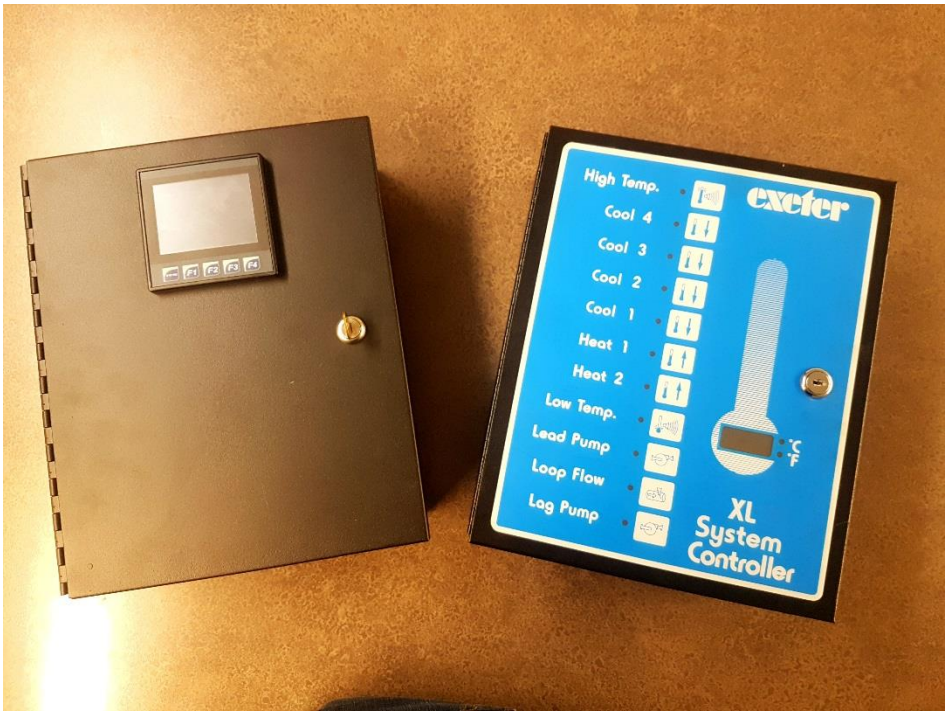
Gabriel Industries Inc.
System Integration

EXETER TO FLEXETER

Rev: 03/24

Conversion Manual



!!!WARNING!!!

YOU SHOULD HAVE A GOOD UNDERSTANDING OF THE ENTIRE SYSTEM AND ITS MECHANICAL COMPONENTS BEFORE CHANGING ANY SETPOINTS. IN ORDER TO REMAIN FLEXIBLE THERE ARE VERY FEW SOFTWARE RESTRICTIONS FOR SETPOINTS AND ONE MUST BE AWARE THAT CHANGING THESE SET POINTS COULD HAVE CATISTROPHIC EFFECTS.

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Purpose of this Manual

Removing old Exeter, Installing new Flexeter

If you have an old EXETER panel controlling the heating and cooling for a water loop and it needs replacing then this is the panel for you.

We have designed the new panel enclosure to be exactly the same as the old enclose. This means you do not need to remove the old enclosure. You only need to strip all of the old components out and install the new Flexeter components.

******You will need to re-use the old Latch/Lock******

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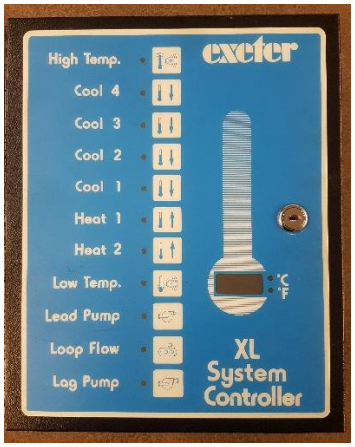

