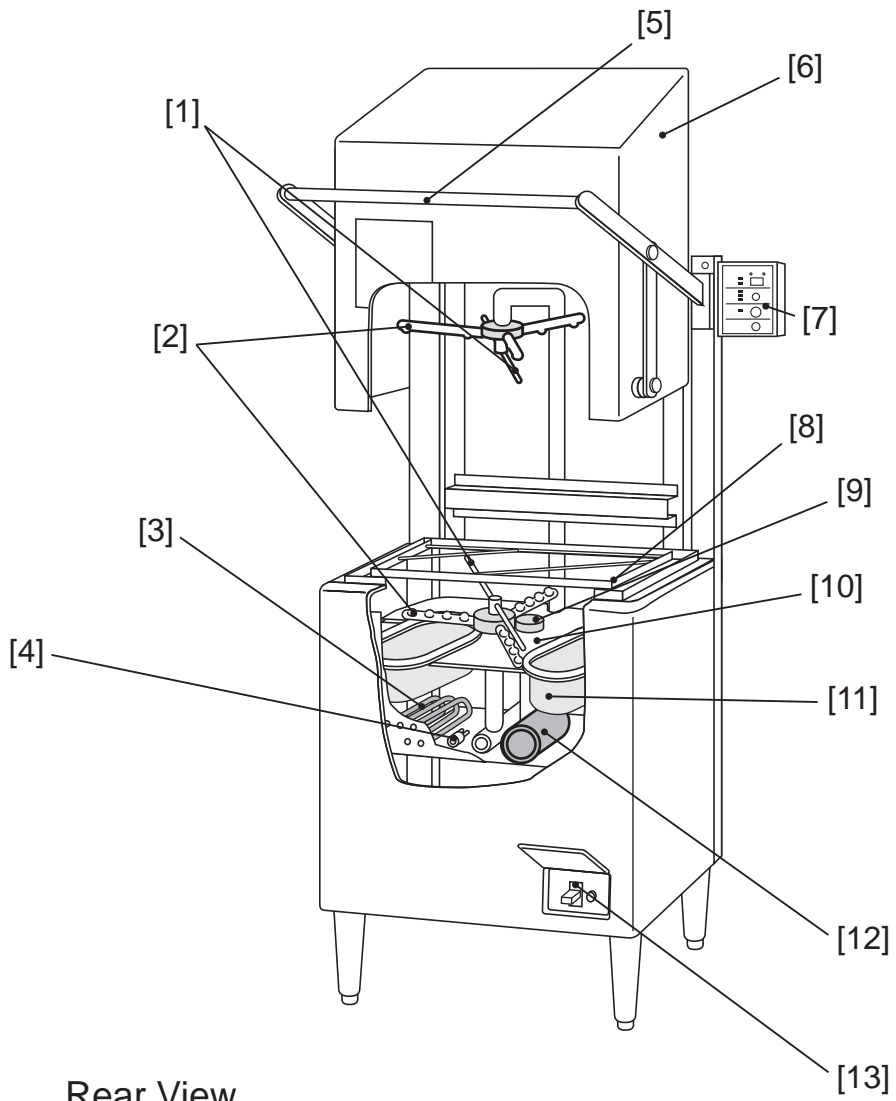
This product should be destined only to the use for which it has been expressly conceived. Any other use should be considered improper and therefore dangerous. The manufacturer cannot be held responsible for injury or damage resulting from improper, incorrect, and unreasonable use.

To reduce the risk of death, electric shock, serious injury, or fire, follow basic precautions including the following:

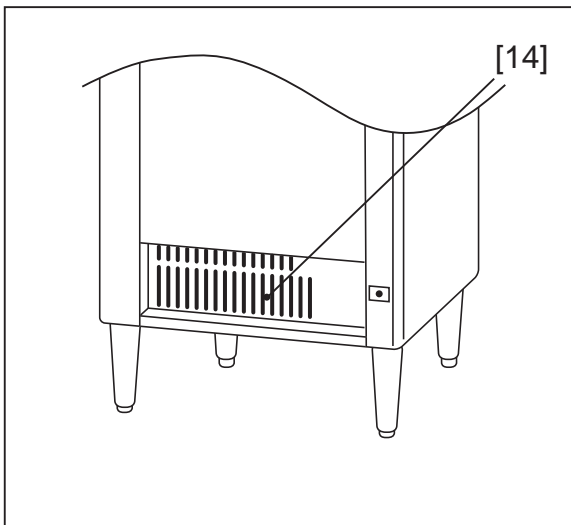
- Electrical connection must be hard-wired and must meet national, state, and local electrical code requirements. Failure to meet these code requirements could result in death, electric shock, serious injury, fire, or severe damage to equipment.
- This unit requires independent power supplies for the dishwasher and for the booster tank. See the nameplate for proper voltage and breaker/fuse sizes. Failure to use proper breakers or fuses can result in tripped breakers, blown fuses, or damage to existing wiring. This could lead to heat generation or fire.
- **THIS UNIT MUST BE GROUNDED.** Failure to properly ground this unit could result in death or serious injury.
- This unit should be disassembled or repaired only by qualified service personnel to reduce the risk of electric shock, injury, or fire.
- Do not make any alterations to the unit. Alterations could result in electric shock, injury, fire, or damage to the unit.

