Installation Instructions

Electronic Kitchen Faucet

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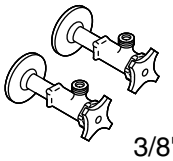
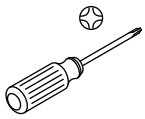
THE BOLD LOOK OF KOHLER®

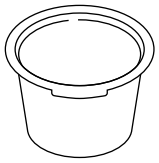
1433562-2-A

Tools and Materials



3/8"





Plus:
- Unswitched Electrical Outlet

Before You Begin

WARNING: Risk of fresh water contamination. This faucet contains back-siphonage protection. Do not remove any internal components.

WARNING: When using electrical products, basic precautions should always be followed, including the following:

DANGER: Risk of electric shock. Connect only to a circuit protected by a Ground-Fault Circuit-Interrupter (GFCI)*.

WARNING: Risk of electric shock. Grounding is required. A qualified electrician should make all electrical connections.

WARNING: Risk of electric shock. Disconnect power before servicing.

WARNING: Risk of injury or property damage. Please read all instructions thoroughly before beginning installation.

CAUTION: Risk of property damage. The faucet spout contains a magnet. Do not allow items susceptible to electromagnetic damage to come into close proximity to the spout.

Follow all plumbing, electrical, and building codes.

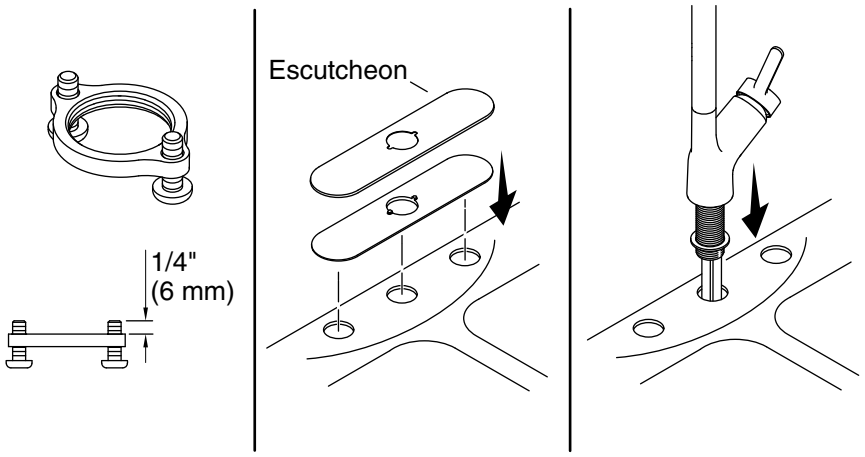
*Outside North America, this device may be known as a Residual Current Device (RCD).

Before You Begin (cont.)

CAUTION: Risk of product damage. This product contains sensitive electronic components. Do not store open containers of chemical or cleaning products near this product. Cleaning rags or sponges must be rinsed with fresh water before storage.

IMPORTANT! Do not use a switch-controlled electrical outlet (typically used for garbage disposals) to provide power to the faucet.

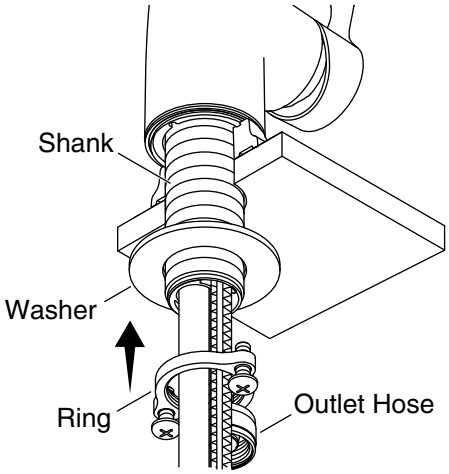
- ☐ Class 1 laser product: Complies with 21 CFR 1040.10 and 1040.11.
- ☐ Observe all local plumbing and building codes.
- ☐ Provide a constant **unswitched** 120 VAC electrical outlet located below the sink within 5′ (1.5 m) of the control box.
- ☐ Turn off the water supply.
- ☐ For new installations, assemble the faucet to the sink before installing the sink.
- ☐ For uneven mounting surfaces (such as tile grout lines), apply a suitable sealant under the faucet. **Do not use petroleum-based sealant.**

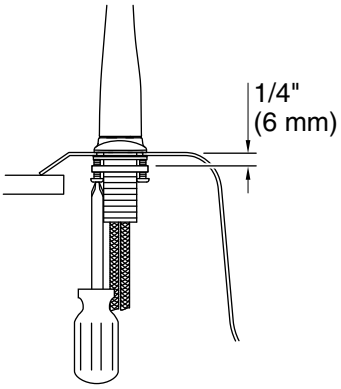


1. Prepare for Installation

NOTE: Handle orientation is designed to be on the right.

