OLIMPIA SPLENDID

HOME OF COMFORT

Technical Service Letter

MAESTRO SMART

MAESTRO SMART 9 HP (Model # 02020)

B1021 – Serial interface board with
B1022 – Wired thermostat

For Technical Support contact:

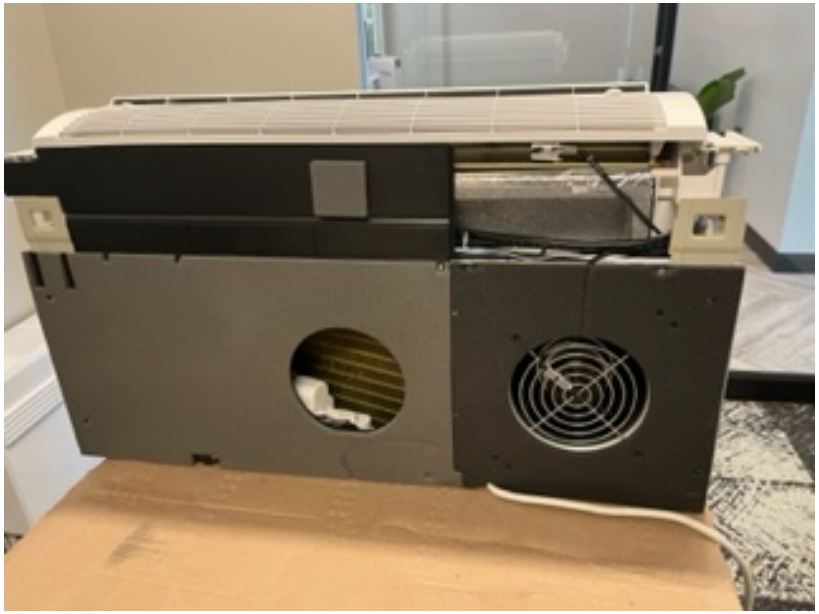
Tech Support

OLIMPIA SPLENDID HOME OF COMFORT

Techsupport@Olimpiasplendidusa.com
(800) 408-5196 (ext. 103)

Remove outer cabinet shell by removing bottom sliding panel and rail beneath supply air opening to expose 6 screws.

Remove access panel in upper right corner.



