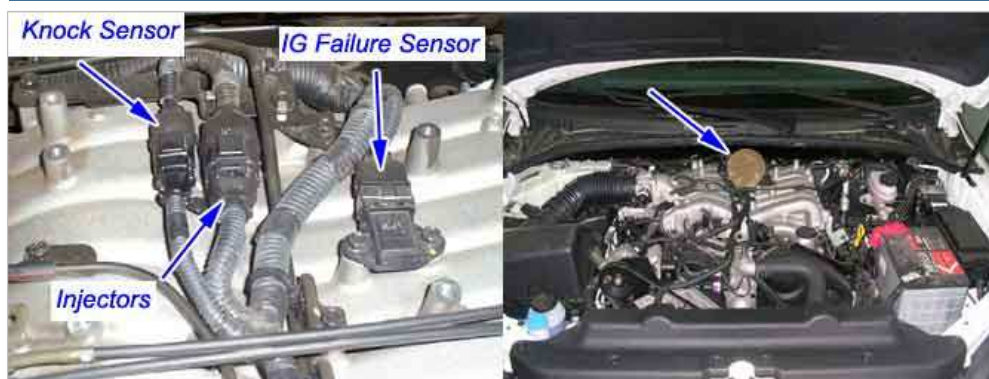


### Component Location



### Troubleshooting Hints

#### Related Items

1. Open or short in power supply circuit
2. Open or short in ground circuit
3. Open or short in signal circuit
4. Contact resistance in connections
5. Defective Ignition Failure Sensor

#### Fault Symptoms

1. Engine no or hard to start.

### DTC Detecting Condition

DTC Strategy	Enable Condition	Threshold value	Diagnosis time
Current through ignition coil is monitored	Engine speed < 4000rpm	No current at the 3 ignition coil group(during 32 ignitions)	Continuous

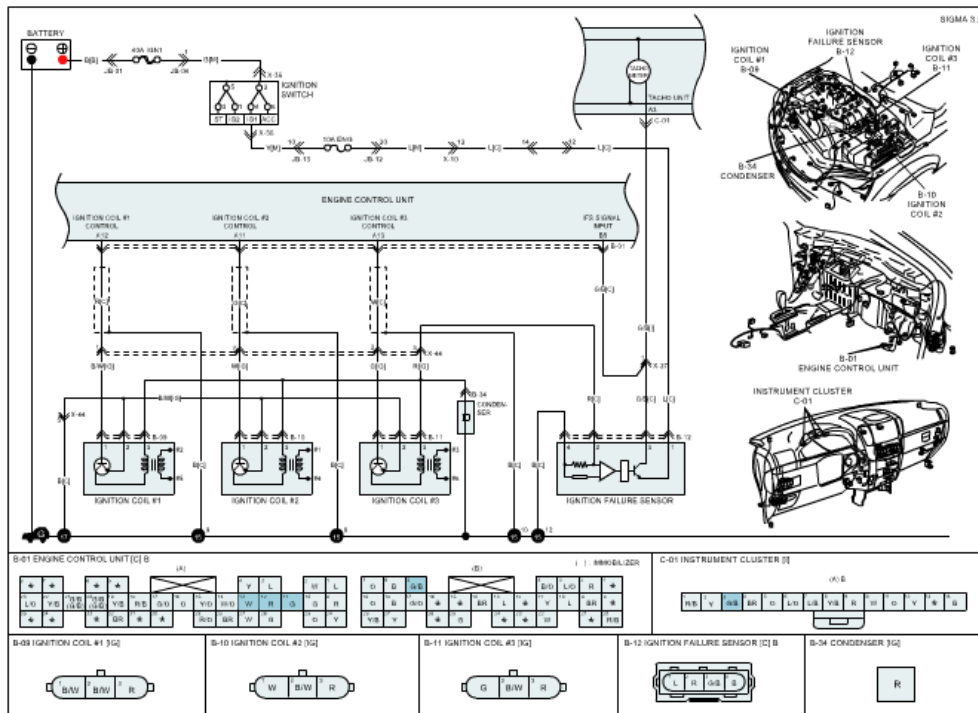
### Description

Ignition failure sensor is used to check whether the spark ignition is occurred correctly or not and also used to tachometer drive. The sensor monitors the voltage difference between a resistance which is on the battery circuit for ignition coil. When the ignition coil works properly, the electric current through the resistance is detected as voltage drop. This is confirmed for every ignition event with the crankshaft sensor and the camshaft sensor. If ECM detects sensor's malfunction, no ignition is possible, so the engine would not start. If there is no ignition signal for predetermined cycle for one or two ignition coils, it is regarded as the ignition coil failure.

