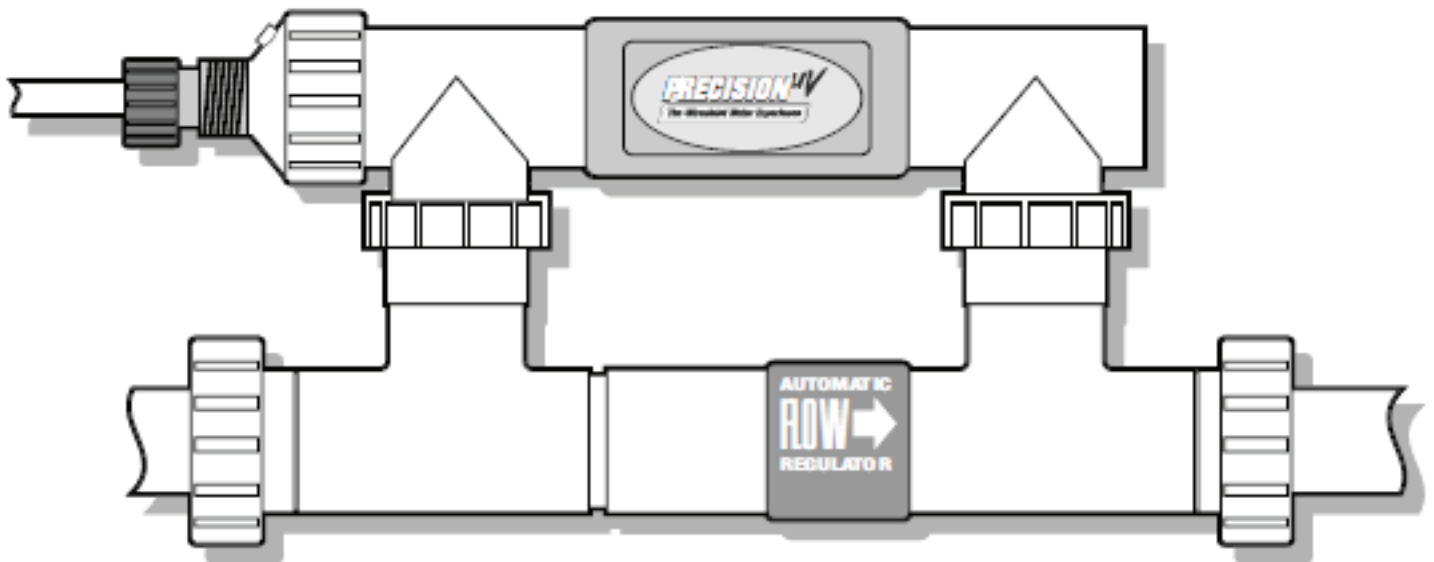


# PRECISION<sup>UV</sup>

**The Ultraviolet Water Experience**

## *Troubleshooting Guide*



## TROUBLESHOOTING QUICK GUIDE

PROBLEM	CAUSES	SOLUTION
<b>BLUE FLASHING RIM:</b> High (>113F) or Low (<50F) temperature in the Chamber	<ol style="list-style-type: none"> <li>1. No Flow</li> <li>2. Installed Too Close to Heater</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn on pump</li> <li>2. Move installation further down stream from heater</li> </ol>
<b>NOTE:</b> After correcting the problem it can take a few minutes for the blue rim to stop flashing as the chamber temperatures change.		
<b>RED SOLID RIM:</b> Bulb or Power Supply Problem	<ol style="list-style-type: none"> <li>1. Lamp cable disconnected</li> <li>2. Lamp Failure/End of Life</li> <li>3. Power Supply Failure</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect lamp cable</li> <li>2. Replace lamp</li> <li>3. Replace power supply</li> </ol>
<b>NOTE:</b> Check the bulb and connections first. Inspect bulb for dark spots or burnt filament, if so replace bulb and re-check error status. If the bulb and connections are okay, replace the power supply.		
<b>RED FLASHING RIM:</b> Temperature sensor problem	<ol style="list-style-type: none"> <li>1. Disconnect temp sensor</li> <li>2. Temp sensor failure</li> <li>3. Temp cable damage</li> </ol>	<ol style="list-style-type: none"> <li>1. Reconnect temp sensor</li> <li>2. Replace temp sensor</li> <li>3. Replace power supply</li> </ol>
<b>NOTE:</b> Before installing the new temp sensor ensure teflon tape is applied to the threads of the sensor.		

