

Fuel Trim

Fu005-01

Fuel Trim Monitor Description

MONITOR SUMMARY

The engine control module (ECM) uses the air/fuel ratio (A/F) sensor (or front heated oxygen sensor where equipped) to optimize the air/fuel mixture in Closed-Loop fuel control. This control helps decrease exhaust emissions by providing the catalyst with a nearly stoichiometric mixture. Under Closed-Loop fuel control, fuel injection amounts that deviate from the ECM's estimated fuel amount will cause a change in the short-term fuel-trim compensation value. The long-term fuel-trim is adjusted when there are persistent deviations in the short-term fuel-trim values.

For the fuel-trim monitor, the ECM calculates the “smoothed fuel-trim learned-value”. This value is the combination of smoothed short-term fuel-trim (fuel feed back compensation value) and smoothed long-term fuel-trim values. When the smoothed fuel-trim learned-value exceeds the DTC threshold, the ECM interprets this as a fault in the fuel system and sets a DTC.

RELATED DTC

Related DTCs	P0171 (Bank 1)	Fuel trim is too LEAN
	P0174 (Bank 2)	
	P0172 (Bank 1)	Fuel trim is too RICH
	P0175 (Bank 2)	

MODEL YEAR CHART

Model Year	See Page
1996	Fu-5
1997	Fu-7
1998	Fu-9
1999	Fu-11
2000	Fu-12
2001	Fu-14
2002	Fu-16
2003 to 2004	Fu-18