

CATERPILLAR**Service Information System**

Shutdown SIS

Previous Screen

← Product: TRUCK ENGINE
Model: 3406E TRUCK ENGINE 2WS00001-UP
Configuration: 3406E Truck Engine 2WS00001-UP

Troubleshooting

3406E, C-10, C-12, C-15, C-16 and C-18 On-highway Engines

Media Number -REN2238-16

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K01907625

Engine Speed/Timing Sensor Circuit - Test

SMCS - 1912-038

System Operation Description:

Use this procedure under the following situation:

- There is an active diagnostic code or an easily repeated diagnostic code that is associated with either the primary engine speed/timing sensor or the secondary engine speed/timing sensor.
- You have been directed to this test from Troubleshooting, "Troubleshooting without a Diagnostic Code".

The following background information is related to this procedure:

The engine uses two engine speed/timing sensors. One sensor picks up the camshaft gear and the other sensor picks up the crankshaft gear. Both of the engine speed/timing sensors detect the reference for engine speed and timing from a unique pattern on the gear. The ECM counts the time between pulses that is created by the sensor as the gear rotates in order to determine rpm.

Under normal operation, the secondary engine speed/timing sensor is used to determine timing for starting purposes. The secondary engine speed/timing sensor is used to determine when the piston in the No. 1 Cylinder is at the top of the compression stroke. When the timing has been established, the primary engine speed/timing sensor is then used to determine engine speed.

After locating the No. 1 cylinder, the ECM triggers each injector in the correct firing order and at the correct unit injector timing. The actual timing and duration of each injection is based on engine rpm and load. If the engine is running and the signal from the primary engine speed/timing sensor is lost, a slight change in engine performance will be noticed when the ECM performs the changeover to the secondary engine speed/timing sensor. Loss of the signal from the secondary engine speed/timing sensor during engine operation will not result in any noticeable change in engine performance. However, if the signal from the secondary engine speed/timing sensor is not present during start-up the following conditions may exist:

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