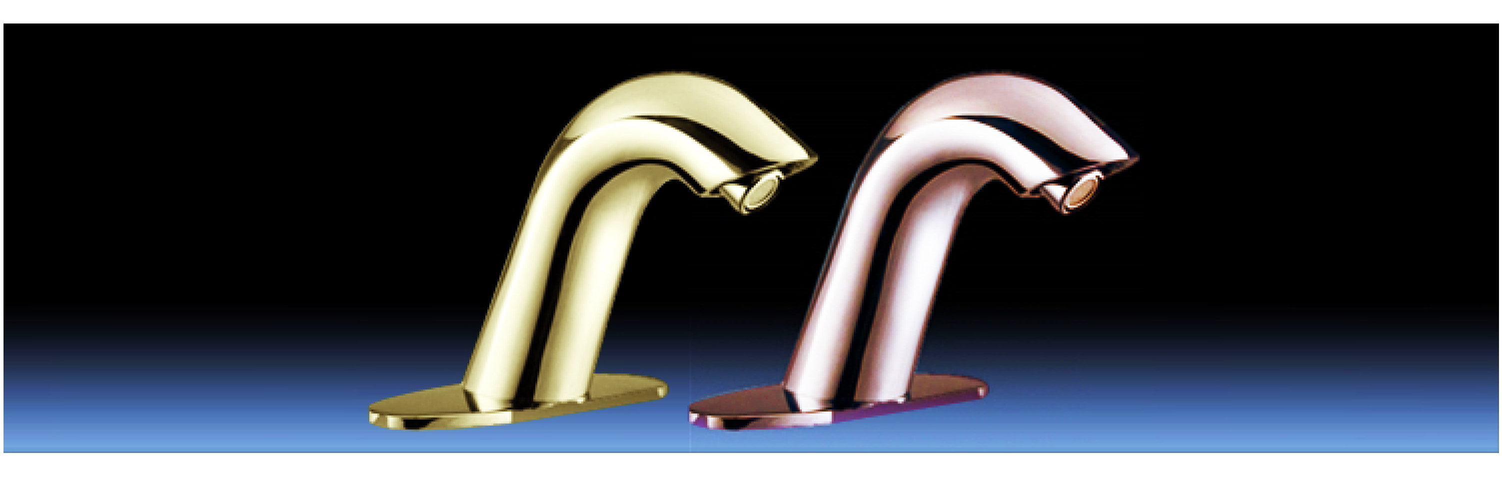
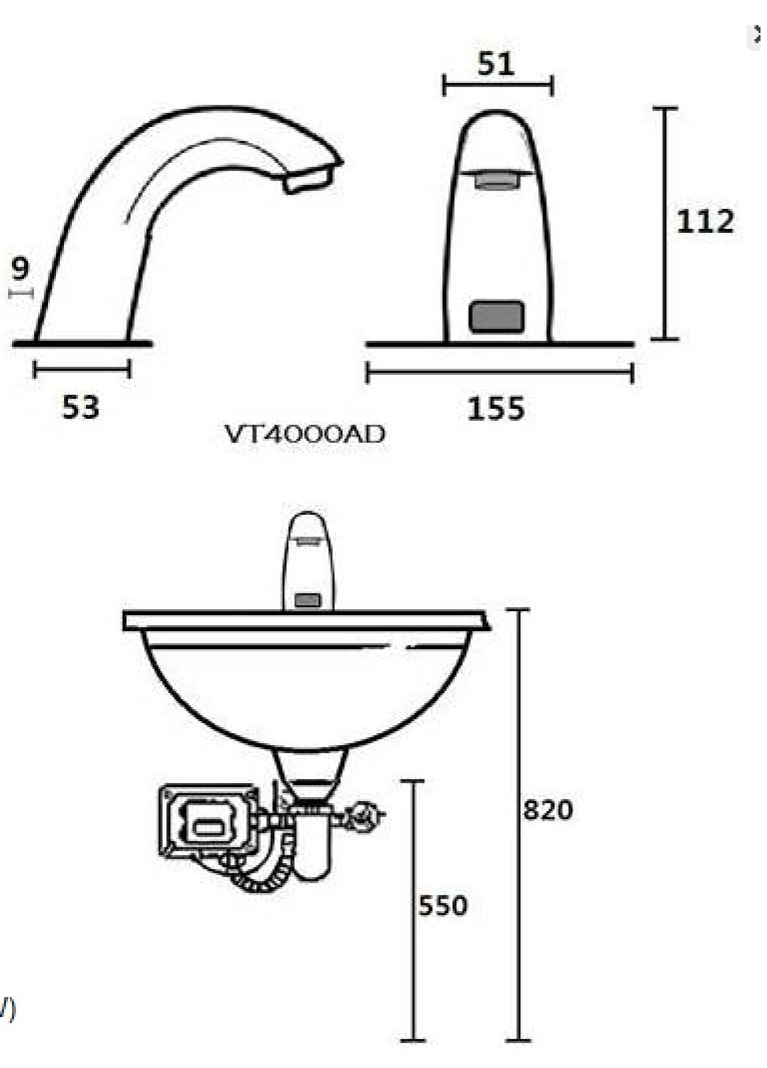
# Conto Automatic Hands Free Faucet D507
# (also available in ORB or Gold Finish)