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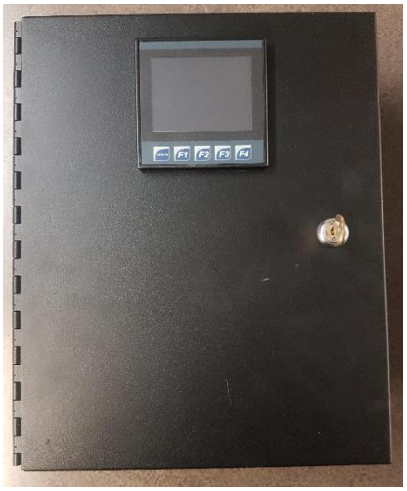
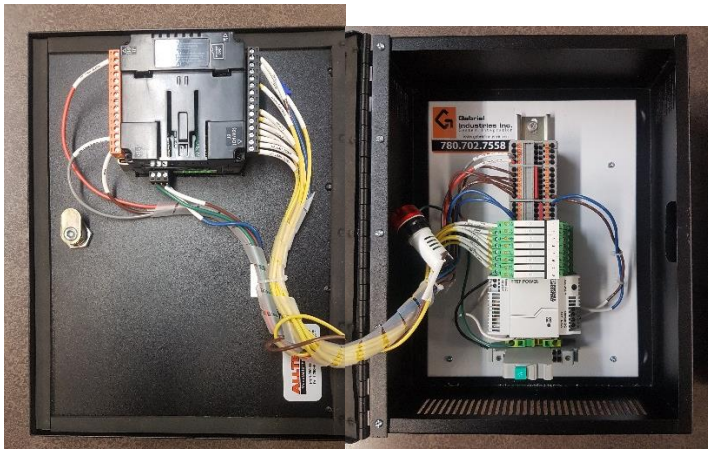




BEFORE YOU START

You will need some basic hand tools:

- Screw Drivers
    - Philips
    - Robinson
    - Flat Blade
    - 2.5mm Terminating screw driver
- Other tools
    - Side cutters
    - Channel locks
    - Wire strippers (good for 18-10awg)
    - Labeller or White tape and a sharpie
    - Digital Multimeter

WARNING

Turn off power before proceeding to STEP 1. More that likely there will be multiple power sources. Turn off all power sources and double check that they are off with a digital multimeter (AC and DC volts)

Verify new components

- You should have the following parts:
    - All in one Horner PLC
    - PLC should be mounted to a Door
    - Wiring harness should be wired to a white back pan
    - Door should have a piano hinge with 5 bolt holes in it that match up with the threaded holes on the enclosure.
    - There should be a LEGEND on the back of the door showing where to connect the old wiring on the new panel.
    - Drawings/specs
    - User Manual
    - You should have screws for holding the Door and Back pan in place

