

Engine & Cooling

Fuel

Ignition

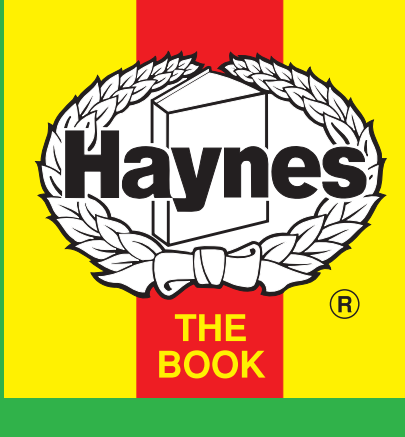
Electrical

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			Quattro 20V CAT	1989 to 1991
Type			RR (162kW) DOHC 20V	
Capacity (cm³) / number of cylinders			2226 / 5	
Compression ratio / pressure		bar	9.3 / _	
Oil pressure		bar	[5.3]	
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			Quattro 20V 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	_	
Pump pressure		bar	_	
Octane rating		RON	95[U]	
Ignition system			Quattro 20V CAT	1989 to 1991
Type			Motronic	
Ignition coil			Bosch	
Primary resistance		ohms	0.5 to 0.7	
Ballast resistor		ohms	_	
Voltage - Tmnl 15(+) to earth		V	_	
Distributor			Bosch	
Points gap (air gap)		mm	_	
Dwell angle		° (%)	_	
Condenser capacity		µF	_	
Rotation			Anticlockwise	
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			Quattro 20V CAT	1989 to 1991
Battery		V / CC / RC	12 / 300 / 63Ah	
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			Quattro 20V 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	215/50x15	
Estate / Van		Size	_	
Pressure - front / rear - Saloon		bar	2.2 / 2.2	
- Estate / Van		bar	_	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (-)		mm [°]	+0.5 to -1.0	
Camber			-50'±30'	
Castor			+1°30'+40'	
King pin inclination			_	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (-)		mm [°]	-1.0±1.0	
Camber			-30'±30'	
Torque wrench settings			Quattro 20V 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	280	
Wheel nuts / bolts		Nm	110	
Spark plugs		Nm	30	
Capacities			Quattro 20V CAT	1989 to 1991
Engine oil & filter		litres	4.5	
Gearbox - 4-speed [5-speed]		litres	3.2	
Automatic transmission - refill		litres	_	
Final drive		litres	Rear: 2.2	
Cooling system		litres	9.3	
Fuel tank		litres	90	

Notes and Illustrations

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