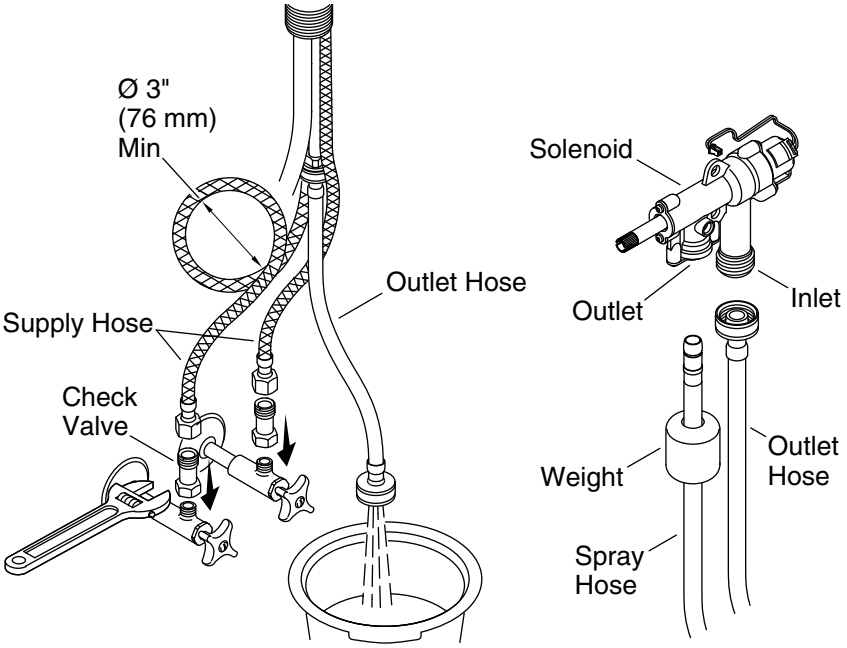
- ☐ Thread the screws into the ring 1/4″ (6 mm) past the surface.
- ☐ Use the escutcheon included with your faucet.
- ☐ Insert the faucet through the mounting surface with the handle on the right.





2. Install the Faucet

- ☐ Slide the washer and ring over the outlet hose, then feed the supply hoses and wires through.
- ☐ Thread the ring onto the shank until the washer contacts the underside of the sink.
- ☐ Adjust the ring to align the screws with the front and back of the faucet.
- ☐ Use a Phillips screwdriver to securely tighten the screws.



3. Connect the Supplies

CAUTION: Risk of restricted water flow and product damage. Supply hoses must not be taut, kinked, or twisted during installation. If the supply hoses must be coiled, maintain an inside diameter of 3" (76 mm).

CAUTION: Risk of fresh water contamination. To prevent water contamination, the check valves must be installed.

Connect the Supplies

- ☐ Assemble a check valve to each supply.
- ☐ Connect and tighten the supply hoses to the check valves.
- ☐ Place a bucket under the outlet hose.
- ☐ Turn on the supplies.
- ☐ Flush the hot and cold water for 1 minute to remove any debris.
- ☐ Connect the outlet hose to the solenoid inlet.

