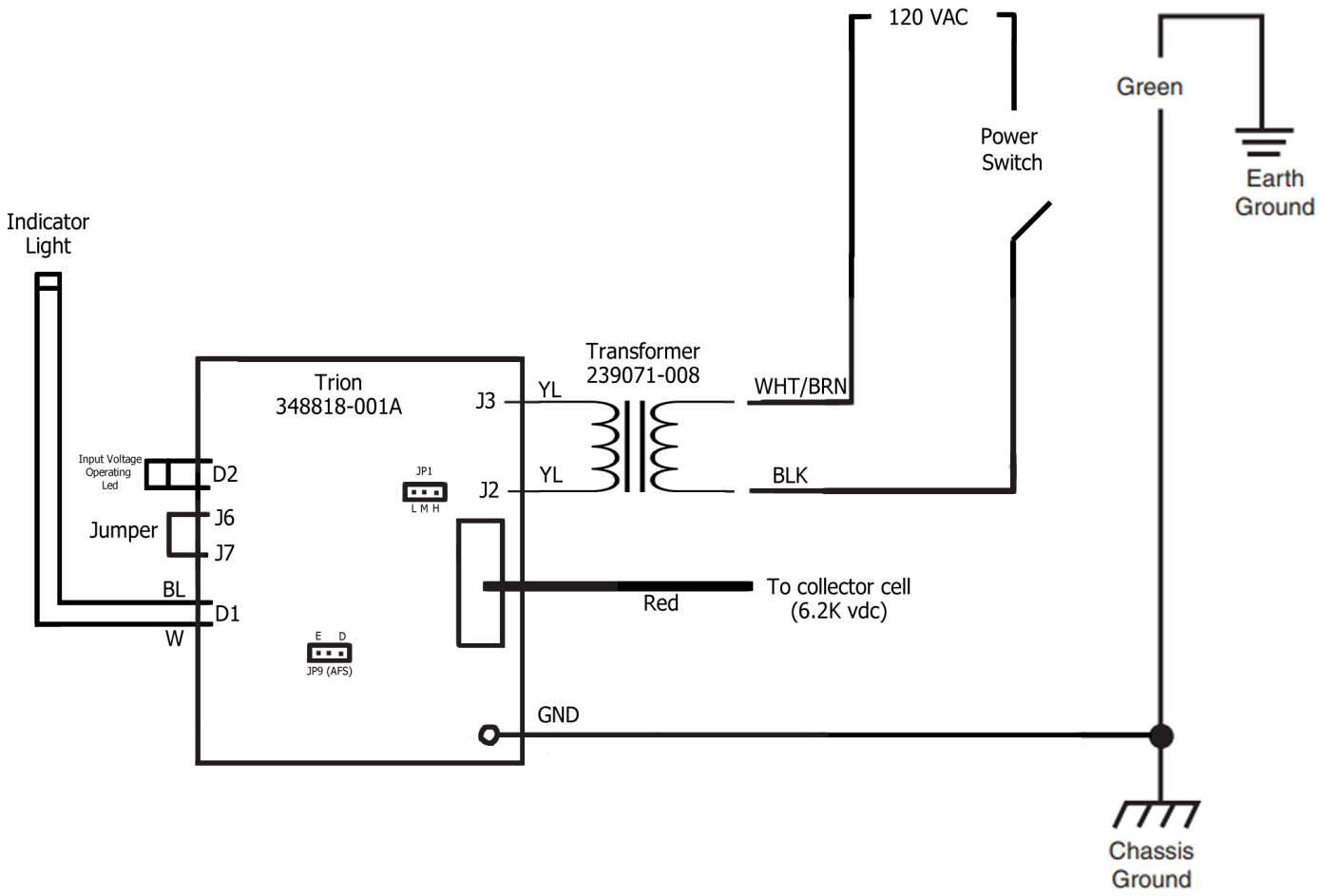
Trion 348818-001A Power Supply Retrofit for replacement of F858-0475 & F858-1002

