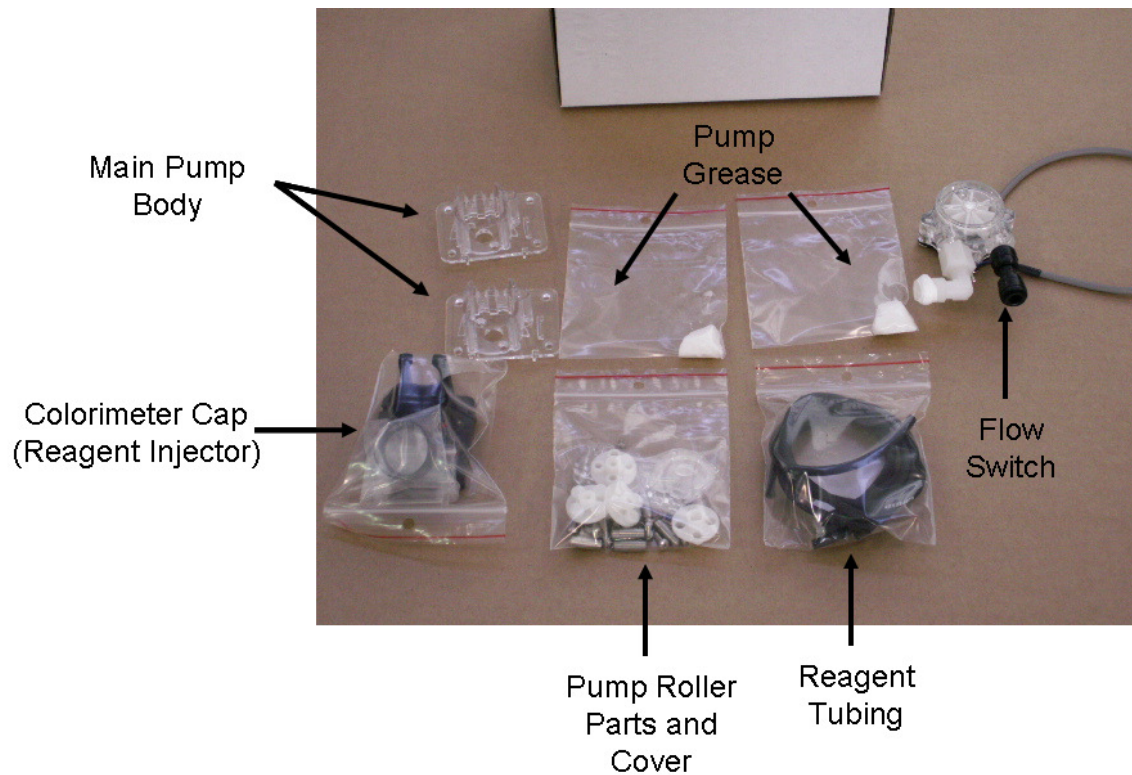


Annual Replacement Kit Installation

Kit Includes:

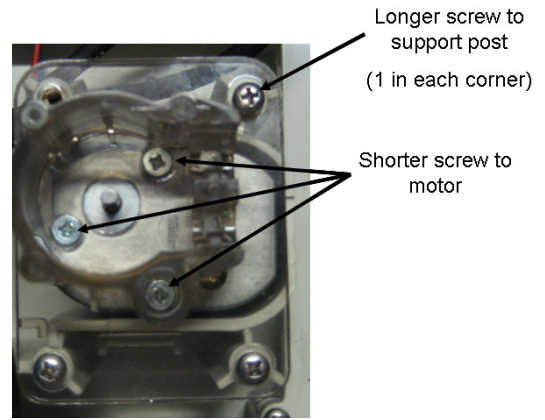


WARNING: Turn Water and Power OFF before starting the replacement of any analyzer component.

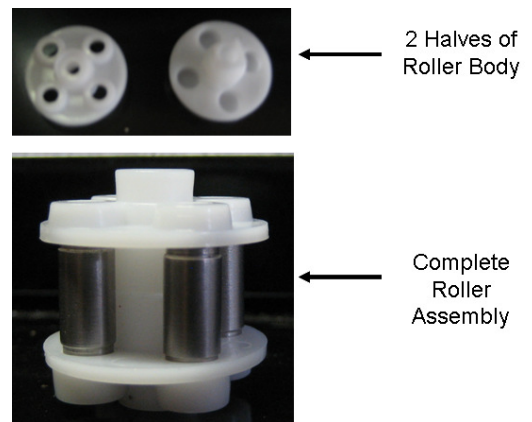
Replacing Pump Head:

1. Remove the Reagent Bottles
2. Remove existing black, noprrene tubing to and from reagent pumps (use gloves as the reagents will stain)
3. Remove the plastic cover from the existing reagent pump
4. Remove the roller and tubing from inside the pump head
5. Remove the center screws holding the main pump body to the motor and the screws in each corner attached to the support posts (save all hardware until after installation is complete).

