

Automotive Technical

DATA BOOK

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HELP

Engine and cooling system

Golf/Jetta 16V

1985 to 1992

Type		KR. 102kW. DOHC 16V
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

Golf/Jetta 16V

1985 to 1992

Idle speed - manual [auto]	rpm	1000±50
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		Bosch
Type / ref		K-Jetronic
Main jet / needle		–
Injection pressure	bar	–
Pump pressure	bar	4.7 to 5.4
Octane rating	RON	98[E 98 RON]

Ignition system

Golf/Jetta 16V

1985 to 1992

Type		FEI
Ignition coil		Bosch
Primary resistance	ohms	0.52 to 0.80
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 @ 1000±50
V = Vacuum NV = No Vacuum		V
Total ignition advance	° Crankshaft @ rpm	–
	° 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		F6DTC / C6BYC
Electrode gap	mm	0.70 to 0.90

Electrical system

Golf/Jetta 16V

1985 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 16V

1985 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	185/60x14:185/55x15:195/50x15
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	2.0 / 1.8 ¹
- Estate / Van	bar	–

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[0±10']
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'±20' ³

Torque wrench settings

Golf/Jetta 16V

1985 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	65 ⁴
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 16V

1985 to 1992

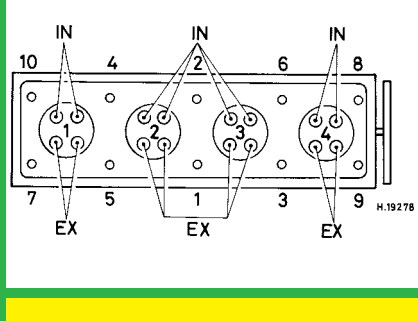
Engine oil & filter	litres	4.0
Gearbox - 4-speed [5-speed]	litres	2.0
Automatic transmission - refill	litres	–
Final drive	litres	WT
Cooling system	litres	6.5
Fuel tank	litres	55

Notes and Illustrations

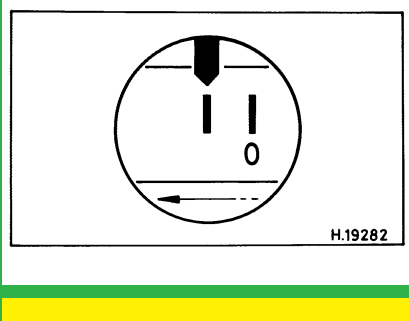
- ¹185/55x15 and all 90 ►: 2.2 / 2.0
- ²Chassis no. 1G LW568 162 or 1G LB090 145 ►: [+20'±10']
- ³Chassis no. 1G LW568 162 or 1G LB090 145 ►: -1°30'±10'
- ⁴Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

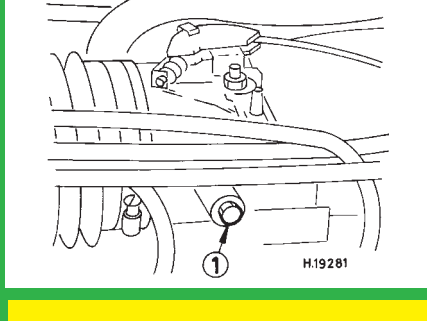
2: CO / Mixture



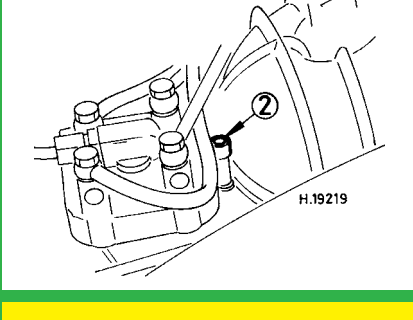
1781 cm³, 16V



1781 cm³, 16V



K-Jetronic, KR



K-Jetronic