NEWPORT BRASS®

Flawless Beauty. From Faucet to Finish.™

5-036 HOT WATER TANK

Installation & Operating Guide

Read all instructions thoroughly. Keep this guide for future reference.

Proof of purchase is required for Warranty. Staple receipt or proof of purchase to this manual for easy reference. Warranty is non-transferable.

NOTE: Do not plug appliance into the power supply if the tank is empty.

Record important Hot Water Dispenser information here

Model Number* **Serial Number***

IM-RH-TRI-ENG-171

IMPORTANT SAFETY INFORMATION

Newport Brass's line of 'Hot' and 'Hot/Cold' water dispensers may drip from the spout after use under normal operating conditions. This condition is caused by the thermal expansion of water that occurs naturally when cool water is heated in a confined space (the tank). Newport Brass dispensers are specifically designed to allow steam or expanded water to escape through the spout, thus preventing pressure from building within the tank. This is a safety feature and should not be confused with a defective product.

Lab tests have confirmed that during the heat up cycle it is possible that up to 5 ounces of water may leak from the spout for up to 15 minutes after the valve is shut off. The actual amount and duration is dependent upon the temperature of the water and the amount of hot water dispensed.

Although persistent leaking and/or dripping may also be caused by a non-conforming cartridge and/or improper assembly, the type of leakage described here can be verified by unplugging the power to the water heater. Water should not leak through the spout after the tank is shut off in this manner.

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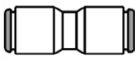
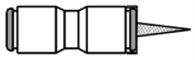
HOT WATER TANK

COMPONENTS:
Box contents include:

1. Quick-connect fitting for water inlet tube **(Fitting #1)** 

2. Quick-connect fitting with debris screen filter **(Fitting #2)** 

3. Hot Water Tank

TYPE OF WATER DISPENSER REQUIRED

Only use a Newport Brass "open vent" water dispenser with the hot water tank. Using another manufacturer's standard or reverse osmosis type dispenser will damage the tank and void the warranty.

MATERIAL REQUIRED (NOT PROVIDED)

1. Shut-off valve and T-union fitting
2. Two mounting screws and plastic anchors (if attaching to dry wall)
3. 1/4" (6.35mm) O.D. inlet tubing
4. Ruler or measuring tape
5. Pliers
6. Small drill bit for starter holes
7. Gloves
8. Safety glasses
9. Open end wrench
10. Drip pan or bucket
11. Compression fitting for water tank outlet. Supplied with your Newport Brass water dispenser **(Fitting #3)**

PRESSURE FREE HOT WATER DISPENSER DESIGN

Unlike other types of household water heaters this tank is not pressurized as a safety precaution. On conventional household water heaters, the water dispenser valve is placed after the heater tank resulting in a pressurized tank. In this configuration, the water dispenser valve is placed before the tank creating an "open vent" style system ensuring that pressure does not built up inside the tank.

IMPORTANT INFORMATION

This tank can produce up to 60 cups of hot water per hour at approximately 200°F (93°C) ±5°. Due to the high temperature of the water the tank is not under pressure as a safety precaution. Consequently, there may a slight delay of water flow after the water dispenser valve has been opened. This is normal and indicates that the thermo expansion chamber is functioning properly.

SAFETY INSTRUCTIONS | Please Read All Instructions Carefully

⚠WARNING

Electric Shock Hazard: Using an ungrounded or improperly connected appliance can result in serious injury or death from electrical shock.

This appliance must be grounded. This instant hot water tank is equipped with a cord that has a grounding conductor and a grounding pin. The plug must be connected to an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician. Check with a qualified electrician or serviceman if you are in doubt as to whether the hot water dispenser is properly grounded.

⚠CAUTION

Personal Injury: This tank is a non-pressurized tank. DO NOT modify this system. DO NOT close vent tube or connect other brand dispensers or valves to the tank. Use only with a Newport Brass brand hot water dispenser faucet. Use only parts provided. Contact a certified repair person for repairs or replacement components.

