



Service

Workshop Manual Golf - Jetta 2005 >

4-cylinder injection engine, 2005 >								
Engine ID	BHY							

Edition 09.2005





List of Workshop Manual Repair Groups

Repair Group

- 00 - Technical data
- 10 - Removing and installing engine
- 13 - Crankshaft group
- 15 - Cylinder head, Valve gear
- 17 - Lubrication
- 19 - Cooling system
- 20 - Fuel supply system
- 24 - Mixture preparation, Injection
- 26 - Exhaust system
- 28 - Ignition system

Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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Contents

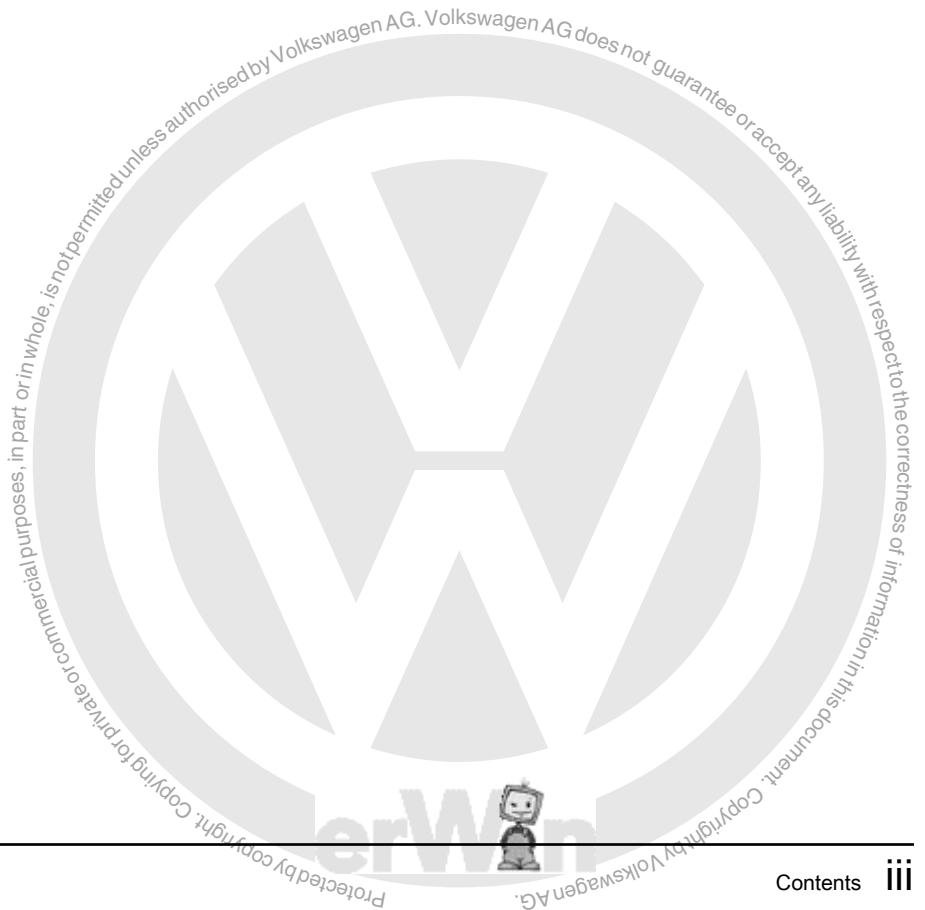
00 - Technical data	1
1 Technical data	1
1.1 Engine number	1
1.2 Engine data	1
10 - Removing and installing engine	2
1 Removing and installing engine	2
1.1 Removing engine	2
1.2 Installing engine	8
13 - Crankshaft group	11
1 Dismantling and assembling engine	11
1.1 Assembly overview	12
1.2 Removing and installing poly V-belt	15
2 Dismantling and assembling pistons and conrods	18
2.1 Assembly overview - Pistons and conrods	18
2.2 Checking pistons, piston rings and cylinder bores	21
2.3 Piston and cylinder dimensions	23
3 Removing and installing crankshaft	24
3.1 Colour identification	25
3.2 Crankshaft dimensions	25
15 - Cylinder head, Valve gear	27
1 Removing and installing cylinder head	27
1.1 Removing, installing and tensioning toothed belt	28
1.2 Checking semi-automatic toothed belt tensioning roller	33
1.3 Removing and installing cylinder head	34
1.4 Checking compression	39
2 Repairing valve gear	41
2.1 Reworking valve seats	43
2.2 Renewing camshaft oil seal	46
2.3 Removing and installing camshaft	48
2.4 Checking hydraulic bucket tappets	50
2.5 Checking valve guides	51
2.6 Renewing valve guides	52
2.7 Renewing valve stem seals	53
17 - Lubrication	56
1 Removing and installing parts of the lubrication system	56
1.1 Engine oil	56
1.2 Assembly overview - Parts of lubrication system	58
1.3 Assembly overview - Oil filter bracket	59
1.4 Removing and installing sump	60
1.5 Checking oil pressure and oil pressure switch	63
19 - Cooling system	65
1 Removing and installing parts of cooling system	65
1.1 Assembly overview - parts of cooling system - engine side	66
1.2 Assembly overview - parts of cooling system - body side	68
1.3 Draining and filling coolant	69
1.4 Removing and installing coolant pump	72
1.5 Removing and installing thermostat	74
1.6 Removing and installing radiator fan V7 and radiator fan 2 V177	75



