Automotive Technical DATA BOOK

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MENU HELP

Engine and cooling system

Primera 2.0 & CAT (P10) 1990 to 1995

Type		SR20Di DOHC 16V
Capacity (cm³) / number of cylinders		1998 / 4
Compression ratio / pressure	bar	9.5 / ≥10.3
Oil pressure	bar	0.8 [4.0]
Oil temperature	ºC	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	ºC	76.5
Radiator cap pressure	bar	0.78 to 0.98

Fuel system

Primera 2.0 & 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	%	≤2.0. CAT: 0.5±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200. CAT: ≤100
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Bosch[1]
Type / ref		SPI with Hot wire
Main jet / needle		_
Injection pressure	bar	2.5
Pump pressure	bar	2.5
Octane rating	RON	95[E 95 RON][2]

Ignition system

Primera 2.0 & 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	º (%)	_
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	º Crankshaft @ rpm	15±2 BTDC @ 850±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		NGK/Champion
Type		BKR5EY / RC9MCC
Electrode gap	mm	0.80 to 0.90

Electrical system

Primera 2.0 & 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 gear

Primera 2.0 & 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	185/65x14:195/60x14: 195/65x14
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.3 / 2.1
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	+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 [º]	-2.0 to +2.0[6]
Camber		-1°45' to -15'[7]

Torque wrench settings

Primera 2.0 & 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

Capacities

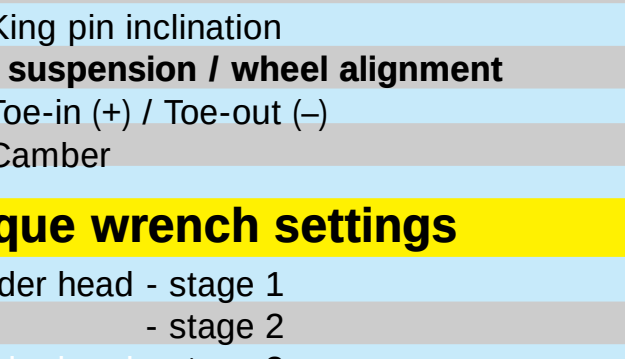
Primera 2.0 & CAT (P10) 1990 to 1995

Engine oil & filter	litres	3.9
Gearbox - 4-speed [5-speed]	litres	3.6[9]
Automatic transmission - refill	litres	7.0
Final drive	litres	4x4 rear: 1.0
Cooling system	litres	6.0
Fuel tank	litres	60

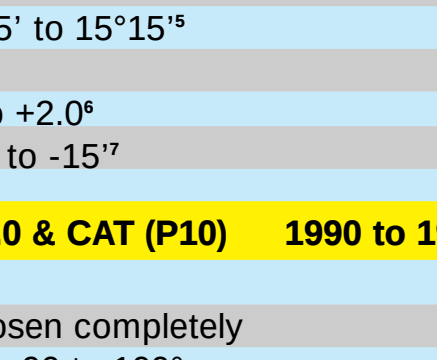
Notes and Illustrations

[1] **[Bosch. Hitachi. Lucas. Jecs]**
[2] **CAT: 95 [U]**
[3] **4x4: -1°5' to +25'**
[4] **4x4: +1°35' to 3°5'**
[5] **4x4: +14°5' to 15°35'**
[6] **4x4: 0 to -2.0**
[7] **4x4: -1° to +30'**
[8] **4x4: 235 to 314**
[9] **4x4: 3.9. Transfer box: 1.6**

1: Idle speed 2: CO / Mixture



1998 cm³, 16V



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