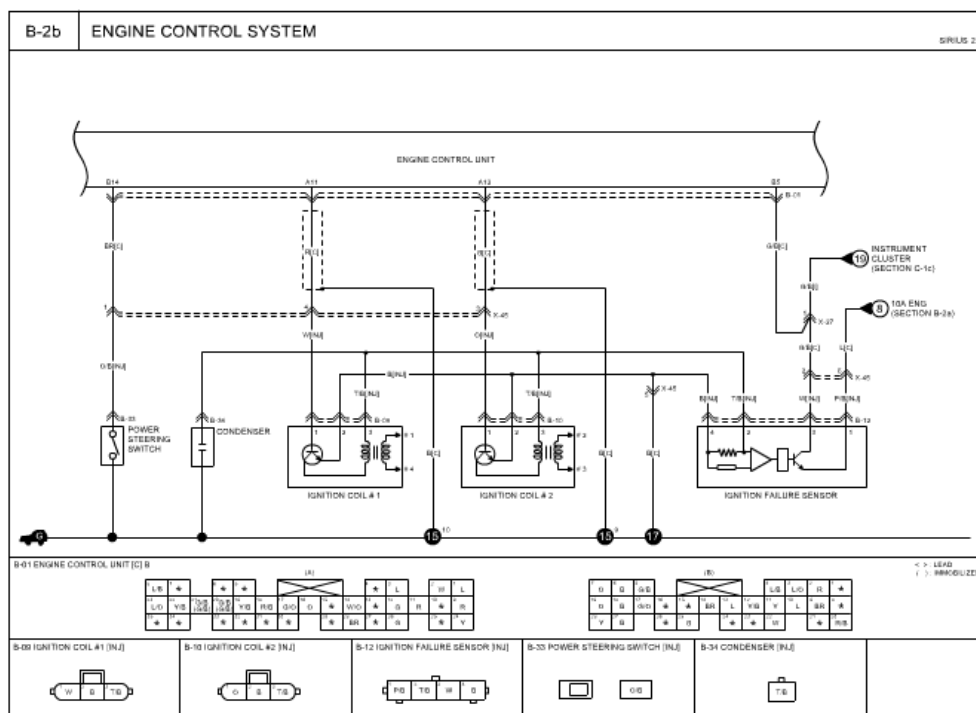
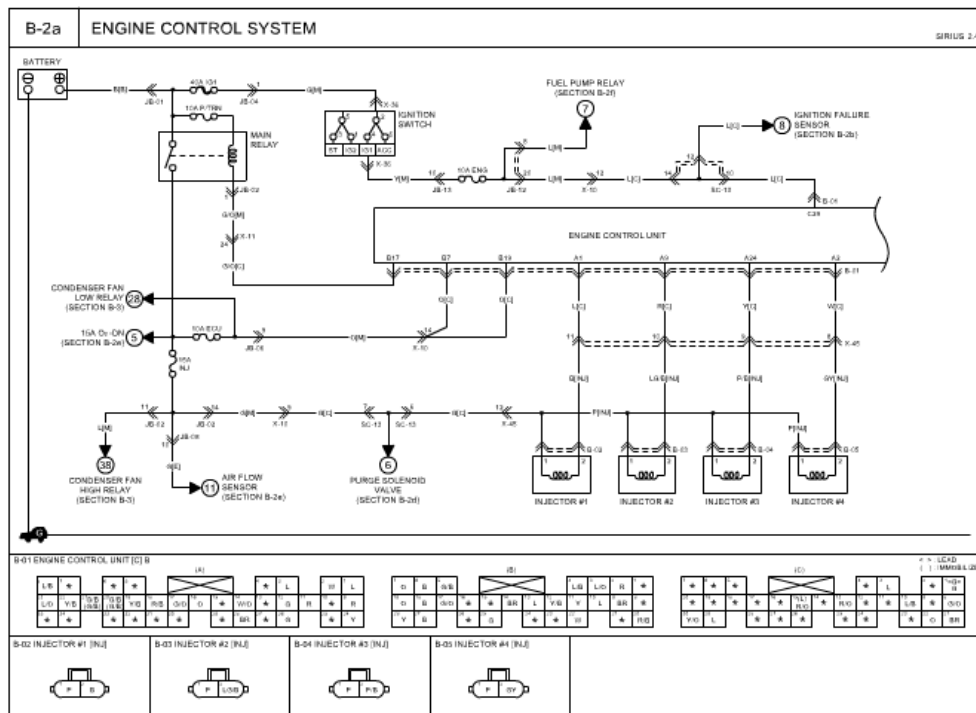
Check the following conditions when the DTC is set:

