

Maintenance

Audi A3 1997 ➤

Edition 07.2012



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

Maintenance

Heading

1. Notes on servicing
2. Delivery Inspection
3. LongLife Service
4. Description of work
5. Type plate, vehicle identification number
6. Lifting the vehicle
7. Tow-starting/towing

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

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.

Contents

1	Notes on servicing	1
1.1	Overview of engines	1
1.2	Diesel engines	3
2	Delivery Inspection	4
2.1	Delivery Inspection	4
3	LongLife Service	5
3.1	Audi A3 as from chassis number 8LYA 000 001	5
4	Description of work	7
4.1	Lights, electrical equipment, switches, displays and other driver-operated controls: checking operation	7
4.2	Vehicle keys: checking operation	7
4.3	Windscreen wiper/washer system and headlight washer system: checking jet settings and operation	8
4.4	Windscreen wiper/washer system: checking jet settings, adjusting jets if necessary	8
4.5	Headlight washer system: checking jet settings	9
4.6	Wiper blades: checking park position and checking for damage	9
4.7	Electric windows: checking positions	11
4.8	Air conditioner: checking operation and setting temperature to 22 °C	11
4.9	Radio / Navigation System Plus (Chorus, Concert, Symphony): deactivating transport mode	11
4.10	Radio /Radio Navigation System Plus: activating anti-theft coding by entering fixed code number	14
4.11	Self-diagnosis: interrogating fault memory with V.A.G 1551 or VAS 5051	15
4.12	Instrument cluster: setting the language	17
4.13	Service interval display: resetting	18
4.14	Service interval display: resetting LongLife Service as from model year 2000 > Y	21
4.15	Service interval display: resetting Inspection Service (fixed interval) as from model year 2000 > Y	37
4.16	Door arresters, lock cylinders and bonnet arrester hook: lubricating	50
4.17	Sliding sunroof: checking operation, cleaning guide rails and spraying with lubricating spray	51
4.18	Telematics: renewing emergency backup battery	51
4.19	Battery: checking fluid level	52
4.20	Battery: checking "no load" voltage before starting the engine for the first time (only applies to stock vehicles)	54
4.21	Battery: checking that battery cables are securely fitted	55
4.22	Battery: performing load test	56
4.23	Engine cover panel: removing	57
4.24	Engine (from above and below) and engine compartment: visual check for leaks and damage	58
4.25	Windscreen and headlight washer system: topping up with washer fluid	59
4.26	Cooling system: checking antifreeze and topping up with coolant if necessary	59
4.27	Air cleaner: cleaning housing and renewing filter element	61
4.28	Noise insulation: removing	61
4.29	Spark plugs: renewing	62
4.30	Hydraulic system: checking for leaks, checking hydraulic fluid level and topping up if necessary	64
4.31	Fuel filter: renewing (TDI engines)	65
4.32	Dust and pollen filter: renewing	66
4.33	Toothed belt for camshaft drive: checking for damage, measuring width of toothed belt (TDI engines up to and including model year 1999 X)	67
4.34	Toothed belt for camshaft drive: renewing (TDI engines)	67
4.35	Poly V-belt: renewing	68
4.36	Toothed belt: renewing	68
4.37	Transport locks: removing locking elements for front suspension struts	68



4.38	Manual gearbox/final drive: checking oil level, topping up with oil if necessary	69
4.39	Haldex coupling: changing oil	70
4.40	Haldex coupling: renewing oil filter	71
4.41	Final drive (automatic gearbox): checking oil level, topping up with oil if necessary	72
4.42	Engine oil: draining or extracting, changing oil filter	73
4.43	Brake system: visual check for leaks and damage	75
4.44	Brake pads: checking thickness	76
4.45	Underseal: visual check for damage	76
4.46	Plenum chamber: checking and cleaning water drain	76
4.47	Track rod ball joints: checking play, security and boots	77
4.48	Tyres: checking condition, wear pattern, tread depth and correcting inflation pressures.	77
4.49	Winter tyres (factory-fitted)	78
4.50	Wheel bolts: tightening to specified torque	79
4.51	Engine oil: filling up	79
4.52	Engine: checking oil level	81
4.53	Brake fluid level (depends on brake pad wear): checking	81
4.54	Brake fluid: changing (every 2 years)	82
4.55	Headlights: checking settings and adjusting if necessary	87
4.56	Road test	95
5	Type plate, vehicle identification number	96
5.1	Information encoded in vehicle identification number:	96
5.2	Vehicle data sticker	96
5.3	Engine code and engine number	96
6	Lifting the vehicle	98
7	Tow-starting/towing	99
7.1	Front towing eye	99

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

1 Notes on servicing

The order of the individual servicing operations is optimised as a result of long-standing experience. It is therefore essential to comply with the stated order to avoid unnecessary delays.

The order in which operations are described here is based on that specified for the Inspection Service, which is the type of service performed most frequently.

Please inform the customer if any faults or defects which need repairing are identified during an Inspection Service.

1.1 Overview of engines

Engine code	AEH, AKL, APF, AVU	AGN, APG	AGU	AQA, ARX	ARZ, AUM	AJQ
Exhaust emissions standard	AEH- EU II, AKL-EU II +D3 APF-EU II+D4 AVU- EU IV	AGN- EU II +D3 APG- EU III	EU II + D3	AQA- EU II +D3 ARX- EU III	ARZ- EU II +D4 AUM- EU IV	EU II + D3
No. of cylinders / valves per cylinder	4 / 2	4 / 5	4 / 5	4 / 5	4 / 5	4 / 5
Capacity ltr.	1.6	1.8	1.8	1.8	1.8	1.8
Power output kW at rpm	74/5600 AVU 75/5600	92/6000	110/5000...6000	110/5000...5700	110/5000...5700	132/5500...6000
Torque Nm at rpm	145/3800 AVU 148/3800	173/4100	210/2000...4500	210/1750...4600	210/1750...4600	235/1950...5000
Bore Ø mm	81.0	81.0	81.0	81.0	81.0	81.0
Stroke mm	77.4	86.4	86.4	86.4	86.4	86.4
Compression ratio	10.2	10.3	9.5	9.5	9.5	9.5

Engine code	AEH, AKL APF, AVU	AGN, APG	AGU	AQA, ARX	ARZ, AUM	AJQ
Fuel injection / ignition	Simos Multi Point Injection	Bosch Motronic	Bosch Motronic	Bosch Motronic	Bosch Motronic	Bosch Motronic
RON min.	95 ¹⁾ (unleaded)	95 ¹⁾ (unleaded)	95 ¹⁾ (unleaded)	95 ¹⁾ (unleaded)	95 ¹⁾ (unleaded)	98 ²⁾ Super plus unleaded
Hydraulic valve clearance compensation	X	X	X	X	X	X
Self-diagnosis	X	X	X	X	X	X
Catalytic converter	X	X	X	X	X	X
Electronic throttle (EPC)	APF, AVU	-	-	X	X	X
Lambda control	X	X	X	X	X	X
Variable intake manifold	APF, AVU	X	-	-	-	-
Secondary air system	-	-	-	ARX	X	-
Exhaust gas recirculation	APF, AVU	-	-	-	-	-
Turbocharger	-	-	X	X	X	X



Engine code	AEH, AKL APF, AVU	AGN, APG	AGU	AQA, ARX	ARZ, AUM	AJQ
Exhaust emissions test after 3, 5, 7, 9...years	X	X	X	X	X	X

1) Unleaded RON 91 can also be used, but will result in a slight loss of power.

2) Unleaded RON 95 can also be used, but will result in a slight loss of power.

Engine code	APP	AUQ	ARY	APY, AMK	BFQ
Exhaust emissions standard	EU II + D4	EU IV	EU III	APY- EU II + D3 AMK- EU III	EU IV
No. of cylinders / valves per cylinder	4 / 5	4 / 5	4 / 5	4 / 5	4 / 2
Capacity ltr.	1.8	1.8	1.8	1.8	1.6
Power output kW at rpm	132 5500...6000	132 5500...6000	132 5500...6000	154/ 5000...5800	75/5600
Torque Nm at rpm	235 1950...5000	235 1950...5000	235 1950...5000	270/ 2100...5000	148/3800
Bore Ø mm	81.0	81.0	81.0	81.0	81.0
Stroke mm	86.4	86.4	86.4	86.4	77.4
Compression ratio	9.5	9.5	9.5	9.5	10.5

Engine code	APP	AUQ	ARY	APY, AMK	BFQ
Fuel injection / ignition	Bosch Motronic	Bosch Motronic	Bosch Motronic	Bosch Motronic	Simos Multi Point Injection
RON min.	98 ⁴⁾ Super plus (unleaded)	98 ⁴⁾ Super plus (unleaded)	98 ⁴⁾ Super plus (unleaded)	98 ⁴⁾ Super plus (unleaded)	95 ³⁾ (unleaded)
Hydraulic valve clearance compensation	X	X	X	X	X
Self-diagnosis	X	X	X	X	X
Catalytic converter	X	X	X	X	X
Lambda control	X	X	X	X	X
Electronic throttle (EPC)	X	X	X	X	X
Secondary air system	X	X	X	X	X
Exhaust gas recirculation	-	-	-	-	X
Turbocharger	X	X	X	X	-
Exhaust emissions test after 3, 5, 7, 9...years	X	X	X	X	X

3) Unleaded RON 91 can also be used, but will result in a slight loss of power.

4) Unleaded RON 95 can also be used, but will result in a slight loss of power.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

1.2 Diesel engines

Engine code	AGR, ALH	AHF, ASV	ATD, AXR	ASZ
Exhaust emissions standard	AGR- EU II ALH- EUIII+D3	AHF- EU II ASV- EU III	ATD- EU III AXR- EU III + D4	EU III
No. of cylinders / valves per cylinder	4 / 2	4 / 2	4 / 2	4 / 2
Capacity ltr.	1.9	1.9	1.9	1.9
Power output kW at rpm	66/4000	81/4150	74/4000	96/4000
Torque Nm at rpm	210/1900	235/1900	240/1800-2400	310/1900
Bore Ø mm	79.5	79.5	79.5	79.5
Stroke mm	95.5	95.5	95.5	95.5
Compression ratio	19.5	19.5	19.0	19.0

Engine code	AGR, ALH	AHF, ASV	ATD, AXR	ASZ
Fuel injection / ignition	TDI	TDI	TDI unit injector	TDI unit injector
CN min.	49	49	49	49
Hydraulic valve clearance compensation	X	X	X	X
Self-diagnosis	X	X	X	X
Catalytic converter	Oxidizing catalytic converter	Oxidizing catalytic converter	Oxidizing catalytic converter	Oxidizing catalytic converter
Lambda control	-	-	-	-
Electronic throttle (EPC)	AGR from model yr. 1999	X	X	X
Exhaust gas recirculation	X	X	X	X
Turbocharger	X	X	X	X
Charge air cooler	X	X	X	X
Exhaust emissions test after 3, 5, 7, 9...years	X	X	X	X

2 Delivery Inspection

2.1 Delivery Inspection

The entry on the sticker stating whether LongLife Service or Inspection Service applies depends on the country of delivery
⇒ [page 5](#).

- Complete the sticker accordingly:

For vehicles with LongLife Service ⇒ see description below

For vehicles with Inspection Service ⇒ [page 4](#)

2.1.1 LongLife Service

- On the sticker please tick the box: Next Service as shown in service interval display.
- Brake fluid Service: 24 months from current date.



Note

Note oil type used and entry of oil grade in instrument cluster.

Service Anzeige beachten!

Nächster Service Termin

nach Anzeige ☒ oder

Monat: _____ Jahr: _____

bei _____ km
je nachdem, was zuerst eintritt.

Nächster Bremsflüssigkeits Service

Monat: 08 Jahr: 2001

Hilfe rund um die Uhr
0800-283 44 45 33

A02-0255

2.1.2 Inspection Service (fixed interval)

Oil change service every 15,000 km (9,000 miles) or 12 months.
Inspection service every 30,000 km (19,000 miles).

- Month and year: 12 months from current date. Also enter mileage.
- Brake fluid Service: 24 months from current date.



Note

Note oil type used and entry of oil grade in instrument cluster.

Attach completed sticker to left of dash panel, on inside of door or on door post on driver's side of the vehicle (-B-pillar).

Service Anzeige beachten!

Nächster Service Termin

nach Anzeige ☐ oder

Monat: 08 Jahr: 2000

bei 15000 km
je nachdem, was zuerst eintritt.

Nächster Bremsflüssigkeits Service

Monat: 08 Jahr: 2001

Hilfe rund um die Uhr
0800-283 44 45 33

A02-0257

3 LongLife Service

3.1 Audi A3 as from chassis number 8LYA 000 001

3.1.1 Vehicles built 2000 > -Y-



Note

- ◆ *The LongLife Service is activated at the factory for all vehicles delivered to the countries mentioned below.*
- ◆ *Belgium, Germany*
- ◆ *Denmark, France*
- ◆ *Finland, Great Britain*
- ◆ *Greece, Gibraltar*
- ◆ *Italy, Iceland*
- ◆ *Ireland, Canary Isles*
- ◆ *Luxembourg, Malta*
- ◆ *Netherlands, Norway*
- ◆ *Austria, Portugal*
- ◆ *Sweden, Switzerland, Liechtenstein*
- ◆ *Spain, Andorra, Cyprus*

3.1.2 Extended servicing intervals

- ◆ Vehicles with petrol engine/ turbocharged petrol engine: max. 30,000 km (19,000 miles) or max. 2 years, oil grade 2
- ◆ Vehicles with 4-cyl. diesel engine: max. 50,000 km (30,000 miles) or max. 2 years, oil grade 4

The oil grade must be entered in the instrument cluster.

3.1.3 LongLife engine oil

New VW standard (specially developed, resistant to ageing) according to specification:

- VW 503- 00 Petrol engines / turbocharged petrol engines
- VW 503- 01 Turbocharged petrol engines (from 154 kW Audi S3)
- VW 506- 00 Diesel engines (not with unit injector)

-VW 506- 01 Diesel engines (with unit injector, as from week 18/
model year 01)

This document is for informational purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

**Note**

- ◆ *Vehicles with LongLife Service are already factory-filled with engine oil according to VW standard 503 00 (petrol engines/turbocharged petrol engines) or 503 01 (turbocharged petrol engines from 154 kW, only Audi S3 and Audi TT) or 506 00 (diesel engines) or 506 01 (diesel engines, unit injectors). The conditions for the LongLife Service with a maximum service interval of 2 years will only be met if this new engine oil is used at oil change and when topping up.*
- ◆ *Vehicles with petrol engine and LongLife Service may also use oils according to -VW 500- 00, 501 01 or 502 00 and vehicles with diesel engine and LongLife Service may also use oils according to -VW 505- 00 or 505 01. The Inspection Service will then apply. The service interval display must be programmed to 15,000 km (9,000 miles) / 12 months (oil grade 1).*

**WARNING**

***Petrol engines: according to -VW 500- 00, 501 01 or 502 00;
diesel engines: according to -VW 505- 00 or 505 01***

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4 Description of work

4.1 Lights, electrical equipment, switches, displays and other driver-operated controls: checking operation

- The following components must be checked:
 - ◆ Lighting, headlights, fog lights, turn signals, hazard warning lights, rear lights, rear fog light, reversing lights, brake lights, parking light function
 - ◆ Interior lights and reading lights (automatic switch-off function for front interior light), glove box lighting, ashtray light, luggage compartment lighting, ignition key light
 - ◆ Warning buzzer indicating that lights and/or radio have been left on
 - ◆ All switches on console
 - ◆ Driver Information System (DIS)
 - ◆ Instrument cluster including all displays, counters, lights and illumination
 - ◆ Dual-tone horn
 - ◆ Windscreen wiper/washer system, headlight washer system
 - ◆ Cigarette lighter
 - ◆ Electric exterior mirrors (heated, adjustable)
 - ◆ Electric window regulators
 - ◆ Sliding/tilting sunroof (electric)
 - ◆ Central locking, remote control (radio-operated), convenience close function
 - ◆ Seat heating
 - ◆ Radio

4.2 Vehicle keys: checking operation

- Open key ring to check each key individually.
- Lock and unlock the driver's door manually with each key.
- Insert each key in the ignition lock and switch on the ignition. The key symbol for the immobiliser displayed in the instrument cluster must disappear after two seconds. If the key symbol flashes, the key has not been matched to the immobiliser. ⇒ Guided Fault Finding; Matching vehicle keys



Note

Make a note in the delivery record of the number of keys which have been checked and handed over to the customer.

4.3 Windscreen wiper/washer system and headlight washer system: checking jet settings and operation



Note

If the functional check shows that the wiper blades judder or make noises, check wiper blade setting angle ⇒ [page 10](#).

4.4 Windscreen wiper/washer system: checking jet settings, adjusting jets if necessary

4.4.1 Special tools required

- ◆ Washer jet adjusting tool 3125 A with needles 3125/5



Note

Never use pins or other sharp objects as these will damage the water channels in the jet.

4.4.2 Windscreen washer jet settings

- Mark the four points on the glass using a water-soluble marker pen.
- Use the special tool 3125 A with needle 3125 / 5 to aim the individual jets at the points marked.

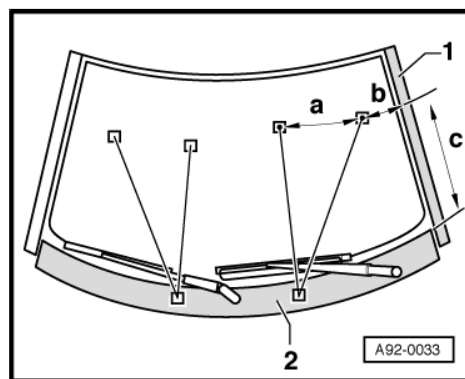
Setting dimensions:

- ◆ Distance a = 240 mm (± 50)
- ◆ Distance b = 190 mm (± 50)
- ◆ Distance c = 320 mm (± 50)



Note

- ◆ The setting dimensions for the windscreen are calculated from the water deflector -1- on the side and from the additional cover of the plenum chamber -2- from below.
- ◆ The specified settings allow for the motion of the vehicle when driving. When the vehicle is stationary the jets will spray at a slightly different angle.

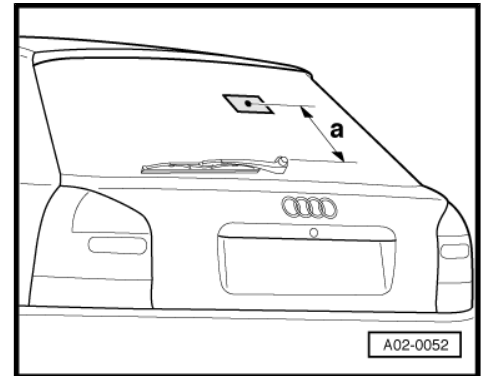


Note

If the jet of water is irregular or cannot be adjusted to the specified setting, renew the spray jet (repair measure).

4.4.3 Rear window washer jet setting

- Use special tool 3125 A to adjust the spray jet so that the water is directed onto the rear window at distance $a = 280$ mm above the wiper shaft.



4.5 Headlight washer system: checking jet settings

The headlight washer jets are set by the manufacturer and therefore do not need to be adjusted.

4.6 Wiper blades: checking park position and checking for damage

4.6.1 Park position for windscreen wiper blades

- Switch windscreen wipers on and off and let them return to their park position.
- Check that the wiper blades are in the correct position on the windscreen (marked -1-).
- Check for the following distances between tips of wiper blades and water deflector at bottom edge of windscreen:
 - ◆ Distance $a = 15 \dots 25$ mm
 - ◆ Distance $b = 17 \dots 27$ mm

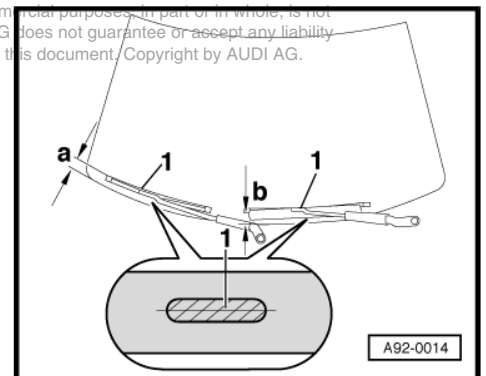


Note

The layout is symmetrically opposite for right-hand drive vehicles.

- If necessary, loosen the wiper arm, align and tighten securing nut.
- Actuate touch-wipe switch and check settings.

Tightening torque	Nm
Wiper arms to wiper shafts	16



4.6.2 Park position for rear window wiper blade

- Switch rear window wiper on and off and let it return to its park position.
- Check whether wiper blade makes contact with top edge of hatched area at bottom of rear window.

- If necessary, loosen the wiper arm, align and tighten securing nut.

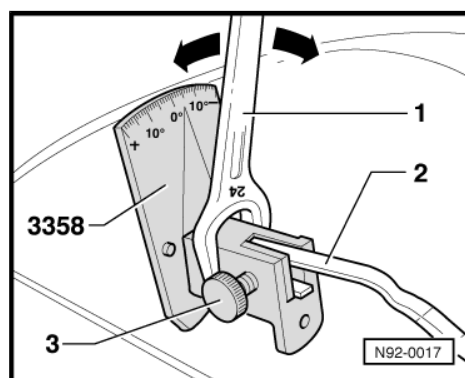
Tightening torque	Nm
Wiper blade to wiper shaft	16

4.6.3 Eliminating juddering of windscreen wipers

4.6.4 Special tools required

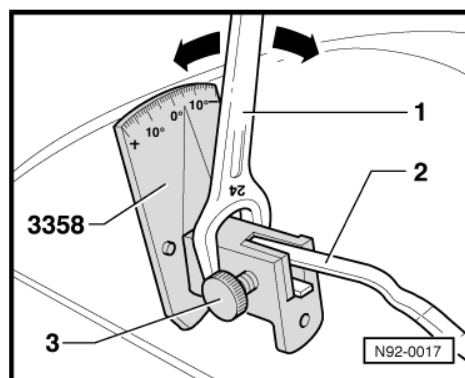
- ◆ Windscreen wiper setting tool 3358 B
- Switch windscreen wipers on and off and let them return to their park position.
- Remove wiper blade.
- Insert wiper arm -2- into windscreen wiper setting tool 3358 B and secure with locking screw -3-.
- Compare angle indicated to value specified in table.

Setting angle (specifications)		
Driver's side		- 9°
Passenger's side		- 3°
Tolerance		± 0°



4.6.5 If necessary, adjust the setting angle to the specified value as follows:

- Apply open-end spanner (24 mm) 1- to setting tool and adjust wiper arm -2- to specified value -arrows-.
- Release wiper arm -2- from setting tool and then re-secure with locking screw -3-.
- Check that value is set according to the table. If necessary, repeat setting and checking procedure until setting angle meets specification.
- Remove setting tool and fit wiper blade.
- Check wiper system operates without juddering.