1. CONSTRUCTION

[a] GENERAL

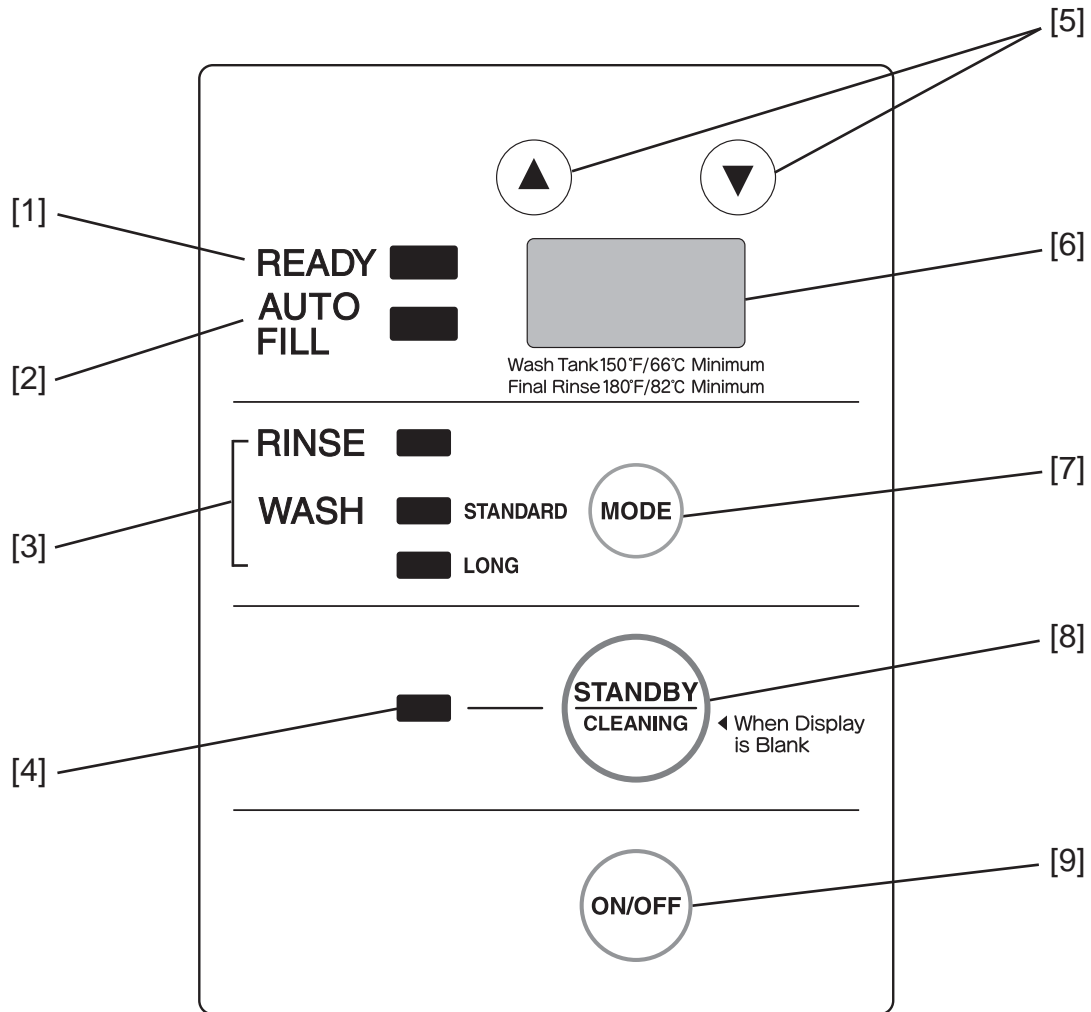


Rear View



- [1] Upper Rinse Spray Arm, Lower Rinse Spray Arm
Rotates and sprays rinse water onto dishes to rinse off detergent.
- [2] Upper Wash Spray Arm, Lower Wash Spray Arm
Rotates and sprays wash water onto dishes to remove stains.
- [3] Heater
Keeps wash water at a proper temperature.
- [4] Water Level Sensor
Detects wash water level.
- [5] Handle
- [6] Door
- [7] Operation Panel
See “[b] OPERATION PANEL”.
- [8] Rack Rail
- [9] Drain Pipe
Pull out to drain.
- [10] Separator
- [11] Tank Filter
Separates wash water and scraps.
- [12] Pump Filter
Prevents scraps from being drawn into the pump.
- [13] Power Switch (Ground Fault Circuit Interrupter)
Move the lever to start up or shut down the unit. Automatically turns off the power in case of a ground fault.
- [14] Vent

[b] OPERATION PANEL



[1] "READY" Lamp
Lights up when the auto fill cycle completes and the dishwasher is ready to wash.

[2] "AUTO FILL" Lamp
Flashes during the auto fill cycle, and goes off at the end of the cycle.

[3] Mode Lamps
Light up to indicate the selected operation mode, and flash during operation.

[4] Standby Lamp
Lights up when the dishwasher is in the standby mode. The unit will not start even when the door is closed with this lamp on. See "11. STANDBY/CLEANING BUTTON".

[5] Up Button, Down Button

▲ Indicates the total number of operation in six digits by two digits each time.

Example: 123,456 times are indicated by 

▼ Press to indicate rinse water temperature instead of wash water temperature while the dishwasher is on standby.

Service personnel also use these buttons to change the controller settings.

[6] Display

Indicates wash water temperature in wash cycle, rinse water temperature in rinse cycle, and error codes in case of trouble. See “20. TROUBLESHOOTING”.

[7] “MODE” Button

Press to change the selected operation mode. See “6. WASH AND RINSE”.

[8] “STANDBY/CLEANING” Button

Press to make the dishwasher inoperable even when the door is closed. See “11. STANDBY/CLEANING BUTTON”.

Press and hold to start self-cleaning with the “ON/OFF” button off. See “16. SELF-CLEANING”.

[9] “ON/OFF” Button

Turns on/off the power for operation.

[c] ACCESSORIES

Instruction manual x 1

Universal rack x 1

Installation manual x 1

Maintenance sheet x 1

Required for installation:

Operation panel x 1

Screw - bolt (stainless steel 5x12) x 2

Plate - rack guide x 1

Inlet water strainer & gasket x 1

2. CHECKS BEFORE OPERATION

WARNING

1. To prevent possible water leak, electric shock or fire, the installation must be carried out by qualified personnel.
2. To use a gas water heater, thoroughly read its instruction manual. Ensure adequate air intake and exhaust systems and exhaust hoods in accordance with applicable laws for the type and capacity of the heater to prevent dangerous conditions due to lack of oxygen and toxic gas generation.

[a] CHECKS AFTER INSTALLATION

- * In the presence of the installer, check for proper installation according to the installation manual provided.
- * Receive the installation manual from the installer, and keep it for later reference.

[b] WATER REQUIREMENTS

- * Proper water quality can improve warewashing performance by reducing spotting, lowering chemical supply costs, improving productivity and extending equipment life. Local water conditions vary. The recommended proper water treatment for effective and efficient use of this equipment will also vary depending on the local water conditions. Ask your municipal water supplier for details about local water specifics prior to installation.
- * Recommended water hardness is not more than 4 grains of hardness per gallon. Chlorides must not exceed 50 parts per million. Water hardness above 4 grains per gallon should be treated by a water softener or in-line treatment. Water treatment has been shown to reduce costs associated with machine cleaning, reduce the need for deliming the dishwasher, reduce detergent usage and reduce corrosion of metallic surfaces in the internal booster tank and dishwasher.
- * Sediment, silica, chlorides or other dissolved solids may lead to a recommendation for particulate filtration or reverse osmosis treatment.
- * If an inspection of the dishwasher or internal booster tank reveals lime build-up after the equipment has been in service, in-line water treatment should be considered, and, if recommended, should be installed and used as directed. Contact an authorized Hoshizaki service company for specific recommendations.

[c] CHECKS BEFORE OPERATION

- * Ambient temperature should be within 41 to 95°F (5 to 35°C). Operation of the unit for extended periods outside of this normal temperature range may affect performance.

