

1974-79 EXHAUST EMISSION SYSTEMS

Saab Thermostatic Air Cleaners

3-397

All Models

DESCRIPTION

A thermostatically-controlled air cleaner is used to regulate intake air preheating. This unit responds to ambient temperature. A thermostatic device is located in the cold air inlet duct and regulates an air door according to incoming temperature. A hot air duct from an exhaust manifold shroud provides heated air. This system allows more refined adjustments of fuel injection system, resulting in better combustion and lower emissions.

OPERATION

Below 43°F (8°C) only heated air will flow into the engine, as the thermostat will close off cold air entry. Above 64°F (18°C), only cold air will

enter. Between these temperatures, a blending of heated and cooled air will occur.

TESTING

- 1) Remove thermostat and place in a container of water. With water below 43°F (8°C), air door position should be such that only air from the heated duct will enter air cleaner.
- 2) Heat water slowly and observe door position. It should move from hot-air-only entry position to cold-air-only entry position as water is heated and approaches 64°F (18°C).