

## Residential Technical Services: Service Tips Letter

Letter: STR-008-25

Date: August 20, 2025

To: S1 HVAC Branch and Distributor Principal, Sales Manager, Service Manager, Parts Manager, Warranty Manager, Training Manager, Delegated Administrator.  
Technical Services, Parts/S1, Account Representatives, Marketing, Sales, Warranty teams.

Subject: **Refrigerant Detection System (RDS) Test header change**

Product/s: CTF, CTM, CTU, CXF, JHE, JSE, PC3E, S1-2AC06700124

Most indoor coil models, cooling only package units and all JHE air handling units come with a factory installed refrigerant detection system (RDS). The RDS has a refrigerant sensor input, room thermostat inputs, equipment outputs, error retrieval button, Red LED, low voltage fuse, and jumper pins used to initiate a TEST sequence.

Recently, a running change was made to the RDS. The first generation RDS had a 3-pin test header. Pin 1 is NC, 2 is Com, and 3 is Test. The NC pin has no connection to any circuit on the RDS control; it is a dummy terminal for storage of the shunt jumper. **With the shunt jumper between pins 1 & 2 (NC and Com) or missing, the RDS will operate in Normal Condition.**

The factory installed shunt jumper is placed by us between pins 2 & 3 so the RDS will be in TEST mode during power up. At completion of our end of line run test we move the jumper to pins 1 & 2. We have had reports where the jumper was missing, **If the jumper is missing, the RDS will operate in Normal Condition.** To place the RDS in test mode, simply short Pin 2 and 3 (Test and Com). Once the short is removed, the RDS will go back into normal operation mode.

A product enhancement to eliminate the shunt jumper has been made, we have changed to a 2-pin header. To place the RDS in test mode, short the pins (Test) together. Once the short is removed, the RDS will go back into normal operation mode. There was also an audible (buzzer) alarm added that sounds during mitigation mode (refrigerant leak mode) and will be silent when in normal operation.

If you have any questions regarding this, feel free to call Technical Services at 1-877-874-7378 and speak with a technical service representative or contact your Regional Technical Service Manager.

Casey McConnaughy

Regional Technical Service Manager

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