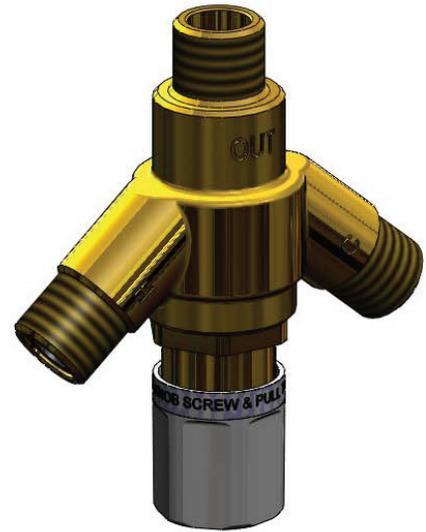




EC-TMV & 5EF-TMV Thermostatic Mixing Valve Installation Instructions



Models EC-TMV and 5EF-TMV are a direct replacement Thermostatic Mixing Valve (TMV) for the Mechanical Mixing Valve used on ChekPoint (EC) and Equip (5EF) Electronic Faucets. These TMV's are tested and certified to ASSE 1070. These TMV's will control and limit the temperature of tempered water to the faucet. They are equipped with an adjustable and lockable means to limit the maximum outlet temperature with the intention of reducing the risk of scalding.

NOTE: This device is pre-set for approximately 100°F (38°C). This device must be adjusted, verified and locked to a specific maximum temperature at the time of installation.

TOOLS NEEDED

Adjustable wrench
#2 Phillips Screwdriver
Thermometer

INSTALLATION

1. Turn off Hot and Cold water supply to the faucet.
2. Disconnect the Hot and Cold flex supply hoses at the mechanical mixing valve.
3. Loosen and unscrew the swivel nut connecting the Mechanical Mixing Valve to the fitting on the Control Module.
Remove the Mechanical Mixing Valve.
4. Install the Filter Washers supplied with the TMV in the Hot (H) and Cold (C) inlets of the TMV.
5. Install the outlet side of the TMV (OUT) into the swivel nut connection on the Control Module and tighten.
6. Connect and tighten the Hot and Cold flex supply hoses to the corresponding Hot and Cold inlets of the TMV.
7. Turn on Hot and Cold water supply and check for leaks.

ADJUSTMENT

1. Activate the faucet several times until the outlet water temperature stabilizes. Check the temperature with the thermometer (Caution - the outlet temperature may be excessively hot).
2. Loosen the Phillips head screw in the TMV knob approximately 6 turns and pull the knob. It should now turn.
If not, loosen the screw a little more until the knob turns.

3. Turn the knob to adjust the outlet water temperature to the desired comfort. It is recommended that the outlet temperature does not exceed 118°F (48°C) to reduce the risk of scalding. To decrease the temperature, turn the knob so more blue is seen on the color band. To increase temperature, turn the knob so more red is seen on the color band. Continue activation and adjustment until the water temperature has stabilized at the desired setting.
4. Push the knob back and tighten the screw to lock the temperature setting.

Limited One Year Warranty

T&S warrants to the original purchaser (other than for purposes of resale) that such product is free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this one-year warranty period, if the product is found to be defective, T&S shall, at its options, repair and/or replace it. To obtain warranty service, products must be returned to...

*T&S Brass and Bronze Works, Inc.
Attn: Warranty Repair Department
2 Saddleback Cove
Travelers Rest, SC 29690*

Shipping, freight, insurance, and other transportation charges of the product to T&S and the return of repaired or replaced product to the purchaser are the responsibility of the purchaser. Repair and/or replacement shall be made within a reasonable time after receipt by T&S of the returned product. This warranty does not cover Items which have received secondary finishing or have been altered or modified after purchase, or for defects caused by physical abuse to or misuse of the product, or shipment of the products.

Any express warranty not provided herein, and any remedy for Breach of Contract which might arise, is hereby excluded and disclaimed. Any implied warranties of merchantability or fitness for a particular purpose are limited to one year in duration. Under no circumstances shall T&S be liable for loss of use or any special consequential costs, expenses or damages.

Some states do not allow limitations on how long and implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Specific rights under this warranty and other rights vary from state to state.

T&S Brass and Bronze Works, Inc. · 2 Saddleback Cove · P.O. Box 1088 · Travelers Rest, SC 29690
www.tsbrass.com · E-mail: tsbrass@tsbrass.com · Phone (800) 476-4103 · Fax (800) 868-0084

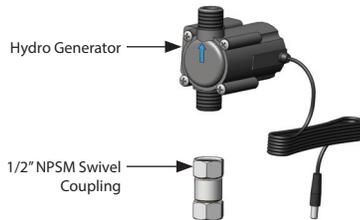
West Coast Sales and Distribution · 4596 Ish Drive · Unit 220
Simi Valley, CA 93063 · Phone (800) 423-0150

098-018460-45	Rev. 0
Drawn	TEH 07-31-12
Checked	GEF 08-01-12
Approved	JHB 08-01-12

