

Installation should be in accordance with local plumbing and electrical codes.
FLUSH ALL PIPES THOROUGHLY BEFORE INSTALLATION.

INSTALLATION AND SET UP INSTRUCTIONS

FOR SURFACE MOUNT HOUSING: CONTROL BOX #0

STEP 1. FAUCET INSTALLATION

Connect 20" braided hose to spout inlet. Mount faucet to sink using nut(s) and washer(s) provided. **(Fig. 1) NOTE: Use clear silicone sealant between faucet and lavatory to prevent water from leaking beneath lavatory.**

STEP 2. BATTERY BOX INSTALLATION

Mount battery box to wall under sink using the 4 supplied screws and anchors. Use 1/4" drill for wall anchors. **Be sure to install the box within the dimensions provided so the hose and spout cable will reach connections at faucet and battery box. Refer to illustration (Fig. 2).**

STEP 3. FLUSH SYSTEM

To flush supply line, assemble these components as shown **(Fig. 3)** and run water for 1 minute. Shut off water supply. Attach aerator. **NOTE: Do not connect supply to the solenoid inlet until line is flushed directly out spout.**

STEP 4. CONNECT WATER SUPPLY

Disassemble the components, reassemble the ones shown here **(Fig. 4)** supply line and adaptor to the bottom fitting on box, braided hose to the top fitting on box. Use Teflon® tape where indicated on adaptor. Turn on water supply. **DO NOT SOLDER CONNECTIONS!**

STEP 5. POWER UP

Unscrew the battery box lid screws (2). Install 4 "C" batteries in holder or snap the battery clip directly to the optional 24 VAC converter.

BATTERY VERSION Install four "C" batteries provided into the battery holder. After the batteries are installed, make the sensor connection on the driver board neatly inside the battery box. Connect battery clip to battery pack. One beep should occur to indicate power is applied. Two beeps indicate product is ready to use. Use caution not to damage wires or components on electronic driver board. **See Fig. 5.** Secure lid using screws.

HARDWIRE VERSION Install CSA and/or UL approved Class 2 transformer or equivalent in a convenient location or in a pipe chase. **(Do NOT install the transformer inside the control box.)** With the power off, bring the 24 VAC supply wires to the box. Connect the 24 VAC supply to the 060683A conversion kit, (See Page 1.) Connect the battery snap of the hardwire converter to the driver board battery clip. Turn on power supply for the transformer and then make the sensor connection on the control module neatly inside the battery box.

STEP 6. PREPARE SINK AREA

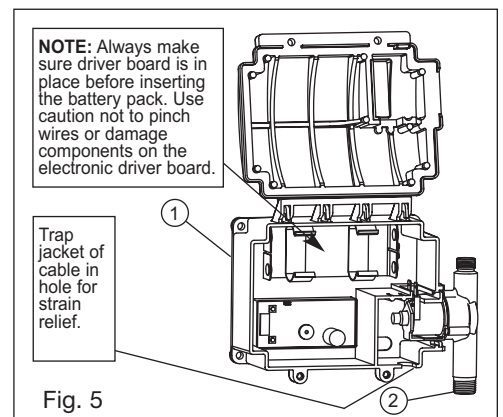
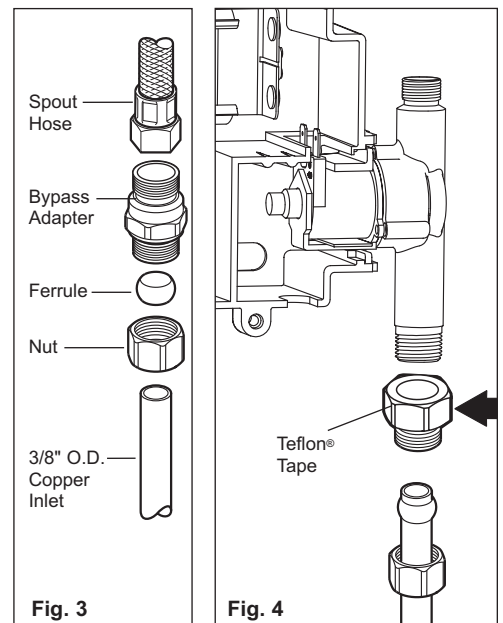
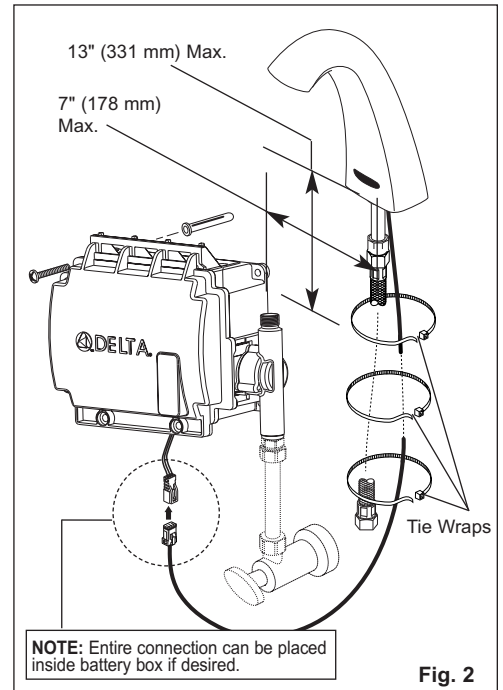
Before connecting the spout cable – clean off counter and remove all objects from the sink.

