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FA444 Automatic
Touchless Faucet

MAC FAUCETS FA444 Automatic Touchless Faucet User Manual

Contents

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Installation Procedure

1. Take a moment to view drawings and read "special Installation note" on page 3 of this manual before proceeding with installation. Connect Faucet Autmator model FA444 exactly as shown in drawing, with sensor cable connection at bottom. Failure to install Faucet Automator Model FA444 as shown will result in premature product failure and will void all warranties including extended warranty.
2. If using deck plate, affix plate on deck to faucet using supplied screws (most models). Install new faucet by placing sensor wire and hose (faucets with integral hose) through the hole designated for spout. Make sure that wire is not pinched or cut during installation. Cutting or severely crimping sensor wire will cause faucet to malfunction and will also void all warranties.
3. Faucets with integral hose go to step 5. Slide retainer washer over faucet shank with set screw deep placed in shank groove. Insert sensor wire through special groove in washer. Install retainer nut over faucet shank and tighten.
4. Remove the stainless steel braided hose from package, fasten to faucet shank. Go to step 6.
5. Place rubber ring (if used) at the bottom of the faucet. Affix faucet above plate (if deck plate is used). Use 2 screws, 2 nuts, and 1 retainer washer to fasten faucet to deck.
6. Locate spot on the wall that you feel comfortable installing Faucet Automator FA444. The spot selected should be within reach of braided hose and sensor wire. The selected spot should also be away from possible water contamination.
7. Mount Faucet Automator FA444 using supplied fasteners. Be careful to mount box exactly as shown in drawings with sensor receptacle towards the bottom.
8. Install shank hose to Faucet Automator's water outlet (top).
9. Align groove in sensor wire plug with pin in Faucet Automator FA444 sensor receptacle, insert plug into receptacle, fasten plug nut by hand only. DO NOT CROSS THREAD.
   Caution: Before proceeding to step 9, purge both hot and cold water lines for at least a minute each at high volume. Purging water lines clears out dirt and debris that would otherwise find its way to screen filter within the solenoid valve.
10. For single water source system install cold water supply hose to Faucet Automator's water inlet, absolutely do not substitute hot water for cold as this may lead to scalding injuries.
11. For dual water temp system install Optional mixing valve to Faucet Automator's water inlet. MAC Faucets makes 2 types of optional mixing valves, an above the sink mechanical valve and a below the sink mechanical valve. For thermostatic type valve, please consult your plumbing professional.
12. Install hot and cold water to mixing valve in no particular order.
13. Turn angle stops on. Check for leaks.

Operation:

1. Place hands under spout and directly in front of neck mounted sensor, water will begin to flow out in less than a second, water flow rate is governed by aerator and supply pressure, water temperature is governed by selection at angle stops, as well as water temperature in supply pipes.

Please remember, automatic faucets employ "presence" not "motion" sensors. An idle object placed directly underneath spout will immediately activate faucet.

2. Remove hands and water will cease to flow within 1-3 seconds depending on model of faucet and on water pressure.

3. If hands are left underneath spout for 30 or 60 seconds (depending on model), water will automatically shut off. To initiate flow again move hands away from faucet and start at step 1.

4. When attempting to run water over small objects such as tooth brush, it may be necessary to bring object closer to sensor to initiate water flow, when water begins to flow, move object back under stream of water. Once user "gets the feel" of the faucet this step may be skipped.

Battery Replacement Instructions:

Batteries should provide 12 to 24 months of reliable service depending on the make of battery used and the frequency of usage among other factors. Battery weakness is indicated by constantly flashing led light within the sensor capsule, some models might not have this added feature. When replacing batteries please follow these simple steps:

1. Unfasten four Phillips screws that dot the inner square, then proceed to step 4).
2. Hold both water fittings down and carefully remove enclosure cover.
3. Pull black battery holder out of box, and unfasten 4 Phillips screws.
4. Replace batteries with 4 AA Duracell Copper Top batteries only. Make sure that replacement batteries are all new DO NOT use old batteries. Place batteries in their proper place and position.
5. Test faucet prior to placing enclosure cover back on.
6. Place enclosure cover back on. Fasten 4 Phillips screws.