## INSTALLATION INSTRUCTIONS



**MODEL: VT4000D**

**SPECIFICATIONS:**

**BODY:** INNER BRASSCHROME PLATED,

**POWER SOURCE:** DC (6V)

**POWER CONSUMPTION(Static):** DC (0.5mW)

**DETECTION ZONE:** 15-20cm

**WATER PRESSURE:** 0.05 – 0.8 Mpa

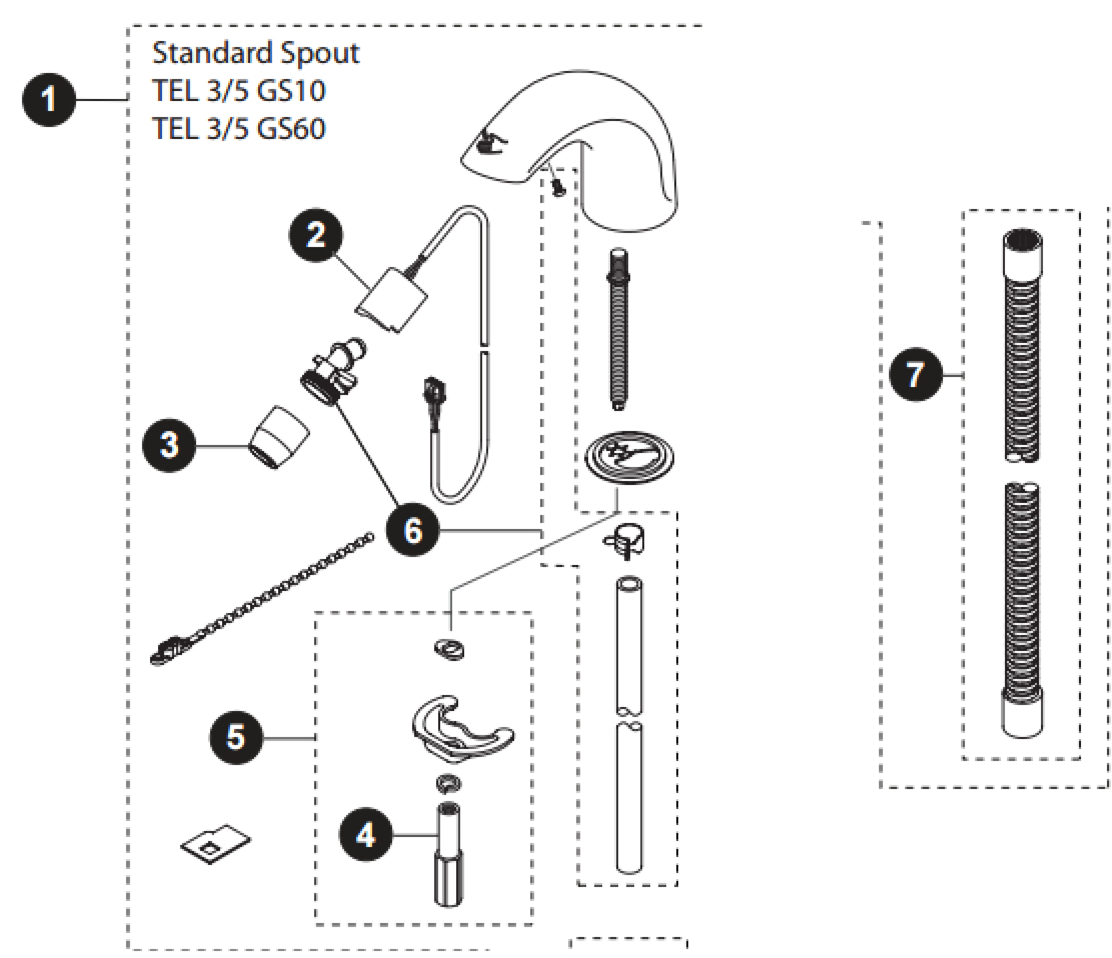
**DIAMETER OF INLET PIPE:** G1/2"

