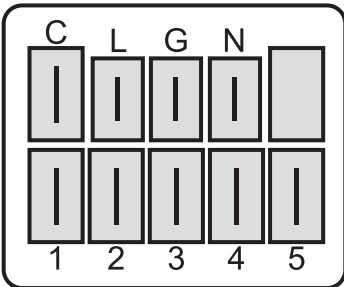


QwikSwap® X1 & X3 Troubleshooting Steps

PROBLEM	SOLUTION		
I don't know if I need to use the R terminal on the QwikSwap Board (X1 or X3).	Use of the R terminal on the QwikSwap (X1 or X3) in most installations is optional (some installations will require the use of the R terminal if the air handler fan control board outputs a DC voltage or if there is a resistor in the control wiring). Connecting the R terminal activates a delay that keeps the fan running for 3 minutes after the thermostat tells it to shut off. If you want this delay connect the R terminal to the 24 VAC terminal on the low voltage transformer (typically the red wire that also goes to the thermostat R terminal) and remove the jumper next to the R terminal.		
I connected the R terminal but now the QwikSwap (X1 or X3) will not turn off.	Connecting the R terminal activates the 3 minute delay after break feature. Sometimes the blower control board in the air handler has an additional delay that adds to the 3 minute delay of the QwikSwap. If you wish to disable the 3 minute delay on the QwikSwap, install the jumper on the two pin header next to the R terminal.		
I have read all of the troubleshooting steps but I still cannot solve the problem I am having.	Using insulated test leads carefully measure and record the voltage across the terminals listed below (measure for both AC and DC) and call: Mainstream Engineering for technical support (321-631-3550).		
	Measure Across These Terminals	Measured Voltage	Normal "Expected" Voltage
	C and 1 (if there is a wire on 1)		20-30 AC or DC
	C and 2 (if there is a wire on 2)		20-30 AC or DC
	C and 3 (if there is a wire on 3)		20-30 AC or DC
	C and 4 (if there is a wire on 4)		20-30 AC or DC
	C and 5 (if there is a wire on 5)		20-30 AC or DC
	C and R (if there is a wire on R)		20-30 AC
	L and N		120-240 VAC
Speed and COM		120-240 VAC	



R
R: DELAY
AFTER BREAK

For more details or information about QwikSwap visit www.qwik.com



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