EC-HYDROGEN

Installation Instructions

For ChekPoint Models with Below Deck Temperature Mixing Valves

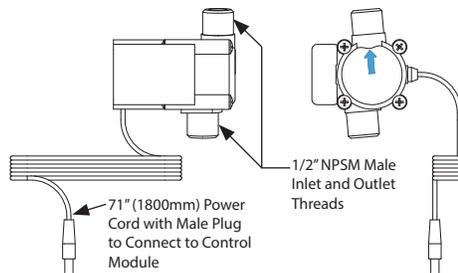


NOTE: If installing to an existing ChekPoint faucet which is in use, shutoff the water at the supply stops and unplug and disconnect the power supplies (the plug-in wall transformer) and disconnect any external power sources to the control module. The 4 AA batteries may be left installed if desired.

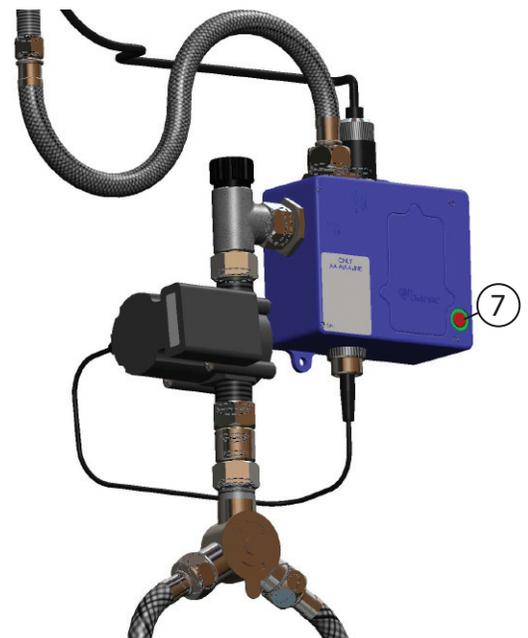
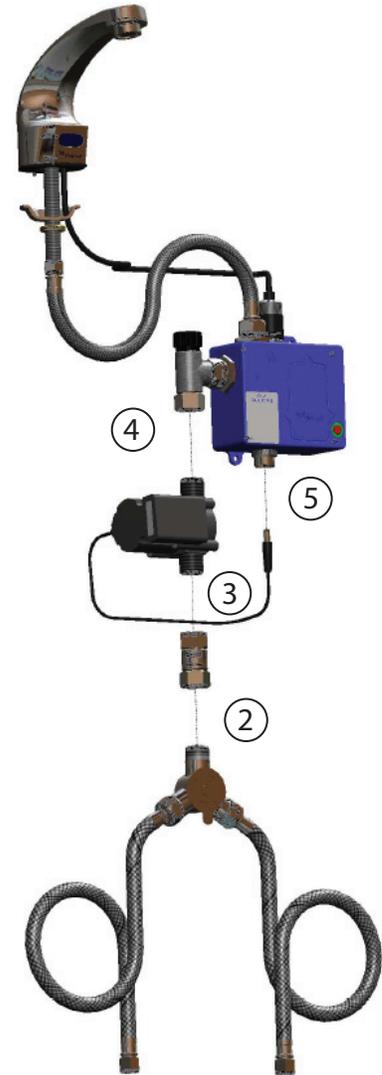
1. Disconnect the mixing valve from the fitting on the control module.



2. Install the 1/2 NPSM swivel coupling onto the outlet (top) of the mixing valve.
3. Install the Hydro Generator to the coupling making sure the blue arrow on the side of the unit is pointing up or toward the control box fitting.

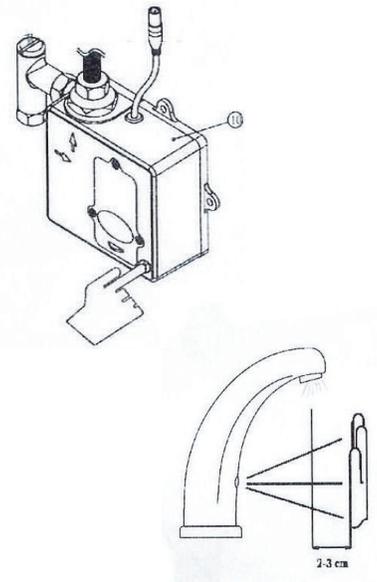


4. Install the outlet end of the Hydro Generator to the fitting on the control module.
5. Plug in the power cable for the Hydro Generator into the bottom of the controller (where the wall transformer previously plugged in).
6. Open the supply stops. The faucet should be ready for service.
7. The sensor distance may need to be readjusted on your ChekPoint unit should the range seem inadequate. See next page for sensor range setup.



