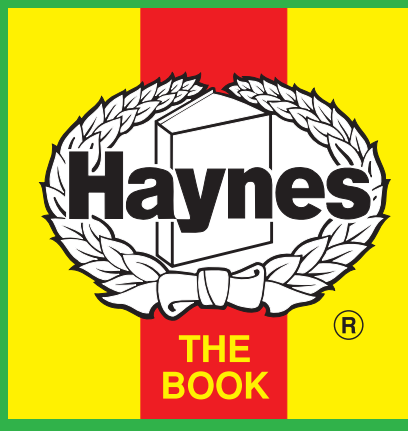


- Engine & Cooling
- Fuel
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Automotive Technical DATA BOOK

Click on one of the buttons above to view data for this car. To return to this screen and make another choice, click anywhere on the data screen.

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HELP

Engine and cooling system Tipo 1.1 1990 to 1992

Type	160 A3.000 SOHC 41kW	
Capacity (cm ³) / number of cylinders	1108 / 4	
Compression ratio / pressure	bar	9.6±0.5 / _
Oil pressure	bar	[2.9 to 3.9]
Oil temperature	°C	100
Valve clearance - inlet	mm	0.30±0.05
Valve clearance - exhaust	mm	0.40±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 Tipo 1.1 1990 to 1992

Idle speed - manual [auto]	rpm	800 to 850
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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	_
O ₂ @ idle speed [3000 rpm] - see page VI	%	_
Carburettor / fuel injection	Weber	
Type / ref	32 TLF 12/250	
Main jet / needle	105	
Injection pressure	bar	_
Pump pressure	bar	≥0.20
Octane rating	RON	97[E 95 RON]

Ignition system Tipo 1.1 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	FR7DC / RN9YC	
Electrode gap	mm	0.70 to 0.80

Electrical system Tipo 1.1 1990 to 1992

Battery	V / CC / RC	12 / 185 / 40 or / 200 / 40
Alternator voltage / full load current / engine rpm	14.3 to 14.6 / 55 / 3500	
Starter motor current / voltage - cranking	A / V	160 to 180 / 9.4 to 9.6
- locked	A / V	316 / 7.3

Running gear Tipo 1.1 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
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	2.0 / 1.9
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	0±1.0
Camber	+25'±30' N/A	
Castor	+1°40'±30'	
King pin inclination	_	
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (-)	mm [°]	-1.0±2.0
Camber	-1°±30'	

Torque wrench settings Tipo 1.1 1990 to 1992

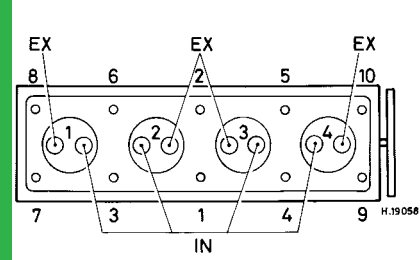
Cylinder head - stage 1	Nm	30
- stage 2	Nm	+ 90°
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	_
Big-end bearings	Nm	41
Main bearings	Nm	40 + 90°
Clutch cover	Nm	M6: 17. M8: 30
Flywheel [driveplate]	Nm	44
Front hubs	Nm	235
Rear hubs	Nm	320
Wheel nuts / bolts	Nm	86
Spark plugs	Nm	25 to 30

Capacities Tipo 1.1 1990 to 1992

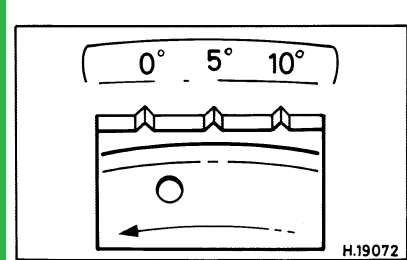
Engine oil & filter	litres	3.45
Gearbox - 4-speed [5-speed]	litres	1.4
Automatic transmission - refill	litres	_
Final drive	litres	WT
Cooling system	litres	4.5
Fuel tank	litres	55

Notes and Illustrations

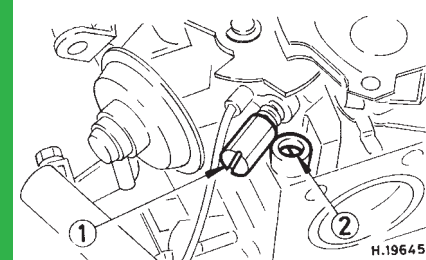
1: Idle speed 2: CO / Mixture



1108 cm³



1108 cm³



Weber TLF