



Ignition Module Service Bulletin

SEPTEMBER 1997

600 /6000/6100 SERIES

DSI Ignition Module Troubleshooting Procedure

The following guideline has been prepared to assist in correcting ignition problems with DSI Ignition modules on Norcold 600/6000/6100 series models.

1. Verify all electrical connections to the Power Supply board and to the spark electrode.
2. Verify that the gas orifice is properly installed and operating correctly. **WARNING: DO NOT ATTEMPT TO CLEAN OR MODIFY THE ORIFICE OPENING WITH A SHARP OBJECT. A DAMAGED ORIFICE CAN LEAD TO HAZARDOUS CONDITIONS AND POSSIBLE INJURY.**
3. Verify that the gas pressure is 11 ± 0.5 inches of water column to the refrigerator. (Higher pressure tends to lift the flame off of the burner and weakens the flame signal back to the module.)
4. Verify that the electrode and the burner are free of dirt and contamination.
Contamination can be removed with the use of steel wool or a wire brush.
After cleaning be sure to reposition the electrode.
5. Verify that the tip of the electrode is positioned $3/16$ of an inch above the burner.
(Hint: a $3/16$ " drill bit can be used to gauge the distance between the burner and the electrode.) Positioning of the electrode closer to the top of the burner can weaken the flame signal to the module resulting in intermittent operation.
6. When switching to the GAS mode, if the module fails to spark, remove the electrode and verify continuity. If the electrode is bad, replace the electrode otherwise replace the module.
7. If the module sparks but fails to light the burner, verify if the gas valve is operating. If the module switches power to the gas valve as it sparks but the gas valve fails to operate, disregard the following steps and replace the gas valve.
8. If the module fails to switch power to the gas valve as it sparks, disregard the following steps and replace the module.
9. If the burner lights the flame but the module continues to spark, disregard the following steps and replace the module.
10. If the burner lights but the flame goes out after 10 seconds (as the module goes into the CHECK LIGHT mode), the module is apparently having trouble sensing the flame.
Re-verify steps 1-5 above with particular emphasis on the positioning of the electrode.
If the module continues to work intermittently, replace the module.
11. If you have any questions concerning this procedure contact **Norcold Customer Service at 1-800-543-1219** for additional help.

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