Maintenance

Golf 1992 ➤ , Golf Cabrio 1994 ➤ , Golf Cabrio 1998 ➤ , Golf Variant 1992 ➤ , Vento 1992 ➤

Edition 08.2006

GOLF and VENTO 1H, GOLF CONVERTIBLE 1E and 1V						
FILTER CHANGE INTERVALS						
	Diesel conforming to EN 590		Diesel not conforming to EN 590		Biodiesel (RME) conforming to DIN EN 14214 for vehicles 1996‣	
	Change	Drain water	Change	Drain water	Change	Drain water
Diesel engines ‣1996	every 30,000 km	every 15,000 km	every 15,000 km	every 7,500 km	every 15,000 km	every 7,500 km
Diesel engines 1997‣	every 60,000 km	every 30,000 km	every 30,000 km	every 15,000 km	every 30,000 km	every 15,000 km
Engine code 1Y 1996‣	every 30,000 km	every 15,000 km	every 15,000 km	every 7,500 km	every 15,000 km	every 7,500 km
Engine code 1Y ‣1995	every 30,000 km	every 7,500 km	every 15,000 km	every 7,500 km	---	---
DUST AND POLLEN FILTER						
All engine types	Every 30,000 km					

2.1.3 Toothed belt change intervals

GOLF and VENTO 1H, GOLF CONVERTIBLE 1E and 1V		
TOOTHED BELT CHANGE INTERVALS		
DIESEL ENGINES	Change intervals	Tensioning roller
All SDI and TDI engines	Every 90,000 km	Every 90,000 km

2.1.4 Service intervals

GOLF and VENTO 1H, GOLF CONVERTIBLE 1E and 1V		
SERVICE INTERVALS		
Since introduction	Diesel, in countries with elevated sulphur content in fuel	Oil change service every 7,500 km or 1 year
Since introduction	Diesel engines, engine codes: ◆ AHU, ALE ◆ 1Y‣1995	Oil change service every 7,500 km or 1 year
Since introduction	All petrol engines diesel engines, engine codes: ◆ AAZ, AEY, AFN, 1Z ◆ 1Y 1996‣	Oil change service every 15,000 km
1996‣	Diesel engine, engine code: ◆ 1Y	Oil change service according to flexible service interval display
Since introduction	All vehicles	Inspection service every 12 months
Since introduction	All vehicles	Inspection service every 30,000 km

2.2 Oil change service

◆ Oil change service every 7,500 km ⇒ page 8

Every 90,000 km

Additional work	Page
– Camshaft drive toothed belt and toothed belt tensioning roller: Renew • Only valid for vehicles with TDI and SDI engines • Additional work as a separate charge!	⇒ page 56

Every 90,000 km, then every 30,000 km

Additional work	Page
– Check camshaft drive toothed belt • Only valid for 4-cylinder petrol engines 1996 ▸ without prescribed change interval	⇒ page 55

Every 2 years

Additional work	Page
– Brake fluid: Change • Additional work as a separate charge!	⇒ page 72
– Air filter: Clean housing and renew filter element • Valid for vehicles with engine code ABD 08.92 ▸ driving less than 60,000 km in 2 years	
– Air filter: Clean housing and renew filter element • Only valid for vehicles with engine code ABD ▸ 07.92 driving less than 30,000 km in 2 years	

3 years after initial registration and then every 2 years / only valid for Germany

Additional work	Page
– Perform exhaust emissions test [16] • Additional work as a separate charge!	⇒ page 79

2.6 Delivery inspection

Notes on performing inspection service

- The sequence of the individual service tasks has been tested and optimised. Therefore, it should be followed to avoid unnecessary interruptions in the work.