4.6.6 Eliminating juddering of rear window wiper

4.6.7 Special tools required

- ◆ Wiper setting tool 3358 B

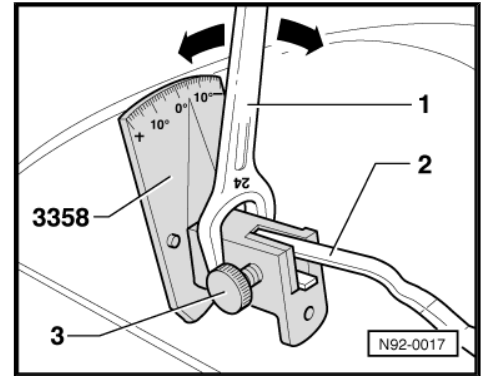
4.6.8 Checking setting angle

- Move wiper arm into park position.
- Remove wiper blade.

- Insert wiper arm -2- into wiper setting tool 3358 B and secure with locking screw -3-.
- Compare angle indicated to value specified in table.

Setting angle: Audi A3	
	0°
Tolerance	+ 2°

If angle indicated deviates from specified setting angle, adjust accordingly ⇒ [page 10](#)



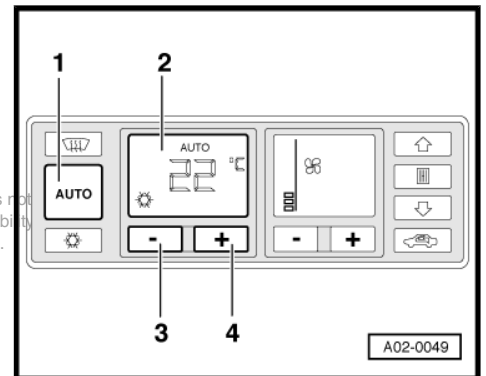
4.7 Electric windows: checking positions

The electric window regulators "forget" their current positions and the automatic open/close function when the battery is disconnected.

- Activate the automatic open/close function as follows:
- Switch on ignition.
- Close the windows all the way to their top positions using the window switches.
- Then operate all window switches again for at least one second in the „close“ direction to activate the automatic one-touch function.
- Press switch to open window. The side window should move all the way down automatically.

4.8 Air conditioner: checking operation and setting temperature to 22 °C

- Check all air conditioner functions ⇒ Owner's Manual .
- Check whether display zone -2- is set to 22 °C.
- If necessary, adjust the temperature setting as follows:
- Press button -1- for automatic operation. „AUTO“ will appear in the display -2-.
- Set temperature to 22 °C by pressing button -3- to reduce or button -4- to increase temperature accordingly.



4.9 Radio / Navigation System Plus (Chorus, Concert, Symphony): deactivating transport mode

Transport mode for the aforementioned radios was activated on vehicles built from week 18 onwards (gradual introduction).

The calendar week in which the vehicle was built is shown in the seven-digit production control number on the data sticker (see end of line „2“). The first two digits of the production control number „arrow“ indicate the week.

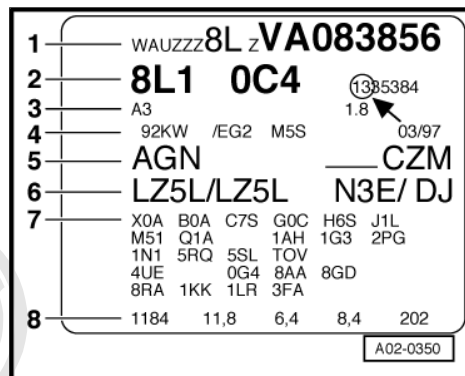
Transport mode may have been activated in „dash panel insert 17“ and „Radio 56“.

- To deactivate the transport mode (e.g. in dash panel insert 17) follow the instructions shown below.

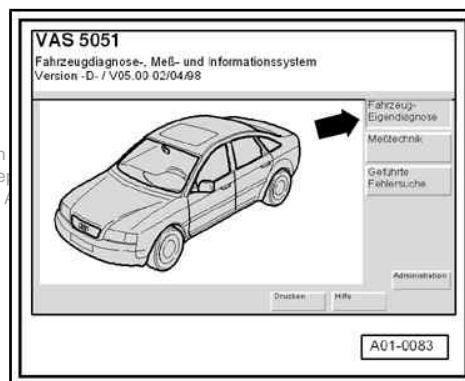
To deactivate the transport mode in Radio 56 follow the same procedure.

- ◆ Connect vehicle diagnostic, testing and information system - VAS 5051- ⇒ [page 26](#).
- Switch on ignition.

Indicated on display:



Protected by copyright. Copying for private or commercial purposes, in part or in permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept with respect to the correctness of information in this document. Copyright by Audi AG



4.9.1 Selecting operating mode:

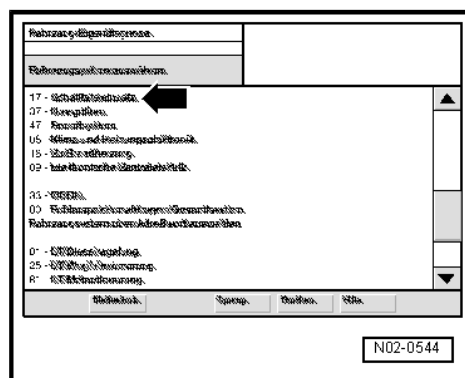
- Press button for „Vehicle self-diagnosis“ on display.



Note

If the display does not coincide with the work sequence shown:
⇒ Operating instructions for Vehicle Diagnostic, Testing and Information System VAS 5051.

Indicated on display:



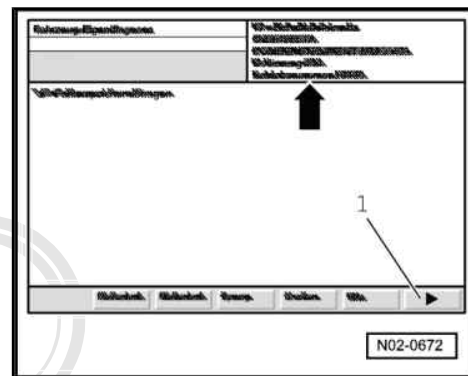
4.9.2 Selecting vehicle system:

- Press „17 - Dash panel insert“ on display -arrow-.

Indicated on display:

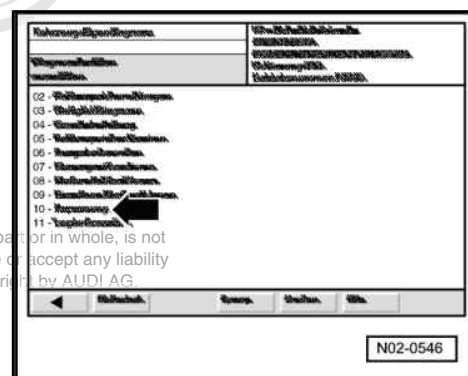
The control unit identification and coding are displayed -arrow-.

- Press arrow button -1- on the display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.



Indicated on display:

- On the number block of the display -arrow- press key 9 twice.

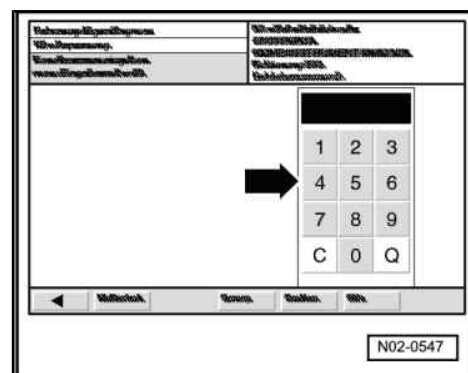
The transport mode is activated or deactivated in adaption channel 99

- Press Q key on display number block to confirm entry.



Note

- ◆ „0“ transport mode off
- ◆ „1“ transport mode on

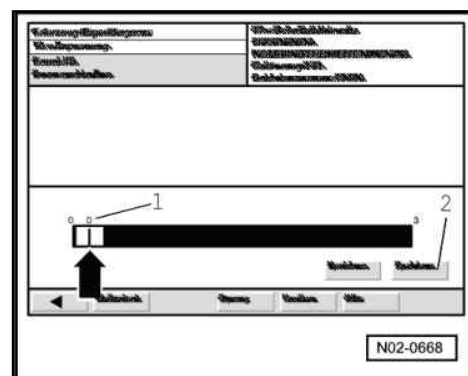


Indicated on display:

- Move the cursor -arrow- on the display to the left until "0" is displayed above the scroll bar -1-.

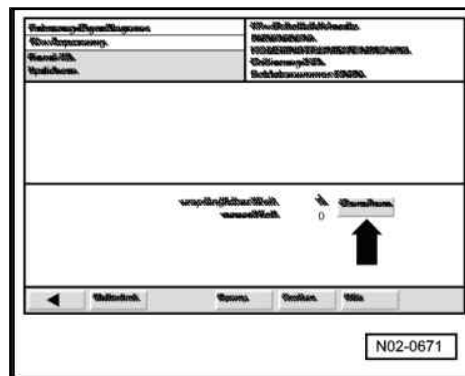
- ◆ "0" transport mode off

- Press „Save“ button -2- on the display.



Indicated on display:

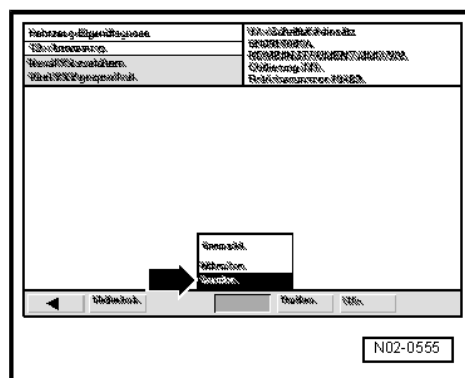
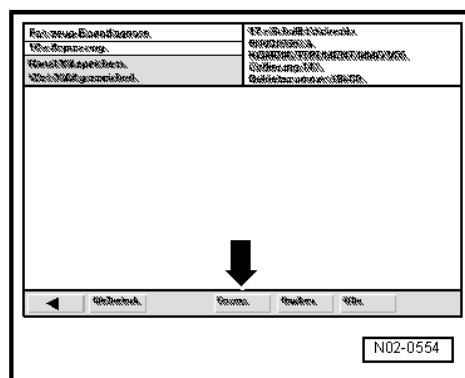
- Press „Transfer“ button on display -arrow-.



4.9.3 Ending output

Indicated on display:

- Press „Go to“ button on display -arrow-.



Indicated on display:

- Press „Exit“ button on display -arrow-.
- Press „Exit“ button in the Exit menu.
- Switch off ignition.



Note

The -VAS 5051- must remain connected for various checks and for carrying out the exhaust emissions test (if required).

4.10 Radio /Radio Navigation System Plus: activating anti-theft coding by entering fixed code number

The radio units are supplied with a fixed code. This means that each radio unit with anti-theft coding is programmed with its own code number. The fixed code is not activated by the factory.

The security coding of the ready-to-use unit is only activated by entering the fixed code.

- Activate the fixed code as follows:
- Radio „beta“, „gamma“, „delta“ ⇒ [page 15](#)
- Radio „Chorus“, „Concert“ and „Symphony“ ⇒ [page 15](#)
- Radio / Radio Navigation System plus ⇒ [page 15](#)
- Switch on radio or radio/navigation unit.

4.10.1 Radio „beta“, „gamma“, „delta“:

- Switch on radio
- Press buttons **[DX]** and **[FM]** simultaneously until „1000“ appears in the digital display. Release the buttons.
- Use radio station buttons 1 to 4 to enter the code number which appears on the adhesive radio code card. Button 1 is used to enter the first digit of the code number, button 2 for the second digit, and so on.
- Then press buttons **[DX]** and **[FM]** simultaneously again and hold down until „SAFE“ appears on the frequency display. Release the buttons. After a brief delay a frequency will appear automatically.

4.10.2 „Chorus“, „Concert“ and „Symphony“ radios:

- Press buttons **[TP]** and **[RDS]** simultaneously until „1000“ appears in the digital display. Release the buttons.

New generation of radios

- Press buttons **[RDS]** and **[SCAN]** simultaneously until „1000“ appears in the digital display. Release the buttons.

All radios:

- Use radio station buttons 1 to 4 to enter the code number which appears on the adhesive radio code card. Button 1 is used to enter the first digit of the code number, button 2 for the second digit, and so on.
- Then press buttons **[TP]** and **[RDS]** simultaneously again and hold down until „SAFE“ appears on the frequency display. (New radio generation: press buttons RDS and SCAN.) Release the buttons. After a brief delay a frequency will appear automatically.

4.10.3 Navigation System Plus:

- Press the buttons **[NAVIGATION]** and **[DISPLAY]** simultaneously and keep pressed until the code input mask appears. Release the buttons.
- Turn the rotary pushbutton to highlight the digits of the code number one after the other and confirm each digit by pressing the rotary pushbutton. The digits are entered in the 4 number zones below. The code number is attached to the device information card (operating instructions).
- Use the rotary pushbutton to highlight the „OK“ option and confirm by pressing the button. Once input has been successfully completed the unit will switch to its normal operating status.

4.11 Self-diagnosis: interrogating fault memory with -V.A.G 1551- or -VAS 5051-

4.11.1 Connect -VAS 5051- .

4.11.2 Connecting -V.A.G 1551- :

- Move selector lever to position „P“ or „N“ and apply handbrake (automatic gearbox).

- Remove cover for diagnostic connection in storage compartment in centre console (front).
- Connect fault reader -V.A.G 1551- with lead -V.A.G 1551/3- (ignition must be switched off).
- Switch on printer with **PRINT** button (indicator lamp in button lights up).

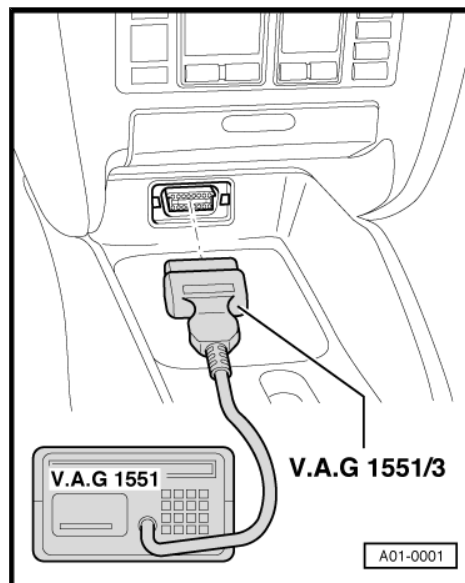
5) Indicated on display:

V.A.G - SELF-DIAGNOSIS 1 - Rapid data transfer	HELP
---	------

V.A.G - SELF-DIAGNOSIS Flash code output	HELP
---	------

5) appears alternately

- Enter „1“ for „Rapid data transfer“.



4.11.3 Interrogating fault memory:

- Start engine and run at idling speed.
- Briefly press brake pedal once.
- Enter „00“ for address word „Automatic test sequence“ and confirm entry with **Q** key. The -V.A.G 1551- sends all known address words one after the other.

When a control unit responds stating its identification the display will show the number of stored faults or „No fault recognised“.

Any system faults that are stored will be displayed one after the other and printed out. The -V.A.G 1551- will then transmit the next address word.

6) The automatic test sequence has ended when the following is indicated on the display:

V.A.G - SELF-DIAGNOSIS 1 - Rapid data transfer	HELP
---	------

V.A.G - SELF-DIAGNOSIS Flash code output	HELP
---	------

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

6) appears alternately

- Switch off ignition.

If faults have been stored these must be rectified. The fault log is required for the repair work.



Note

The -V.A.G 1551- or -VAS 5051- must remain connected for re-setting the service interval display and carrying out the exhaust emissions test (if required).

4.12 Instrument cluster: setting the language

4.12.1 Vehicles with Driver Information System (DIS)

When a car is delivered to the customer, the multifunction monitor display can be set to any of the following languages as required:

German, English, French, Italian, Spanish, Portuguese

Cars are delivered by the factory with the multifunction monitor set to German.

- To change the language proceed as follows:

4.12.2 Connect -VAS 5051- .

4.12.3 Connect -V.A.G 1551- .

- Switch on ignition.
- Enter „1“ for „Rapid data transfer“.
- Enter „17“ to select the address word „Dash panel insert“ and confirm entry with  key.
- Press  key twice to continue.
- Enter „10“ to select the function „Adaption“ and confirm entry with  key.
- Enter „04“ to select „Adaption channel 04“ and confirm entry with  key.

When the following is indicated on the display:

Channel 4	Adaption	2	->
		-	↑ - ↓ -

- Press  key to continue.

Indicated on display:

Channel 4	Adaption	2	Q
Enter adaption value XXXXX			

- Select desired language according to the following table.

Language version	Code
German	00001
English	00002
French	00003
Italian	00004
Spanish	00005
Portuguese	00006



Note

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

- ◆ *The first four digits must be „0“.*
- ◆ *If an incorrect value is entered the function „Adaption“ will be terminated automatically and must be restarted!*

Example:

- Enter „00001“ (e.g. for German).

When the following is indicated on the display:

Channel 4	Adaption	2	Q
Enter adaption value 00001			

- Confirm entry with **[Q]** key.

When the following is indicated on the display:

Channel 4	Adaption	1	Q
		- ↑ - ↓ -	

- Confirm entry with **[Q]** key.

When the following is indicated on the display:

Channel 4	Adaption	1	Q
Store changed value?			

- Confirm entry with **[Q]** key.

When the following is indicated on the display:

Channel 4	Adaption	1	->
Changed value is stored			

- Terminate adaption of the language version by pressing the → key.

Indicated on display:

Rapid data transfer	HELP
Select function XX	

4.13 Service interval display: resetting

The service interval display must be reset during the Delivery Inspection and also after each Oil Change or Inspection Service.

4.13.1 Delivery Inspection

The service interval display can be reset using one of two methods:

- ◆ Using the adjustment buttons for the trip recorder and clock on the dash panel insert
- Reset „serviceOIL“ and „serviceINSP“ ⇒ [page 20](#) .

or

- ◆ With fault reader -V.A.G 1551/1552-
- Select adaption channel 02 and enter adaption value „00000“ ⇒ [page 19](#) .



Note

The service interval display can only be reset using - V.A.G 1551/1552- (adaption channel 02), if the dash panel insert has data level D05 or newer.

4.13.2 Oil Change Service or Inspection Service

When a service is due, this will be indicated in the trip recorder display once the ignition is switched on. The display will continue flashing for about 60 seconds after starting the engine.

Language version		Type of
German	Other languages	Service due
serviceOIL	serviceOIL	Oil Change Service
serviceINSP	serviceINSP	Inspection Service

The service interval display will appear 1,000 km or 10 days before the next service is due.

 Note

The service interval display can only be reset using - V.A.G 1551/1552- (adaption channel 02), if the dash panel insert has data level D05 or newer.

- Connect -V.A.G 1551- [⇒ page 15](#) .
- Switch on ignition.

7) Indicated on display:

V.A.G - SELF-DIAGNOSIS 1 - Rapid data transfer	HELP
---	------

V.A.G - SELF-DIAGNOSIS 2 - Flash code output	HELP
---	------

7) appears alternately

- Enter „1“ for „Rapid data transfer“.

When the following is indicated on the display:

Rapid data transfer Enter address word XX	HELP
--	------

- Enter „17“ to select the address word „Dash panel insert“ and confirm entry with  key.

When the following is indicated on the display (example):

8L0919860A FROM COMBI-INSTR. UN4 D05 - > Coding 12042	WSC 12345
---	-----------

- Check data level of dash panel insert:

Vehicles > 1997 and dash panel insert with data level up to D04:

- Reset service interval display via adjustment buttons for trip recorder and clock on dash panel insert [⇒ page 20](#) .

Vehicles > 1997 and dash panel insert with data level from D05 and vehicles 1998 >, all models:

- Reset service interval display using fault reader -V.A.G 1551- [⇒ page 19](#) .

or

- Reset service interval display via adjustment buttons for trip recorder and clock on dash panel insert [⇒ page 20](#) .

4.13.3 Resetting SID with -V.A.G 1551-

- Press  key to continue.
- Enter „10“ to select the function „Adaption“ and confirm entry with  key.

When the following is indicated on the display:

Adaption Enter channel no. XX

- Enter „02“ to select „Adaption channel 02“ and confirm entry with  key.

Indicated on display: type of service which is due, example: 11

Channel 2	Adaption	11	->
		- ↑ - ↓ -	

0 - means that no service is due

1 - means that an Oil Change Service is due

10 - means that an Inspection Service is due

11 - means that an Oil Change Service and Inspection Service is due

- Press the  key.

When the following is indicated on the display:

Channel 2	Adaption	11	Q
Enter adaption value XXXXX			

- After completing the service enter the adaption value as follows:

Adaption value	Service completed
00000	Delivery Inspection
00000	serviceOIL and serviceINSP
00010	serviceOIL
00001	serviceINSP

Example:

- Enter „00000“.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

Indicated on display (example):

Channel 2	Adaption	11	Q
Enter adaption value		00000	

- Confirm entry with key.

Indicated on display:

Channel 2	Adaption	0	Q
		- 1 -	-

- Confirm entry with key.

When the following is indicated on the display:

Channel 2	Adaption	0	Q
Store changed value?			

- Confirm entry with key.

When the following is indicated on the display:

Channel 2	Adaption	0	->
Changed value is stored			

- Terminate resetting of service interval display by pressing the key.

Indicated on display:

Rapid data transfer	HELP
Select function XX	

4.13.4 Resetting SID with the adjuster buttons for trip recorder and clock

- Switch off ignition.
- Press the reset button for the trip recorder -2- on the dash panel insert and at the same time switch on the ignition.

The display of trip recorder -3- shows: „serviceOIL“.

- Release the button.
- Pull out clock adjuster knob -1- in dash panel insert for approx. 2 seconds to reset „serviceOIL“.

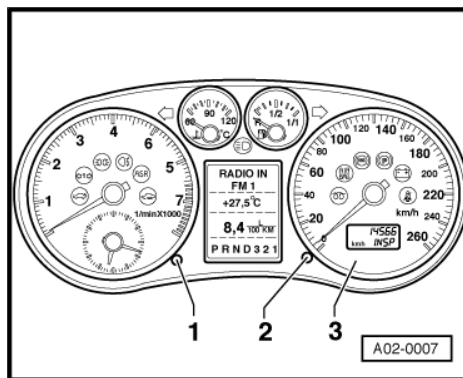


Note

Depending on data level of dash panel insert the trip recorder display will either continue to show „serviceOIL“ or it will display „- - -“.

