



## Xenon-Lamps

If a gas is used instead of a tungsten wire, as in a normal bulb, through which the current flows, we are talking about a gas discharge lamp. This type of lamp is filled with gas and metal dust. The mixture, when electrical current flows through the lamp, illuminates.

The advantage is almost a similar light performance as daylight with a 30% less electricity consumption (operating energy input 35 watt) against the conventional bulb. There are two different types of Xenon-lamps:

D2R =Xenon-lamp for reflection systems (DB W210)

D2S =Xenon-lamp for projection systems (BMW 5er)

If Xenon-headlamps or Xenon-lamps are changed there are some fundamental points to be noted:

- Xenon-lamps need a high voltage for the ignition, therefore disconnect the plug from the power supply of the transformer before starting any work.
- In case of renewing a Xenon-lamp do not touch the glass because the fingerprints bake in and leave a mist.
- Pay attention that the lamp plug from the transformer is correctly fitted. If this is not the case the plug can be damaged by a voltage spike (plug and transformer are one unit and must be renewed completely).
- During the lamp change wear protective gloves and safety goggles because the Xenon-lamps are under high pressure.





- If a faulty Xenon-headlamp is renewed, the intact lamp should also be renewed to avoid light and low colour shifts. If you change only the lamp be sure that it is from the same manufacturer as the other one.
- Check the headlamp adjustment with a beam setter after every lamp change. Please take note of the owners manual for the automatic headlight levelling.

### **Important note:**

If a Xenon-lamp breaks in a closed room (garage) it is advisable to leave and ventilate the room for 20 minutes to avoid a health risk due to toxic gas.

Xenon-lamps are hazardous waste and must be disposed of properly. If the lamp is faulty but the glass intact it must be disposed of as hazardous waste because the gas/metal dust is mercurial and toxic if breathed in. If the glass is destroyed, for example after an accident, it can be disposed of in the normal waste because the mercury has evaporated. The waste disposal code number is: 060404