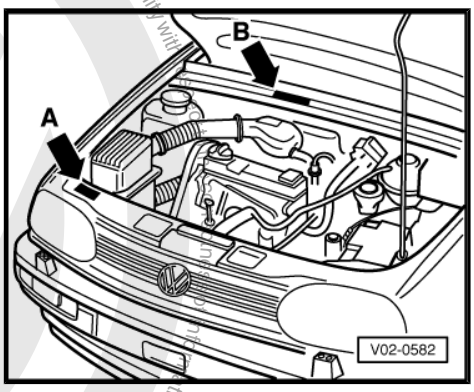
Work to be completed	Page
Vehicle interior	
– Fuse(s) (in ashtray): Fit	
– All switches, electrical consumers, gauges and other controls: Check function	

Note

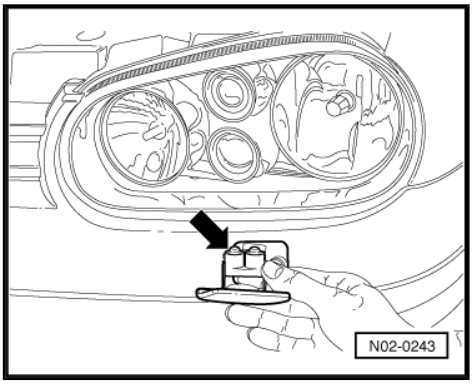
- *When using biodiesel observe the changed intervals for changing the fuel filter ⇒ page 6 .*
- *If it is planned not to use the vehicle for approx. two weeks, it is recommended to fill the tank with original diesel beforehand and drive approx. 50 km, to prevent damage to the fuel injection system.*

3.8 Type plate

Type plate: It is located on front lock carrier plate -A-



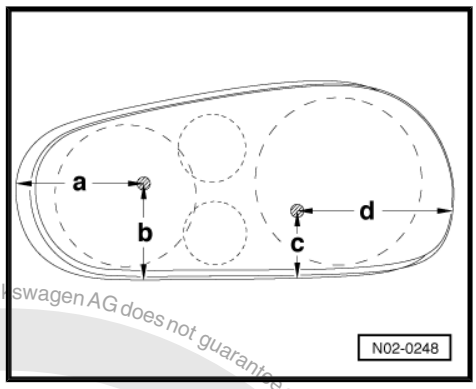
– Pull spray jet -arrow- out onto stop and align onto respective spray points using adjusting tool -3019 A- .



The following jet adjustment dimensions are for the left-hand headlight (right-hand mirror image).

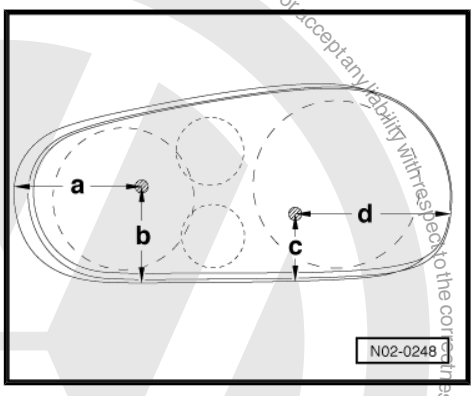
– Adjust the inner spray jet to the following dimension:

- -a- 100 mm
- -b- 75 mm



– Adjust the outer spray jet to the following dimension:

- -c- 55 mm
- -d- 125 mm

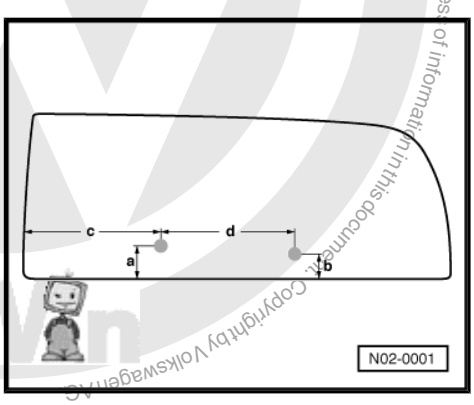


Note

If the spray jet is uneven or cannot be adjusted to specified dimensions, renew spray jet.