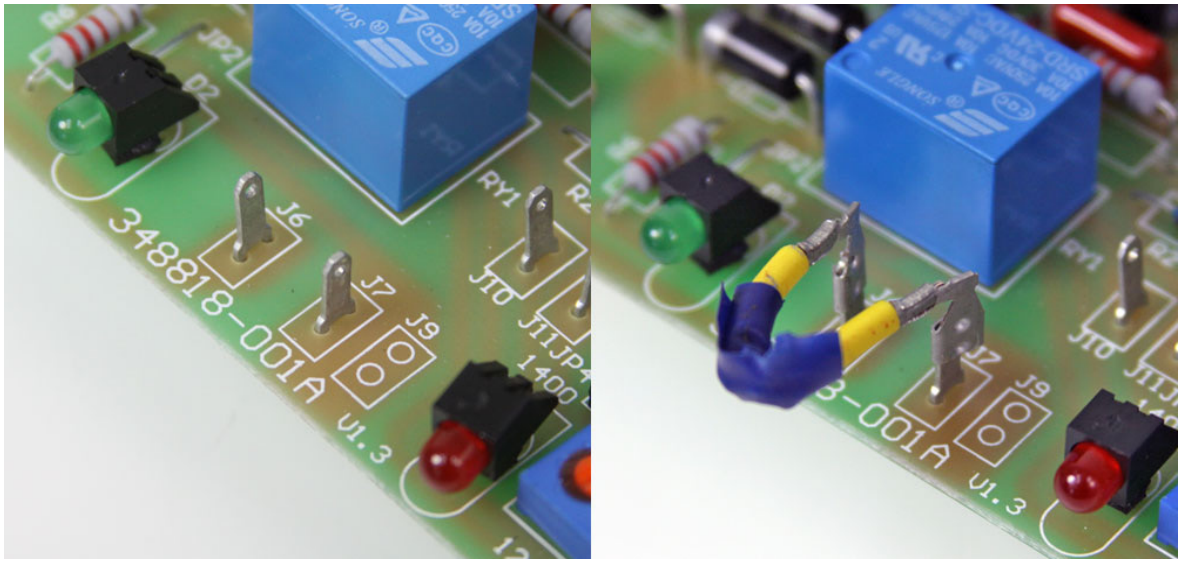
The Trion power supply 348818-001A with transformer 239071-008 can be used as replacement for power supply F858-0475 and kit F858-1002. It does require some creativity and soldering to install inside a White-Rodgers power box.

F858-0475 **or** F858-1002
Input: 120 vac 50/60 Hz
Output: 6450 vdc

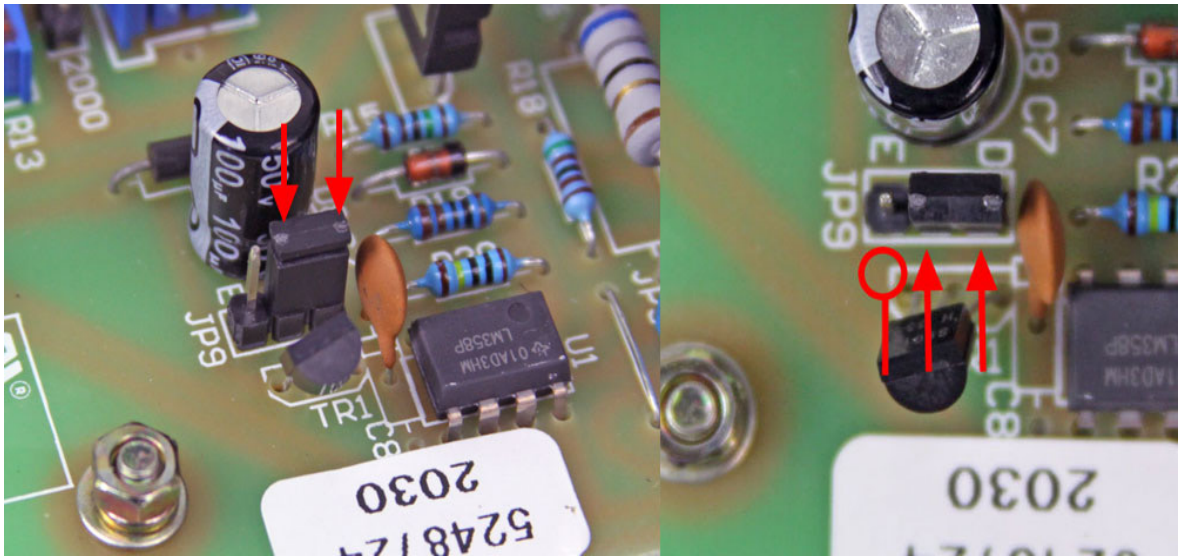
348818-001A **w/ transformer** 239071-008
Input: 120 vac 50/60 Hz
Output: 6200 vdc