### If leaks occur it's a quick and easy fix

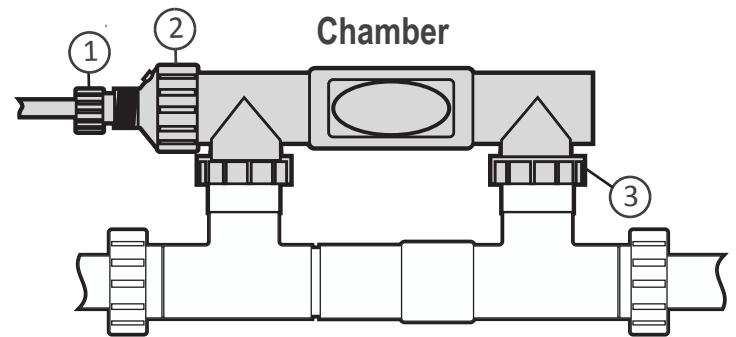
#### Leaking From The Chamber:

Leaks from the chamber are normally the result of a loose fitting and can be fixed on the spot.

Step 1: Tighten blue quartz viewing caps.

Step 2: Tighten chamber end cap.

Step 3: Tighten chamber union nuts.



#### Leaking From The Chamber:

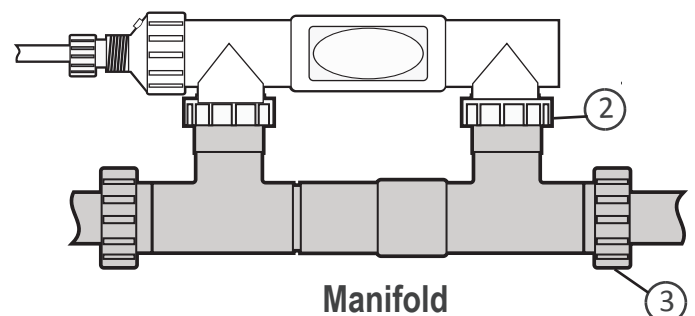
Leaks coming from the manifold glue joints cannot be repaired onsite, replacing the manifold is the best option.

Step 1: Turn power and pump off.

Step 2: Remove chamber side union nuts.

Step 3: Remove bottom union nuts.

