

**Haynes**
shows you how

BMW 3-Series (92-98) & Z3 (96-98) Haynes Online Manual

8 Fuel pump/fuel gauge sender unit - removal and installation

Warning:

Refer to the **Warnings** in Section 1 before proceeding.

Note:

A new sealing ring and a new locking ring must be used on installation.

Removal

- 1 The fuel pump is integral with the right-hand fuel gauge sender, in the right-hand half of the fuel tank.
- 2 Disconnect the battery negative cable. **Caution:** *If the stereo in your vehicle is equipped with an anti-theft system, make sure you have the correct activation code before disconnecting the battery.*
- 3 Before removing the fuel pump/fuel gauge sender unit, all fuel should be drained from the fuel tank. Since a fuel tank drain plug is not provided, it is preferable to carry out the removal operation when the tank is nearly empty. Before proceeding, disconnect the battery negative cable and siphon or hand-pump the remaining fuel from the tank. **Caution:** *If the stereo in your vehicle is equipped with an anti-theft system, make sure you have the correct activation code before disconnecting the battery.*
- 4 Remove the rear seat cushion with reference to [Chapter 11](#) .
- 5 Lift up the floor insulation to expose the fuel pump/sender unit cover. Remove the securing screws and withdraw the cover from the floor (see illustration) .

8.5 Withdraw the cover to expose the fuel pump/sender unit



6 Disconnect the two electrical connectors from the fuel pump/sender unit.

7 Loosen the hose clamps, then disconnect the fuel hoses from the fuel pump/sender unit. Mark the hoses to ensure that they are correctly reconnected. Be prepared for fuel spillage.

8 Unscrew the fuel/pump sender unit locking ring and remove it from the tank. This is best accomplished by using a large pair of pliers to push on two opposite raised ribs on the locking ring (see illustration 9.3b) . Alternatively, use two screwdrivers on the raised ribs, but take care not to damage the locking ring. Turn the ring counterclockwise until it can be unscrewed by hand.

9 Carefully lift the fuel pump/sender unit from the fuel tank, taking great care not to bend the sender unit float arm (gently push the float arm towards the unit if necessary). Recover the sealing ring.

Installation

10 Before installation, check the condition of the fuel pick-up strainer, and clean if necessary.

11 Installation is a reversal of removal, bearing in mind the following points.

- A. Use a new sealing ring and a new locking ring.
- B. To allow the unit to pass through the aperture in the fuel tank, press the float arm against the fuel pick-up strainer.
- C. When the unit is reinstalled, the raised ribs on the unit must align with the corresponding mark on the fuel tank.