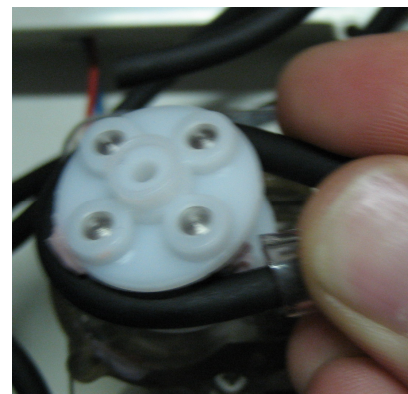
1. Attach the new Main Pump body to the motor and 4 support posts
2. Apply approximately half of the grease around the Main Pump Body where the Pump Tube will be located.



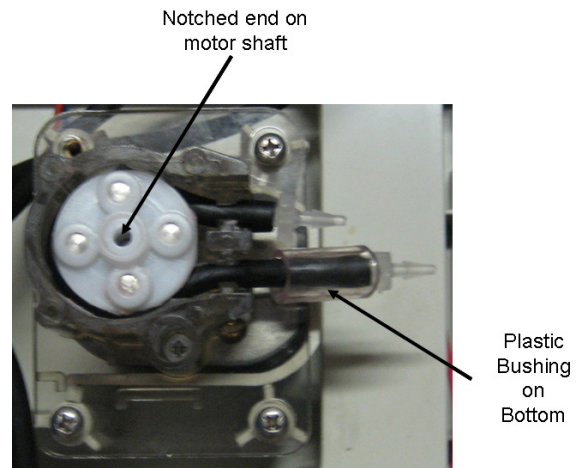
3. Assemble the Pump Roller Assembly
 - a. Place the 4 metal rollers in either half of roller body
 - b. Press the other half of roller body into place making sure to line up the notch on the roller body and the metal rollers



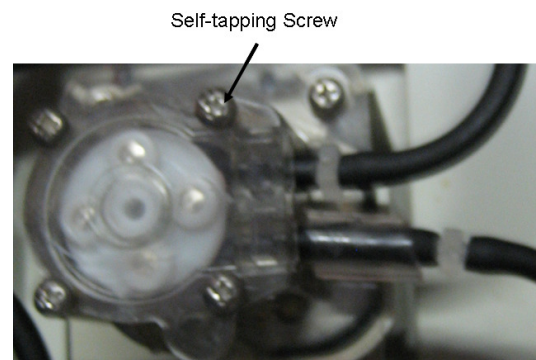
4. Wrap the Pump Tube around the Roller Assembly
 - c. make sure that the plastic bushing is on the bottom (suction side) of the pump. (This ensures the pump tubing remains in place during pumping).



5. Slide the Roller Assembly into the Main Pump Body
 - d. make sure that the notched opening on the Assembly is being installed onto the motor shaft and that the notch on the motor shaft and Assembly line up. You may need to rotate the assembly to line up the notch.
 - e. Make sure that plastic bushing is on bottom.

