



Pipet-Aid XP

Pump and wire harness replacement Instructions:

4-000-101/102/201/202

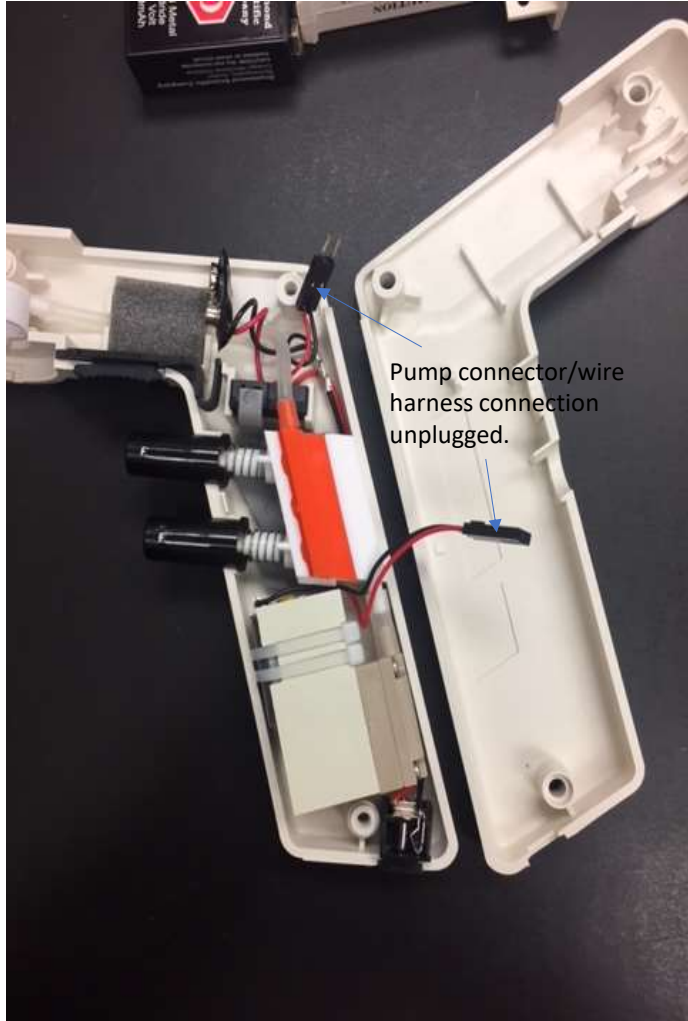
View showing unit with nosepiece removed and the three screws holding the handle halves removed.



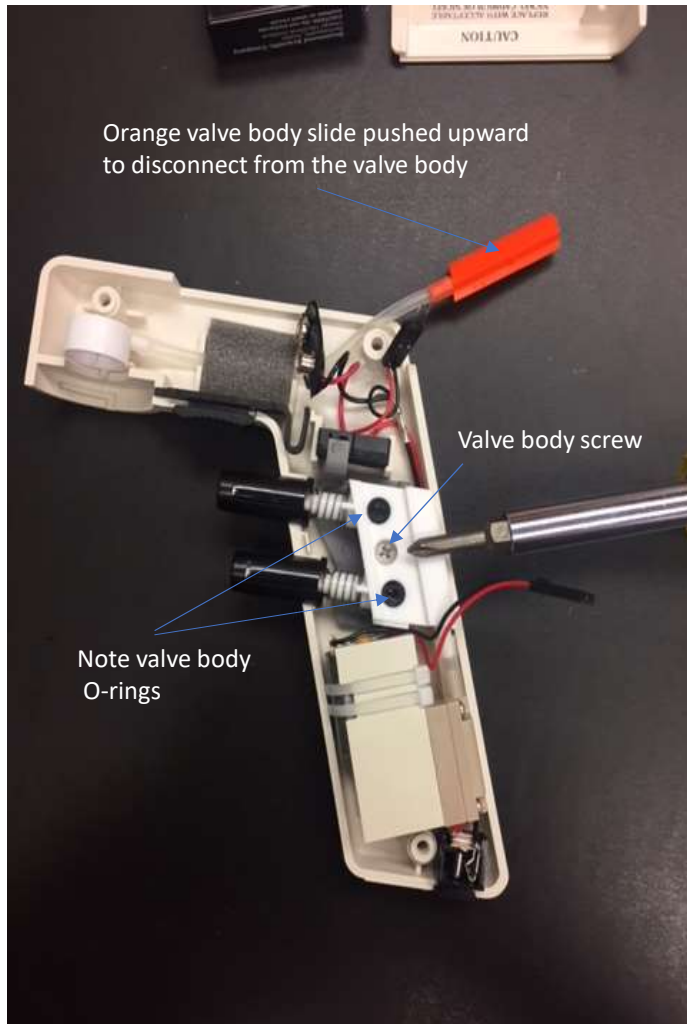
Unit shown with handle opened up.



