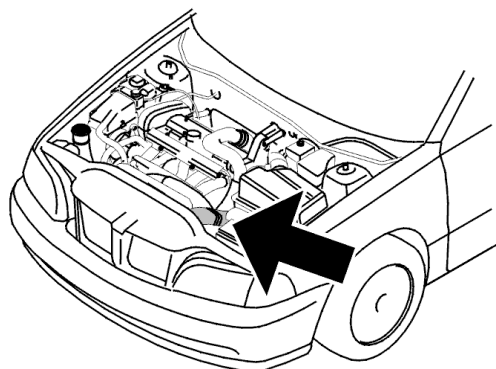


Replacing the throttle body (electronic throttle module)

Preparation



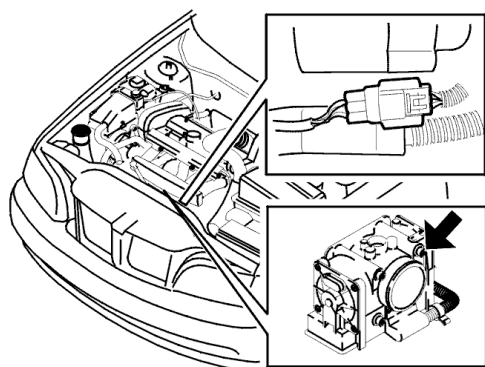
Remove

- the air intake between the front cover plate and the air cleaner (ACL) housing
- the battery negative lead. [Note when disconnecting/connecting the battery lead](#)

Disconnect the connectors from the pressure and temperature sensors on the charge air pipe to the throttle body (TB).

Release the hose clamps on the charge air pipe.

Remove the charge air pipe.



Removing the throttle body (TB)

- Remove the support bracket for the starter motor
- Disconnect the throttle body (TB) connector
- Remove the mounting screws from the throttle body (TB). Lift up the throttle body (TB). Clean the mating surfaces thoroughly.

Installing the throttle body (TB)

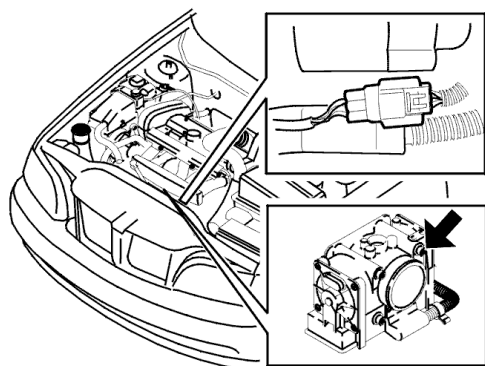
Install

- the bracket for the starter motor
 - a new throttle body (TB) with a new gasket.
Tighten to 17 Nm
- Connect the throttle body (TB) connector.

Clamp the cable in the bracket for the starter motor. Use a tie strap.

Install the charge air pipe.

Connect the connectors for the pressure and temperature sensors.



Install

- the intake manifold between the front cover plate and the air cleaner (ACL) housing
- the battery negative lead. [Note when disconnecting/connecting the battery lead](#)

Ordering software

Order software for S70/V70 according to [Order](#)

[SW](#) or for C70 according to [Order SW](#) .

Programming the control module

Program the new control module for the S70/V70 according to [Load SW](#) or for the C70 according to [Load SW](#) .

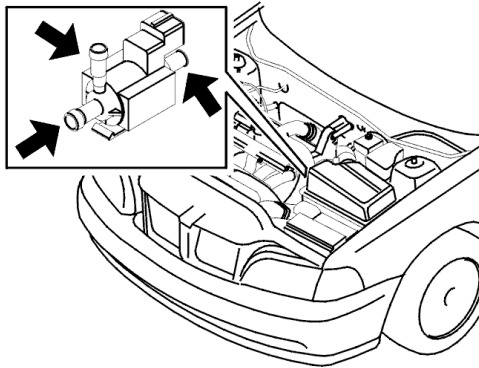
Finishing

Check that no diagnostic trouble codes have been stored during the repair.

Test drive the car. Check the function of the engine.

Replacing the turbocharger (TC) control valve

Removing the turbocharger (TC) control valve



Lift the valve away from the air cleaner (ACL) cover.

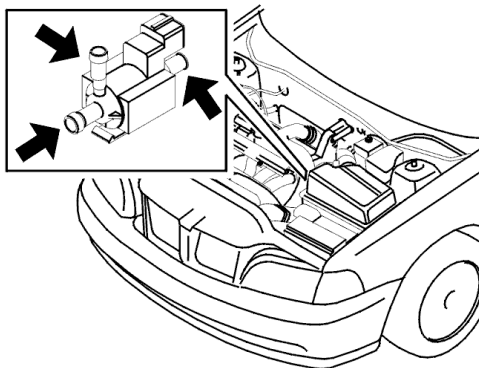
Remove the connector from the valve.