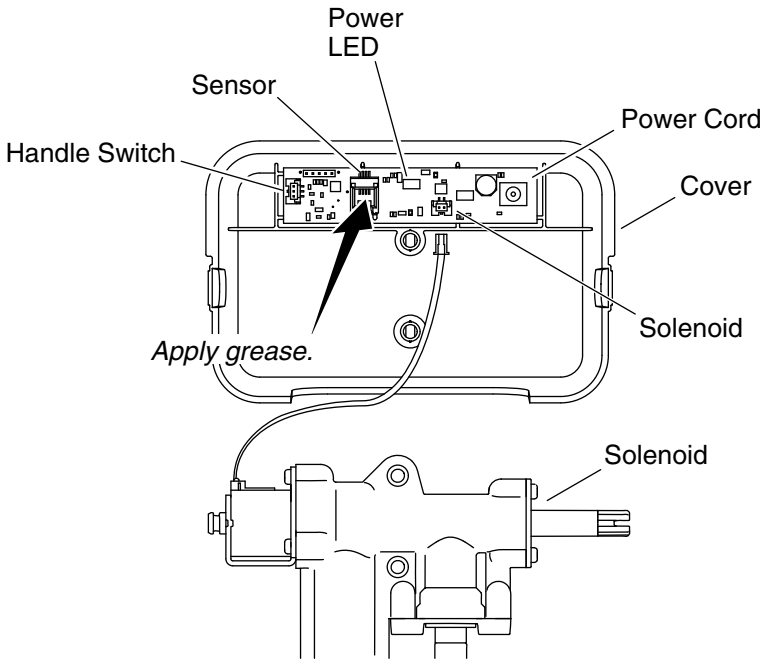
Connect the Spray Hose

- ☐ Remove the protective cap.

Connect the Supplies (cont.)

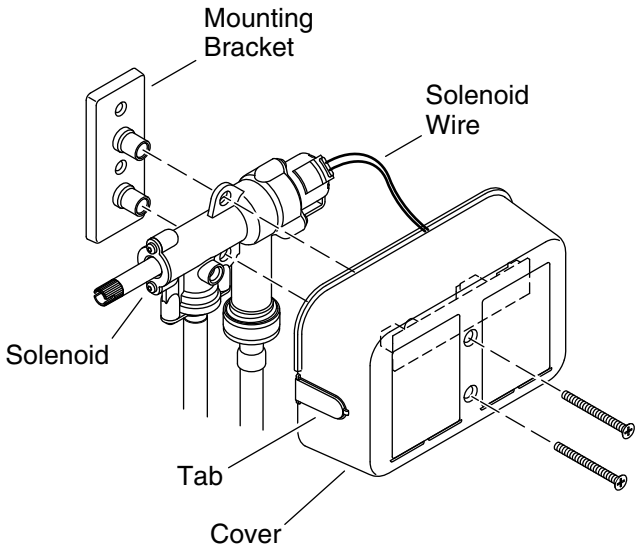
NOTE: The weight must be installed onto the spray hose to act as a pull stop and to prevent kinking damage.

- ☐ Slide the weight onto the spray hose.
- ☐ Connect the spray hose to the solenoid outlet.



4. Connect the Wires

- ☐ Apply grease (provided) to the sensor socket located on the circuit board inside the cover. This will provide additional corrosion protection.
- ☐ Connect the handle switch and sensor wires from the faucet to the circuit board.
- ☐ Connect the power cord to the circuit board.
- ☐ Connect the solenoid wire to the circuit board.
- ☐ Plug the power cord into an unswitched 120 VAC outlet. The power LED on the circuit board will illuminate.
- ☐ Test activation of the sensor. Refer to the ″Faucet Operation″ section.



5. Install the Solenoid

CAUTION: Risk of restricted waterflow. The outlet hose must not be taut or kinked when installed. Locate the solenoid valve within 7″ (178 mm) to 8″ (203 mm) of the faucet centerline.

NOTE: Locate the solenoid valve within 7″ (178 mm) to 8″ (203 mm) from the faucet centerline. Allow adequate clearance for servicing.

Mount the Bracket

NOTE: The mounting bracket should be secured with two suitable fasteners (not supplied) based on the type and thickness of the cabinet or wall material.

