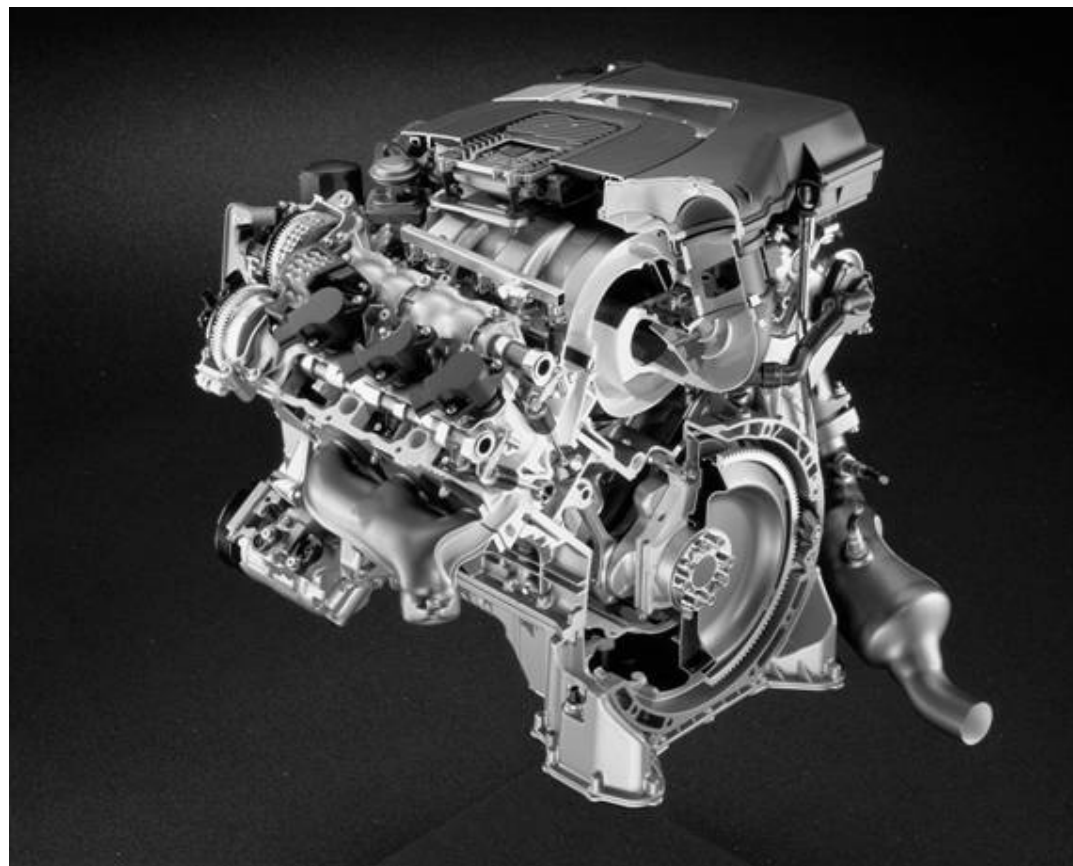




Mercedes-Benz

# M272 Engine



# Objectives

Students will be able to:

- identify differences between M112 and M272
- explain the camshaft adjusters operation
- identify major components of the M272
- explain function of the swirl flaps
- explain function of the temperature management system

# Contents

Comparison	4
Highlights	6
Motor mechanicals	9
Oil level switch	12
Crankcase ventilation	16
Cylinder head	18
Intake manifold	29
ME 9.7	40
Crank sensor	46
O2 sensors	49
Three way catalytic converters	50
Ignition coil	52
Mass airflow	54
Temperature management	55
Fuel tank	59
Speed sensitive power steering	64