- Press the reset button for the trip recorder -2- again to call up the next type of service.
- Release the button.

The display of trip recorder -3- shows: „serviceINSP“.

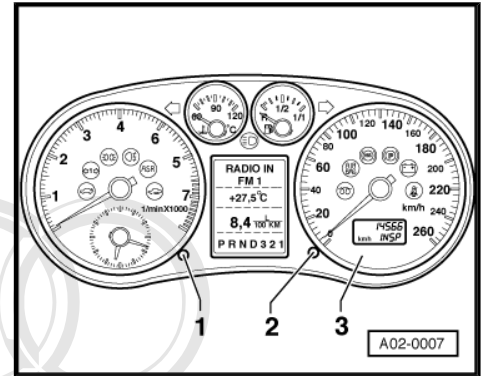


- Pull out clock adjuster knob -1- in dash panel insert for approx. 2 seconds to reset „serviceINSP“.

 Note

Depending on data level of dash panel insert the trip recorder display will either continue to show „serviceINSP“ or it will display „---“.

- Switch off ignition.



4.14 Service interval display: resetting Long-Life Service as from model year 2000 > -Y-

4.14.1 Resetting the service interval display after completing a service for Audi A3 as from chassis No. 8LYA 000 001

Resetting service interval display with

- ♦ Vehicle diagnostic, testing and information system -VAS 5051-
⇒ [page 26](#)

or with the

- ♦ Fault reader -V.A.G 1551- ⇒ as described below.

Please note:

If resetting is performed without -V.A.G 1551- or -VAS 5051- , this will automatically set fixed intervals for servicing.

Indicated on display:

- Press keys 1 and 0 and confirm with the  key.

Indicated on display:

- Confirm entry with  key.

Indicated on the display:

- Press keys 0 and 2.
- Confirm entry with  key.

Rapid data transfer Select function XX	HELP
---	------

Rapid data transfer 10 - Adaption	Q
--------------------------------------	---

Adaption Enter channel no. XX



Note

- ◆ The service interval display serves to remind the driver that a service is due. It is shown in the centre display.
- ◆ The service reminder will first appear 1 month or 2,000 km before the next service is due. The distance indicated decreases by 100 km at a time. Example: after covering a total mileage of 28,700 km the display will show „SERVICE IN 1300 km“.
- ◆ The remaining mileage to the service can be called up via the menu in the centre display by pressing the clock reset button once.
- ◆ Once a service is due, an appropriate text message will be shown in the centre display for about 5 seconds when the ignition is switched on. It is displayed after the automatic gear-box info and after entering a destination in the navigation system (if applicable). Display shows: „SERVICE!“

Indicated on display: type of service which is due

Channel 2	Adaption	1	->
-----------	----------	---	----

1 - means that Service is active, i.e. the instrument cluster display shows „SERVICE!“.



Note

The service interval display must only be reset by direct numerical input.

- Press  key.

Indicated on the display:

Channel 2	Adaption	1
Enter adaption value XXXXX		

The Service is reset by entering the following adaption values:

Adaption value	Service setting
00000	Resetting

- Use the keypad to enter the correct adaption value -00000- to delete the service.
- Press key "0" five times.

Indicated on the display:

Channel 2	Adaption	0	Q
-----------	----------	---	---

Indicated on the display:

Channel 2	Adaption	1	Q
Enter adaption value		00000	

- Confirm entry with  key.

Indicated on the display:

Channel 2	Adaption	0	Q
-----------	----------	---	---

0 - means that the Service has been reset, i.e. the instrument cluster display will show „SERVICE IN 15000 km“ once the entry has been confirmed with the  key.

 Note

To begin with, the service interval display will show the starting value of 15,000 km. The conversion to the higher mileage (e.g. up to 50,000 km for 4-cyl. diesel engines) only takes place when the vehicle is driven.

- Confirm entry with  key.

Indicated on the display:

Channel 2	Adaption	0	Q
Store changed value?			

- Confirm entry with  key.

Indicated on the display:

Channel 2	Adaption	0	->
Changed value is stored			

- Press  key to complete resetting of service interval display.

4.14.2 Checking or changing adaption values

After resetting the service interval display the following channels and adaption values (for the engine version relevant to the vehicle) must be checked or changed.

4.14.3 Table of channels and adaption values

Channel 42 (min. mileage)	15,000 km
Channel 43 (max. mileage) petrol engines	30,000 km
Channel 43 (max. mileage) 4-cyl. diesel engines unit injector engines from week 18 onwards, model year 01	50,000 km
Channel 44 (max. time interval to next due service)	730 days
Channel 45 (oil grade for max. mileage of 30,000 km)	2
Channel 45 (oil grade for 4-cyl. diesel engines, max. mileage of 50,000 km) unit injector engines as from wk 18 model year 01	4

Procedure for correction of adaption values:

- ◆ [⇒ page 23](#) , Channel 42 (min. mileage)
- ◆ [⇒ page 24](#) , Channel 43 (max. mileage)
- ◆ [⇒ page 24](#) , Channel 44 (max. time interval to next due service)
- ◆ [⇒ page 25](#) , Channel 45 (oil grade for max. mileage)

4.14.4 Minimum mileage

This function specifies a minimum mileage (shown in km) for the service interval display in the instrument cluster.

Indicated on display:

Rapid data transfer Select function XX	HELP
---	------

- Press keys 1 and 0 and confirm with the  key.

Indicated on display:

Rapid data transfer 10 - Adaption	Q
--------------------------------------	---

- Confirm entry with  key.

Indicated on the display:

- Press keys 4 and 2.
- Confirm entry with **Q** key.

Indicated on display: minimum mileage in km before the next service is due (in this example: 15 = 15,000 km).

Adaption
Enter channel no. XX

Channel 42	Adaption	15	->
min. val. oil in 1,000 km			



Note

- ♦ The specification must be entered in steps of 1,000 km. Accordingly, the display will also only show the figure in steps of 1,000 km.
- ♦ When using the keypad on the fault reader, only direct numerical input is possible!
- ♦ If an incorrect value is entered, the function „Adaption“ will be terminated automatically and must be restarted!

4.14.5 Maximum mileage

This function specifies a maximum mileage (shown in km) for the service interval display in the instrument cluster.

Indicated on display:

- Press keys 1 and 0 and confirm with the **Q** key.

Indicated on display:

- Confirm entry with **Q** key.

Indicated on the display:

Rapid data transfer
Select function XX HELP

Rapid data transfer 10 - Adaption	Q
--------------------------------------	---

Adaption
Enter channel no. XX

- Press keys 4 and 3.
- Confirm entry with **Q** key.

Indicated on display: maximum mileage in km before the next service is due (in this example: 30 = 30,000 km).

Channel 43	Adaption	30	->
max. val. oil in 1,000 km		(- 1	3



Note

- ♦ The value entered for the correct engine version must correspond with the value specified in the table ⇒ [page 23](#).
- ♦ The specification must be entered in steps of 1,000 km. Accordingly, the display will also only show the figure in steps of 1,000 km.
- ♦ When using the keypad on the fault reader, only direct numerical input is possible!
- ♦ If an incorrect value is entered, the function „Adaption“ will be terminated automatically and must be restarted!

4.14.6 Maximum time interval

This function specifies a maximum interval (shown in days) for the service interval display in the instrument cluster.

Indicated on display:

Rapid data transfer
Select function XX HELP

- Press keys 1 and 0 and confirm with the  key.

Indicated on display:

Rapid data transfer 10 - Adaption	Q
--------------------------------------	---

- Confirm entry with  key.

Indicated on the display:

Adaption Enter channel no. XX

- Press keys 4 and 4.
- Confirm entry with  key.
- Indicated on display: maximum interval in days before the next service is due (in this example: 730 = 730 days).

Channel 44	Adaption	730	-
> max. val. Insp. in 1 days		(- 1 3-L)	



Note

- ◆ *The value entered for the correct engine version must correspond with the value specified in the table [⇒ page 23](#).*
- ◆ *The specification must be entered in days. Accordingly, the display will also only show the figure in days.*
- ◆ *When using the keypad on the fault reader, only direct numerical input is possible!*
- ◆ *If an incorrect value is entered, the function „Adaption“ will be terminated automatically and must be restarted!*

4.14.7 Adaption of oil grade

Indicated on display:

Rapid data transfer Select function XX	HELP
---	------

- Press keys 1 and 0 and confirm with the  key.

Indicated on display:

Rapid data transfer 10 - Adaption	Q
--------------------------------------	---

- Confirm entry with  key.

Indicated on the display:

Adaption Enter channel no. XX

- Press keys 4 and 5.
- Confirm entry with  key.



Note

- ◆ *The oil used for the vehicle has to be adapted after each Service.*
- ◆ *Settings for the adaption value range from 1-4. Each value from 1-4 is linked with a max. mileage (channel 43) and max. time interval (channel 44).*
- ◆ *The value entered for the correct engine version must correspond with the value specified in the table [⇒ page 23](#).*

4.14.8 Resetting the service interval display (VAS 5051)

4.14.9 Special tools, testers and auxiliary items required

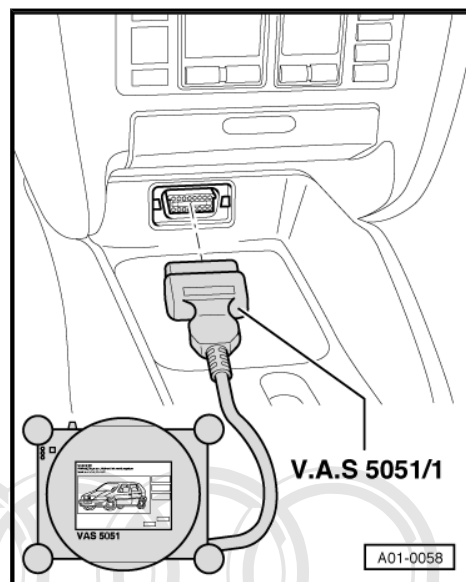
- ◆ -VAS 5051- Vehicle diagnostic, testing and information system
- ◆ -VAS 5051/3- Adapter lead

4.14.10 Connecting vehicle diagnostic, testing and information system -VAS 5051-

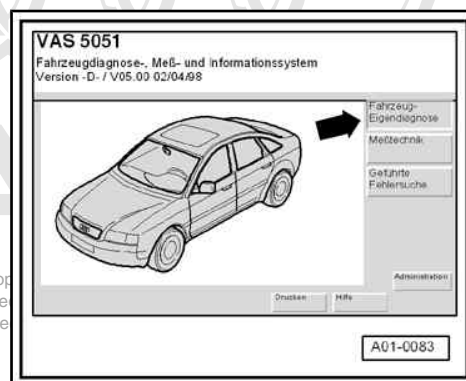
- Apply handbrake.
- Automatic gearbox: selector lever to position „P“ or „N“.
- Manual gearbox: gear lever in neutral.

With ignition switched off, connect -VAS 5051- as follows:

- With ignition switched off connect -VAS 5051- using adapter lead -VAS 5051/3- .
- Switch on ignition.



Indicated on display:



Protected by copyright. Copying is not permitted unless authorised in writing with respect to the copyright holder.

is not permitted unless authorised in writing with respect to the copyright holder.

4.14.11 Selecting operating mode:

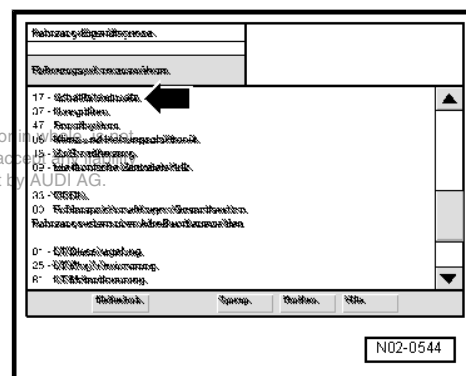
- Press button for „vehicle self-diagnosis“ on display -arrow-.

 Note

*If the display does not coincide with the work sequence shown:
⇒ Operating instructions for Vehicle Diagnostic, Testing and Information System VAS 5051.*

Indicated on display:

Protected by copyright. Copying for private or commercial purposes, in part or in full, is permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept responsibility with respect to the correctness of information in this document. Copyright by AUDI AG.



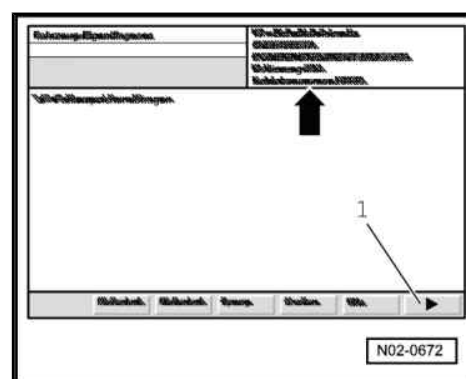
4.14.12 Selecting vehicle system:

- Press „17 - Dash panel insert“ on display -arrow-.

Indicated on display:

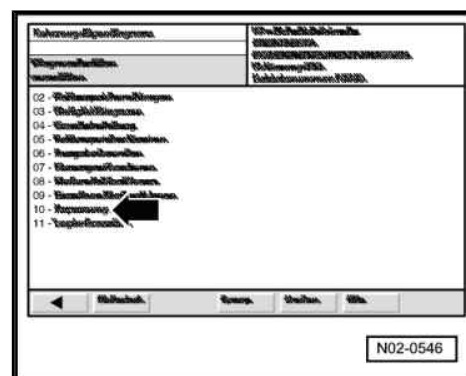
The control unit identification and coding are displayed -arrow-.

- Press arrow button -1- on the display.



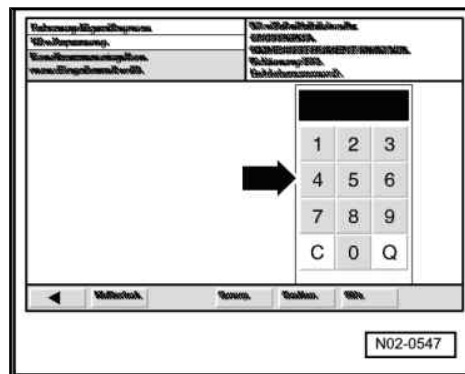
Indicated on display:

- Press „10 - Adaption“ on display -arrow-.



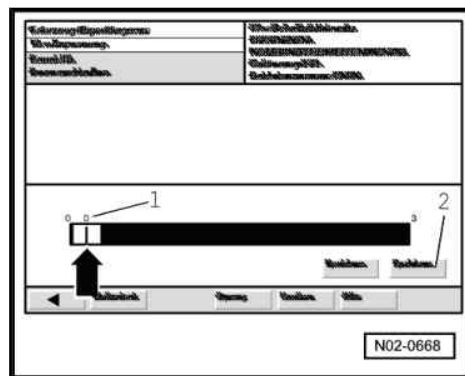
Indicated on display:

- Press keys [0] and [2] on display number block -arrow-.
- The service interval display is reset via adaption channel 02.
- Press Q key on display number block to confirm entry.



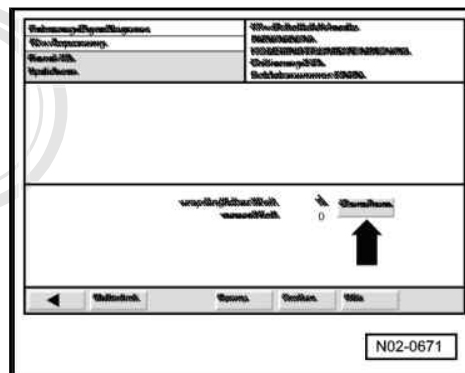
Indicated on display:

- Move the cursor -arrow- on the display to the left until "0" is displayed above the scroll bar -1-.
- Press „Save“ button -2- on the display.



Indicated on display:

- Press „Transfer“ button on display -arrow-.

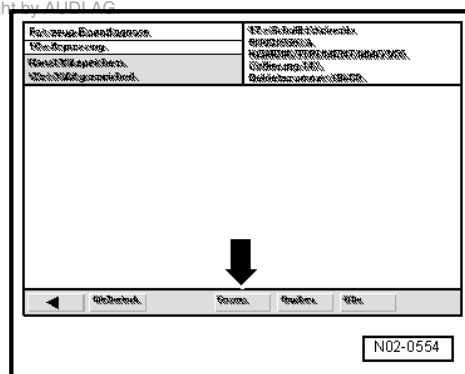


4.14.13 Ending output

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

Indicated on display:

- Press „Go to“ button on display -arrow-.



Indicated on display:

- Press „Exit“ button on display -arrow-.
- Press „Exit“ button in the Exit menu.
- Switch off ignition and detach diagnostic connector.



Note

The -VAS 5051- must remain connected for checking the adaption values ➔ [page 29](#) and for carrying out the exhaust emissions test (if required).

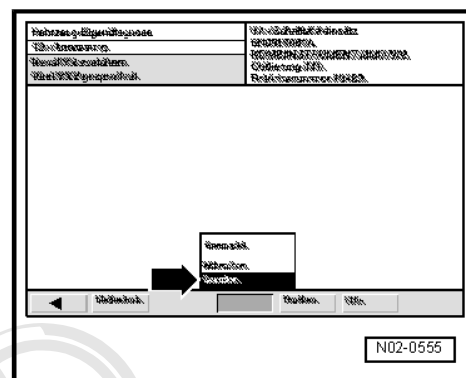
- Switch on ignition.

After switching on the ignition, the mileage display in the instrument cluster will no longer indicate that a service is due.

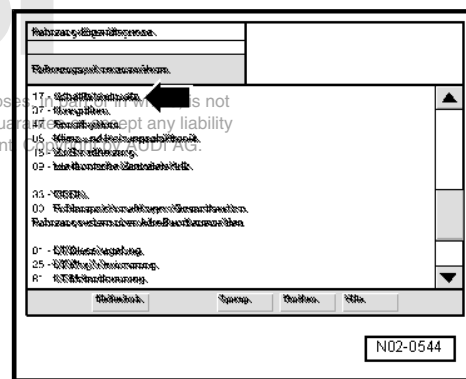
4.14.14 Checking or changing adaption values

- Connect -VAS 5051- ➔ [page 26](#) .

Indicated on display:



Protected by copyright. Copying for private or commercial purposes without permission is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee the correctness of information in this document with respect to the correctness of information in this document. AUDI AG.



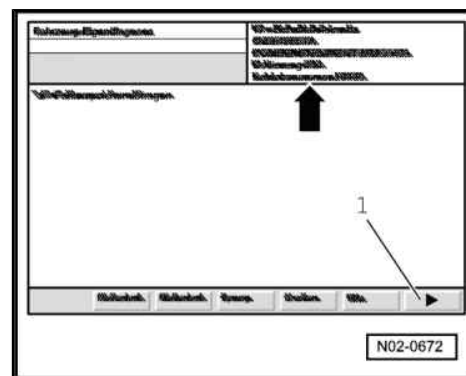
4.14.15 Selecting vehicle system:

- Press „17 - Dash panel insert“ on display -arrow-.

Indicated on display:

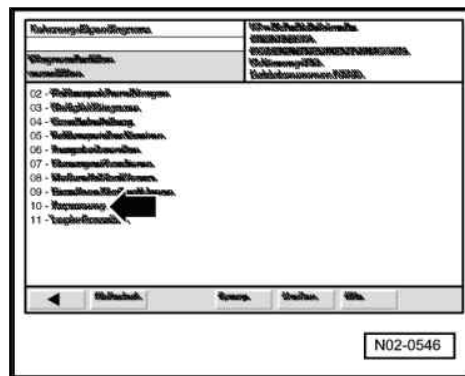
The control unit identification and coding are displayed -arrow-.

- Press arrow button -1- on the display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.

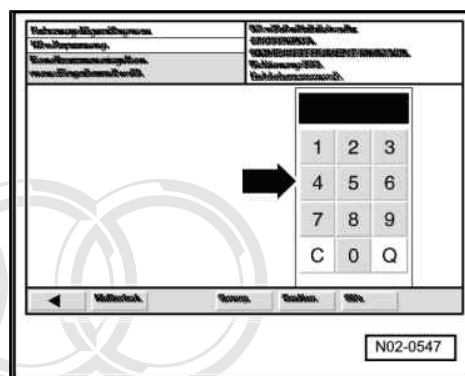


Indicated on display:

- Press keys [4] and [5] on display number block -arrow-.

Adaption channel 45 is used to adapt the dash panel insert to the oil grade.

- Press Q key on display number block to confirm entry.



Indicated on display:

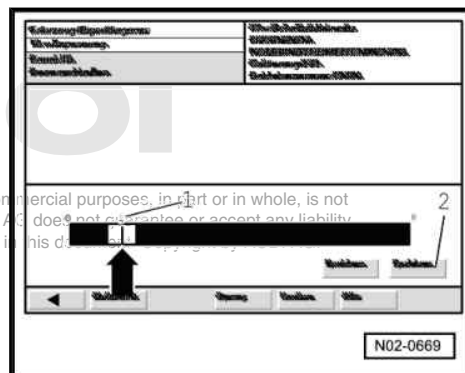
- Move the cursor -arrow- on the display to the left until adaption value 2 is displayed above the scroll bar -1-.



Note

The adaption value in the top line indicates the current status of the service interval display:

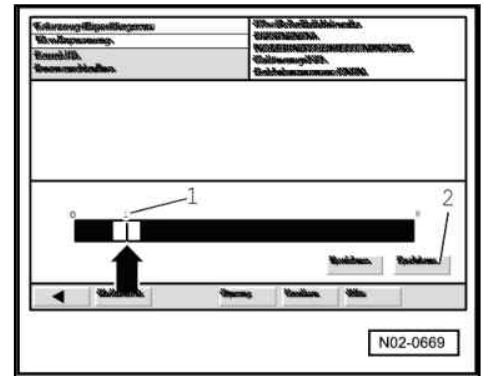
Channel 45 (oil grade for petrol engines max. mileage 30,000 km)	2
Channel 45 (oil grade for 4-cyl. diesel engines, max. mileage: 50,000 km) unit injector engines as from wk 18 model year 01	4



Note

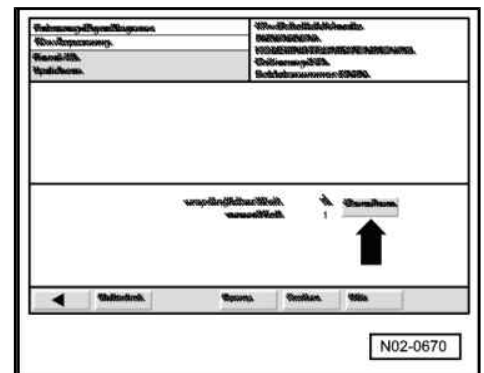
Encode flexible service interval (LongLife Service) on dash panel insert. For petrol engines enter adaption value 2, for 4-cyl. diesel engines (unit injector engines, as from wk 18 model yr. 01) enter adaption value 4.

