

Wiring Two Stage Compressor - 2nd Stage Notes – Lock-out Controller Board

<http://www.miamiheatpumps.com/2-SpeedWithDHRw-comments.pdf>

Figuring out how the 2nd stage of the Compressor was activated. In the schematic, DHR or Y2R energizes something called “RF” – which is identified as “Rectifier” on the schematic. When unit is wired up, You will find out that “RF” is a solenoid inside the compressor that activates the 2nd stage. See the attached schematic. I updated the original and renamed “RF” to “C2S”, or Compressor 2nd Stage. This schematic is for my records of what is actually going on – but you might find it useful.

Lockout Controller Board

Wired up a flow sensor to shut-down the compressor if the ground loop pumps stop working. This is working fine – the unit shuts down and blinks the Red Auxiliary LED on the Controller Board – just like the manual describes. However, the Fault/Alarm output (“L” Terminal of the Controller Board) does not activate as it should. This is based on what I read in the Diagnostic Manual downloaded from the following link:

<http://www.miamiheatpumps.com/Diagnostic.pdf>

The manual has a lot of great detail on the operation of the C516-HP Controller Board