

VOLKSWAGEN

Passat 2.2

1985 to 1988

Engine & Cooling

Fuel

Ignition

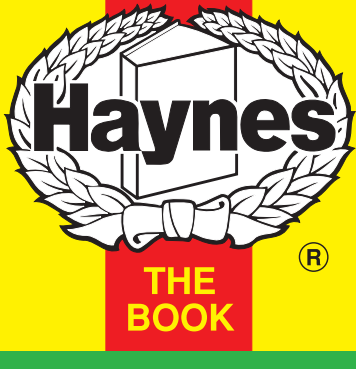
Electrical

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

Passat 2.2

1985 to 1988

Type		KV. 100kW
Capacity (cm ³) / number of cylinders		2226 / 5
Compression ratio / pressure	bar	10.0 / ≥9.0
Oil pressure	bar	1.0 [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 1.4

Fuel system

Passat 2.2

1985 to 1988

Idle speed - manual [auto]	rpm	750 to 850
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
Main jet / needle		–
Injection pressure	bar	3.0 to 4.1
Pump pressure	bar	4.7 to 5.4
Octane rating	RON	98[E 98 RON] ¹

Ignition system

Passat 2.2

1985 to 1988

Type		TCI-H
Ignition coil		Bosch
Primary resistance	ohms	0.52 to 0.76
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	18±1 BTDC @ 750 to 850 ¹
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
	° Crankshaft @ rpm	–
Centrifugal check.	° Crankshaft @ rpm	0 @ 1700 to 1900
	° Crankshaft @ rpm	7 to 10 @ 2900
	° Crankshaft @ rpm	13 to 15 @ 6100
Vacuum range check	mbar	100 to 360
Maximum vacuum advance	° Crankshaft	11 to 15
Spark plugs		Bosch/Champion
Type		W6DTC / N7BYC
Electrode gap	mm	0.70 to 0.90

Electrical system

Passat 2.2

1985 to 1988

Battery	V / CC / RC	12 / 220 / 75
Alternator voltage / full load current / engine rpm		–
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	–

Running gear

Passat 2.2

1985 to 1988

Brakes -		
Front (min. friction material thickness)	mm	7.0
Rear (min. friction material thickness)	mm	2.5

Tyres		
Saloon	Size	185/70x13:195/60x14
Estate / Van	Size	185/70x13
Pressure - front / rear - Saloon	bar	1.9 / 1.9
- Estate / Van	bar	1.9 / 1.9

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+10'±10']
Camber		-40'±30'
Castor		+30'[PAS 84 ►: +1°25']±30'
King pin inclination		–

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

Torque wrench settings

Passat 2.2

1985 to 1988

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
Clutch cover	Nm	25
Flywheel [driveplate]	Nm	75
Front hubs	Nm	230
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	30

Capacities

Passat 2.2

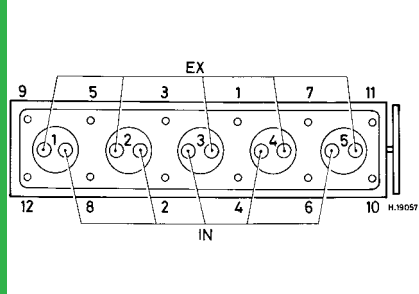
1985 to 1988

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.4
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 1.0
Cooling system	litres	8.0
Fuel tank	litres	68

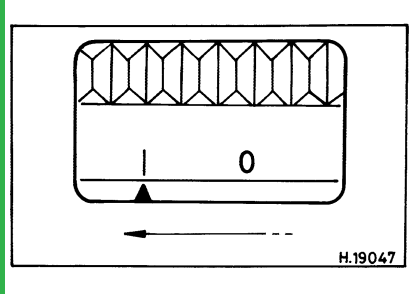
Notes and Illustrations

¹[E 95 RON], 10-1 BTDC @ 750 to 850

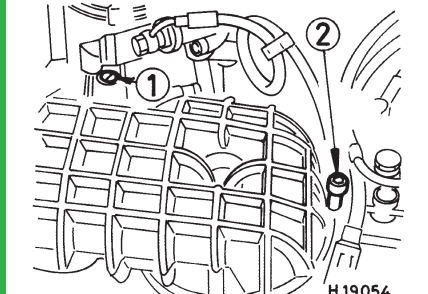
1: Idle speed 2: CO / Mixture



2226 cm³



2226 cm³



K-Jetronic, KV