1.7	Removing and installing radiator	76
1.8	Checking cooling system for leaks	78
20	Fuel supply system	80
1	Fuel tank	80
1.1	Safety precautions when working on the fuel supply system	80
1.2	Rules for cleanliness	80
1.3	Assembly overview - fuel tank	81
1.4	Emptying fuel tank	82
1.5	Removing and installing fuel tank	84
2	Repairing fuel supply	88
2.1	Safety precautions when working on the fuel supply system	88
2.2	Rules for cleanliness	88
2.3	Removing and installing fuel delivery unit	89
2.4	Removing and installing fuel gauge sender G	91
2.5	Checking fuel pump	92
3	Checking electronic power control (EPC)	101
3.1	Function of EPC system	101
3.2	Assembly overview - accelerator pedal module	102
3.3	Removing and installing accelerator module	102
4	Active charcoal filter system	104
4.1	Function	104
4.2	Assembly overview - active charcoal filter system	105
4.3	Checking fuel tank breather	105
24	Mixture preparation, Injection	107
1	Repairing injection system	107
1.1	General notes on injection	107
1.2	Safety precautions	108
1.3	Rules for cleanliness	108
1.4	Technical data	109
1.5	Dismantling and assembling intake manifold - upper part	110
1.6	Dismantling and assembling intake manifold - lower part	111
1.7	Fuel rail	112
1.8	Dismantling and assembling air cleaner	113
1.9	Removing and installing intake manifold	113
1.10	Removing and installing fuel rail with intake manifold flaps	114
1.11	Removing and installing injectors	116
1.12	Renewing Teflon seal on injector	118
1.13	Cleaning throttle valve module J338	120
2	Engine control unit	121
2.1	Removing and installing anti-theft engine control unit	121
2.2	Reading and erasing engine control unit fault memory	123
26	Exhaust system	124
1	Removing and installing parts of exhaust system	124
1.1	Front exhaust pipe and catalytic converter with attachments	125
1.2	Silencer with mountings	126
1.3	Separating middle and rear silencers	126
1.4	Aligning exhaust system stress free	127
28	Ignition system	129
1	Repairing ignition system	129
1.1	General notes on ignition system	129
1.2	Safety precautions	129



1.3	Assembly overview - ignition system	130
1.4	Spark plugs	130







00 – Technical data

1 Technical data

Engine number ⇒ [page 1](#) .

Engine data ⇒ [page 1](#) .

