

## Fuel supply system, servicing guidelines

### Safety precautions

#### **WARNING!**

**When removing and installing fuel pump or fuel gauge sensor from a partially filled fuel tank:**

- ◆ **BEFORE beginning work, place exhaust extraction system suction pipe near fuel tank opening so escaping fuel vapors can be immediately sucked off.**
- ◆ **If no exhaust extraction system is available, use a radial fan (with motor located outside airflow) with volume of at least 9 cfm.**
- ◆ **Wear fuel-resistant gloves whenever working with open parts of the fuel system.**

**Be sure the ignition is switched off when:**

- ◆ **Disconnecting fuel injection system wiring.**
- ◆ **Connecting or disconnecting test equipment leads.**

***BEFORE cranking the engine at starting RPM (such as compression testing) disable the fuel injection and ignition systems:***

- ◆ ***Disconnect the ignition coil power output stage.***
- ◆ ***Disconnect harness connectors from all fuel injectors.***
- ◆ ***After the work is completed, erase Diagnostic Trouble Code (DTC) memory.***

**WARNING!**

- ◆ ***Fire hazard! Do NOT have anything in the area that can ignite gasoline!***
- ◆ ***Fuel system is under pressure! Before opening, place clean cloths around the connections to be opened. Carefully loosen the connections to relieve pressure.***

**CAUTION!*****BEFORE disconnecting the battery:***

- ◆ ***Stop the engine.***
- ◆ ***Be sure the ignition is switched off (also applies when connecting the battery). Failure to do so may damage the Engine Control Module (ECM).***
- ◆ ***Be sure of the proper radio code (for vehicles equipped with coded anti-theft radio)***

***Be sure the battery negative (-) cable is disconnected, when:***

- ◆ ***Working on the electrical system.***
- ◆ ***Resistance (spot) welding or electric arc-welding anywhere on the vehicle.***

***When connecting and disconnecting electrical test equipment (LED voltage tester, multimeter, etc.)***

- ◆ ***Be sure the ignition is switched off.***
- ◆ ***Use correct adapters from VW 1594***

***connector test kit.***

***Always refer to the latest parts catalog to ensure that you use original equipment fuel hose clamps.***

## Rules of cleanliness

### **CAUTION!**

***Whenever working on the fuel supply and fuel injection systems, carefully observe the following five rules of cleanliness:***

- 1.- Thoroughly clean fuel system lines and hose connections and surrounding area before disconnecting.
- 2.- Place removed components on a clean surface and cover them. Use plastic sheeting or paper. Do not use fluffy rags that could leave lint.
- 3.- Carefully cover or seal any components that have been opened if repairs are not carried out immediately.
- 4.- Install only clean parts. Do not remove replacement parts from the packaging until immediately before they are installed.  
  
Do not use parts that have been stored without packaging (from toolboxes, for example).
- 5.- When fuel system is opened avoid working with compressed air whenever possible. Avoid moving the vehicle if possible

Observe following points before working on the fuel supply system

**CAUTION!**

***Obtain the radio Anti-theft code from the customer before disconnecting the Battery Ground strap.***

- ◆ With ignition switched OFF, disconnect Battery Ground strap.
- ◆ Open the fuel filler cap briefly and close again.

Observe the following precautions when removing or installing components from a filled or partially filled fuel tank.

**WARNING!**

***Empty the fuel tank before removal! If it is not empty, the weight and sloshing fuel could lead to injury, component damage or possible fuel spillage.***

- ◆ Fuel tank must not be filled more than  $\frac{1}{3}$  maximum.
- ◆ Reduce fuel quantity using fuel cart, if

necessary.

- ◆ Do NOT allow fuel to contact skin! Wear fuel-resistant gloves!