

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. The diagram shows a terminal block with five columns labeled C, L, G, N, and an unlabeled column. Each column has two terminals. Below the terminals are numbers 1 through 5. A legend indicates that 'R' stands for 'DELAY AFTER BREAK'.	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

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

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