- Press „Save“ button -2- on the display.



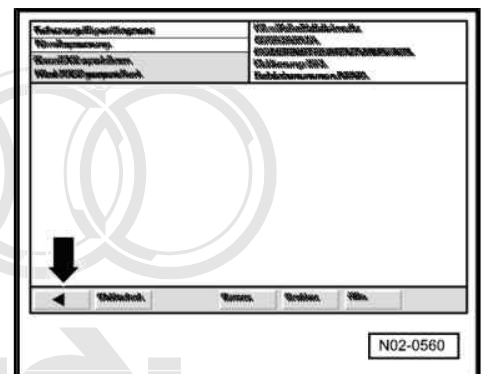
Indicated on display:

- Press „Transfer“ button on display -arrow-.



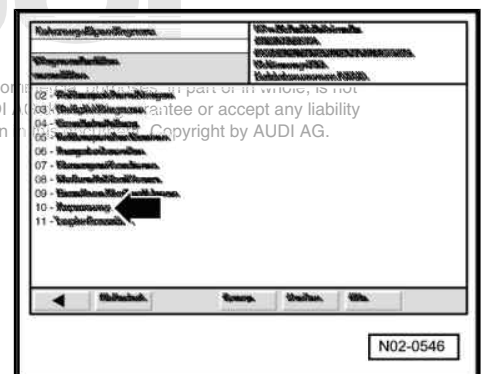
Indicated on display:

- Press -arrow- button on display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.



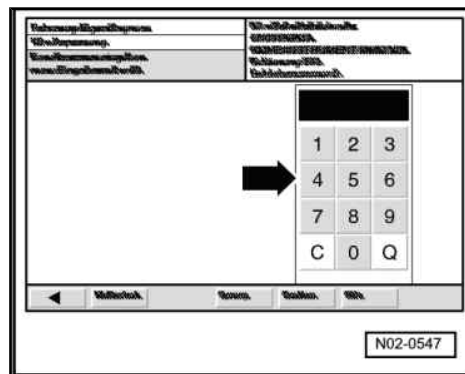
Protected by copyright. Copying for private or commercial use, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not accept any liability with respect to the correctness of information. Copyright by AUDI AG.

Indicated on display:

- Press keys  and  on display number block -arrow-.

Adaption channel 44 is used to adapt the time interval which may elapse before the next service is due.

- Press Q key on display number block to confirm entry.



Indicated on display:

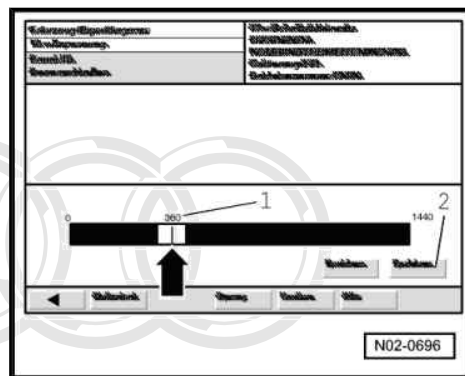
- Move the cursor -arrow- on the display to the left until adaption value 730 is displayed above the scroll bar -1-.



Note

The adaption value displays the maximum time interval which may elapse before the next service is due.

Channel 44 (max. time interval to next due service)	730 days
---	----------

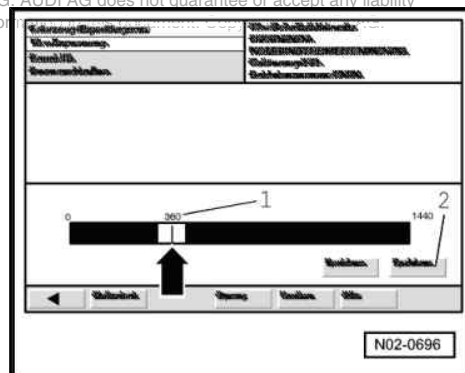


Note

Encode flexible service interval (LongLife Service) on instrument cluster. Enter adaption value 730.

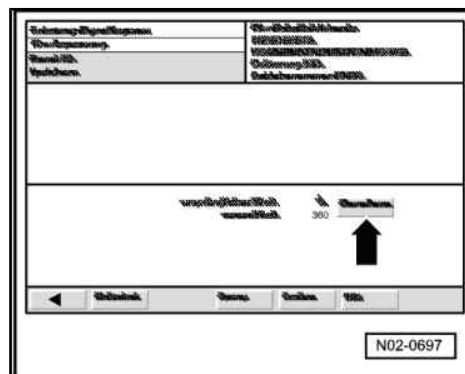
Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information.

- Press „Save“ button -2- on the display.



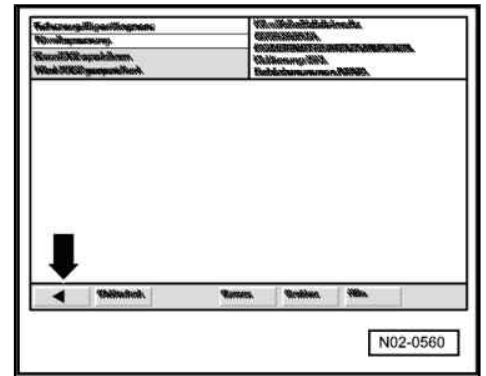
Indicated on display:

- Press „Transfer“ button on display -arrow-.



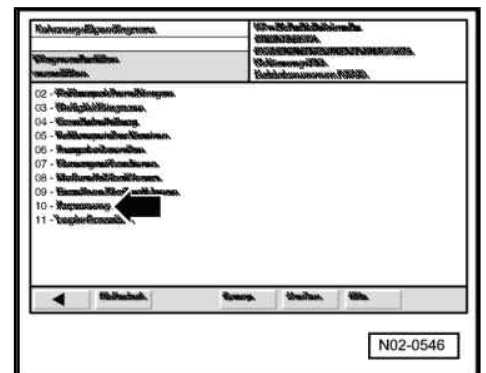
Indicated on display:

- Press -arrow- button on display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.

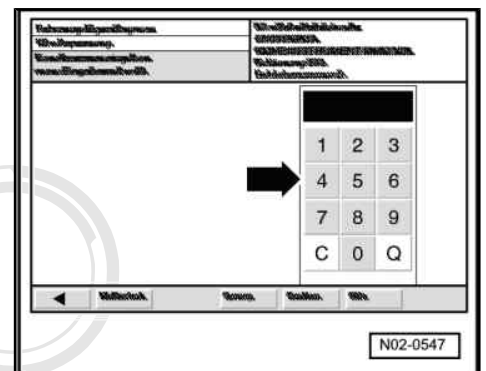


Indicated on display:

- Press keys [4] and [3] on display number block -arrow-.

Adaption channel 43 is used to adapt the maximum mileage which can be covered before the next service is due.

- Press Q key on display number block to confirm entry.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

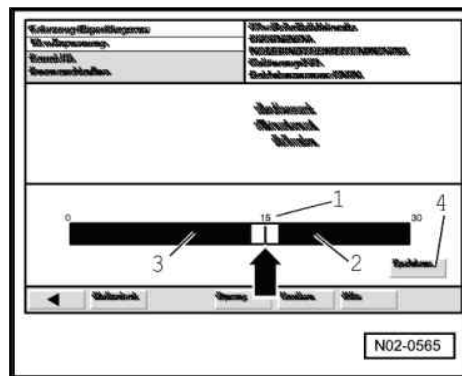
Indicated on display:

- Move the cursor -arrow- on the display to the left until adaption value 30 is displayed above the scroll bar -1-.



Note

- ◆ Briefly press the scroll bar -2- to the right of the cursor to increment the figure by one.
- ◆ Briefly press the scroll bar -3- to the left of the cursor to reduce the figure by one.
- ◆ The adaption value in the top line indicates the maximum mileage which can be covered before the next service is due.



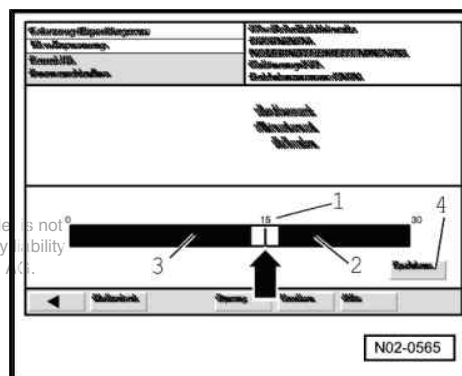
Channel 43 (max. mileage) petrol engines	30,000 km
Channel 43 (max. mileage) 4-cyl. diesel engines (unit injector engines as from wk 18 model year 01)	50,000 km



Note

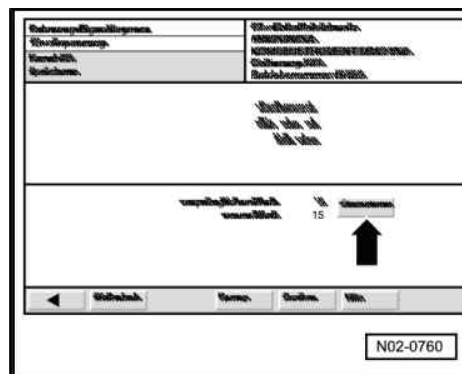
Encode flexible service interval (LongLife Service) on dash panel insert. For petrol engines enter adaption value 30, for 4-cyl. diesel engines (unit injector engines, as from wk 18 model yr. 01) enter adaption value 50.

- Press „Save“ button -4- on the display.



Indicated on display:

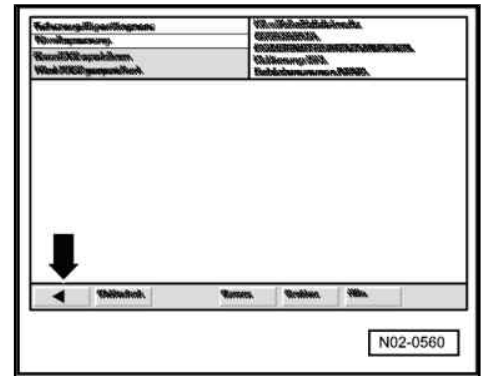
- Press „Transfer“ button on display -arrow-.



Protected by copyright. Copying for private or commercial purposes, in part or in whole is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

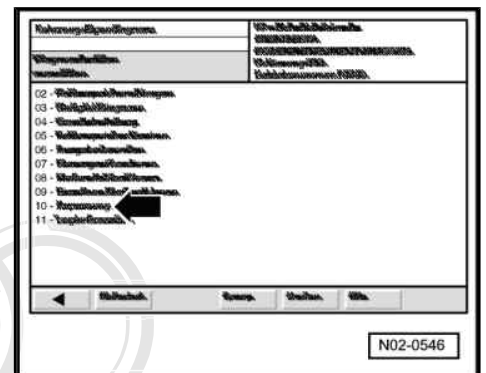
Indicated on display:

- Press -arrow- button on display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.

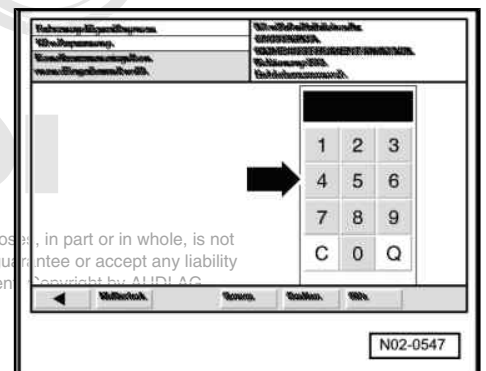


Indicated on display:

- Press keys [4] and [2] on display number block -arrow-.

Adaption channel 42 is used to adapt the minimum mileage before the next service is due.

- Press Q key on display number block to confirm entry.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG

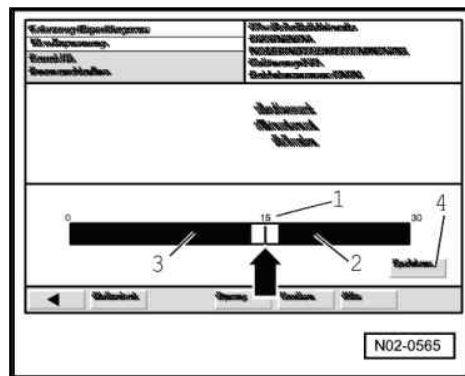
Indicated on display:

- Move the cursor -arrow- on the display to the left until adaption value 15 is displayed above the scroll bar -1-.



Note

- ◆ Briefly press the scroll bar -2- to the right of the cursor to increment the figure by one.
- ◆ Briefly press the scroll bar -3- to the left of the cursor to reduce the figure by one.
- ◆ The adaption value in the top line indicates the minimum mileage before the next service is due.



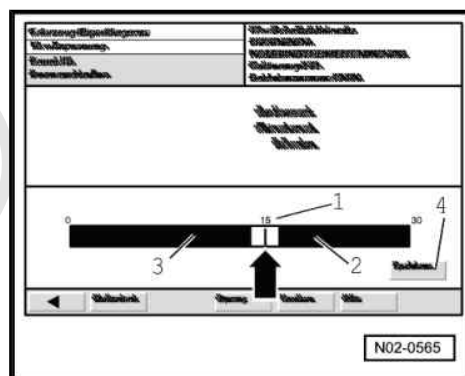
Channel 42 (min. mileage)	15,000 km
---------------------------	-----------



Note

Encode flexible service interval (LongLife Service) on instrument cluster. Enter adaption value 15.

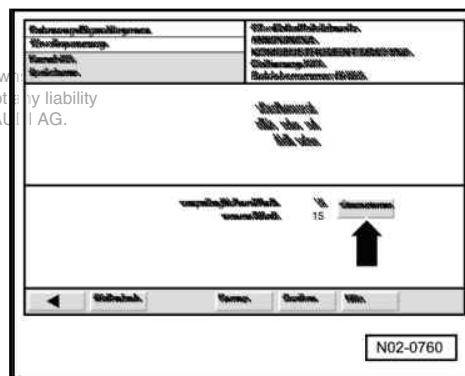
- Press „Save“ button -4- on the display.



Indicated on display:

- Press „Transfer“ button on display -arrow-.

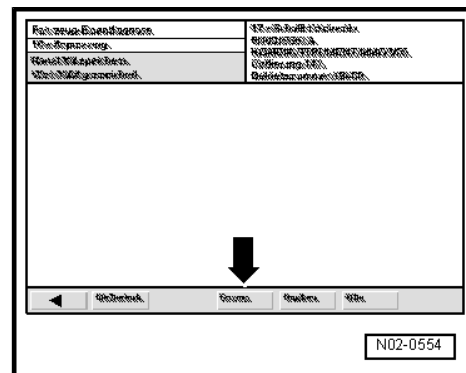
Copyright © 2012 Audi AG. All rights reserved. No part of this document may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or by any information storage and retrieval system, without prior written permission from Audi AG. Audi AG does not guarantee or accept liability with respect to the correctness of information in this document. Copyright by Audi AG.



4.14.16 Ending output

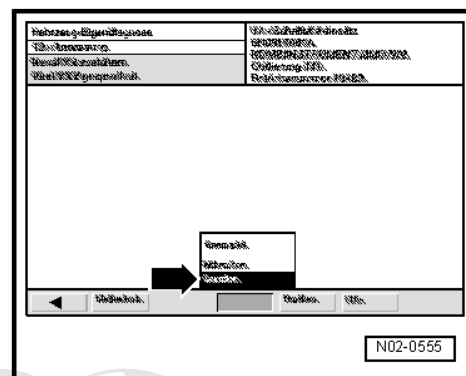
Indicated on display:

- Press „Go to“ button on display -arrow-.



Indicated on display:

- Press „Exit“ button on display -arrow-.
- Press „Exit“ button in the Exit menu.
- Switch off ignition and detach diagnostic connector.



4.15 Service interval display: resetting Inspection Service (fixed interval) as from model year 2000 > -Y-

4.15.1 Resetting the service interval display after completing a service for Audi A3 as from chassis No. 8LYA 000 001

Resetting service interval display with

- ◆ Fault reader -V.A.G 1551- [⇒ page 37](#) by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.
- ◆ Vehicle diagnostic, testing and information system -VAS 5051- [⇒ page 39](#)
- ◆ Resetting without using -V.A.G 1551- or -VAS 5051- [⇒ page 50](#)

Indicated on display:

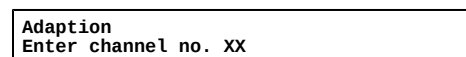
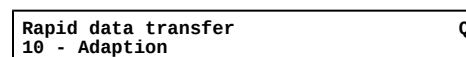
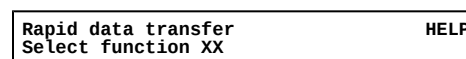
- Press keys 1 and 0 and confirm with the  key.

Indicated on display:

- Confirm entry with  key.

Indicated on the display:

- Press keys 0 and 2.
- Confirm entry with  key.





Note

- ◆ The service interval display serves to remind the driver that a service is due. It is shown in the centre display.
- ◆ The service reminder will first appear 1 month or 2,000 km before the next service is due. The distance indicated decreases by 100 km at a time. Example: after covering a total mileage of 13,700 km the display will show „SERVICE IN 1300 km“.
- ◆ The remaining mileage to the service can be called up via the menu in the centre display by pressing the clock reset button once.
- ◆ Once a service is due, an appropriate text message will be shown in the centre display for about 5 seconds when the ignition is switched on. It is displayed after the automatic gearbox info and after entering a destination in the navigation system (if applicable). Display shows: „SERVICE!“

Indicated on display: type of service which is due

1 - means that Service is active, i.e. the instrument cluster display shows „SERVICE!“.

Channel 2	Adaption	1	->
-----------	----------	---	----



Note

The service interval display must only be reset by direct numerical input.

- Press  key.

Indicated on the display:

Copyright. Copying for private or commercial purposes, in part or in whole, is permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

The Service is reset by entering the following adaption values:

Adaption value	Service setting
00000	Resetting

- Use the keypad to enter the correct adaption value -00000- to delete the service.
- Press key "0" five times.

Indicated on the display:

- Confirm entry with  key.

Indicated on the display:

0 - means that the Service has been reset, i.e. the instrument cluster display will show „SERVICE IN 15000 km“ once the entry has been confirmed with the  key.

- Confirm entry with  key.

Indicated on the display:

- Confirm entry with  key.

Indicated on the display:

- Press  key to complete resetting of service interval display.

Channel 2	Adaption	1	
Enter adaption value	XXXXX		

Channel 2	Adaption	1	Q
Enter adaption value	00000		

Channel 2	Adaption	0	Q
-----------	----------	---	---

Channel 2	Adaption	0	Q
Store changed value?			

Channel 2	Adaption	0	->
Changed value is stored			

4.15.2 Checking or changing adaption values

After resetting the service interval display the following channels and adaption values must be checked or changed.

4.15.3 Table of channels and adaption values

Channel 42 (min. mileage)	15,000 km
Channel 43 (max. mileage)	15,000 km
Channel 44 (max. time interval to next due service)	365 days
Channel 45 (oil grade)	1

Procedure for correction of adaption values:

- ◆ ⇒ [page 23](#) , Channel 42 (min. mileage)
- ◆ ⇒ [page 24](#) , Channel 43 (max. mileage)
- ◆ ⇒ [page 24](#) , Channel 44 (max. time interval to next due service)
- ◆ ⇒ [page 25](#) , Channel 45 (oil grade for max. mileage)

4.15.4 Resetting the service interval display (VAS 5051)

4.15.5 Special tools, testers and auxiliary items required

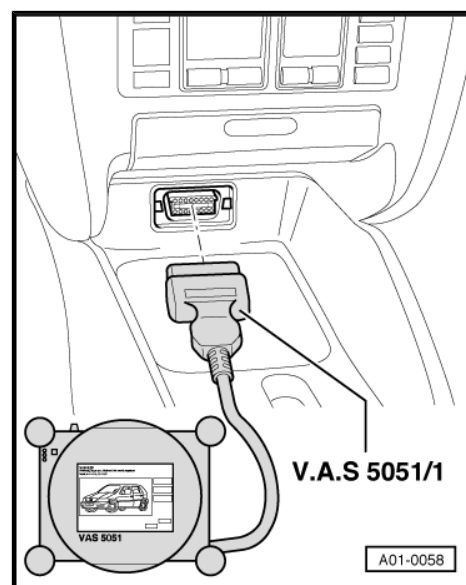
- ◆ -VAS 5051- Vehicle diagnostic, testing and information system
- ◆ -VAS 5051/3- Adapter lead

4.15.6 Connecting vehicle diagnostic, testing and information system -VAS 5051-

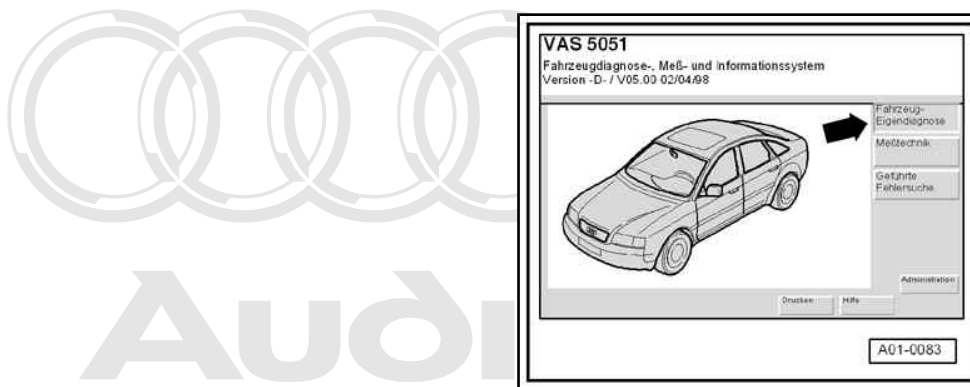
- Apply handbrake.
- Automatic gearbox: selector lever to position „P“ or „N“.
- Manual gearbox: gear lever in neutral.

With ignition switched off, connect -VAS 5051- as follows:

- With ignition switched off connect -VAS 5051- using adapter lead -VAS 5051/- 1.
- Switch on ignition.



Indicated on display:



4.15.7 Selecting operating mode:

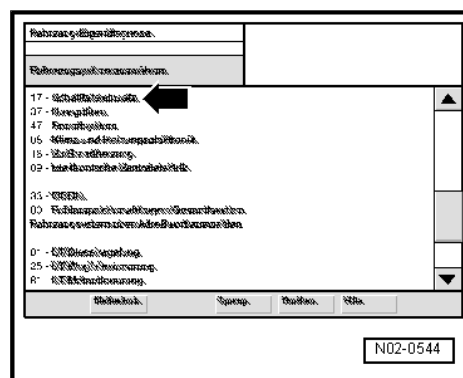
- Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted without the express written consent of AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.
- Press button for „vehicle self-diagnosis“ on display -arrow-.