**AERATOR FLOW TYPE:** LAMINAR/SPRAY FLOW

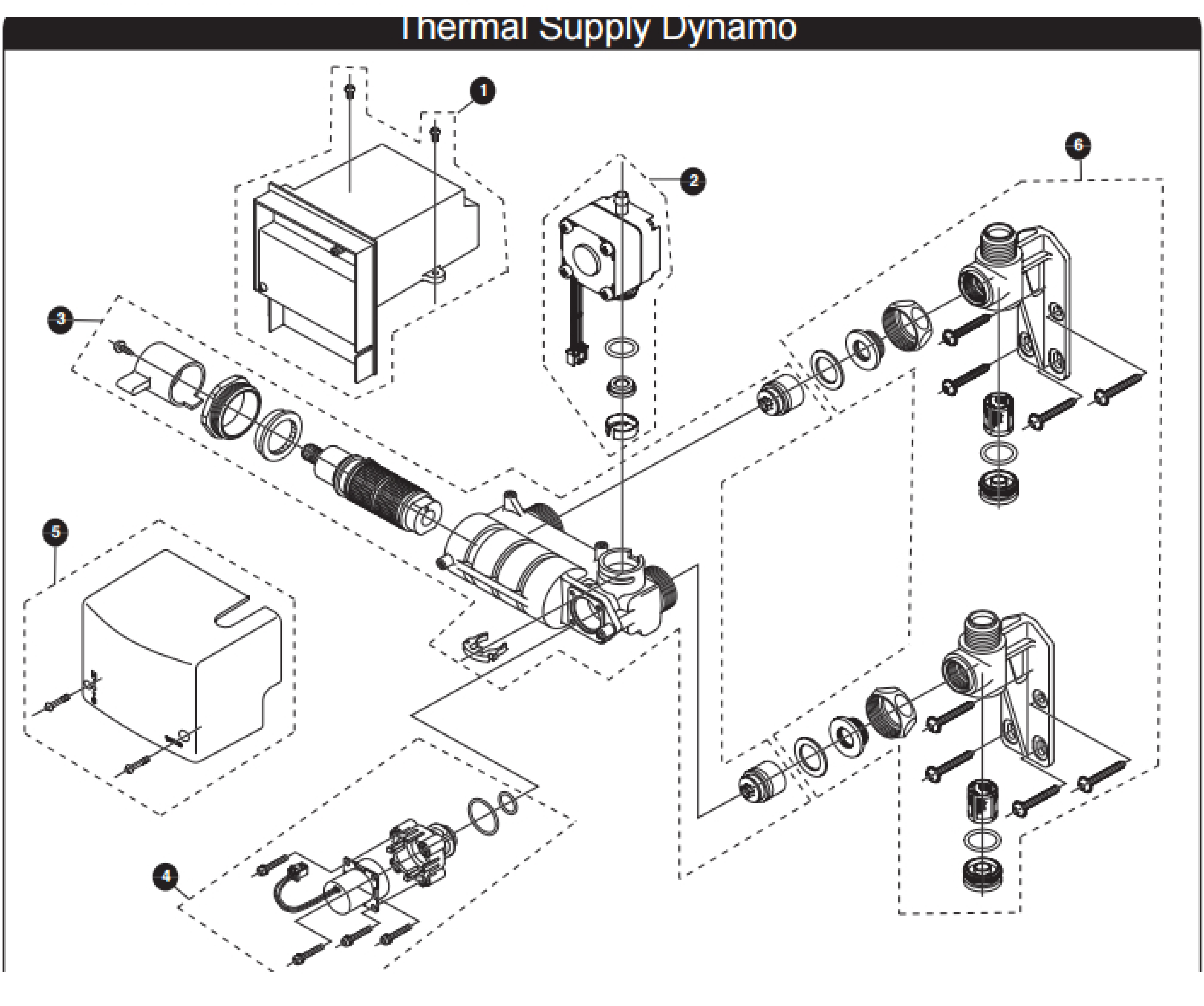
## BEFORE INSTALLATION

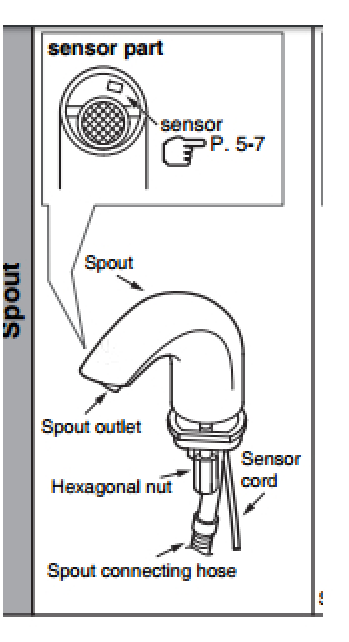
- Observe all local and plumbing codes.
- Check the cold and/or hot water supply pressure.
  - The recommended working pressure range is 20psi - 80 psi (138kPa - 551kPa). If the supply pressure is higher than 80 psi (551kPa), reduce to within recommended range by using a pressure reducing vavle (sold separatery).
- Check the temperature of the water supply.
  - The recommended supply temperature range is 39°F - 104°F (4°C - 40°C)
  - Never use steam as a hot water supply.
- Flush all water lines prior to installation.
- Other precautions before you begin:
  - Pay special attention so that the sensor surface is not flawed or scratched during the installation process.
  - Make sure that all pipework, stop valves, and connection lines are installed according to local codes.
  - Do not place other devices that use an inverter or infrared sensor near the faucet, as this may cause the faucet to malfunction.

Water pressures over 80 psi are not recommended for most plumbing fixtures. Check your local plumbing code for details.



## Thermal Supply Dynamo





## INSTALLATION PROCEDURE

Install the Controller

NOTE: Before installing the product, be sure to thoroughly flush the supply pipes of dirt and debris. Shut off the water supply at the stop valves after flushing.