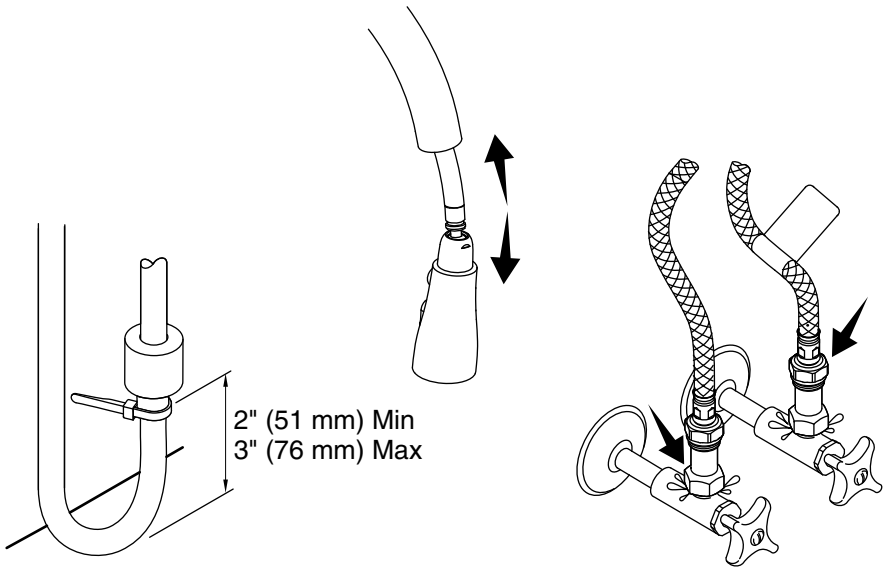
□ Fasten the mounting bracket vertically to the cabinet or wall.

Mount the Solenoid and Cover

NOTE: The solenoid may be positioned to the right or left. Remove the appropriate tab on the cover.

Install the Solenoid (cont.)

- ☐ Position the solenoid and cover on the mounting bracket.
- ☐ Secure the solenoid and cover to the mounting bracket with the two screws provided.



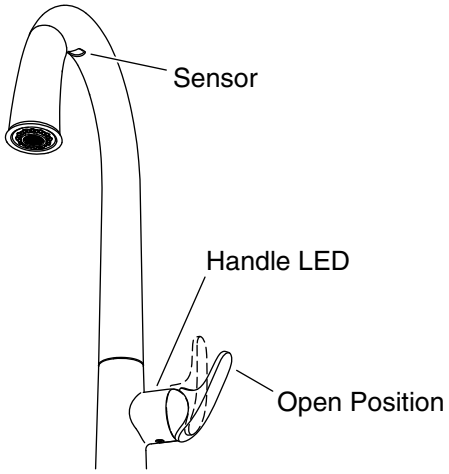
6. Complete the Installation

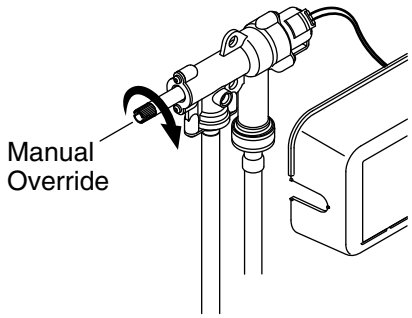
Position the Weight

- ☐ Position the weight between 2″ (51 mm) and 3″ (76 mm) from the cabinet floor.
- ☐ Secure the cable tie around the spray hose just below the weight.
- ☐ Extend and retract the spray hose to check for smooth operation.

Check for Leaks

- ☐ Ensure that all connections are tight.
- ☐ Turn on the water supplies, and check all connections for leaks.
- ☐ Test the faucet for proper operation. Refer to the ″Faucet Operation″ section.





Faucet Operation

- Rotate the handle outward to the open position to start water flow. The handle LED will illuminate to indicate that the sensor is functioning.
- Adjust the handle to the desired water temperature.
- Wave your hand under the spout to turn the water OFF.
- Wave your hand under the spout again to restart the water flow.

NOTE: Some objects that are clear and certain colors are not detectable by the sensor. Always use your hand for sensor testing.

- If needed, refer to the "Handle LED Adjustment" section for more information.

NOTE: For extended periods of nonuse, return the handle to the closed (upright) position. The handle LED will turn OFF, indicating that water flow is not available.

LED Indicators

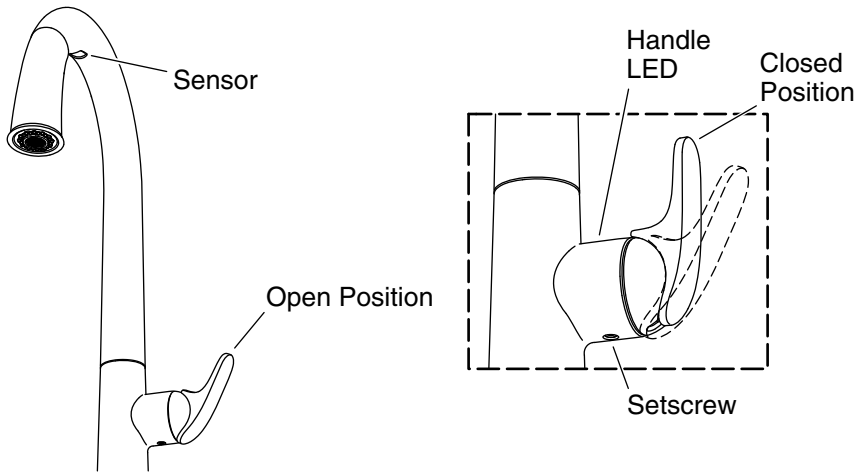
- **Handle LED:** Illuminates when the sensor is active.
- **Power LED:** Indicates that there is power to the circuit board.