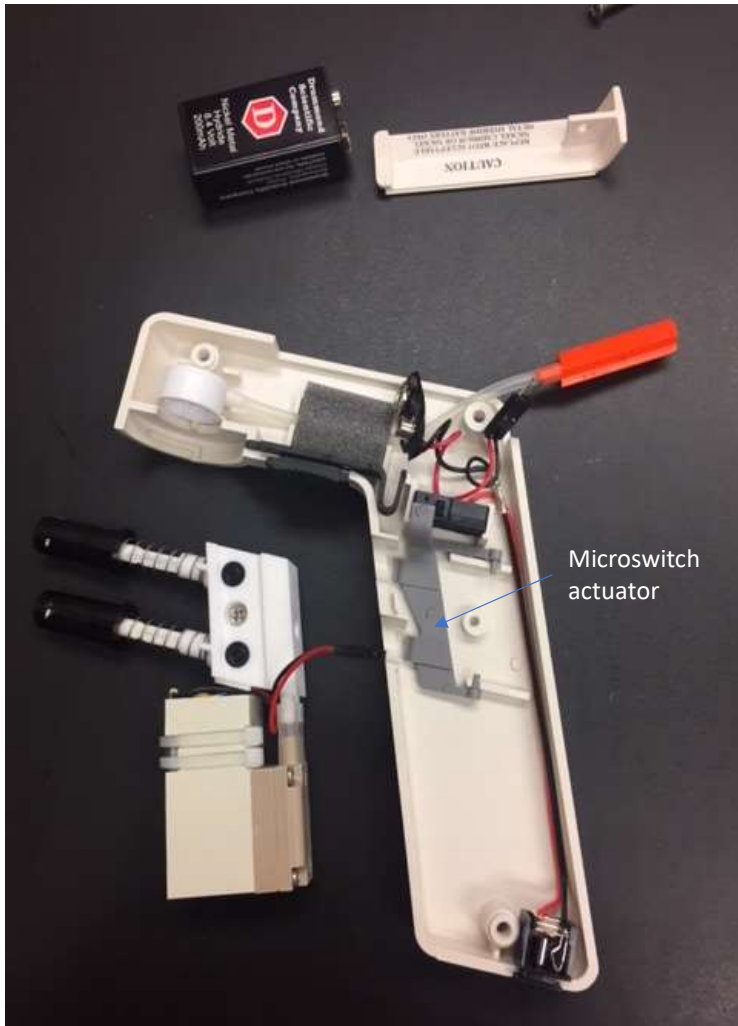
Once the handle has been opened, disconnect the battery.