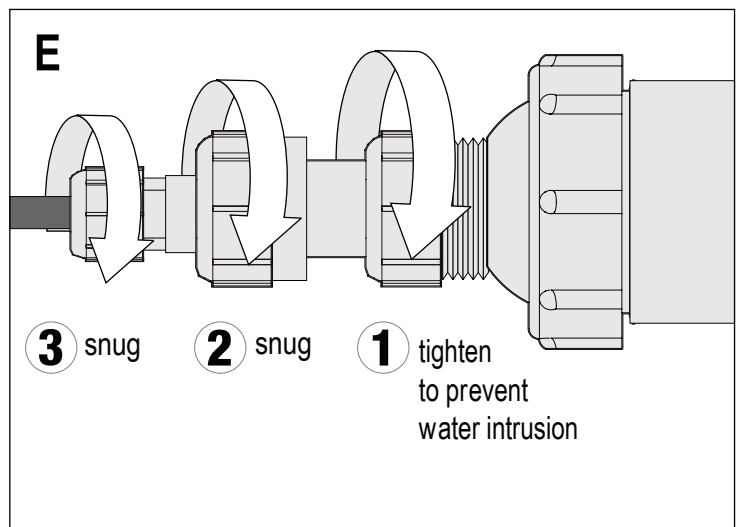
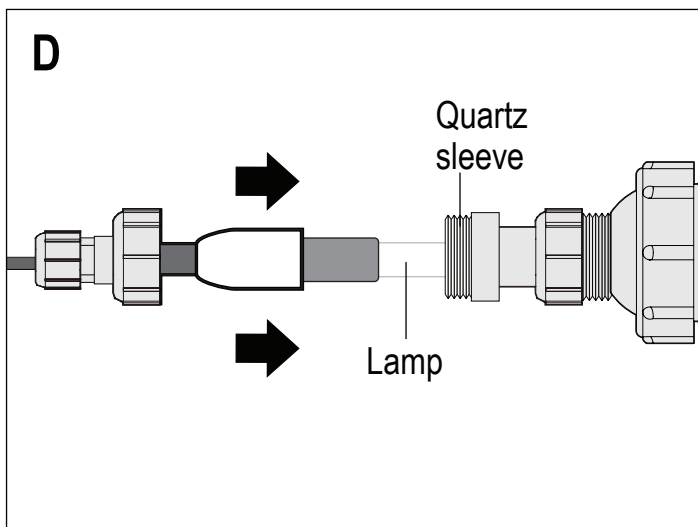
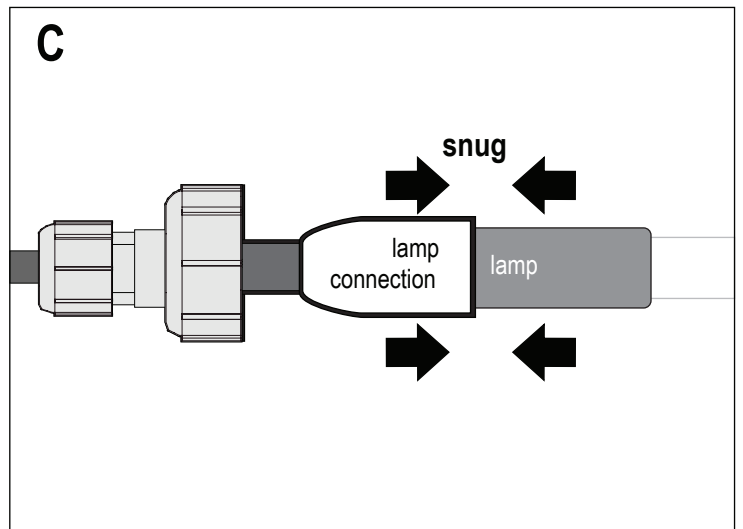
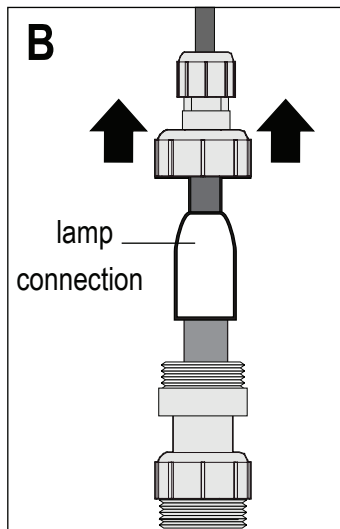
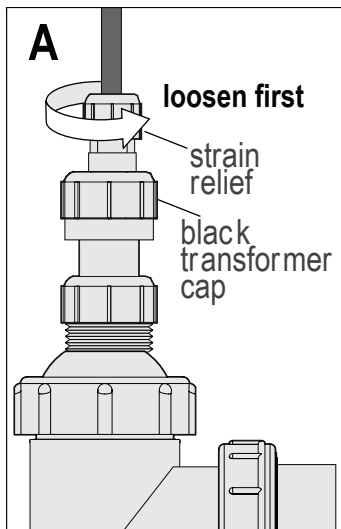
Step 4: Install new manifold and replace connections.



## LAMP REPLACEMENT

Lamps have a life of around 13,000 hours and will eventually need to be replaced. Replacing the lamp is simple and quick.

