

VVTL System 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 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 VVTL oil pressure switch senses the engine oil pressure applied to the VVTL system and the ECM judges which cam (conventional cam or high-lift cam) is used based on the switch output. If the engine oil pressure applied to the VVTL system is high when the conventional cam is required by the ECM or if the pressure is low when the high-lift cam is required, the ECM will determine that there is a malfunction and set a DTC.

RELATED DTC

Previous code:

Related DTCs	P1692	Cam does not change to conventional cam
	P1693	Cam does not change to high-lift cam

Extended code:

Related DTCs	P1011	Cam does not change to conventional cam
	P1012	Cam does not change to high-lift cam

MODEL YEAR CHART

Model Year	See Page
2000 to 2003	Co-18