

Engine & Cooling

Fuel

Ignition

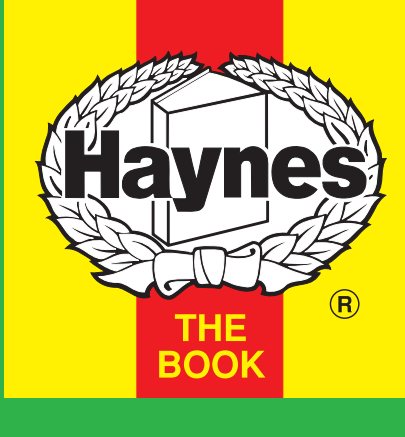
Electrical

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Automotive Technical
DATA BOOK

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Engine and cooling systemPrimera 2.0e & CAT (P10)1990 to 1995

Type		SR20DE DOHC 16V
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	10.0 / ≥10.8
Oil pressure	bar	0.8 [4.5]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TCE
Thermostat opening temperature	°C	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel systemPrimera 2.0e & CAT (P10)1990 to 1995

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤0.5 N/A
HC @ idle speed [3000 rpm] - see page VI	ppm	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch ¹
Type / ref		MPI with Hot wire & ECCS
Main jet / needle		—
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	95[E 95 RON] ²

Ignition systemPrimera 2.0e & CAT (P10)1990 to 1995

Type		Computerized
Ignition coil		Hanshin SMC-200. Mitsu. F-097
Primary resistance	ohms	1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	12.0
Distributor		Lucas/Hitachi
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Anticlockwise
Ignition timing - basic [static	° Crankshaft @ rpm	15±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	Computer control
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Vacuum range check	mbar	Computer control
Maximum vacuum advance	° Crankshaft	—
Spark plugs		NGK
Type		BKR6EY
Electrode gap	mm	0.80 to 0.90

Electrical systemPrimera 2.0e & CAT (P10)1990 to 1995

Battery	V / CC / RC	12 / 59 or 65Ah
Alternator voltage / full load current / engine rpm		14.5 / 80 / 3000
Starter motor current / voltage - cranking	A / V	78 / 11.5
- locked	A / V	—

Running gearPrimera 2.0e & CAT (P10)1990 to 1995

Brakes -		
Front (min. friction material thickness)	mm	2.0
Rear (min. friction material thickness)	mm	2.0

Tyres		
Saloon	Size	195/60x14: 195/65x14
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.2 / 2.0
- Estate / Van	bar	—

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0.2 to 4.2
Camber		-45' to +1° ³
Castor		+1° to 2°30' ⁴
King pin inclination		+13°45' to 15°15' ⁵

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-2.0 to +2.0 ⁶
Camber		-1°45' to -15' ⁷

Torque wrench settingsPrimera 2.0e & CAT (P10)1990 to 1995

Cylinder head - stage 1	Nm	39
- stage 2	Nm	78, loosen completely
Cylinder head - stage 3	Nm	39±5 + 90 to 100°
- stage 4	Nm	+ 90 to 100°
Big-end bearings	Nm	15 + 60 to 65°
Main bearings	Nm	35 + 45 to 50°
Clutch cover	Nm	22 to 29
Flywheel [driveplate]	Nm	83 to 93
Front hubs	Nm	235 to 314
Rear hubs	Nm	186 to 255 ⁸
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

CapacitiesPrimera 2.0e & CAT (P10)1990 to 1995

Engine oil & filter	litres	3.9
Gearbox - 4-speed [5-speed]	litres	3.6 ⁹
Automatic transmission - refill	litres	—
Final drive	litres	4x4 rear: 1.0
Cooling system	litres	6.4
Fuel tank	litres	60

Notes and Illustrations

¹[Bosch. Hitachi. Lucas. Jecs]

²CAT: 95 [U]

³4x4: -1°5' to +25'

⁴4x4: +1°35' to 3°5'

⁵4x4: +14°5' to 15°35'

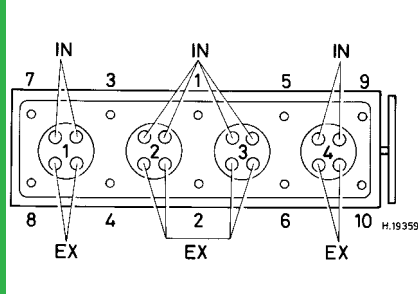
⁶4x4: 0 to -2.0

⁷4x4: -1° to +30'

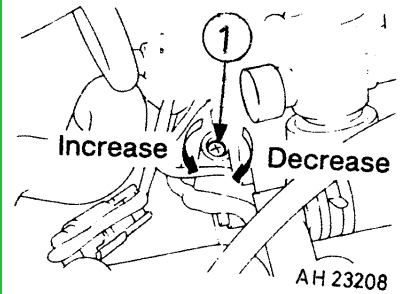
⁸4x4: 235 to 314

⁹4x4: 3.9. Transfer box: 1.6

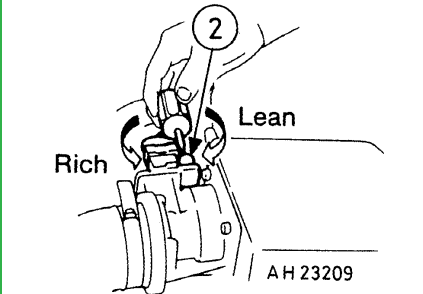
1: Idle speed 2: CO / Mixture



1998 cm³, 16V



Bosch MPi



Bosch MPi