

# STEP BY STEP HOW TO WIRE A RUN CAPACITOR.

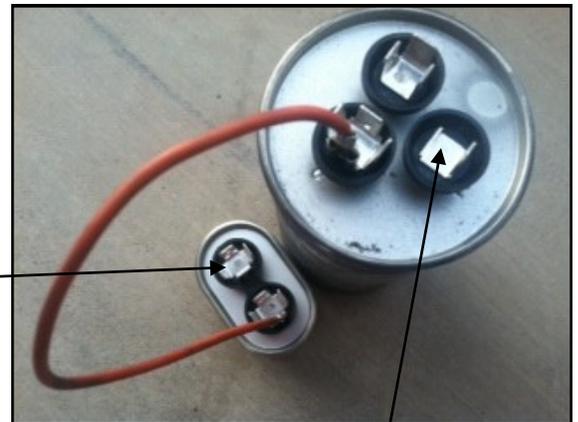
1. Run capacitors are designed to hold an electrical charge.. Before touching the terminals make sure to shut off the power to the unit and then take a screw driver and touch common to fan and common to herm, this will discharge the capacitor. See picture #1
2. Simply replace the wires on the capacitor one at a time.
3. Dual run capacitors have 3 terminals. See picture #1  
Common-this goes to line 2 on the contactor.  
Fan-this goes to the fan motor (usually a brown wire)  
Herm-this goes to the compressor (usually a yellow wire) if you follow it all the way to the comp. it goes to the S terminal of the compressor. (herm stands for hermetic, compressors are hermetically sealed)
4. Dual run caps can be replaced with 2 individual capacitors by taking a jumper wire from the common terminal of the old to one of the terminals of the new. See picture #2
5. Run capacitors are rated in microfarads or mfd. Example 45/5 dual run cap is a combo of a 45 mfd and a 5mfd run cap in the same housing. When replacing a cap. You can go up or down 10% mfd.
6. Capacitors are also rated for either 370 or 440 volts, you can replace a 370 with a 440 but not a 440 with a 370 (you can go up in voltage, but not down).
7. Run caps are filled with oil and the oil displaces heat created by the capacitor, when the heat is not adequately displaced the cap will expand and or burn from within and will need to be replaced.
8. Most misdiagnosed fan motors or compressors are from the run capacitor not holding its designed charge.
9. Run capacitors can be tested with a microfarad tester/multi meter.

**ALL POWER MUST BE SHUT OFF BEFORE REPAIRS ARE MADE. FIX MY OWN AC ACCEPTS NO RESPONSIBILITY FOR DAMAGES TO YOU OR YOUR PROP-**

Picture #1



Picture #2



This is the new Fan terminal

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The fan terminal is no longer used.