

# IGNITION SYSTEM SYSTEM COMPONENTS

Ignition system consists of power source coil, CKP sensor, CDI unit, ignition coil and engine stop switch.

## FUNCTION AND FAILURE SYMPTOMS

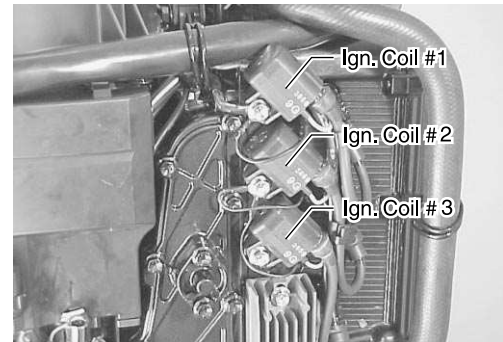
### IGNITION COIL

#### Function

There is an independent coil for each cylinder.  
Voltage from the CDI unit is greatly increased to produce the power needed for a spark at the plug.

#### Failure symptoms

A failed coil will produce no spark at that particular cylinder.  
Starting will be difficult and idling / acceleration will be poor.



### POWER SOURCE COIL

#### Function

This coil provides the power source for the engine control system.

#### Failure symptoms

The ignition and caution systems will not function.



### CKP (Crankshaft position) SENSOR

#### Function

There are two (2) CKP sensor installed below the flywheel rotor.  
When the reluctor bar on the flywheel passes the sensors, a signal (voltage pulse) is generated and sent to CDI unit.  
This is the fundamental signal used to judge the engine speed and crankshaft angle.  
CKP sensor sends basic signal for determining ignition timing to CDI unit.

#### Failure symptoms

When No.1 CKP sensor is NG:

- Spark on No.2 and No.3 cylinders only.
- Ignition timing fixed at BTDC5°

When No.2 CKP sensor is NG:

- Spark on No.1 cylinder only. (Less than 1000 r/min)
- Spark on No.1 and No.2 cylinders only. (1000 r/min or over)
- Ignition timing fixed at BTDC5°

