PTCS Heat Pump Thermostat Support Sheet

Manufacturer: Nest I, Nest II, Nest III
Thermostat Models: T100577, T200577, T3007ES

Is a Password Required? NO

1. How to enter installer set-up
   a. Press face of thermostat
   b. Rotate until Gear icon is on the top (Settings) and press the face of the thermostat
   c. Screen will automatically default to the home screen after 1 minute of inactivity

2. Determine system characteristics through T-Stat
   a. Press face of thermostat
   b. Rotate until Gear icon is at the top (Settings) and press the face of the thermostat
   c. Rotate until "Equipment" is displayed and press thermostat face
   d. Equipment detected will be displayed. With "Continue" highlighted in blue, press thermostat face again
   e. The system information will be displayed
   f. Press the thermostat face again and equipment settings will be displayed
   g. To exit make sure “Done” is highlighted in blue and press the face again

3. Check Compressor Lockout settings
   a. From Equipment settings accessed in Step 2, rotate until "Heat Pump" is highlighted and press the thermostat face
   b. "O" or "B" will be highlighted; press face of thermostat to continue. Caution: any changes made will be permanent.
   c. The screen will show "Use the heat pump compressor when the temperature is above: XX". "Always" or up to "5" degrees should be highlighted to meet the specification.
   d. To continue to check strip heat settings, press the thermostat face again

4. Check Strip Heat settings
   a. Follow steps 3-a through 3-d to view strip heat temperature settings
   b. The screen will show "Use the heat pump aux. heat when the temperature is below: XX". 35 degrees or below must be selected to meet the specification
   c. With "Done" highlighted in blue, press the thermostat face to return to Equipment settings OR
   d. Press face of thermostat
   e. Rotate until Gear icon is at the top (Settings) and press the face of the thermostat
   f. Rotate until "Nest Sense" is displayed and press thermostat face
   g. Rotate until "Heat Pump Balance" is displayed and press thermostat face
   h. “Max Savings” must be selected to meet the specification. “Done” will be highlighted to confirm, press the face
   i. To exit rotate the dial and make sure “Done” is highlighted in blue and press the face again
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5. Access Test Mode for testing system at full capacity
   a. Follow steps 2-a through 2-e to reach system information settings
   b. When system information is displayed, rotate dial to select "Test", press thermostat face
   c. To select the test you wish to run:
      A. Heating Mode: press face of thermostat as “Heat pump heating” should already be selected
      B. Cooling mode: rotate dial to select "heat pump cooling" and press face of thermostat
   d. Wait at least 10 minutes before taking static pressure readings and inserting flow plate for Trueflow plate test.
   e. Wait at least 15 to 20 minutes before doing temperature split readings for refrigerant test. The longer the system is allowed to run, the more likely it will reach a steady state

6. Exit Test Mode
   a. While in test mode, with "Done" highlighted, press the face of the thermostat
   b. System information will be displayed, "Continue" will be highlighted, press thermostat face again
   c. Equipment settings will be displayed, "Done" will be highlighted, press thermostat face again to fully exit

7. Exit Set-Up Mode
   a. From Settings screen, rotate to "Done" and press the thermostat face
   b. If screen is left untouched for 1 minute, it will return to the home screen by default

Resources: https://nest.com/
Sources: https://nest.com/support/thermostat/