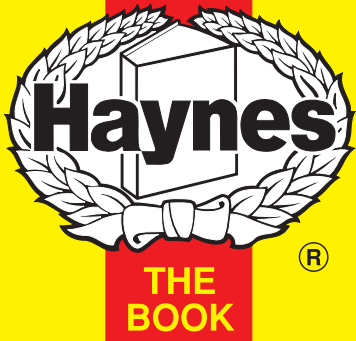


VOLKSWAGEN

Golf/Jetta 1.8i

1987 to 1992

Engine & CoolingFuelIgnitionElectricalRunning gearTorque settingsCapacitiesNotes & 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.

MENUHELP

Engine and cooling system

Golf/Jetta 1.8i

1987 to 1992

Type		PB. 82kW
Capacity (cm <sup>3</sup> ) / 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 1.5¹

Fuel system

Golf/Jetta 1.8i

1987 to 1992

Idle speed - manual [auto]	rpm	750 to 850
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	1.0±0.5
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		Volkswagen
Type / ref		Digifant
Main jet / needle		–
Injection pressure	bar	2.5
Pump pressure	bar	3.0
Octane rating	RON	98[E 98 RON]²

Ignition system

Golf/Jetta 1.8i

1987 to 1992

Type		Digifant
Ignition coil		Bosch
Primary resistance	ohms	0.52 to 0.76³
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	6±1 BTDC @ 2000 to 2500⁴
V = Vacuum NV = No Vacuum		–
Total ignition advance	° Crankshaft @ rpm	30±3 BTDC @ 2300⁵
	° 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		W7DTC / N7BYC⁶
Electrode gap	mm	0.70 to 0.90⁶

Electrical system

Golf/Jetta 1.8i

1987 to 1992

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

Golf/Jetta 1.8i

1987 to 1992

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

Tyres		
Saloon	Size	175/70x13:185/60x14:185/55x15
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	2.0 / 1.8
- Estate / Van	bar	–

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0±10']
Camber		-35'±20'
Castor		+1°35'±30' N/A
King pin inclination		–

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+25'±15']⁷
Camber		-1°40'±20'⁸

Torque wrench settings

Golf/Jetta 1.8i

1987 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	65⁹
Clutch cover	Nm	20
Flywheel [driveplate]	Nm	60 + 90° N
Front hubs	Nm	230
Rear hubs	Nm	WSM
Wheel nuts / bolts	Nm	110
Spark plugs	Nm	25

Capacities

Golf/Jetta 1.8i

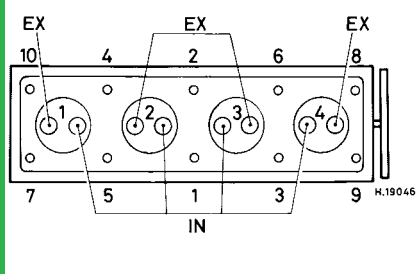
1987 to 1992

Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	–
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	55

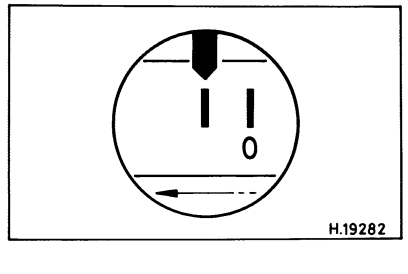
Notes and Illustrations

- ¹08.89 ►: 1.3 to 1.5
- ²[E 95 RON], 1 tank of leaded fuel every 5th filling
- ³08.87 ►: 0.6 to 0.8
- ⁴80°C, temperature sender plug detached
- ⁵80°C, temperature sender plug attached
- ⁶Coil with grey sticker: W7DCO / N7YCX, gap: 0.70 to 0.80
- ⁷Chassis no. 1GLW568 162 or 1LB090 145 ►: [+20' ± 10']
- ⁸Chassis no. 1GLW568 162 or 1GLB090 145 ►: -1°30'±10'
- ⁹Replace with fully threaded shank bolts: 65 + 90°

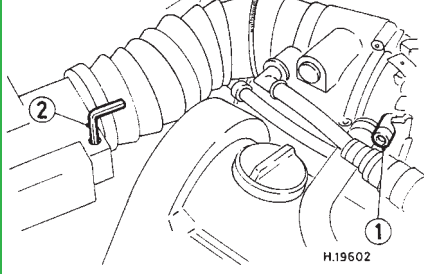
1: Idle speed2: CO / Mixture



1781 cm³, 8V



1781 cm³, 8V



Digifant, PB