Note

If the display does not coincide with the work sequence shown:
⇒ Operating instructions for Vehicle Diagnostic, Testing and Information System VAS 5051.

Indicated on display:



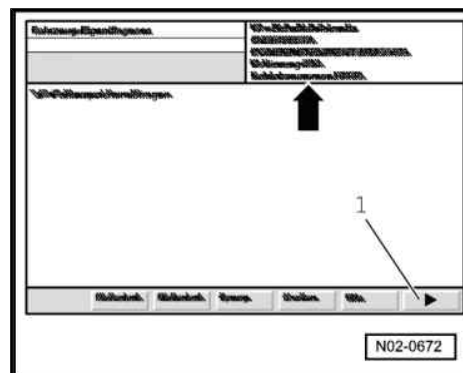
4.15.8 Selecting vehicle system:

- Press „17 - Dash panel insert“ on display -arrow-.

Indicated on display:

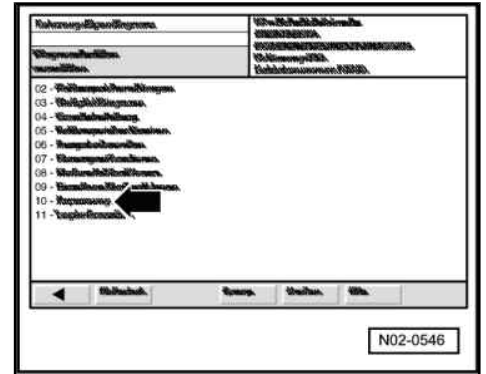
The control unit identification and coding are displayed -arrow-.

- Press arrow button -1- on the display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.

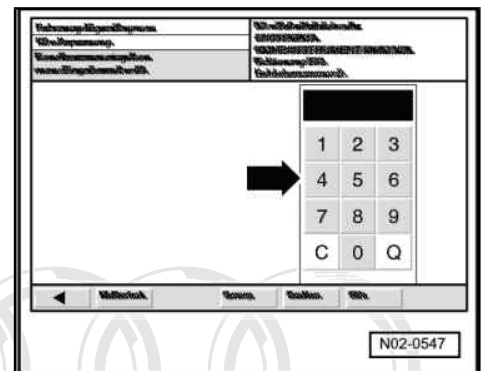


Indicated on display:

- Press keys [0] and [2] on display number block -arrow-.

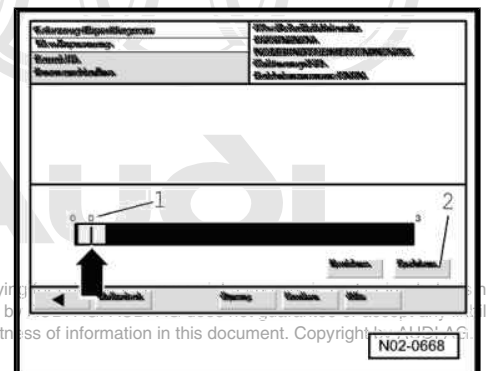
The service interval display is reset via adaption channel 02.

- Press Q key on display number block to confirm entry.



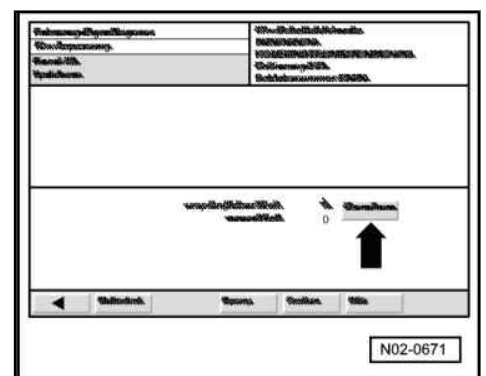
Indicated on display:

- Move the cursor -arrow- on the display to the left until "0" is displayed above the scroll bar -1-.
- Press „Save“ button -2- on the display.



Indicated on display:

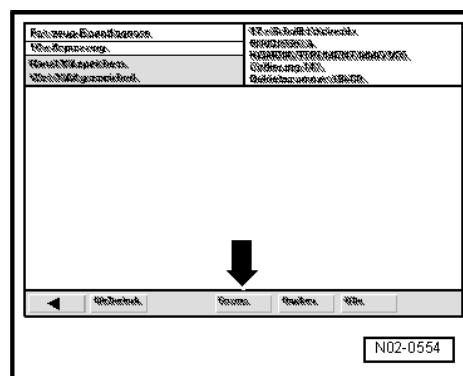
- Press „Transfer“ button on display -arrow-.



4.15.9 Ending output

Indicated on display:

- Press „Go to“ button on display -arrow-.



Indicated on display:

- Press „Exit“ button on display -arrow-.
- Press „Exit“ button in the Exit menu.
- Switch off ignition and detach diagnostic connector.

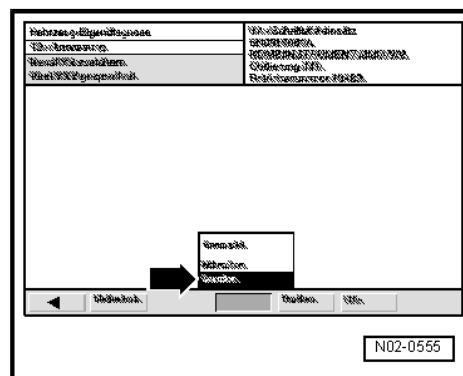


Note

The -VAS 5051- must remain connected for checking the adaption values ➔ [page 42](#) and for carrying out the exhaust emissions test (if required).

- Switch on ignition.

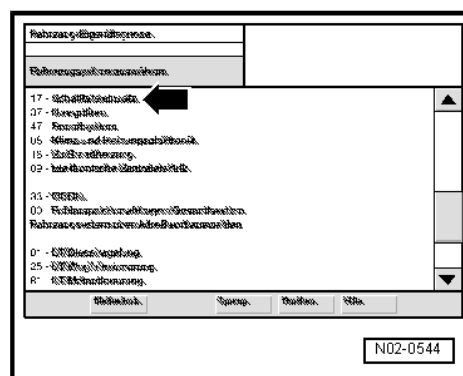
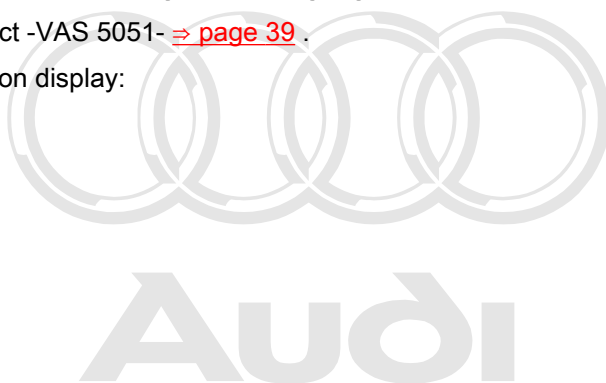
After switching on the ignition, the mileage display in the instrument cluster will no longer indicate that a service is due.



4.15.10 Checking or changing adaption values

- Connect -VAS 5051- ➔ [page 39](#).

Indicated on display:



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with regard to the correctness of information in this document. Copyright by AUDI AG.

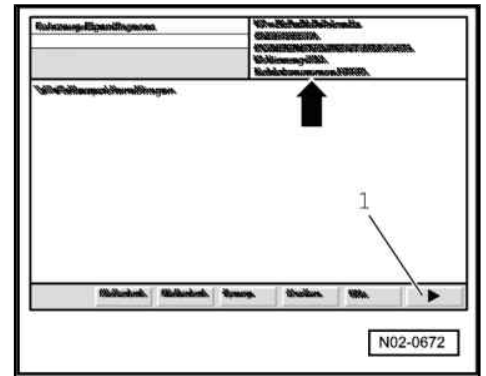
4.15.11 Selecting vehicle system.

- Press „17 - Dash panel insert“ on display -arrow-.

Indicated on display:

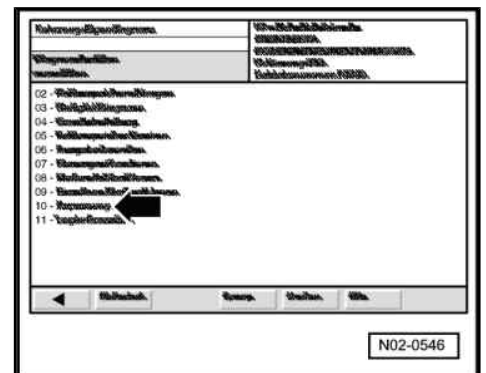
The control unit identification and coding are displayed -arrow-.

- Press arrow button -1- on the display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.

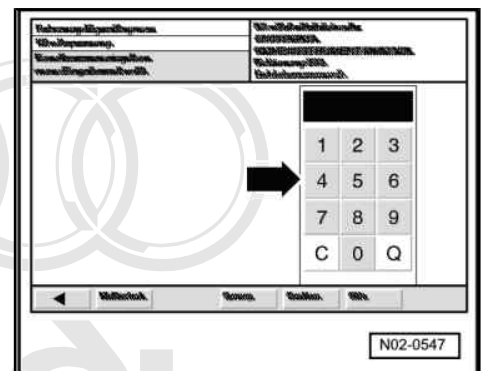


Indicated on display:

- Press keys [4] and [5] on display number block -arrow-.

Adaption channel 45 is used to adapt the dash panel insert to the oil grade.

- Press Q key on display number block to confirm entry.



Indicated on display:

- Move the cursor -arrow- on the display to the left until adaption value 1 is displayed above the scroll bar -1-.



Note

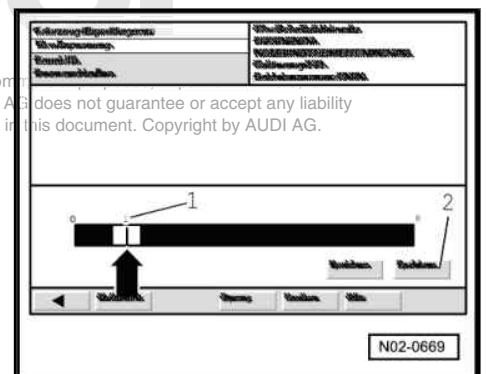
The adaption value in the top line indicates the current status of the service interval display:

Channel 45 (oil grade)	1
------------------------	---

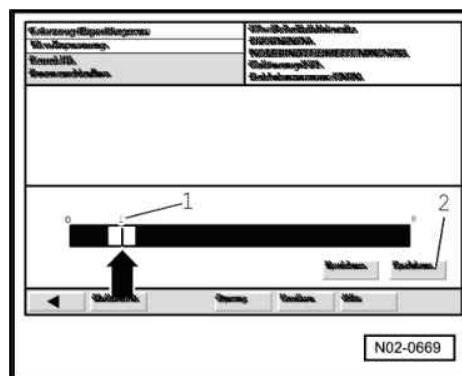


Note

Encode non-flexible service interval (Inspection Service) on instrument cluster. Enter adaption value 1.

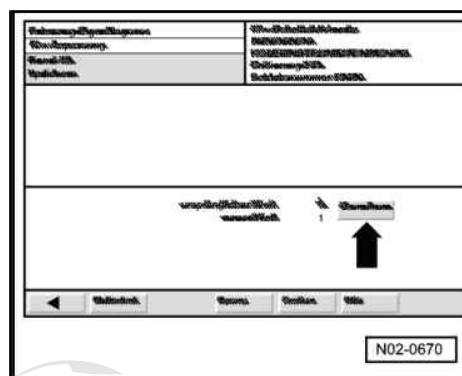


- Press „Save“ button -2- on the display.



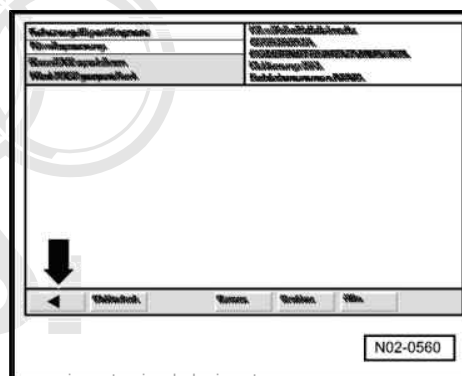
Indicated on display:

- Press „Transfer“ button on display -arrow-.



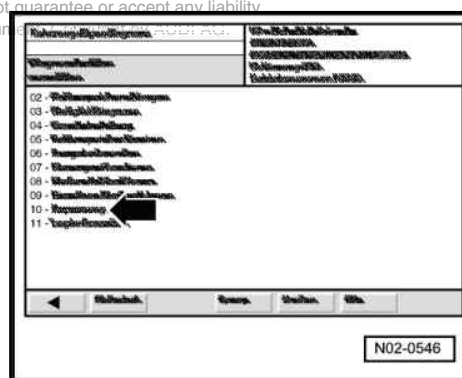
Indicated on display:

- Press -arrow- button on display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.

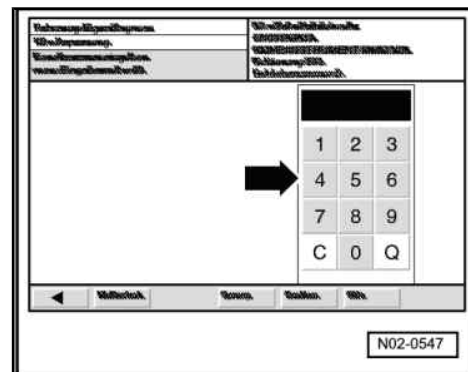


Indicated on display:

- Press keys **4** and **4** on display number block -arrow-.

Adaption channel 44 is used to adapt the time interval which may elapse before the next service is due.

- Press Q key on display number block to confirm entry.



Indicated on display:

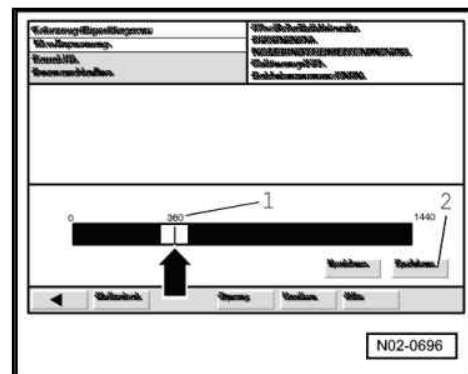
- Move the cursor -arrow- on the display to the left until adaption value 365 is displayed above the scroll bar -1-.



Note

The adaption value displays the maximum time interval which may elapse before the next service is due.

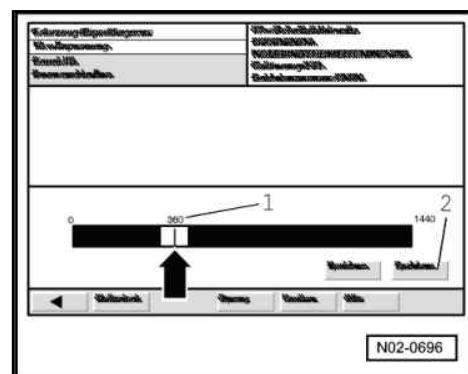
Channel 44 (max. time interval to next due service)	365 days
---	----------



Note

Encode non-flexible service interval (Inspection Service) on instrument cluster. Enter adaption value 365.

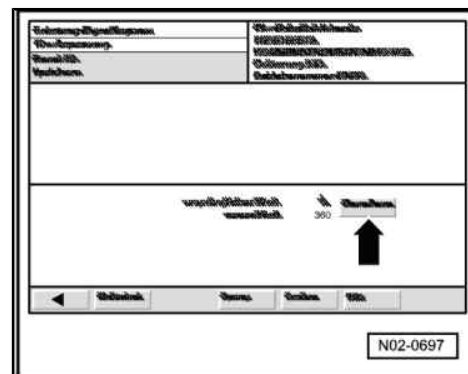
- Press „Save“ button -2- on the display.



Indicated on display:

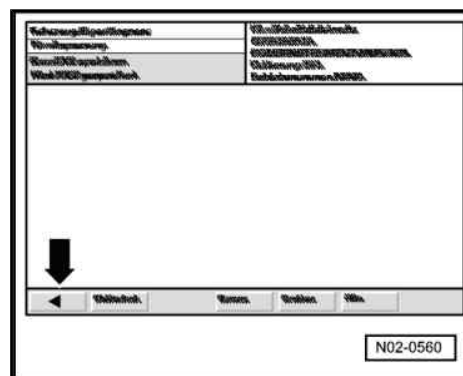
- Press „Transfer“ button on display -arrow-.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.



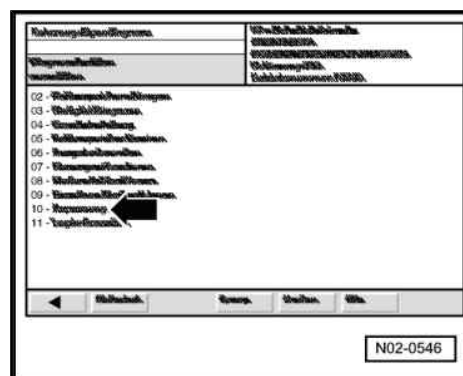
Indicated on display:

- Press -arrow- button on display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.

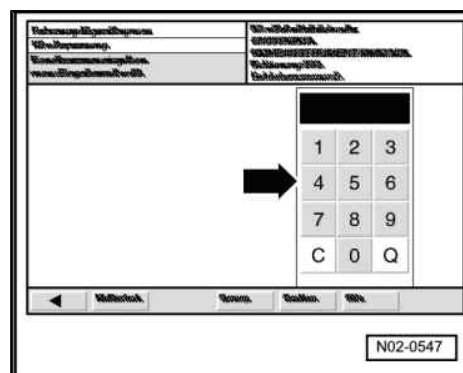


Indicated on display:

- Press keys [4] and [3] on display number block -arrow-.

Adaption channel 43 is used to adapt the maximum mileage which can be covered before the next service is due.

- Press Q key on display number block to confirm entry.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

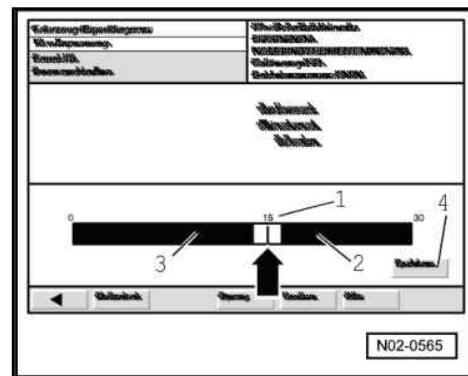
Indicated on display:

- Move the cursor -arrow- on the display to the left until adaption value 15 is displayed above the scroll bar -1-.



Note

- ◆ Briefly press the scroll bar -2- to the right of the cursor to increment the figure by one.
- ◆ Briefly press the scroll bar -3- to the left of the cursor to reduce the figure by one.
- ◆ The adaption value in the top line indicates the maximum mileage which can be covered before the next service is due.



Channel 43 (max. mileage)	15,000 km
---------------------------	-----------



Note

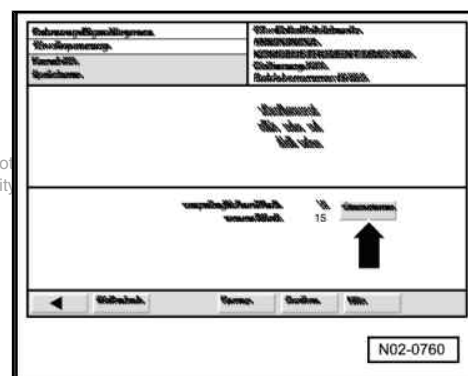
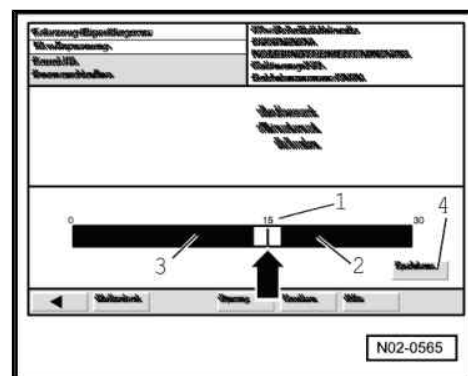
Encode non-flexible service interval (Inspection Service) on instrument cluster. Enter adaption value 15.

- Press „Save“ button -4- on the display.



Indicated on display:

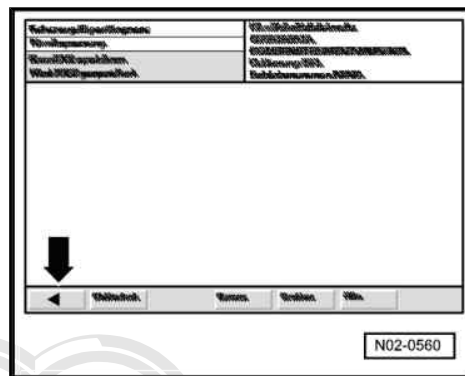
- Press „Transfer“ button on display -arrow-.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

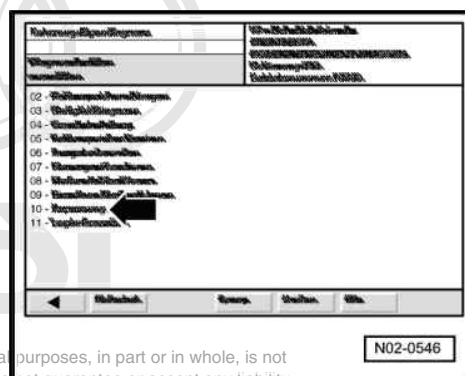
Indicated on display:

- Press -arrow- button on display.



Indicated on display:

- Press „10 - Adaption“ on display -arrow-.



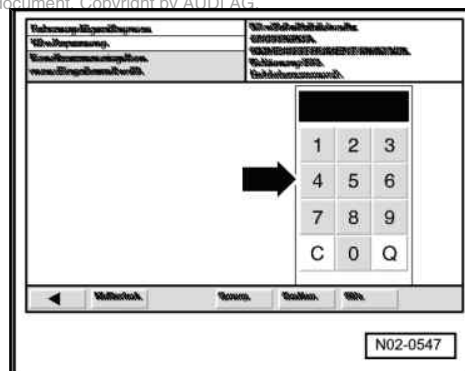
Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

Indicated on display:

- Press keys [4] and [2] on display number block -arrow-.

Adaption channel 42 is used to adapt the minimum mileage before the next service is due.

- Press Q key on display number block to confirm entry.



