

How it Works:

Variable Valve Timing (VVT) Solenoid

Most vehicles on the road today have a Variable Valve Timing (VVT) system. The VVT system is responsible for enhancing engine power, reducing emissions, and boosting fuel economy by controlling valve timing, valve duration, and valve lift. The VVT system engages when the vehicle has a significant amount of weight against the engine. For example: traveling uphill or accelerating quickly.

Although VVT systems vary by manufacturer, nearly all rely on the VVT solenoid to control the flow of oil to the VVT system and lubricate the VVT chain and gear assembly. A faulty VVT solenoid can cause the timing chain and gear to prematurely fail due to lack of lubrication and may even cause other engine components to fail. This can also happen due to a clogged/blocked VVT solenoid.

Signs of a faulty VVT solenoid:

- Check engine light
- Dirty engine oil
- Rough engine idle
- Reduced fuel economy

