

Shower ClearMirror

Installation Instructions



Shower ClearMirror Fog-free Shower Mirrors

Models 16104-121224M, 122424M, 161624M, 181824M & Custom
March 2023

The Shower ClearMirror is UL/C-UL listed for use in the shower and tested to CSA standards. This unit is designed to be powered by a switched outlet and activated when the bathroom light or fan is switched on.

IMPORTANT INSTRUCTIONS

Only wire the Shower ClearMirror to the 24-volt plug-in power supply included with this product. Install in accordance with all applicable safety, national and local electrical codes. **Read all instructions before using the Shower ClearMirror.**





NOTICE: All installation wiring must be performed by a licensed electrician. Follow the National Electrical Code, local codes, NFPA 70-2011 as applicable.



NOTICE: Only use the power supply included with this product.



NOTICE: All wiring including new receptacles, must be performed by a licensed electrician. Follow the National Electrical Code or local codes as applicable.



WARNING: Direct plug-in power supply must be placed in a dry location outside of the shower. Outlet used must be at least three feet from the shower. Follow NEC Article 406. Failure to follow instructions could result in death or serious injury.

General Guidelines

- Extreme caution is necessary when any heater is used by or near children or disabled and whenever the heater is left operating and unattended.
- Do not operate any heater after it malfunctions. Disconnect power at service and have heater inspected by a reputable electrician before reusing.
- Do not use outdoors.
- To disconnect heater, turn controls to off using light/fan/receptacle switch, and turn power off to circuit at the main disconnect panel.
- Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
- Do not install on uninsulated exterior walls in cold climate areas.
- Do not install if product is damaged.
- Do not bend, cut, alter, submerge in water, or use for purposes other than described.
- **Mirror must be caulked or grouted into tile, flush with the tile surface.** Edges of the mirror cannot be exposed to touch.
- Consult the NEC, Article 551 for rec. vehicle installation.
- **SAVE THESE INSTRUCTIONS.**

Installation

Activate the Shower ClearMirror by a switch. You may decide to connect it to another light or fan to ensure it is turned off when not in use.

1. Before installing ceramic tile, measure for desired Shower ClearMirror height from the finished shower floor.
2. Prepare an area for the mirror and adjust for your grout lines.
3. Measure and mark the location of the mirror center.
4. Install junction box per manufacturer's instructions (see Figure 1).



WARNING: This stage requires a qualified electrician and conformance with both the National Electrical Code and local building codes. Turn off the power to the circuit connected to the light fixture at the disconnect means. Failure to do so could result in death or serious injury.

JUNCTION BOX AND WIRING

Observe electrical load requirements. Ensure total amperage does not exceed rating of the wall switch (i.e. 15-amp switch), circuit or existing wiring.

Use minimum 18-gauge wire from transformer to Shower ClearMirror connection.

1. Run power supply wires from the provided low-voltage transformer to the opening at the mirror location. The power supply wires are run in the wall (see Figure 1).
2. Ensure low-voltage junction box is installed per manufacturer's instructions.
3. Install wallboard and cut out opening for the junction box.



NOTICE: Junction box must be accessible per all applicable safety, local, and national electrical codes. Access to the junction box is gained by removing the mirror.



NOTICE: Transformer must be accessible and must have air flow. **Never put a transformer or outlet in a closed wall. Ground is not used.**

