


DESCRIPTION AND OPERATION

Engine

 **CAUTION:** When repairing engines, all parts must be contamination free. If contamination/foreign material is present when repairing an engine, premature engine failure can occur.

NOTE: This section contains information, steps and procedures that may not be specific to your engine.

This section covers general procedures and diagnosis and testing of the engine system, except for exhaust emission control devices, which are covered in the [Powertrain Control/Emissions Diagnosis \(PC/ED\) manual](#).

The engine incorporates:

- a closed positive crankcase ventilation (PCV) system. For additional information, refer to Section 303-08.

- an exhaust emission control system. For additional information, refer to Section 303-08.
- an evaporative emission control system. For additional information, refer to Section 303-13.

Some engines incorporate a fail-safe cooling system. Refer to the appropriate section in Group 303 for the procedure.

The engine, fuel system, ignition system, emissions system and exhaust system all affect exhaust emission levels and must be maintained according to the maintenance schedule. Refer to the scheduled Maintenance Guide.

Correct engine identification is required to order parts. Refer to the appropriate section in Group 303 for the procedure.

For complete vehicle and engine identification codes, refer to Section 100-01.