



### BEHIND THE ACCESS PANEL

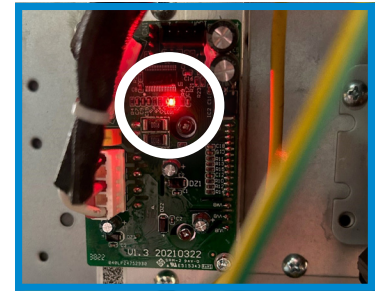
Removing the access panel reveals the unit control boards: These control boards, which have been installed in both straight cool and heat pump applications in the 14.3 SEER2 line, are **designed to protect the unit**, and, if there's a problem, **to tell you exactly what's wrong**.

### FAN CONTROL BOARD

The smaller of the two boards controls the fan motor. Look for the **RED LED**.







IF...	THEN...
 <b>ON</b>	Fan motor is running properly.
 <b>BLINK</b>	Fan motor has an issue.

**To troubleshoot:** **1** Disconnect the power, **2** Unplug the fan motor using the quick-connect, and **3** Test the fan motor.



### MAIN CONTROL BOARD









The larger board is a DC inverter. It controls the compressor and monitors voltage to the unit and the sequence at startup. The compressor comes on first, then the motor comes on.

IF...	THEN...
 <b>OFF</b>	 <b>ON</b> Outdoor unit is running properly.
 <b>OFF</b>	 <b>BLINK</b> Outdoor unit is in standby mode and may be running a diagnostic. Wait up to 5 minutes for this cycle to complete.
 <b>BLINK</b>	 <b>ON</b> The outdoor unit found an error. Refer to <b>LED DIAGNOSTIC TABLE</b> . System will try to restart. Wait up to 5 minutes. If system cannot clear error, it may lock. See <b>LOCKED SYSTEM TABLE</b> to diagnose and fix the error.







### LED DIAGNOSTIC TABLE

**IF GREEN ON AND YELLOW BLINKING SYSTEM FOUND ERROR**  
\*The number of times the light blinks every 8 seconds indicates issue below\*

-  **1x** Outdoor unit coil (T3) temperature sensor error
-  **2x** Ambient (T4) temperature sensor error
-  **3x** Compressor exhaust (T5) temperature sensor error
-  **4x** Low pressure protection
-  **5x** High pressure protection
-  **6x** Outdoor unit coil (T3) high temperature protection
-  **7x** Compressor exhaust (T5) high temperature protection
-  **8x** Fan motor feedback error

### LOCKED SYSTEM TABLE

**IF GREEN ON AND YELLOW BLINKING AFTER 5 MINUTES, SYSTEM IS LOCKED**

-  **4x** Low pressure protection occurred 6 times within 60 minutes.
-  **5x** High pressure protection occurred 6 times within 60 minutes.
-  **6x** Outdoor unit coil (T3) high temperature protection occurred 6 times within 60 minutes.
-  **7x** Compressor exhaust (T5) high temperature protection occurred 6 times within 60 minutes.



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# TROUBLESHOOTING GUIDE

## THE GREEN LIGHT IS STILL BLINKING... WHAT'S NEXT?

If you gave the outdoor unit 5 minutes to reset and run the self-diagnostic, and the unit is not on or did not come out of standby mode, it may be time to do a full system reset.



The system will **NOT** run:

- ▶ If the board finds a fault and locks the system.
- ▶ If system pressure is **NOT** between 80 and 500 psi.

