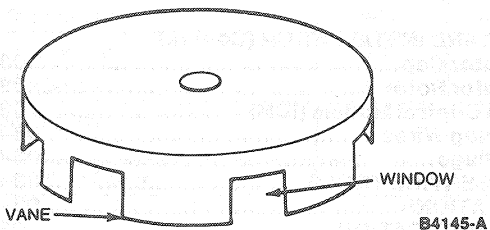


OPERATION (Continued)

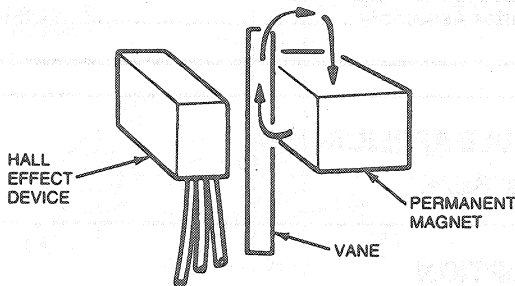
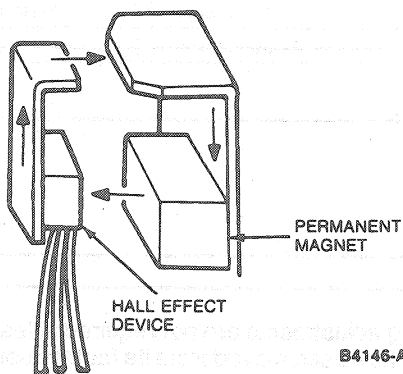
A rotary vane cup, made of ferrous metal, is used to trigger the signal off and on.



As the vane passes through this opening, the flux lines are shunted through the vane and back to the magnet.

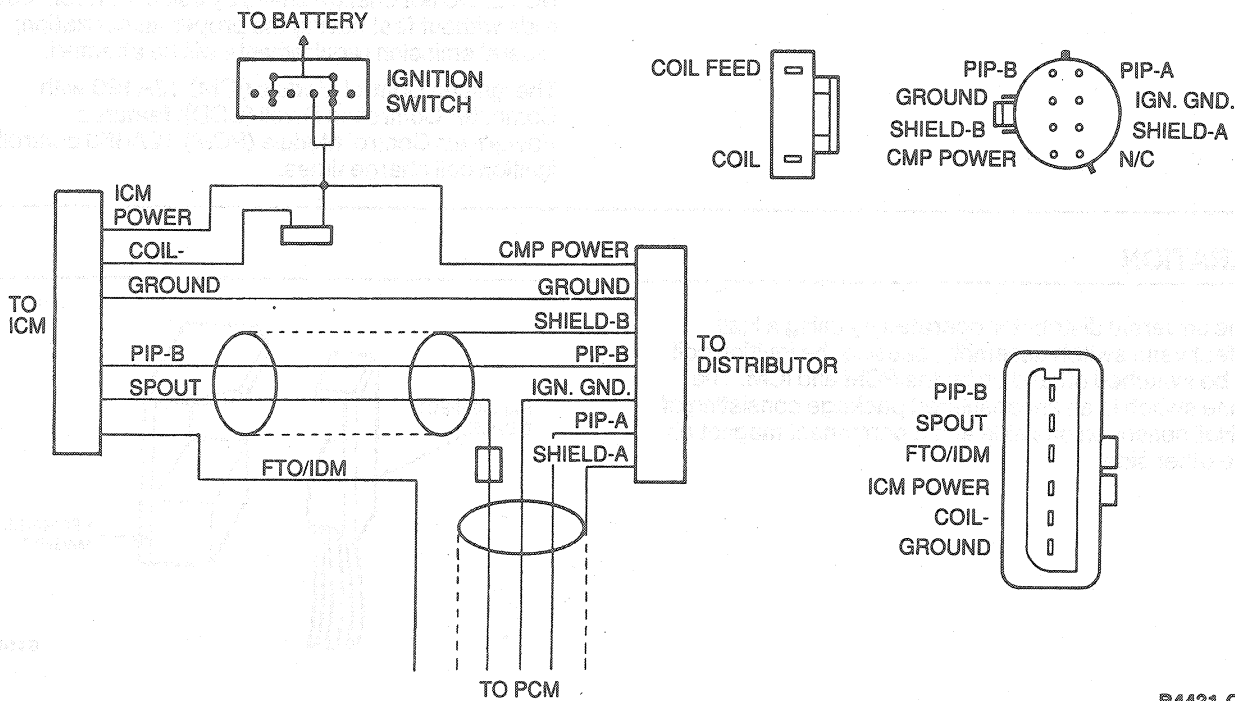
During this time, a voltage is produced as the vane passes through the opening. When the vane clears the opening, the window edge causes the signal to go to zero volts. The signal is then used by the PCM for crankshaft position sensing and the computation of the desired spark advance based on engine demand and calibration. The conditioned spark advance and voltage distribution is accomplished through a conventional rotor, cap and ignition wires.

When the window of the vane cup is between the magnet and the Hall effect device, a magnetic flux field is completed from the magnet through the Hall effect device and back to the magnet.



Distributor Ignition (DI) System and Closed Bowl Distributor

3.8L Engines



B4431-C