

Engine Ignition

The ignition system consists of the:

- Crankshaft Position (CKP) sensor.
- ignition coil.
- spark plug wire.
- spark plug.

The ignition system is:

- an electronic distributorless ignition system controlled by an electronic engine control integrated into the PCM.
- set at 10 degrees before Top Dead Center (TDC) for base timing, and is not adjustable.

The **CKP** sensor:

- is a variable reluctance sensor.
- senses a missing tooth on the crankshaft damper pulse ring.
- generates a crankshaft position signal which is sent to the PCM. The PCM counts this signal for engine rpm.

The ignition coil:

- changes low voltage pulses from the PCM to high voltage pulses.
- has 3 transformers.
- fires 2 spark plugs simultaneously.

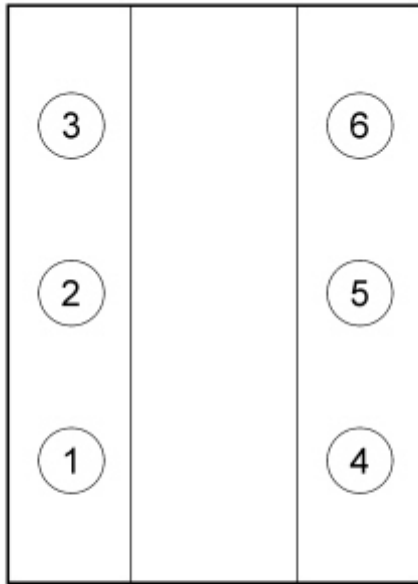
Spark plug wires carry high voltage pulses from the ignition coil to the spark plugs.

The spark plugs:

- change high voltage pulses to spark at the gap, which ignites the fuel and air mixture.

The firing order is: 1-4-2-5-3-6.

Coil Terminal-to-Cylinder Relationship



A0049589