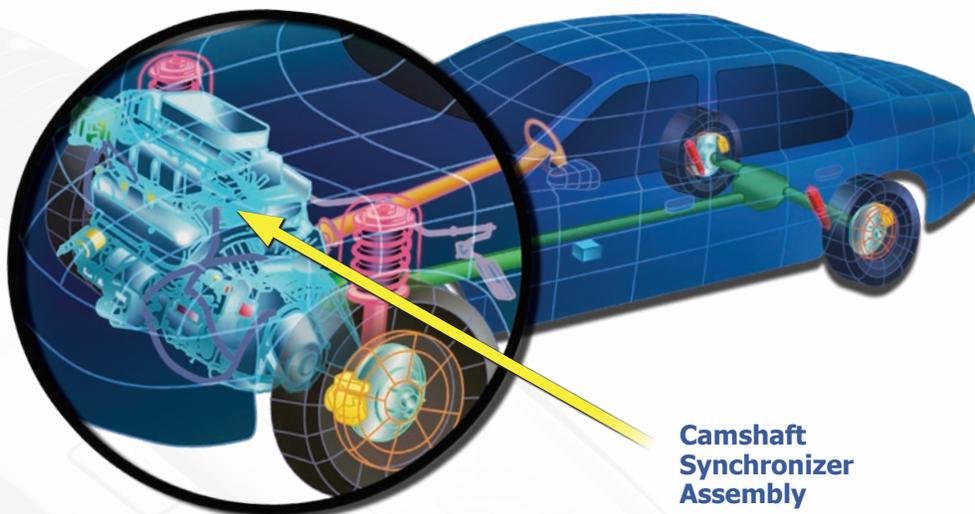


# « JUST THE FACTS »

## Camshaft Synchronizer Assemblies



**Camshaft Synchronizer Assembly**

### What does a Camshaft Synchronizer Assembly do?

The Camshaft Synchronizer Assembly consists of a Camshaft Position Sensor mounted on an Oil Pump Intermediate Shaft. The Synchronizer is driven off the camshaft, and sends the camshaft rotational position information to the Powertrain Control Module (PCM) to establish injector synchronization and coil firing sequence in DIS systems.

### Where is this sensor located?

The Camshaft Synchronizer Assembly is typically located in the cylinder block.

### Will a malfunctioning Camshaft Synchronizer Assembly illuminate the check engine light or affect vehicle operation?

Yes, a failing synchronizer can illuminate the MIL, and may cause vehicle stalling, loss of power, hesitation, surging, poor fuel economy, or a no-start condition.

### What are the common causes of failure?

Typically this assembly fails due to exposure to high heat. A faulty synchronizer bearing may cause a growling noise and lead to camshaft synchronizer failure.

### How to determine if these sensors are malfunctioning.

Look for RPM on a scan tool while cranking the engine. If the engine runs, a scope is the best diagnostic tool. Typical trouble codes: P1309, P0340 with MIL light on.

### What makes Standard® Camshaft Synchronizer Assemblies the best.

- Complete assembly includes the Camshaft Synchronizer and Camshaft Position Sensor - makes installation easier with a one-step process
- Initial exclusive offering includes 9 complete assemblies > 9.4 million VIO
- Standard® Camshaft Synchronizer Assemblies are brand new units; not reman, so there's no core to deal with
- Standard® includes a Synchro Positioning Tool which is required for proper installation to ensure that the fuel and ignition systems stay in time with the engine
- Matches the original for fit, form and function ensuring proper operation and performance
- 100% environmental, endurance and life cycle laboratory testing for Timing, Pulse Width and Signal Amplitude ensures consistent product reliability



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