STEP 7. TIE SPOUT CABLE

Attach spout cable to box connector. Use tie wraps to secure spout cable to spout hose. Your faucet is now ready for use. **(Fig. 2)**

STEP 8. TEST FOR OPERATION

Test for operation. If faucet leaks from spout outlet: SHUT OFF WATER SUPPLIES. Replace Battery Box Assembly (1) If faucet exhibits very low flow: A. Remove and clean Spray Outlet or B. SHUT OFF WATER SUPPLY. Clean or replace Screen Assembly (2) If unit does not work properly, see Trouble Shooting Guide on Page 5.



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INSTALLATION AND SET UP INSTRUCTIONS

FOR RECESS MOUNT HOUSING: CONTROL BOXES #1, 6, 8.

STEP 1. ROUGH IN

HARDWARE Remove suitable knockout(s) in box(es) and insert cable bushing(s). See Fig. 6.

Note: Wires connecting between box(es) and from transformer must be protected from abrasion, and being pulled at connections. They also may have to be fished through at a later stage of construction. Depending on installation, the cable bushings included may be replaced by installer supplied 1/2" conduit. Rough-in box as per Fig. 10.

The transformer is to be installed in an adjacent accessible space. **(Do NOT install the transformer inside the control box.)** Cable from the transformer to the driver board may be roughed in at this time depending on installation. Use cable which complies to local electrical codes for a 1 amp. load. No. 18 is usually sufficient.

HARDWARE OR BATTERY If recessed box is supplied, rough in as per Fig. 10. The most vandal resistant installation is when the control box is as close to the bottom of the sink as feasible. For wall hung sink installation, sensor conduit rough in should be directly under the basin to minimize sensor cord exposure. Rough in drainage. Rough in water supply to 10" control box inlets and to spout connection. Finish walls.