Here you will find B1021 interface board installation location

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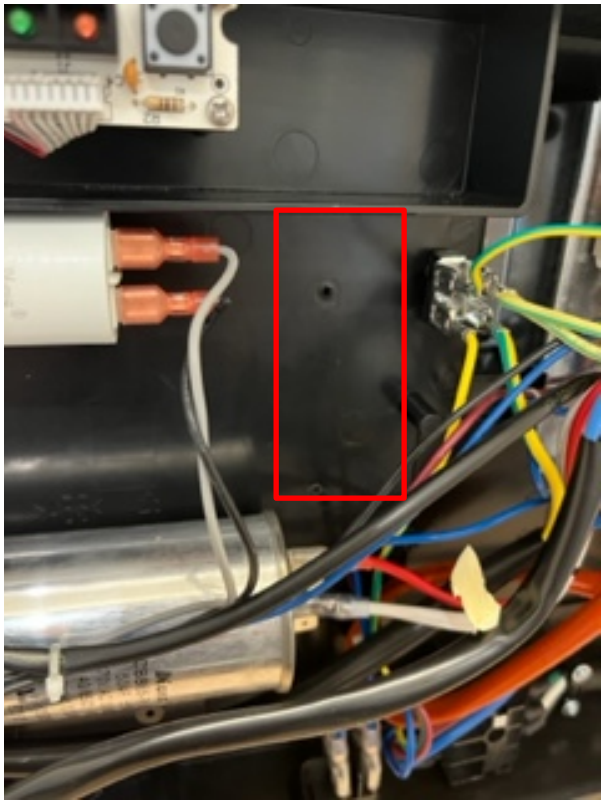
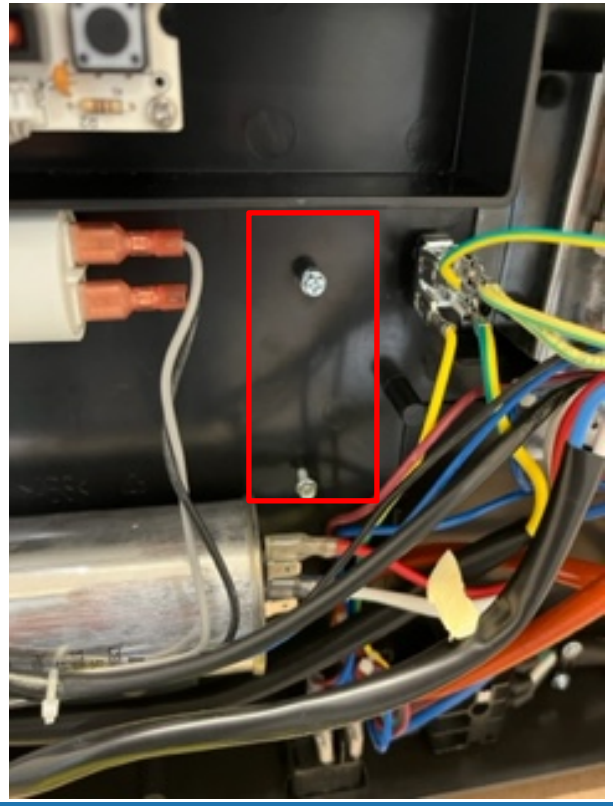
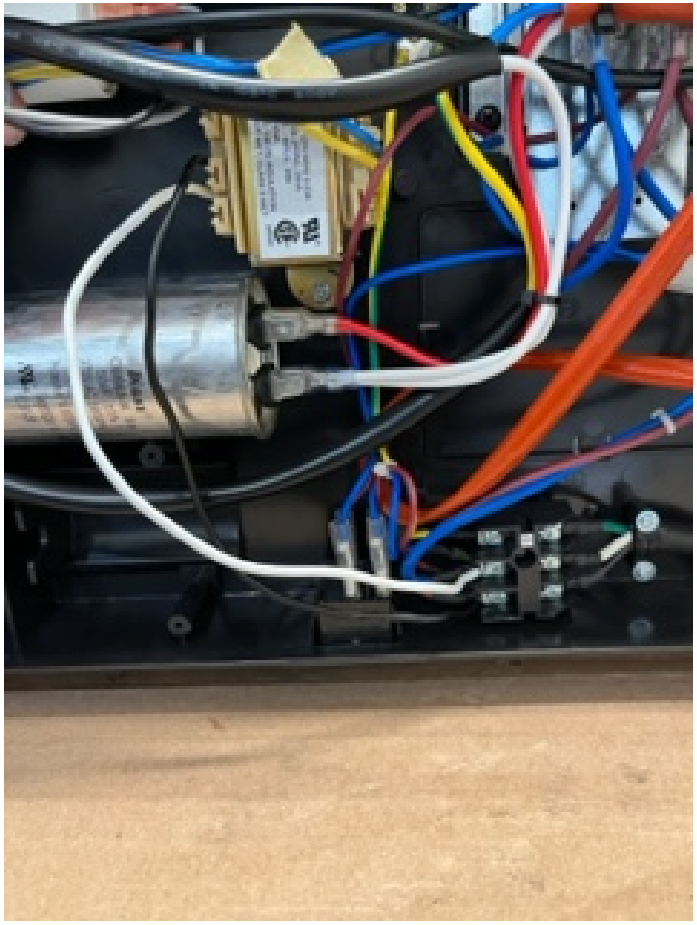
Remove electrical compartment cover. This is where we will be mounting the transformer and making connections.

Mount transformer as shown below.





Mount the B1021 interface board with screws provided.

