

VOLKSWAGEN

Passat 16V

1988 to 1992

Engine & Cooling

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Automotive Technical
DATA BOOK

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Engine and cooling system

Passat 16V

1988 to 1992

Type		KR. DOHC. 100kW
Capacity (cm ³) / number of cylinders		1781 / 4
Compression ratio / pressure	bar	10.0 / ≥7.5
Oil pressure	bar	[2.0]
Oil temperature	°C	80
Valve clearance - inlet	mm	0: Hyd.
Valve clearance - exhaust	mm	0: Hyd.
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	85
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

Passat 16V

1988 to 1992

Idle speed - manual [auto]	rpm	1000±50
Fast idle speed - manual [auto]	rpm	—
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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
Main jet / needle		—
Injection pressure	bar	3.5 to 4.1
Pump pressure	bar	4.7 to 5.4
Octane rating	RON	98[E 98 RON]

Ignition system

Passat 16V

1988 to 1992

Type		FEI
Ignition coil		—
Primary resistance	ohms	0.6 to 0.8
Ballast resistor	ohms	—
Voltage - Tmnl 15(+) to earth	V	—
Distributor		Bosch
Points gap (air gap)	mm	—
Dwell angle	° (%)	—
Condenser capacity	µF	—
Rotation		—
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ 1000±50
V = Vacuum NV = No Vacuum		V
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/Champion
Type		F6DTC / C6BYC
Electrode gap	mm	0.70 to 0.90

Electrical system

Passat 16V

1988 to 1992

Battery	V / CC / RC	12 / 265 / 80
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

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

Tyres		
Saloon	Size	195/60x14: 195/55x15:205/50x15
Estate / Van	Size	195/60x14:195/55x15:205/50x15
Pressure - front / rear - Saloon	bar	2.4 / 2.4
- Estate / Van	bar	2.4 / 2.4

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0±10°]
Camber		-1°20'±20'
Castor		+1°40'±30' N/A
King pin inclination		—

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+25'±15']
Camber		-1°40'±20'

Torque wrench settings

Passat 16V

1988 to 1992

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

Capacities

Passat 16V

1988 to 1992

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75
Cooling system	litres	6.5
Fuel tank	litres	70

Notes and Illustrations

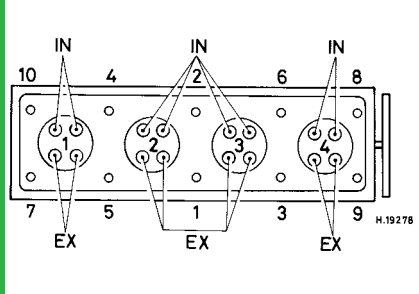
1

2

Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

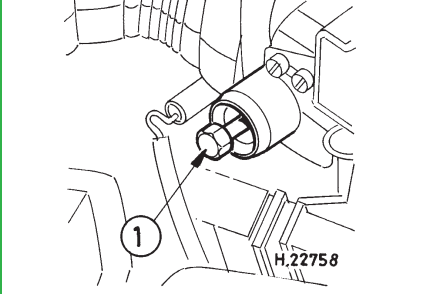
2: CO / Mixture



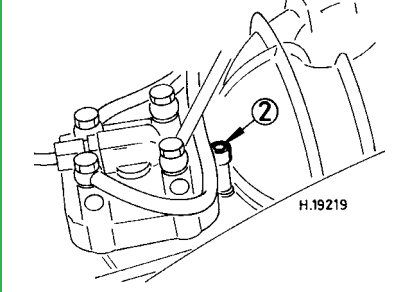
1781 cm³, 16V



1781 cm³, KR



K-Jetronic, KR



K-Jetronic, KR