

Capacity (cm ³) / number of cylinders		1294 / 4
Compression ratio / pressure	bar	9.5 / _
Oil pressure	bar	1.2 [3.6]
Oil temperature	°C	80
Valve clearance - inlet	mm	0.25
Valve clearance - exhaust	mm	0.30
Firing order		1-3-4-2
No 1 cylinder position		FE
Thermostat opening temperature	°C	88
Radiator cap pressure	bar	1.0

Idle speed - manual [auto]	rpm	650±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0 to 2.0
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		Bressel-Weber/Solex
Type / ref		B-W: 32 IBSH. S: 32 BISA
Main jet / needle		B-W: 140. S: 132
Injection pressure	bar	—
Pump pressure	bar	0.25
Octane rating	RON	97[E 95 RON]

Type		Electronic - Hall effect
Ignition coil		Bosch, Ducellier BTR01
Primary resistance	ohms	0.7
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch/Ducellier
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	8 BTDC @ 650
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	C016-D003
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	8 to 12 @ 1360
	° Crankshaft @ rpm	22 to 26 @ 2600
	° Crankshaft @ rpm	30 to 34 @ 4400
Vacuum range check	mbar	399 to 611
Maximum vacuum advance	° Crankshaft	10 to 14
Spark plugs		Eyquem/Champion
Type		FC52LS / C9YCX
Electrode gap	mm	0.80

Battery	V / CC / RC	12 / 210 / 65
Alternator voltage / full load current / engine rpm		13.8 to 14.8 / _ / 3000
Starter motor current / voltage - cranking	A / V	_
- locked	A / V	

Running gear			309, 1.3	1986 to 1991
Brakes -				
Front (min. friction material thickness)	mm	1.0		
Rear (min. friction material thickness)	mm	—		
Tyres				
Saloon	Size	145x13: 165/70x13		
Estate / Van	Size	—		
Pressure - front / rear - Saloon	bar	1.9 / 2.1		
- Estate / Van	bar	—		

Toe-in (+) / Toe-out (-)	mm [°]	+0.5/-0.52) F/W
Camber		-30'±30'
Castor		+2°±30'
King pin inclination		+10°15'±30'

Toe-in (+) / Toe-out (-)	mm [-]	+1.6±0.8 FW
Camber		-50'±30'

Torque wrench settings		309, 1.5	1988 to 1991
Cylinder head - stage 1	Nm	50	
- stage 2	Nm	70	
Cylinder head - stage 3	Nm	Warm up, then cool down	
- stage 4	Nm	Slacken, then 70	
Big-end bearings	Nm	38	
Main bearings	Nm	65	
Clutch cover	Nm	15	
Flywheel [driveplate]	Nm	55 LkC	
Front hubs	Nm	265	
Rear hubs	Nm	215	
Wheel nuts / bolts	Nm	85	
Spark plugs	Nm	20 to 30	

Capacities		309, 1.3	1988 to 1991
Engine oil & filter	litres	3.3	
Gearbox - 4-speed [5-speed]	litres	2.0	
Automatic transmission - refill	litres	—	
Final drive	litres	WT	
Cooling system	litres	6.6	
Fuel tank	litres	55	

Notes and Illustrations

A schematic diagram of a four-cylinder internal combustion engine. The engine block is shown with four cylinders. Each cylinder has two valves: an intake valve (IN) and an exhaust valve (EX). The valves are numbered 1 through 4. The intake ports are numbered 1 through 4, and the exhaust ports are numbered 1 through 4. The diagram also shows the timing belt and the crankshaft. The text 'H1191' is visible in the bottom right corner.

H19309

Weber, JBSU