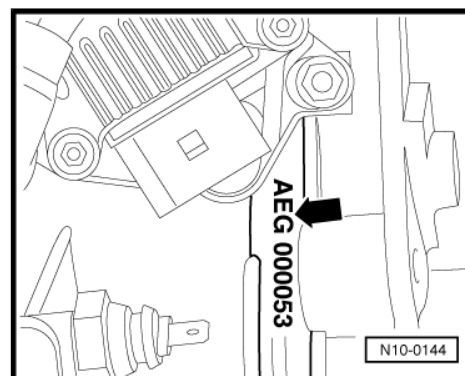
1.1 Engine number

The engine number (“engine code” and “serial number”) can be found at the front on the joint between engine and gearbox.

The engine number consists of up to nine characters (alphanumeric). The first part (maximum 3 characters) makes up the “engine code”, and the second part (6 characters), the “serial number”. If more than 999,999 engines with the same engine code are produced, the first of the six characters is replaced with a letter.

In addition, there is a sticker on the toothed belt guard with “engine code” and “serial number”.

The engine code is also included on the vehicle data sticker.



1.2 Engine data

Engine code	BHY
Displacement	1984
Output	85/5200
Torque	175/4000
Bore	82.5
Stroke	92.8
Compression ratio	10.5
RON	Coast 95 unleaded Inland 91 unleaded
Injection, ignition	Bosch ME 7.5.1
Knock control	yes
Self-diagnosis	yes
Lambda regulation	yes
Catalytic converter	yes
Exhaust gas recirculation	no
Turbocharging/supercharging	no
Electronic power control	yes