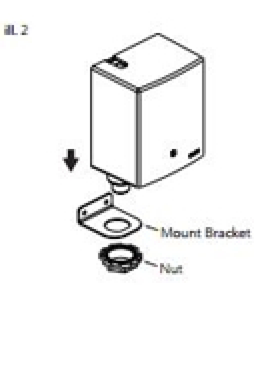
1. See the rough-in dimension page to determine the proper location for the controller.
2. Remove the screws on the front of the controller cover and pull to remove.
3. Mount the bracket on the wall. If necessary, use wall anchors (see ill. 1).
4. From the top, place controller into the hole in the bracket. From below the bracket, fasten the large nut to secure the controller (see ill. 2).

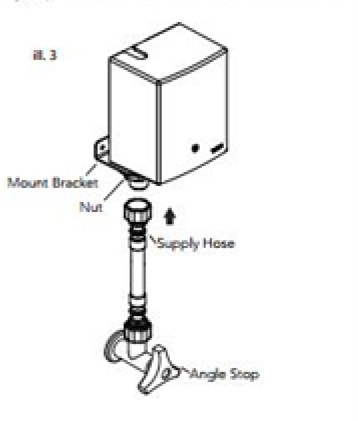
IMPORTANT!
Be sure to install controller in the correct orientation as shown. Otherwise, product will not function properly.

5. Connect the water supply line to the inlet adapter (see ill. 3).

NOTE: If using a thermostatic valve (sold separately), please refer to its installation manual for details.


ill.1


ill. 2

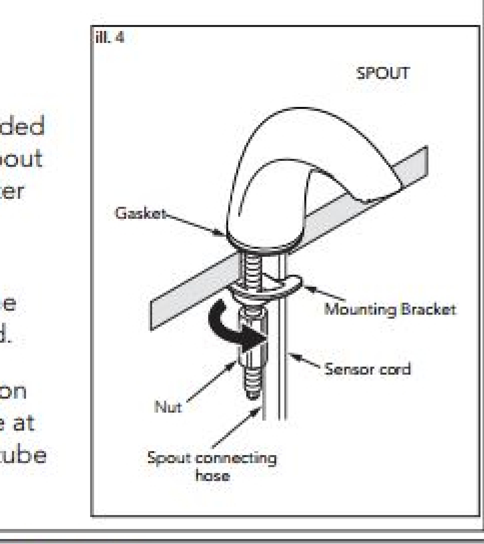

ill. 3

Install the Spout

To Install Deck-Mounted Models (ill. 4):
Secure the spout to the countertop with the included bracket and hexagonal nut. Make sure that the spout is mounted with the tip directed towards the center of the basin.

To Install Helix Wall-Mounted Models (Ill. 5 & 6):
NOTE: The addition of a 2 x 4" framing behind the spout installation location is highly recommended.

1. Place mounting template on wall at desired location and mark all holes. Drill a 5/8" (16mm) diameter hole at the spout mounting location (center) for the supply tube and sensor cord to pass through.

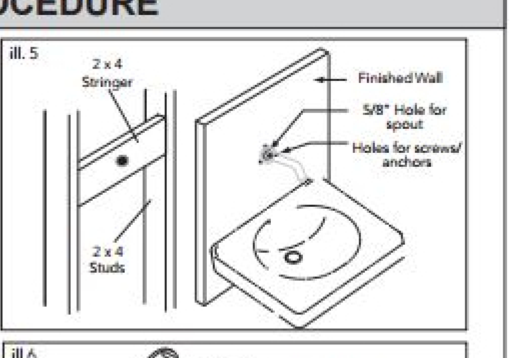

ill. 4

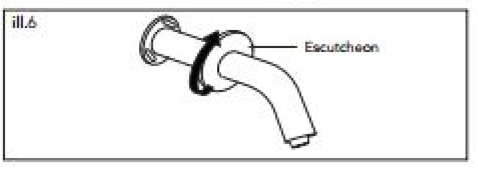
## INSTALLATION PROCEDURE

2. For fastening to wood , drill three (3) pilot holes 7/64" (2.7mm) in diameter at marked locations.

   For fastening to drywall or tile , drill three (3) holes 3/16" (5mm) in diameter and insert anchors until fush. Tap lightly with a hammer if needed.