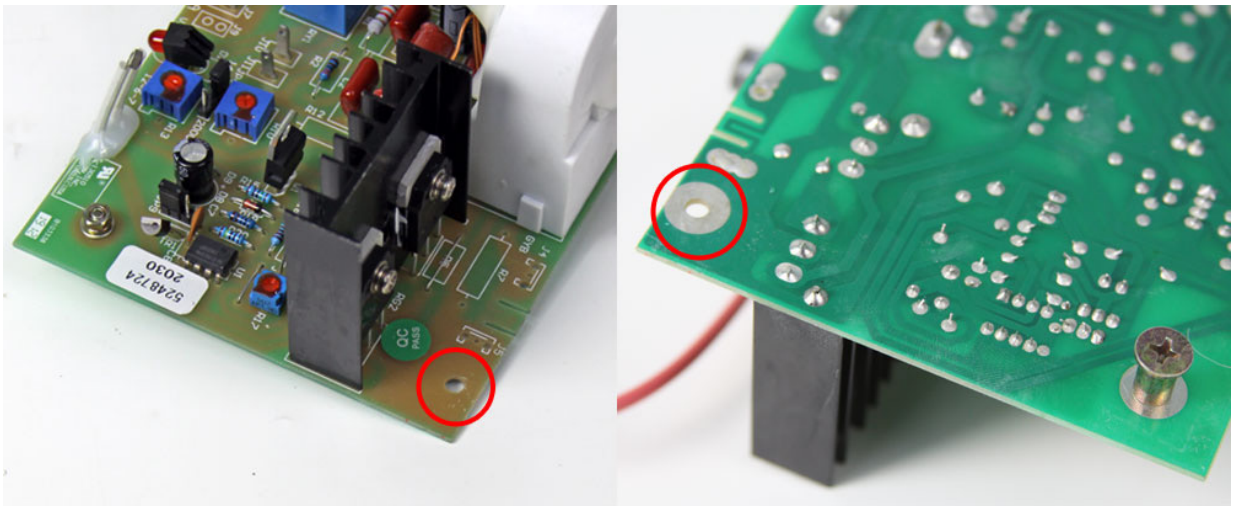
1. Terminals J6 and J7 must be jumped together with any wire or connector etc.