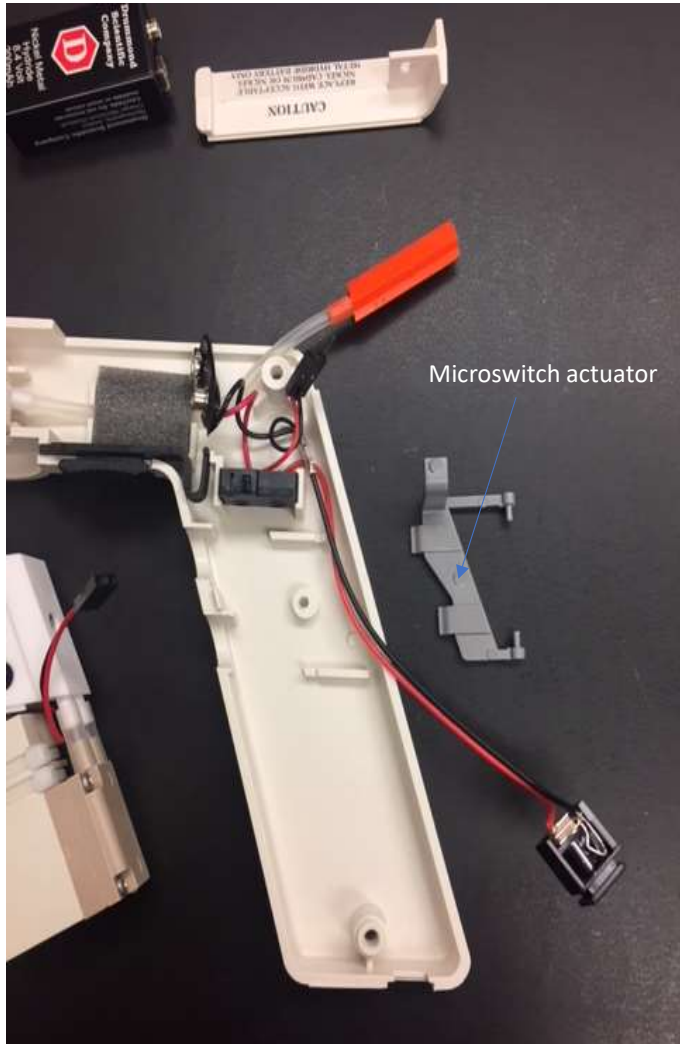
Unplug the pump connector from the old wire harness.



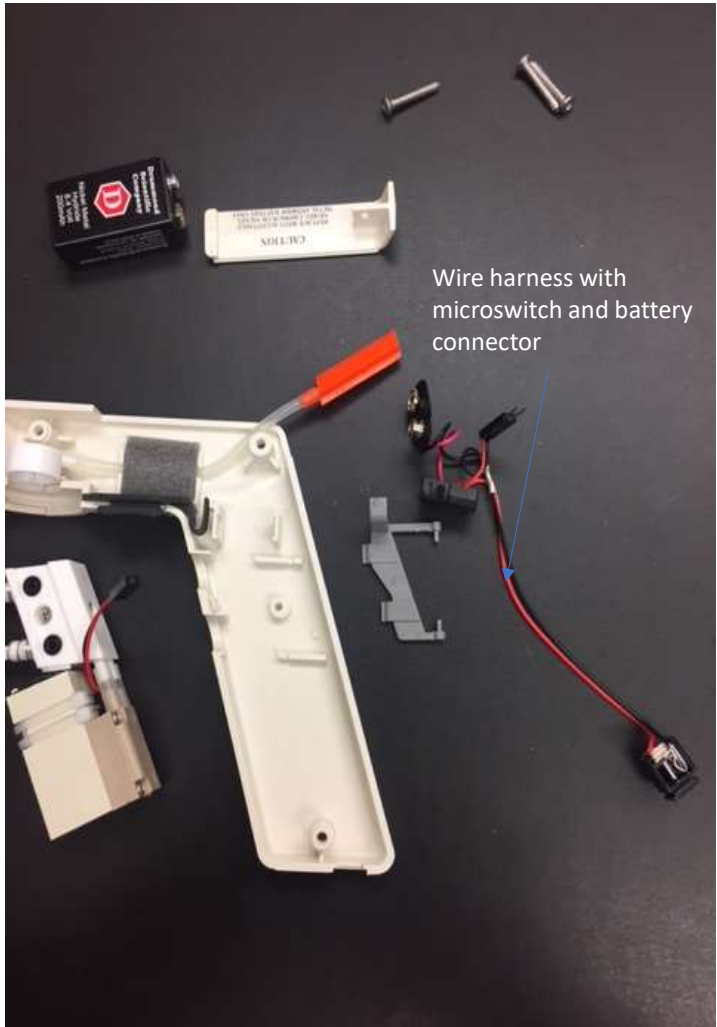
Once the valve body slide is removed by sliding it towards the top of the handle, unscrew the valve body screw. Make sure the buttons do not fly off since they are spring loaded.