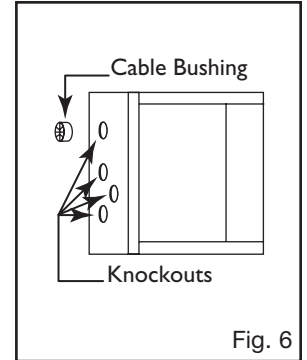
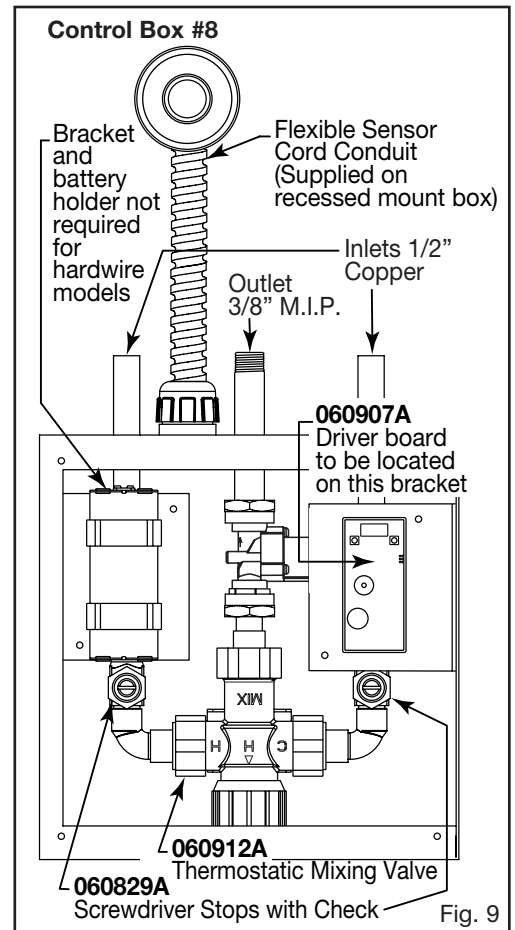
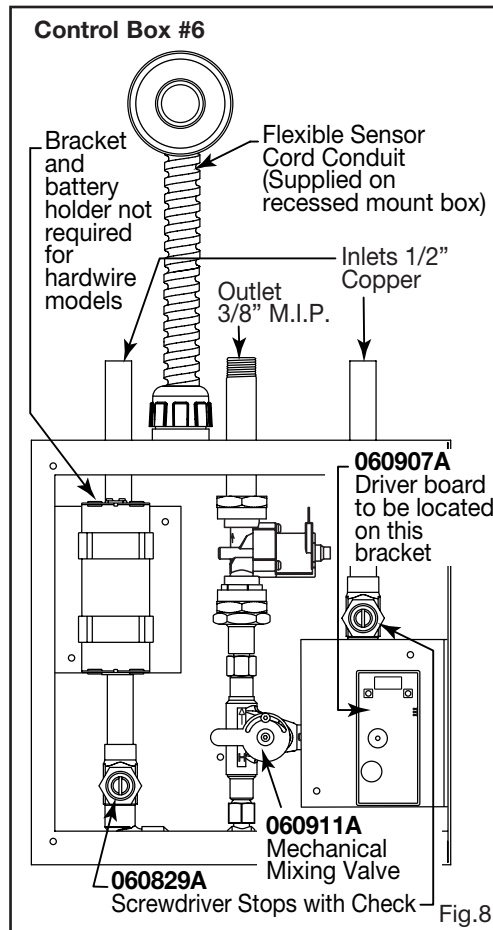
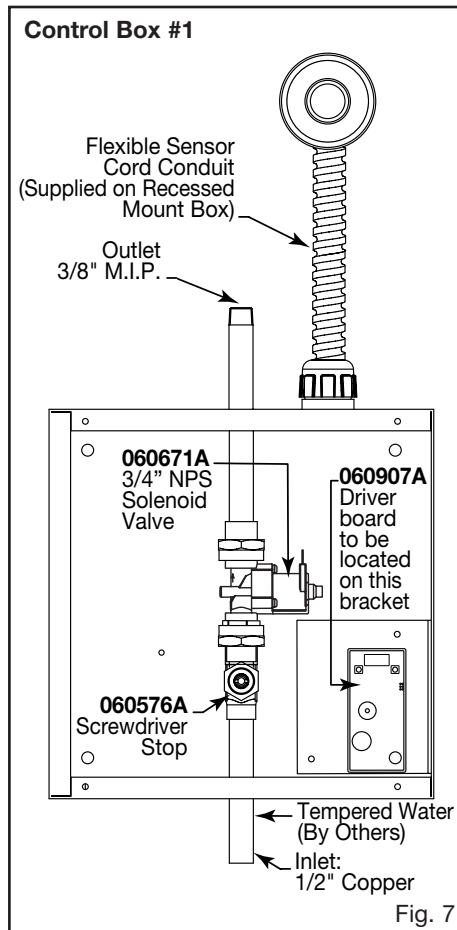


Fig. 6

STEP 2. FAUCET INSTALLATION

Mount faucet to sink using nut(s) and washer(s) provided. (Fig. 1)

NOTE: Use clear silicone sealant between faucet and lavatory to prevent water from leaking beneath lavatory.



COVERS

060577A
12" Stainless Steel Cover

060073A
Screws (4/pkg) and driver bit for covers

INSTALLATION AND SET UP INSTRUCTIONS

FOR RECESS MOUNT HOUSING: CONTROL BOXES #1, 6, 8.

STEP 3. CONNECT WATER SUPPLY

Install sink and connect drainage to rough in. See applicable **Fig. 7**, **Fig. 8** or **Fig. 9**. Please note that the connection tube and fittings are supplied by the **installer** to connect the 3/8" MIP at the box outlet and compression joint for 3/8" O.D. Soft copper tube at the spout. Connect water supply through to spout. Assure supply lines are completely flushed and free of debris.

STEP 4. FLUSH SYSTEM/SET TEMPERATURE

Remove coverplate from control box. Open screwdriver stop(s) to flush installation for **1 minute minimum**.

4A Run water for a sufficient time so the hot and cold water supplies are as hot and cold as they will get.

4B Place a thermometer in a plastic container and hold in the water stream. Record the temperature reading and note position of temperature control, and lock at desired setting.

4C If **Mechanical Mixing Valve (060911A) (Fig. 8)** Adjust setting to the desired temperature and lock in place by tightening the vandal resistant screw.

