

VVTL System

Co00A-01

OCV for VVTL Monitor Description

MONITOR SUMMARY

When the engine RPM is high, the variable valve timing and lift (VVTL) actuator advances shims under the high-lift cam followers using engine oil pressure. Switching to the high-lift cam increases the valve lift as well as the intake air volume and exhaust capacity. These changes increase the engine's power output. When the engine RPM is 6,200 rpm or more, the ECM increases the oil control valve (OCV) control signal duty-rate and it opens the oil passage to the VVTL actuator. The engine oil pressure powered actuator advances the cam follower shims and the valves begin using the high-lift cam.

The ECM senses the current flow to the OCV to determine the "actual" duty-rate of the control signal. If the duty-rate is outside the normal range, the ECM interprets this as a malfunction in the OCV. The ECM will illuminate the MIL and a DTC is set.

RELATED DTC

Previous code:

Related DTCs	P1690	OCV for VVTL circuit is open/shorted
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Extended code:

Related DTCs	P1010	OCV for VVTL circuit is open/shorted
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MODEL YEAR CHART

Model Year	See Page
2000 to 2003	Co-16