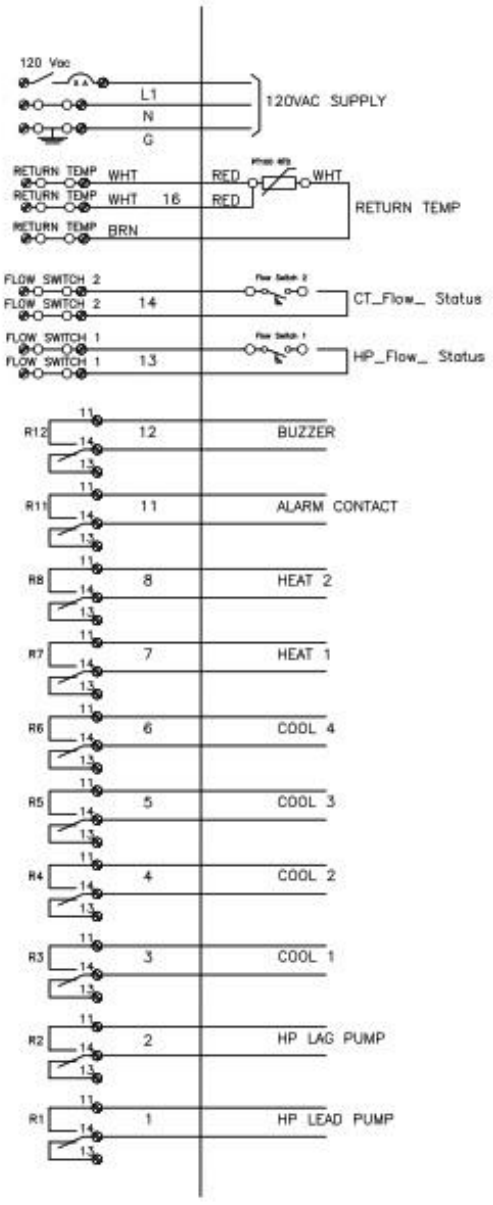
1) Step 1

LABEL THE WIRES

Label all of the wires!!!

You should have the following connections:

- COOL 4
- COOL 3
- COOL 2
- COOL 1
- HEAT 1
- HEAT 2
- ALARM
- LEAD
- FLOW SWITCH
- LAG
- PROBE (RETURN TEMP)
- POWER (Old Exeter Panel uses 16Vac this needs to be removed and switched to 120Vac)



2) Step 2

Disconnecting the wires

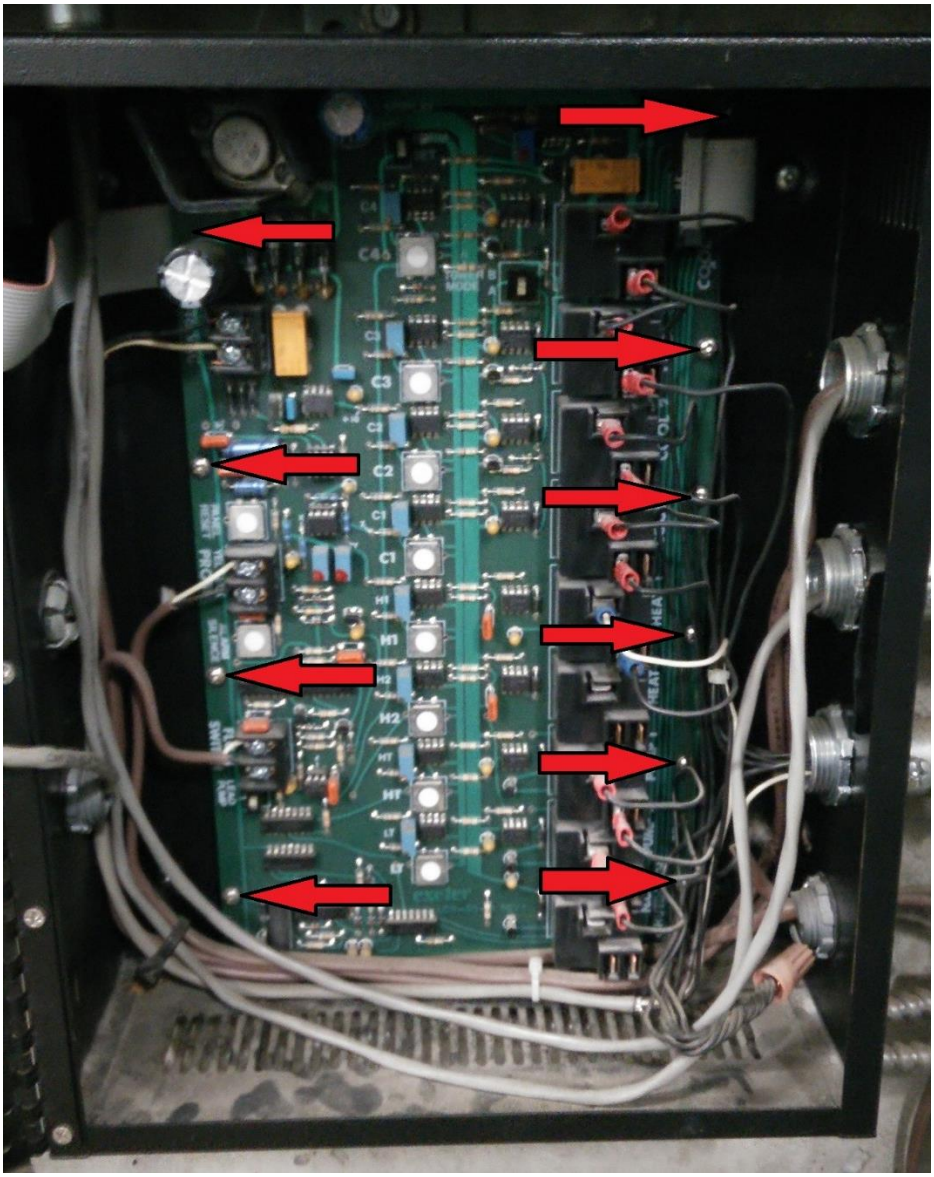
Once you have labelled all the wires you can disconnect them from the old circuit board(s).