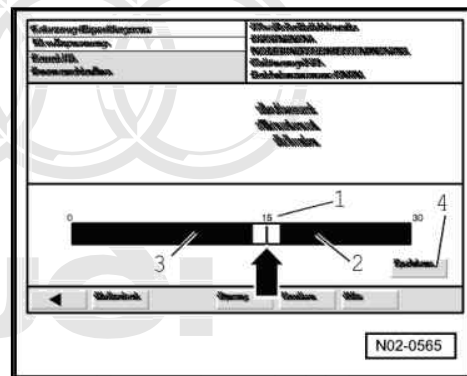
Indicated on display:

- Move the cursor -arrow- on the display to the left until adaption value 15 is displayed above the scroll bar -1-.



Note

- ◆ Briefly press the scroll bar -2- to the right of the cursor to increment the figure by one.
- ◆ Briefly press the scroll bar -3- to the left of the cursor to reduce the figure by one.
- ◆ The adaption value in the top line indicates the minimum mileage before the next service is due.



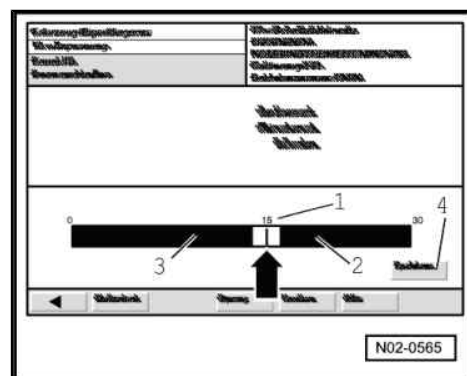
Channel 42 (min. mileage)	15,000 km
---------------------------	-----------



Note

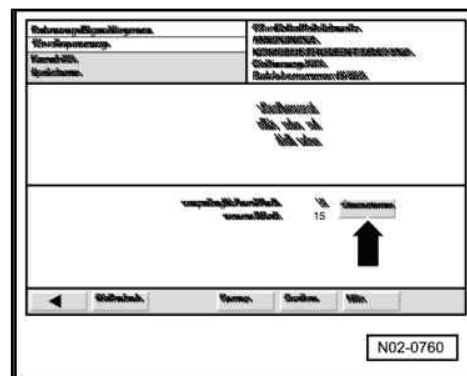
Encode non-flexible service interval (Inspection Service) on instrument cluster. Enter adaption value 15.

- Press „Save“ button -4- on the display.



Indicated on display:

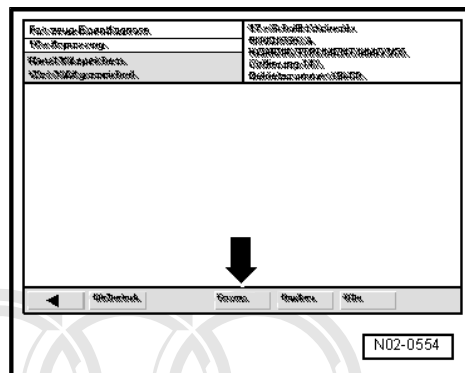
- Press „Transfer“ button on display -arrow-.



4.15.12 Ending output

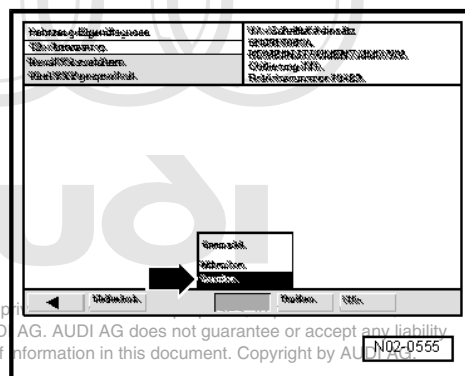
Indicated on display:

- Press „Go to“ button on display -arrow-.



Indicated on display:

- Press „Exit“ button on display -arrow-.
- Press „Exit“ button in the Exit menu.
- Switch off ignition and detach diagnostic connector.



Protected by copyright. Copying for private use is permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4.15.13 Resetting the service interval display (after completing a Service) without the use of -V.A.G 1551- or -VAS 5051-



Note

If resetting is performed without -V.A.G 1551- or -VAS 5051-, this will automatically set a fixed interval (15,000 km) for servicing.

The service interval display can be reset with the fault reader - V.A.G 1551- or -VAS 5051-, using the function „Adaption“
⇒ [page 37](#) .

The service interval display can also be reset as follows:

- Switch off ignition.
- Press the reset button for the trip recorder in the instrument cluster and at the same time switch on the ignition.

When you release the trip recorder button the display will show: „SERVICE IN ???Km“ or „SERVICE!“.

- Keep the clock adjuster button in the instrument cluster pressed until the display is set back to „SERVICE IN ???KM“ or „SERVICE!“.

The display will show: „SERVICE IN 15,000 km“.

- Switch off ignition.

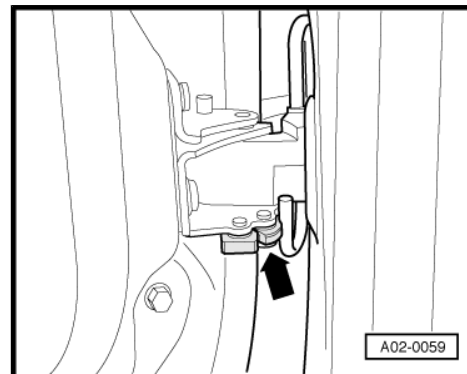
4.16 Door arresters, lock cylinders and bonnet arrester hook: lubricating

Special tools and workshop equipment required

- ◆ Universal spray oil G 000 115 A2 for door arresters and bonnet arrester hook
- ◆ Spray-on grease G 052 778 A2 for lock cylinders

Door arrester

- Only lubricate the door arresters at the points shown in the illustration -arrow-.
- ◆ Use universal spray oil G 000 115 A2.

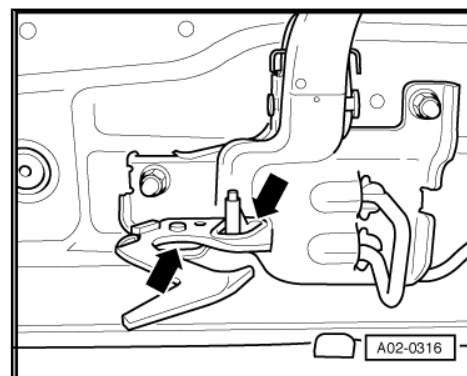


Lock cylinder

- Lubricate the lock cylinders.
- ◆ Use spray-on grease G 052 778 A2.

Bonnet arrester hook

- Only lubricate the bonnet arrester hook at the points shown in the illustration -arrows-.
- ◆ Use universal spray oil G 000 115 A2.



4.17 Sliding sunroof: checking operation, cleaning guide rails and spraying with lubricating spray

- Check sliding sunroof for leaks.
- Clean guide rails.
- Lubricate guide rails.
- ◆ Use lubricant G 060 751 A2.
- Check function of sliding sunroof.

4.18 Telematics: renewing emergency back-up battery



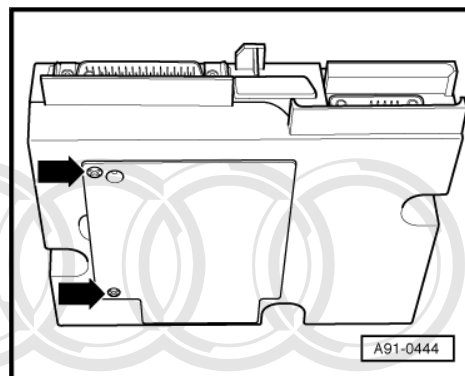
Note

On vehicles with telematics system the emergency backup battery should be renewed every four years.

The telematics control unit is located in the luggage compartment (right-side), behind cover in the side trim.

- Remove cover.

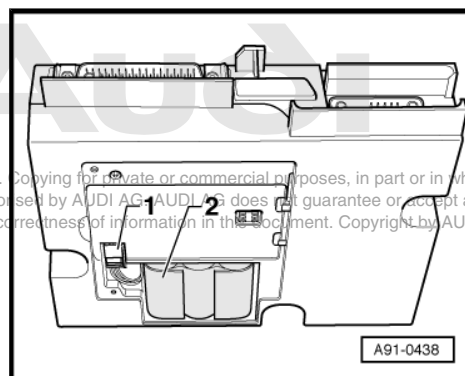
- Loosen both bolts -arrows- on telematics control unit and remove cover.



- Unplug connector -1- and pull out the emergency backup battery -2-.

Installing:

- Installation is performed in reverse sequence.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4.18.1 Before disconnecting the battery, please note the following.



WARNING

Activate the service mode on the telematics control unit before disconnecting the battery.

⇒ Vehicle diagnostic, testing and information system VAS 5051; Guided Fault Finding; Adaption; Telephone/telematics



Note

- ◆ Obtain the anti-theft code for the radio/navigation unit before disconnecting the battery.
- ◆ When reconnecting the battery, please make sure that the vehicle equipment (radio/navigation system, clock, electric window regulators, engine) is activated as described in the Owner's Manual. Also remember to deactivate the service mode on the telematics control unit. ⇒ Vehicle diagnostic, testing and information system VAS 5051; Guided Fault Finding; Adaption; Telephone/telematics

4.19 Battery: checking fluid level



Note

Batteries with or without magic eye must not be opened.

The battery is located in the engine compartment (front left).

Battery with magic eye ➔ [page 53](#)

Battery without magic eye ➔ [page 54](#)

4.19.1 Battery with magic eye



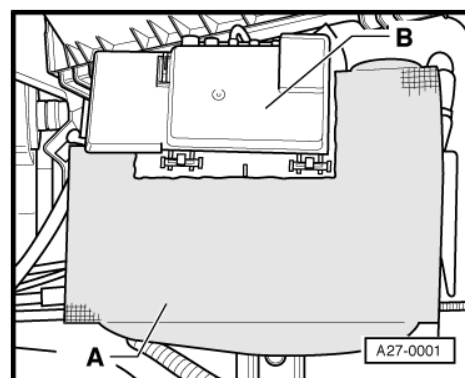
WARNING

Risk of explosion due to a discharged battery with »magic eye«.

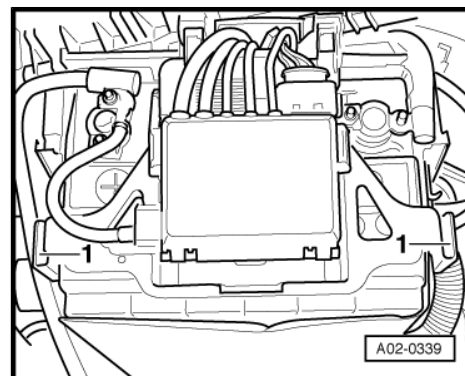
If the »magic eye« is colourless or light yellow, do not test or charge the battery. Do not attempt to jump-start the vehicle! The battery must be renewed.

...for commercial purposes, in part or in whole, is not permitted. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

- Open the protective cover on the battery -A- (velcro fastener) and push slightly downwards.

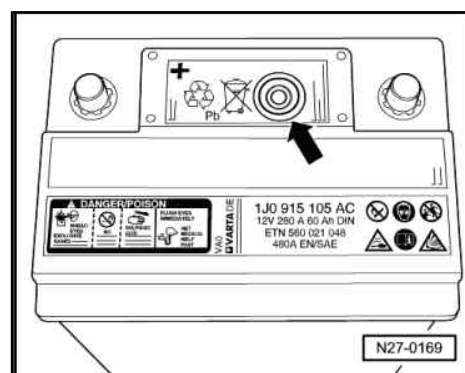


- Press the two catches -1- and fold main fuse box towards rear.



Note

- ♦ The magic eye -arrow- indicates the fluid level and the charge level of the battery to be checked.
- ♦ The magic eye is found in only one battery cell; the electrolyte level is therefore checked only for this battery cell.



- Read off battery electrolyte level according to colour display. Three different colours are used as indicators:

Colour indicator	Battery status
Green	Electrolyte level OK
Black	No charge or charge too low
Colourless or yellow	Critical electrolyte level. Battery must be renewed



Note

- ◆ During battery charging or vehicle operation, air bubbles can form underneath »magic eye« which could falsify colour display.
- ◆ Tap magic eye -arrow- lightly and carefully with the handle of a screwdriver to release any bubbles under magic eye.
- ◆ Before disconnecting the battery, please refer to [⇒ page 52](#).

4.19.2 Batteries without magic eye



Caution

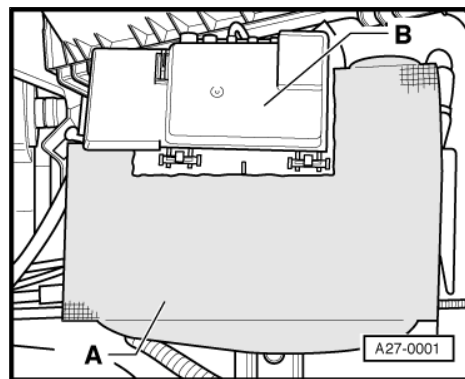
If the electrolyte level is below the min. mark the battery must be renewed.

- Open the protective cover on the battery -A- (velcro fastener) and push slightly downwards.
- ◆ A visual check of the battery is sufficient for batteries with light-coloured housing.
- ◆ The electrolyte level must be above the min. mark.
- ◆ A bright hand-held torch helps to better see the min. and max. marks.



Note

Before disconnecting the battery, please refer to [⇒ page 52](#).



4.20 Battery: checking "no load" voltage before starting the engine for the first time (only applies to stock vehicles)

4.20.1 Test equipment required

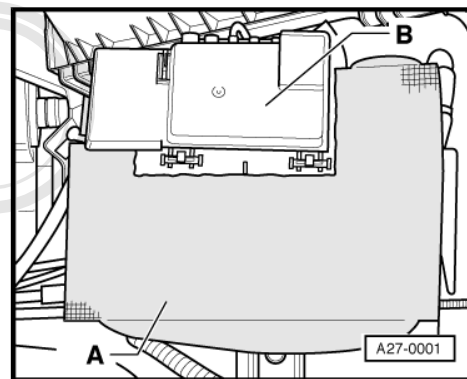
- ◆ Digital multimeter -V.A.G 1715-
- or
- ◆ Hand-held multimeter V.A.G 1526 B



Note

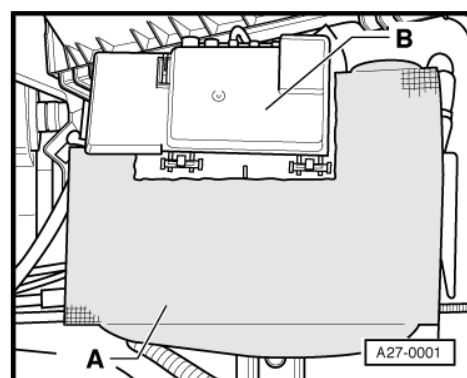
- ◆ The vehicle must not be driven or started with the battery that is to be tested for at least 2 hours before performing test.
- ◆ The battery must not be placed under load from connected electrical equipment for at least 2 hours before the test.
- ◆ The battery must not be charged for at least 2 hours before the test.

- Open the protective cover on the battery -A- (velcro fastener).
- Open lid -B- of main fuse box towards front of vehicle.
- Check voltage between battery terminals with the ignition switched off.
- ◆ If the tester indicates 12.5 V or more, then the battery is OK.
- ◆ If the voltage is less than 12.5 V, locate the source of the problem (repair measure).



4.21 Battery, checking that battery cables are securely fitted

- Open the protective cover on the battery -A- (velcro fastener).
- Open lid -B- of main fuse box towards front of vehicle.

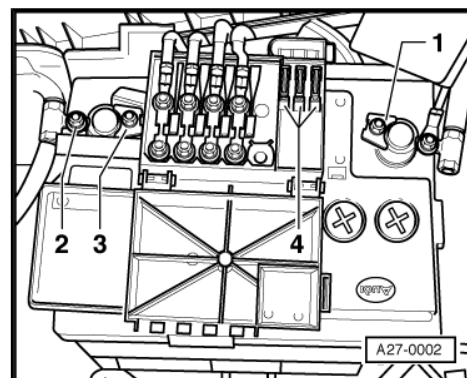


- Check that the battery terminal clamps are securely fitted. If necessary, tighten nuts -1- and -3-.

 **WARNING**
If the battery terminal clamp on the positive terminal is not fitted securely, disconnect the battery earth strap from the battery negative terminal first to avoid possible accidents.

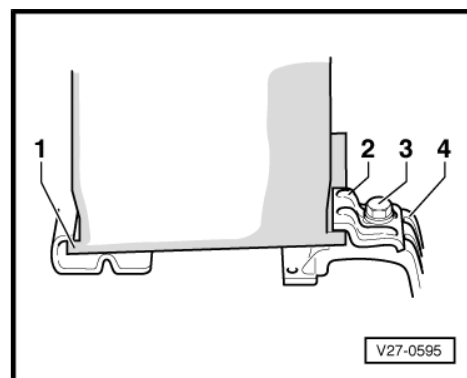
Note

Before disconnecting the battery, please refer to [⇒ page 52](#).



- Check that battery is securely installed. If necessary, tighten securing bolt -3- on retainer plate -2-.

Tightening torque	Nm
Battery terminal clamp to battery terminal	5
Bolt on retainer plate	22



4.22 Battery: performing load test

The battery load test provides information on the condition of the battery.

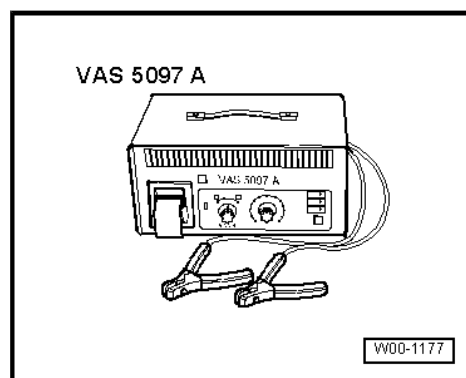
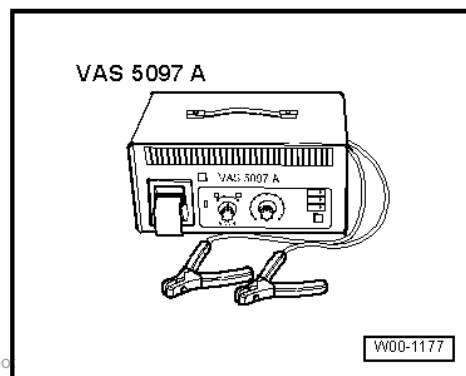
4.22.1 Special tools, testers and auxiliary items required

- ◆ Battery tester -VAS 5097 A-



Note

It is not necessary to remove the battery when using battery tester -VAS 5097A-. The battery does not have to be disconnected.



4.22.2 Carrying out load test

- Switch off ignition.
- Read operating instructions for battery tester.
- Connect the clamps of the test leads to battery terminals as described in operating instructions for the tester.

The clamps must make good contact with the battery terminals.

- As the load current differs depending on the battery, the current must be set on the tester according to battery capacity ⇒ Operating instructions for battery test equipment.
- Perform a battery load test as described in the operating instructions.

4.22.3 Test equipment display during load test

Please note the test results shown on the display of the tester.

4.22.4 Table:

Display on battery tester	Delivery Inspection	Inspection Service LongLife Service
Battery Very Good	Battery OK	Battery OK
Battery Good	Charge battery ¹⁾	Battery OK
Battery Not Good	Charge battery ¹⁾	Charge battery ¹⁾
Battery Faulty	Renew battery	Renew battery ²⁾

8) Perform battery load test again after recharging the battery. If „Battery Good“ or „Battery Not Good“ is displayed again after recharging the battery renew the battery.

9) Agree battery replacement with customer.



Note

Before disconnecting the battery, please refer to ➔ [page 52](#).

Notes on battery load test:

The battery voltage will decrease during the test due to the high load (high current flow).

If a battery is in working order battery voltage will only drop to minimum voltage.

If the battery is defective or only insufficiently charged, battery voltage will very quickly drop below minimum voltage.

After carrying out the load test the voltage will remain at this low level for quite a while; voltage will only rise again slowly.

4.23 Engine cover panel: removing

- Loosen nuts -arrows- and remove engine cover panel.

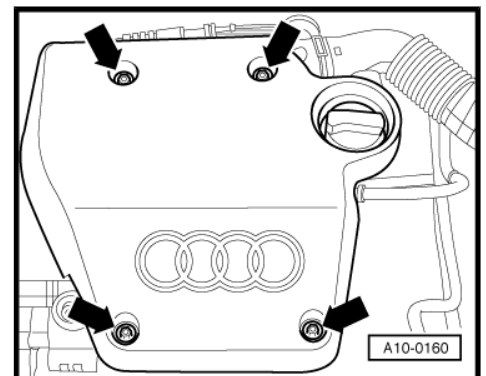
4-cylinder petrol engine AEH:

Engine code letters: AVU

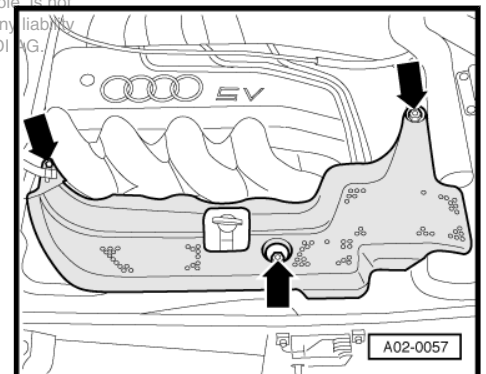
- Lift off cover.

Engine code letters: APG

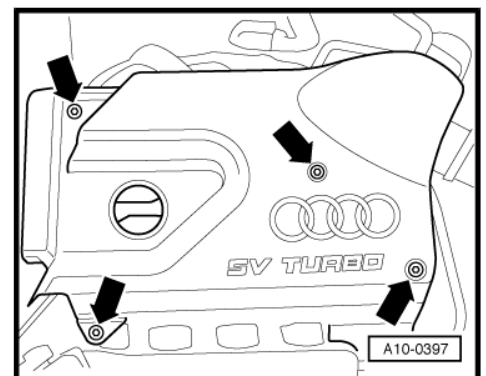
- Pull oil dipstick out of guide tube, remove cover and push dipstick back into guide tube.