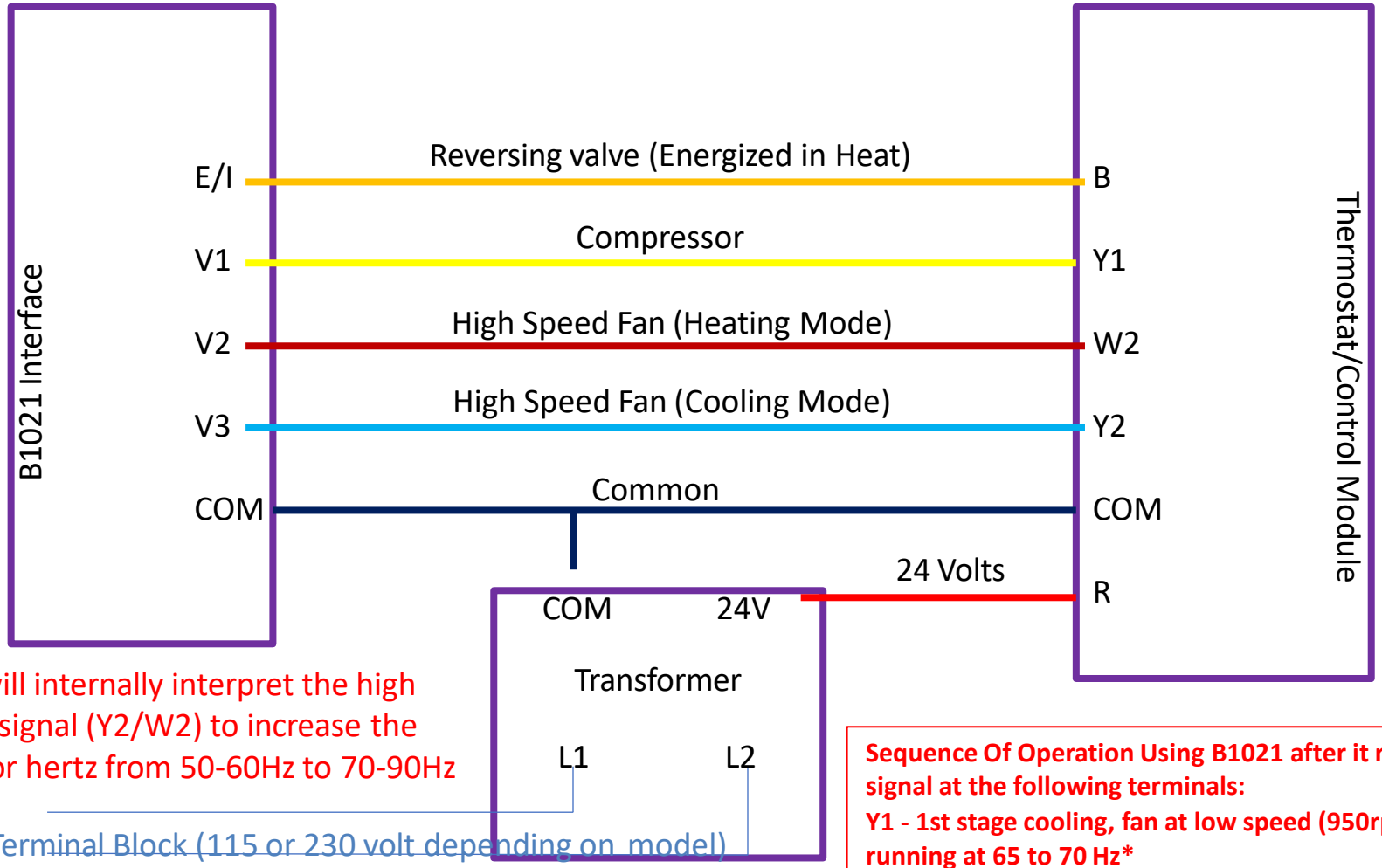


Wire 120V side to terminal strip L1-L2

Run the 24v side of transformer though chase at top of electrical box and around the left side of unit to the accessory board.

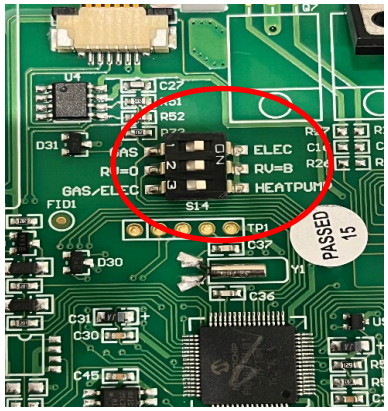
This is also a good time to run the grey communication cable that is supplied with B1021 interface board.

Wiring Diagram – 18-gauge 7 wire



The unit will internally interpret the high speed fan signal (Y2/W2) to increase the compressor hertz from 50-60Hz to 70-90Hz

To Main Terminal Block (115 or 230 volt depending on model)



Dip switches should be in the ELEC, RV=B, HP position to allow for proper delays and fan operation. Delays can be as long as 10 minutes after compressor turns off depending on stat model.