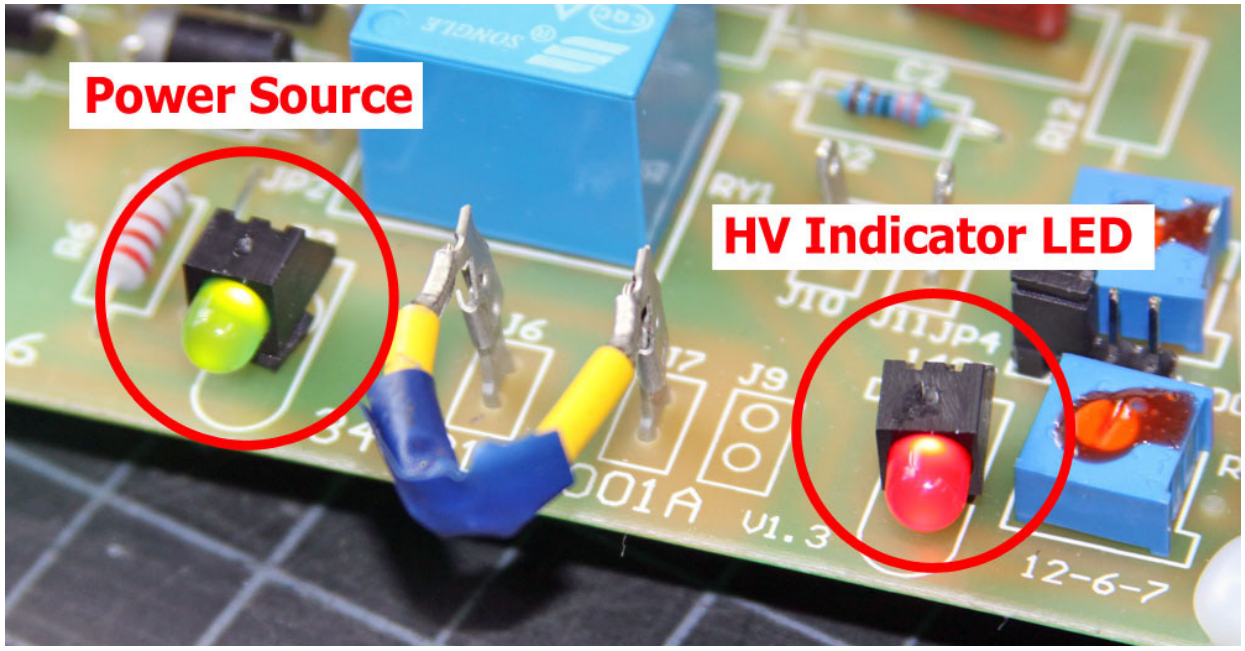
2. The Trion PS have an onboard air flow sensor. Bypass it by moving jumper on JP9 terminal to "D". position.



3. The power supply needs to share same ground as the chassis. The mounting hole on bottom right on the board is the ground connection. Underneath you should find soldering contact.

