

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

Tempra 1.4 & Selecta

1990 to 1992

Type		159 A2.000 SOHC (56kW)
Capacity (cm ³) / number of cylinders		1372 / 4
Compression ratio / pressure	bar	9.2±0.1 / _
Oil pressure	bar	1.5 [4.6]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.40±0.05
Valve clearance - exhaust	mm	0.50±0.05
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85 to 89
Radiator cap pressure	bar	0.98

Fuel system

Tempra 1.4 & Selecta

1990 to 1992

Idle speed - manual [auto]	rpm	850±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
HC @ idle speed [3000 rpm] - see page VI	ppm	≤1200
CO2 @ idle speed [3000 rpm] - see page VI	%	_
O2 @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection		Weber
Type / ref		32-34 TLDE 21/151. A/c: 551
Main jet / needle		110, 123 [110, 122]
Injection pressure	bar	_
Pump pressure	bar	0.18
Octane rating	RON	97[E 95 RON]

Ignition system

Tempra 1.4 & Selecta

1990 to 1992

Type		Electronic
Ignition coil		Marelli BAE 506D
Primary resistance	ohms	0.666 to 0.814
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Marelli
Points gap (air gap)	mm	_
Dwell angle	° (%)	_
Condenser capacity	µF	_
Rotation		_
Ignition timing - basic [static	° Crankshaft @ rpm	10±1 BTDC @ idle
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
	° Crankshaft @ rpm	_
Centrifugal check.	° Crankshaft @ rpm	0±2 @ 1250±200
	° Crankshaft @ rpm	12±2 @ 2100±200
	° Crankshaft @ rpm	24±2 @ 5250±200
Vacuum range check	mbar	200 to 413
Maximum vacuum advance	° Crankshaft	12±2
Spark plugs		Bosch/Champion
Type		WR7DC / RN9YC
Electrode gap	mm	0.70 to 0.80

Electrical system

Tempra 1.4 & Selecta

1990 to 1992

Battery	V / CC / RC	12 / 200 / 40Ah
Alternator voltage / full load current / engine rpm		14.0 to 14.6 / 55, 90 / 3500
Starter motor current / voltage - cranking	A / V	160 to 180 / 9.4 to 9.6
- locked	A / V	316 / 7.3

Running gear

Tempra 1.4 & Selecta

1990 to 1992

Brakes -		
Front (min. friction material thickness)	mm	1.5
Rear (min. friction material thickness)	mm	1.5

Tyres		
Saloon	Size	165/70x13: 165/65x14:165/60x14
Estate / Van	Size	175/65x14: 185/60x14
Pressure - front / rear - Saloon	bar	2.0 / 2.0
- Estate / Van	bar	2.2 / 2.2

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0 to +1.0
Camber		-20' to +40' N/A
Castor		+1°50' to 2°50' N/A ¹
King pin inclination		_

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-3.0 to +1.0
Camber		-30' to -1°30' N/A

Torque wrench settings

Tempra 1.4 & Selecta

1990 to 1992

Cylinder head - stage 1	Nm	20
- stage 2	Nm	40
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	51
Main bearings	Nm	80
Clutch cover	Nm	16
Flywheel [driveplate]	Nm	83
Front hubs	Nm	235
Rear hubs	Nm	284
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities

Tempra 1.4 & Selecta

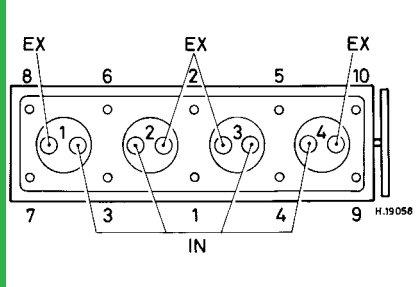
1990 to 1992

Engine oil & filter	litres	3.7
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	3.5
Final drive	litres	WT
Cooling system	litres	5.5
Fuel tank	litres	65

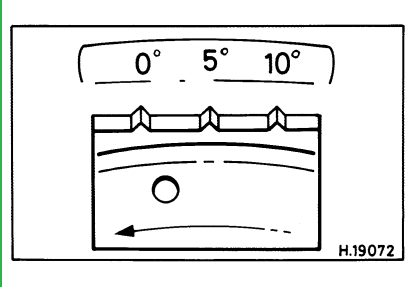
Notes and Illustrations

¹PAS 4D: +2°10' to 3°10'. 5D: +50' to 1°50'

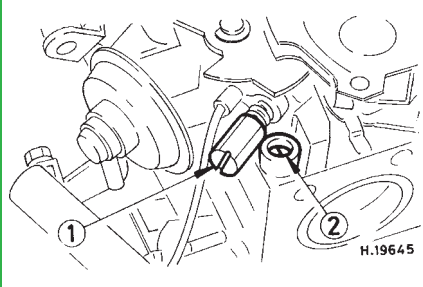
1: Idle speed 2: CO / Mixture



1372 cm³



1372 cm³



Weber TLDE