Engine &

Cooling

Ignition

Electrical

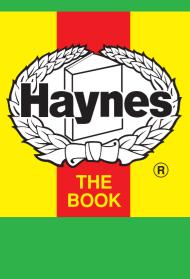
Running gear

Torque settings Capacities

1986 to 1989

Notes &

Illustrations



Fuel

Automotive Technical

data for this car. To return to this screen and make another choice, click anywhere on the data screen. **MENU HELP**

Click on one of the buttons above to view

420SL (107.047)

116.964 KE

4196 / 8

9.0 / > 8.5

0.3 [3.0]

0: Hyd.

0: Hyd.

FR

80 + 2

1.2±0.1

600 to 750

≤1200

Bosch

≥3.7

EZL

Bosch

Battery

Bosch

NV

0.2 to 0.4

6.2 to 6.4

95[E 95 RON]

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

420SL (107.047)

1.5±0.5 [0.1 to 0.8)

CIS-E (KE-Jetronic)

420SL (107.047)

1 to 18 @ starter speed

27 to 31 BTDC @ 3200

14 to 18 BTDC @ idle

Computer control

Computer control

420SL (107.047)

41 to 45 BTDC @ 3500

bar

bar

°C

mm

mm

°C

bar

rpm

rpm

ppm

%

1986 to 1989

Compression ratio / pressure
Oil pressure
Oil temperature

Engine and cooling system

Capacity (cm³) / number of cylinders

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

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

Octane rating **Ignition system**

Type Ignition coil Primary resistance Ballast resistor

Voltage - Tmnl 15(+) to earth Distributor Points gap (air gap) Dwell angle Condenser capacity Rotation

Ignition timing - basic [static V = Vacuum NV = No Vacuum Total ignition advance Centrifugal check.

Maximum vacuum advance Spark plugs Type Electrode gap **Electrical system**

Battery

Vacuum range check

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

Rear (min. friction material thickness) **Tyres** Saloon Estate / Van Pressure - front / rear - Saloon

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

Toe-in (+) / Toe-out (-)

Front suspension / wheel alignment

Torque wrench settings Cylinder head - stage 1 - stage 2

Spark plugs

Cooling system

Fuel tank

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

Main bearings Clutch cover Flywheel [driveplate] Front hubs

Rear hubs Wheel nuts / bolts

Capacities Engine oil & filter Gearbox - 4-speed [5-speed] Automatic transmission - refill Final drive

²M11: 55 + 90 to 100°

Notes and Illustrations

¹Bolts marked "a" on diagram, 25

4196 cm³, not S420

% % O2 @ idle speed [3000 rpm] - see page VI bar bar RON

> ohms ohms ٧ mm ° (%) μF

° Crankshaft @ rpm ° Crankshaft @ rpm

mm V/CC/RC Alternator voltage / full load current / engine rpm A/V Starter motor current / voltage - cranking

- locked

- Estate / Van

mbar ° Crankshaft

Bosch/Champion W7DC / N9YC 0.80 12 / 200 / 66Ah

13.0 to 14.5 / _ / 3000 A/V 560 to 780 / 5.0

mm

mm

Size

Size

bar

bar

mm [°]

mm [°]

Nm Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

Nm

litres

litres

litres

litres

litres

litres

2: CO / Mixture

420SL (107.047) 2.0 2.0 205/65x15

2.0 / 2.4

30¹

60

60

WSM

110

8.0

7.7

1.3

85

13.0

 $[+20'\pm10']$ -10'+10'-20' +10°30′±30′ [+10' to 35'] -1°45′±30′

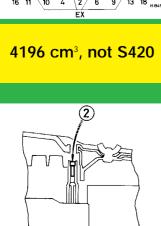
420SL (107.047) Wait 10 min.

45 + 90 to 100°

M10: 50. M11:² $35 + 90 \text{ to } 100^{\circ}$

25 to 30

420SL (107.047)



KE-Jetronic

H.20390

4196 cm³, not S420

1: Idle speed

IGN 4196 cm³, alternative

KE-Jetronic

H.20389