SENSOR RANGE SETUP

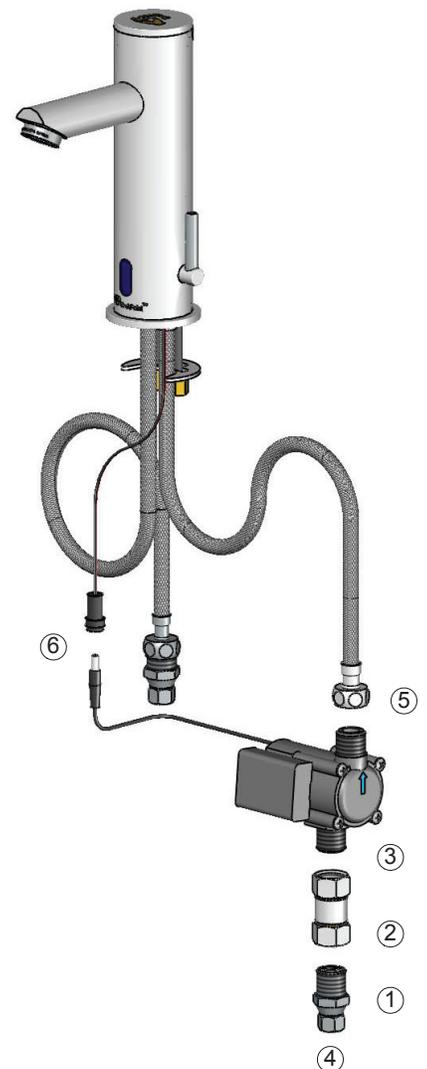
1. AF-serial sensor range can only be set by using the on/off button situated on the bottom right corner of the control box. Do not attempt to open control box.
2. Push and hold the on/off button for 5-7 seconds. Water flow will stop and the red LED light inside the electronic eye will blink on. Release the on/off button. The LED should turn itself off, signaling that the faucet is ready for setup.
3. Place and hold your hand at the desired sensor distance. The LED will turn "ON".
4. Use the other hand to press the on/off button. The LED will flash 5 times to save the new sensor range setting.
5. The default sensor range is 5-1/2" (14cm). Sensing distance is adjustable from 3/4" (2cm) to 5-1/2" (14cm).



For ChekPoint Models with Above Deck Temperature Mixing Valves

Note: If installing to an existing ChekPoint faucet which is in use, shut off the water at the supply stops and unplug and disconnect the plug-in wall transformer if in use. The batteries located within the body may be left installed if desired. (See the applicable ChekPoint faucet manual for instructions on accessing the batteries.)

1. Disconnect the faucet cold water flexible supply line from the check valve adapter. The check valve adapter can stay connected to the cold water supply stop if already connected.
2. Connect the check valve adapter to the 1/2" NPSM swivel coupling supplied with the Hydro Generator.
3. Connect the other end of the 1/2" NPSM swivel coupling to the inlet on the bottom of the Hydro Generator. Note the blue flow direction arrow on the side of the Hydro Generator.
4. Connect the check valve adapter swivel end to the cold water supply stop if not already connected from step 1.
5. Connect the outlet on top of the Hydro Generator to the faucet cold water flexible supply line.
6. Connect the power cable from the Hydro Generator to the wire connector coming from the faucet bottom (wire may be wound and tucked into the opening in the faucet bottom).
7. Should the ChekPoint faucet sensor range need adjustment, refer to the applicable ChekPoint faucet manual for instructions.



Limited One Year Warranty

T&S warrants to the original purchaser (other than for purposes of resale) that such product is free from defects in material and workmanship for a period of one (1) year from the date of purchase. During this one-year warranty period, if the product is found to be defective, T&S shall, at its options, repair and/or replace it. To obtain warranty service, products must be returned to...

*T&S Brass and Bronze Works, Inc.
Attn: Warranty Repair Department
2 Saddleback Cove
Travelers Rest, SC 29690*

Shipping, freight, insurance, and other transportation charges of the product to T&S and the return of repaired or replaced product to the purchaser are the responsibility of the purchaser. Repair and/or replacement shall be made within a reasonable time after receipt by T&S of the returned product. This warranty does not cover Items which have received secondary finishing or have been altered or modified after purchase, or for defects caused by physical abuse to or misuse of the product, or shipment of the products.

Any express warranty not provided herein, and any remedy for Breach of Contract which might arise, is hereby excluded and disclaimed. Any implied warranties of merchantability or fitness for a particular purpose are limited to one year in duration. Under no circumstances shall T&S be liable for loss of use or any special consequential costs, expenses or damages.

Some states do not allow limitations on how long and implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Specific rights under this warranty and other rights vary from state to state.

T&S Brass and Bronze Works, Inc. · 2 Saddleback Cove · P.O. Box 1088 · Travelers Rest, SC 29690
www.tsbrass.com · E-mail: tsbrass@tsbrass.com · Phone (800) 476-4103 · Fax (800) 868-0084

West Coast Sales and Distribution · 4596 Ish Drive · Unit 220
Simi Valley, CA 93063 · Phone (800) 423-0150

098-017579-45 Rev. 2
 Drawn TEH 12-10-14
 Checked DMH 01-20-15
 Approved JHB 01-23-15