TroubleShooting:

(Always make sure that sensor lens is clean and Duracell Copper Top batteries are fresh)

Faucet does not operate, red light does not in response to approaching objects:

1. Hands are not placed properly under spout and in line with sensor.
2. Batteries need replacing. See battery replacement instructions.
3. Batteries installed improperly in battery pack, battery harness not plugged in properly, see installation instruction, and battery replacement instructions.
4. Sensor wire loose, unplugged, plugged improperly, plug sensor wire properly. Please call MAC Faucets for instructions.
5. Sink is raised above counter and blocking "sensor's vision", reinstall properly.

Faucet does not operate, red light blinks in response to approaching objects:

1. No water, very low water pressure in supply pipes, supply valves closed.
2. Water pressure very high, well above 115 PSI.
3. Screen filter severely clogged up.
4. Supply hoses severely kinked.
5. Batteries low or defective, replace batteries.

Faucet operates on and off "by itself":

1. Sensor range adjusted too long, and must be adjusted for shorter range. Please call MAC Faucets for instructions.
2. Objects (such as sink lip) may be present in close proximity to sensor.
3. (Rare) Severe transient infrared signal present in the environment, probably caused by a defective neon light.

Faucet leaks, drips:
Constant leaks or drips indicate defective solenoid valve, send Faucet Automator for repair or contact an authorized plumbing professional. Loud thump noise when faucet turns on and off. This is an issue commonly associated with diaphragm type valves such as washing machine valves, dishwasher valves, etc. The noise is generally present in the piping system.

Clear winner remedies are to:

1. Lower water flow rate (see flow rate adjustment section of this manual).
2. Install "hammer arrestors" in close proximity to your automatic faucet. Please consult a plumbing professional for this task.
3. Problem may be caused by defective angle stop. Replace angle stop.

Faucet continues to run for 30 or 60 seconds after hands are removes:
This very rare condition generally occurs due to over sensitivity on the part of the sensor, system water pressure well above 100psi, and/or bathroom lighting setting. This condition is always field curable.

1. Turn down water flow rate.
2. Replace aerator with 0.5GPM aerator (when possible).
3. Adjust sensor range to "shorter". Please call MAC Faucets for instructions.

