

Automotive Technical

DATA BOOK

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HELP

Engine and cooling system

Golf/Cabrio/Scirocco 1.8

1982 to 1992

Type		DX. 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	0.20±0.05 ¹
Valve clearance - exhaust	mm	0.40±0.05 ¹
Firing order		1-3-4-2
No 1 cylinder position		TBE
Thermostat opening temperature	°C	87
Radiator cap pressure	bar	1.2 to 1.5

Fuel system

Golf/Cabrio/Scirocco 1.8

1982 to 1992

Idle speed - manual [auto]	rpm	950±50. 9.84 ►: 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	M12: 3.5 to 4.1 ²
Pump pressure	bar	4.7 to 5.4 ³
Octane rating	RON	98[E 98 RON] ⁴

Ignition system

Golf/Cabrio/Scirocco 1.8

1982 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 @ idle ⁴
V = Vacuum NV = No Vacuum		NV
Total ignition advance	° Crankshaft @ rpm	4 to 8 BTDC @ idle
	° Crankshaft @ rpm	UL: 0±2 BTDC @ idle
	° 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 ⁵
Maximum vacuum advance	° Crankshaft	13 to 17
Spark plugs		Bosch/Champion
Type		W7DTC / N7BYC ⁶
Electrode gap	mm	0.70 to 0.90 ⁶

Electrical system

Golf/Cabrio/Scirocco 1.8

1982 to 1992

Battery	V / CC / RC	12 / 175 / 60
Alternator voltage / full load current / engine rpm		–
Starter motor current / voltage - cranking	A / V	–
- locked	A / V	–

Running gear

Golf/Cabrio/Scirocco 1.8

1982 to 1992

Brakes -		
Front (min. friction material thickness)	mm	7.0 with backing
Rear (min. friction material thickness)	mm	5 riveted. 3.5 bonded

Tyres		
Saloon	Size	175/70x13: 185/60x14
Estate / Van	Size	–
Pressure - front / rear - Saloon	bar	1.7 / 1.7 ⁷
- Estate / Van	bar	–

Front suspension / wheel alignment		
Toe-in (+) / Toe-out (–)	mm [°]	[-5' to -30']
Camber		+20'±20'
Castor		+1°50'±20'
King pin inclination		–

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

Torque wrench settings

Golf/Cabrio/Scirocco 1.8

1982 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 ⁸
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	20

Capacities

Golf/Cabrio/Scirocco 1.8

1982 to 1992

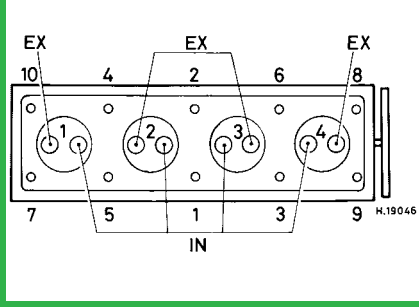
Engine oil & filter	litres	3.5. 8.85 ►: 4.0
Gearbox - 4-speed [5-speed]	litres	1.5 [2.0]
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75
Cooling system	litres	6.5
Fuel tank	litres	45. 2.84 ►: 55

Notes and Illustrations

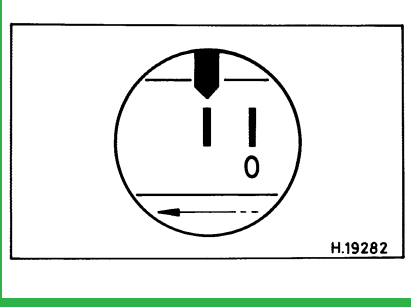
- ¹86 ►: 0: Hydraulic adjusters
- ²M10 injectors: 4.0 to 4.6
- ³8.86 ►: 5.2 to 5.9
- ⁴[E 95 RON], 0±1 BTDC @ idle
- ⁵8.84 ►: 60 to 340
- ⁶8.84 ►: W6DO / N7YCX, gap: 0.80 to 0.90
- ⁷Scirocco: 2.0 / 1.8. Cabrio: 1.9 / 1.9
- ⁸Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

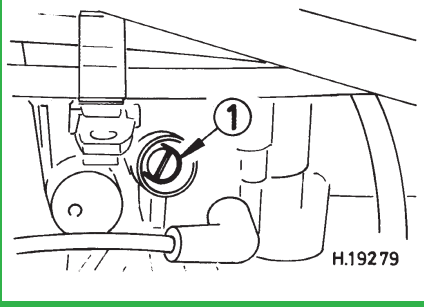
2: CO / Mixture



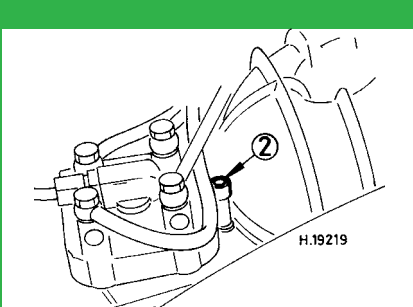
1781 cm³



1781 cm³



K-Jetronic



K-Jetronic