Mark up and pull off the hoses.

Installing the turbocharger (TC) control valve

Install

- the hoses according to the marking on the control valve
- the connector on the valve
- the valve on the air cleaner (ACL) cover.



Replacing lambda probes

Removal of lambda probes

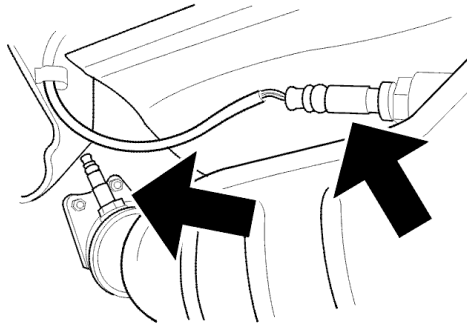
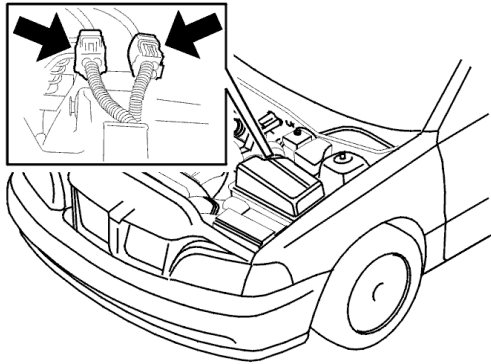
Jack up the car.

Remove the LH front wheel.

Uncover the wiring.

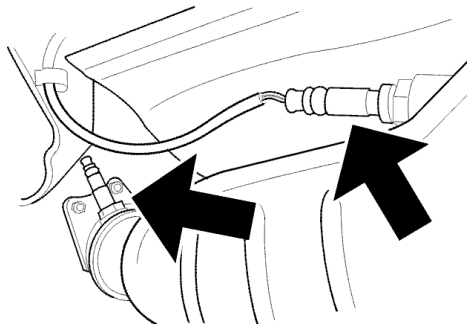
Disconnect the connectors.

Jack up the car.



Uncover the wiring.

Remove lambda probes using tool [999 5543](#).



Installation of lambda probes

Install lambda probes using tool [999 5543](#).

Tighten to 45 Nm.

Secure wiring.

Lower the car slightly.

Connect the connectors.

Secure wiring.

Install LH front wheel. Tighten to 110 Nm.

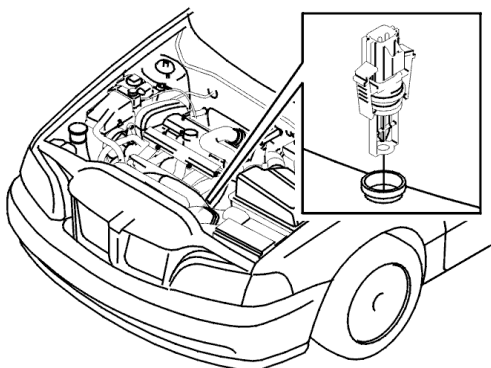
Lower the car.

Intake Air Temperature Sensor (IAT Sensor), replacing

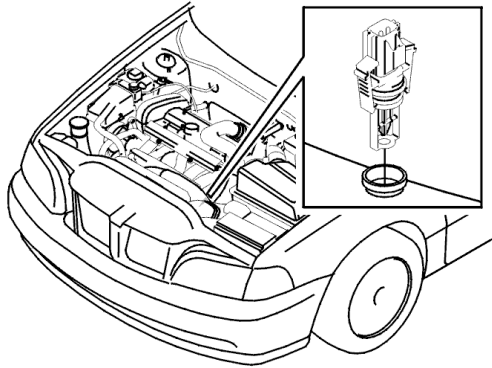
Replacing the temperature sensor

Removing the temperature sensor

- Disconnect the sensor connectors.
- Note! Do this only by hand.
- Remove the sensor from the intake manifold.



Installing the temperature sensor



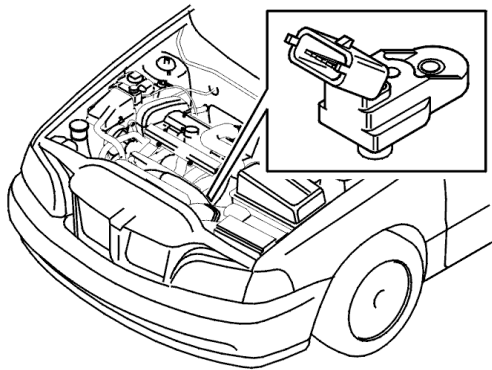
- Install a new sensor
- Connect the sensor connectors.

Manifold absolute pressure (MAP) sensor, replacing

Replacing the pressure sensor

Removing the charge air pressure sensor

- Disconnect the sensor connectors
- Remove the sensor from the intake manifold.



Installing the charge air pressure sensor

- Install a new sensor
- Connect the sensor connectors.

