

TECHNICAL SERVICE BULLETIN

TSB C-GN-OT-0083

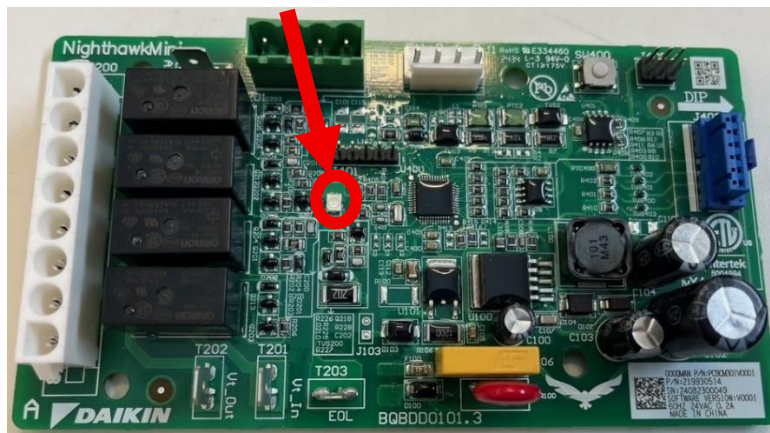
Date: August 1, 2025
To: All Service and Parts Managers
From: Technical Services Department
Subject: **R32 Refrigerant Detection System (RDS) Control Board and Sensor Troubleshooting**

This is an important Technical Service Bulletin to be carried out by trained and certified service technicians. The intent of this bulletin is to inform our customers of an increase in warranty claims that has been identified on the RDS control board and sensor. Through a 90-day report data analysis, **greater than 80%** of the claims have been determined to be “No Fault Found.”

One possible cause being investigated is misdiagnosis of the board or the sensor. Before replacing the RDS control board, follow this troubleshooting procedure of the board and sensor. The following troubleshooting guide should be used to determine whether there is an RDS board failure, sensor failure, or normal operation. **After applying main power to the system, please make sure there are no active thermostat calls for fan, heating or cooling, and wait 2 minutes for the system to reach an idle state.** During this 2-minute wait, you might see the blower turning on and off, you might hear relays operating on the control board and see LEDs flashing. This is all normal. Please wait for the full 2 minutes before continuing with the troubleshooting.

1. Identify the RED Status LED on the control board (See images below of the three production control boards that contain this RED Status LED)

RDS Control Board (PCBCM301V0001) RED Status



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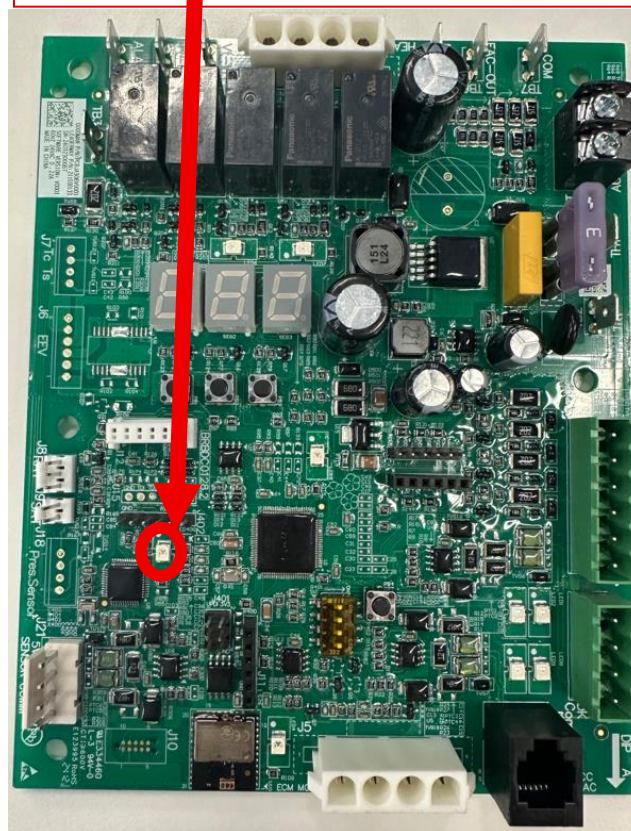
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Non-A2L Furnace Integration Kit (PCBCM303V001) RED Status LED



