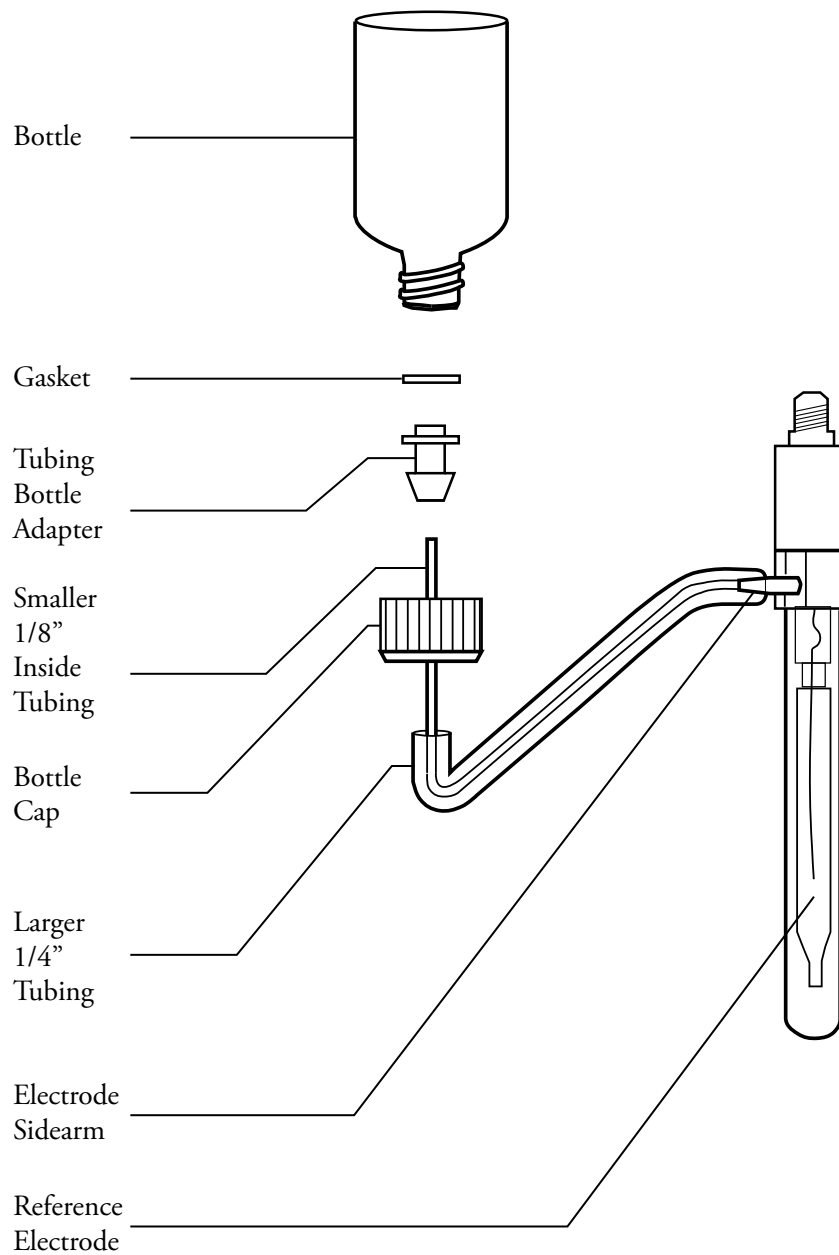


Double Junction Frit Reference Electrode Installation

The double junction frit reference electrode, Cat. No. 210056, is used on the 2111XP online sodium monitor. It requires the use of the filling solution, Cat. No. 181073, which is orange in color. Do not use any other filling solution than Cat. No. 181073, as other filling solutions may contain AgCl, which will clog the ceramic frit of the electrode.

Procedure

1. Unpack the reference electrode and tubing assembly from the shipping box. Carefully remove the protective caps from the bottom and sidearm of electrode. Save the caps for future storage of the electrode. Inspect the internal chamber of the electrode. Verify that the internal chamber is at least half filled with the internal filling solution. If not, replace the electrode.
2. Shake out as much of the filling solution as possible through the sidearm into a sink or other drain.
3. Pass the 1/8 inch tubing into the electrode sidearm and slide the 1/4 inch tubing over the sidearm. The outside tubing should extend 3/8 - 1/2 inch over the sidearm.
4. Remove the cap and seal from the electrolyte filling solution bottle. Hold the bottle in an upright position. Check that the rubber gasket is properly aligned and then connect the cap end of the tubing assembly to the bottle. The 1/8 inch tubing should extend into the bottle.
5. Hold the reservoir bottle above the electrode with the bottle cap end down. The electrode should be horizontal with the sidearm pointing up. Gently shake the electrode to allow any trapped air bubbles to rise into the bottle as the electrode fills with solution.
6. Dry off the ceramic frit on base of the electrode with tissue paper. Squeeze the filling solution bottle for a few seconds. A small amount of filling solution should bead up on frit surface, which indicates good electrolyte flow. If no moisture is visible, the electrode is clogged and should be cleaned or replaced.
7. Invert the electrolyte bottle and snap it into the clip. Use the supplied push pin to puncture three air vents on bottom of bottle. **Caution:** Failure to vent the electrolyte bottle will lead to noisy and drifty output signals.
8. Connect the electrode to the electronic chassis via the “keeper cable” that is labeled Ref. Elect. Insert the electrode into the reference hole in the flow cell cap.
9. Mark the level of solution in the reservoir bottle and note the date. The solution level should be checked monthly and refilled as required. The solution level should drop at least 1/8 inch per month or erratic monitor readings may result. Replace the reference electrode fill solution bottle as necessary.



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