⚠ WARNING

To avoid the risk of corrosion, clogging and health problems, be sure to use potable water.

- * To prevent water leaks resulting in damage to the surrounding property, keep the water supply pressure within 10 to 70 PSIG. If the water pressure is too high, a pressure reducing valve (option) must be installed according to the water heater's instruction manual.

- * The power supply voltage and capacity must be as follows:

Power supply voltage:	208 - 230V / 60Hz / 3Ph
Operating limits:	187 - 253V
Maximum breaker/fuse size:	50A
Minimum circuit ampacity:	50A

- * The wash compartment has been cleaned before shipping. But clean it again before starting up the unit, and check for proper installation of each part. See “15. DAILY MAINTENANCE”.

- * Check the electrical, water, and drain connections before starting up the unit. See “18. MONTHLY INSPECTION”.

- * Always use a dishwasher detergent instead of a neutral detergent for kitchen use. (Some dishwasher detergents are not suitable. Contact an authorized Hoshizaki service company for further details.)

3. CHECKING DETERGENT TANK AND RINSE AID TANK

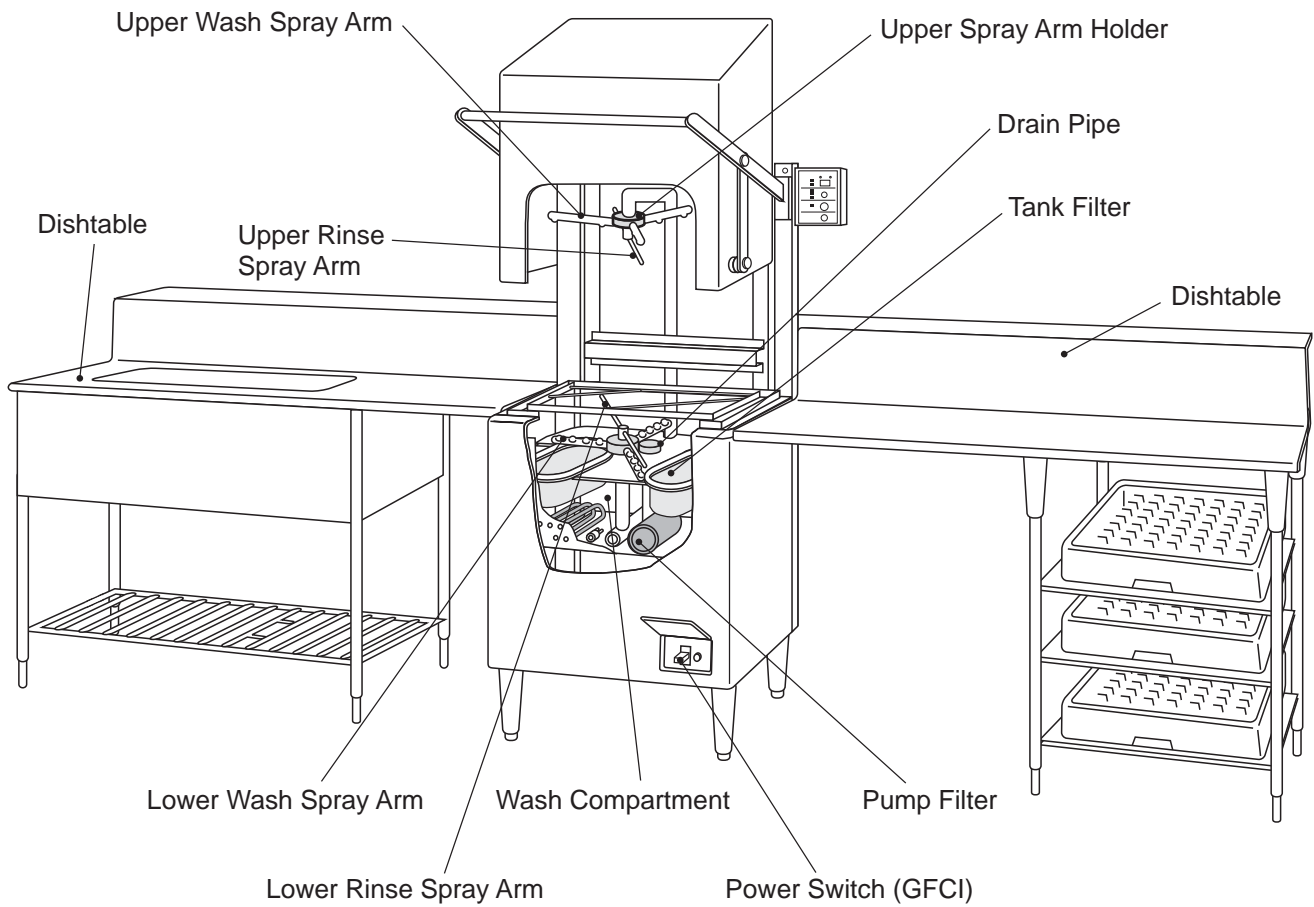
- * Follow the instructions of the detergent and rinse aid suppliers to check the detergent tank and rinse aid tank safely.

IMPORTANT

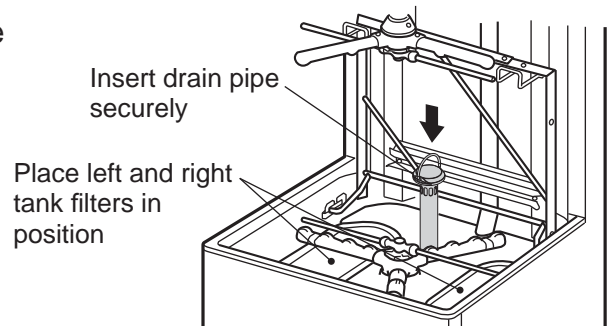
Be sure to read the warning and caution labels attached to the detergent tank and rinse aid tank.

4. PREPARING THE WASH COMPARTMENT

- * Check that the wash compartment has been cleaned with all the parts in place. If not, clean the wash compartment according to “13. DAILY MAINTENANCE”, and install the parts following the instructions below.

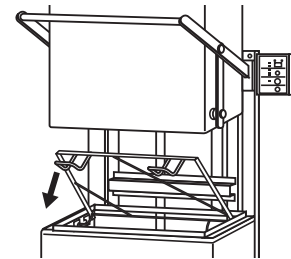


1) Check that the tank filters and drain pipe are in place.



2) Lower the rack rail. With the rack rail lifted up, the door cannot be closed and the unit will not operate.

3) Turn on the power supply to the water heater.