Vento:

- -a- 25 mm
- -b- 20 mm
- -c- 110 mm
- -d- 110 mm



Frost protection to	Coolant additive G 12 Plus	Water
-35 °C	approx. 50 %	approx. 50 %
-40 °C	approx. 60 %	approx. 40 %

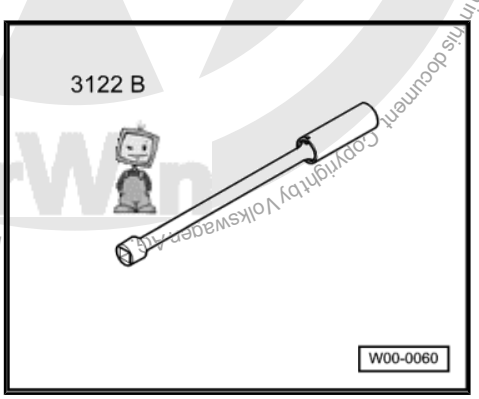
Note

- *Coolant additive G 12 Plus prevents frost and corrosion damage, scaling and also raises boiling point of coolant. For these reasons, the cooling system must be filled all-year-round with a frost and corrosion protection additive.*
- *Because of its high boiling point, the coolant improves engine reliability under heavy loads, particularly in countries with tropical climates.*
- *The coolant concentration must not be reduced by adding water even in warmer seasons and in warmer countries. The antifreeze portion must be at least 40%.*

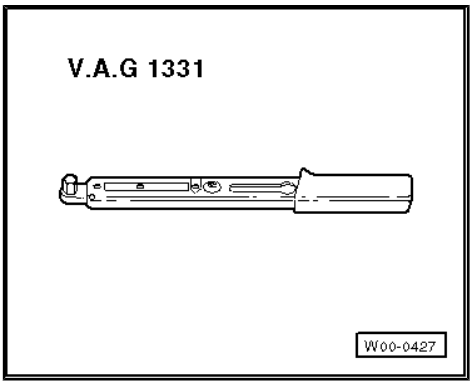
4.17 Spark plugs: Renew

Special tools and workshop equipment required

- Spark plug socket and extension -3122 B-



- Assembly tool -3277 A-
- Torque wrench -V.A.G 1331- (5 - 50 Nm)

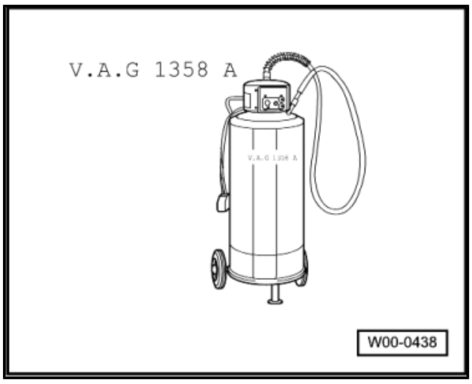


- ⇒ Data sheets for exhaust emission test

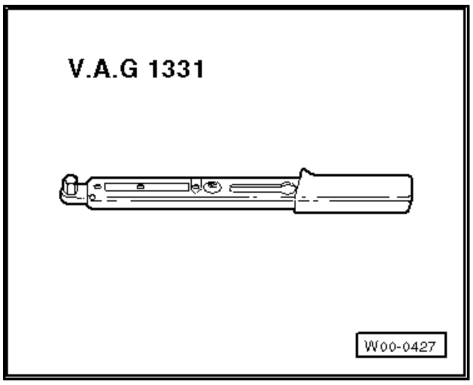
Note

- *Spark plug designation ⇒ Data sheets for exhaust emission test*
- *Observe disposal regulations!*

- Oil extractor -V.A.G 1358 A-



- Torque wrench -V.A.G 1331- (5 -50 Nm)



- ⇒ Data sheets for exhaust emission test

Note

- *When the engine oil is drained and not extracted with oil extractor -V.A.G 1307- or extractor -V.A.G 1358 A- , replace drain plug seal.*
- *Observe disposal regulations!*

TDI engines: After changing engine oil and oil filter, check following after first engine start:

– The engine must only run at idling speed as long as the oil pressure warning lamp lights up in dash panel. Do not rev up! If the engine is revved up the turbocharger can be damaged or fail completely.

