

SECTION 03-12 Air Intake System

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VEHICLE APPLICATION

Taurus / Sable and Taurus SHO.

DESCRIPTION

The air cleaner and duct system provides clean air to the throttle body (9E926). Outside air enters from an opening in the fender through the engine air cleaner intake tube and duct (9A673) and then into the engine air cleaner (9600) where it is filtered through the air cleaner element. From the engine air cleaner assembly it travels through the engine air outlet tube (9B647) and into the throttle body. On 3.0/3.2L SHO, from the engine air cleaner it travels through the Mass Air Flow (MAF) sensor 12B579 to the engine air outlet tube and into the throttle body. The positive crankcase ventilation (PCV) system is supplied clean air from a fitting on the engine air outlet tube on the 3.0L and 3.8L engines. Air induction noise is effectively eliminated by means of a sealed and tuned resonator chamber located in the air cleaner cover assembly and a secondary tuned venturi section in the inlet tube on the 3.8L engine. 3.0L engines use a secondary resonator in the inlet tube in addition to the resonator in the air cleaner cover.

The PCV system on 3.0/3.2L SHO engines is supplied clean air from a hose off the throttle body (TB) 9E926 to the LH (front) camshaft cover. Refer to Section 03-01B.

REMOVAL AND INSTALLATION

Air Filter Element—Replacement

Refer to Section 00-03 for the Emissions Systems Maintenance Schedule for frequency of filter inspection/replacement.

Removal

- Loosen air cleaner outlet tube clamps at both ends and remove air cleaner outlet tube (9B659). On 3.0L, loosen clamp at throttle body only and leave air cleaner outlet tube connected to cover.
- On Taurus SHO and 3.0L, disconnect airflow sensor electrical connector.
- Release air cleaner upper cover clips, or remove bolts.
- Remove air cleaner cover. Remove filter element.

Inspection

Visually inspect the element and the air cleaner cover and tray for signs of dust or dirt leaking through holes in the filter or past the end seals. Place a light on the inside (clean side) of the filter and look through the filter at the light. Even the smallest hole is cause for replacement.

Also check the element for deformed seals or brittle spots that could fail under engine operation and cause a hole. Discoloration only, is not cause for replacement. Visually inspect a new element for possible damage in handling such as deformed seals or holes in paper.

Installation

- Clean inside surfaces of air cleaner body. Install filter element.
- Install air cleaner upper cover. Install bolts or fasten clips.