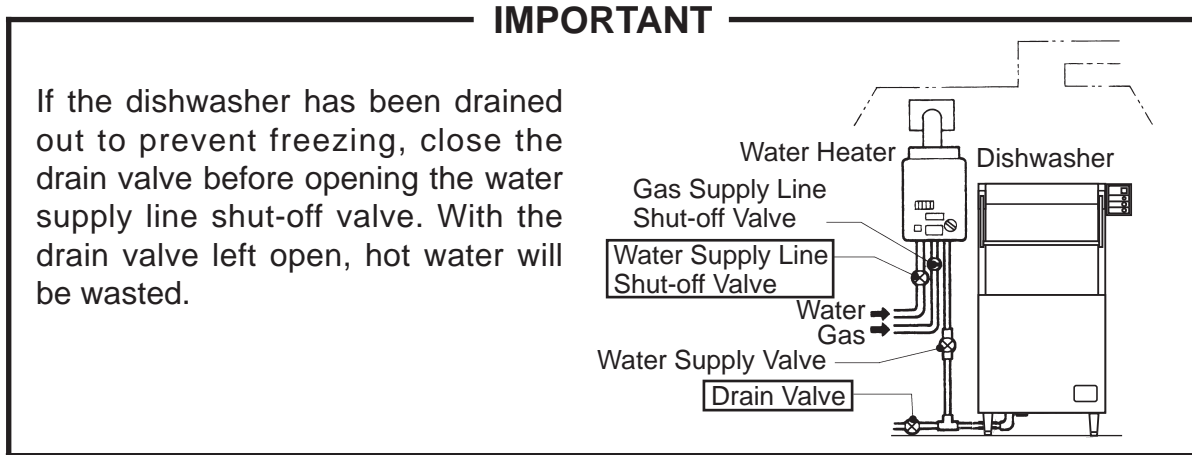
4) Open the cover in the front, and move the power switch (GFCI) to the "ON" position.

5) Press the "ON/OFF" button. The display lights up. (If the door is closed, the auto fill cycle begins.)

[a] AUTO FILL

The auto fill cycle refers to automatically repeated starts and stops of the unit to fill the wash tank with enough hot water for washing. The unit starts and stops about 24 times and the cycle takes around 11 minutes (supply voltage: 208V, hot water supply: 24 PSIG, 143°F). Then, the dishwasher is ready for washing.

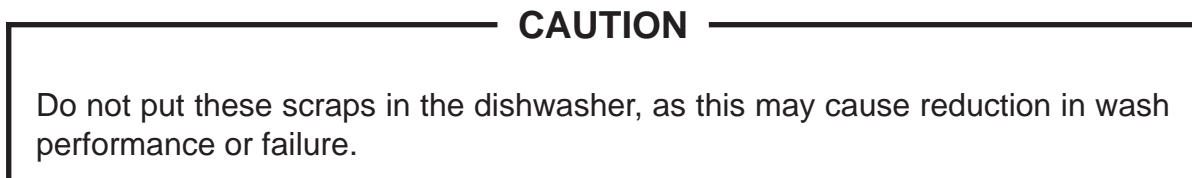
- 1) Close the door. The “AUTO FILL” lamp flashes, and the auto fill cycle starts.
- 2) After the auto fill cycle completes, the unit stops, the “READY” lamp lights up (“AUTO FILL” lamp goes off), and the buzzer sounds.



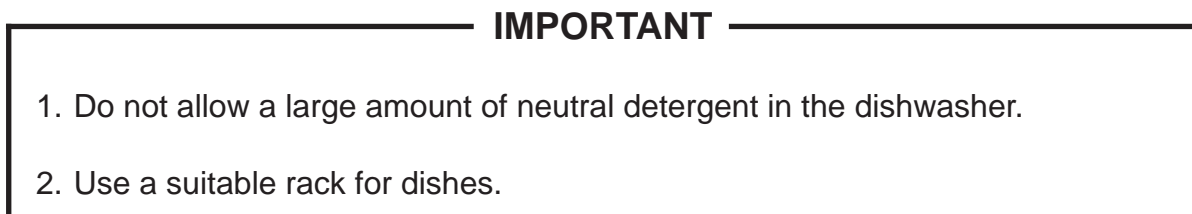
5. LOADING

[a] PREWASH

- 1) Remove any leftovers (ex. meat, fish, vegetables), chopsticks, toothpicks, straws, paper products and plastics from the dishes. Never use steel wool on ware to be loaded into the dishwasher.



- 2) To remove heavy soils such as baked gratin and steamed egg or rice, soak the dishes in hot water before loading them in the dishwasher.

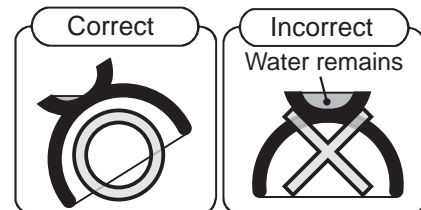
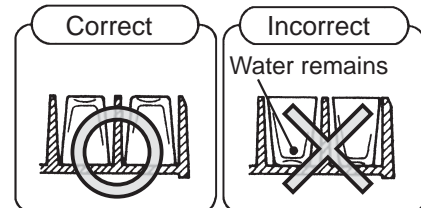
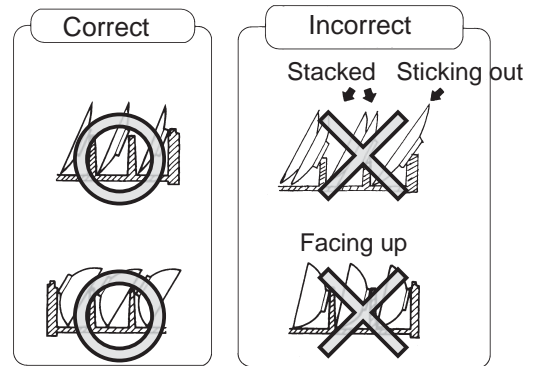


[b] LOADING DISHES

- 1) Place the rack on the dishtable.
- 2) Keep the dishes within the rack, otherwise they may be damaged.
- 3) Do not stack the dishes, otherwise they cannot be washed properly.
- 4) Load glasses upside down into the glassware rack, otherwise they cannot be washed properly and rinsed thoroughly or they may touch each other and be damaged.

Dishes or cups with a deep bottom rim cannot be rinsed thoroughly with wash water left inside the rim. Load them as shown below.

If the above loading is not practical, the rinse cycle time must be extended. Contact an authorized Hoshizaki service company for further details.



- 5) The door opening is about 18" (457 mm) high. Keep the loaded rack lower than this height. Do not force large items into the dishwasher, otherwise they may be damaged or block the spray arms.

