

To: Residential Distributors and Dealers
From: Technical Support
Date: December 07, 2011
Re: Flame Sensor Maintenance

Although flame sensors do not typically require frequent maintenance, certain environmental conditions can lead to the development of a coating on flame sensors that will interfere with their function.

Where this condition exists, it may be necessary to perform regular, scheduled maintenance on the furnace including cleaning of the flame sensor. Failure as a result of coating of a flame sensor is not a result of a defect and is not covered by the warranty of the furnace.

When performing a fall furnace PM or service call, cleaning of the flame sensor should be part of the schedule maintenance.

Over the course of a heating season, the byproduct of gas burning and hitting the flame sensor can produce a white chalky film on the flame sensor. This film will impede the micro amp signal receive to the board via the furnace ground.

A typical normal micro amp signal is 2-4 micro amps and can be measured with with a multi-meter using the micro amps scale. All Nordyne furnace boards have a yellow LED that will indicate if the micro amp signal is weak. If the signal is .5-0 micro amps the LED will be off, if the micro amp signal is between .5-1.0 the yellow LED will be flash and if the micro amp signal is greater than 1.0 the yellow LED will be on.

To clean the flame sensor, turn off the furnace, disconnect the red wire from the flame sensor, loosen and remove the screw holding the flame sensor to the burner sensor. Using a piece of steel wool or small wire brush clean the metal rod of the flame sensor, reinstall the flame sensor, connect the red wire to the flame sensor and reapply power the furnace. Check and verify the micro amp signal on the flame sensor, it should read greater than 1 micro amp.

If you have any questions please call **1-800-422-4328**

Thank You
NORDYNE Technical Service

CONFIDENTIALITY POLICY: NORDYNE Bulletins are not for public display, web posting, or dissemination to non-NORDYNE partners. NORDYNE distributors may post the bulletin ONLY behind a secure fire wall that requires password access, and where the folder cannot be crawled by web search engines.