

VOLKSWAGEN

Golf/Jetta 1.8i & CAT

1984 to 1992

Engine & Cooling

Fuel

Ignition

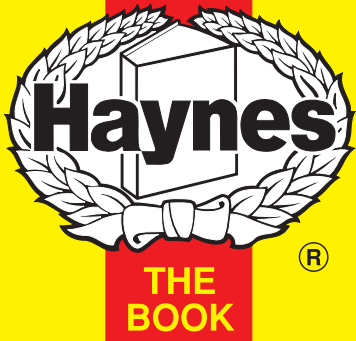
Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



Automotive Technical
DATA BOOK

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HELP

Engine and cooling system			Golf/Jetta 1.8i & CAT	1984 to 1992
Type			GX. 66kW	
Capacity (cm³) / number of cylinders			1781 / 4	
Compression ratio / pressure	bar		9.0 / ≥7.0	
Oil pressure	bar		[2.0]	
Oil temperature	°C		80	
Valve clearance - inlet	mm		0.15 to 0.25¹	
Valve clearance - exhaust	mm		0.35 to 0.45¹	
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 & CAT	1984 to 1992
Idle speed - manual [auto]	rpm		900±30	
Fast idle speed - manual [auto]	rpm		–	
CO @ idle speed [3000 rpm] - see page VI	%		1.0±0.5. CAT: 0.3 to 1.2	
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. 86 ►: KE-Jetronic	
Main jet / needle			–	
Injection pressure	bar		3.5 to 4.1	
Pump pressure	bar		5.2 to 5.6	
Octane rating	RON		91[E 91 RON]²	
Ignition system			Golf/Jetta 1.8i & CAT	1984 to 1992
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 @ 900±30	
V = Vacuum NV = No Vacuum			NV	
Total ignition advance	° Crankshaft @ rpm		–	
	° Crankshaft @ rpm		–	
	° Crankshaft @ rpm		–	
Centrifugal check.	° Crankshaft @ rpm		0 @ 1100 to 1350	
	° Crankshaft @ rpm		12 to 17 @ 2600	
	° Crankshaft @ rpm		23 to 27 @ 6000	
Vacuum range check	mbar		100 to 260	
Maximum vacuum advance	° Crankshaft		10 to 14	
Spark plugs			Bosch/Champion	
Type			W7DTC / N7BYC	
Electrode gap	mm		0.70 to 0.90	
Electrical system			Golf/Jetta 1.8i & CAT	1984 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 & CAT	1984 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			-30'±20'	
Castor			+1°30'±30' N/A	
King pin inclination			–	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (-)	mm [°]		[+25'±15']³	
Camber			-1°40'±20'⁴	
Torque wrench settings			Golf/Jetta 1.8i & CAT	1984 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		65⁵	
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 & CAT	1984 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

¹86 ►: 0: Hydraulic adjusters

²CAT: 91 [U]

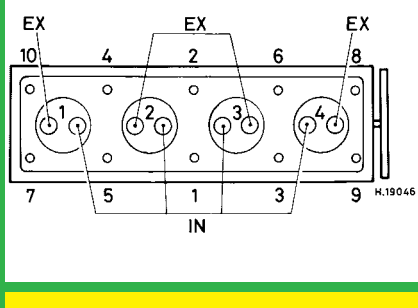
³Chassis no 1GLW568 162 or 1GLB090 145 ►: [+20'±10']

⁴Chassis no. 1G LW568 162 or 1G LB090 145 ►: -1°30'±10'

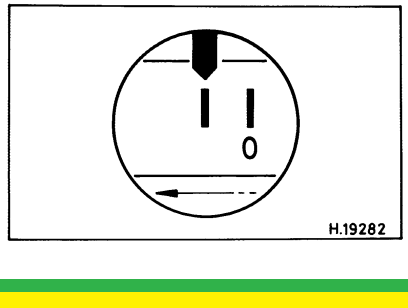
⁵Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

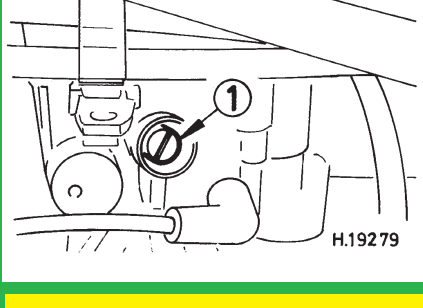
2: CO / Mixture



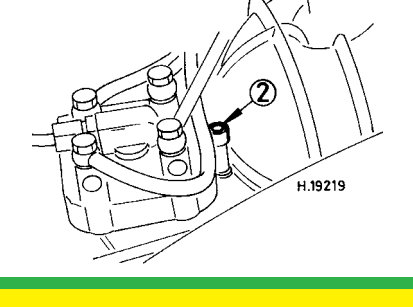
1781 cm³, 8V



1781cm³, 8V



K-Jetronic, GX



K / KE-Jetronic