# M272 – M112 Comparison

## **M272**

**3.5 litre**

268 hp @ 6000 rpm

258 lb-ft @ 2500 to 5000 rpm

Compression Ratio 10.7 : 1

Sparkplugs per cylinder 1

ME 9.7

Coil On Plug

## **M112**

**3.2 litre**

214 hp @ 5700 rpm

228 lb-ft @ 5700 rpm

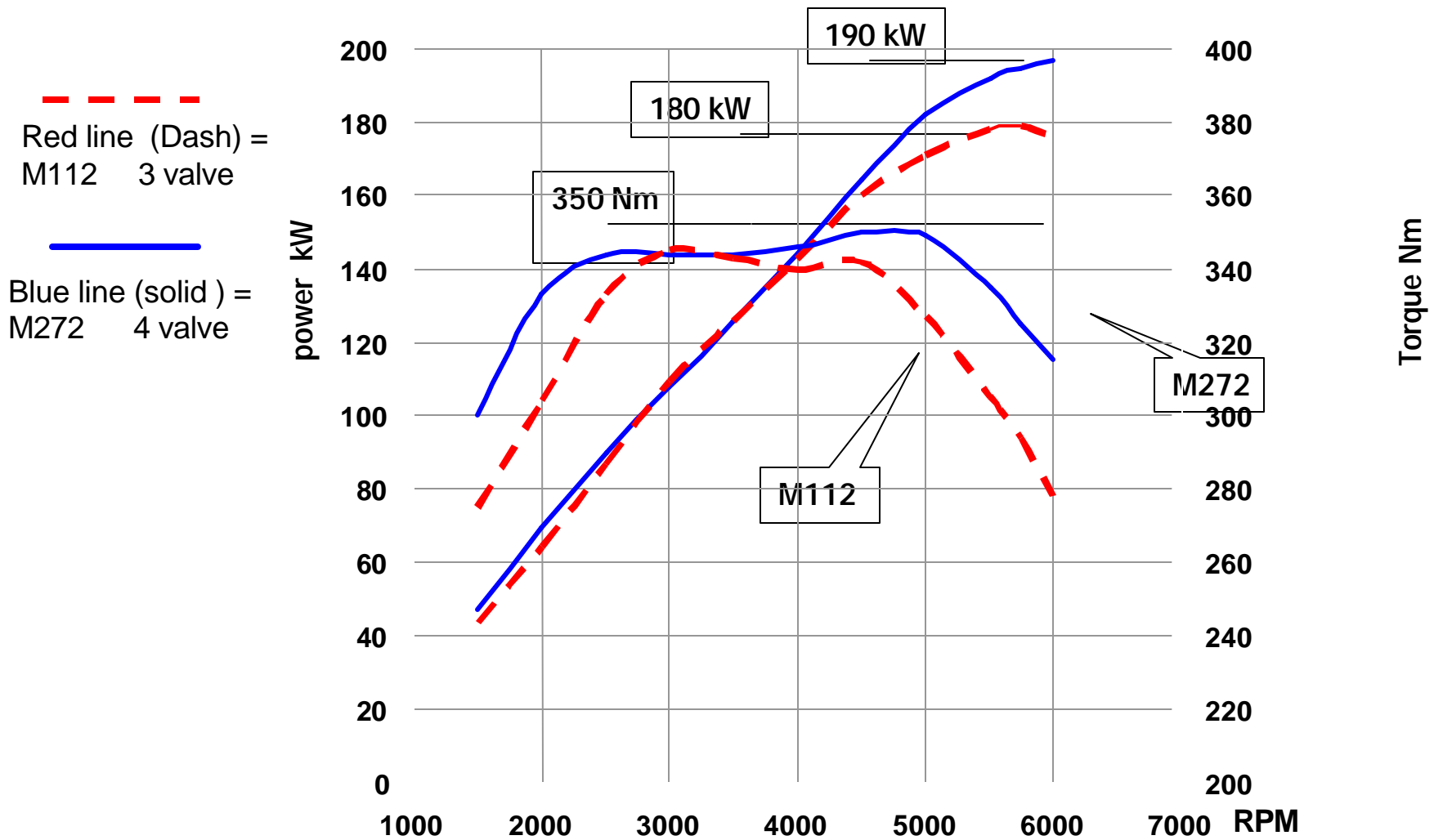
Compression Ratio 10.0 : 1

Sparkplugs per cylinder 2

ME 2.8

Double ignition coils

# Comparison



New M272 introduced in the new SLK 171

Lets look at some highlights

# M272 HighLights

- M112 replacement
- 3.5 litre displacement
- Counter rotating balance shaft
- Stiffer engine with lateral main bearing attachments
- 4 valve continuously variable camshafts intake and exhaust (DOHC)