If **Thermostatic Mixing Valve (Fig. 9)** Adjust setting of the Thermostatic Mixing Valve to obtain the desired temperature (counterclockwise, to increase temperature – clockwise to decrease temperature). (**Fig. 11**)

Periodic Inspection/Maintenance – This valve requires periodic inspection and verification of the outlet temperature by a licensed contractor. Corrosive water conditions, hot feed water temperatures over 200°F (93°C), unauthorized adjustment or repair could render the valve ineffective for its intended service. Regular cleaning and checking of thermostat assembly helps to maximize valve life and mixing function. Frequency of cleaning depends on local water conditions.

4D Close stop(s).

STEP 5. CONNECT ELECTRICAL SUPPLY, SOLENOID VALVE AND SENSOR

Remove plastic threaded spacer nipple and install solenoid valve with body arrow in the direction of water flow. **See Fig. 12**. Feed sensor wire from spout into control box and then into the battery holder. Connect red solenoid cord to "+" marked solenoid terminal on solenoid valve, black solenoid cord to other solenoid terminal.

BATTERY VERSION Remove cover from control box and install four "C" batteries provided into the battery holder. After the batteries are installed, make the sensor connection on the driver board. Connect battery clip to battery pack. One beep should occur to indicate power is applied. Two beeps indicate product is ready to use. Use caution not to damage wires or components on electronic driver board. Secure cover using screws.

HARDWIRE VERSION Install CSA and/or UL approved Class 2 transformer or equivalent in a convenient location or in a pipe chase. (**Do NOT install the transformer inside the control box.**)

With the power off, bring the 24 VAC supply wires into the box. Connect the 24 VAC supply to the 060683A conversion kit. Connect the battery snap of the hardwire converter to the driver board battery clip. Turn on power supply for the transformer and then make the sensor connection on the driver board neatly inside the box. Secure cover using screws.

STEP 6. SERVICES

Open screwdriver stop(s).

Flush line.

Install aerator.

