

SECTION 03-04C Fuel Charging and Controls—3.8L

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VEHICLE APPLICATION

Taurus / Sable.

DESCRIPTION

The multiport fuel injection (MFI) system is classified as a multi-point, pulse time, speed density control, fuel injection system. Fuel is metered into each intake port in a sequential firing order. Injectors pulse to follow engine firing order in accordance with engine demand through fuel injectors (9F593) mounted on the cylinder heads.

WARNING: DO NOT SMOKE, CARRY LIGHTED TOBACCO, OR OPEN FLAME OF ANY TYPE WHEN WORKING ON OR NEAR ANY FUEL-RELATED COMPONENT. HIGHLY FLAMMABLE MIXTURES ARE ALWAYS PRESENT AND MAY BE IGNITED, RESULTING IN POSSIBLE PERSONAL INJURY.

An on-board vehicle powertrain control module (PCM) 12A650 accepts inputs from various engine sensors to compute the required fuel flow rate necessary to maintain a prescribed air / fuel ratio throughout the entire engine operational range. The PCM then outputs a command to the fuel injectors to meter the appropriate quantity of fuel.

The EEC-IV engine control system also determines and compensates for the age of the vehicle and its uniqueness. The system will automatically sense and compensate for changes in altitude (i.e. from sea level to mountains).

All engines use a closed-type positive crankcase ventilation (PCV) system and an exhaust emission system to control engine emissions within Government specifications.

To maintain the required exhaust emission levels, the fuel metering system must be kept in good operating condition and adjusted to specifications listed in the applicable Section of the Powertrain Control / Emissions Diagnosis Manual¹, the applicable Section of this Group, or on the Vehicle Emission Control Information (VECI) decal.

Additional engine performance checks are required to keep the exhaust emissions at the specified minimum pollutant level. Refer to the Pre-Delivery manual, Section 00-06, for these performance checks and recommended intervals.

Always refer to the Master Parts List for parts usage and interchangeability before replacing a throttle body (9E926) or a component part of a throttle body.

Fuel Metering Assembly Identification

The base part number of the fuel metering assembly is 9E926. The base part number on 3.8L engines is located on the boss near the throttle position sensor (9B989).

The "Unleaded Fuel Only" nomenclature must appear:

- Near the fuel filler opening.
- On the instrument cluster.

¹ Can be purchased as a separate item.