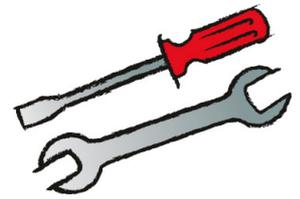




Das Original

TSI 07/10



Tips from the gasket expert Engine failure – is the cylinder head gasket to blame? Overheating on 2-layer metal gaskets

Damage symptoms:

The metallic functional layer into which the combustion chamber seal is integrated is broken in the area of the sealing web. Obvious black discoloration indicates over-blown combustion gas.



Cause:

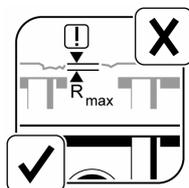
Part distortion resulted in over-blown combustion gases, which in turn overheated the metal layers and lead to their destruction.

Other possible causes:

- Low quality fuel (insufficient octane rating).
- Excessive compression ratio.
- Engine tuning (sparkplugs with incorrect heat rating).
- Insufficient bolt clamp force (bolt quality, tightening of bolts).

Measures:

Check the condition of the sealing surfaces very closely before installation and ensure that the cylinder head is. If necessary resurfacing by a specialist.



Para- meters	Metal/soft- material	Multi-layer metal	Metal- elastomer
R _z	15 - 20 µm	11 µm	11 - 20 µm
R _{max}	20 - 25 µm	15 µm	15 - 20 µm
W _t		8-10 µm	