Features

- **Automatic shut-off:** After 4 minutes of inactivity, the water will automatically shut OFF.

Faucet Operation (cont.)

- **Sensor override:** In the event of power loss, bypass the sensor function by turning in the override feature on the solenoid valve. The faucet can then be operated manually.

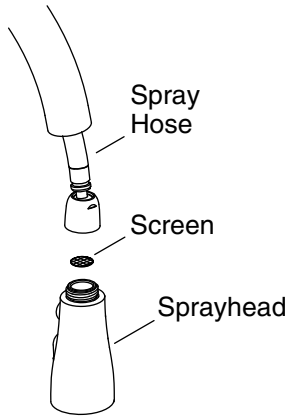


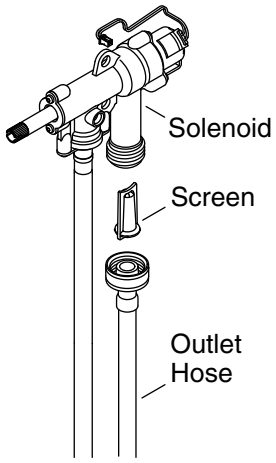
Handle LED Adjustment

NOTE: The LED should turn ON as the handle is rotated open, and OFF when the handle is in the upright (closed) position. Use a 5/64″ hex wrench to adjust the valve setscrew as needed.

IMPORTANT! Do not apply upward pressure to the valve setscrew while making adjustments.

- □ **LED is ON when the handle is closed:** Tighten the valve setscrew until the LED turns OFF. Then tighten the setscrew an additional 1/4 turn.
- □ **Handle does not return to the upright position:** Loosen the valve setscrew until the handle rotates to the full upright (closed) position and the LED turns ON. Then tighten the setscrew until the LED turns OFF, plus an additional 1/4 turn.
- □ **Water does not fully shut off:** Loosen the valve setscrew until the handle rotates to the full upright (closed) position and the LED turns ON. Then tighten the setscrew until the LED turns OFF, plus an additional 1/4 turn.





Cleaning the Screens

Sprayhead Screen

- ☐ Turn the handle to the closed position.
- ☐ Disconnect the nut at the end of the spray hose.
- ☐ Remove and clean the screen inside the spray hose.
- ☐ Reinsert the screen and reconnect the sprayhead.

Solenoid Inlet Screen

- ☐ Turn the handle to the closed position.
- ☐ Disconnect the outlet hose from the solenoid.
- ☐ Remove and clean the inlet screen inside the solenoid.
- ☐ Reinstall the inlet screen and reconnect the outlet hose.

Troubleshooting

CAUTION: Risk of product damage. This product contains sensitive electronic components. Use care not to damage pins and connectors during troubleshooting.

CAUTION: Risk of product damage. Do not insert anything other than the sensor wire into the sensor wire connector (phone jack) on the circuit board.

NOTE: For service parts information, visit your product page at kohler.com.

Faucet Troubleshooting Table

Symptoms	Probable Causes	Recommended Action
1. No water flow.	**A.** The supply stops are closed.	**A.** Confirm that the supply stops are open.
	B. Handle is in the closed position.	**B.** Rotate the handle to the open position. Refer to the ″Faucet Operation″ section.
	C. The hot and/or cold supply hose is kinked.	**C.** Confirm that the supply hoses are not kinked. If coiled, maintain an inside diameter (ID) of 3″ (76 mm).
	D. The outlet hose is kinked.	**D.** Confirm that the solenoid valve is located within 7″ (178 mm) to 8″ (203 mm) of the faucet centerline.
	E. Handle LED is not lit.	**E.** Refer to the ″Handle Switch Troubleshooting Table.″
	F. Power LED on circuit board is not lit.	**F.** Refer to the ″Sensor Troubleshooting Table.″
	G. One or more screens are clogged.	**G.** Refer to the ″Cleaning the Screens″ section.