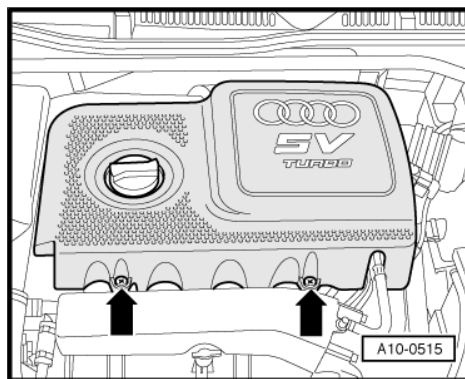
4-cylinder petrol engine AGN:



4-cylinder petrol engines: 110 kW, 132 kW;

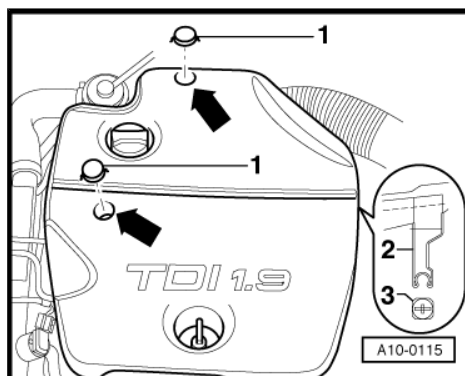


4-cylinder petrol engines: „S3“



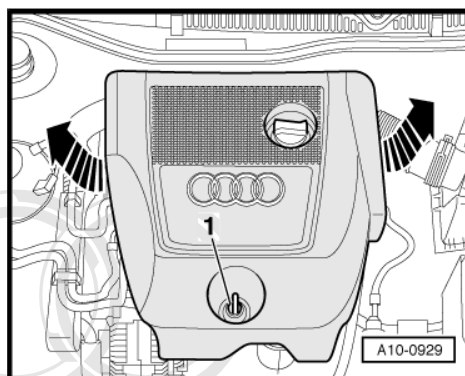
4-cylinder TDI engines

- Remove plugs -1- and loosen nuts -arrows-.
- Pull clamp -2- off pin -3- and remove engine cover panel.



4-cylinder TDI engine (unit injector)

- Pull oil dipstick -1- out of guide tube.
- Remove the engine cover panel.
- Insert the oil dipstick back into the guide tube.



4.24 Engine (from above and below) and engine compartment: visual check for leaks and damage

- Carry out visual check as follows:
- Remove engine cover panel ➔ [page 57](#)
- Check engine and engine compartment for leaks and damage.
- Check the pipes, hoses and connections of the following systems for leaks, chafing, porosity and brittleness.
 - ◆ Fuel system
 - ◆ Cooling and heating system
 - ◆ Brake system
- Perform a visual check of the same components from below with the vehicle raised on a lifting platform and the noise insulation removed.



WARNING

Any faults found must be rectified (repair measure).

4.25 Windscreen and headlight washer system: topping up with washer fluid

- Fill container up to top with washer fluid.



Note

The washer fluid must always contain a pH-neutral window cleaning additive (antifreeze additive in winter).

4.26 Cooling system: checking antifreeze and topping up with coolant if necessary

- ◆ The cooling system is filled all year round with with a mixture of water and antifreeze/corrosion protection agent.
- ◆ Coolant additive „G 011 A8 C“ (green colour) is used up to vehicle ID No. 8L VA 006 233.
- ◆ From vehicle ID No. 8L VA 006 234 coolant additive „G 012 A8 D“ (red colour) is used.



WARNING

The two different coolant additives „G 011 A8 C“ (green) and „G 012 A8 D“ (red) must never be mixed. Mixing the two could result in serious damage to the engine.

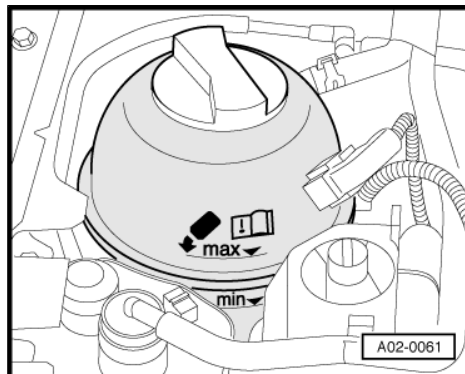
- ◆ If the fluid in the expansion tank is brown, this means G 012 A8 D has been mixed with another type of coolant. If this should be the case, flush out the cooling system and change coolant. To flush the system, fill it with clean water and run the engine for about 2 minutes. This should remove most of the old coolant.
- ◆ „G 011 A8 C“ or a coolant additive conforming to specification "TL -VW 774- C" / „G 012 A8 D“ or a coolant additive conforming to "TL -VW 774- D" prevent frost and corrosion damage, stop scaling and, at the same time, raise the boiling point of the coolant. It is therefore essential to use the correct antifreeze and corrosion protection additive in the cooling system all year round.

 Audi

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4.26.1 Checking coolant level and topping up with coolant if necessary

- Check coolant level on expansion tank while the engine is cold.



4.26.2 Delivery Inspection

- ◆ Coolant level at max marking

4.26.3 Inspection Service

- ◆ Coolant level between min and max markings
- If coolant level is too low, add required amount (using correct mixture ratio).

4.26.4 Mixture ratio:

Frost protection to	Coolant additive	Water
-25 °C	approx. 40 %	approx. 60 %
-35 °C	approx. 50 %	approx. 50 %
-40 °C	approx. 60 %	approx. 40 %



Note

- ◆ Because of its high boiling point, the coolant improves engine reliability under heavy loads, particularly in countries with tropical climates.
- ◆ Antifreeze protection must be guaranteed to about -25 °C (in countries with an arctic climate to approx. -35 °C).
- ◆ The coolant concentration must not be reduced by adding water even in warmer seasons and in warmer countries. The antifreeze ratio must be at least 40 %.
- ◆ If greater antifreeze protection is required in very cold climates, the proportion of „G 011 A8 C“ or „G 012 A8 D“ can be increased, but only up to 60 % (this gives frost protection to about -40 °C). Beyond this concentration the antifreeze protection and also the cooling efficiency are reduced again.

4.26.5 Checking antifreeze and topping up with coolant additive if necessary

- If antifreeze protection is insufficient, drain off the required quantity as specified in the antifreeze protection table (⇒ [page 61](#)) and add „G 011 A8 C“ or coolant additive conforming to "TL -VW 774- C" or „G 012 A8 D" or a coolant additive conforming to specification "TL -VW 774- D".

 Note

Observe disposal regulations.

4.26.6 Antifreeze protection table

Antifreeze protection to °C		Required quantity in litres
Actual	Specified	4-cyl. engine
0	- 25	3.5
	- 35	4.0
- 5	- 25	3.0
	- 35	3.5
-10	- 25	2.0
	- 35	3.0
-15	- 25	1.5
	- 35	2.0
- 20	- 25	1.0
	- 35	1.5
- 25	- 35	1.0
- 30	- 35	0.5
- 35	- 40	0.5

- Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted without the prior written consent of Audi AG. Audi AG does not accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.
- Check coolant additive concentration after road test.

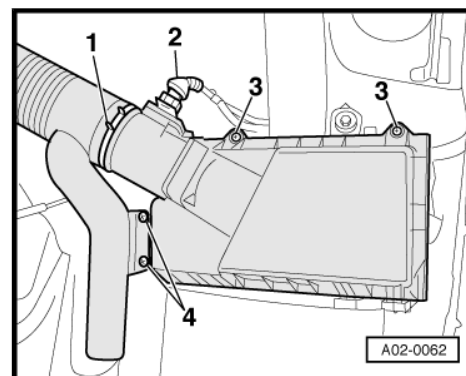
4.27 Air cleaner: cleaning housing and renewing filter element

4-cylinder petrol engine AGN:

- Loosen bolts -4-.

All engines:

- Loosen hose clip -1- and detach air intake hose.
- Detach the connector -2- from the air mass meter.
- Slacken bolts -3- and lift cover off air cleaner housing.
- Remove old filter element.
- Clean filter housing and install new filter element.



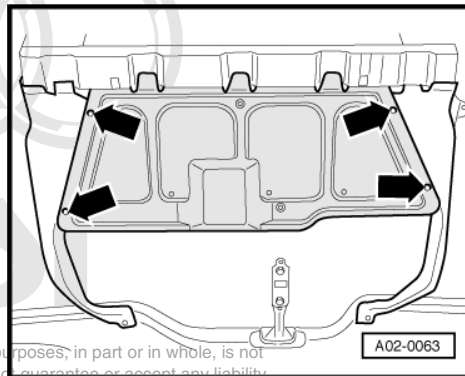
 Note

- ◆ *When cleaning the filter housing with compressed air please cover the critical parts of the air intake system, such as air mass meter, air passages etc., with a clean cloth or blue paper towels to avoid malfunctioning.*
- ◆ *Observe disposal regulations.*

4.28 Noise insulation: removing

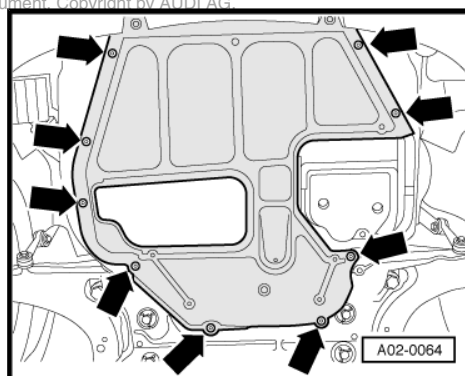
- Unscrew bolts -arrows- and remove noise insulation.

4-cylinder petrol engines:



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4-cylinder TDI engines:



4.29 Spark plugs: renewing

4.29.1 Special tools required

- ◆ Spark plug socket and extension 3122 B
- ◆ Assembly tool -T10029-



Note

- ◆ *Spark plug designation ⇒ Exhaust emissions test*
- ◆ *Observe disposal regulations.*

4-cyl. petrol engines AEH, AGN, AKL, APF, APG:

- Remove engine cover panel ⇒ [page 57](#) .
- Detach spark plug connectors with assembly tool -T10029- and unclip ignition cables.
- Remove spark plugs using spark plug socket -3122 B-.
- Install new spark plugs using spark plug socket.
- Check that ignition cables and spark plug connectors are correctly seated.

Tightening torque for spark plugs: 30 Nm.

4-cyl. 2V 1.6 ltr. petrol engines (AVU):

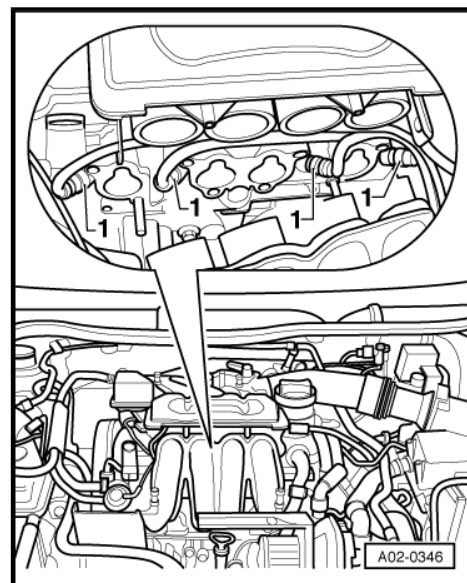
- Remove engine cover panel ⇒ [page 57](#) .
- Removing and installing lower section of variable intake manifold ⇒ Simos injection and ignition system; Repair group 24: Mixture preparation - injection

- Disconnect the spark plug connectors -1- with assembly tool - T10029- .
- Remove spark plugs using spark plug socket -3122 B-.
- Install new spark plugs using spark plug socket.
- Check that ignition cables and spark plug connectors are correctly seated.

Tightening torque for spark plugs: 30 Nm.

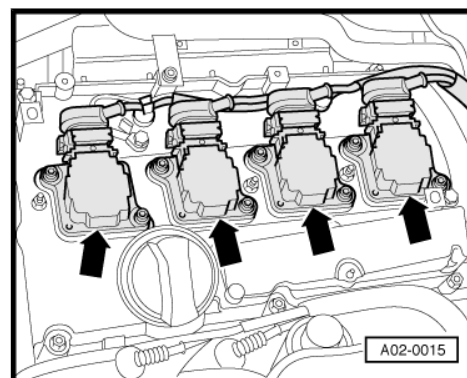
4-cyl. 5V 1.8 ltr. turbocharged petrol engines (AGU):

- Remove engine cover panel ➔ [page 57](#) .
- With ignition switched off, lift retaining clips for ignition coil connectors and unplug connectors.



- Unscrew and remove the ignition coils -arrows-.
- Remove spark plugs using spark plug socket -3122 B-.
- Install new spark plugs using spark plug socket.
- Install ignition coils. Renew seals if damaged.

Tightening torques	Nm
Spark plugs in cylinder head	30
Ignition coils to cylinder head cover	10



4-cyl. 5V 1.8 ltr. turbocharged petrol engines (AQA, ARZ, AJQ, APP, APY, AUQ, ARY):

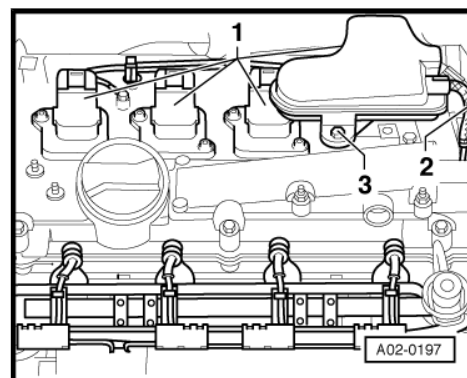
- Remove engine cover panel ➔ [page 57](#) .
- Disconnect the vacuum hose -2- from the vacuum reservoir.

Protected by copyright. Any reproduction, copying, distribution, or other use without the written permission of Audi AG is prohibited. Audi AG does not guarantee or accept any liability with respect to the content of this document.

Loosen bolt -3- and detach vacuum reservoir from bracket.
With the ignition switched off, disconnect the connectors from the ignition coils.

- Unscrew and remove the ignition coils -1-.
- Remove spark plugs using spark plug socket -3122 B-.
- Install new spark plugs using spark plug socket.
- Install ignition coils. Renew seals if damaged.

Tightening torques	Nm
Spark plugs in cylinder head	30
Ignition coils to cylinder head cover	10

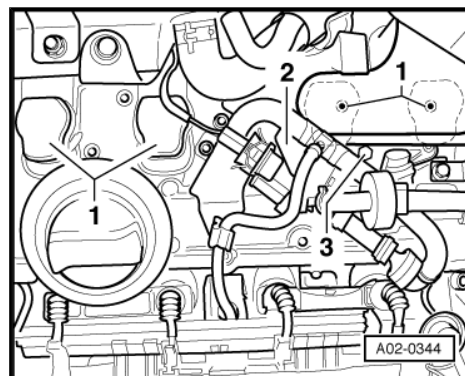


4-cyl. 5V 1.8 ltr. turbocharged petrol engines (AMK):

- Remove engine cover panel ➔ [page 57](#) .
- Loosen bolt -3- and detach vacuum reservoir from bracket.
- Remove the bracket -2- over the ignition coils.
- With the ignition switched off, disconnect the connectors from the ignition coils.

- Unscrew and remove the ignition coils -1-.
- Remove spark plugs using spark plug socket -3122 B-.
- Install new spark plugs using spark plug socket.
- Install ignition coils. Renew seals if damaged.

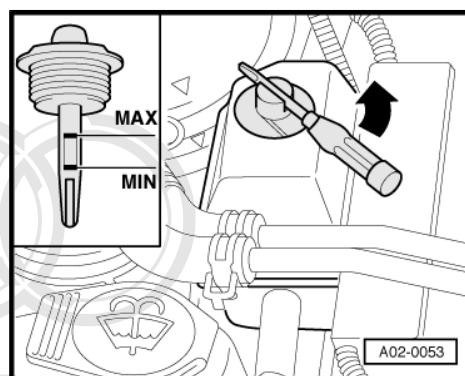
Tightening torques	Nm
Spark plugs in cylinder head	30
Ignition coils to cylinder head cover	10



4.30 Hydraulic system: checking for leaks, checking hydraulic fluid level and topping up if necessary

4.30.1 Fluid level in power steering system

- Fluid in cold condition:
 - Do not start engine but bring front wheels to straight-ahead position.
- Fluid at operating temperature (above approx. 50 °C):
 - Start engine and bring front wheels to straight-ahead position.
 - Use a screwdriver -arrow- to unscrew filler cap with dipstick.
 - Clean dipstick with a clean cloth.
 - Screw cap on hand tight and unscrew again.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

– Check fluid level:

- Fluid in cold condition:

The fluid level must be in area of MIN. marking (up to 2 mm above or below marking).

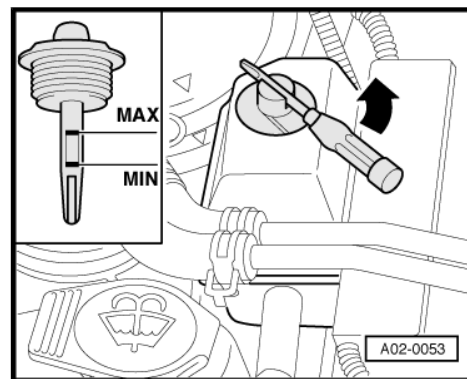
- Fluid at operating temperature (above approx. 50 °C):

Fluid level must be between MIN. and MAX. marks.



Note

- ◆ The fluid level reading will only be accurate if the cap was screwed on properly before checking the dipstick.
- ◆ If the fluid level is above the area specified, the excess fluid must be extracted.



WARNING

If the fluid level is below the range specified, the hydraulic system must be checked for leaks (repair measure). It is then not sufficient to merely top up the fluid.

- If the system is not leaking top up with „G 002 000“ fluid.
- Screw cap on hand tight.

4.31 Fuel filter: renewing (TDI engines)



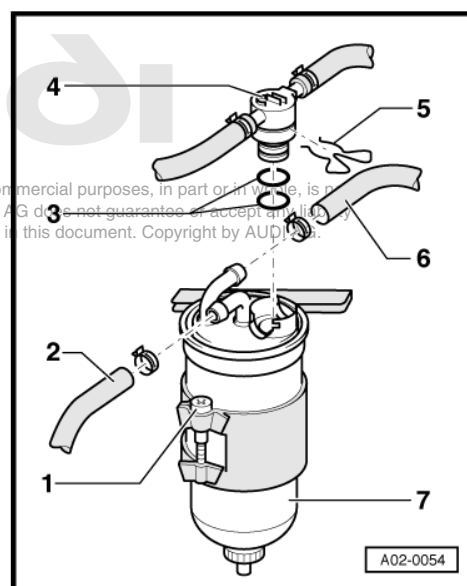
Note

- ◆ Please ensure that no diesel fuel makes contact with the coolant hoses. If necessary, clean hoses immediately.
- ◆ Observe disposal regulations.

4.31.1 Removing

- Pull off retaining clip -5-.
- Remove regulating valve -4- with fuel lines attached.
- Pull fuel hoses -2- and -6- off hose connections.
- Loosen bolt for clip -1- on bracket and take filter -7- out of bracket.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.



4.31.2 Installing

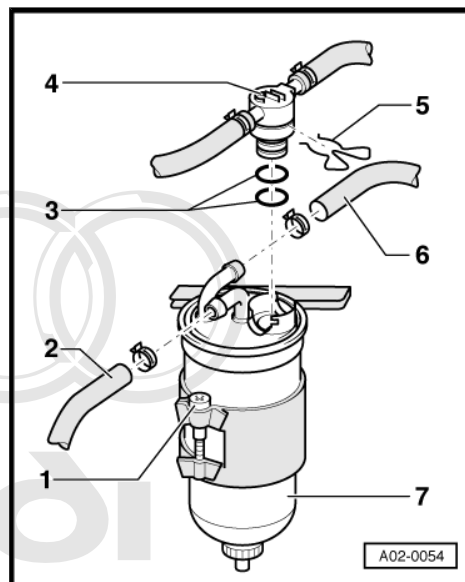
- Fill new filter -7- with clean diesel fuel. This will enable the engine to start more quickly.
- Renew O-rings -3- in regulating valve.
- When inserting regulating valve, take care not to damage O-rings in valve.
- Fit filter -7- into bracket and tighten bolt for clip -1-.
- Install regulating valve -4- with fuel lines attached.
- Fit retaining clip -5-.
- Push fuel hoses -2- and -6- over hose connections and secure hoses with hose clips.



Note

Flow direction is marked by arrows (do not interchange connections).

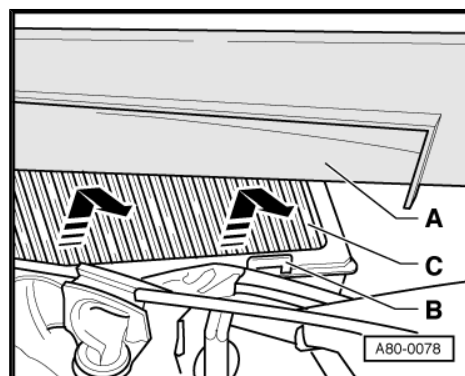
- Start engine and check fuel system for leaks (visual check).



4.32 Dust and pollen filter: renewing

The filter is located below the plenum chamber cover (right-side).

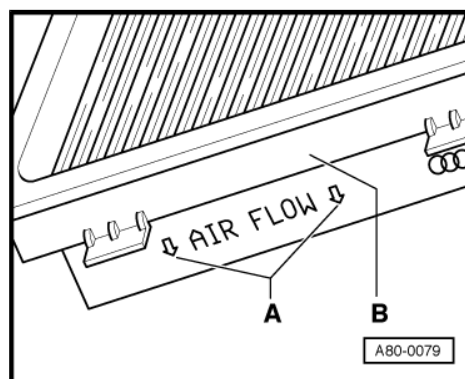
- Pull rubber seal off upwards to vehicle centre.
- Fold up movable part -A- of plenum chamber cover.
- Press back the 2 retainer tabs -B- (one of the retainer tabs is concealed in illustration).
- Remove dust and pollen filter -C-.



Note

- ◆ Observe disposal regulations.
- ◆ Plenum chamber cover and cowl panel trim must be properly installed to make sure no water can run into the dust and pollen filter or the heating system.
- ◆ The dust and pollen filter element must be fitted into the frame -B- facing in the correct direction. The arrow markings -A- indicate the direction of air flow.

- Install new filter element.
- Install plenum chamber cover and rubber seal.



4.33 Toothed belt for camshaft drive: checking for damage, measuring width of toothed belt (TDI engines up to and including model year 1999 -X-)

4.33.1 Tools required

- ◆ Straightedge
- Loosen three top tensioning clips of toothed belt guard (top).
- Bend toothed belt guard (top) to side slightly until you can see toothed belt.

Note

The illustration shows the toothed belt with toothed belt guard (top) detached.

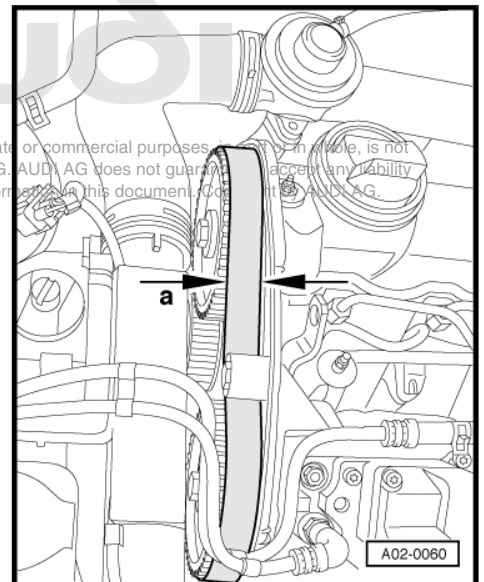
- Measure width of toothed belt -a- with straightedge.
- ◆ Wear limit = 22 mm



WARNING

If width of toothed belt is less than 22 mm it is essential that you renew the toothed belt (repair measure).