– The full oil pressure is not attained until the warning lamp has gone out, only then can the engine be revved up.

Capacities with filter change: ⇒ Data sheets for exhaust emission test

Torque settings for oil drain plug:

Note

Remember that the following torque details must not be exceeded. Excess torque can cause leaks in the area of the oil drain plug or even damage.

- Engine code ABF: Sheet metal sump 40 Nm
- 4-cylinder engines: Sheet metal sump 30 Nm, aluminium sump 20 Nm

	Half load		Full load	
	front	rear	front	rear
4-hole wheel fastening 81 kW with tyres				
185/60 R 14	2.5	2.3	2.6	2.8
195/50 R 15	2.5	2.3	2.6	2.8
5-hole wheel fastening 81 kW with tyres				
195/50 R 15	2.6	2.4	2.7	2.7
205/50 R 15	2.2	2.0	2.3	2.5
215/40 R 16	2.6	2.4	2.7	2.7
Spare wheel (petrol and diesel):				
Temp. spare Standard wheel:	4.2 Keep to the highest pressure required for the vehicle.			

Golf syncro

	Half load		Full load	
	front	rear	front	rear
Vehicles with petrol engine:				
66 kW with tyres				
175/70 R 13	2.3	2.3	2.5	2.9
185/60 R 14	2.3	2.3	2.5	2.9
195/50 R 15	2.3	2.3	2.5	2.9
85 kW with tyres				
185/60 R 14	2.5	2.5	2.7	3.1
195/50 R 15	2.5	2.5	2.7	3.1
140 kW with tyres				
205/50 R 15	2.4	2.4	2.6	3.0
215/40 R 16	2.4	2.4	2.6	3.0

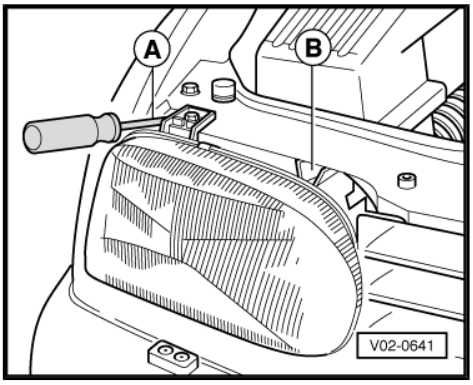
	Half load		Full load	
	front	rear	front	rear
Vehicles with diesel engine:				
66 kW with tyres				
185/60 R 14	2.4	2.4	2.6	3.0
195/50 R 15	2.4	2.4	2.6	3.0
Spare wheel (petrol and diesel):				
Temp. spare Standard wheel:	4.2 Keep to the highest pressure required for the vehicle.			

Headlight (right):

- -A- Height adjustment
- -B- Lateral adjustment

On the left-hand headlight both adjuster knobs are a mirror image.

– To lower headlight insert cross head screwdriver into the opening -A- and turn white adjuster knob clockwise, located behind.



Note

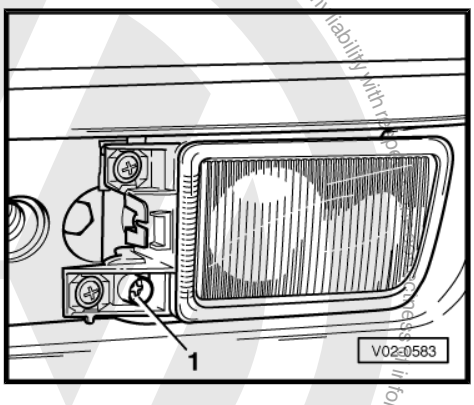
When the adjuster knob in engine compartment can be reached easily, adjustment can be performed directly with adjuster knob. Turn adjuster knob anti-clockwise to lower the headlight. Lateral adjustment can also be performed with adjuster knob through opening -B- when knob in engine compartment can be reached easily.