⚠WARNING

Fire Hazard: To minimize the possibility of fire, DO NOT store flammable items such as rags, paper or aerosol cans near the tank. DO NOT store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

⚠CAUTION

Property Damage: To avoid water damage, replace any loose or split tubing. Periodically inspect the unit for any signs of leakage and immediately remove from service any unit suspected of leaking.

When using electrical appliances, basic safety precautions should always be followed:

1. Do not attempt to service this product. Repairs should be done by authorized service personnel.

2. Do not operate any appliance with a damaged cord, plug, or after the appliance malfunctions.

3. Do not use outdoors or in a damp area.

4. Do not let the cord hang over the edge of a table or counter, or touch hot surfaces.

5. Do not use appliance for other than intended household use.

6. When using the appliance, provide 4 to 6 inches of air space around the entire unit for air circulation.

7. To protect against electrical shock, do not place cord, plugs or the appliance in water or other liquid.

8. Do not let children operate. Hot water can cause severe burns.

9. The appliance must not be immersed.

SAVE THESE INSTRUCTIONS.

THIS PRODUCT IS FOR HOUSEHOLD USE ONLY.

The alert symbols displayed at the right point to important safety information to make you aware of potential hazards that can cause serious injury or death. Please pay special attention to the information following these alerts and warnings. Failure to comply with these instructions can result in property damage, serious injury or death.

ELECTRICAL REQUIREMENTS

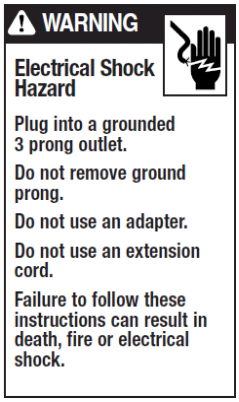
Recommended Ground Method

For your personal safety, the hot water tank is equipped with a power supply cord having a 3-prong ground plug. To minimize possible shock hazard, the cord must be plugged into a mating 3-prong, ground type outlet, grounded in accordance with all local codes and ordinances.

If a mating outlet is not available, it is the personal responsibility and obligation of the customer to have a properly ground, 3-prong outlet installed by a qualified electrician.

If codes permit and a separate ground wire is used, it is recommended that a qualified electrician determine that the ground path is adequate.

A 110 volt, 60Hz, AC only 15 or 20 ampere fused, grounded electrical supply is required. It is recommended that a separate circuit serving only your hot water dispenser be provided.