[c] LOADING RACK

- 1) Slowly open the door.
- 2) Push the rack into the center of the dishwasher until it touches the rack guide at the back. Otherwise, the rack and dishes may get caught on the back of the door, resulting in damaging the wash and rinse spray arms and dishes.

CAUTION

Do not stack racks. Otherwise, this will cause reduction in wash performance or failure.

Door
Rack

6. WASH AND RINSE

[a] OPERATING TEMPERATURES

Operating temperatures are as follows:

Wash Temperature		Rinse Temperature	
Minimum	Recommended	Minimum	Recommended
150°F (66°C)	150°F (66°C)	180°F (82°C)	180°F (82°C)

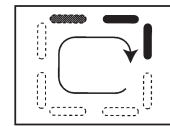
[b] MODE SETTING

Standard mode: Normal soils (about 53 seconds)
Long mode: Heavy soils (about 122 seconds)
Rinse mode: Rinse only (6 seconds)

- 1) Press the “MODE” button until the desired mode is selected and its lamp lights up.
- 2) Slowly close the door. The selected mode lamp flashes (“READY” lamp goes off), and washing operation (wash and rinse) starts.
- 3) When the washing operation completes, the “READY” lamp lights up (mode lamp goes off), and the buzzer sounds.

IMPORTANT

1. To change the duration of each mode, contact an authorized Hoshizaki service company.
2. If the display has changed from temperature indication to circling indication, the dishwasher is waiting for water supply. In a wash cycle, the unit will automatically extend the wash cycle and start a rinse cycle after completion of water supply. In the rinse mode, the unit will wait for the water supply cycle to complete and start a rinse cycle.
3. In case washing operation is interrupted by power failure or other reasons, restart the washing operation from the beginning or select the rinse mode to rinse off any detergent remaining on the dishes.



7. UNLOADING

- 1) Slowly open the door.
- 2) Slide the rack onto the dishtable.

⚠ WARNING

1. To prevent the risk of burns, do not touch the hot water [140 to 176°F (60 to 80°C)] inside the wash tank directly.
2. When opening the door, be careful not to burn yourself with dripping hot water.
3. To prevent possible burns, handle the rack, dishes, and interior parts [around 176°F (80°C)] with care after washing.

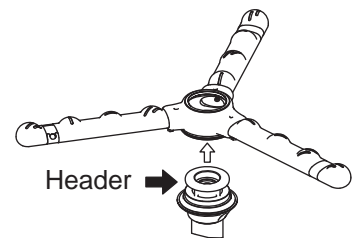
IMPORTANT

When carrying a loaded rack, use both hands to keep it level.

8. INSUFFICIENT WASHING RESULTS

If washing results seem insufficient, check for the following possible causes:

- * Small items such as chopsticks and spoons or part of the dishes stick out of the rack to block the spray arms. Remove the projecting items.
- * The dishes are packed and stacked in the rack. Reload the dishes. See “5. [b] LOADING DISHES”.
- * The tank filters or pump filter is clogged. Clean them. See “15. DAILY MAINTENANCE”.
- * The spray arm nozzles are clogged. Clean them. See “15. DAILY MAINTENANCE”.
- * The upper and lower headers (spray arm shafts) are clogged with small objects such as toothpicks. Clean them.
- * The detergent tank is out of detergent. Replace it with a new tank. See “3. CHECKING DETERGENT TANK AND RINSE AID TANK”.
- * Wash water is not clean. Press the “ON/OFF” button, check that the display goes off, and pull out the drain pipe to drain the wash water. Reinsert the drain pipe, then press the “ON/OFF” button to supply fresh wash water.



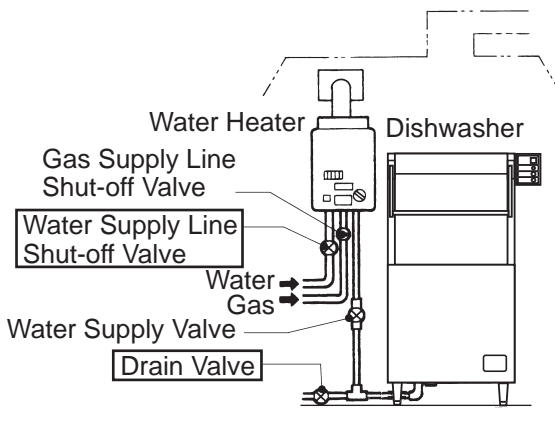
- * The wash water temperature is too low.
- * The dishes are heavily soiled. Preclean before loading the dishes.
- * Iron or tannin content in wash water turns the dishes yellowish or faintly black. Soak the dishes in a plastic bucket containing hot water and commercial bleach.
- * White spots left on clear glassware can be caused by different reasons. Consult with an authorized Hoshizaki service company or the detergent supplier.
- * Adjustments of the wash and rinse cycle times, hot water temperature, and detergent concentration may be required depending on the water quality, dish types and materials, and soil conditions.

9. SHUTDOWN

CAUTION

If there is a possibility that the ambient temperature may fall below 32°F (0° C) and freeze the unit, be sure to drain the unit. The water supply line could be damaged and leak water, resulting in damage to the surrounding property.

To drain out the water heater, close the water supply line shut-off valve, and open the drain valve and water supply valve.



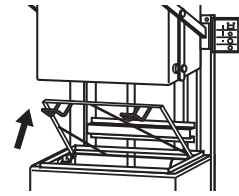
The diagram shows a water heater and a dishwasher. A gas supply line with a shut-off valve enters the water heater. A water supply line with a shut-off valve also enters the water heater. A water supply valve is located on the line between the water heater and the dishwasher. A drain valve is located at the bottom of the water heater. Arrows indicate the flow of water and gas into the water heater.

- 1) Press the “ON/OFF” button on the operation panel. The display and lamps go off.
- 2) Open the cover in the front panel, then move the power switch (GFCI) to the “OFF” position.
- 3) Turn off the water heater.
- 4) Turn off the gas and water supplies.

IMPORTANT

To operate the water heater, follow its instruction manual.

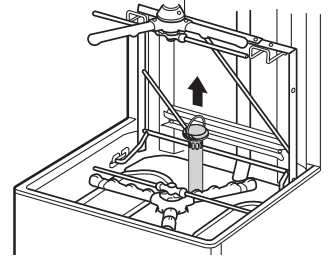
5) Tilt back the rack rail.



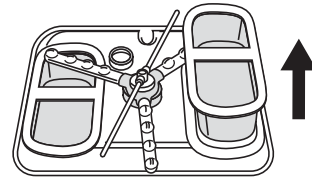
IMPORTANT

The rack rail may fall down if tilted more than 10°. Do not hang anything from it or hit it hard.