Once the valve body screw is removed, with one hand hold in both the fill and empty buttons. With the other hand lift both the valve body and pump from the unit.

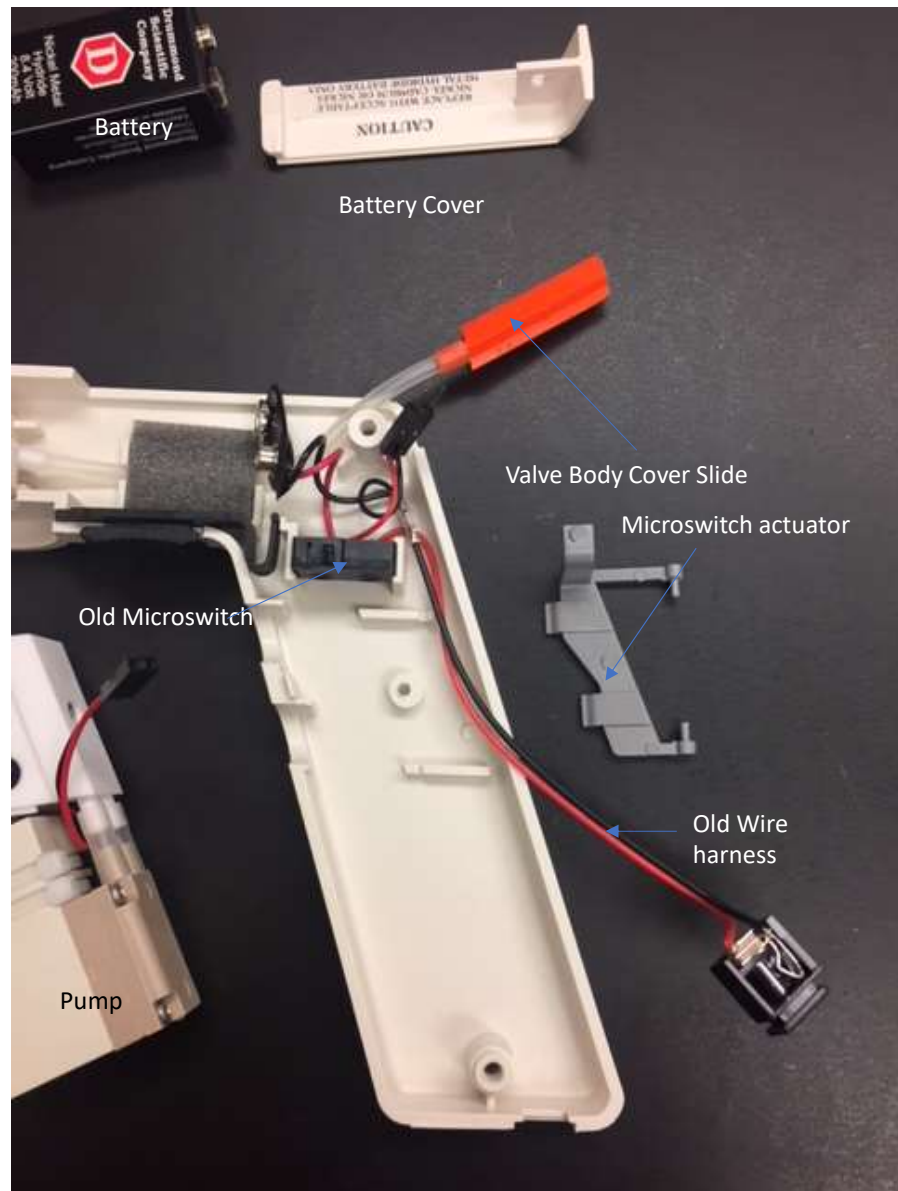


After removing the pump/valve body, remove the microswitch actuator.



