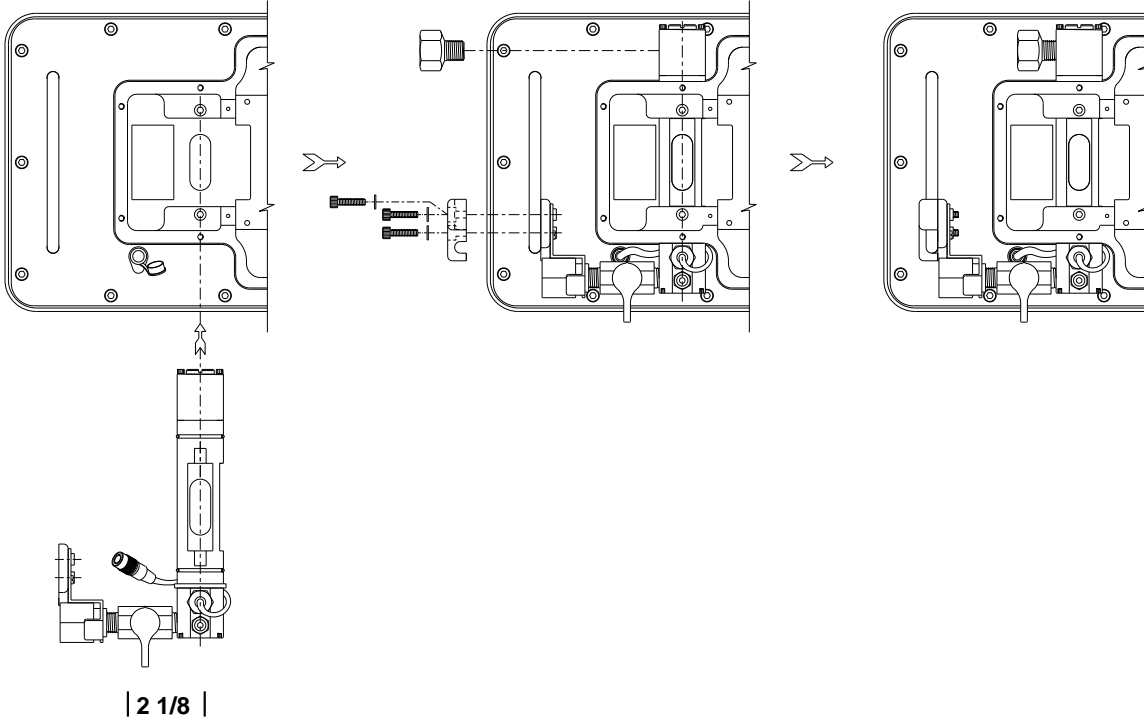


1. Remove the discrete sample adapter or three piece 25mm flow cell as specified in Section E of Appendix A-7 of the 10-AU User's Manual.
2. At this point, the cover should be off the lamp housing, and the excitation filter should be removed.
3. Screw in the pipe adapter with the silver handle into the bottom of the flow cell so that it is hand tight. The assembly should look like the flow cell depicted in Figure 1. The distance between the flow cell body and the mounting plate should be about 2 1/8 inches.
4. Remove the two hex head screws from the handle mount on the flow assembly with the hex wrenches that are provided with your 10-AU fluorometer. Remove the left half of the mounting plate.
5. Lube the two o-rings on the flow assembly with the o-ring grease provided. Insert the one-piece assembly through the hole at the bottom of the sample compartment, and slide it in half way. (See Figure 1)
6. If you have temperature compensation, attach the gray temperature compensation connector wire to the connector located underneath the sample compartment.
7. Insert the one-piece assembly the rest of the way in until it can go no further.
8. Attach the handle mount you removed in step 3 to the left handle of the 10-AU by installing the two hex head screws with the hex wrench. (See Figure 2)
9. Tighten the set screws in the sample compartment that will secure the one-piece flow cell in place.
10. Install the cover plate on the lamp housing.
11. Install the excitation and emission filter paddles.
12. Install the silver colored pipe adapter to the top of the flow cell assembly. (See Figure 2)
13. Attach your pipe or garden hose attachments to the fluorometer. Remember: the water should flow from bottom to top on the fluorometer (i.e., the water inflow should attach to the bottom).
14. Make sure that once you are ready to flow water through the fluorometer that the red handle on the valve is parallel to the flow path (horizontal). If it is vertical, the flow is stopped by the valve.
15. When calibrating, turn the red handle on the valve to the vertical position and inject a standard with the syringe. You will probably have to inject two or three times to clear the previous sample entirely out of the cell. When you are done calibrating, turn the red handle to the horizontal position to resume the flow.
16. To clean the flow cell, first stop the flow of water by turning the red handle on the valve to the vertical position. Unscrew the large silver colored plug on the top of the flow assembly with a flat head screwdriver. Use a test tube brush to clear any algae or other material that may be "fouling" the cell. When you are done scrubbing the inside of the flow cell, reinstall the plug, and turn the red handle to the horizontal position.

**Note of Caution:**

**Components of the flow cell (Continuous-Flow Cuvette System) are made of PVC, Delrin, and/or nickel-plated brass; and the seals are made of elastomers suitable for use with marine and fresh water. When using the Continuous-Flow Cuvette System, DO NOT use organic solvents such as acetone, methanol, or pyridine, or corrosive materials such as strong acids and bases.**

**One-Piece Flow Cell Drawings**



**Figure 1**

**Figure 2**