

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 and lamp should be removed. In the 10-AU-005-CE instrument, there is no need to remove the lamp.
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 three hex head screws from the handle mount on the flow assembly with the tool that is provided with your 10-AU fluorometer. It is kept on the 10-AU to the left of the power and signal cable connection. 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 three hex head screws with the hex head tool. (See Figure 2)
9. Tighten the set screws in the sample compartment that will secure the one-piece flow cell in place.
10. For the 10-AU-005 instrument, reinstall the lamp and the excitation filter that you removed in step 1 according to the instructions in Appendix A-7.
11. Install the cover plate on the lamp housing.
12. For 10-AU-005-CE units, install the excitation and emission filter paddles.
13. Install the silver colored pipe adapter to the top of the flow cell assembly. (See Figure 2)
14. 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).
15. Make sure that once you are ready to flow water through the fluorometer that the silver handle on the valve is parallel to the flow path (horizontal). If it is vertical, the flow is stopped by the valve.
16. When calibrating, turn the silver 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 silver handle to the horizontal position to resume the flow.

17. To clean the flow cell, first stop the flow of water by turning the silver 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 silver handle to the horizontal position.

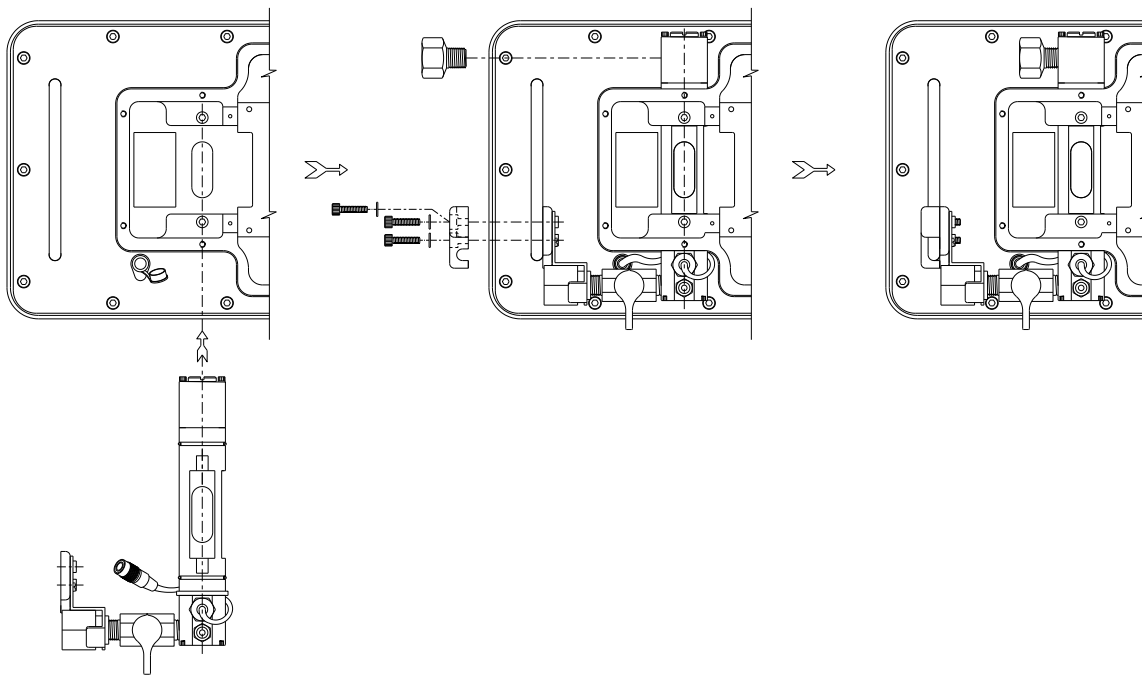
Note to the users:

If you do not know whether you have a 10-AU-005-CE or a 10-AU-005 instrument, look at the serial number on the bottom of the instrument. 10-AU-005 instruments have serial numbers from 5000-5999. 10-AU-005-CE instruments have serial numbers from 6000-6999.

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 in fresh water and marine environments. 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



| 2 1/8 |
Figure 1

Figure 2