(PCBJA306V0001) RED Status LED



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2. Determine if the control **board** is displaying a fault. Faults requiring additional troubleshooting will start with 2, 3, or 4 quick flashes, followed by a 5-second delay and then will repeat the same flash pattern.
 - a. Other flash codes (slow flash, rapid flash, or LED continuously on) do not require control **board** or sensor troubleshooting as they indicate normal operation of the RDS control board and sensor. In those cases, system troubleshooting elsewhere may be required if the unit is still not operating properly.

Use the table below to help troubleshoot any fault (2, 3 or 4 flash fault) of the RDS board and sensor.

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RED LED STATUS

● (RED LED ON) ○ (RED LED OFF) * (RED LED FAST FLASH)

RED LED Flashing Pattern	MODE	Recommended actions
<p>Slow LED flashing pattern (2 seconds on and 2 seconds off)</p> <p>●→○→●→○→●→○</p>	Normal Operation	No action needed. The control system is working properly.
<p>Fast LED Flashing Pattern</p> <p>⚡→⚡→⚡→⚡→⚡→⚡</p>	R32 Leak Alarm	R32 refrigerant is currently being detected. The control board and sensor are working properly. Identify where the leak is coming from and address the leak.
<p>LED on continuously</p> <p>●</p>	Delay Mode	After any alarm or fault has cleared, the system will remain in R32 mitigation Delay Mode for 5 minutes and then return to normal operation. Wait until the control board returns to normal operation (LED Flashing Pattern will be SLOW - 2 seconds on and 2 seconds off). Check HVAC performance (Cooling and Heating Modes). Check system pressures and lines for any leaks. Re-Check HVAC performance after addressing any issues.
<p>LED will flash 2 times and then be off for 5 seconds before repeating the pattern</p> <p>⚡→⚡→○→⚡→⚡→○</p>	Control Board Internal Fault	<p>The control board has detected an issue with the R32 detection system</p> <ol style="list-style-type: none"> 1) Unplug and plug the R32 sensor back in. Cycle power to the system and wait 2 minutes. 2) If the control board is in Normal Operation (Slow Flash Pattern) or Delay Mode (LED continuously on), the issue was resolved. If not, continue with diagnostics. 3) If the control board still displays "Control Board Internal Fault" (2 flash pattern), Replace the control board.
<p>LED will flash 3 times and then be off for 5 seconds before repeating the pattern</p> <p>⚡→⚡→⚡→○→⚡→⚡→⚡→○</p>	R32 Sensor Communication Fault	<p>The control board does not have communications with the R32 sensor</p> <ol style="list-style-type: none"> 1) Unplug and plug the R32 sensor back in. Cycle power to the system and wait 2 minutes. 2) If the control board is in Normal Operation (Slow Flash Pattern) or Delay Mode (LED continuously on), the issue was resolved. If not, continue with diagnostics. 3) If the control board still displays "R32 Sensor Communication Fault" (3 flash pattern), Replace the sensor. <p>Note: If the sensor was already replaced, and the control board still reports the 3-flash pattern, Replace the control board.</p>
<p>LED will flash 4 times and then be off for 5 seconds before repeating the pattern</p> <p>⚡→⚡→⚡→⚡→○→⚡→⚡→⚡→⚡→○</p>	R32 Sensor Fault	<p>The R32 Sensor has reported an internal issue</p> <ol style="list-style-type: none"> 1) Unplug and plug the R32 sensor back in. Cycle power to the system and wait 2 minutes. 2) If the control board is in Normal Operation (Slow Flash Pattern) or Delay Mode (LED continuously on), the issue was resolved. If not, continue with diagnostics 3) If the control board still displays "R32 Sensor Fault" (4 flash pattern), Replace the sensor.

If you have technical questions, please call 1-855-DAIKIN1, or e-mail

TechnicalServicesDaikin@daikincomfort.com.

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