

CHAPTER 7

Turbocharger or Supercharger?

All devices that boost the intake charge pressure are called superchargers. Superchargers that are driven by the residual heat from the exhaust gas are called turbochargers because the machine that drives the air compressor is a gas turbine. Other externally mechanically driven compressors are usually called superchargers.

The turbocharger and supercharger both perform the function of ramming in the inlet charge rather than allowing it to be naturally induced. They vary somewhat in their method of operation and both have inherent advantages and disadvantages.

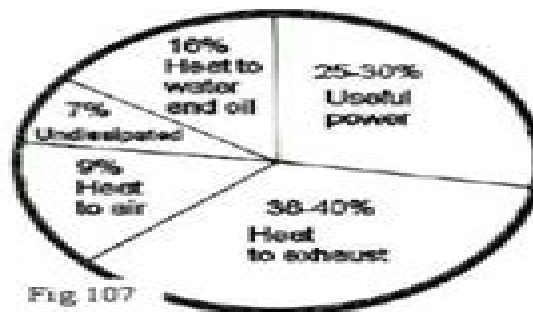


Fig 107

If we look at the power "pie" diagram in Fig. 107, it will be seen that, of every 100% of heat energy put in the form of fuel, only 10-30% actually gets converted into useable horsepower, whereas nearly 40% gets dumped as waste heat, down the exhaust pipe.

The turbocharger uses this energy to drive a turbine coupled to a centrifugal compressor. This combination is successful because, in order to be compact and efficient, a centrifugal compressor needs to be turned at very high speed, typically around 100,000rpm, and a gas turbine also operates efficiently at those sort of speeds.

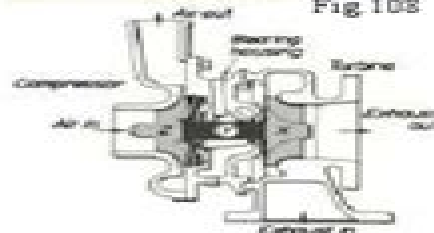


Fig 108

The compressor in turn, takes the inlet air, or in some cases the inlet mixture, if the carburettor is upstream, and rapidly accelerates it, causing adiabatic compression (compression at constant volume) in the inlet manifold.

As the inlet valve opens, this pressure drives inlet gas into the combustion chamber.

A typical turbo-charger installation and section schematic are shown here. (Fig 108)



A schematic of the way in which it is utilised with the engine is shown in Fig 109.

The high operating speed obviously calls for a high degree of precision in manufacture and servicing and this means that turbochargers are relatively costly and short-lived in small petrol engines.

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