Right fog light

– Remove towing eye cover.

– To reduce the beam range turn adjustment screw -1- to the left. A lateral adjustment is not possible.

Location of adjustment screw on left-hand headlight is a mirror image.



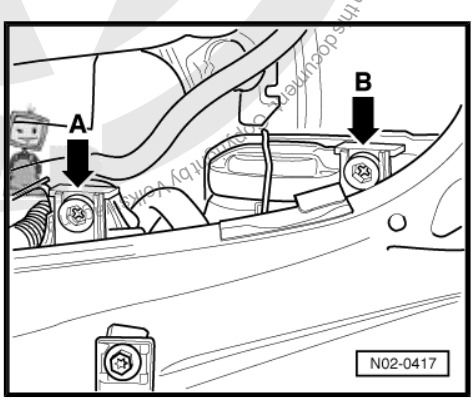
4.47.3 Adjusting headlights for the Golf Convertible 04.98 ▸

Left headlight

- -A- Height adjustment
- -B- Lateral adjustment

Both adjustment screws on right-hand headlight are a mirror image.

– Turn adjustment screw -arrow A- using a cross head screwdriver for height adjustment and turn adjustment screw -arrow B- for lateral adjustment.



4.48 Performing road test

Which of the following can be checked depends on vehicle equipment and local conditions (urban/country).

Check the following during a road test:

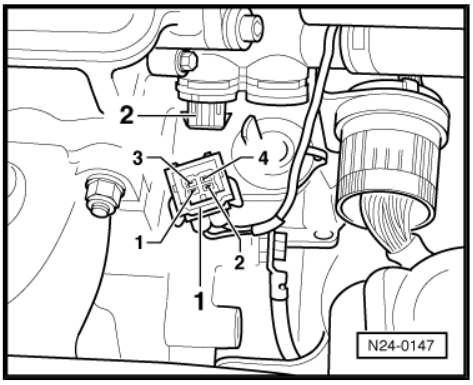
– Engine: Output, misfiring, idling speed, acceleration.

– Clutch: Pulling away, pedal pressure, odours.

– Gear selection: Ease of operation, stick position.

– Automatic gearbox: Selector lever position, shift lock / ignition key removal lock, shift behaviour.

– Pull 4-pin connector -1- off coolant temperature sender (00522-2312) -G62- -2-.



The control unit must recognise the disturbance variable and eliminate through regulation within 60 seconds.

Note

The throttle valve must not be operated during the test, otherwise the disconnected connector will be recognised as fault by the self-diagnosis and stored in the fault memory.

– Reconnect 4-pin connector.

Note

When connecting the connector always ensure that it is fitted properly and engages noticeably.

The control unit must recognise deactivation of the disturbance variable and eliminate through regulation within 60 seconds.

Note

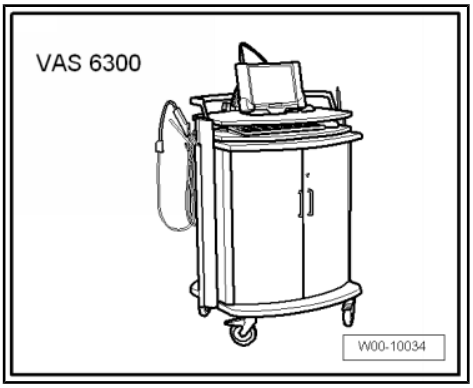
- *The control circuit test is also completed when the disturbance variable has been recognised in one direction and has been eliminated through regulation.*
- *If the disturbance variable has not been recognised (lambda change insufficient) repeat lambda control circuit test.*

If actual figures deviate from specifications: Repair measures and again perform exhaust emissions test!

