

Engine & Cooling	Fuel	Ignition	Electrical	Running gear	Torque settings	Capacities	Notes & Illustrations
------------------	------	----------	------------	--------------	-----------------	------------	-----------------------



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.

MENU

HELP

Engine and cooling system 90, Coupé & 4x4 2.3 20V CAT 1988 to 1991

Type	7A (125kW) DOHC 20V	
Capacity (cm ³) / number of cylinders	2309 / 5	
Compression ratio / pressure	bar	10.0 / ≥8.0
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order	1-2-4-5-3	
No 1 cylinder position	TBE	
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.2 to 1.5

Fuel system 90, Coupé & 4x4 2.3 20V CAT 1988 to 1991

Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	≤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	Bosch	
Type / ref	MPI (Multi-point)	
Main jet / needle	—	
Injection pressure	bar	3.0
Pump pressure	bar	3.8 to 4.2
Octane rating	RON	95[U]

Ignition system 90, Coupé & 4x4 2.3 20V CAT 1988 to 1991

Type	Computerized	
Ignition coil	Bosch	
Primary resistance	ohms	0 to 1.0
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor	Bosch	
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation	Clockwise	
Ignition timing - basic [static	° Crankshaft @ rpm	Computer control N/A
V = Vacuum NV = No Vacuum	—	
Total ignition advance	° Crankshaft @ rpm	—
	° 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	
Type	BKUR7ET	
Electrode gap	mm	0.70 to 0.90

Electrical system 90, Coupé & 4x4 2.3 20V CAT 1988 to 1991

Battery	V / CC / RC	12 / _
Alternator voltage / full load current / engine rpm	12.5 to 14.5 / _ / 2000	
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear 90, Coupé & 4x4 2.3 20V CAT 1988 to 1991

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

Tyres		
Saloon	Size	195/60x14:205/50x15:205/60x15
Estate / Van	Size	—
Pressure - front / rear - Saloon	bar	2.1 / 2.1 ¹
- Estate / Van	bar	—

Front suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+10'±10']
Camber		-45'±30' ²
Castor		+1°15'±30' ³
King pin inclination		—

Rear suspension / wheel alignment

Toe-in (+) / Toe-out (-)	mm [°]	[+20'±20'].4x4: [+20'±10']
Camber		-1°±20'. 4x4: -45'±30'

Torque wrench settings 90, Coupé & 4x4 2.3 20V CAT 1988 to 1991

Cylinder head - stage 1	Nm	40 N
- stage 2	Nm	60
Cylinder head - stage 3	Nm	+ 90°
- stage 4	Nm	+ 90°
Big-end bearings	Nm	30 + 90°
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	30 + 90° N
Front hubs	Nm	265 LkC ⁴
Rear hubs	Nm	WSM ⁵
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	20

Capacities 90, Coupé & 4x4 2.3 20V CAT 1988 to 1991

Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.4. 4x4: 2.9
Automatic transmission - refill	litres	3.0
Final drive	litres	AT & 4x4: 0.75
Cooling system	litres	8.0
Fuel tank	litres	68. Coupé: 70

Notes and Illustrations

¹90: 2.3 / 2.3

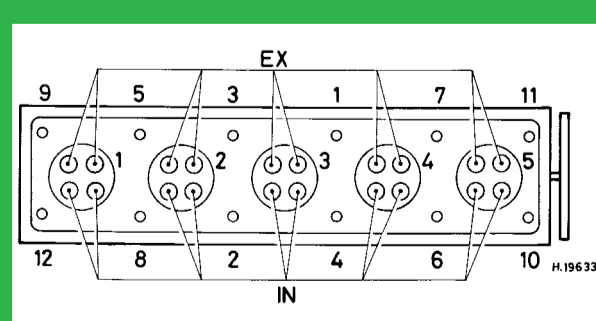
²Coupé & 4x4: -50'±30'

³Coupé & 4x4: +1°25'±30'

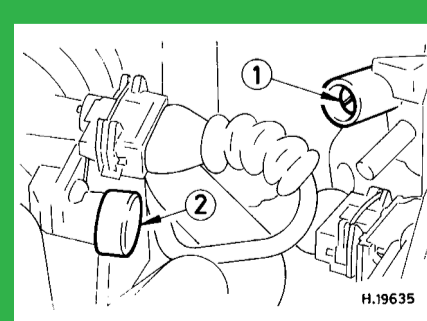
⁴PAS+4x4 with detachable wheel housing: M14: 120+ 90° M16: 200 + 90°

⁵4x4: 320

1: Idle speed 2: CO / Mixture



2309 cm³, 20V



MPI, 7A