

Intake manifold / gasket, replacing

Note! As the illustrations in this service information are used for different model years and / or models, some variation may occur. However, the essential information is always correct.

Replacing the intake manifold and gasket

Removing the intake manifold and gasket

Disconnect the battery negative lead. First read [Note when disconnecting/connecting the battery lead](#) .

Drain the fuel injection system. See [Draining the fuel system](#) .



Remove

- the control module box air baffle
- the cover plate over the connectors from the injectors
- the connectors for the sensors in the charge air pipe between the charge air cooler (CAC) and the throttle module.

Separate the throttle body (TB) connector.

Separate the charge air pipe at the hose / plastic pipe.

Remove the plastic charge air pipe.

Seal the openings.

Mark up and remove the vacuum hoses from the intake manifold.

Remove the oil filler cap.

Remove the cover over the ignition coils.

Remove the hose from the flame trap to the cam cover at the terminal in the cam cover.

Remove the mounting screws from the fuel rail.

Separate the fuel line quick-release connector.

Use tool [951 2666](#) .

Spray universal oil or similar around the injector nozzle at the terminal on the intake manifold.

Gently work the fuel rail and injector nozzles loose.



Remove

- the dipstick bracket



- the lower screws for the intake manifold a few turns.

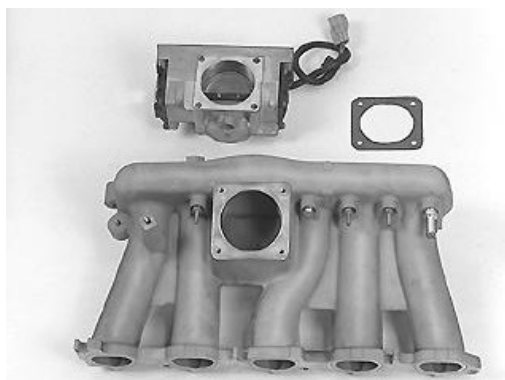
Remove

- the mounting screws in the upper row and the outer screws in the lower row
- the intake manifold by lifting it approximately 20 mm.

Allow the crankcase ventilation hose to run through the intake manifold without disconnecting it from the flame trap.

Transferring components when replacing the intake manifold

- Transfer the electronic throttle module. Use a new gasket. Tighten to 10 Nm.



Installing the intake manifold and gasket

Note! Ensure that the gasket faces are clean.

Install

- a new gasket held in position by the lower screws for the intake manifold. Do not forget the clamp for the fuel line at the screw in the lower row.
- the intake manifold. Do not forget the crankcase ventilation hose. The hose must be inserted up through the gap between the second and third ducts
- the three upper screws. Tighten all the screws (starting from the centre). Tighten to 20 Nm.

Finishing

Install

- the fuel rail.
Press together the quick-release connector. Use new screws. Tighten to 10 Nm
- the connectors for the injectors and the cover



plate

- the vacuum hoses according to the earlier markings
- the plastic charge air pipe
- the connectors for the sensors in the plastic charge air pipe
- the connectors to the throttle body (TB)
- the air baffle from the control module box at the engine cooling fan (FC)
- the dip stick in the intake manifold.

Final check

Test drive the car. Check the following:

- that there is no fuel leakage
- that the engine operates normally.

Check that everything is in position. Clean the engine compartment.

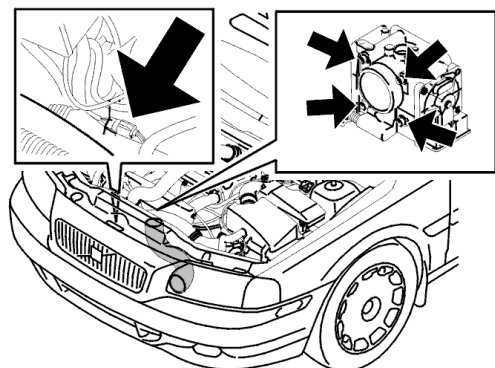
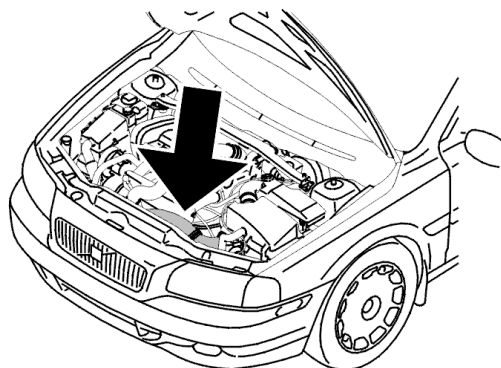
Replacing the exhaust manifold and gasket

Replacing the exhaust manifold and gasket according to [Turbocharger \(TC\)](#) .

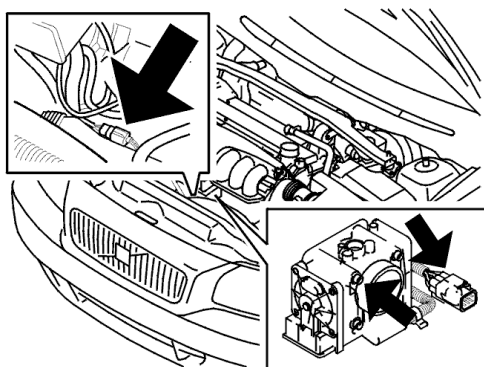
Throttle body (electronic throttle module (ETM)), replacing

Replacing the electronic throttle module (ETM)

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



Disconnect the hose between the charge air cooler (CAC) and the throttle body (TB) at the end of the throttle body (TB). Move to one side. Remove the tie strap at the connector.



Disconnect the throttle body (TB) connector.
Remove the throttle body (TB).
Clean the mating surfaces thoroughly.

Installing the throttle body (electronic throttle module (ETM))

Install

- a new throttle body (TB) with a new gasket.
Tighten to 17 Nm
Connect the throttle body (TB) connector
- the tie strap at the connector
- the pipe between the throttle body (TB) and the charge air cooler (CAC)
- 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 according to the table below.

S60	Order SW
V70 2000-, V70 XC 2001-/XC70	Order SW
S80	Order SW

Programming the control module

Program the new control module according to the table below.

S60	Load SW
V70 2000-, V70 XC 2001-/XC70	Load SW
S80	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.