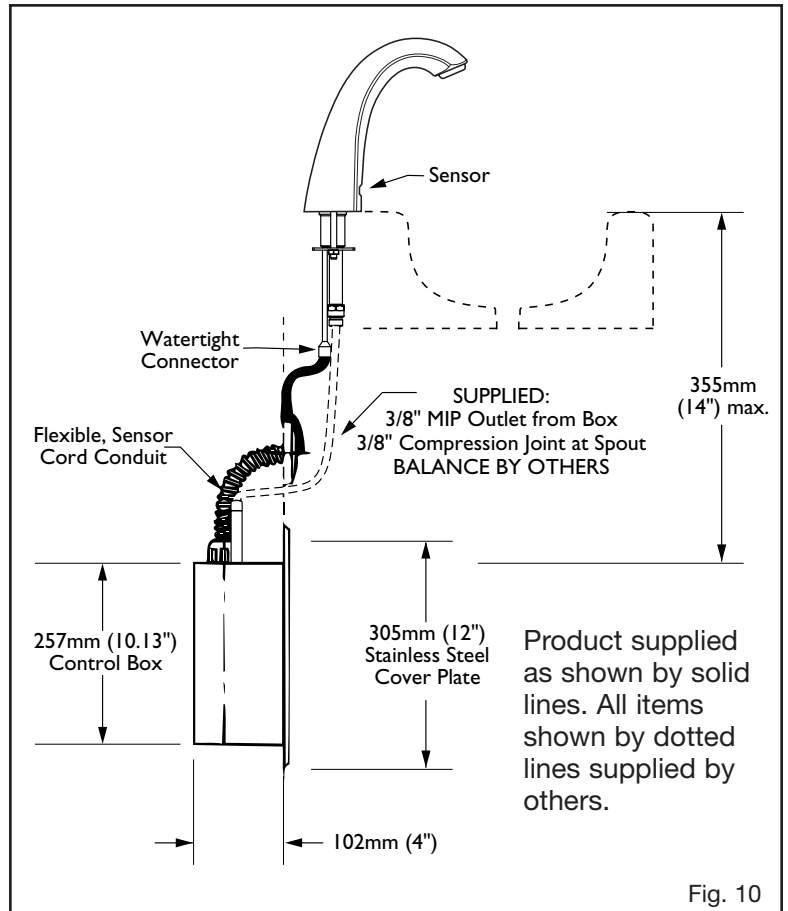


Fig. 10

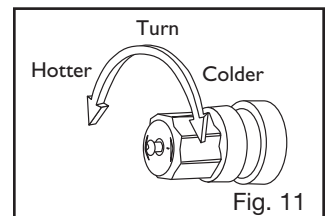


Fig. 11

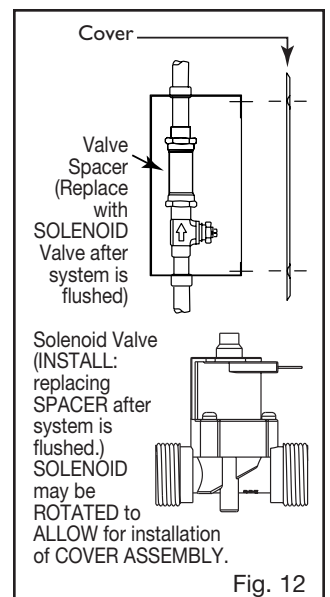


Fig. 12

INSTALLATION AND SET UP INSTRUCTIONS

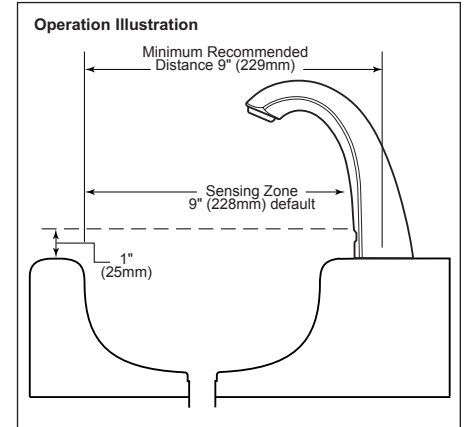
FOR RECESS MOUNT HOUSING: CONTROL BOXES #1, 6, 8.

STEP 7. TEST FOR OPERATION

Test for operation. If unit does not work properly, see Trouble Shooting Guide on page 6.

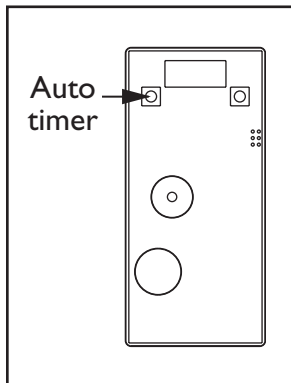
STEP 8. MAKING ADJUSTMENTS

(If adjustments are required. Note factory defaults for program shown in Quick Reference Chart.) Otherwise replace the driver board housing cover as the electronic product is ready for use.



DRIVER BOARD QUICK REFERENCE CHART

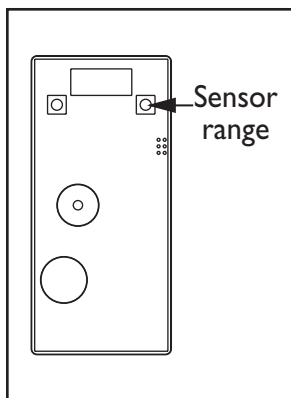
Selection Adjustment	Description	Factory Default Setting	Adjustment Range
Sensor Range	You can set the distance at which the sensor will detect hands in the wash area.	9" from sensor	3" to 15" from sensor
Auto Timer (faucet shut-off)	A safety mode in the event the sensor continually sees a target.	45 seconds	15, 30, 45, 60 and 75 seconds



AUTO TIMER (FAUCET SHUT-OFF)

Auto Timer is a safety mode in the event the sensor continually sees a target (ie. tape on the sensor). In this case the faucet will stop after the pre-determined time period expires. The Auto Timer values are 15, 30, 45, 60 and 75 seconds. The Auto Timer default value is 45 seconds.

To adjust the Auto Timer feature, press and release the yellow pushbutton on the left hand side of the digital light display. The current Auto Timer setting will then appear on the light display. Press and release the same pushbutton continuously to scan through the variable time periods (which are displayed as seconds on the digital light display). To return to operation mode, do nothing for 5 seconds.



SENSOR RANGE (3-15")

The sensor range is the maximum distance at which the user is detected. The sensor range includes 3", 6", 9", 12" and 15". The sensor range default value is 9". Note: Sensor ranges ± 1 " subject to environmental conditions.

To adjust the sensor range value, press and release the yellow pushbutton on the right hand side of the digital light display. The current Sensor Range setting will then appear on the light display. Press and release the same pushbutton continuously to scan through the variable sensor ranges (which are displayed as inches on the digital light display). To return to operation mode, do nothing for 5 seconds.

If you have any questions about the installation of this product or need help trouble shooting this product please call Delta Commercial Technical Services at **1-800-387-8277**.