

Engine & Cooling

Fuel

Ignition

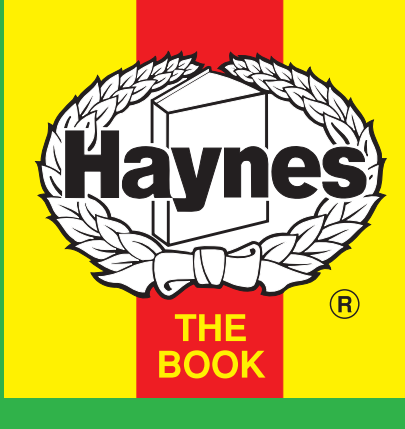
Electrical

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

200 4x4 Turbo CAT

1989 to 1991

Type		3B (162kW) DOHC 20V
Capacity (cm³) / number of cylinders		2226 / 5
Compression ratio / pressure	bar	9.3 / ≥7.0
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

200 4x4 Turbo CAT

1989 to 1991

Idle speed - manual [auto]	rpm	740 to 860 N/A
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	≤200
CO2 @ idle speed [3000 rpm] - see page VI	%	—
O2 @ idle speed [3000 rpm] - see page VI	%	—
Carburettor / fuel injection		Bosch
Type / ref		Motronic plus Turbo
Main jet / needle		—
Injection pressure	bar	2.4 to 2.7
Pump pressure	bar	3.0 to 3.2
Octane rating	RON	95[U]

Ignition system

200 4x4 Turbo CAT

1989 to 1991

Type		DME Motronic
Ignition coil		Bosch
Primary resistance	ohms	0.5 to 1.5
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	8 to 12 BTDC 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		Bosch
Type		F5DPOR
Electrode gap	mm	0.60 to 0.70

Electrical system

200 4x4 Turbo CAT

1989 to 1991

Battery	V / CC / RC	12 / 45Ah
Alternator voltage / full load current / engine rpm		12.5 to 14.5 / _ / 3000
Starter motor current / voltage - cranking	A / V	—
- locked	A / V	—

Running gear

200 4x4 Turbo CAT

1989 to 1991

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	7.0 with backing

Tyres		
Saloon	Size	205/60x15
Estate / Van	Size	205/60x15
Pressure - front / rear - Saloon	bar	2.1 / 2.1
- Estate / Van	bar	2.1 / 2.1

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+5'+5'-10']
Camber		-30'±30'
Castor		+50'±40'
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±10']
Camber		-15'±15'

Torque wrench settings

200 4x4 Turbo CAT

1989 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°
Front hubs	Nm	280
Rear hubs	Nm	360
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities

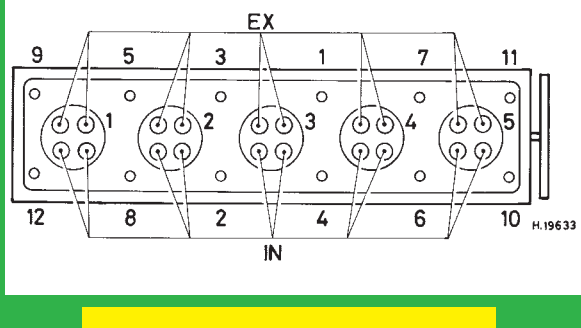
200 4x4 Turbo CAT

1989 to 1991

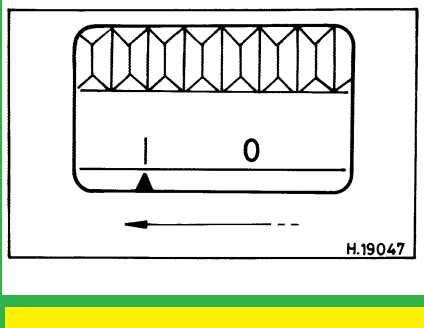
Engine oil & filter	litres	4.5
Gearbox - 4-speed [5-speed]	litres	2.6
Automatic transmission - refill	litres	3.0
Final drive	litres	Rear: 1.6
Cooling system	litres	8.5
Fuel tank	litres	80

Notes and Illustrations

—



2226 cm³, DOHC 20V



2226 cm³, DOHC 20V