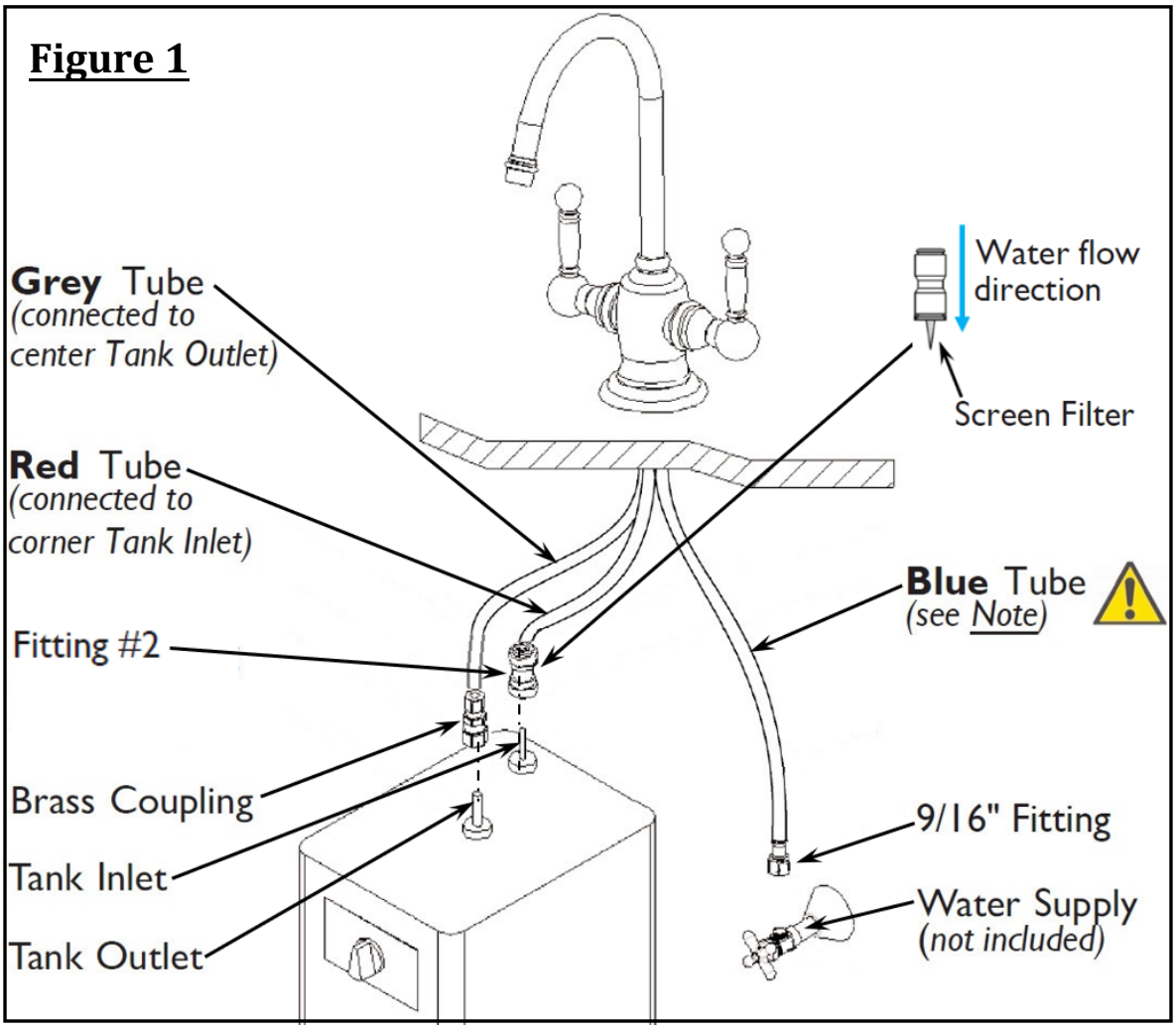
Note: Use an outlet that cannot be turned on/off by a switch. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

INSTALLATION | Before You Begin

IMPORTANT:

- Make sure that the water dispenser is compatible with this hot water tank. Dispenser must be a Newport Brass branded faucet. Using a standard water dispenser will damage the tank and void the warranty.
- Make sure you have all necessary parts and tools as suggested on page 2.
- Before connecting to the power source, the tank must be filled with water and the thermostat turned to the OFF position.
- Do not use an extension cord with this appliance. Appliance must be within 36” (914mm) of the power source.
- Plumbing connections must comply with all local codes and ordinances.
- Do not use any pipe sealing compounds as they may get inside the tank causing an objectionable taste and odor.

IMPORTANT: Observe all governing codes and ordinances.



STEP 1 - Mount The Tank: The dial must be in the OFF position during installation.
Position the tank vertically beneath water dispenser so that the flexible tube from the water dispenser reaches the center tube on the tank in the shortest distance possible. Keep the tank at least .4" (10mm) away from the wall. The back side of the tank can be mounted against the wall. To mount to drywall, use two mounting screws and plastic anchors.

NOTE: The tank must be positioned so that the hoses to the water dispenser does not twist or kink.

STEP 2 – Install the Water Dispenser
Follow the water dispenser installation manual to install the dispenser.

NOTE: Do not trim Blue Tube and use it with 1/4" compression fitting. Blue Tube can only be trimmed if it is used with **Fitting #1**

NOTE: When use plastic quick-connect fittings, remove the red clips to make the connection first and then reattach the red clips.

NOTE: DO NOT lengthen the tubes. Dispenser performance will be impaired and warranty will be void.

NOTE: The cone shape of the screen filter of **Fitting #2** should point in the direction of water flow as shown in **Figure 1**.

