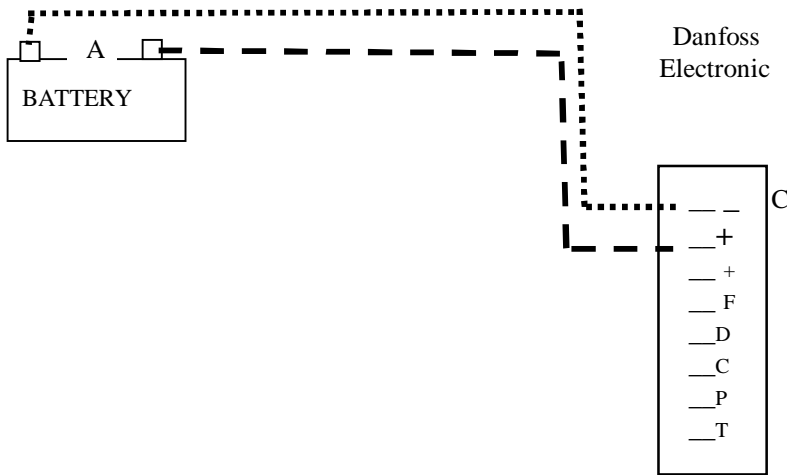


Trouble shooting the Electrical on a Nova Kool DC Electronic module



To Test Voltage on a Nova Kool

Using a voltage meter check the following.

- I. place the meter across the two terminals on the battery (A) Mark down the voltage here _____
- II. place the meter across the terminals on the electronic control marked (-) (+) (C) Mark down the voltage here _____
- III. There should be no more than 3% drop in the voltage between A & C
- IV. It is important that the battery voltage is between 12.8 & 12.5 as our unit has low voltage protection

Perform the same test with the unit running or trying to start

Trouble shooting Thermostat

If unit will not run check the following.

- I. What is the voltage in the three locations
- II. If voltage is ok, jumper between C & T on the electronic Danfoss board. This will check out the thermostat.
- III. If it runs when jumped then replace thermostat.
- IV. If the unit does not run when the C & T is jumped, and the voltage is between 13.5 and 12.4 then the Danfoss electronic control may be faulty.

To change the unit so it will run on a lower voltage

The compressor is designed to cut out on low voltage at 10.4 vdc.

To allow the compressor to run down to 9.6 before it cuts out add a jumper wire between P and C.
After adding the jumper the thermostat will still need to be on the C and the T terminals

To change the speed of the compressor

Add a low wattage resistor in series with thermostat wire connected to C on the module.
1500 ohm is high speed
No resistor is low speed
Speed is variable between 0 -1500 ohms

Trouble shooting Fan (optional)

- I. The positive lead (red) on the fan connects to (+) on the Danfoss electronic control
- II. The negative lead (black) of the fan connect to (F) on the Danfoss electronic control
- III. When the compressor is running the fan should be running
- IV. If it is not check the voltage between (+) and (F) if the voltage is above 12 the fan may need replacing