



# EHU 800 Series Main PCB Hardware Upgrade

## Tools Required:

- Standard and phillips screw drivers
- ¼ nut driver
- 2.5mm and 3.0mm standard screw drivers

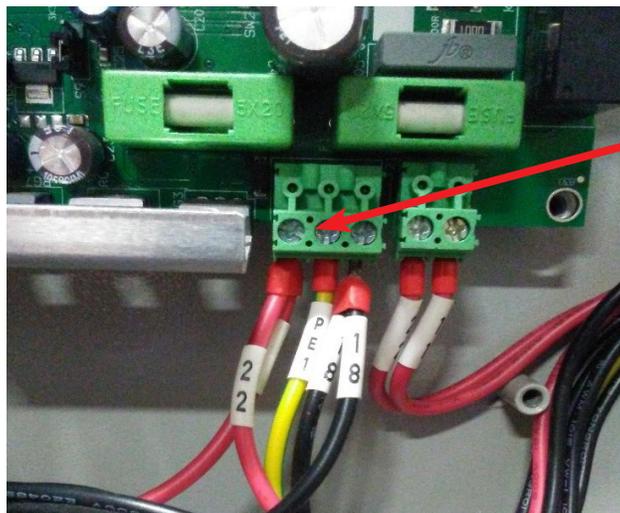
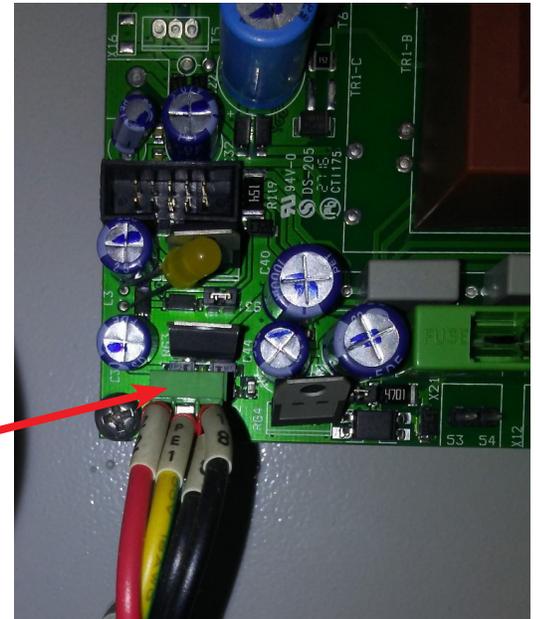
## Parts Required(included in P/N D129373):

- Main PCB
- Connector(for incoming 24VAC power)

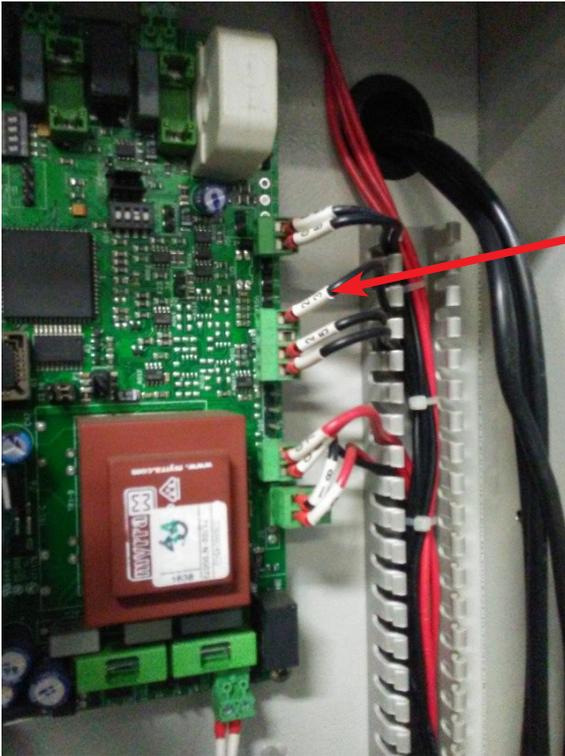
New replacement circuit boards are shipped with factory default settings. Please refer to your IOM for settings that may have been changed from the defaults for your application.

Power off the humidifier using the front panel rocker switch. Turn off the disconnect switch supplying primary power to the humidifier, lock out and verify that the high voltage supply to the humidifier is de-energized.

1. Unplug the connectors from the main circuit board (PCB).
2. Disconnect the tank electrode wire at the contactor and carefully remove it from the current transformer. An EHU- 801 or 803 will have one current transformer mounted on the upper right corner of the main PCB. An EHU-804 will have two current transformers which are mounted on a separate PCB.
3. Remove and replace the main PCB.
4. With the exception of X22, replace all connectors, reroute the tank electrode wire(s) through the current transformer, and terminate the electrode wire back on to the contactor.
5. The incoming power connection, X22 on the original main PCB, has been



6. The incoming power connection for the revised main PCB is on X20. This is a slightly larger connection and will require the new connector which was provided. **These wires must be transferred to the replacement connector observing the same orientation. Plug the properly wired connector into the main PCB X20.**

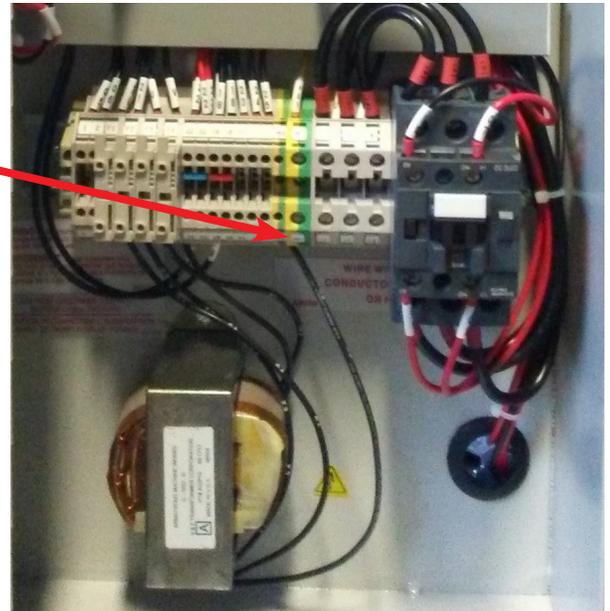


7. This is the previous revision of the main PCB. Connector X05 provides 24VDC supply power to the humidistat (or RH sensor), DC common, and the input for steam demand to the humidifier. Humidistat/RH sensor power connection and demand signal terminate as follows on X05: Pin 19 (wire 25/DC Common) = signal -, Pin 20 (wire 24/Steam Demand) = signal +, Pin 33 (wire 23/24VDC Supply) = V+



8. This is the revised version of the main PCB. Connector X05 still provides 24VDC supply power to the humidistat (or RH sensor), DC common, and the input for steam demand to the humidifier. Humidistat/RH sensor power connection and demand signal terminate as follows on X05: Pin 19 (wire 25/DC Common) = signal -, Pin 20 (wire 24/Steam Demand) = signal +, **Pin 18 = V+ (24VDC Supply) Wire 23 needs to be moved down one space to pin 18 from pin 33.**

9. The previous revision of the main PCB required the transformer to have a secondary with a grounded center tap. When installing the revised main PCB, this center tap must be disconnected from the ground terminal. Cut the wire and tape it off to prevent an accidental ground. A grounded secondary center tap will result in blown secondary fuses.



10. Power the humidifier on and make any required configuration changes to the humidifier. This includes EHU type, supply voltage, steam capacity and any other settings that may be different from the factory defaults. Please refer to the IOM for options.
11. Place a demand for steam on the humidifier and verify proper operation.