Troubleshooting (cont.)

Faucet Troubleshooting Table

Symptoms	Probable Causes	Recommended Action
2. Low water flow.	**A.** The supply stops are partially closed.	**A.** Confirm that the supply stops are fully open.
	B. Handle is partially closed.	**B.** Rotate the handle to the full open position.
	C. The hot and/or cold supply hose is kinked or twisted.	**C.** Confirm that the supply hoses are not kinked or twisted. If coiled, maintain an ID of 3″ (76 mm).
	D. The outlet hose is kinked.	**D.** Confirm that the solenoid valve is located within 7″ (178 mm) to 8″ (203 mm) of the faucet centerline.
	E. One or more screens are clogged.	**E.** Refer to the ″Cleaning the Screens″ section.
	F. Cracked diaphragm.	**F.** Replace the solenoid valve assembly.
3. Poor spray pattern.	**A.** The spray nozzles are clogged.	**A.** Rub your finger over the nozzles with water running to dislodge debris.
4. Power LED is not lit.	**A.** No power to the circuit board.	**A.** Check the power supply connections to the circuit board.
	B. Power cord is plugged into a switched outlet.	**B.** Plug the power cord into an unswitched 120 VAC outlet (test the outlet with a radio or other device). Confirm that the power LED illuminates.
5. Water drips or trickles when faucet is not in use.	**A.** Manual override is partially engaged.	**A.** Turn the manual override clockwise until it stops; then turn it counterclockwise until the water drip stops.

Troubleshooting (cont.)

Solenoid Troubleshooting Table

Symptoms	Probable Causes	Recommended Action
1. Water leaks from the solenoid valve.	**A.** Hose connections are not secure.	**A. CAUTION: Risk of personal injury or product damage.** Turn off the main power and water supply. Check all connections. Make adjustments as needed.
	B. Internal leak.	**B.** Replace the solenoid valve assembly.
2. No audible ″click″ when solenoid is activated.	**A.** Loose solenoid wire connection.	**A.** Check solenoid wire connection to the circuit board.
	B. Solenoid valve is not functioning.	**B.** Replace the solenoid valve assembly.

Handle Switch Troubleshooting Table

Symptoms	Probable Causes	Recommended Action
1. Handle LED is lit when the handle is closed.	**A.** Valve setscrew needs adjustment.	**A.** Refer to the ″Handle LED Adjustment″ section.
2. Handle does not return to the upright position.	**A.** Valve setscrew needs adjustment.	**A.** Refer to the ″Handle LED Adjustment″ section.
3. Water does not fully shut off.	**A.** Valve setscrew needs adjustment.	**A.** Refer to the ″Handle LED Adjustment″ section.
4. Handle LED does not illuminate when the handle is rotated open.	**A.** Loose handle switch wire connection.	**A.** Check handle switch wire connection to the circuit board.
	B. Circuit board is not functioning correctly.	**B.** Replace the cover assembly.

Troubleshooting (cont.)

Sensor Troubleshooting Table

Symptoms	Probable Causes	Recommended Action
1. Intermittent sensor operation.	**A.** Debris on the sensor lens.	**A.** Use mild soap and water to gently remove debris from the sensor lens.
	B. Sensor is detecting steam.	**B.** Rotate the spout away from the steam.
2. Handle LED is lit, but power LED is not.	**A.** Loose sensor wire connection.	**A.** Check sensor wire connection to the circuit board.
	B. Debris on the sensor wire connector.	**B.** At the circuit board, gently disconnect, clean, and reconnect the sensor wire connector.
	C. Circuit board is not functioning.	**C.** Replace the cover assembly.

Remote Control Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This Class B digital apparatus complies with Canadian ICES-003.

Warranty

Need help? Contact our Customer Care Center.

USA/Canada: 1-800-4KOHLER (1-800-456-4537), Mexico: 001-800-456-4537

For service parts information, visit kohler.com/serviceparts.

For care and cleaning information, visit kohler.com/clean.

This product is covered under the **KOHLER® Electronic Faucets, Valves, and Controls Five-Year Limited Warranty**, found at kohler.com/warranty. For a hardcopy of warranty terms, contact the Customer Care Center.