INSTALLATION INSTRUCTIONS FOR
PCO3S Sensor Assembly Replacement Kit
(16X03)

Shipping and Packing List

Check parts for shipping damage. If damage is found, immediately contact last carrier.

Barb Elbow Connector 5/32” ID (2)
Stud standoffs (4)
Tubing 3/4” length - Black with red stripe (1)
Tubing 3/4” length - Black with blue stripe (1)
Wiring harness

PCO3S main sensor board
PCO3S UVA sensor board

Affected Models

Table 1. Unit Catalog Numbers

<table>
<thead>
<tr>
<th>Model</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>PCO3S-14-16</td>
<td>Y905</td>
</tr>
<tr>
<td>PCO3S-16-16</td>
<td>Y904</td>
</tr>
<tr>
<td>PCO3S-20-16</td>
<td>Y9003</td>
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</tbody>
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Application

This instruction is for the field replacement of both the main sensor and UVA lamp sensor boards along with replacement standoffs, elbow connectors, tubing and wiring harness.

CAUTION
Sharp edges hazard.
Sharp edges can cause injuries.
Use protective gloves when grasping equipment edges.

Figure 1. Parts Identification

Figure 2. Main Sensor Board Connections

Pushing and Holding the Change Filter button or the Change Lamp button for 5 seconds will reset the control.
**WARNING**

Electric shock hazard.
Can cause injury or death.
Disconnect all electrical power supplies before servicing.
Access panels must be in place during appliance operation.

Main Sensor Control Removal and Replacement

**IMPORTANT**

Anytime a PCO3S sensor is replace, the main sensor control MUST be replace as well.

1. Disconnect power to the PCO3S unit.
2. Remove access panel.
3. Locate existing main sensor board.
4. Disconnect wiring harness that goes to the UVA sensor board.
5. Disconnect power and communication wiring.
6. Cut the tubing from the pressure transducer connections near the barb fitting of the elbow as illustrated below.

![Cut Tubing](image)

**NOTE:** Confirm which tubing is connected to which transducer connector. One has a red and the other a blue strip.

8. Remove and replace the control from the unit.

**NOTE:** Take note of the jumper setting for the PCO model. Jumper will need to be set the same on the new main sensor board.

9. Reconnect wiring harness to the UVA sensor board.
10. Reconnect power and communication wiring.
11. Set PCO filter size jumper. Use same jumper position that was used on the control removed.

12. Use the kit provided tubing between the pressure transducer connections and the provided elbow. Then connect existing tubing to the elbow connectors.

![Pressure Transducer Connections](image)

**UVA Sensor Control Removal and Replacement (If Required)**

This procedure is provided only if it has been determined that the UVA sensor control requires replacement.

1. Turn 24VAC power off to main sensor board. (NOTE: Disconnecting 115VAC plug does not remove power to control.
2. Disconnect wiring harness from existing UVA sensor control board.
3. Remove nuts and spacers from mounting studs.
4. Using a small screw driver gently insert screw driver between control board and cabinet and gently pry control board loose from studs being careful not to loose spacer between UVA sensor control board and cabinet.
5. Replace UVA sensor control board and reinstall spaces, nuts and harness.
6. Turn back on 24VAC power to main sensor board.
7. Reset purifier button on control by holding button on control board for five seconds or in S30 thermostat.