

**Engine &** 

Cooling

**Fuel** 

Ignition

Electrical

Running

gear

bar

bar

 $^{\circ}C$ 

mm

mm

°C

bar

rpm

rpm

ppm

%

% %

bar

bar

RON

ohms

ohms

٧

3201 / 6

≥1.0 / 4.0

0.18 to 0.23

0.28 to 0.33

1-5-3-6-2-4

80

**TCE** 

80

11.3 / 11 to 12

Torque

settings

Capacities

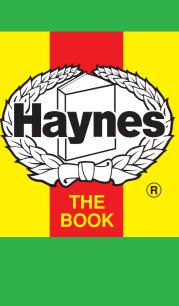
Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

1996 to 1997

**M3** 

Notes &

Illustrations



Automotive Technical

**MENU M3** S50/B32 236kW

1996 to 1997

**HELP** 

**Engine and cooling system** Capacity (cm<sup>3</sup>) / number of cylinders Compression ratio / pressure Oil pressure Oil temperature Valve clearance - inlet clearance - exhaust Firing order No 1 cylinder position

Thermostat opening temperature Radiator cap pressure Fuel system

Idle speed - manual [auto] Fast idle speed - manual [auto] CO @ idle speed [3000 rpm] - see page VI HC @ idle speed [3000 rpm] - see page VI CO2 @ idle speed [3000 rpm] - see page VI O2 @ idle speed [3000 rpm] - see page VI

Carburettor / fuel injection Type / ref Main jet / needle Injection pressure

Pump pressure Octane rating Primary resistance Ballast resistor Voltage - Tmnl 15(+) to earth

**Ignition system** Type Points gap (air gap) Dwell angle Condenser capacity

Rotation

Ignition coil

V = Vacuum NV = No Vacuum

Distributor Total ignition advance

Ignition timing - basic [static Centrifugal check.

Vacuum range check Spark plugs Type Electrode gap

**Electrical system Battery** 

Alternator voltage / full load current / engine rpm Starter motor current / voltage - cranking - locked

Running gear Brakes -Front (min. friction material thickness) Rear (min. friction material thickness)

**Tyres** Saloon Estate / Van Pressure - front / rear - Saloon - Estate / Van

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-) Camber Castor King pin inclination Rear suspension / wheel alignment Toe-in (+) / Toe-out (-)

Camber

Cylinder head - stage 1 - stage 2 Cylinder head - stage 3 - stage 4 Big-end bearings

Clutch cover

Front hubs

Rear hubs

Flywheel [driveplate]

**Torque wrench settings** 

Main bearings

Wheel nuts / bolts Spark plugs **Capacities** Engine oil & filter Gearbox - 4-speed [5-speed]

Automatic transmission - refill

Final drive Cooling system Fuel tank **Notes and Illustrations** 

Maximum vacuum advance

° Crankshaft @ rpm ° Crankshaft @ rpm

mbar ° Crankshaft

mm V / CC / RC A/V

A/V

mm

mm

Size

Size

bar

bar

mm [°]

mm [°]

Nm

litres

litres

litres

litres

litres

litres

**NGK** 

PKR 7A

 $0.6 \pm 0.1$ 

12 / 65Ah

\_ / 115 / \_

3.0

3.0

225/45x17: 245/40x17

Refer to vehicle

 $[0^{\circ}10'\pm5']$ 

 $[0^{\circ}30'\pm5']$ 

-2°41′±10′

30 N

+90°

+90°

34

105 N

290

300

8.0

1.3

62

10.75

1.75

100±10

5, 20 +65°

-2°±30′ 7°12′±30′

mm ° (%) μF

98[U] Direct electronic 0.82

780±50 ≤0.3 ≤200 MS S50

**M3** 

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1996 to 1997

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