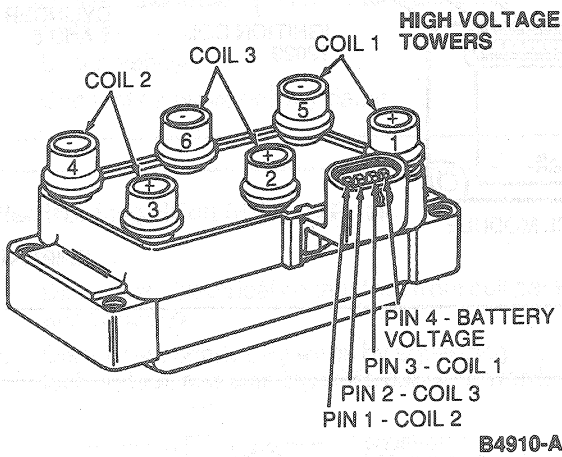


DESCRIPTION AND OPERATION (Continued)

Ignition Coil Pack

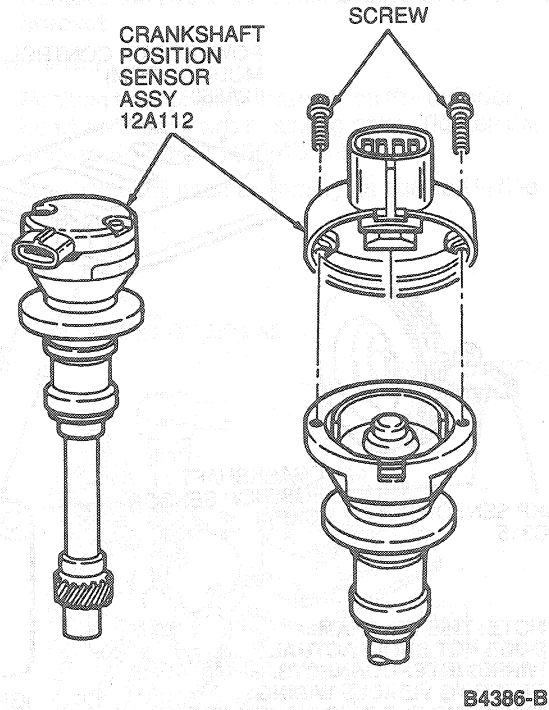
The coil pack is mounted on the rear of the LH cylinder head. The ignition coil pack contains three separate ignition coils which are controlled by the ignition control module (ICM) through three coil leads. Each ignition coil fires two spark plugs simultaneously; one plug on the compression stroke and one on the exhaust stroke. The spark plug fired on the exhaust stroke uses very little of the ignition coil's stored energy. The majority of the energy is used by the spark plug on the compression stroke. Since these two spark plugs are connected in series, the firing voltage of one plug will be negative with respect to ground, while the voltage of the other will be positive with respect to ground. Refer to the Powertrain Control/Emissions Diagnosis Manual¹ for additional information on spark plug polarity.



Camshaft Position Sensor (CMP)

The camshaft position sensor is a single Hall effect magnetic switch, activated by a single vane which is driven by the camshaft. This sensor provides cylinder identification (CID) information. The electronic ignition (EI) uses CID for coil fire sequencing and is also used by the powertrain control module (PCM) for fuel synchronization.

DESCRIPTION AND OPERATION (Continued)



¹ Can be purchased as a separate item.