

3.3.2



3 Piston crown

3.3.2 Yielding of the piston crown

Symptoms The piston crown is sunk in. There are no traces of impact.

Cause and Effect The faulty combustion process (preignition) caused excessive temperatures without localized overheating. The strength of the material has been reduced by this overheating, with the result that the piston crown is no longer able to withstand the combustion pressures and has assumed a concave shape. On further heating, the piston crown would then develop a hole.

Remedy Prevent over-lean carburetor settings by carrying out regular checks and, in the case of petrol engines with fuel injection, check that the composition of the mixture is correct.