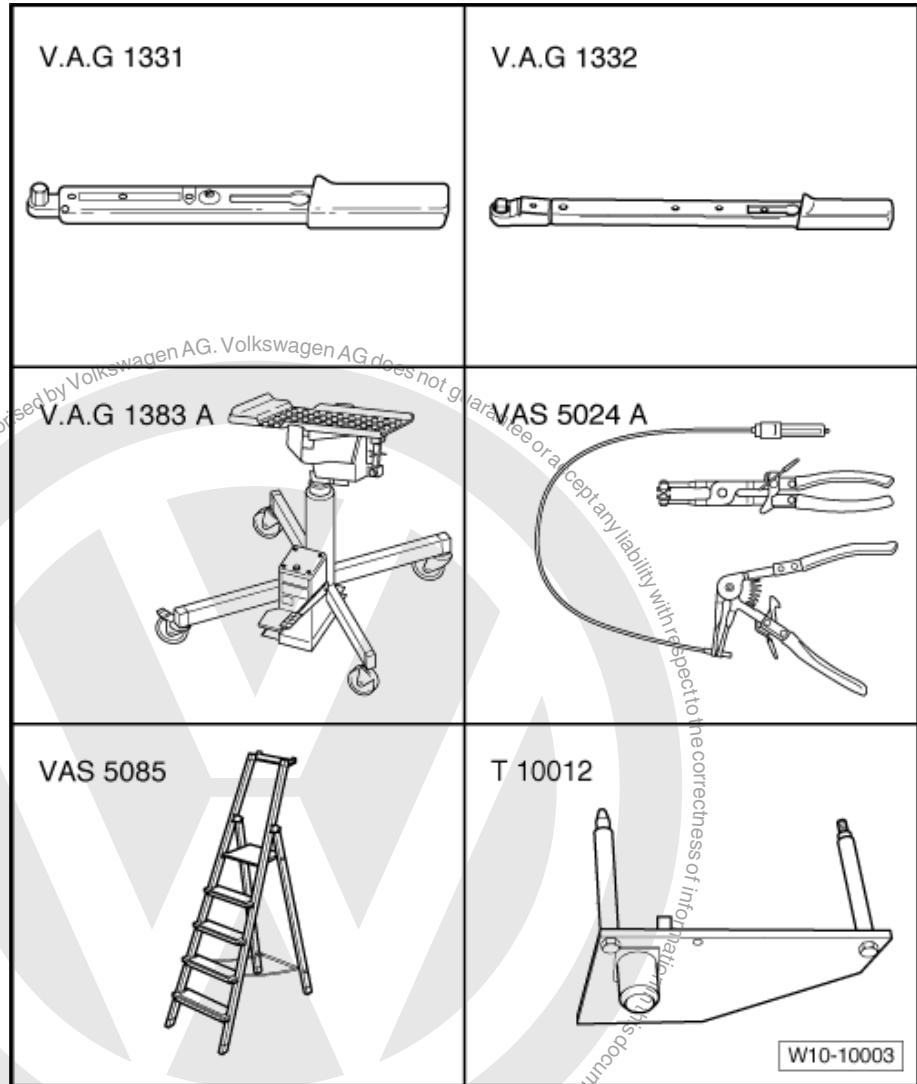


10 – Removing and installing engine

1 Removing and installing engine

Special tools and workshop equipment required

- ◆ Torque wrench -V.A.G 1331-
- ◆ Torque wrench -V.A.G 1332-
- ◆ Engine-/gearbox jack - V.A.G 1383/A-
- ◆ Pliers -VAS 5024/A-
- ◆ Step ladder -VAS 5085-
- ◆ Engine bracket -T10012-
- ◆ Cable ties



Removing engine ⇒ [page 2](#) .

Securing engine to assembly stand ⇒ [page 7](#) .

Installing engine ⇒ [page 8](#) .

Assembly mountings ⇒ [page 10](#) .

1.1 Removing engine

Securing engine to assembly stand ⇒ [page 7](#) .



Note

- ◆ *Before carrying out further work, disconnect battery earth strap. First check whether a coded radio is fitted. Obtain radio code first if necessary.*
- ◆ *The engine is removed downwards together with the gearbox.*
- ◆ *All cable ties which are opened or cut through when engine is removed must be replaced in the same position when engine is installed.*