Runaway faucet, water runs out of faucet continuously, longer than 1 minute, does not stop.
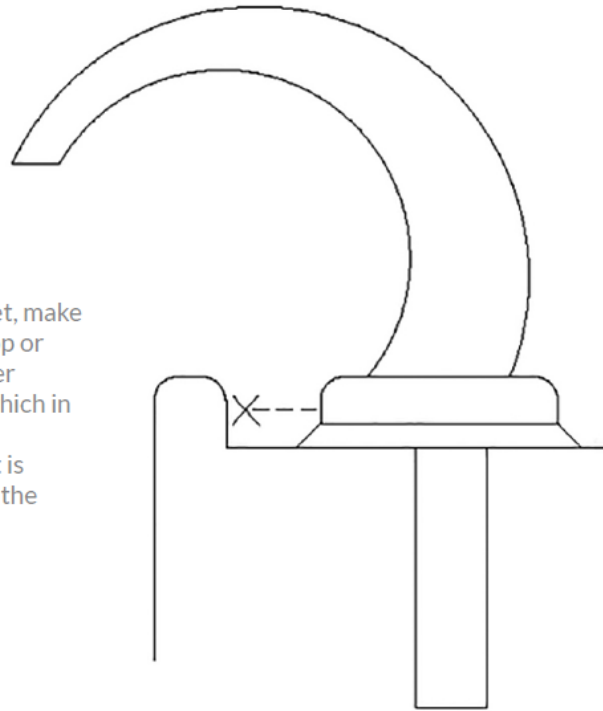
1. Make sure batteries are installed properly, if A.C., make sure that power is present at wall receptacle.
2. Make sure Faucet Automator is properly oriented on the wall, see drawings below.
3. Make sure that sensor wire from faucet is plugged into Faucet Automator.
4. Make sure that sensor wire is not cut or broken specially near mounting nut and washer immediately below deck.
5. Make sure that water is plumbed correctly into Faucet Automator, Water in to "inlet", water out from "Outlet" see Drawings.
6. If items 1 to 5 are OK, please contact Factory for more tips on your particular installation.
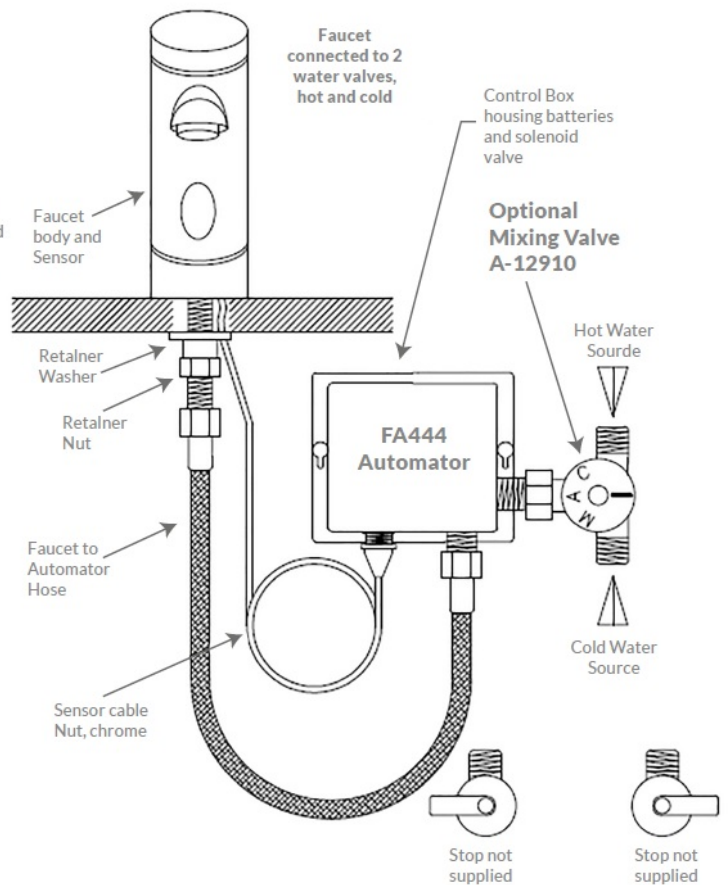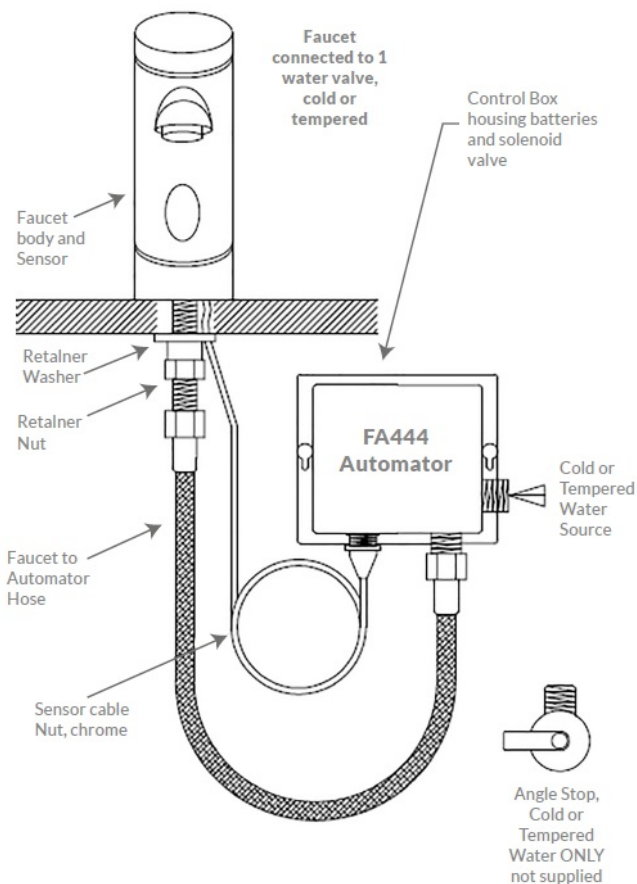
Special Installation Note