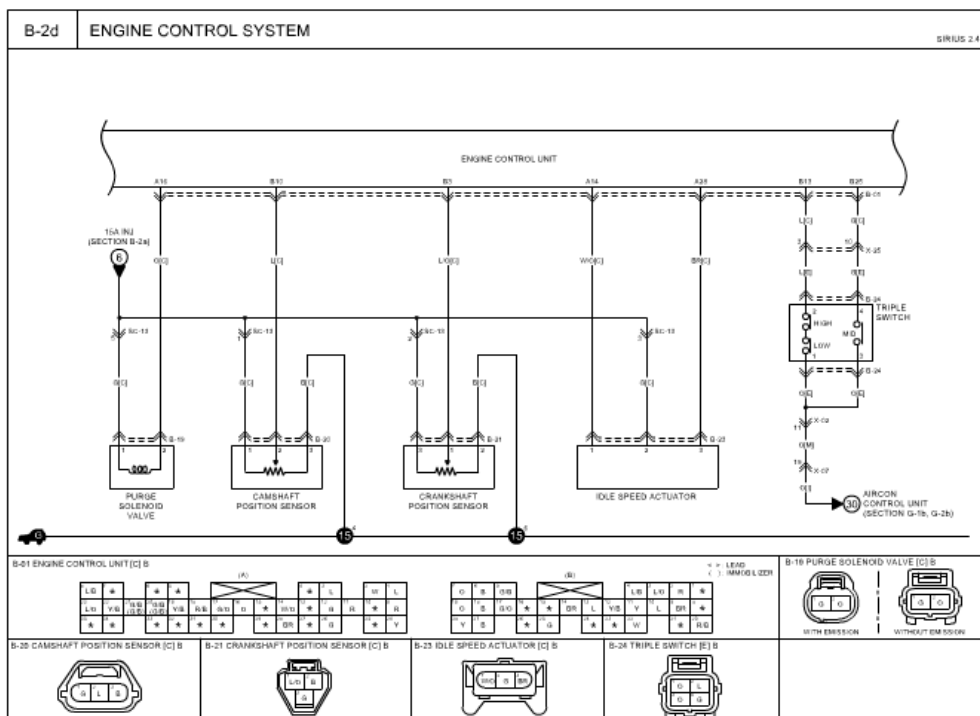
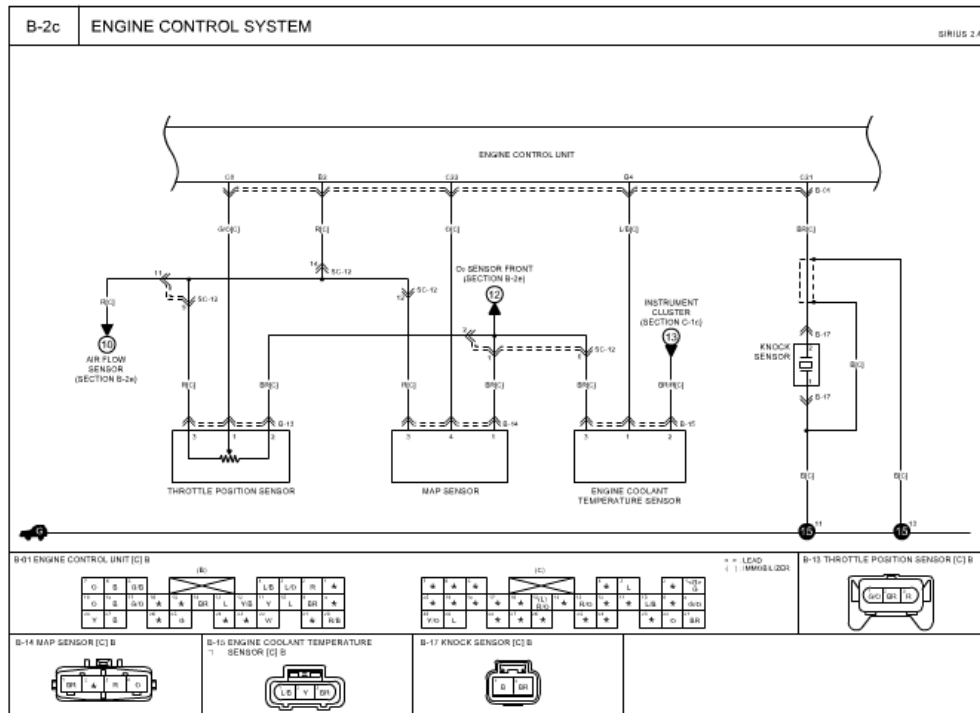
Open or short in power supply circuit, Open or short in ground circuit, Open or short in signal circuit, Contact resistance in connectors or Defective Ignition Failure Sensor.

### Schematic Diagram



# G 2.4 DOHC > Engine Leded All > P0320(General) Ignition Failure Sensor (IFS) Circuit Malfunction - Open or Short > General Description





G 2.4 DOHC > Engine Leaded All > P0320(General) Ignition Failure Sensor (IFS) Circuit Malfunction - Open or Short > General Description

