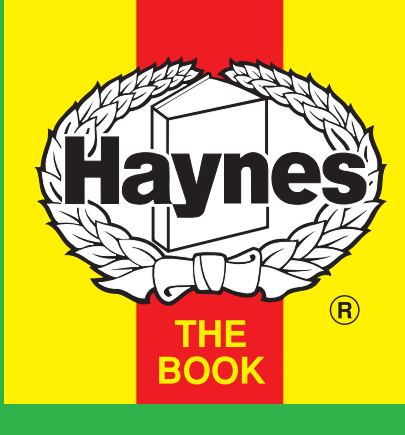




Automotive Technical

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

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

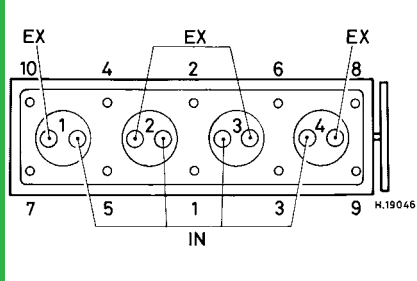
Engine oil & filter	litres	3.5. 8.85 ►: 4.0
Gearbox - 4-speed [5-speed]	litres	1.5 [2.0]
Automatic transmission - refill	litres	3.0
Final drive	litres	AT: 0.75
Cooling system	litres	6.5
Fuel tank	litres	45. 2.84 ►: 55

Notes and Illustrations

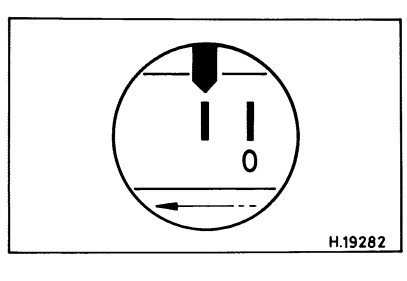
- ¹86 ►: 0: Hydraulic adjusters
- ²M10 injectors: 4.0 to 4.6
- ³8.86 ►: 5.2 to 5.9
- ⁴[E 95 RON], 0±1 BTDC @ idle
- ⁵8.84 ►: 60 to 340
- ⁶8.84 ►: W6DO / N7YC_X, gap: 0.80 to 0.90
- ⁷Scirocco: 2.0 / 1.8. Cabrio: 1.9 / 1.9
- ⁸Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

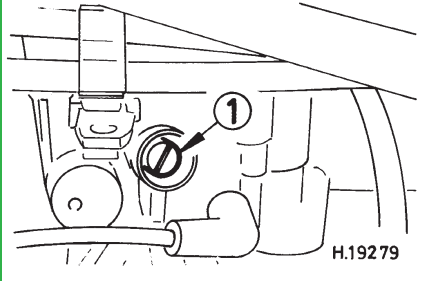
2: CO / Mixture



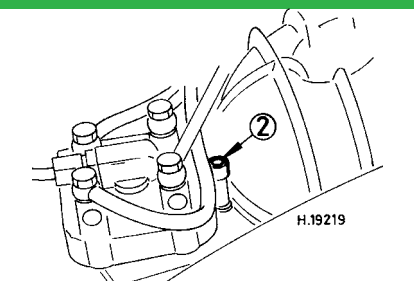
1781 cm³



1781 cm³



K-Jetronic



K-Jetronic