

VOLKSWAGEN

Golf/Scirocco/Caddy 1.6

1983 to 1994

Engine & Cooling

Fuel

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Automotive Technical
DATA BOOK

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Engine and cooling system			Golf/Scirocco/Caddy 1.6	1983 to 1994
Type			EW. 55kW	
Capacity (cm ³) / number of cylinders			1595 / 4	
Compression ratio / pressure		bar	9.0 / ≥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/Scirocco/Caddy 1.6	1983 to 1994
Idle speed - manual [auto]		rpm	750±50. C/b ignition: 950±50	
Fast idle speed - manual [auto]		rpm	3000±200	
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			Solex/Pierburg	
Type / ref			2E2 027 129 015G/J/H	
Main jet / needle			110, 127.5 [AT: 107.5, 127.5]	
Injection pressure		bar	—	
Pump pressure		bar	0.20 to 0.25	
Octane rating		RON	91[E 91 RON]	
Ignition system			Golf/Scirocco/Caddy 1.6	1983 to 1994
Type			TCI-H ²	
Ignition coil			Bosch	
Primary resistance		ohms	0.5 to 0.8 [C/b: 1.7 to 2.1]	
Ballast resistor		ohms	—	
Voltage - Tmnl 15(+) to earth		V	—	
Distributor			Bosch	
Points gap (air gap)		mm	C/b: 0.40	
Dwell angle		° (%)	C/b only: 47±3 (53±3)	
Condenser capacity		µF	—	
Rotation			Clockwise	
Ignition timing - basic [static		° Crankshaft @ rpm	18±1 BTDC @ idle	
V = Vacuum NV = No Vacuum			V	
Total ignition advance		° Crankshaft @ rpm	—	
		° Crankshaft @ rpm	—	
		° Crankshaft @ rpm	—	
Centrifugal check.		° Crankshaft @ rpm	0 @ 850 to 1200	
		° Crankshaft @ rpm	4 to 8 @ 1600	
		° Crankshaft @ rpm	27 to 31 @ 4500	
Vacuum range check		mbar	160 to 310	
Maximum vacuum advance		° Crankshaft	13 to 17 ³	
Spark plugs			Bosch/Champion	
Type			W7DO / N79Y ⁴	
Electrode gap		mm	0.60 to 0.80 ⁴	
Electrical system			Golf/Scirocco/Caddy 1.6	1983 to 1994
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/Scirocco/Caddy 1.6	1983 to 1994
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	155x13: 175/70x13: 185/60x14	
Estate / Van		Size	165x13	
Pressure - front / rear - Saloon		bar	1.7 / 1.7 ⁵	
		- Estate / Van	bar	
			1.8 / 2.7 ⁶	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	[-5' to -30']	
Camber			+20'±30'	
Castor			+1°50'±20'	
King pin inclination			—	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	[+20'±20'] Caddy: [0±1°]	
Camber			-1°15'±35'. Caddy: 0±10'	
Torque wrench settings			Golf/Scirocco/Caddy 1.6	1983 to 1994
Cylinder head - stage 1		Nm	40	
- stage 2		Nm	60	
Cylinder head - stage 3		Nm	+ 90°	
- stage 4		Nm	+ 90°	
Big-end bearings		Nm	M8: 30 + 90° ⁷	
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	30	
Capacities			Golf/Scirocco/Caddy 1.6	1983 to 1994
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. Caddy: 60	

Notes and Illustrations

¹86 ►: 0: Hydraulic adjusters

²Caddy: Contact breaker

³Caddy: 14 to 16

⁴9.84 ►: W8DTC / N9BYC4,gap 0.90 to 1.10 CIS: W8DC/N9YC, 0.60 to 0.80

⁵Scirocco: 1.8 / 1.8. Cabrio: 1.9 / 1.9

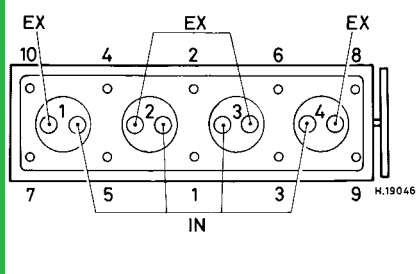
⁶Reinforced tyres: 1.8 / 2.9

⁷M9: 45

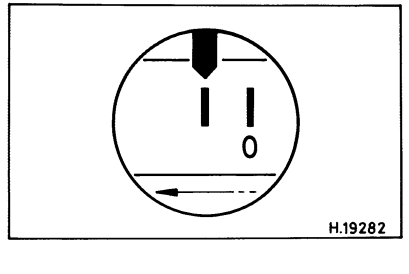
⁸Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

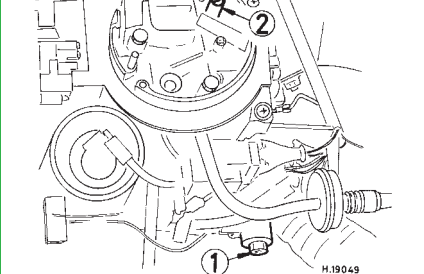
2: CO / Mixture



1595 cm³



1595 cm³



Solex / Pierburg 2E2