STEP 3 - Check for Leaks
Open the Water Supply and turn the water dispenser ON (hot side) in order to fill the tank (about 1 minute). When the tank is full, water will flow out of the dispenser spout. Turn the dispenser off by closing the valve. Check for leaks.

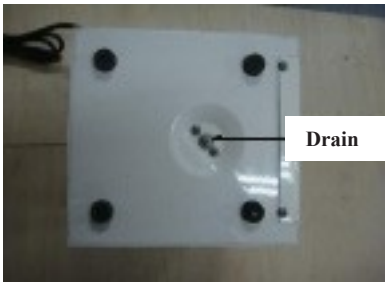
STEP 4 - Prepare for Power
The thermostat control dial should be in the OFF position**.** The thermostat control dial controls the water temperature, not the flow of water.

IMPORTANT INFORMATION

The hot water tank is equipped with a self-resetting thermal fuse. When filling the tank the thermostat should be in the OFF position before plugging the power cord into an electrical outlet. If the tank is empty and the thermostat is set to the ON position when the power cord is connected, the self-resetting fuse will disconnect the current to the heater after approximately one minute in order to protect the heater from a "dry start" failure. The fuse in the heater control will self-reset after approximately 1/2 hour. Turn on the water supply to the tank and continue the installation. Continued misuse will cause damage to the hot water tank voiding the warranty.

STEP 5 - Test Installation
Plug the electrical cord into a grounded 3-prong outlet. Do not use an outlet controlled by an off/on wall switch. Turn the thermostat control dial clockwise to the highest position. Maximum temperature will be reached in about 15 minutes at which time the dispenser will be ready for use. Lower the temperature setting by turning the thermostat control dial counterclockwise if you detect steam vapor or hear a boiling noise. To raise or lower the water temperature, rotate the thermostat dial accordingly. At the LOW setting the water temperature will be approximately 140°F (60˚C) ±5° and approximately 200°F (93°C) ±5° at the HIGH setting.

CLEANING AND MAINTENANCE | Seasonal Shutdown

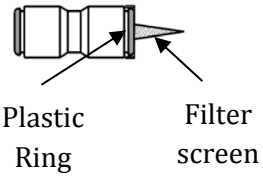


NOTE: Do not plug appliance into power supply if tank is empty.

If the hot water tank is exposed to freezing temperatures the water must be drained.

1. Unplug the tank from the power supply.
2. Turn the thermostat control dial to OFF position (fully counter clockwise).
3. Turn water dispenser on and run water until the water is no longer hot.
4. Place a 3 quart container under the drain plug at the bottom of the tank. Use a screwdriver to remove the screw and O-ring in the drain tube opening. When the tank is fully drained replace the O-ring and screw. Tighten to reseal the drain.
5. Only use mild cleaners to clean the dispenser and plastic components. Cleaners with acids, abrasives, alkaline or organic solvents will result in deterioration of the plastic components and void the warranty.

CLEANING THE QUICK-CONNECT DEBRIS SCREEN FILTER (Fitting #2)



Clean the **Fitting #2** screen filter if you experience a reduction in water flow.

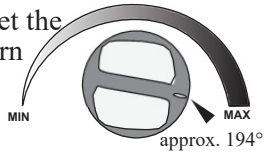
1. Unplug the tank from the power supply.
2. Turn the thermostat control dial to the OFF position (rotate counter clockwise).
3. Remove **Fitting #2** by removing the red clips and depressing the small plastic ring around the Tank Inlet. This will release tension and allow the fitting removed from the Tank Inlet.
4. Remove the plastic cap on the fitting with a screw driver by gently prying off the cap. Next, expose the screen by gently pulling it out of the fitting as shown in the picture above. Clean the screen filter and cap with a soft brush. It may be necessary to soak the fitting in vinegar for one or two hours to remove hardened hard water deposits.
5. Reassemble the fitting to the Tank Inlet and follow Steps 3-5 of the installation instructions before using the tank again.

