

DTC	FAULT DESCRIPTION	MONITORING CONDITIONS	OBD II	CK ENG	OTHER	DEFAULT ACTION	POSSIBLE CAUSES
P0430	Catalyst efficiency below threshold – B bank	Ambient (IATS) temperature > 20 °C (68 °F); engine at normal operating temperature; normal, varied driving for 3 minutes; then, constant steady throttle 50 – 60 mph (80 – 95 km/h), 1500 – 2300 rpm > 15 seconds; then, constant steady throttle 30 – 38 mph (50 – 60 km/h), 1100 – 1900 rpm > 15 seconds	Y	2	N	None	HO2S / O2S disconnected HO2S / O2S to ECM wiring fault HO2S heater to ECM wiring fault HO2S heater failure Upstream HO2S failure Downstream O2S failure Catalyst failure
P0442	EVAP (system) leak detected	Fuel tank level between 15% - 85% full; after start-up, run engine 7 minutes. With engine at normal operating temperature, drive vehicle 39 - 50 mph (62 - 80 km/h) 6> minutes	Y	2	N	When CK ENG MIL is activated (DTC flagged; second trip), ECM: – Inhibits adaptive fuel metering – Inhibits canister purge	Fuel cap off Fuel cap seal defective EVAP system leak (canister damage, pipework damage) EVAPP valve to ECM drive circuit open circuit, short circuit, high resistance EVAPP valve to engine purge pipe damaged / blocked / leaking EVAPP operating vacuum hose leak / blockage EVAPP valve failure
P0444	EVAPP valve circuit open circuit	Engine at normal operating temperature; vehicle stationary; brakes applied; gear "D"; idle > 10 seconds	Y	2	N	Refer to P0442 Default Action	EVAPP to ECM drive circuit open circuit or high resistance EVAPP failure
P0445	EVAPP valve circuit short circuit	Engine at normal operating temperature; vehicle stationary; brakes applied; gear "D"; idle > 10 seconds	Y	2	N	Refer to P0442 Default Action	EVAPP to ECM drive circuit short circuit to ground EVAPP failure
P0447	CCV (canister close valve) circuit open circuit	Ignition ON > 5 seconds (ECM CCV drive inactive – valve open)	Y	2	N	When CHECK ENGINE MIL is activated (DTC flagged; second trip), ECM: – Inhibits EVAP leak check monitoring – Inhibits adaptive fuel metering – Inhibits canister purge	CCV to ECM drive circuit open circuit, high resistance or short circuit to ground CCV failure