Remove them one at a time. Be sure to leave as much length as possible so they can reach the new points in the new control Panel.

3) Step 3

Remove old circuit board(s).

Once you have no wires connected to the circuit board then you can remove all of the screws holding the circuit board to the back of the enclosure. Pull the old board out and set it aside. Keep the screws just in case.

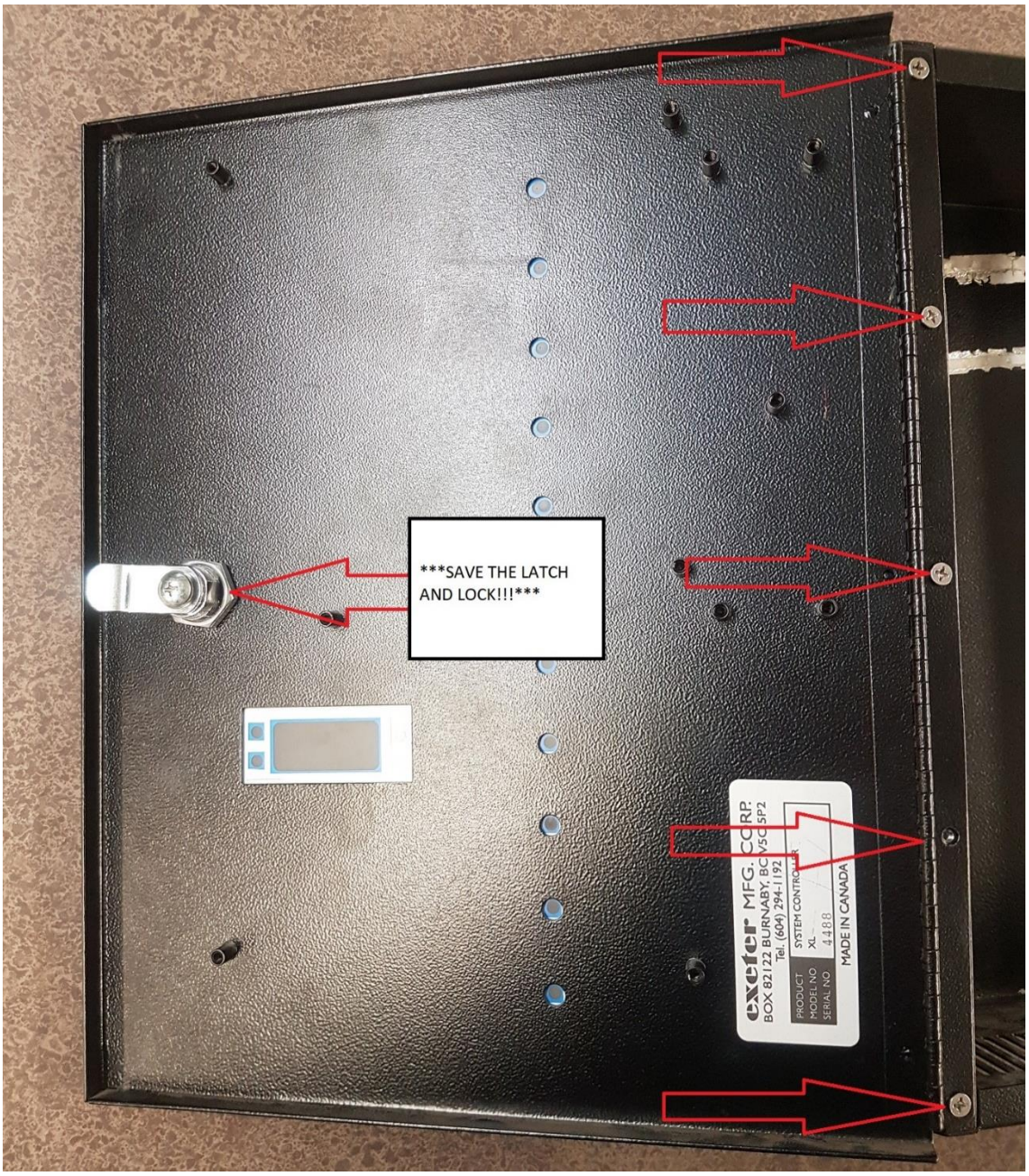


4) Step 4

Remove the old door.

Once the enclosure is empty then you can remove the door. There are 5 screws holding the door on. Remove them all and set the door aside. Save the LOCK/LATCH and screws from the old door, you will need to re-use them.

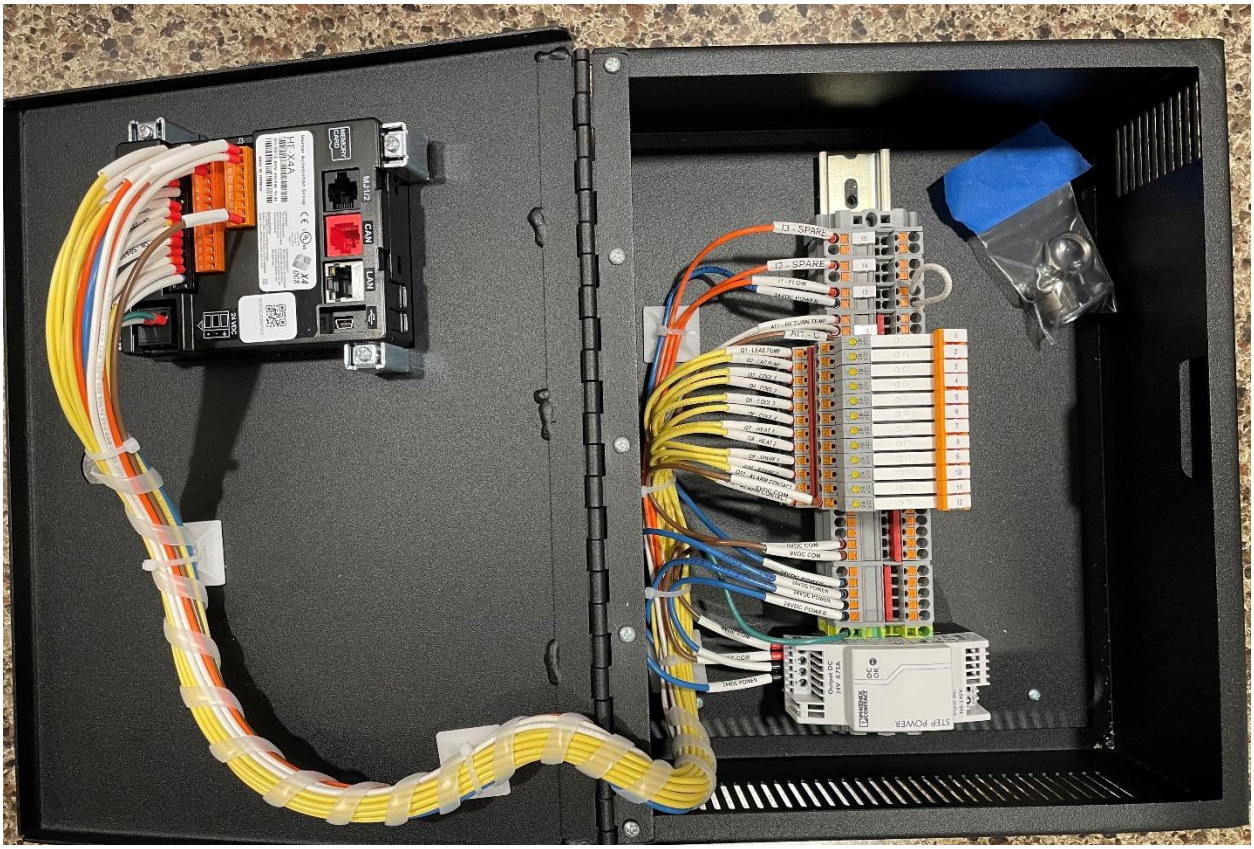
******You will need to re-use the old Latch/Lock******



