

VOLKSWAGEN

Golf/Jetta 1.8 CAT

1986 to 1992

Engine & Cooling

Fuel

Ignition

Electrical

Running gear

Torque settings

Capacities

Notes & Illustrations



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/Jetta 1.8 CAT

1986 to 1992

|                                                   |     |             |
|---------------------------------------------------|-----|-------------|
| Type                                              |     | RH. 62kW    |
| Capacity (cm <sup>3</sup> ) / 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 | 1.2 to 1.5  |

Fuel system

Golf/Jetta 1.8 CAT

1986 to 1992

|                                           |     |                |
|-------------------------------------------|-----|----------------|
| Idle speed - manual [auto]                | rpm | 750±75         |
| Fast idle speed - manual [auto]           | rpm | 3000±200       |
| CO @ idle speed [3000 rpm] - see page VI  | %   | 1.5±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            |
| Main jet / needle                         |     | 102.5, 125     |
| Injection pressure                        | bar | —              |
| Pump pressure                             | bar | 0.20 to 0.25   |
| Octane rating                             | RON | 95[U]          |

Ignition system

Golf/Jetta 1.8 CAT

1986 to 1992

|                                 |                    |                                       |
|---------------------------------|--------------------|---------------------------------------|
| Type                            |                    | TCI-H                                 |
| Ignition coil                   |                    | Bosch                                 |
| Primary resistance              | ohms               | Grey sticker: 0.6 to 0.8 <sup>1</sup> |
| 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 | 18±1 BTDC @ 750±75                    |
| V = Vacuum NV = No Vacuum       |                    | V                                     |
| Total ignition advance          | ° Crankshaft @ rpm | —                                     |
|                                 | ° Crankshaft @ rpm | —                                     |
|                                 | ° Crankshaft @ rpm | —                                     |
| Centrifugal check.              | ° Crankshaft @ rpm | 0 @ 1050 to 1700                      |
|                                 | ° Crankshaft @ rpm | 11 to 15 @ 3500                       |
|                                 | ° Crankshaft @ rpm | 15 to 19 @ 6200                       |
| Vacuum range check              | mbar               | 60 to 320                             |
| Maximum vacuum advance          | ° Crankshaft       | 11 to 15                              |
| Spark plugs                     |                    | Bosch/Champion                        |
| Type                            |                    | W7DCO / N7YCX <sup>2</sup>            |
| Electrode gap                   | mm                 | 0.70 to 0.80 <sup>2</sup>             |

Electrical system

Golf/Jetta 1.8 CAT

1986 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 1.8 CAT

1986 to 1992

|                                          |    |                  |
|------------------------------------------|----|------------------|
| Brakes -                                 |    |                  |
| Front (min. friction material thickness) | mm | 7.0 with backing |
| Rear (min. friction material thickness)  | mm | 2.5 <sup>3</sup> |

|                                  |      |                        |
|----------------------------------|------|------------------------|
| Tyres                            |      |                        |
| Saloon                           | Size | 175/70x13: 185/60x14   |
| Estate / Van                     | Size | —                      |
| Pressure - front / rear - Saloon | bar  | 2.0 / 1.8 <sup>4</sup> |
| - 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']. 4x4: [+15'±20'] <sup>5</sup> |
| Camber                            |        | -1°40'±20'. 4x4: -1°25'±30' <sup>6</sup> |

Torque wrench settings

Golf/Jetta 1.8 CAT

1986 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 <sup>9</sup>  |
| Clutch cover            | Nm | 20               |
| Flywheel [driveplate]   | Nm | 60 + 90° N       |
| Front hubs              | Nm | 230              |
| Rear hubs               | Nm | WSM <sup>7</sup> |
| Wheel nuts / bolts      | Nm | 110              |
| Spark plugs             | Nm | 25               |

Capacities

Golf/Jetta 1.8 CAT

1986 to 1992

|                                 |        |                       |
|---------------------------------|--------|-----------------------|
| Engine oil & filter             | litres | 4.0                   |
| Gearbox - 4-speed [5-speed]     | litres | 2.0                   |
| Automatic transmission - refill | litres | 3.0                   |
| Final drive                     | litres | AT: 0.75 <sup>8</sup> |
| Cooling system                  | litres | 6.0                   |
| Fuel tank                       | litres | 55                    |

Notes and Illustrations

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

<sup>2</sup>Coil with green sticker: W7DTC / N7BYC, gap: 0.70 to 0.90

<sup>3</sup>4x4: 7.0

<sup>4</sup>4x4: 2.1 / 2.1

<sup>5</sup>Chassis no. 1GLW568 162 or 1GLB090 145 ►: [+20'±10']

<sup>6</sup>Chassis no. 1GLW568 162 or 1GLB090 145 ►: -1°30'±10'

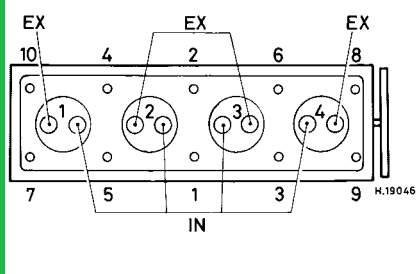
<sup>7</sup>4x4: 230

<sup>8</sup>4x4: front 0.5, rear: 0.7

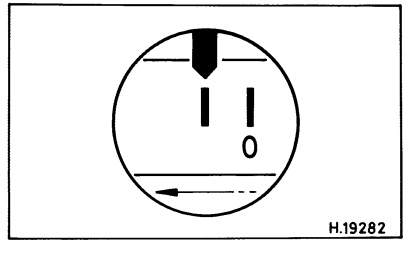
<sup>9</sup>Replace with fully threaded shank bolts: 65+90°

1: Idle speed

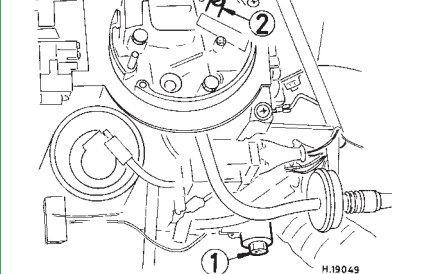
2: CO / Mixture



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



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



Solex / Pierburg 2E2