Wire harness with
microswitch and battery
connector

Remove wire harness and
microswitch.



Pipet-Aid XP

4-000-101, 102, 201, 202

Labeled internal components of the Pipet-Aid XP.

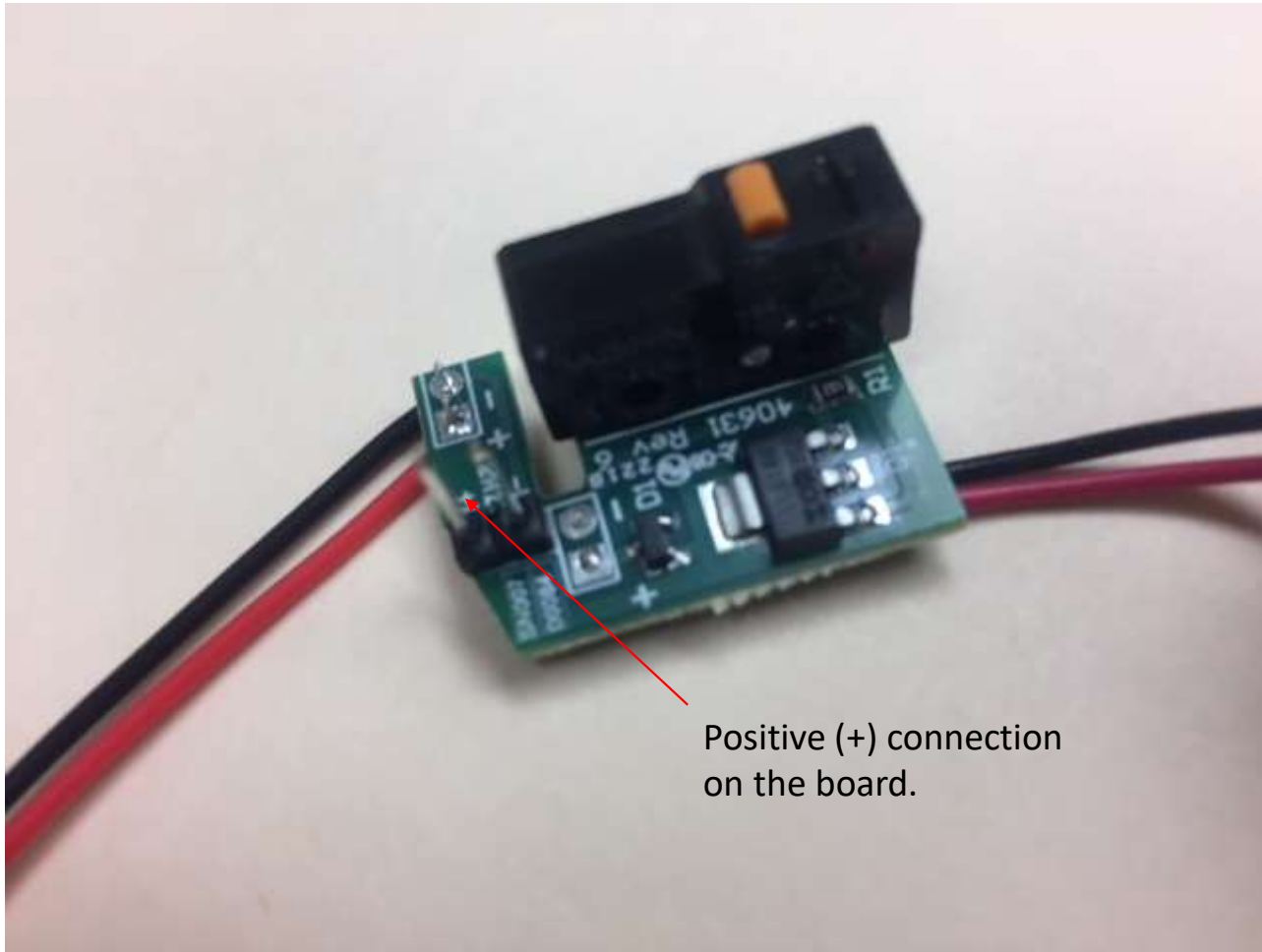




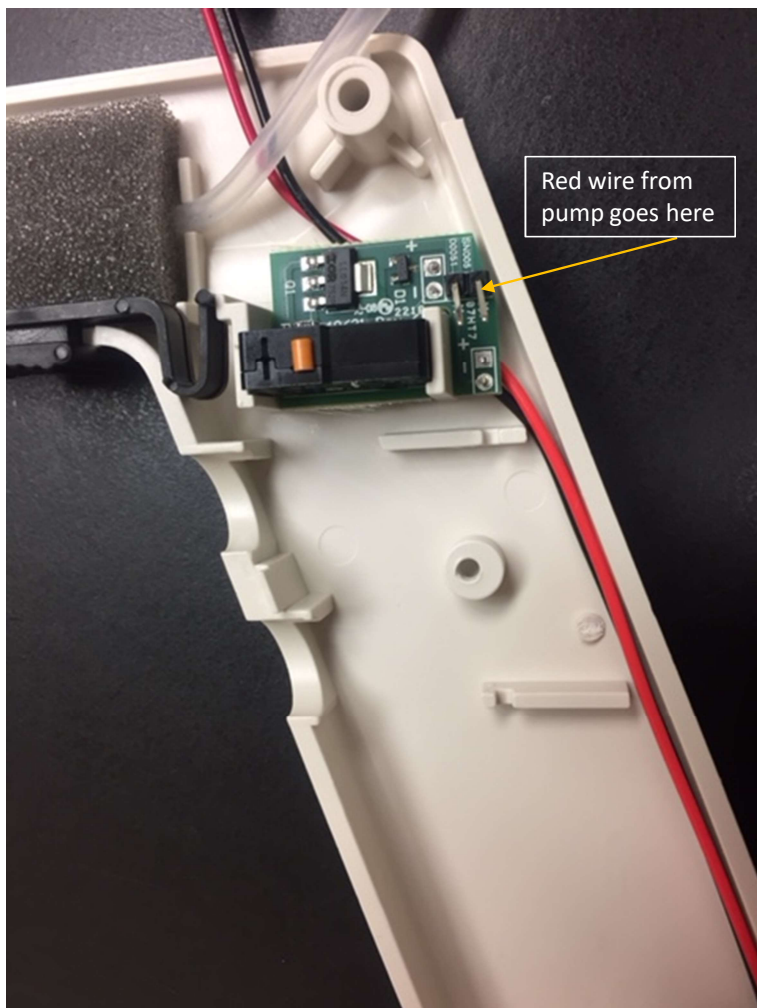
New Wire Harness
4-000-076

Old wire harness compared to the new wire harness (bottom).