Sequence Of Operation Using B1021 after it receives a 24 vac signal at the following terminals:

Y1 - 1st stage cooling, fan at low speed (950rpm) and compressor running at 65 to 70 Hz*

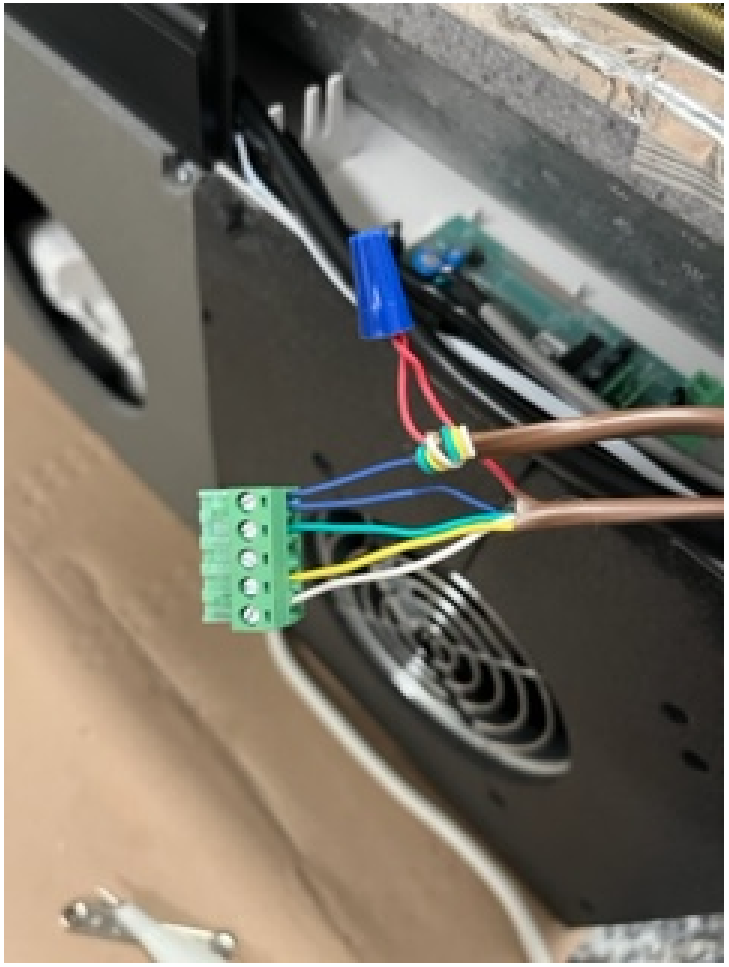
Y1 & B - 1st stage heating, fan at low speed and compressor running at 50 to 60 Hz*

Y2 & Y1 - 2nd stage cooling, fan at high speed (1330rpm) and compressor running at 70 to 90 Hz*

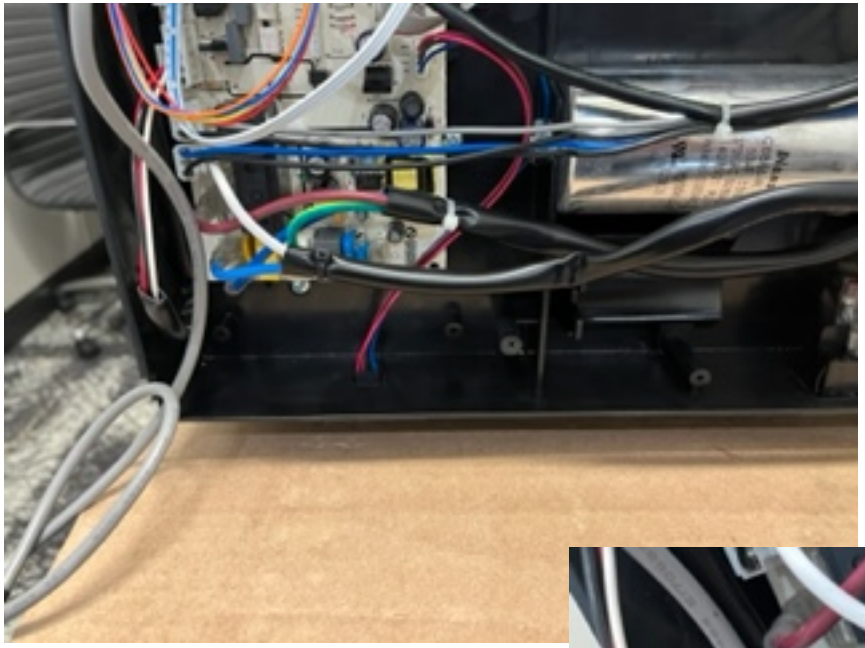
W2 & Y1 & B - 2nd stage heating, fan at high speed (1330rpm) and compressor running at 70 to 90 Hz*