3. Feed the supply tube and sensor cord through the 5/8" (16mm) hole in center. Place spout against wall and fasten securely with the provided screws.
4. Fasten the escutcheon to the bracket until hand-tight.


ill. 5


ill.6

To Install Gooseneck Wall-Mounted Models (Ill. 7, 8 & 9):
NOTE: The addition of a 1 x 6" or plywood bracing behind the mounting location is highly recommended for drywall/hollow wall installations. The overall maximum wall thickness is 2" (50mm).

1. Drill a 1-1/8" (29 mm) hole at the desired location for the mounting bracket. Put the mounting bracket through a hole in the wall with the set screw hole located at 12 o'clock. Mark the location of the set screw hole on the wall and remove the mounting bracket.

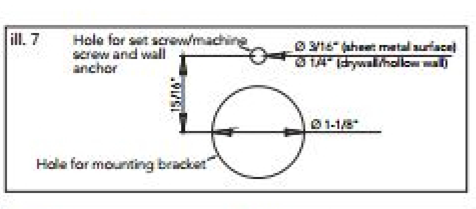
For sheet metal surface: Drill a 3/16" (5mm) hole at the marked location.

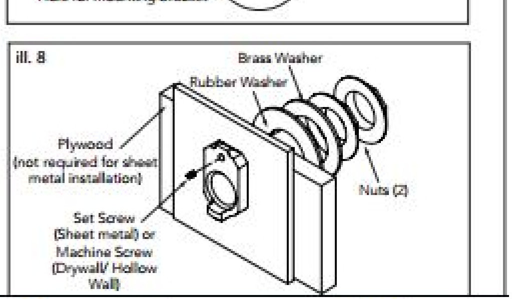
NOTE: Drill bits (not supplied) for hard materials

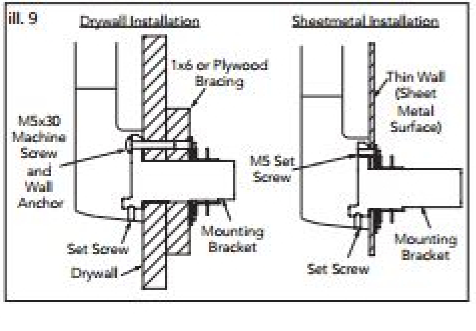
For a drywall/hollow wall surface: Drill a 1/4" (6.5 mm) hole at the marked location, and install the included wall anchors.

NOTE: Confrmation of wall strength is highly recommended before drilling.

2. Install the mounting bracket using the rubber washer, brass washer, and both brass nuts on back side of the installation surface. Install the included set screw (for sheet metal installation) or 30 mm machine screw (for drywall installations).
3. Pass the hose and sensor cord through the mounting bracket, slide the spout base over the mounting bracket and tighten the set screw to secure the spout to the mounting bracket.


ill. 7


ill. 8


ill. 9

## INSTALLATION PROCEDURE

Connect the Spout to the Controller

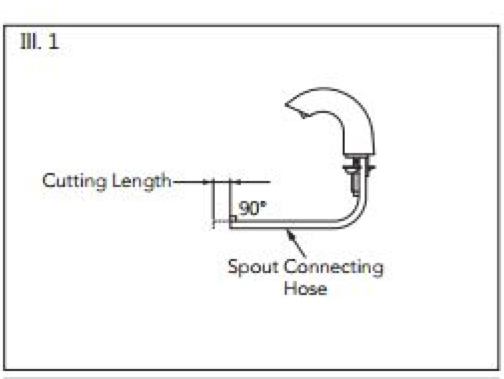
1. If the spout connecting hose is too long, cut it to the appropriate length, making sure the end is square. (see Ill. 1).
2. Push the spout connecting hose onto the outlet barb of the controller and secure it with the hose clamp (see Ill. 2). Make sure that the hose clamp is placed fully against the controller.
3. Connect the backup battery connector to the controller. Make sure there are no obstructions between the sensor and the basin, then connect the spout sensor connector to the controller. (see Ill. 3)

