

## SAAB THERMOSTATIC AIR CLEANER

### 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 (13°F Turbo), only heated air will flow into the engine, as the thermostat will close off cold air entry. Above 64°F (45°F Turbo), only cold air will be admitted. Between these temperatures, cold and hot air will be blended for optimum fuel mixture.

### TESTING

**NOTE** — Thermostat on Turbo cannot be tested in water since operation temperature is below freezing.

- 1) A check of thermostat operation can be made by removing unit from vehicle and placing in a container of water.
- 2) With water below 43°F (8°C), air door position should be such that only air from the heated duct will enter air cleaner.

- 3) Heat water slowly and watch 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).

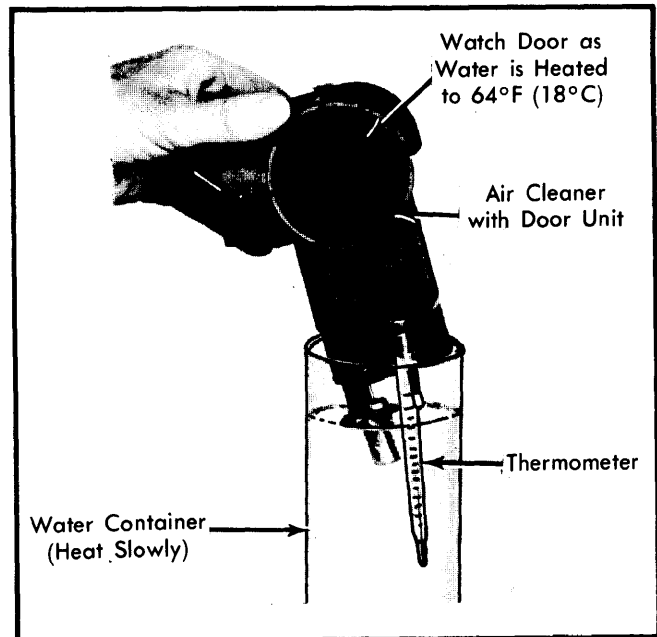


Fig. 1 Testing Thermostatic Air Cleaner Unit

## SAAB DASHPOT

### All Models (Except Turbo)

### DESCRIPTION & OPERATION

The dashpot is located on the throttle housing and acts to slowly return the throttle valve when it shuts. It is adjustable but cannot be serviced.

### TESTING

- 1) Warm engine to normal operating temperature. Connect tachometer and adjust idling speed to 875 RPM.
- 2) Raise engine speed to 3000 RPM and measure time between release of throttle and return to 875 RPM. Deceleration time should be 3-6 seconds.

### ADJUSTMENT

- 1) With engine at normal operating temperature, check ignition timing and fuel mixture. Rotate throttle lever and check that dashpot rod strikes stop at 2400-2600 RPM.

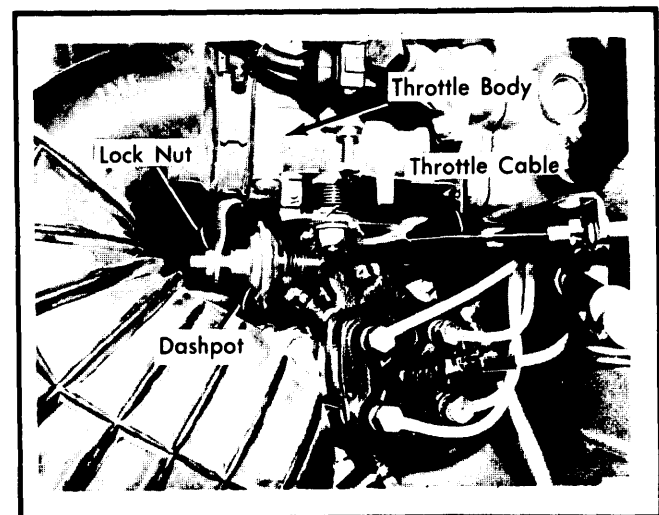


Fig. 1 Saab Dashpot