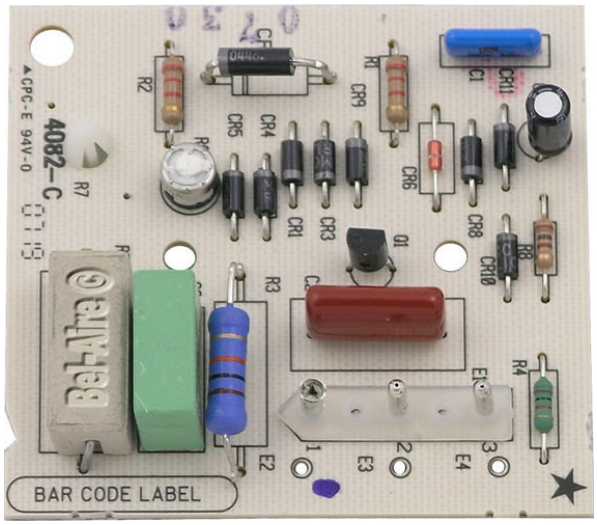


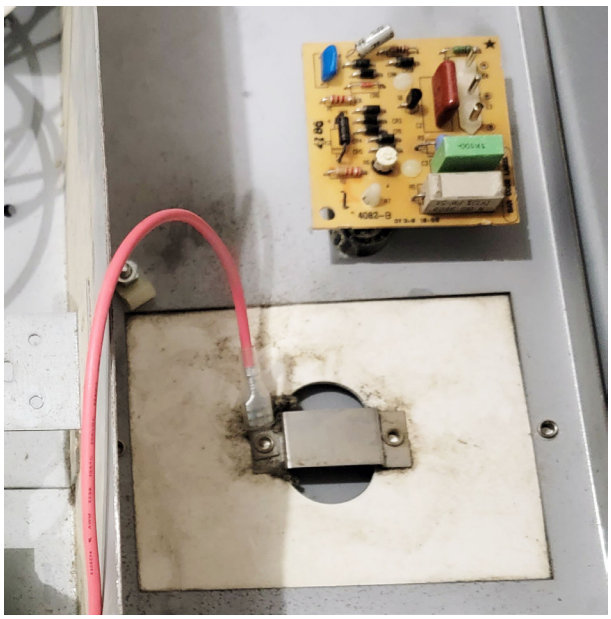
4. Green led (D2) indicates power source/transformer is live. Remove indicator red led light and solder original indicator light found on the powerbox. (cont.)



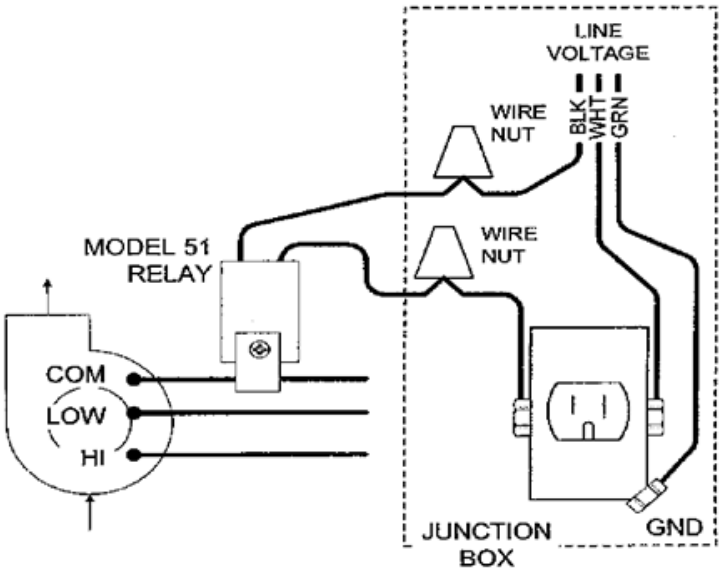
Use the original indicator light (F844-0130) and solder to the Trion PS terminal D1, where red led was previously removed.

5. Depending on wether power box had an internal air flow sensor (AFS) you may need to modify 120v power source. If the power box did not contain an internal air flow sensor then you may skip to testing step 7.





6. If original power box did have an internal air flow sensor, discard it and its wires associated with it. Find your 120v power source. The air cleaner needs to turn on and off with the blower. One option is to tap into blower power wire as 120v source. Second option, is to use general 120v current sensing relay to sense current on blower common wire.
You can use Aprilaire relay 51.



7. Do a stand alone test by plugging the powerbox to 120v. This will be your control test. The indicator light should go on and stay solid indicating the power supply outputs voltage normally.
When testing powerbox with the complete unit, you could get unusual behavior which can only be detected with a working power supply.

a. Initial run may cause some sparking but should stop. If indicator light stays solid then its working normally.
b. If step a indicates working normally, the unit may emit some ozone metallic like smell. This is normal and should dissipate. If ozone smell is detected in living area, reduce output voltage by instructions below.
c. The sparking from cell may not stop, or indicator light shuts off or its flickering. This means one of the cells are shorted. Inspect cells for broken ionizing wires or bent plates. Ultimately, do a bench test with power box and cells using jumper cables to detect short location.

8. If air cleaner sparks non stop or ozone smell detected in living area then reduce the output voltage. Locate jumper terminal JP1. Relocate the jumper setting from HIGH to MED (L) or LOW (L).