

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling systemPrimera 2.0i (P10)1994 to 1996

Type		SR20De DOHC 16V
Capacity (cm ³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.5 / ≥10.3
Oil pressure	bar	0.78 [4.0]
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 to 80
Radiator cap pressure	bar	–

Fuel systemPrimera 2.0i (P10)1994 to 1996

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
Type / ref		SPI
Main jet / needle		–
Injection pressure	bar	2.45
Pump pressure	bar	2.94
Octane rating	RON	95[U]

Ignition systemPrimera 2.0i (P10)1994 to 1996

Type		Computerized
Ignition coil		–
Primary resistance	ohms	1.0
Ballast resistor	ohms	–
Voltage - Tmnl 15(+) to earth	V	–
Distributor		–
Points gap (air gap)	mm	–
Dwell angle	° (%)	–
Condenser capacity	µF	–
Rotation		–
Ignition timing - basic [static	° Crankshaft @ rpm	15±2 BTDC @ 850
V = Vacuum NV = No Vacuum		–
Total ignition advance	° Crankshaft @ rpm	Computer control
	° 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/Champion
Type		BKR5EY / RC9MCC
Electrode gap	mm	0.80 to 0.90

Electrical systemPrimera 2.0i (P10)1994 to 1996

Battery	V / CC / RC	12 / 59 or 65Ah
Alternator voltage / full load current / engine rpm		–
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	–

Running gearPrimera 2.0i (P10)1994 to 1996

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

Tyres		
Saloon	Size	185/65x14: 195/60x14
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	2.3 / 2.1
- Estate / Van	bar	–

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	+0 to 2.0
Camber		-45’ to +45’ N/A
Castor		+1° to 2°30’ N/A
King pin inclination		+13°45’ to 15°15’

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	-2.0 to +2.0 N/A
Camber		-1°45’ to -15’ N/A

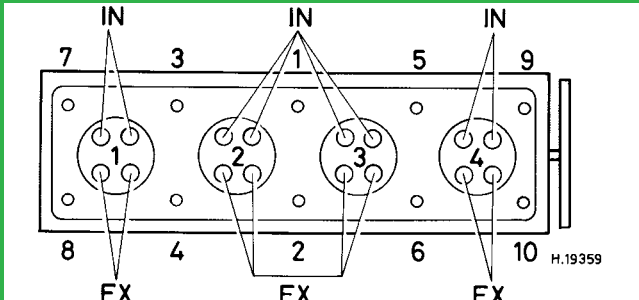
Torque wrench settingsPrimera 2.0i (P10)1994 to 1996

Cylinder head - stage 1	Nm	39 Bolts ≤158.2mm
- stage 2	Nm	78, loosen
Cylinder head - stage 3	Nm	34 to 44, +90°
- stage 4	Nm	+90°
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
Wheel nuts / bolts	Nm	98 to 118
Spark plugs	Nm	20 to 29

CapacitiesPrimera 2.0i (P10)1994 to 1996

Engine oil & filter	litres	3.4
Gearbox - 4-speed [5-speed]	litres	3.5 to 3.7
Automatic transmission - refill	litres	7.0
Final drive	litres	WT
Cooling system	litres	6.4. AT: 6.5
Fuel tank	litres	60

Notes and Illustrations



1998 cm³, 16V