



Service Bulletin

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Bulletin 2003-47-ABDE

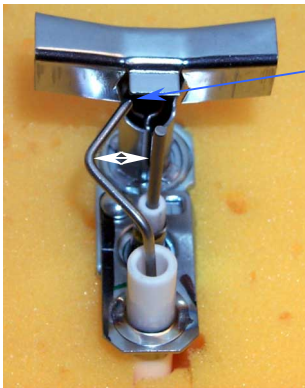
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Date: 11/04/2003

SUBJECT: Electrode Positioning in Invensys Pilot Assemblies

This bulletin supercedes Bulletin 2001-45-ABDE, Electrode Gap in Electronic Pilot Assemblies.

Incorrect electrode position on electronic pilot assemblies in Dean Decathlon (D50, D60, D80) fryers can cause intermittent problems in the ignition circuit. If the customer complains that the fryer takes too long in melt-cycle, or intermittently loses temperature during operation, the electrode position should be checked and properly adjusted.



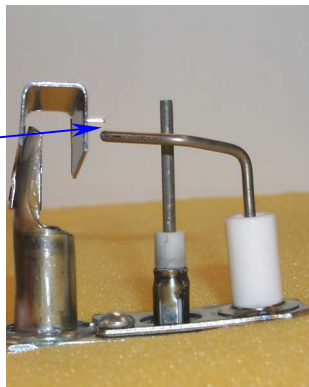
The electrode tip is properly positioned just under the pilot hood deflector corner. (Note orientation of electrode in relation to deflector corner.)

Maintain maximum obtainable distance (white arrows) between electrode and flame sensor when positioning electrode tip with pilot hood.



Once in the proper position, adjust electrode gap to 1/8" between electrode tip and the pilot hood deflector.

DO NOT EXCEED 1/8" GAP ± 1/64". THE GAP AND ELECTRODE-TIP POSITION ARE CRUCIAL FOR PROPER OPERATION.



After the electrode is positioned and properly adjusted, ensure the flame completely engulfs the flame sensor at all times during operation. Check the pilot flame with all frypots heating to ensure there is no loss of pilot flame.

The electrode position in relation to the pilot hood deflector is crucial to accurate ignition. If the electrode is out of adjustment, the spark current will seek an alternate path to the flame-sense rod, causing ignition circuit failure.