6) Pull out the drain pipe to drain water from the wash tank.



7) Remove the right tank filter and then the left tank filter without spilling scraps inside.



⚠ WARNING

When pulling out the drain pipe, be careful not to touch the wash water. It may cause burns or skin irritation. Turn the drain pipe if it is hard to pull out.

10. INTERRUPTION

⚠ WARNING

To prevent hot water from splashing and causing burns, do not open the door while the unit is running. Wait until the buzzer sounds 1 second after the unit stops.

To interrupt washing operation, press the “ON/OFF” button on the operation panel. The display and lamps go off, and the unit stops.

To resume operation, press the “ON/OFF” button.

11. STANDBY/CLEANING BUTTON

The “STANDBY/CLEANING” button is used to keep wash water hot. It will cool more quickly if the door is left open.

- 1) Press the “STANDBY/CLEANING” button on the operation panel. The standby lamp lights up (“READY” lamp goes off). The unit will not start even when the door is opened or closed.
- 2) To resume operation, press the “STANDBY/CLEANING” button on the operation panel. The “READY” lamp lights up (standby lamp goes off). Now the dishwasher is ready to wash.

IMPORTANT

The “STANDBY/CLEANING” button function is not available during washing operation. Press it while the “READY” lamp is on.

12. INTERNAL BOOSTER TANK ENERGY SAVING CONTROL

The internal booster tank water temperature in the standby mode can be set lower to save energy. For further details, consult with an authorized Hoshizaki service company.

13. LOW WATER TEMPERATURE LOCK FUNCTION

To ensure the NSF specified minimum wash and rinse water temperatures, this unit is provided with functions to lock the washing operation until wash water reaches 150°F and to extend the washing operation until rinse water reaches 180°F (factory default: OFF). For further details, consult with an authorized Hoshizaki service company.

14. ALERT FUNCTION

To keep water in the wash tank clean, this unit is provided with functions to beep and flash “Ch” (= Change) in the display when wash water should be changed and to continue this alert until the wash water tank is refilled (factory default: OFF). For further details, consult with an authorized Hoshizaki service company.

15. DAILY MAINTENANCE

IMPORTANT

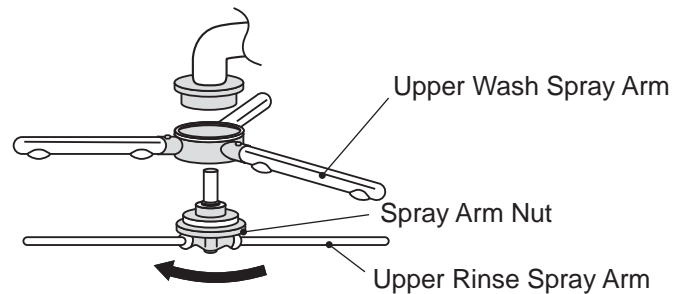
Be sure to clean the dishwasher after closing time every day. It is difficult to remove heavy soils left overnight. In high temperature conditions, food scraps will rot and affect sanitary operation.

- 1) Take out scraps from the removed tank filters, and wash them clean with a scourer.

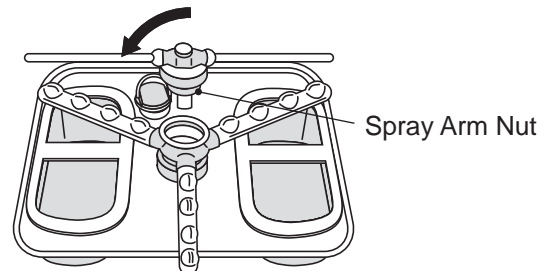
IMPORTANT

To prevent damage, do not hit the filters on the sink to drop scraps or to drain the filters.

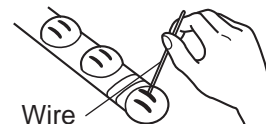
- 2) Turn and loosen the upper spray arm nut in the direction of the arrow. Support the upper rinse spray arm, and remove it together with the upper wash spray arm.



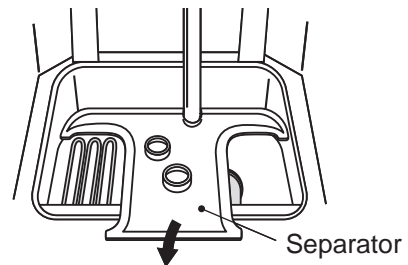
- 3) Turn and loosen the lower spray arm nut in the direction of the arrow. Lift off the lower rinse spray arm, and remove the lower wash spray arm.



- 4) If the wash spray arm and rinse spray arm nozzles are clogged, use a wire or brush to unclog and wash them clean.



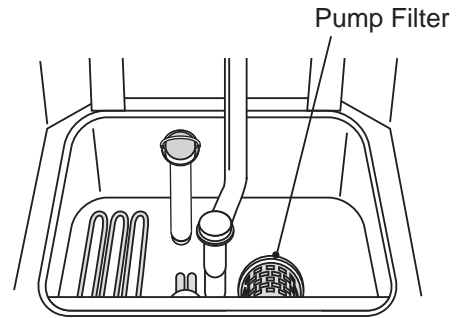
- 5) Clean the wash compartment by lifting off the separator toward you. Remove any scraps from inside the wash compartment and wash tank. Use a scourer to wash off heavy soils.



IMPORTANT

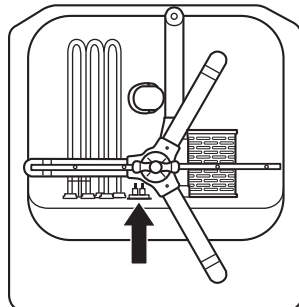
To prevent damage, do not hit the separator on the sink to drop scraps or to drain the separator.

- 6) Check the pump filter inside the wash tank. If it is clogged, clean it with a scourer.



- 7) Check the water level sensor. If it is dirty, clean it with a soft brush.

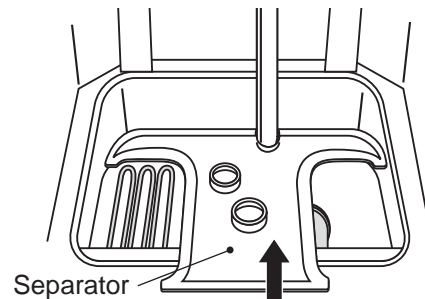
Water Level Sensor Location



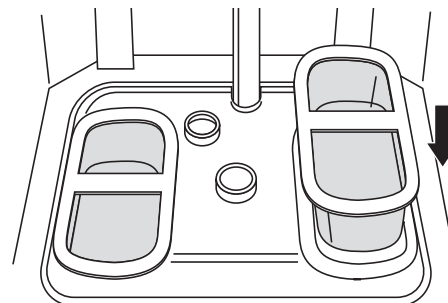
IMPORTANT

Do not use a metal brush to clean the water level sensor. The surfaces may be damaged, or metal particles attached to the sensor may cause malfunction.