5) Step 5

Install new components

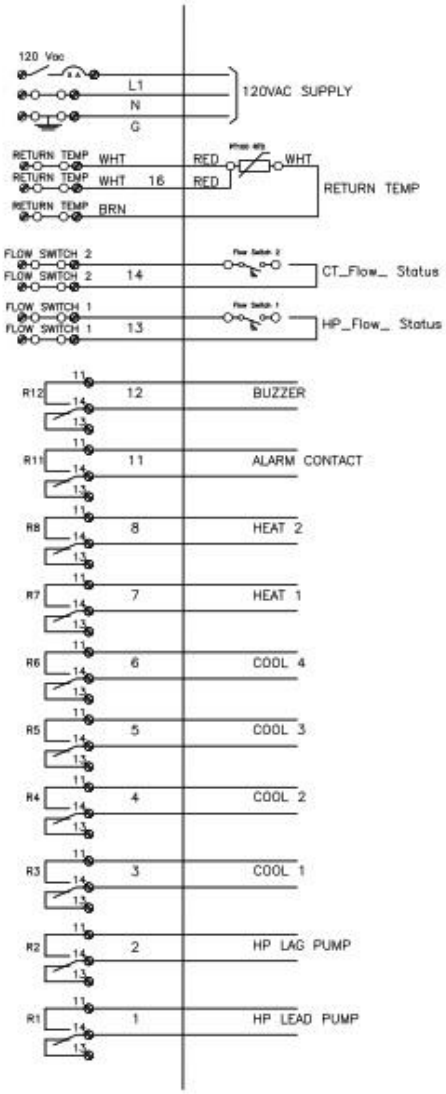
The new door and white back pan will fit the same bolt pattern as the old Exeter panel. Insert the back pan into the old enclosure. Screw the new door on and screw down the new back pan.



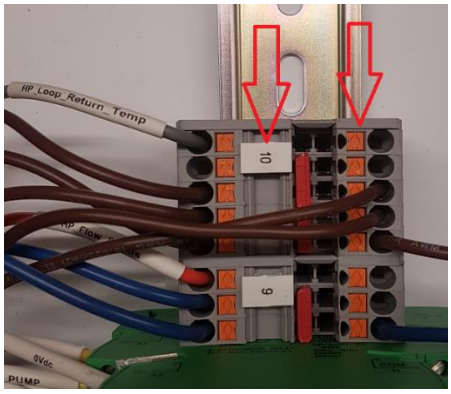
6) Step 6

Connect old wiring to new controls

Your wires that were labeled in Step 1 will match up with the wiring diagram below. You will need a new 120Vac source. We use some screw terminals and some push in terminals.



Above: 120Vac Line Voltage connections.



Above: Follow the labels. Push in the orange tab to open the terminal before inserting wire.

Above: Follow the labels. Use the Normally Open contacts 11 and 14 as shown on the wiring diagram.

7) Step 7

Turn on the Power

Turn on the 120Vac source and make sure there is power at the terminals mentioned above.

Once the power is on you are all done!

Refer to the user manual for operating instructions.