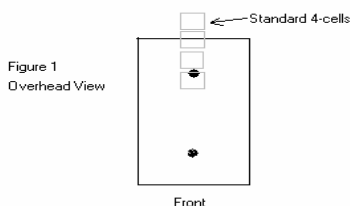


## Accessory Installation Guide Micro-cell Package

(S2100-106P)

- Step 1: Remove all items from the accessory package made sure that they are complete:
- *A cell holder with X-Y adjustable bas* 1 pc.
  - *Installation Guide* 1 pc.
- Step 2: The only tool needed is a standard “Philips” head screwdriver.
- Step 3: Remove the 4-cell sample holder: Open the sample compartment cover and remove any cuvettes or any breakable items. Push-in the cell holder rod (black knob) all the way back (First position cell holder is into the light path).
- Step 4: Unscrew the cell holder rod by turning the knob counterclockwise until removed from holder. Gently slide the guide rod out of the sample compartment.
- Step 5: Looking over the sample compartment, remove the front screw (Figure 1).

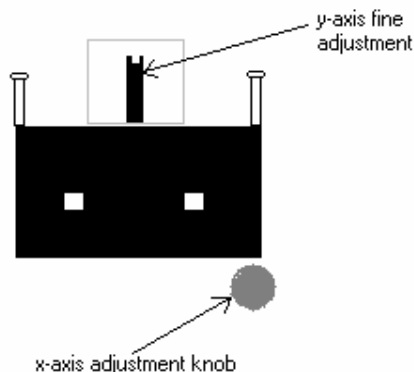


- Step 6: To remove the back screw, place your hand ON TOP of the 4-cells and gently slide towards the front. The back screw is then exposed and can be removed.
- Step 7: Place the x-y adjustable base into the sample compartment by aligning the two alignment pins (parallel with the light beam) with the two holes on the bottom of the x-y base. Tighten the rear screw. It may not be necessary to replace the front screw since the alignment pins will properly place the base.
- Step 8: Please turn on the power to the instrument if the unit is off. After self-calibration, the spectrophotometer will stop at 546nm (green light)
- Step 9: Place your micro-cell cuvette into the cuvette holder. The light beam should be in the center of the cuvette. If the green light is centered, you are ready to make your measurements. If the green light is not centered on the cuvette, please proceed to Step 10.

## Adjusting the Micro-Cell Holder

Step 10: You will need a basic screwdriver for the y-axis adjustment. The adjustment screw is located in the front-center of the holder (Figure 2).

Figure 2: Micro-cell Holder, Front View



- If the light is too high (centered on cuvette, but not optimizing minimum volume), turn the adjustment screw counterclockwise until centered.
- If the light is too low (centered on cuvette, but light beam is focused below window), turn the adjustment screw clockwise until centered.

*A simple way of doing this is to monitor the transmittance reading on the display while adjusting the screw. The best position is that you get maximum transmittance reading on the display. This means that maximum light beam (energy) passes through the cuvette.*

Step 11: If the light is left or right of the center of the cuvette, then the x-axis will need adjustment.

For the x-axis adjustment, turn the white adjustment knob. The white adjustment knob is located at the front-right of the holder (Figure 3).

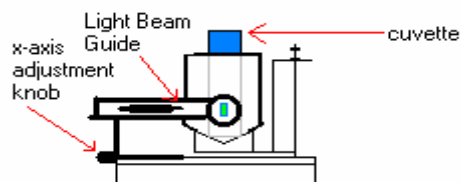


Figure 3: Micro-cell holder, right-side view.

- If the light is to the back of the instrument, turn the knob clockwise until centered.
- If the light is towards the front of the instrument, turn the knob counterclockwise until centered.

*Once again the best way is to monitor the transmittance reading on the display while adjusting the knob. Turn the knob clockwise or counterclockwise until you get the maximum transmittance reading on the display. This indicates that light beam is centered to the cuvette window to the maximum (energy)*

**Note: Light beam guide is eliminated from latest design change**