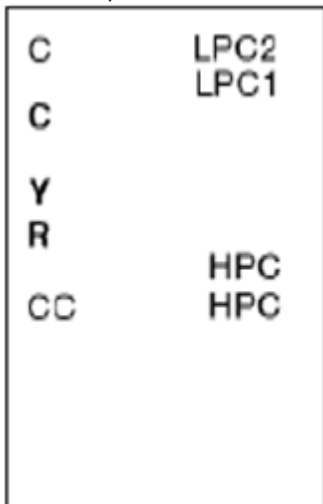


SUBJECT: Troubleshooting the Premiere 14 SEER AC Condensing Unit
This is the old style AC condensing units, not the new LX-13, LX-14 or Premiere XT units.

The Premiere 14 SEER AC is equipped with a solid-state diagnostic control board that helps to diagnose the most common AC system problems: high and low pressure cut-offs. The key issue is the need for correct phasing (similar to polarity in a DC system) of the system. Proper phasing is essential with this 230-volt system.

The diagnostic control utilizes a low ac voltage/current to sense and prove proper system pressure. Incorrect polarity can prevent the board from sensing properly and result in an inoperative system. This is the most likely culprit if you have a new installation, have a call for cooling, have given the unit the full three minutes for the delay on make and nothing happens. To check for proper phasing, first connect your voltmeter between **Y** and **C** on the board to ensure there is a call for cooling. If you have a call for cooling from your thermostat, you should read 24 volts at this connection. Now connect your voltmeter between **Y** and **R** on the control board. If your meter reads greater than 30 volts, the phasing is reversed. If the phasing is reversed, the best way to correct the situation is to reverse your two 115 volt leads (230 volt connection) at the contactor. (Reversing the leads at the transformer would also alleviate the situation but may cause confusion to the next technician that may work with the unit, because of color-coding in the wiring diagram.)



Premiere A/C diagnostic control board