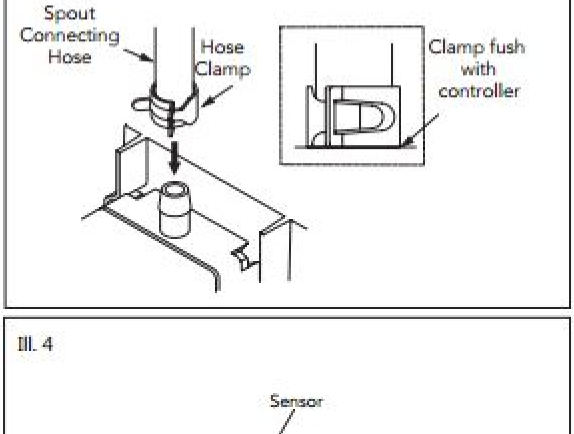
IMPORTANT!
The faucet will begin an automatic sensing range adjustment immediately after the sensor connector is plugged into the controller. Do not place your hands or other objects in front of the sensor.This process may take up to 20 seconds to complete.

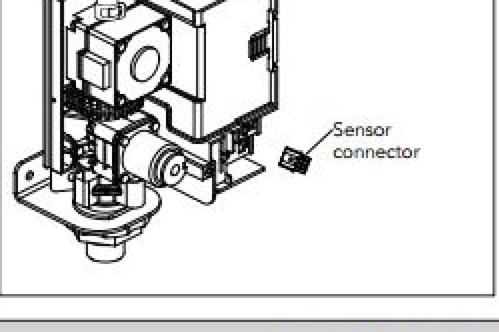
- If the sensor light continues to fash for more than 20 seconds, the spout direction will need to be readjusted for proper operation. If adjustment is necessary, you must do it within 10 minutes or the adjustment process will end. To restart the process, unplug the sensor connector for 10 seconds, then reconnect it.

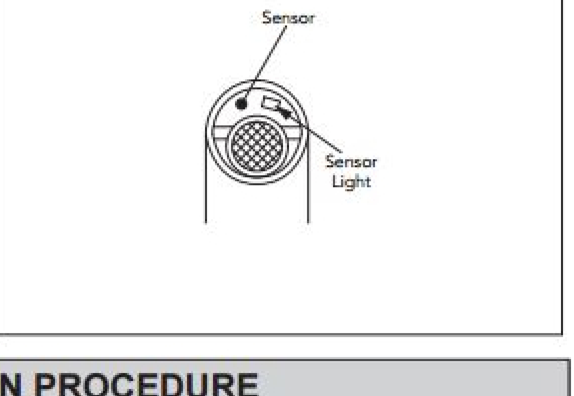
4. Double-check all connections, then re-install the controller cover, securing it with the screws.

WARNING: Draw the sensor cord from the bottom of the controller while installing the controller cover to ensure that the cord is not pinched.


Ill. 1


Ill. 2

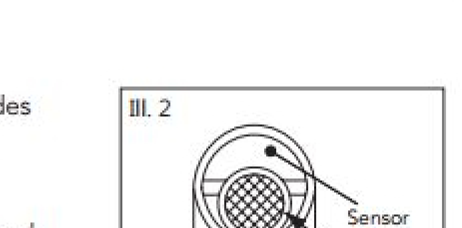

Ill. 3


Ill. 4

## INSTALLATION PROCEDURE

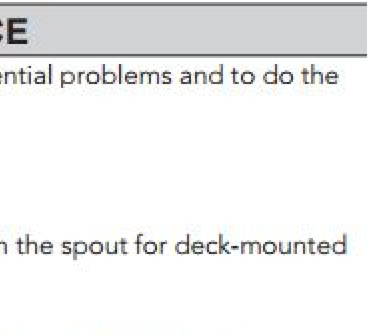
Testing after installation

- Turn on the water supply at the stop valves and inspect all the connections for any leaks (see Ill. 1).
- Place hand under the sensor to activate.
- For 10 sec model: water will stop after 10 seconds while your hand is under the sensor. Water will stop when you remove your hand. For 20 sec model: water will stop after 20 seconds.


