

VOLKSWAGEN

Golf/Jetta 1.8i CAT

1988 to 1992

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

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Automotive Technical  
DATA BOOK

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Engine and cooling system			Golf/Jetta 1.8i CAT	1988 to 1992
Type			1P. 66kW, later 72kW	
Capacity (cm³) / 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 1.8i CAT	1988 to 1992
Idle speed - manual [auto]		rpm	800±50, temp sender plug on	
Fast idle speed - manual [auto]		rpm	–	
CO @ idle speed [3000 rpm] - see page VI		%	0.7±0.4	
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			Volkswagen	
Type / ref			Digifant	
Main jet / needle			–	
Injection pressure		bar	2.5	
Pump pressure		bar	3.0	
Octane rating		RON	91[U]	
Ignition system			Golf/Jetta 1.8i CAT	1988 to 1992
Type			Digifant	
Ignition coil			Bosch	
Primary resistance		ohms	Grey sticker: 0.6 to 0.8¹	
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 @ 2000 to 2500²	
V = Vacuum NV = No Vacuum			–	
Total ignition advance		° Crankshaft @ rpm	30±3 BTDC @ 2300³	
		° 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			W7DCO / N7YCX⁴	
Electrode gap		mm	0.70 to 0.80⁴	
Electrical system			Golf/Jetta 1.8i CAT	1988 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 1.8i CAT	1988 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	175/70x13:185/60x14:185/55x15	
Estate / Van		Size	–	
Pressure - front / rear - Saloon		bar	2.0 / 1.8	
- Estate / Van		bar	–	
Front suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	[0±10']	
Camber			-30'±20'	
Castor			+1°30'±30' N/A	
King pin inclination			–	
Rear suspension / wheel alignment				
Toe-in (+) / Toe-out (–)		mm [°]	[+25'±15']⁵	
Camber			-1°40'±20'⁶	
Torque wrench settings			Golf/Jetta 1.8i CAT	1988 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	65⁷	
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 1.8i CAT	1988 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

<sup>1</sup>Coil with green sticker: 0.52 to 0.76

<sup>2</sup>80°C, temperature sender plug detached

<sup>3</sup>80°C, temperature sender plug attached

<sup>4</sup>Coil with green sticker: W7DTC/N7BYC, gap: 0.70 to 0.90

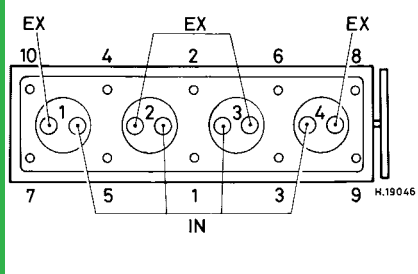
<sup>5</sup>Chassis no. 1G LW568 162 or 1G LB090 145 ►: [+20'±10']

<sup>6</sup>Chassis no. 1G LW568 162 or 1G LB090 145 ►: -1°30'±10'

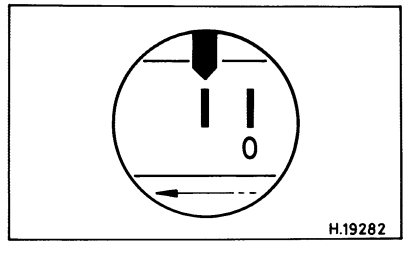
<sup>7</sup>Replace with fully threaded shank bolts: 65 + 90°

1: Idle speed

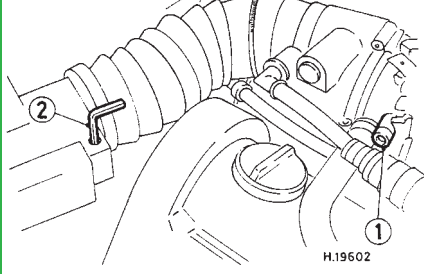
2: CO / Mixture



1781 cm<sup>3</sup>, 8V



1781 cm<sup>3</sup>, 8V



Digifant, 1P