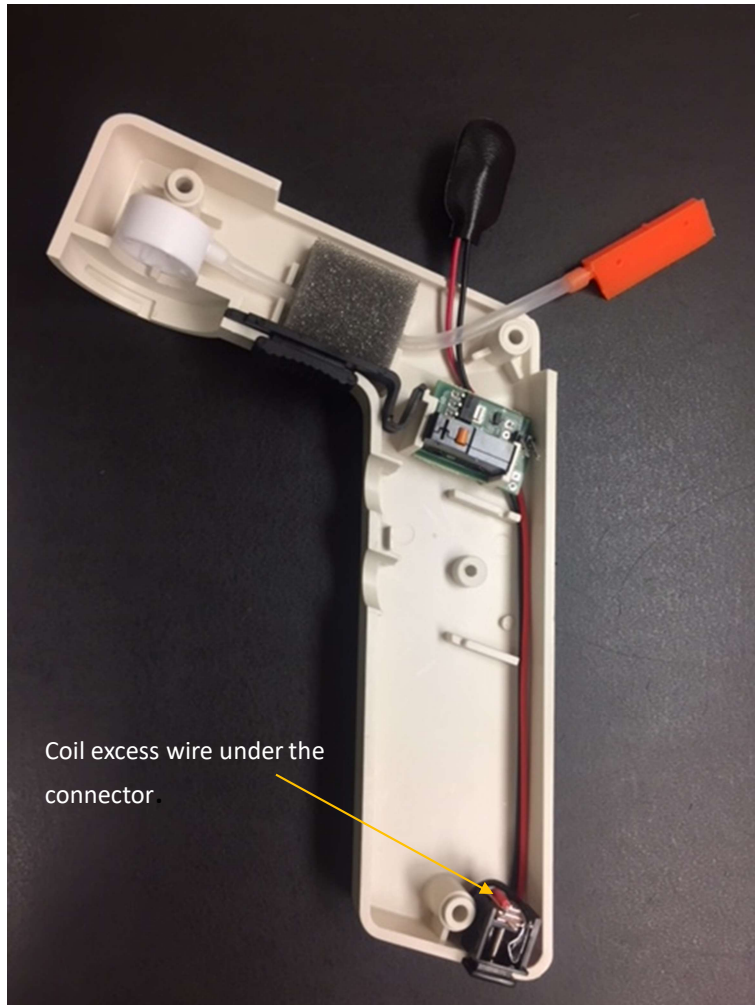
- Photo showing the old wire harness(above) and the new wire harness(below) with the printed circuit board attached.



Positive (+) connection on the board.

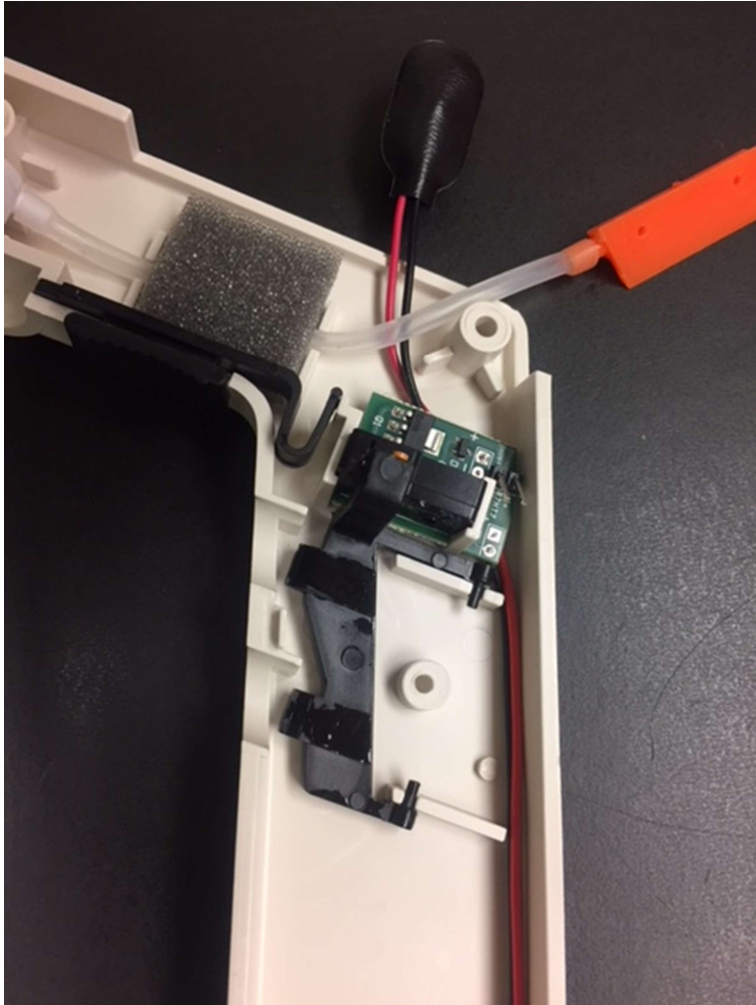


New harness installed. Note location of the red (+) wire from the pump (not shown) and the contact on the board.

