

TROUBLESHOOTING GUIDE

An Exclusive Brand of Chadwell Supply

5 SERIES

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

The Smalle	for the two boards controls the fair motor. Look for the RED LED.	
IF	THEN	
ON	Fan motor is running properly.	
BLINK	Fan motor has an issue.	
To troubleshoot: 1 Disconnect the power, 2 Unplug the fan motor using the		

quick-connect, and 😉 Test the fan motor.



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

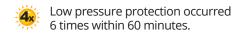


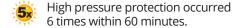
LED DIAGNOSTIC TABLE

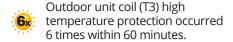
*The number of times the light blinks every 8 seconds indicates issue below			
	Outdoor unit coil (T3) temperature sensor error		
2	Ambient (T4) temperature sensor error		
3 x	Compressor exhaust (T5) temperature sensor error		
4x	Low pressure protection		
5 x	High pressure protection		
6 x	Outdoor unit coil (T3) high temperature protection		
7 x	Compressor exhaust (T5) high temperature protection		
8 x	Fan motor feedback error		
9x	Temperature sensor error		

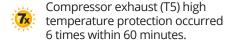
LOCKED SYSTEM TABLE

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









Fan motor feedback error occurred 3 times within 20 minutes.















TROUBLESHOOTING GUIDE

An Exclusive Brand of Chadwell Supply

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.

TO CONDUCT A SYSTEM RESET





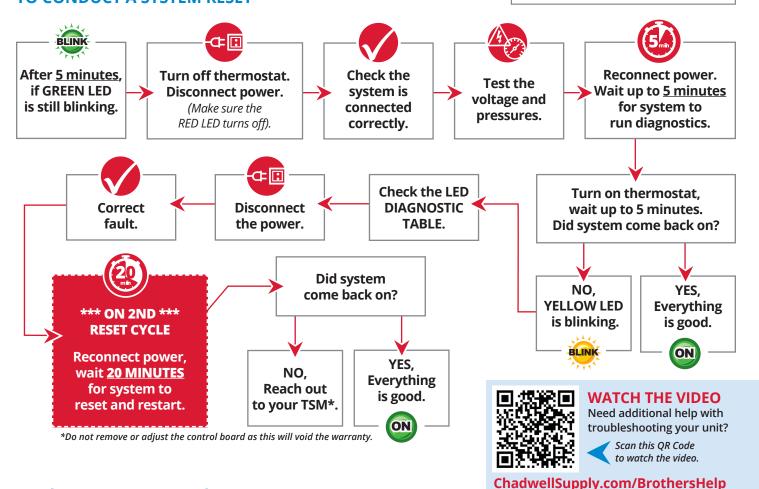
NOTE: While unit is in standby mode (GREEN LED blinking) the unit is:

waiting for a signal from the thermostat.

5 SERIES

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.



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/Brothers



