

VOLKSWAGEN

Golf/Jetta 16V CAT

1986 to 1992

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

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Type		PL. 95kW
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	1.3 to 1.5

Fuel system

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Idle speed - manual [auto]	rpm	850 to 950
Fast idle speed - manual [auto]	rpm	–
CO @ idle speed [3000 rpm] - see page VI	%	0.2 to 1.2 N/A
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		KE-Jetronic
Main jet / needle		–
Injection pressure	bar	3.0 to 4.1
Pump pressure	bar	5.2 to 5.6
Octane rating	RON	95[U]

Ignition system

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Type		FEI
Ignition coil		Bosch
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		Clockwise
Ignition timing - basic [static	° Crankshaft @ rpm	6±1 BTDC @ 850 to 950
V = Vacuum NV = No Vacuum		–
Total ignition advance	° Crankshaft @ rpm	4 to 8 BTDC @ 850 to 950
	° 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
Type		F6DSR
Electrode gap	mm	0.70 to 0.90

Electrical system

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

Tyres		
Saloon	Size	185/60x14:185/55x15:195/50x15
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	2.0 / 1.8¹
- Estate / Van	bar	–

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0±10¹]
Camber		-40'±20'
Castor		+1°35'±30' N/A
King pin inclination		–

Rear suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[+25'±15']²
Camber		-1°40'±20³

Torque wrench settings

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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	65⁴
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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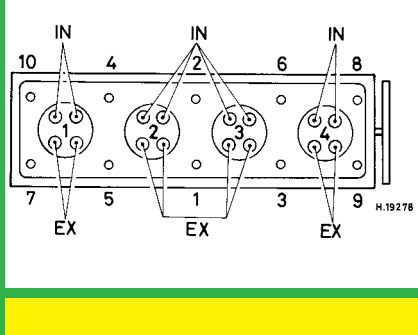
Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	–
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	55

Notes and Illustrations

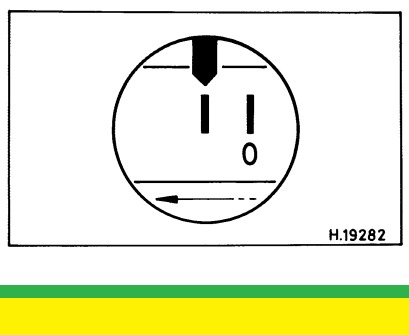
- ¹185/55x15 and all 90 ►: 2.2 / 2.0
- ²Chassis no. 1G LW568 162 or 1G LB090 145 ►: [+20'±10¹]
- ³Chassis no. 1G LW568 162 or 1G LB090 145 ►: -1°30'±10¹
- ⁴Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

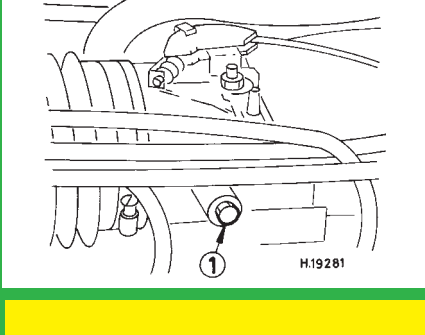
2: CO / Mixture



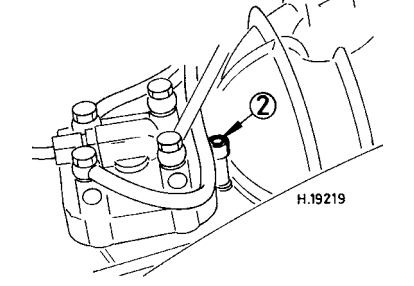
1781 cm³, 16V



1781 cm³, 16V



KE-Jetronic, PL



KE-Jetronic