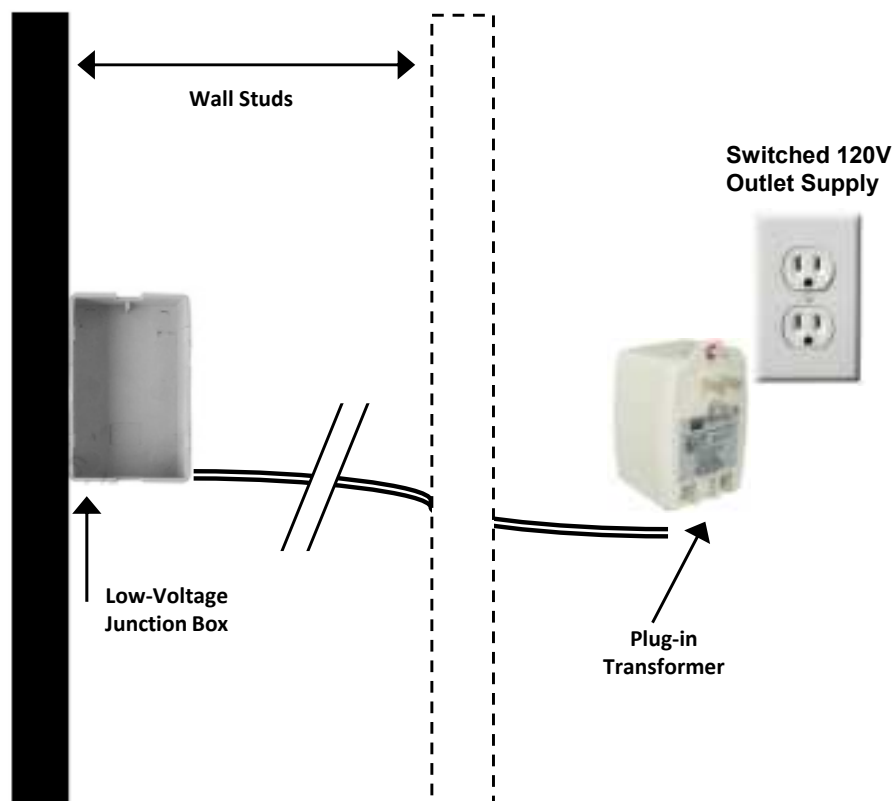


Figure 1. Locating the junction box and running low-voltage wires from the transformer (front view).



NOTICE: This stage requires two people. One to hold the mirror and another to connect the wires with UL approved wire nuts or snap connectors.

DO NOT LET MIRROR HANG FROM CONNECTED WIRES!

MOUNTING THE MIRROR

1. Install tile to the edge of your marked mirror location. Account for the grout line width to match your tile design.
2. Connect power supply wire leads to the wire leads on the mirror heater with UL-approved wire connectors. Wrap with electrical tape.
3. Position the connectors and wire leads in the low-voltage junction box.
4. Test to make sure the heater is working. It takes up to 5 minutes to heat the mirror.
5. Apply mirror mastic adhesive to the mirror back. It is safe to apply mastic on the heater.
6. Apply a **continuous bead around the entire edge** perimeter to protect mirror (see Figure 2).
7. Connect the leads from the heater to the power supply leads (polarity is non-relevant).
8. Place mirror into opening keeping a consistent border around the mirror to match existing grout lines.
9. Securely **tape and brace the mirror in place for 24 to 48 hours or until dry.**