Automatic faucets are design to perform properly in a variety of applications. There are some conditions, however, that may adversely impact the faucet's ability to perform. Please note the following conditions prior to installing you new faucet:

1. Your automatic faucet is designed for indoor applications. This faucet is not designed for outdoor applications.
2. Avoid installing your new faucet in direct sunlight. Direct sunlight that is focused on sensor will temporarily disable faucet's sensing capabilities.
3. If you choose to install your faucet to one water source only, do not install to hot water only as this may result in scalding injury.
4. **Important**: Before connecting supply line to Faucet Automator, purge both hot and cold water lines for at least one minute each at high volume. Purging water lines clears out dirt and debris that would otherwise find its way to screen filter within the solenoid valve.
5. **Important**: Avoid using pipe putty on water connection to faucet. Pipe putty may cause immediate and irreversible damage to solenoid valve. Please use Teflon tape instead.
6. **Important**: If you do not plan on using faucet immediately after installation (within 90 days of installation), disconnect water supply lines to faucet and unload the water pressure that may be present in faucet. This will keep new solenoid valve components from bonding together under high pressure.

When installing your automatic faucet, make sure that sink in flush with counter top or below it. If sink is raised above counter surface it may block the sensor eye which in turn causes faucet to malfunction.
If your application calls for a sink that is raised above counter, make sure that the faucet is elevated at the same level.

Installation Drawings

Faucet connected to 1 water valve, cold or tempered

Control Box housing batteries and solenoid valve

Faucet body and Sensor

Retalner Washer

Retalner Nut

FA444 Automator

Cold or Tempered Water Source

Faucet to Automator Hose

Sensor cable Nut, chrome

Angle Stop, Cold or Tempered Water ONLY not supplied

Faucet connected to 2 water valves, hot and cold

Control Box housing batteries and solenoid valve

Faucet body and Sensor

Optional Mixing Valve A-12910

Retalner Washer

Retalner Nut

FA444 Automator

Hot Water Sourde

Faucet to Automator Hose

Sensor cable Nut, chrome

Cold Water Source

Stop not supplied

Stop not supplied

Limited Warranty

Mac Faucets warrant this faucet to be free of defects for a period of one year from date of purchase. Mac Faucets will replace, free of charge, during this warranty period, parts that prove defective when properly installed and under normal use and service. Damage that occurs as a result of abuse, improper installation, environmental conditions, or improper application will void this warranty. Products must be shipped with postage and handling prepaid, along with dated proof of purchase. This warranty does not cover installation or any other labor charges. it does not cover shipping and handling of both replacement parts and returned defective parts. Products or components that have been altered or in any way modified will not be covered under this warranty. Replacement parts are under warranty only for the remaining period under the initial warranty. Some states do not allow for exclusion of incidental or consequential damage.
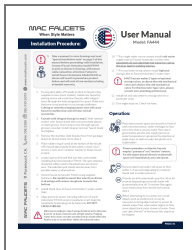
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Documents / Resources

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FA444 Automatic Touchless Faucet, FA444, Automatic Touchless Faucet, Touchless, Faucet

References

- **User Manual**