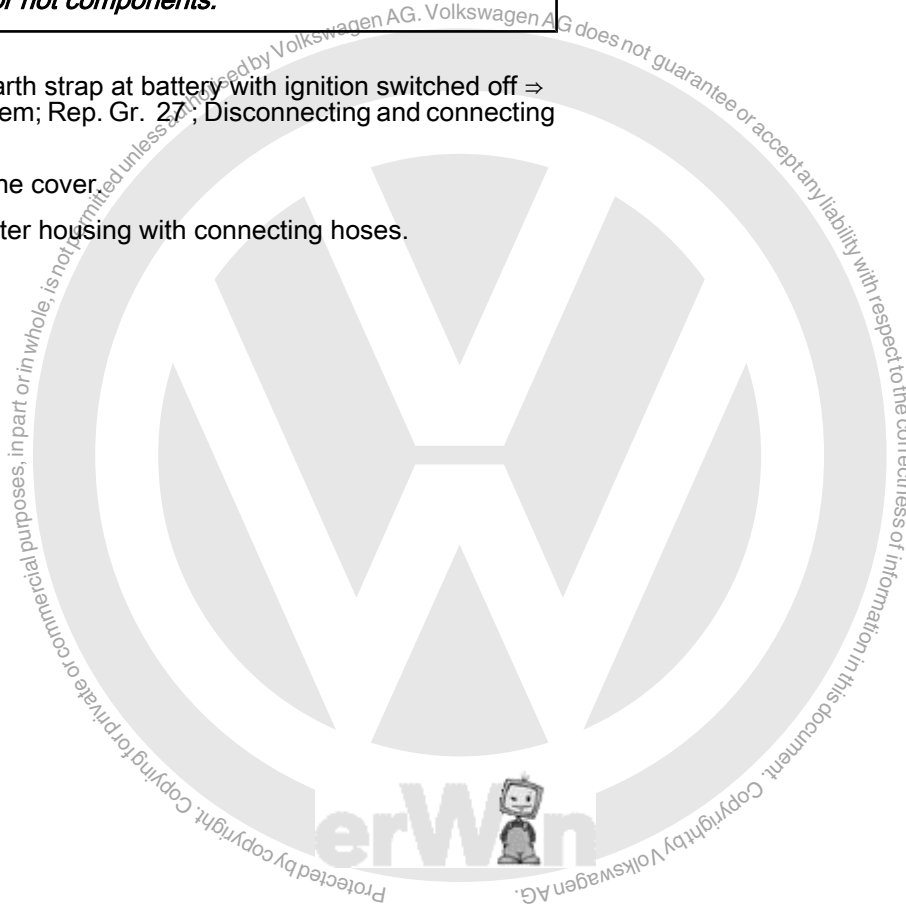


Caution

When doing any repair work, especially in the engine compartment, pay attention to the following due to the cramped conditions:

- ◆ ***Route all types of lines (e.g. for fuel, hydraulics, active charcoal filter system, coolant, refrigerant, brake fluid and vacuum) and electrical wiring in their original positions.***
- ◆ ***To avoid damage to lines, ensure sufficient clearance to all moving or hot components.***

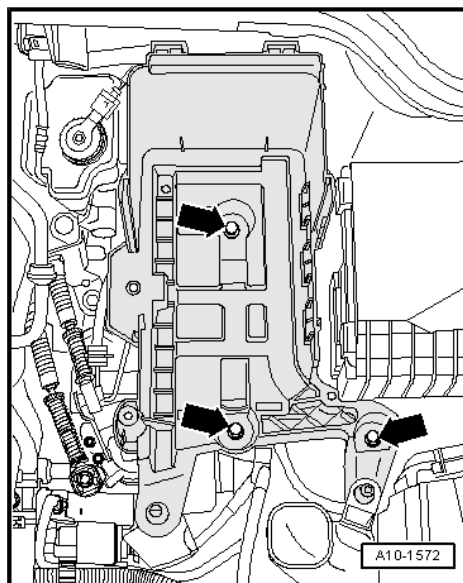
- Disconnect earth strap at battery with ignition switched off ⇒ Electrical system; Rep. Gr. 27; Disconnecting and connecting battery.
- Remove engine cover.
- Remove air filter housing with connecting hoses.





Golf - Jetta 2005 ▶
4-cylinder injection engine, 2005 ▶ - Edition 09.2005

- Remove battery and battery tray -arrows-.
- Remove top part of intake manifold.
- Remove plenum chamber bulkhead ⇒ General body repairs, exterior; Rep. Gr. 50 ; Body front; Plenum chamber bulkhead.
- Detach connectors from the following components:
 - ◆ Ignition transformer -N152-
 - ◆ Injector for cylinder 1 -N30-
 - ◆ Injector for cylinder 2 -N31-
 - ◆ Injector for cylinder 3 -N32-
 - ◆ Injector for cylinder 4 -N33-
 - ◆ Coolant temperature sender -G62-
 - ◆ Engine speed sender -G28-
 - ◆ Knock sensor 1 -G61-
 - ◆ Knock sensor 2 -G66-
 - ◆ Secondary air pump motor -V101-
 - ◆ Oil pressure switch -F1-
 - ◆ Throttle valve control module -J338-
 - ◆ If necessary A/C system shutoff thermal switch -F163-
- Pull engine wiring harness connector off engine control unit.
- Separate all connectors between engine wiring harness and body and lay engine wiring harness on engine.



WARNING

The fuel supply line is under pressure! Wear protective glasses and clothing to avoid injuries and skin contact. Before loosening hose connections, wrap a cloth around the connection. Then release pressure by carefully pulling hose off connection.

- Disconnect breather line -1-and fuel supply line -2-.
- Remove noise insulation tray ⇒ General body repairs, exterior; Rep. Gr. 50 ; Body front; Noise insulation.
- Bring lock carrier into service position ⇒ General body repairs; Rep. Gr. 50 ; Body front; Lock carrier service position .
- Drain coolant ⇒ [page 69](#) .
- Remove left wheel housing liner.

