MERCEDES-BENZ

S420 (140.042/3)

Running Electrical Ignition gear

4196 / 8

0: Hyd.

0: Hyd.

80

FR

87±2

≤0.3

≤200

Bosch

LH-Jetronic

3.7 to 4.2

95[U]

EZL

0.3 to 0.6

Battery

1.40±0.10

600 to 750

11.0 / 13.5 to 15.5

1-5-4-8-6-3-7-2

S420 (140.042/3)

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Computer control N/A

Computer control

Computer control

Computer control

Bosch/Champion

F8DCO / C10YCC

S420 (140.042/3)

S420 (140.042/3)

13.5 to 14.0 / 120 / _

0.80

12 / 100Ah

95/11.5

2.5

2.5

235/60x16

2.4 / 2.5

 $[+35'\pm10']$

-20'±10' 10°20′ ± 30′

 $[+35'\pm5']$

55¹

+ 90°

+ 90°

WSM

WSM

320

150 20

8.0

7.7

1.3

16.5

100

45, + 90 to 100°

35, + 90 to 100°

S420 (140.042/3)

S420 (140.042/3)

0.3 [3.0 @ 3000rpm]

bar

bar

 $^{\circ}C$

mm

mm

°C

bar

rpm

rpm

ppm

%

%

%

bar

bar

RON

ohms

ohms

٧

mm

μF

° (%)

mbar

mm

A/V

A/V

mm

mm

Size

Size

mm [°]

Nm

litres

litres

litres

litres

litres

litres

° Crankshaft

V / CC / RC

° Crankshaft @ rpm

° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm

° Crankshaft @ rpm ° Crankshaft @ rpm ° Crankshaft @ rpm

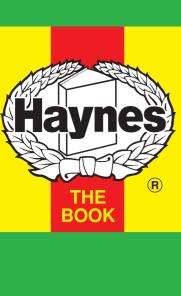
Torque Capacities settings

1993 to 1997

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.

Notes &

Illustrations



Fuel

Engine &

Cooling

Automotive Technical

MENU HELP S420 (140.042/3) 1993 to 1997 119.971 DOHC 32V 205kW

Capacity (cm³) / number of cylinders Compression ratio / pressure Oil pressure Oil temperature clearance - exhaust

Engine and cooling system

Valve clearance - inlet 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 **Ignition system**

Type Ballast resistor

Ignition coil Primary resistance Voltage - Tmnl 15(+) to earth Points gap (air gap) Dwell angle Condenser capacity

Distributor Rotation Ignition timing - basic [static V = Vacuum NV = No Vacuum Total ignition advance

Centrifugal check. Vacuum range check

Spark plugs Type Electrode gap **Electrical system Battery**

Running gear Brakes -

Tyres Saloon Estate / Van Pressure - front / rear - Saloon Front suspension / wheel alignment Toe-in (+) / Toe-out (-) Camber

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

Torque wrench settings Cylinder head - stage 1 Cylinder head - stage 3 Big-end bearings Main bearings Clutch cover

- stage 2

- stage 4

Flywheel [driveplate] Front hubs

Rear hubs Wheel nuts / bolts Spark plugs **Capacities** Engine oil & filter Gearbox - 4-speed [5-speed] Automatic transmission - refill Final drive

Cooling system

Notes and Illustrations

¹Bolts marked 'a' on diagram: 25

Fuel tank

Maximum vacuum advance Alternator voltage / full load current / engine rpm Starter motor current / voltage - cranking

- locked Front (min. friction material thickness)

Rear (min. friction material thickness) - Estate / Van

bar bar mm [°]

1993 to 1997

1993 to 1997