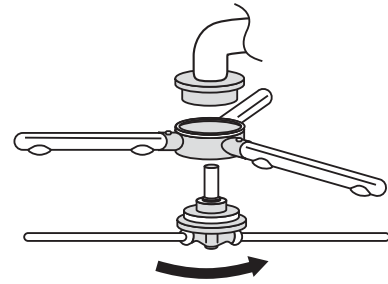
- 8) Replace the separator in its correct position.



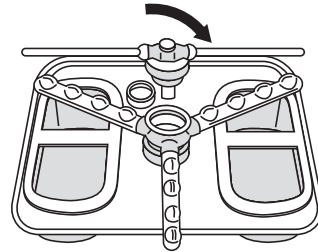
- 9) Install the left and right tank filters.



- 10) Use one hand to hold the upper wash spray arm on the upper spray arm shaft, and use the other hand to tighten the upper spray arm nut in the direction of the arrow.

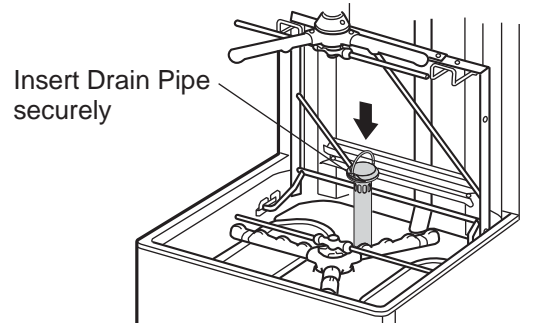


- 11) Place the lower wash spray arm on the lower spray arm shaft, and tighten the lower spray arm nut in the direction of the arrow.

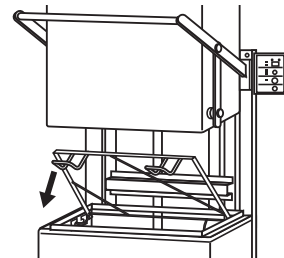


- 12) Check that the wash spray arms and rinse spray arms can be turned easily by hand.

- 13) Insert the drain pipe securely.



- 14) Lower the rack rail. With the rack rail lifted up, the door cannot be closed and the unit will not operate.



16. SELF-CLEANING

The self-cleaning function is to rinse the wash compartment with hot water. Use this function after step 7) of “15. DAILY MAINTENANCE”.

CAUTION

If a portion control detergent feeder other than concentration sensitive type is used, turn off the power to the detergent feeder. Otherwise the detergent may be supplied during the self-cleaning cycle. After the cycle completes, turn the detergent feeder back on. If this is not practical, consult with an authorized Hoshizaki service company.

1) Turn on the gas and water supplies and water heater.

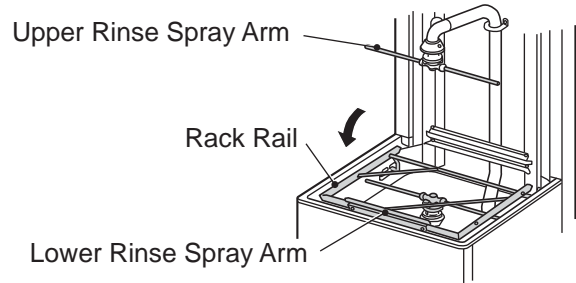
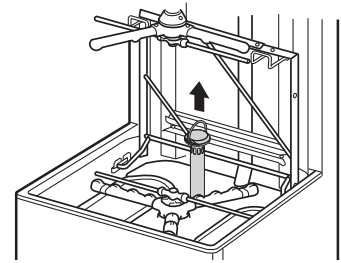
2) Pull out the drain pipe.

3) Install the upper and lower rinse spray arms only, and lower the rack rail. With the rack rail lifted up, the door cannot be closed and the unit will not operate.

4) With the door open, move the power switch (GFCI) to the "ON" position, then press and hold the "STANDBY/CLEANING" button for 3 seconds. "SC" appears in the display.

5) Close the door. "SC" and the "AUTO FILL" lamp start flashing, and the self-cleaning cycle begins. The buzzer sounds and the operation panel turns off when the cycle ends. Move the power switch (GFCI) to the "OFF" position. Turn off the water heater, and the gas and water supplies.

6) Open the door, and remove the upper and lower rinse spray arms. Go on to step 8) of "15. DAILY MAINTENANCE".



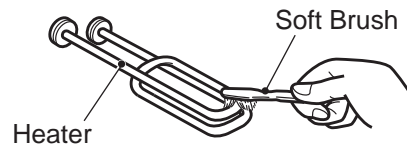
17. WEEKLY MAINTENANCE

[a] HEATER

WARNING

To prevent burns, wait for 10 minutes after draining the unit to clean the interior.

Remove any scraps from the heater, and use a soft brush to wash off residue.



Do not use a metal brush which may damage the surface.

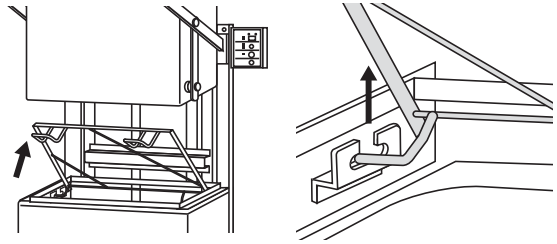
[b] EXTERIOR

1) Wipe the exterior with a soft cloth.

2) Use a damp cloth containing a neutral cleaner to wipe off dirt. Then wipe away the residue with a clean cloth.

[c] WASH COMPARTMENT

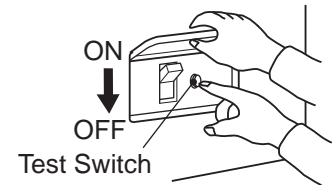
- 1) Tilt back the rack rail, and lift it off the notch.
- 2) Remove any scraps from the wash tank.



18. MONTHLY INSPECTION

[a] POWER SWITCH (GROUND FAULT CIRCUIT INTERRUPTER)

- 1) Open the cover at the front, and move the power switch (GFCI) to the “ON” position.
- 2) Press the test switch. The power switch (GFCI) should switch from “ON” to “OFF”.
- 3) If not, move the power switch (GFCI) to the “OFF” position, and contact an authorized Hoshizaki service company.