CARE AND USE

⚠WARNING	Electric Shock Hazard: To prevent electrical shock, disconnect power before servicing unit. Use only a properly grounded and polarized electric outlet.

ADJUSTING THE THERMOSTAT

Factory temperature pre-set is 190°F±(88°C) ±5°. To reset the thermostat to that setting, turn the indicator two notches to the right of vertical.



- Adjust the thermostat slowly, turning the dial clockwise to increase temperature or counter clockwise to decrease temperature, then activate water dispenser handle for 20 seconds to bring in fresh water to be heated at the new setting. Allow 5-7 minutes for water to reach new temperature.

⚠WARNING	Scalding Hazard: Do not allow water to boil. May result in severe burns.

PROPERTY DAMAGE

- Regularly inspect the unit for any signs of leakage. If there are signs of water damage, immediately remove the unit from service.
- To avoid water damage from leakage, replace all cut, loose or split tubing.
- A drain pan, plumbed to an appropriate drain or outfitted with a leak detector, should be used in those applications where any leakage could cause property damage.

RED AND GREEN LIGHTS

- The Green light indicates hot water is available.
- The Red Light indicates water is heating in the tank.

CLEANING THE WATER DISPENSER AND TANK

- Only use mild cleaners to clean the water dispenser and plastic components.
- Cleaners with acids, abrasives, alkaline or organic solvents will result in deterioration of the plastic components and void the warranty.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	WHAT TO DO
Poor water flow:	• The tank is not under pressure which may cause a slight delay in water flow. This is a safety feature.	• Make sure all valves on water supply are open. • Check hose from water dispenser for twisting or tight bending. • Check if quick-connect filter screen or water dispenser filter screen is clogged (see water dispenser manual). Clean if necessary.
Water boils or vapor appears:	• The thermostat may be set too high.	• Lower temperature setting by turning thermostat control counterclockwise.
Hot water drips or sputters from faucet:	• The thermostat may be set too high.	• Turn the thermostat control dial counterclockwise to reduce the temperature. • Ensure that the hose connecting the water dispenser to the hot tank is not clogged, twisted or kinked. • Check for a clogged filter screen in the quick-connect fitting (see CLEANING THE QUICK CONNECT SCREEN FILTER instructions above). • Check for proper installation of tubing from water dispenser to hot water tank and water dispenser to water line. If connected backwards or cross-connected, valve may be damaged.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	WHAT TO DO
Water and steam discharges forcefully from spout without turning on the dispenser faucet.	• Water is boiling in the tank. May be normal during initial setup. Note that water boils at lower temperatures at higher altitudes.	• Activate water dispenser lever to release some water from the tank. • Turn the thermostat control dial counterclockwise to reduce the temperature.
Water is not hot.	• The unit is unplugged. • The electric outlet is inoperative.	• Make sure the unit is connected to a properly grounded electric outlet. • Make sure the circuit breaker or fuses are functioning properly. • Check that the outlet is not switched off. • Turn thermostat control dial fully clockwise. This may produce boiling water in approximately 15 minutes and possibly be accompanied by a gurgling sound in the tank and/or water "sputtering" from the faucet. If the water boils turn thermostat control dial slightly counterclockwise until the gurgling and/or "sputtering" stops. This should take place within 20 seconds. Turn control dial an additional 1/8" (3 mm) counterclockwise at the tip of the dial. Wait 15 minutes and check the temperature of the water.
Water is too hot or not hot enough.	• Thermostat is not adjusted to your needs.	• Adjust the thermostat slowly, then activate water dispenser lever for 20 seconds to bring in fresh water to be heated at the new setting. Allow 5-7 minutes for water to reach new temperature.
Water is dripping from the spout intermittently.	• The expansion chamber isn't draining properly due to low water pressure. • The spout is blocked.	• Unplug the unit from the electrical outlet. If the dripping doesn't stop after a few minutes, check the supply valve to ensure that it is fully open and there are no obstructions in the water line (i.e., a poorly mounted saddle valve, a clogged water filter, or a partially opened shut-off valve). • Clean out any debris from the water dispenser spout.

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