Ill. 1

## CARE & CLEANING

- IMPORTANT! Do not scratch the sensor when cleaning the spout (see Ill. 2).
- Never use polishing powder, detergent that includes coarse particles, thinners, benzene, acids, alkaline detergents, or nylon scrub brushes, as they can damage the surface of the spout.
- To safely clean the surface, wipe it using a dampened soft cloth with diluted dishwashing detergent and dry it with another soft cloth. If this does not adequately clean the surface, wipe the area with a neutral detergent and wet cloth.


Ill. 2

## PERIODIC MAINTENANCE

Check your faucet at least once a month for the following potential problems and to do the following maintenance procedures:

Inspect for Leakage
- Check all water connections for signs of leakage.

Tighten the Spout
- If the spout is loose, tighten the hexagonal nut underneath the spout for deck-mounted models.

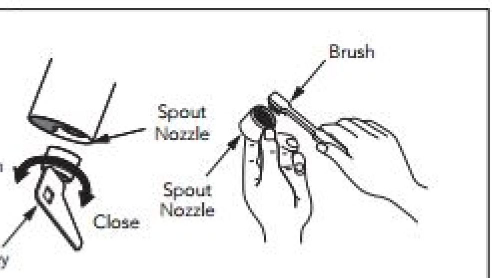
To tighten the Helix Wall-Mounted Spout:
1. Unscrew the escutcheon, tighten the three screws securing the mounting bracket to the wall.
2. Reinstall escutcheon.

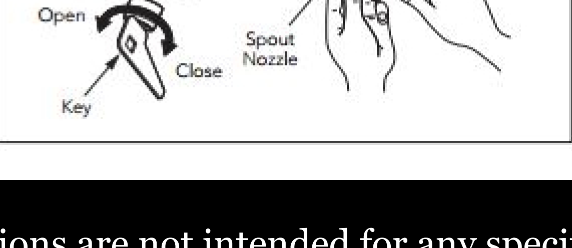
To tighten the Gooseneck Wall-Mounted Spout
1. Turn off the water supply at the stop valves and disconnect the spout connecting hose from the controller.
2. Remove the spout from the mounting bracket by removing the set screw on the bottom of the spout base.
3. Tighten the set screw on the back of the spout, then reinstall the spout on the mounting bracket.
4. As required, ensure the set screw on the mounting bracket and mounting nuts behind the sink/wall (refer to "Install the Spout" section) are tight.

Cleaning the Inlet Strainer and Nozzle
- When the inlet strainer is clogged, the flow rate will decrease. Decreased flow rate can lead to insufficient power generation, which will deplete the backup battery prematurely.
- To clean the strainer (see Ill. 1):
  1. Turn the water off at the stop valves.
  2. Remove controller cover and then remove quick fastener.
  3. Remove contorller.
  4. Remove strainer and clean it with a brush.
  5. Re-install the clean strainer.

  IMPORTANT!
  Be sure to install fow regulator in the correct orientation as shown. Otherwise, product does not function properly.

  6. Re-install the controller into the adaper until fully seated, and secure it with the quick fastener.
  7. Re-install cover, securing it with the screws.
  8. Open angle stop and check all connections.
- To clean the nozzle (see Ill. 2):
  1. Remove the nozzle from the spout with the suppplied tool.
  2. Clean the nozzle with a soft brush to remove any dirt from the screen.
  3. Re-install the nozzle in the spout.


Ill. 1


Ill. 2

This General diagram and installation instructions are not intended for any specific model, but is presented as a general guideline for Installations!