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 1980 to 1988
Type		WR (147kW) SOHC
Capacity (cm³) / number of cylinders		2144 / 5
Compression ratio / pressure	bar	7.0 / ≥7.0
Oil pressure	bar	[5.3]
Oil temperature	ºC	80
Valve clearance - inlet	mm	0.20 to 0.30[1]
Valve clearance - exhaust	mm	0.40 to 0.50[1]
Firing order		1-2-4-5-3
No 1 cylinder position		TBE
Thermostat opening temperature	ºC	87
Radiator cap pressure	bar	1.2 to 1.4

Fuel system

		Quattro 1980 to 1988
Idle speed - manual [auto]	rpm	800±50
Fast idle speed - manual [auto]	rpm	_
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.2
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		Bosch
Type / ref		K-Jetronic plus Turbo
Main jet / needle		_
Injection pressure	bar	3.6 to 4.0
Pump pressure	bar	5.5 to 6.0
Octane rating	RON	98[E 98 RON]

Ignition system

		Quattro 1980 to 1988
Type		FEI
Ignition coil		Bosch
Primary resistance	ohms	0.61 to 0.83
Ballast resistor	ohms	_
Voltage - Tmnl 15(+) to earth	V	_
Distributor		Bosch
Points gap (air gap)	mm	_
Dwell angle	º (%)	N/A
Condenser capacity	µF	_
Rotation		Anticlockwise
Ignition timing - basic [static	º Crankshaft @ rpm	[TDC] N/A
V = Vacuum NV = No Vacuum		_
Total ignition advance	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Centrifugal check.	º Crankshaft @ rpm	Computer control
	º Crankshaft @ rpm	_
	º Crankshaft @ rpm	_
Vacuum range check	mbar	Computer control
Maximum vacuum advance	º Crankshaft	_
Spark plugs		Bosch
Type		W4DP
Electrode gap	mm	0.80 to 0.90

Electrical system

		Quattro 1980 to 1988
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 1980 to 1988
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: 215/50x15
Estate / Van	Size	_
Pressure - front / rear - Saloon	bar	1.8 / 1.7
- Estate / Van	bar	_
Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[+5'to 10']
Camber		-50'±30'
Castor		+1°30'+40'
King pin inclination		_
Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [º]	[-10'±10']
Camber		-30'±30'

Torque wrench settings

		Quattro 1980 to 1988
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	50
Main bearings	Nm	65
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	Without shoulder: 75[2]
Front hubs	Nm	280
Rear hubs	Nm	280
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

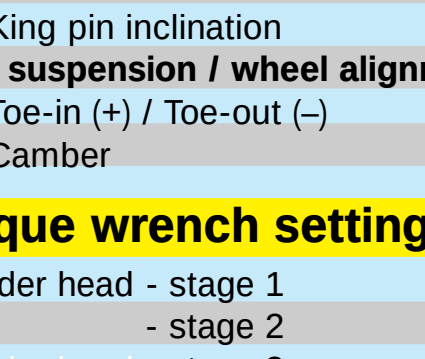
Capacities

		Quattro 1980 to 1988
Engine oil & filter	litres	4.0
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

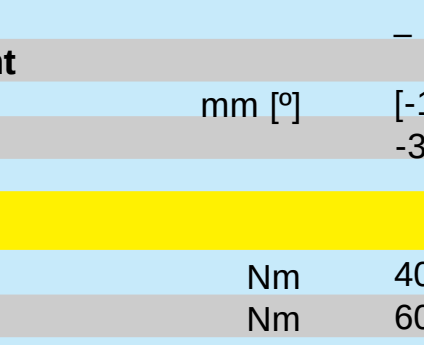
Notes and Illustrations

[1]**H. 8.85 ▶: 0: Hydraulic adjusters**
[2]**With shoulder: 30 + 90°**

1: Idle speed 2: CO / Mixture



2144 cm³, SOHC 10V



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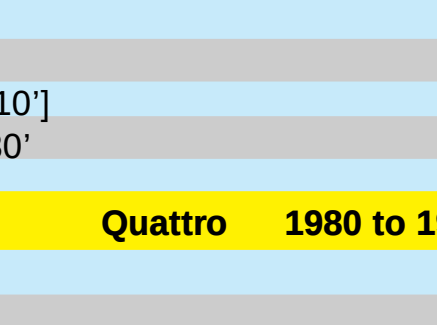
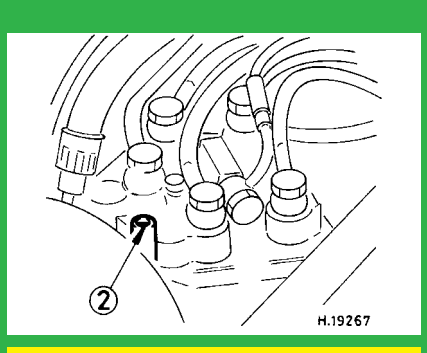


K-Jetronic



K-Jetronic