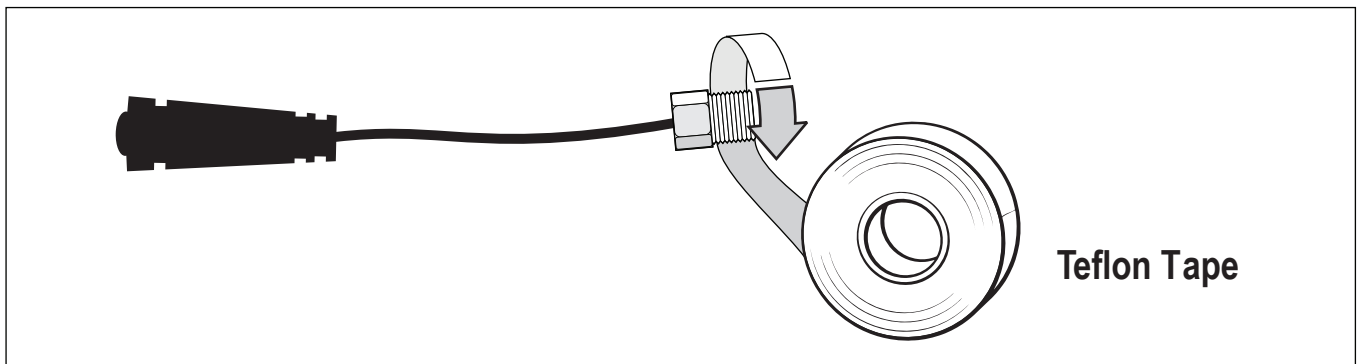
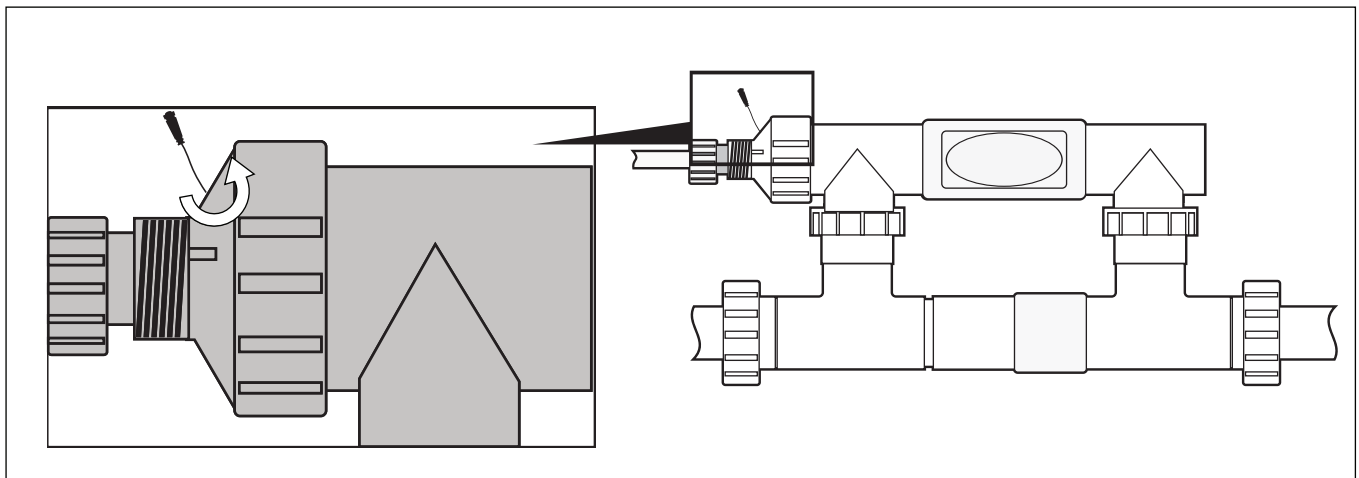
1. Turn off power to the system and pump.
2. Loosen strain relief connector first.
3. Unscrew the black transformer cap first, careful not to twist the cable.
4. Gently slide the lamp out and disconnect the power cable.
5. Do not touch the glass on the lamp.
6. Insert the new lamp in to the Quartz Sleeve w/out touching glass and reconnect the lamp power cable.
7. Restore power to the system and pump.



## TEMPERATURE SENSOR REPLACEMENT

The temperature sensor is used for detecting flow in the Precision. If the temperature sensor is damaged, disconnected or malfunctioning the power supply rim will flash red. Replacing the temperature sensor is quick and easy.

