

1 Engine

911

Special model “40 years 911”

General

1001 Engine M 96/03S

The engine of the special model “40 years 911” is an increased power version based on the 911 Carrera 3.6 liter M96/03.

In this brochure, only the components deviating from the standard M96/03 engine are described.

This vehicle is only available with manual gearbox.

Summary of engine modifications:

- Intake air manifold with modified cross section
- Adapted intake manifold pipes
- Exhaust manifold with larger cross section and optimized flow characteristics
- Cylinder heads with optimized inlet ports
- Camshafts with greater valve stroke on inlet side and modified inlet/exhaust valve timing
- Inlet valve springs adapted to increased valve stroke
- Modified bulkhead box in oil pan
- Additional radiator
- Modified map for the DME control unit

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The most important engine data at a glance:

Displacement	3596 cm ³	Max. torque	370 Nm
Bore	96 mm	At engine speed	4800 rpm
Stroke	82,8 mm	Compression ratio	11,3 : 1
Power output	254 kW (345 HP)	Governed speed	7300 rpm
At engine speed	6800 rpm	Engine type	M96/03 S

1570 Cylinder head

The inlet ports have been additionally re-worked to eliminate any existing interferences edges.

This results in an even more uniform distribution of the mixture to the individual cylinders.



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1505 Camshafts

The valve stroke of the inlet camshafts has been increased to 11.73 mm and the valve timing on the inlet and exhaust sides modified.

The adjustment angle of the camshaft adjuster is 42°.

Valve timing:

Inlet opens, large stroke	9 degrees after TDC
Inlet closes, large stroke	61 degrees after BDC
Inlet opens, small stroke	39 degrees after TDC
Inlet closes, small stroke	19 degrees after BDC
Exhaust opens	50 degrees before BDC
Exhaust closes	4 degrees before TDC

1561 Valve springs

The inlet valve springs have been adapted to the increased valve stroke.

The inlet valve springs consist of a double valve spring set, whereby the inner spring differs from the standard engine in the spring rating and is colored yellow.

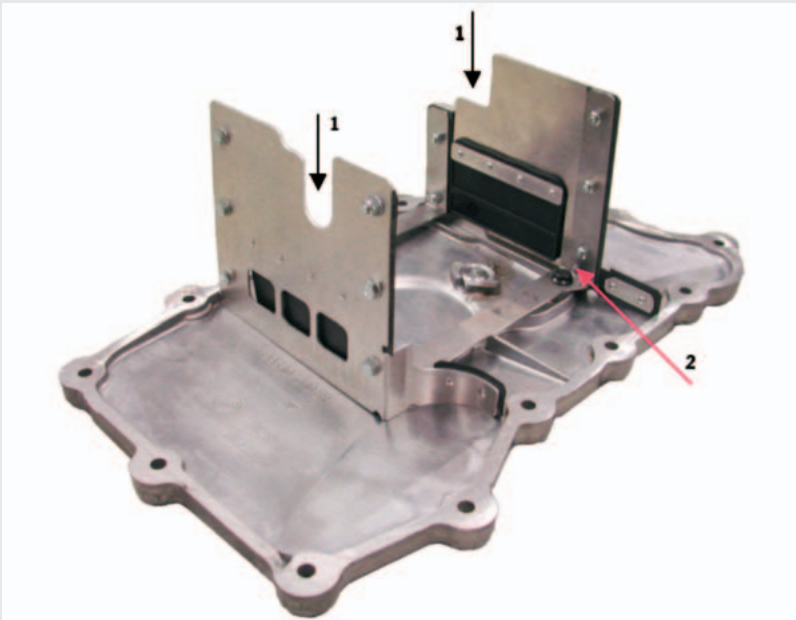


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17 Oil supply

To ensure a reliable oil supply at the higher cornering speeds, the bulkhead box in the oil pan has been modified.

The cutouts (arrow 1) have been optimised, the beads (arrow 2) provide greater rigidity.



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19 Cooling system

In order to ensure sufficient cooling with the increased power output, an additional radiator has been fitted at the front center of the vehicle.