Also watch installation video on ClearMirror.com

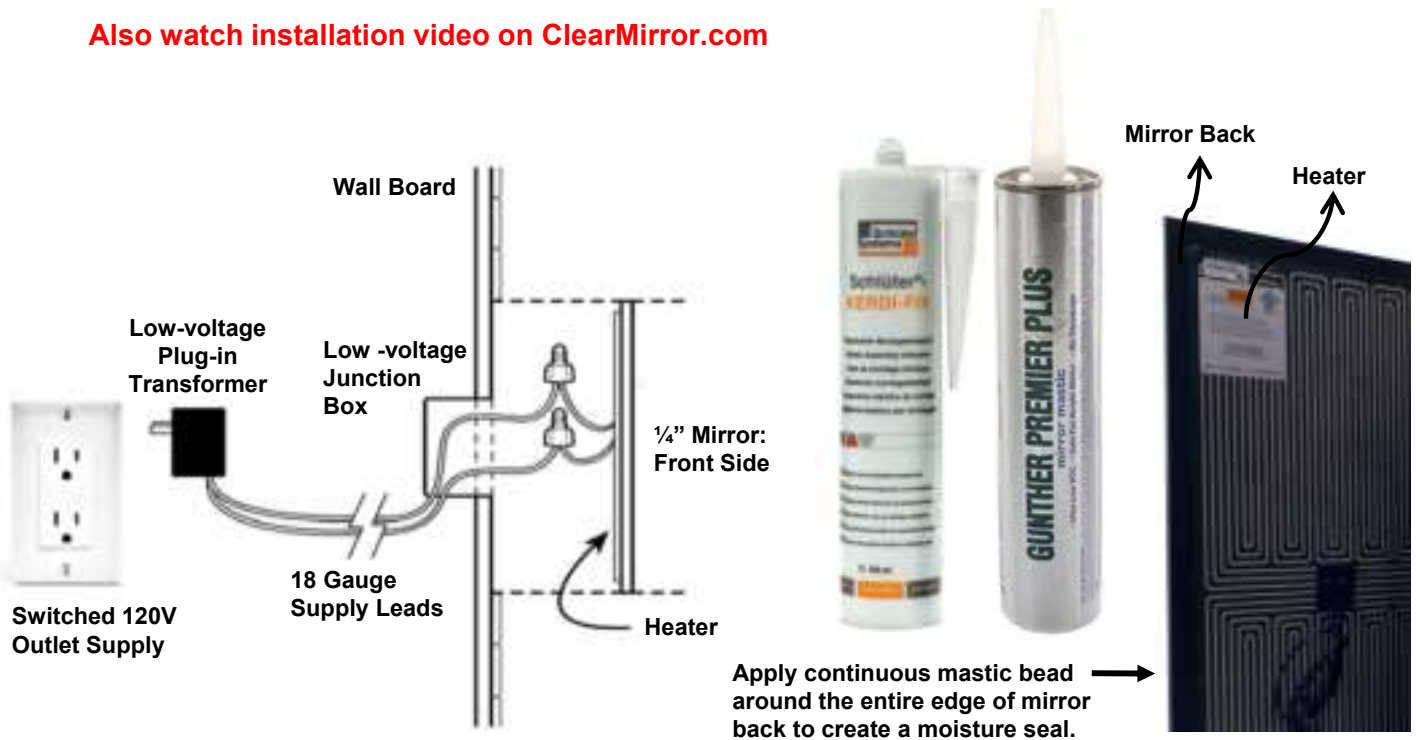


Figure 2. Connecting the wires and applying mirror mastic.

Use Premium Mirror Safe Adhesive for Best Results

To prevent damage to the mirror backing, use Gunther Premier Plus Mirror Mastic, KERDI FIX, or Wedi 610. Mastic is available from your local mirror/glass specialist or online through Amazon or CR Laurence. KERDI FIX and Wedi 610 are available online or at tile shops.

These products have a shelf life and must be purchased separately.

Other mirror mastics will work but these products are recommended. See clearmirror.com/FAQ



WARNING: Mirror must be caulked or grouted into the tile or surround complete and flush with tile surface. Back edge of the mirror cannot be exposed to touch. Failure to do so could result in electric shock or injury.

FINISHING THE MIRROR

Mirror must be mounted flush with the tile or surround.

Caulk or grout around the edges. (see Figure 3.)



Figure 3. Grout around the mirror to seal and finish.

Important Instructions

SAVE THESE INSTRUCTIONS

When using electrical appliances, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following: Read all instructions before installing or using this heater.

- Do not operate any heater after it malfunctions. Disconnect power at service panel and have heater inspected by a reputable electrician before reusing.
- Do not use outdoors.
- To disconnect heater, turn bath switch to off, and turn off power to heater circuit at main disconnect panel (or operate internal disconnect switch if provided).
- Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock or fire or damage the heater.
- To prevent a possible fire, do not block air intakes or exhaust in any manner.
- Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.

OPERATING INSTRUCTIONS

- The Shower ClearMirror assembly must be properly installed before it is used.
Allow up five minutes for the mirror to warm up, for best performance.
- The Shower ClearMirror must be installed flush with the tile with wiring fed from behind the full, wall-mounted assembly.
- Be certain that the controls are operational per the instructions in that the bathroom light, ceiling fan or alternate switch power on and power off the Shower ClearMirror.
- Do not modify the installation from within (or outside) the assembly, and do not tamper with any user-operated devices intended to reduce the risk of fire, electric shock, or injury to persons; and warn against tampering with such devices.
- Any servicing should only be done by a qualified service person.

MAINTENANCE

The Shower ClearMirror requires very little user maintenance:

- Be sure the power is turned off and the heating element (mirror surface) is cool prior to performing any of these functions.
- As necessary, clean only the surface of the mirror with an approved glass cleaner and soft cleaning cloth.
- Dampen a lint-free cloth and lightly clean the surface. Never use chlorine base, chemical glass cleaners or any abrasive material on the Mirror. Use of those cleaners or chemicals will void all warranties and guarantees. **DO NOT SPRAY MIRROR.** Heater on the back of the mirror should never be accessed and requires no cleaning.
- The mirror will not require internal or behind assembly cleaning.
- All other servicing should be performed by qualified service personnel. Call ClearMirror directly with any warranty or operational problems or concerns.

GROUNDING INSTRUCTIONS

This Shower ClearMirror assembly with a ClearMirror heater is for use on 24-volt power supply. The cord (leads) exiting the back of the mirror assembly are 18-gauge and are not required to be grounded.

WARRANTY INFORMATION

NewHome Bath & Mirror, Inc. DBA ClearMirror and its affiliates will not warranty the labor or material costs for installation, replacement or use of Shower ClearMirror when operated in an application that is lower than 50° F.

NewHome Bath & Mirror, Inc. and its suppliers cannot be held responsible for damage caused by improper installation. These installation instructions are to be used as a guide only while meeting all applicable building codes. Consult a professional installer if you have any questions.

The Shower ClearMirror product line is provided with a five-year warranty against defects in workmanship or materials. Warranty only covers replacement parts only. Improper installation and/or cleaning voids the warranty. Contact your installer or original place of purchase for issues relating to installation and replacement. Mirrors that crack after installation are not covered and the warranty is void without proof of purchase, proper installation, or if product is altered in any way.



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