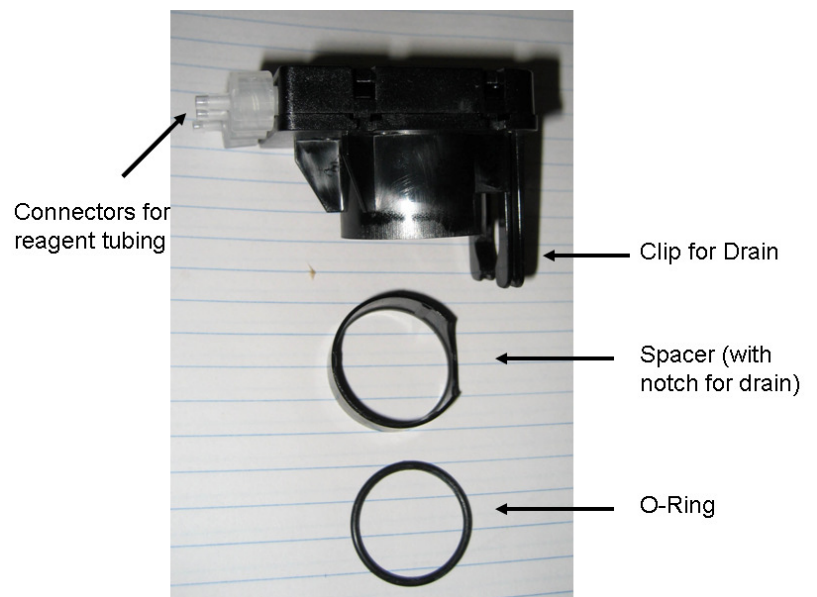


6. Attach the Pump Cover using the self-tapping screws
7. Repeat for each pump



Replacing Colorimeter Cap (Reagent Injector):

1. Remove the existing Colorimeter Cap by pulling up gently on the existing cap until it releases from the Colorimeter.
2. Place the spacer over the Colorimeter lining up the notch with the drain line
3. Place the O-ring on top of the colorimeter
4. Press the new Colorimeter Cap in place making sure to line up the clips with the colorimeter drain



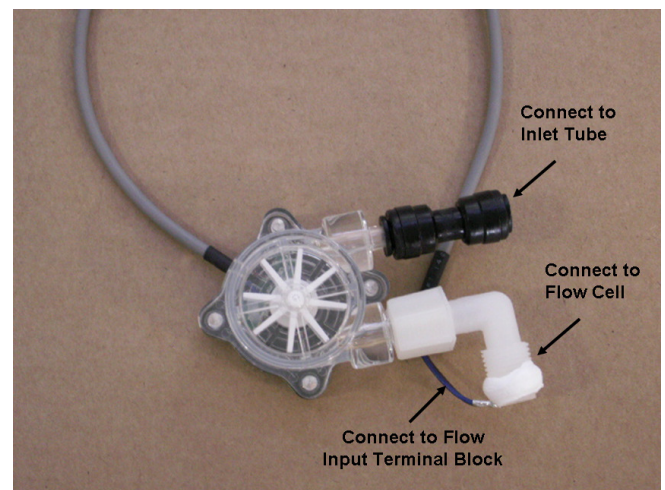
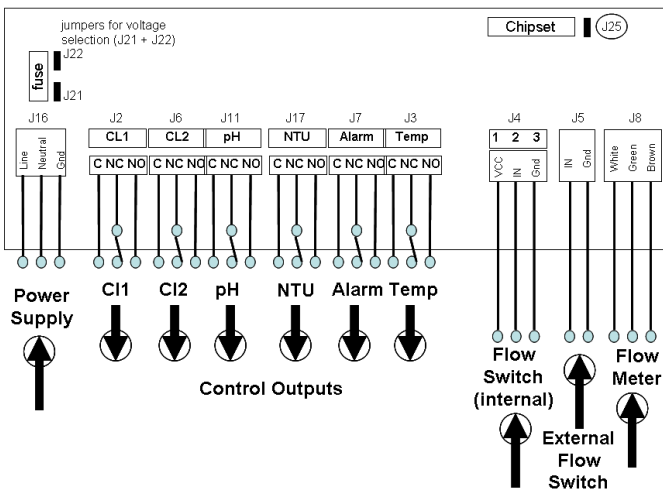
Replacing Tubing:

Tubing may be cut to length as needed.

1. Route a section of tubing from the bottom of the reagent holder to bottom fitting of the corresponding Reagent Pump.
 - a. Install a hard plastic fitting on the end inside the reagent bottle to prevent suction of the tube to the reagent bottle
2. Connect a section of tubing from the top (outlet) Fitting of the Reagent Pump to any open fitting on the Colorimeter Cap
3. Repeat for each pump

Flow Switch:

1. Open the Electronics Box of the Analyzer and remove the wires from the flow switch terminal block
2. Remove the existing flow switch from the tubing and flow cell fitting
3. Install the new Flow Switch onto flow cell fitting and inlet tubing
4. Route the wire through an open gland on the bottom of the electronics box and connect to the flow switch (Internal) terminal block.
5. Close the Electronics Box



Once installation is complete:

1. Turn water and power ON
2. Check for leaks
3. Check for proper flow switch operation (i.e. no flow alarm)
4. Replace Reagents
5. Re-prime the reagent pumps for 90 seconds to ensure all pump tubing is full of reagent