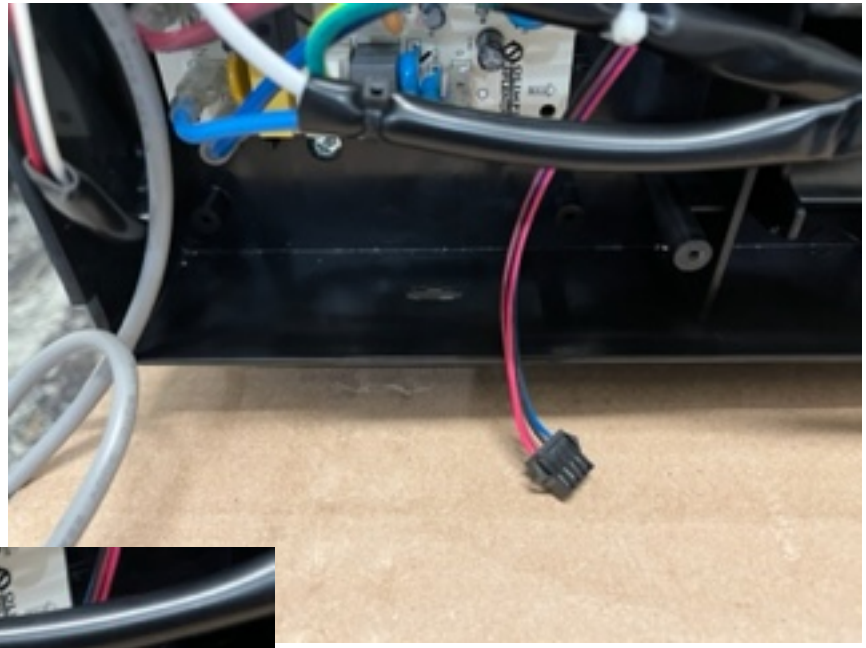
FAN ONLY MODE is not available

Plug comm. molex cable into X3 slot labeled on/off on B1021 interface board.

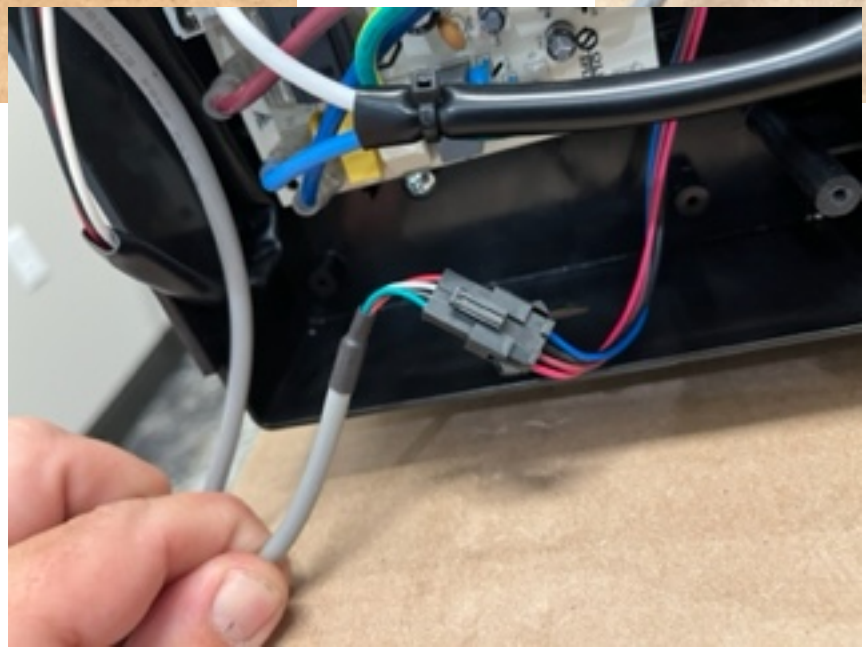


Wire in low voltage plug depending on wiring option chosen and plug into board. Example is showing option #2.





Remove comm. molex plug coming from control board to the slot at bottom of the electrical compartment.



Connect comm. molex cables

Route the thermostat wire from B1021 board through the chase and electrical compartment and exit the unit through the hole left by removing comm. cable in previous slide. Reinstall unit's cabinet shell and feed wire out.

Reinstall bottom sliding panel and there is a knockout on the backside for wire to exit the unit.