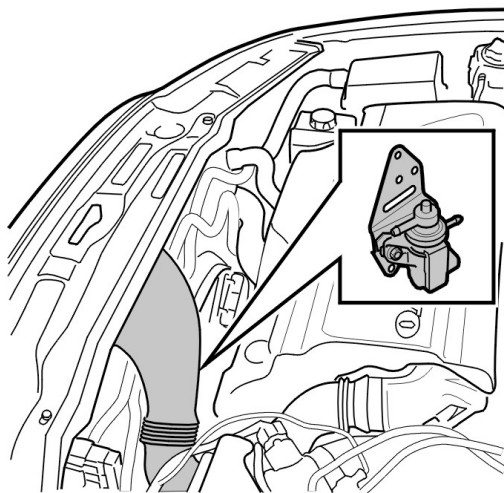


Replacing the engine cooling fan (FC)

Preparation

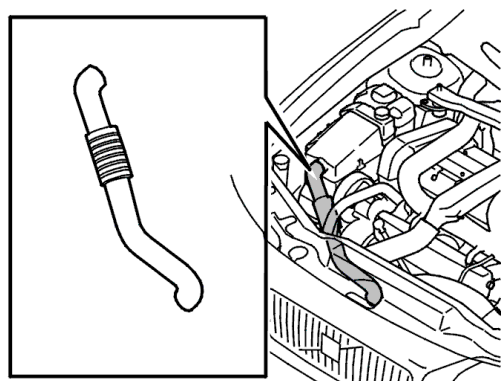
Remove

- the air cleaner (ACL) housing intake pipe from the connection above the radiator. Twist the pipe up
- the canister purge (CP) valve from the fan shroud. Remove the cable from the clamp.



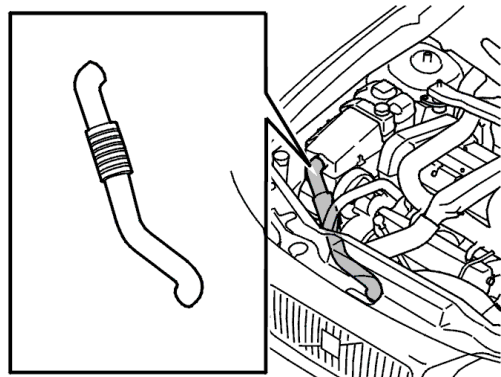
Remove

- the air pipe at the control module box
- the hose clamp and the charge air pipe / hose on the right-hand side (turbocharged engines only). If necessary, use a hot air gun to make removal easier.

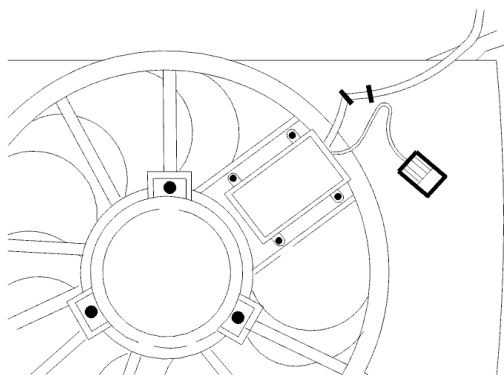


Remove

- the manifold absolute pressure (MAP) sensor from the mounting in the front cover plate
- the two tie straps holding the wiring in the upper fan shroud. Remove the wiring from the holder on the fan shroud, right-hand side.
- Lift out the hose for the expansion tank from the holders on top of the fan shroud
- Disconnect both the engine cooling fan (FC) connectors
- Remove the upper oil cooler hose at the cooling unit. Move the hose to one side. Seal the hose using paper to avoid spillage (automatic gearboxes only)
- Remove both the screws holding the fan shroud
- Carefully lift up the engine cooling fan (FC).



Replacing the fan unit



Place the engine cooling fan (FC) on a flat surface with the fan pulley downwards.

Remove

- the cable and connector from the holder on the fan shroud
- the screws for the control module and the blower fan motor.

Lift off the fan shroud.

Install a new fan unit in reverse order.

Finishing

- Carefully lower the fan shroud. Align it with the holes at the sides of the radiator
- Tighten both the mounting screws
- Install the upper oil cooler hose at the cooling unit (automatic gearboxes only)
- Connect the engine cooling fan (FC) connectors
- Press the hose down from the expansion tank into the holder on the fan shroud
- Secure the wiring to the holder. Use tie straps.
- Press the canister purge (CP) valve into the holder and the cable into the clamp on the fan shroud
- Press the pressure sensor onto the mounting in the front cover plate
- Install the hose clamp and the charge air pipe / hose on the right-hand side (turbocharged engines only)
- Install the air pipe at the control module box
- Turn down the air cleaner (ACL) intake pipe. Align the pipe with the air intake.

