

Injectronics

TECHNICAL BULLETIN

VOLVO - VARIOUS

#T0034

Make: Volvo

Model: Various

Subject: Mass air flow sensor protection tip

Injectronics have found that various Volvo mass air flow sensors are often damaged due to faulty air box directional flaps. From mid 1980 on, LH Jetronic fuel injected Volvo's were equipped with a thermostat that controls the source of intake air during the warm up period. When cold, the thermostat opens a flap which in turn allows preheated air from the exhaust manifold stove to be directed through the air cleaner to the intake to assist engine warm up. The thermostat should close this flap soon after start up when the engine has warmed up and will direct the air from behind the grille toward the intake.

When the thermostat fails, hot air may be continuously supplied to the intake which would cause hot air to pass through the mass air flow sensor at all times. Constant exposure to this pre heated air can contribute to early failure of the mass air flow sensor.

To test the operation of the thermostat and air box flap, follow this procedure:

1. Remove the air cleaner housing.
2. Remove the shutter housing from the air cleaner.
3. Check the bushings and the mounting of the shutter.
4. Check the shutter position at the following temperatures:
 - a. 5 °c or less
 - b. Approx. 10°C
 - c. 16°C or more
5. Replace the thermostat if the shutter does not function as specified.
6. Reassemble and install the air cleaner, making sure the air cleaner housing and ducts are sealing properly.