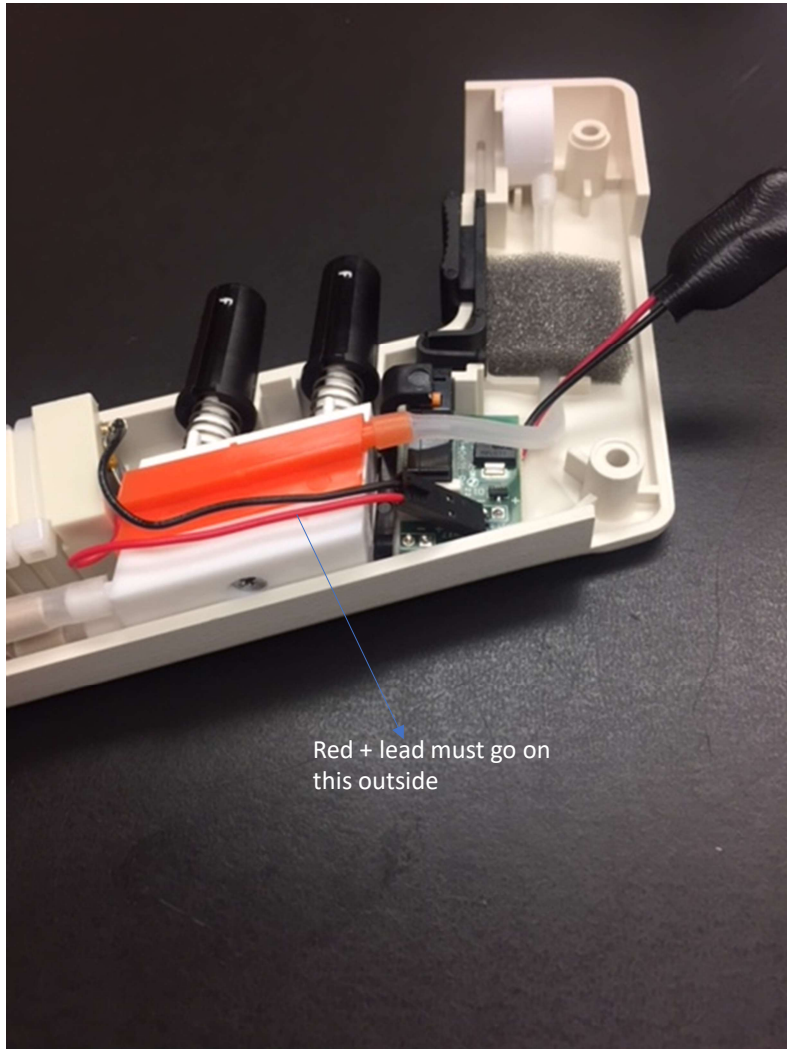


Coil excess wire under the connector

New wire harness routing. Coil the excess wire leading from the board to the charging port and rout excess under the port.



Wire harness installed and actuator switch installed. Note: the actuator switch may be gray, black or blue. They are the same.



This photo shows the proper connection of the motor leads as they connect to the board. It is **CRITICAL** that the red positive lead connects to the positive lead on the board. It will be the back prong coming off the board towards the back of the handle.

It will also be necessary to bend the two prongs slightly towards the valve body so all will fit when the top half of the handle is replaced.

You are now ready to place the other half of the handle onto the unit and screw the bottom screw and the front screw in place. Once completed, now reconnect the battery. Use caution when replacing the battery. Do not touch the contacts backwards. Once installed, close the battery door and screw the door in place.

The XP will now function for many years to come.