

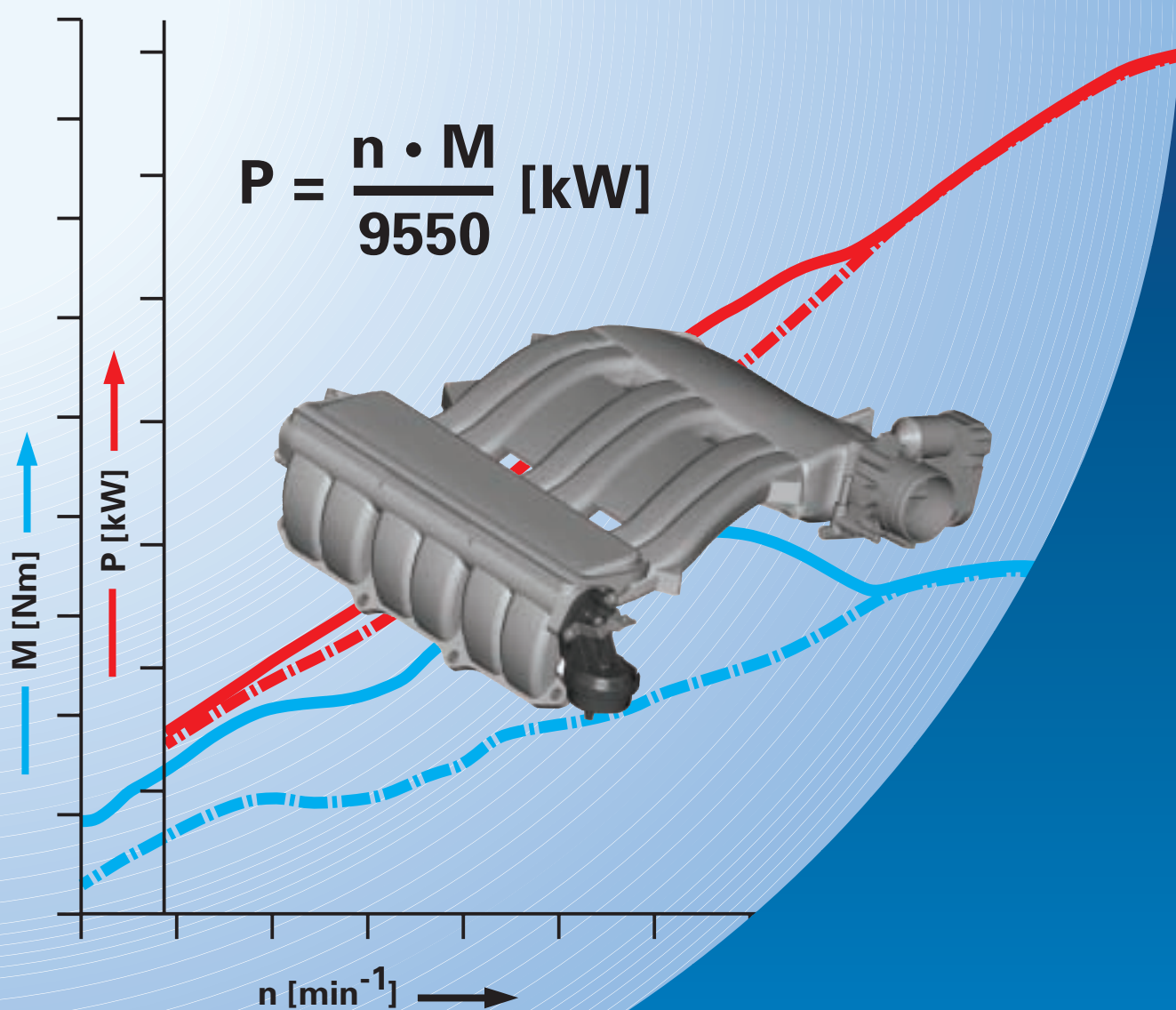
Service.



Self-study programme 212

Variable Intake Manifold in VR Engines

Principles and Description of Operation





212_020

The output and torque of an engine have the greatest effect on the engine's character.

These, in turn, are greatly affected by the degree to which the cylinder is filled and the geometric form of the intake tract.

High torque requires an intake manifold with a geometry different to one for high power output.

A medium intake manifold length with a medium diameter represents a compromise, but a variable intake manifold is optimal.

This self-study programme explains how it was possible to optimise the torque and output of the VR engine with the concept and design of the new intake manifold and just how an intake tract affects the air supply.

The VR6 engine, in which the conventional intake manifold has been replaced by the new variable intake manifold, provides an example which makes the increase in power and torque very clear.

A patent for the variable intake manifold concept of the VR engine has been applied for.

NEW



Important Note



The self-study programme is not a workshop manual!

Please always refer to the relevant Service literature for all inspection, adjustment and repair instructions.