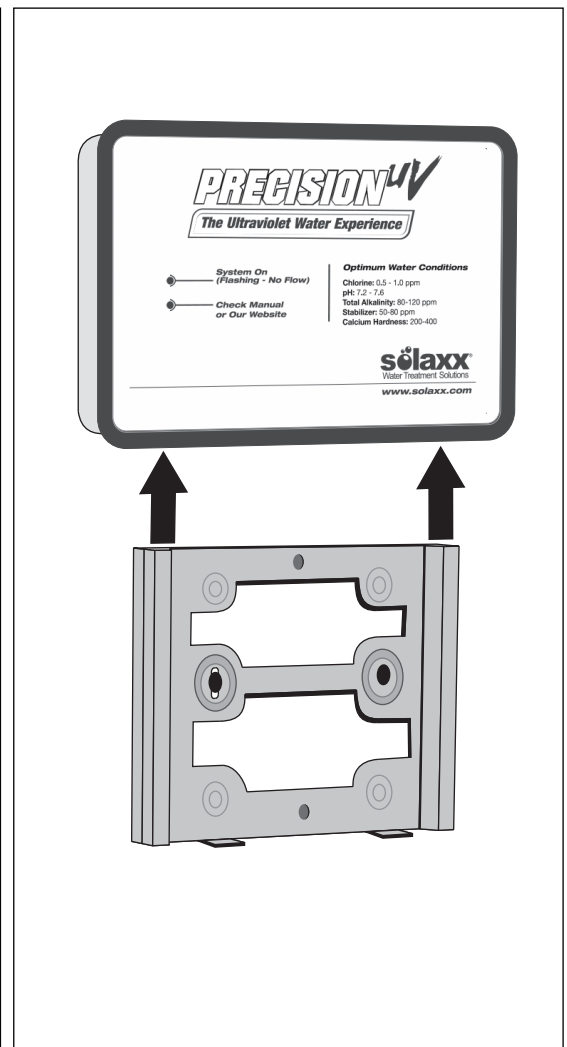
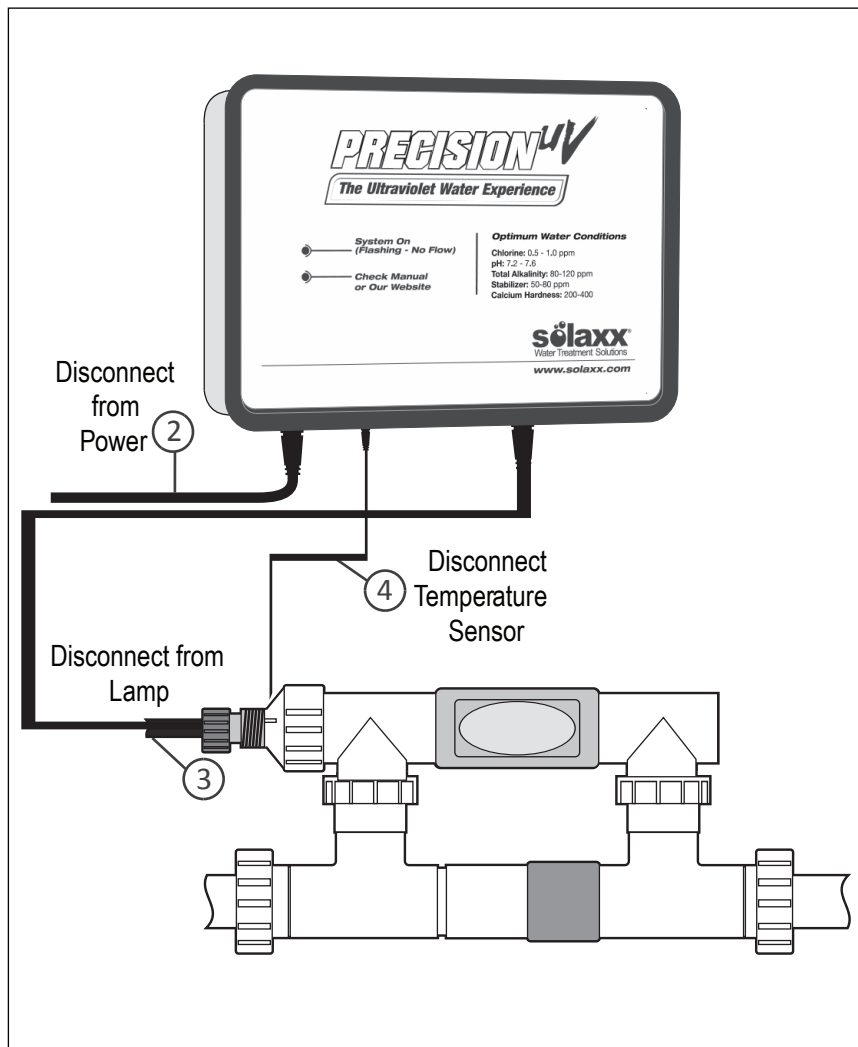
1. Turn off power to the system and pump.
2. Disconnect temp sensor from the power supply.
3. Disconnect and gently unscrew the temperature sensor from the chamber.
4. Ensure the new temperature sensor has ample teflon tape for a snug fit.
5. Gently screw the new temperature sensor into the chamber, be careful not to over tighten and strip the chamber threading.
6. Reconnect the temperature sensor and restore power to the system and pump.



## POWER SUPPLY REPLACEMENT

The power supply unit controls the operation of the Precision. If the power supply has lost connection to the lamp, the rim will glow solid red. Always start by checking the lamp and connections first. If the lamp and connections are all okay, replace the power supply.

1. Turn off power to the system and pump
2. Disconnect all the power supply connections
3. Slide the power supply up off the wall mount
4. Slide the new power supply on the wall mount
5. Replace all connections and restore power to the system and pump



## MANIFOLD REPLACEMENT

The manifold is responsible for controlling the water flow through the system. If there is a leak or there is a problem with the venturi or check valve the manifold may need to be replaced. Replacing the manifold is quick and easy.

1. Turn off power to the system and pump.
2. Disconnect the union nuts from the chamber and remove the chamber.
3. You can leave the lamp in the chamber to avoid handling the light and touching the glass
4. Remove the chamber and set to the side
5. Disconnect the bottom union nuts and remove the manifold
6. Install the new manifold.
7. Replace all connections and restore power to the system and pump

