

VOLKSWAGEN

Golf/Jetta 1.8 CAT

1986 to 1992

Engine & Cooling

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Automotive Technical
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Engine and cooling system

Golf/Jetta 1.8 CAT

1986 to 1992

| | | |
|---------------------------------------------------|-----|-------------|
| Type | | RH. 62kW |
| 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: 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

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| | | |
|---------------------------------|--------------------|---------------------------------------|
| Type | | TCI-H |
| Ignition coil | | Bosch |
| Primary resistance | ohms | Grey sticker: 0.6 to 0.8 ¹ |
| 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 ² |
| Electrode gap | mm | 0.70 to 0.80 ² |

Electrical system

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| | | |
|-----------------------------------------------------|-------------|---------------|
| 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

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

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

Torque wrench settings

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

Capacities

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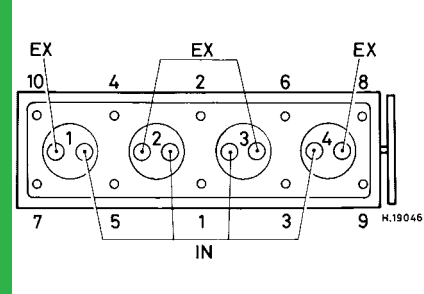
| | | |
|---------------------------------|--------|-----------------------|
| Engine oil & filter | litres | 4.0 |
| Gearbox - 4-speed [5-speed] | litres | 2.0 |
| Automatic transmission - refill | litres | 3.0 |
| Final drive | litres | AT: 0.75 ⁸ |
| Cooling system | litres | 6.0 |
| Fuel tank | litres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

Notes and Illustrations

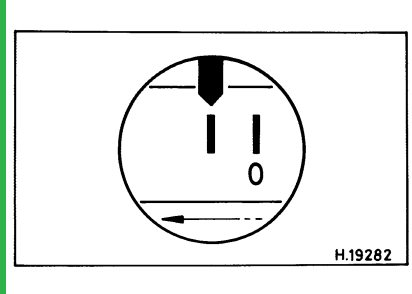
- ¹Coil with green sticker: 0.52 to 0.76
- ²Coil with green sticker: W7DTC / N7BYC, gap: 0.70 to 0.90
- ³4x4: 7.0
- ⁴4x4: 2.1 / 2.1
- ⁵Chassis no. 1GLW568 162 or 1GLB090 145 ►: [+20'±10']
- ⁶Chassis no. 1GLW568 162 or 1GLB090 145 ►: -1°30'±10'
- ⁷4x4: 230
- ⁸4x4: front 0.5, rear: 0.7
- ⁹Replace with fully threaded shank bolts: 65+90°

1: Idle speed

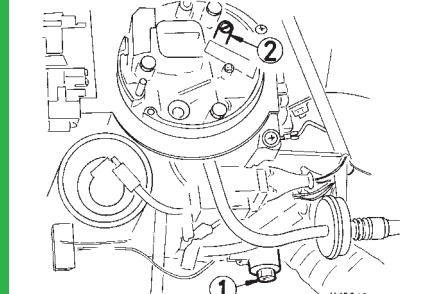
2: CO / Mixture



1781 cm³, 8V



1781 cm³, 8V



Solex / Pierburg 2E2