

IGNITION SYSTEM

GENERAL (Figures 7-7 or 7-8)

The vehicle is provided with a breakerless inductive-discharge ignition system. The system has both a primary and secondary circuit. The primary circuit consists of the battery, ignition switch, primary coil winding, computerized ignition timer and associated wiring. The secondary circuit consists of the secondary coil, spark plugs and associated wiring.

The computerized ignition system contains three assemblies – the computerized ignition module, vacuum-operated electric switch (V.O.E.S.) and the rotor and cam position sensor.

The ignition module is mounted to the vehicle frame under a protective cover; it is located to the rear of the battery on the

left side. The ignition module has two functions. First, it computes the spark advance for proper ignition timing. Second, it opens and closes the low-voltage circuits between the battery and ignition coil to produce high-voltage discharge to the spark plugs.

The vacuum-operated electric switch (V.O.E.S.) is attached to the top center engine mounting bracket above the intake manifold. The V.O.E.S. senses intake passage vacuum through a carburetor hose connection. The switch is open during acceleration and high engine load conditions (low vacuum) and is closed during deceleration and low engine load conditions (high vacuum). The ignition module is programmed with two spark advance curves to meet varying engine loads.

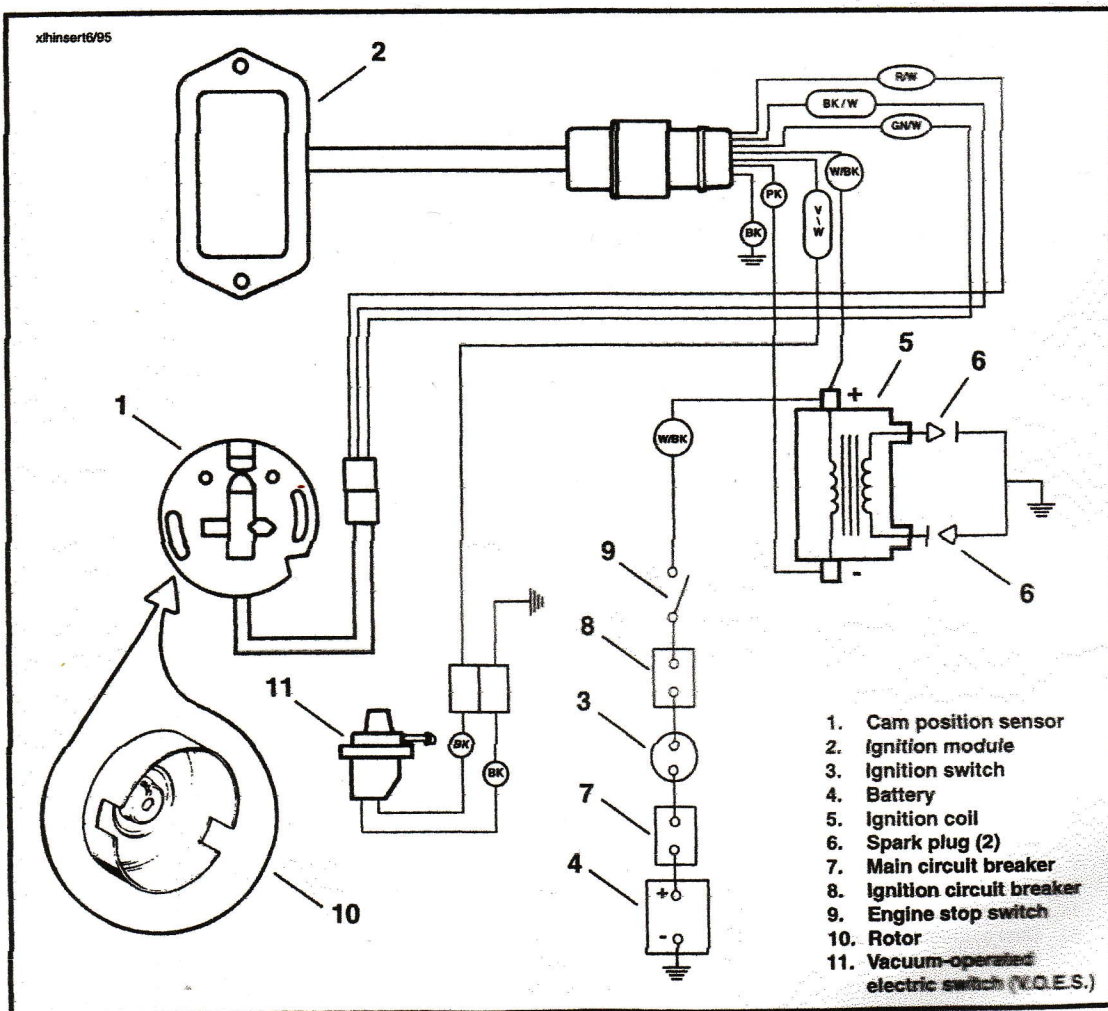


Figure 7-7. Ignition System Circuit (Simplified)