No Heat/No output from Ignition Module

There have been a few calls where the ignition module is not outputting voltage to the inducer or gas valve with a call for heat to the SSE board. Here is a diagnostic procedure we use to determine the cause.

- Ensure there is 24 volts between W1 and/or W2 and common or ground at the thermostat connections on the SSE board.
- Ensure there is 24 volts at the ignition module terminals L,24VAC and W1 to common or ground
- Check for volts between L and W1. If voltage is @50-55 volts the transformers are out of phase. *This will lock up the ignition module so no outputs will occur.*
- If this is the case swap the secondary side on one of the transformers. *Usually, a replacement transformer will be the culprit. We recommend swapping that transformers secondary side.*
- If the volts reading is @ 0 volts between L and W1 then the transformers are in phase with each other.

The reason for this test procedure is because there are two transformers in the unit. One powers the SSE board and the thermostat inputs and the other powers the ignition module and the power through the roll outs and limit switches. If these two power sources are not in phase at the ignition module, the module will not operate. In most units the 75VA transformer is powering the SSE board and the 150VA transformer powers the ignition module. Consult the wiring diagram on the unit being serviced for transformer/unit wiring.