SERVICEINFORMATION

TANK INDICATOR ERRORS

DETACHED CABLES DUE TO DEFECTIVE FUEL TANK VENTILATION

Vehicles: Volvo	Product: Fuel delivery module	Product: Fuel delivery module	
Vehicle applications	Pierburg no.	Ref. no.*	
S40/V40 1.6i/1.8i/2.0i	7.00468.66.0	30630538; 30630593; 30865670	
S40/V40 1.9i/2.0i Turbo	7.00468.67.0	30630033; 30630536; 30630594; 30899079	

POTENTIAL COMPLAINTS

- Tank indicator error
- Cable has become detached from fuel delivery module
- Loud hissing when opening tank cap

Defects in the fuel tank ventilation system can lead to an excessive vacuum in the fuel tank. This can cause excessive compression of the fuel tank.

The fuel delivery module comprises a flange cover and the reservoir with the sender unit and fuel pump. Thanks to this

two-part construction, the fuel delivery module can compensate for changes in the size of the fuel tank up to a certain degree (Fig. 1).

However, if the vacuum becomes too strong during cold weather, for example, and the fuel tank shrinks too much, the sender unit's cables can become detached (Fig. 2).

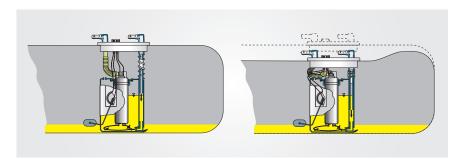


Fig. 1: The fuel delivery module can compensate for changes to fuel tank size.

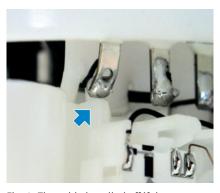


Fig. 2: The cable is pulled off if the compression of the fuel delivery module is too extreme.

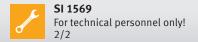


Fig. 3: Typical damage symptoms: the sender unit's cable is detached and the electrical contacts are bent.

All content including pictures and diagrams is subject to change. For assignment and replacement, refer to the current catalogues or systems based on TecAlliance.

 $^{{}^{\}star}\,\text{The reference numbers given are for comparison purposes only and must not be used on invoices to the consumer.}$





FUEL TANK VENTILATION SYSTEM (BACKGROUND INFORMATION)

The fuel tank ventilation system prevents the emission of harmful hydrocarbons by binding fuel vapours with an activated carbon filter (ACF) in a special receptacle or canister (07). For this reason, the fuel tank ventilation system is also known as an activated carbon filter system or ACF system.

In certain operating states, the ACF canister is flooded with fresh air via the open canister purge shut-off valve (08). The accumulated hydrocarbons are channelled in a controlled manner for combustion via the regeneration valve (04).

The fuel tank ventilation system also provides air to the fuel tank, for example if a vacuum forms in the tank when fuel levels fall or the ambient temperature is low.

POTENTIAL SOURCES OF ERROR IN THE FUEL TANK VENTILATION SYSTEM

- Defective solenoid valves
- Blocked activated carbon canister
- Blocked venting valve in the fuel tank cap (01)
- · Bent or blocked connections

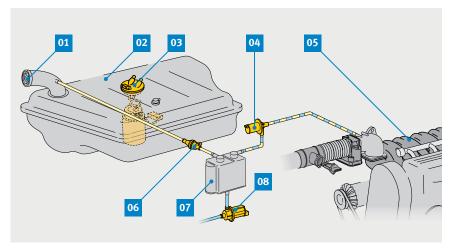


Fig. 4: Fuel tank ventilation system (schematic)

- **01** Fuel tank cap, poss. with venting valve
- 02 Fueltank
- 03 Fuel pump
- **04** Canister purge valve/regeneration valve
- 05 Intake manifold
- **06** Fuel tank pressure valve
- **07** ACF canister
- **08** Canister purge shut-off valve

