

VOLKSWAGEN

Golf/Jetta 1.8i

1984 to 1988

Engine & Cooling

Fuel

Ignition

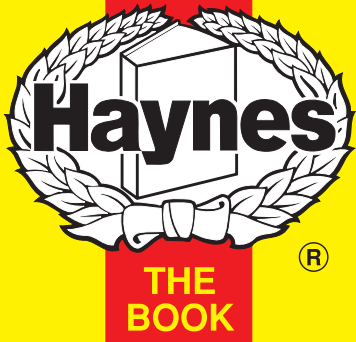
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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Engine and cooling system

Golf/Jetta 1.8i

1984 to 1988

Type		EV. GZ. 82kW
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	0.15 to 0.25 ¹
Valve clearance - exhaust	mm	0.35 to 0.45 ¹
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

Golf/Jetta 1.8i

1984 to 1988

Idle speed - manual [auto]	rpm	950±50. 1985 ►: 900±100
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
CO ₂ @ idle speed [3000 rpm] - see page VI	%	—
O ₂ @ 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 ²
Octane rating	RON	98[E 98 RON] ³

Ignition system

Golf/Jetta 1.8i

1984 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	6±1 BTDC @ idle ³
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
	° Crankshaft @ rpm	—
Centrifugal check.	° Crankshaft @ rpm	9 to 14 @ 2200
	° Crankshaft @ rpm	17 to 21 @ 4000
	° Crankshaft @ rpm	20 to 24 @ 6000
Vacuum range check	mbar	60 to 260 ⁴
Maximum vacuum advance	° Crankshaft	13 to 17 ⁵
Spark plugs		Bosch/Champion
Type		W7DTC / N7BYC
Electrode gap	mm	0.70 to 0.90

Electrical system

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1984 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

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1984 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	175/70x13: 185/60x14
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']
Camber		-1°40'±20'

Torque wrench settings

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1984 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 ⁶
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

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1984 to 1988

Engine oil & filter	litres	3.5. 86 ►: 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

¹86 ►: 0: Hydraulic adjusters

²3.86 ►: 5.2 to 5.9

³[E 95 RON], 0±1 BTDC @ idle, not GZ

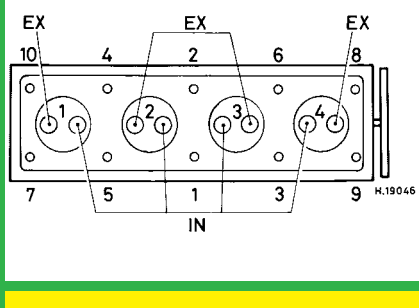
⁴85 ►: 60 to 340. EZ: 260 to 380

⁵GZ: 4 to 8

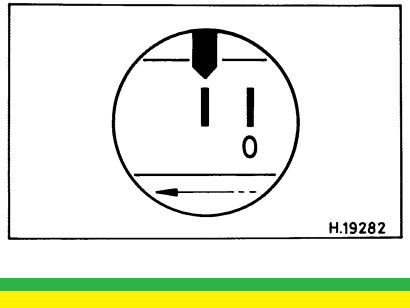
⁶Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

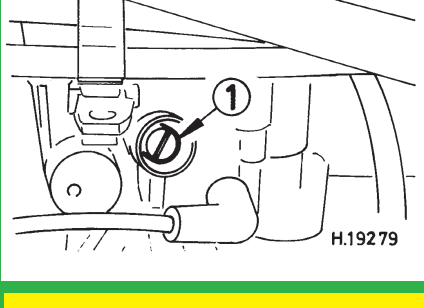
2: CO / Mixture



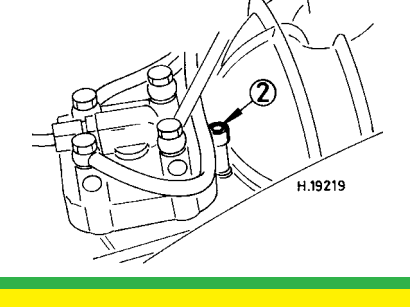
1781 cm³, 8V



1781 cm³, 8V



K-Jetronic, EV / GZ



K-Jetronic