After completing exhaust emissions test note the following:

- Reconnect all hoses and connections that have been disconnected or separated for checking and adjusting purposes.
- Operate assemblies e.g. power assisted steering, automatic gearbox, air conditioning system and check that the engine operates smoothly under these load conditions.

- Emissions testing station -VAS 6300-



- OBD adapter cable -VAS 5052/16-

Note

- *It is only possible to carry out an exhaust emissions test when all units of the emissions testing station -VAS 6300- are connected properly and combined with each other according to the instruction manual.*
- *All work to be performed is displayed by the emissions testing station -VAS 6300- .*
- *All test conditions and data required for the exhaust emissions test: ⇒ Data sheets for exhaust emission test*
- *Faults (engine electronics) identified when fault memory is read must be rectified and the fault memory then cleared.*
- *To prevent injuries to personnel and/or damage to ignition and injection system, the ignition system wiring (including high voltage wiring) should be connected and disconnected only with ignition switched off.*

Test prerequisites:

- All test conditions and data required for exhaust emissions test are found on EET data sheet for the respective engine.
- For bar code reading the EET data sheet must be printed out.
- Automatic gearbox: Selector lever in position “P” or “N”.
- Manual gearbox: Gear lever in neutral
- Handbrake pulled on

– Start engine and run at idling speed.

– Perform exhaust emissions test according to instructions on display.

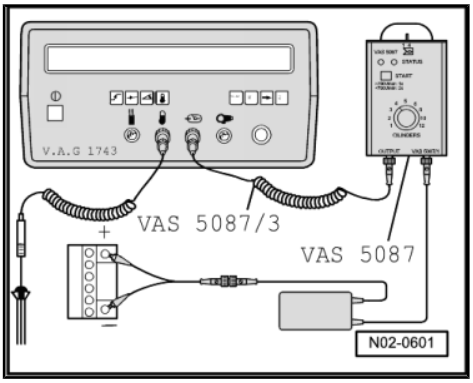
– Connect emissions testing station -VAS 6300- to diagnosis connection with ignition switched off.

Installation position of diagnosis connection

– Using the other wires from adapter -VAS 5087/1- make a connection to the vehicle battery, by connecting:

♦ Red clamp on positive

♦ Black clamp on negative.



Note

♦ *When using the engine speed adapter -VAS 5087 A- press button "Start". The red signal lamp must flash for approx. 10 seconds. Then the green signal lamp must light up.*

♦ *The engine speed must now be displayed on ignition tester -V.A.G 1767- .*

♦ *If the engine speed is displayed incorrectly or not at all ⇒ Operating instructions for VAS 5087*

Test sequence

– Start engine and run at idling speed.

– Press F2 button for "EET diesel" on data reader.

If the following is indicated on display:

```
Please insert vehicle ident. card!!
Manual input with     -> button
```

– Enter vehicle identification data as follows, using data reader keyboard:

♦ Registration number

♦ Vehicle manufacturer = "NO. 2"

♦ Key number = "to NO. 2"

♦ Vehicle type = "NO. 3"

♦ Key number = "to NO. 3" (the first 3 digits)

♦ Vehicle identification number = "NO. 4"

♦ Engine code

♦ Odometer reading

– Confirm entry of vehicle identification data with Q button.

```
Check input with        -> but-
ton
Continue with  Q button
```

– Confirm entry of vehicle identification data with Q button.

If the following is indicated on display:

```
Read bar code
Manual input with         -> button
```

– Enter specifications using bar code reader of data reader, to do this slide bar code reader over respective bar code of data sheet in "Exhaust emissions test" binder.

or

– Perform entry by hand following instructions on data reader display using → button.

If the following is indicated on display:

```
Check input with        -> button
Continue with  Q button
```