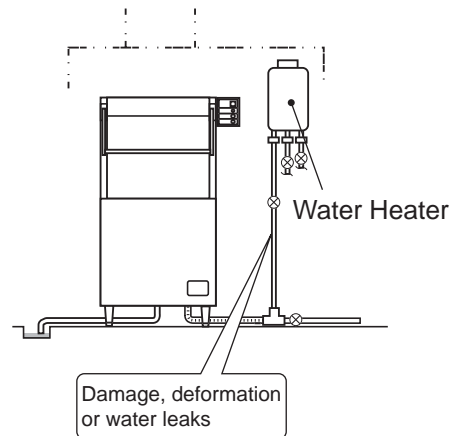
[b] WATER SUPPLY LINE

Check the water supply line for damage, deformation, or water leak marks (stains). If any of these conditions are found, contact an authorized Hoshizaki service company.

Recommendation of safety inspection by service personnel

Even if there is no problem with its use, a product out of warranty may have a risk of electric shock, fire, or water leak due to insulation degradation or aging of the electrical parts. Ask an authorized Hoshizaki service company for the following inspections (charged):

- * Dust and dirt build-up or water leak inside the unit
- * Aging conditions of the unit and its components
- * Scale, silica, lime or other foreign matter in the water circuit



19. DESCALING (AS REQUIRED)

* Use a descaler according to the supplier's instructions.

WARNING

1. Carefully follow any instructions provided with the descaler.
2. Always wear liquid-proof gloves and goggles to prevent the descaler from coming into contact with skin or eyes.
3. To prevent generation of toxic chlorine gas, do not mix a descaler with a chlorinated cleaner.

- 1) Pull out the drain pipe to drain water from the wash tank. Start the auto fill cycle to fill the wash tank with hot water.
- 2) Use the "ON/OFF" button to turn off the unit. Refer to the descaler's directions and add the proper amount of descaler to the wash tank. The wash tank holds 14.3 gallons of water.
- 3) Keep the door open. Press and hold the up and down buttons and the "MODE" button, then press the "ON/OFF" button to select the "PC" (Preventative Cleaning) mode.
- 4) Close the door to start preventative cleaning.
- 5) Refer to the descaler's directions for the proper duration of cleaning. When the proper amount of time has passed, press the "ON/OFF" button to stop cleaning.
- 6) Open the door, then check the wash tank interior. Repeat steps 1) through 5) if necessary.

WARNING

Be careful not to burn yourself with the hot water or parts in the wash tank.

- 7) Drain the wash tank, then start the auto fill cycle. Run the dishwasher to rinse the wash tank thoroughly. Drain the wash tank.

20. TROUBLESHOOTING

IMPORTANT

If something seems wrong with the unit, check for possible causes according to the following instructions. If the problem still exists, immediately contact an authorized Hoshizaki service company.

When contacting a service company, let them know the model name, serial number, date of installation (see warranty card) and type of trouble (ex. error code).

[a] TROUBLES REQUIRING IMMEDIATE SERVICE CALL

When one of the following error codes flashes in the display, move the power switch (GFCI) to the “OFF” position, and immediately contact an authorized Hoshizaki service company.

Error Code	Problem
o1, o2	Booster tank water level switch
H1 - H4	Thermistors
H7	Reverse phase connection

[b] TROUBLES REQUIRING CHECK BY USER

When one of the following error codes flashes in the display, check for possible causes. After the problem has been resolved, press the “ON/OFF” button on the operation panel to resume operation. The error code disappears, and the buzzer stops.

If the error code appears again, move the power switch (GFCI) to the “OFF” position, and immediately contact an authorized Hoshizaki service company.

Error Code	Problem	Possible Cause
A1	Auto fill	Drain pipe disconnected
		Dirty water level sensor
A2	Water supply from water heater	Water failure
		Water supply valve closed
		Water supply line shut-off valve closed
A3	Low wash water level in operation or standby mode	Drain pipe disconnected
		Tank filter out of position

[c] TROUBLES WITHOUT ERROR CODE INDICATION

Problem	Possible Cause	Remedy
Unit fails to operate	Power switch (GFCI) off	Open the cover in the front panel, and move the power switch (GFCI) to the "ON" position. If it switches off again, there is a risk of electric leakage. Immediately contact an authorized Hoshizaki service company.
	"ON/OFF" button off	Check that the display on the operation panel is off and the power switch (GFCI) is on. Press the "ON/OFF" button. If the display and "READY" lamp light up, the unit is ready. If the auto fill cycle is not complete, the unit will start water supply and then enter the ready mode. In the ready mode, operation can be started by opening and closing the door.
	Power failure	If the power switch (GFCI) and "ON/OFF" button are on but the display does not light up, check for power failure. In case of power failure, move the power switch (GFCI) to the "OFF" position and wait. When the power resumes, start up the unit according to sections 3 - 6. If the power does not resume on the same day, shut down the unit according to section 9.
	Main power supply off	Turn on the main power supply. If it is already on or switches off again, immediately contact an authorized Hoshizaki service company.
Unit is not operable by opening/closing door	Standby lamp on	The unit is not operable by opening/closing the door while the standby lamp on the operation panel is on. To cancel the standby mode and resume operation, follow the instructions in section 11. If the standby mode cannot be cancelled, or the unit is still inoperable, move the power switch (GFCI) to the "OFF" position, and immediately contact an authorized Hoshizaki service company.
Abnormal noise (vapor lock)	Bubbling compartment	When a detergent other than dishwasher detergents is used, or a large amount of neutral detergent for kitchen use is mixed in from prewash, the wash compartment bubbles heavily, resulting in insufficient washing due to wash pump vapor lock. In this case, replace the detergent with a dishwasher detergent, and refill the wash tank.
	Pump filter clogged	Vapor lock also occurs when the pump filter at the pump suction inlet is dirty or clogged. Clean the pump filter according to step 6) of section 13.

21. LONG STORAGE, RELOCATION, DISPOSAL, TRANSFER

When preparing the unit for long storage, shut down and clean the unit according to sections 9 and 13 - 17. Move the power switch (GFCI) to the "OFF" position and turn off the power supply.

If something seems wrong when restarting the unit after long storage, turn off the power supply, and immediately contact an authorized Hoshizaki service company.

WARNING

1. When restarting the unit after long storage, contact an authorized Hoshizaki service company. To prevent electric shock, do not restart the unit by yourself.
2. In case of relocation, contact an authorized Hoshizaki service company. Improper installation may cause water leak, electric shock or fire.
3. When disposing of the unit, contact an authorized Hoshizaki service company. Leaving the unit may violate laws or cause an unexpected accident.

CAUTION

When selling or transferring this product, tape this instruction manual and the installation manual to the exterior to provide the new owner with information on safe and proper use of the product.