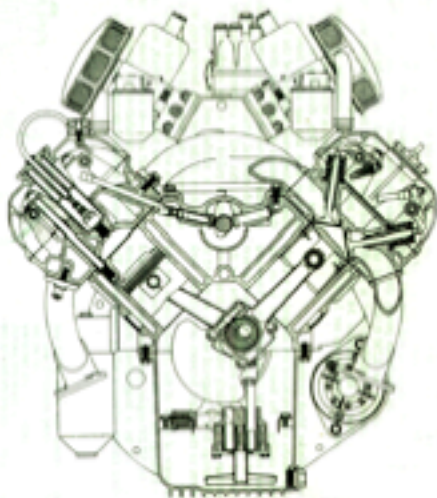


THE EDWARD TURNER DESIGNED 1959 DAIMLER V8 ENGINES



The 2.5 litre version as fitted in the SP 250 sports car, 2.5lt. V8 & V8 250 saloon

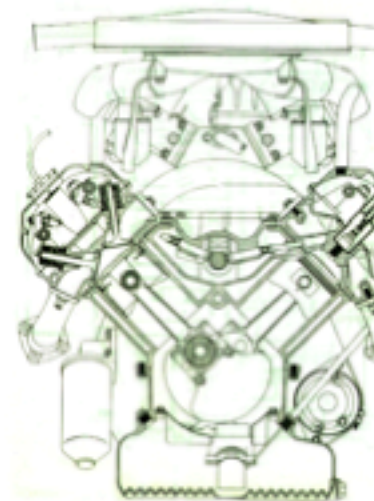
Edward Turner was well known for the design of motor cycle engines, particularly the Triumph Twin and the Ariel Square Four.

It is not surprising therefore, that these V8 Daimler engines should follow the then motor cycle practice of having part-spherical combustion chambers, unusual in car engines at the time.

The valves are equally inclined on each side of the cylinder axis and are actuated by a single camshaft, push rods and rockers. To avoid problems of the push rods fouling the cylinders the camshaft is mounted high in the V.

The cylinder heads, rocker box covers, tappet blocks, inlet manifolds and sumps are aluminium alloy, the cylinder blocks are cast iron, so the use of liners are avoided.

The crankshaft has 5 main bearings and carries a torsional vibration damper.

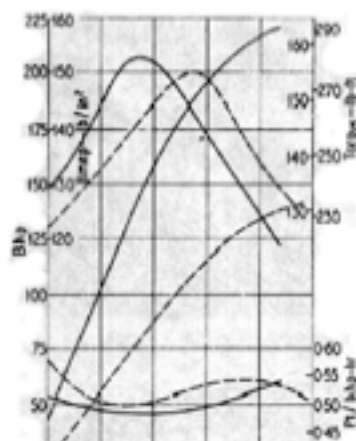


The 4.5 litre version as fitted in the Majestic Major Rang

Bore & Stroke
Swept Volume
Compression ratio
Overall Dimensions
Length without fan
Width
Height
Weight ex Flywheel
Max gross power
Power to weight ratio
Max Torque
Power output
At peak power
Mean piston speed

2.5 litre Version

76.2 x 69.85 mm
2,548 ccs
8.2 : 1
25.5 ins
24 ins
27 ins
419 lbs
140 bhp @ 5,200 rpm
0.334 bhp/lb
155 lb-ft @ 3,700 rpm
54.9 bhp/litre
2 660 ft/minute



Performance curves of the two engines; the dotted lines refer to the smaller unit. In both instances, useful torque is available at relatively low speeds. The minimum specific fuel consumption of the 4½ litre engine is commendably low

Bore & Stroke
Swept Volume
Compression ratio
Overall Dimensions
Length with fan
Width
Height
Weight ex Flywheel
Max gross power
Power to weight ratio
Max Torque
Power output
At peak power
Mean piston speed

4.5 litre Version

95.25 x 80.01 mm
4,561 ccs
8.0 : 1
31.25 ins
25.5 ins
31 ins
488 lbs
220 bhp @ 5,200 rpm
0.442 bhp/lb
282 lb-ft @ 2,700 rpm
48.3 bhp/litre
2 730 ft/minute