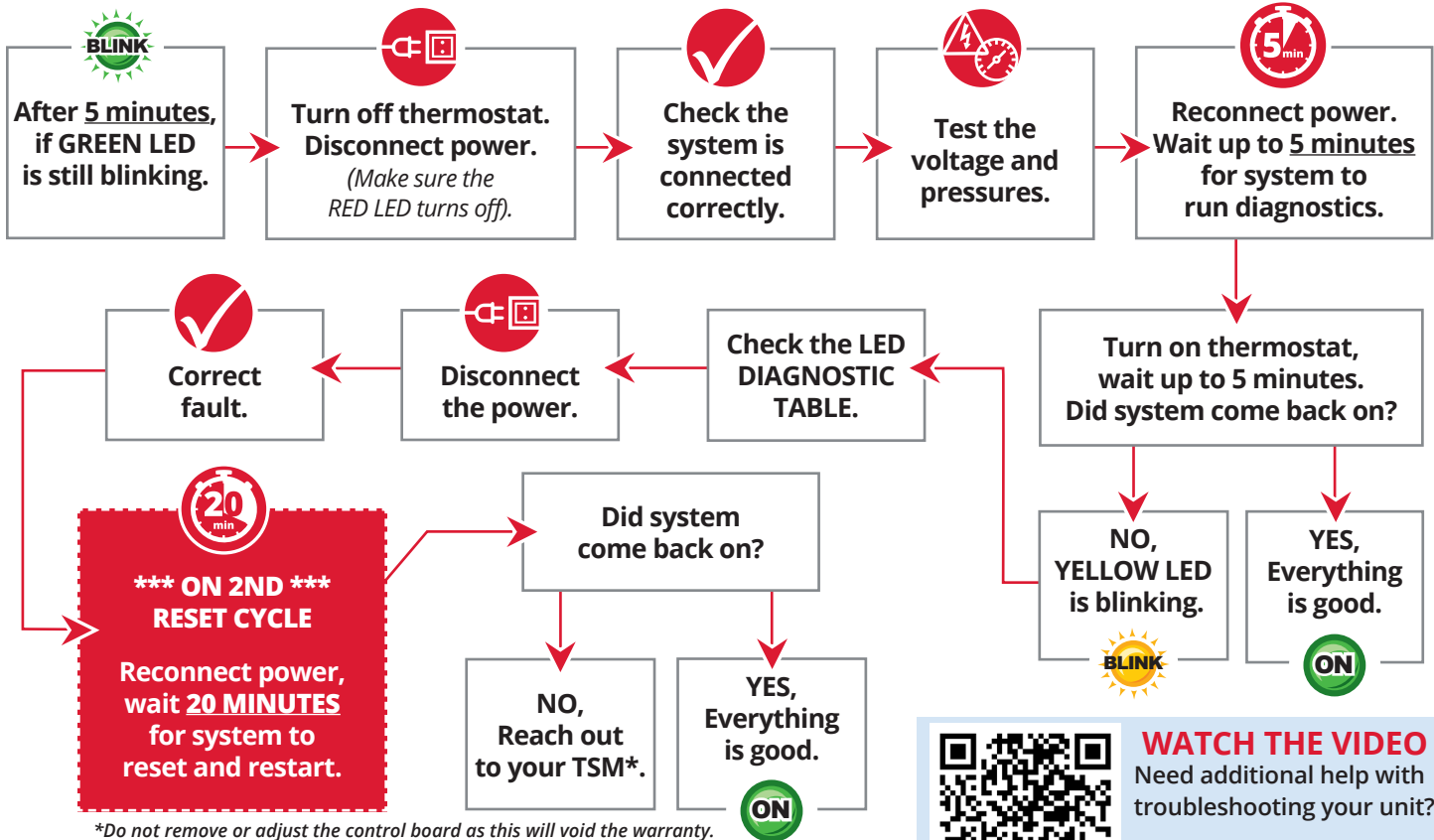


**NOTE:** While unit is in standby mode (GREEN LED blinking) the unit is:

- 1 waiting for a signal from the thermostat.
- 2 if you have recently changed the temperature, then it is processing.

Wait up to 5 minutes for the unit to come on (STEADY GREEN) or display a fault light (BLINKING YELLOW). **Do NOT change the thermostat until the unit starts or shows a fault.**

## TO CONDUCT A SYSTEM RESET



\*Do not remove or adjust the control board as this will void the warranty.



### WATCH THE VIDEO

Need additional help with troubleshooting your unit?

Scan this QR Code to watch the video.

[ChadwellSupply.com/BrothersHelp](http://ChadwellSupply.com/BrothersHelp)

## Brothers 14.3 SEER2 Condenser

*Smaller, tougher, stronger—with clear diagnostic lights for fast, easy troubleshooting.*

New product features meet or exceed current SEER2 regulations while protecting the compressor and delivering a quieter, more efficient, and easier to maintain condenser.

- ▶ The main control board is a **DC inverter**, to achieve the 14.3 SEER2 rating.
- ▶ The boards are installed in both the **straight cool** and **heat pump** applications.
- ▶ Designed to **protect against catastrophic failure**.
- ▶ **High and low-pressure switches** help protect the unit.

Learn more: [ChadwellSupply.com/BrothersHelp](http://ChadwellSupply.com/BrothersHelp)



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