Protected by copyright. Copying for private or commercial purposes, in whole or in part, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee the accuracy of the information in this document. Copyright © AUDI AG.



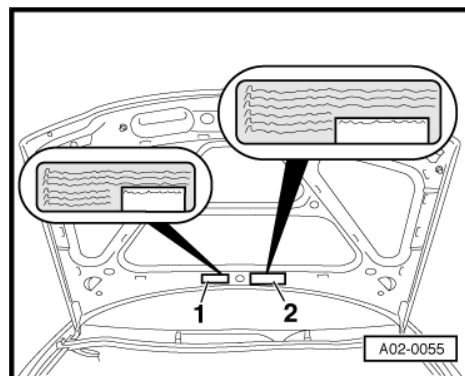
4.34 Toothed belt for camshaft drive: renewing (TDI engines)

- Removing and installing toothed belt: ⇒ 4-cyl. diesel direct injection engine (TDI), mechanics; Repair group 13; Dismantling and assembling engine; Removing, installing and tensioning toothed belt
- Dynamic check and adjustment of commencement of injection: ⇒ Diesel direct injection and glow plug system (4-cyl. TDI); Repair group 23; Servicing diesel direct injection system; Dynamic check and adjustment of commencement of injection

4.34.1 4-cyl. TDI engines (unit injector)

- Removing and installing toothed belt: ⇒ 4-cyl. diesel direct injection TDI engine (unit injector), mechanics; Repair group 13; Dismantling and assembling engine

- Fill in toothed belt renewal sticker -1- (at rear of bonnet). Attach a new sticker, if necessary.



4.35 Poly V-belt: renewing

Vehicles with 4-cylinder 5V petrol engine ⇒ 4-cylinder engine (5-valve), mechanics; Repair group 13; Crankshaft group; Removing and installing poly V-belt.

4.36 Toothed belt: renewing

Vehicles with 4-cylinder 5V petrol engine ⇒ 4-cylinder engine (5-valve), mechanics; Repair group 13; Crankshaft group; Removing and installing toothed belt.

4.37 Transport locks: removing locking elements for front suspension struts

Some models are supplied with transport locks fitted on the front suspension struts. These vehicles are identified by a red tag fixed to the mirror -arrow-.



Note

If an orange warning tag is visible on the mirror (-S3- with lowered sports running gear), additional blocking elements are installed on both sides of the rear axle.

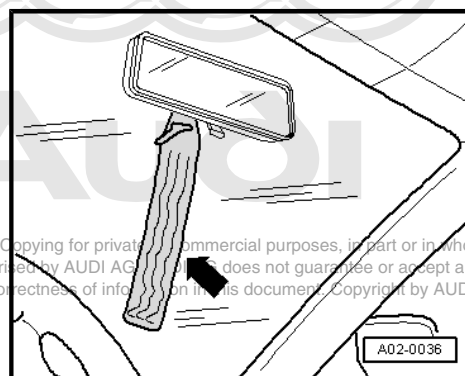
Two different types of transport locks are used.

- Relieve the load on the coil springs (e.g. by raising vehicle on a lifting platform).



Note

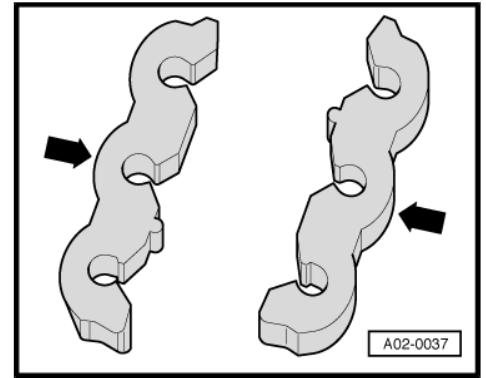
- ◆ *It is not necessary to remove the wheels.*
- ◆ *Ensure that surface of springs is not damaged.*



- Pull the locking elements -arrows- out of the springs.

 Note

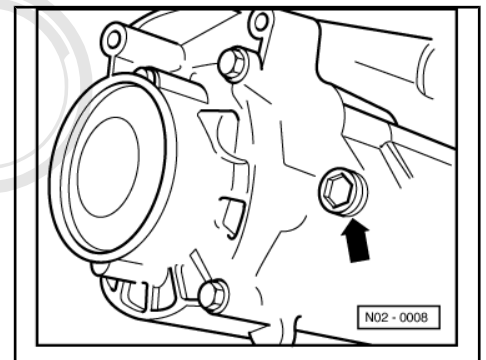
- ◆ *Until approx. 08.97 locking elements were alternatively fitted onto the shock absorber plunger rod below the boot of the suspension strut (front). Removing:*
- ◆ *Push boot for suspension strut upwards.*
- ◆ *Press onto locking elements with water pump pliers in order to release the clips.*
- ◆ *Remove locking elements.*
- ◆ *Push boot for suspension strut downwards and fit onto suspension strut.*



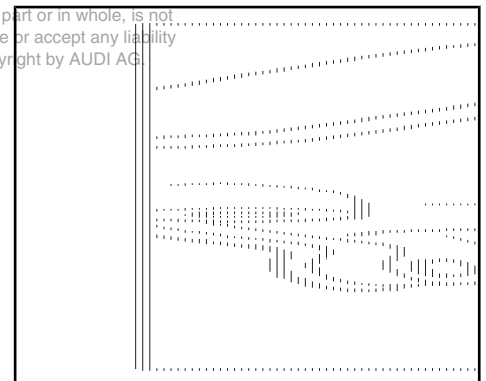
4.38 Manual gearbox/final drive: checking oil level, topping up with oil if necessary

- Remove oil filler plug -arrow-.
- ◆ Specification: oil level up to lower edge of filler hole

4.38.1 5-speed manual gearbox 02K, front-wheel drive

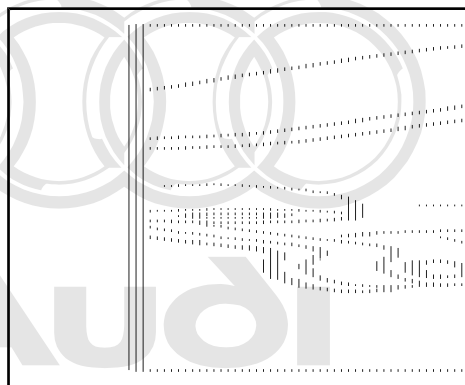


4.38.2 5-speed manual gearbox 02J, front-wheel-drive



4.38.3 5-speed manual gearbox 02C, four-wheel drive

Tightening torque	Nm
Oil filler plug	25



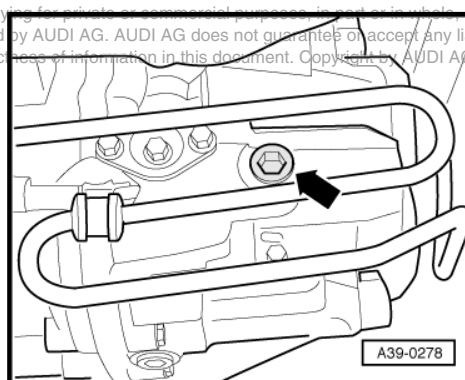
4.38.4 6-speed manual gearbox 02M (front-wheel drive and four-wheel drive)



WARNING

If the oil level is below the range specified, the gearbox must be checked for leaks (repair measure). It is then not sufficient to merely top up the oil.

- If there are no leaks in gearbox, top up with gear oil according to specification G 50 SAE 75W90 (synthetic oil).
- The filler plug for this gearbox must be renewed.
- Tightening torque: 30 Nm



4.39 Haldex coupling: changing oil

- Connect fault reader -V.A.G 1551- with lead -V.A.G 1551/3A- (ignition must be switched off).
- With ignition switched on, select address word 22 for electronics for four-wheel drive.
- Select function 08 to start "Read measured value block" and select display group number 002. If temperature is not displayed, select display group number 001.

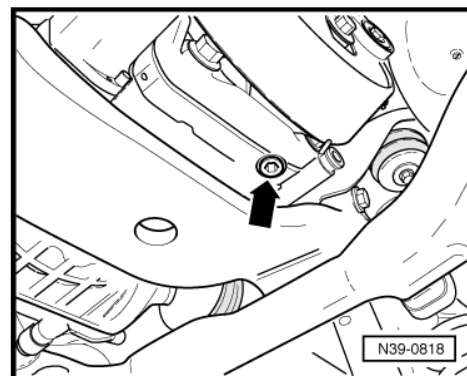
Indicated on display:

Read measured value block			
	001->		
00000000	00000000	36 °C	1

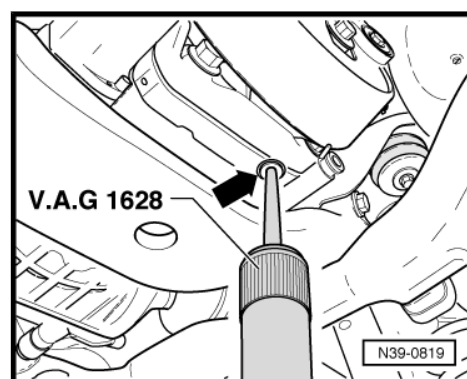
The third display zone shows the oil temperature.

- The oil temperature must be between 20 and 40 °C
- Run the engine warm to reach the correct oil temperature.
- Place a drip tray underneath.

- Unscrew the drain plug -arrow- and drain the oil completely.
- High-performance oil G 052 175 A1, 0.25 ltr. containers
- Insert cartridge with 0.25 ltr. of oil into hand cartridge gun - V.A.G 1628- .
- Have a drain plug with new seal ready.



- Insert hand cartridge gun -V.A.G 1628- vertically into drain bore -arrow-.
- Pump complete amount of oil into Haldex coupling.
- Take out hand cartridge gun -V.A.G 1628- and immediately screw in drain plug with new seal.



4.39.1 Tightening torque:

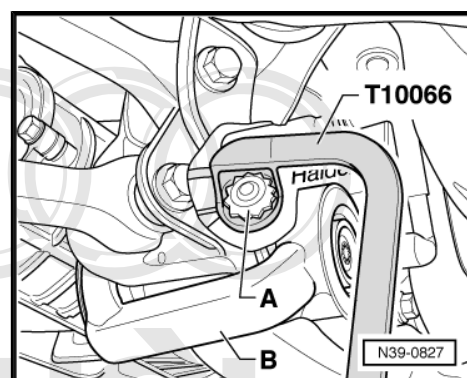
Drain plug into housing 15 Nm

4.40 Haldex coupling: renewing oil filter

4.40.1 Removing

- Place drip tray underneath.
- Loosen and unscrew oil filter with angled ring spanner - T10066- .

Installation position: Oil filter -A- (hidden by subframe) is located on right side of vehicle near front mounting bracket -B-.



4.40.2 Installing

- Lubricate seal of new oil filter with oil for Haldex coupling.
- Screw in oil filter -A- and tighten with -T10066-.
- Check fluid level in Haldex coupling ⇒ [page 71](#) .

4.40.3 Haldex coupling: checking oil level

- Connect fault reader -V.A.G 1551- with lead -V.A.G 1551/3A- (ignition must be switched off).

- With ignition switched on, select address word 22 for electronics for four-wheel drive.
- Select function 08 to start "Read measured value block" and select display group number 002. If temperature is not displayed, select display group number 001.

Indicated on display:

Read measured value block		
001->		
00000000	00000000	36 °C 11.7V

The third display zone shows the oil temperature.

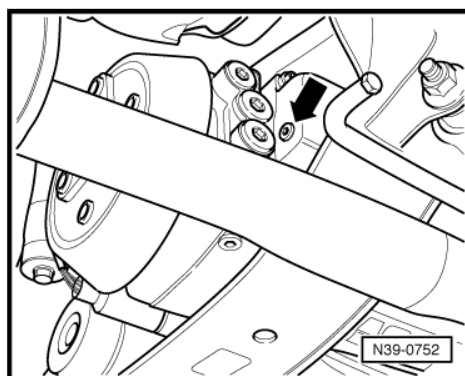
- The oil temperature must be between 20 and 40 °C
- Run the engine warm to reach the correct oil temperature.
- Unscrew oil inspection plug -arrow-.

The oil level is correct when the Haldex coupling is topped up to the lower edge of the inspection hole or no lower than 3 mm below it.

- Screw in plug -arrow-.
- If the oil level is not correct, the oil in the Haldex coupling must be changed ⇒ [page 70](#).

Tightening torque:

Oil inspection plug 30 Nm



4.41 Final drive (automatic gearbox): checking oil level, topping up with oil if necessary

- Remove speedometer drive and wipe with clean cloth.
- Install speedometer drive and then remove again.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

- ◆ Specification: oil level must be between min and max marking -arrows-

 Note

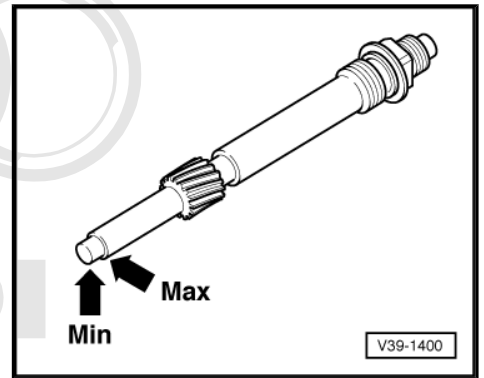
- ◆ Automatic gearbox 01M has been filled with gear oil SAE 75W90.
- ◆ It must only be filled up with gear oil „G 052 145...“.



WARNING

If the oil level is below the range specified, the final drive must be checked for leaks (repair measure). It is then not sufficient to merely top up the ATF.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorized by Audi AG. Audi AG does not guarantee or accept any liability in respect to the correctness of information in this document. Copyright by AUDI AG.

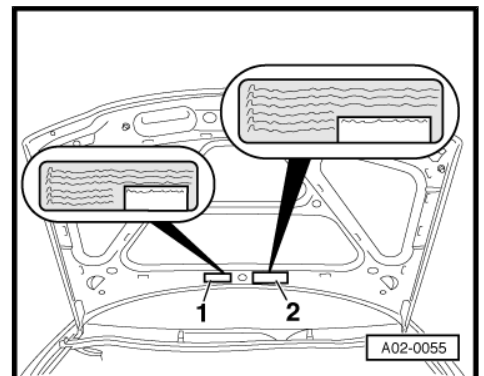


- If final drive is not leaking, top up with gear oil SAE 75W90 „G 052 145...“.

 Note

If too much gear oil has been filled in, use extraction system - V.A.G 1358 A- to draw off the excess oil.

- Install speedometer drive.
- Fill in sticker for final drive oil check -2- (at rear of bonnet). Attach a new sticker, if necessary.



4.42 Engine oil: draining or extracting, changing oil filter

4.42.1 Special tools required

- ◆ Hazet strap wrench 2171-1
- or
- ◆ Oil filter tool 3417
- ◆ Oil extraction probe -V.A.G 1307 A- or -V.A.G 1358 A-

 Note

- ◆ Use flexible oil extraction probe -V.A.G 1358 A/- (10 mm outer diameter) to speed up the extraction process.
- ◆ Observe disposal regulations.

4-cylinder petrol engines:

- Remove noise insulation ⇒ [page 61](#) .
- Use strap wrench (e.g. Hazet 2171-1) or oil filter tool 3417 to slacken oil filter and then remove it.

**Note**

Observe disposal regulations.

- Open oil drain plug / draw off engine oil.
- Clean sealing surface for oil filter at engine.
- Lightly lubricate rubber seal.
- Screw in new filter and tighten.

**WARNING**

After renewing oil filter cartridge, check clearance of hoses from oil cooler to adjacent components, if necessary correct oil cooler position.

- Screw in oil drain plug with new seal.
- Fill up with engine oil, specifications ⇒ [page 79](#) .
- Please observe the notes for turbocharged engines ⇒ [page 81](#) .

Tightening torque	Nm
Oil filter	20
Oil drain plug	30

4-cylinder TDI engines:

- Remove noise insulation ⇒ [page 61](#) before draining oil via the oil drain plug.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

- Loosen sealing cap -1- with oil filter tool 3417.



Note

Loosen sealing cap before draining/extracting oil, so that engine oil can flow out of oil filter housing.

- Open oil drain plug / draw off engine oil.
- Renew O rings -2- and -3- as well as oil filter element -4-.

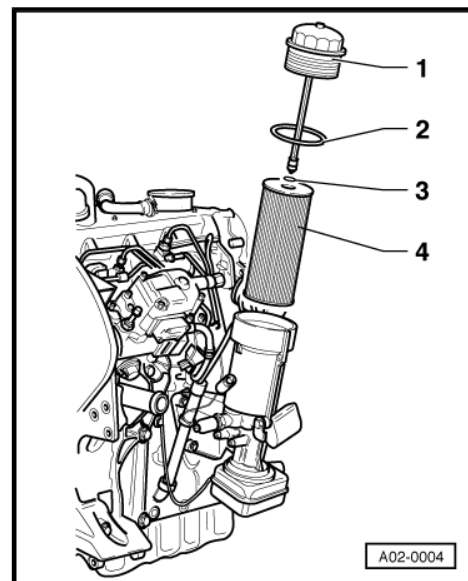


Note

Observe disposal regulations.

- Tighten sealing cap with oil filter tool 3417.
- Screw in oil drain plug with new seal.
- Fill up with engine oil, specifications [⇒ page 79](#).
- Please observe the notes for turbocharged engines [⇒ page 81](#).

Tightening torques	Nm
Oil drain plug	30
Sealing cap	25



4.43 Brake system: visual check for leaks and damage

- Check the following components for leaks and damage:
 - ◆ Brake master cylinder
 - ◆ Brake servo
 - ◆ ABS hydraulic unit
 - ◆ Brake calipers
- Ensure that brake hoses are not twisted.
- Make sure that brake hoses do not touch any components even when steering is on full lock.
- Check brake hoses for porosity, blistering and brittleness.
- Check brake hoses and pipes for chafing.
- Check brake pipe connections and mountings for correct seating, leaks and corrosion.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.



WARNING

Any faults found must be rectified (repair measure).

4.44 Brake pads: checking thickness

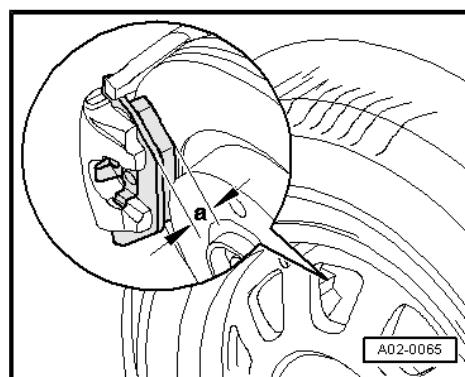


WARNING

When brake pad thickness is down to 7 mm (including backplate) the brake pads have reached their wear limit and must be renewed (repair measure). The customer must be informed.

Front disc brake pads:

- a - Pad thickness including backplate
- Wear limit: 7 mm

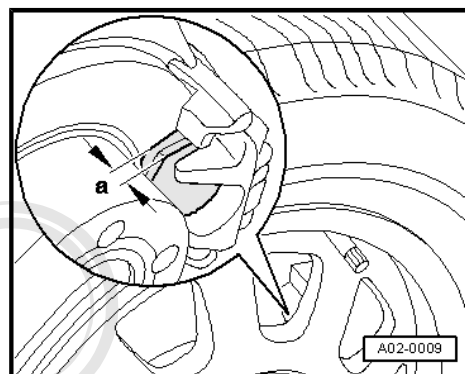


Rear disc brake pads:

- a - Pad thickness including backplate
- Wear limit: 7 mm

Front and rear:

- Determine thickness of outer pads by checking visually (with electric torch through cut-out in wheel).
- Determine thickness of inner pads by checking visually (with help of electric torch and mirror).



4.45 Underseal: visual check for damage

- When performing visual check, check underbody, wheel housings and side members.



WARNING

Any faults found must be rectified (repair measure).

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4.46 Plenum chamber: checking and cleaning water drain



Note

- ◆ Carry out visual inspection of plenum chamber for dirt, e.g. leaves.
- ◆ Clean plenum chamber and water drain if there is any dirt.

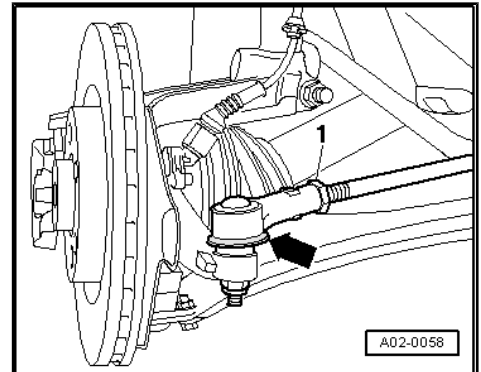
Removing plenum chamber cover ⇒ Rep. gr. 92

4.47 Track rod ball joints: checking play, security and boots

Note

The test must be carried out with vehicle raised on a lifting platform (wheels free to move).

- Check play by moving the track rods and wheels.
- ◆ There should be no play.
- Check that lock nut -1- is properly tightened (50 Nm).
- Check that boots -arrow- are not damaged and are seated correctly.



4.48 Tyres: checking condition, wear pattern, tread depth and correcting inflation pressures.

Note

In the interest of driving safety, only tyres of the same type and tread pattern should be fitted on a vehicle.

4.48.1 Delivery Inspection

- Check tyre tread surfaces and sidewalls for damage and remove any foreign bodies.

4.48.2 Inspection Service

- Check tyres for scuffing, one-sided wear, porous sidewalls, cuts and fractures.



WARNING

Any defects must be reported to the customer.

4.48.3 Checking tyre wear pattern

- The wear pattern of the front tyres indicates, for example, whether the toe and camber have to be checked.
- ◆ Feathering on tread indicates incorrect toe setting.
- ◆ One-sided tread wear is usually due to incorrect camber.



Note

If the above types of wear are found, check wheel alignment to determine the cause (repair measure).

4.48.4 Checking tyre tread depth

- ◆ Minimum depth: 1.6 mm



Note

- ◆ *This figure may vary for individual countries due to different legislation.*
- ◆ *The minimum tread depth is reached when the tyres have worn down level with the 1.6 mm high tread wear indicators positioned at intervals around the tyre.*
- ◆ *If the tread depth is approaching the minimum permissible tread depth, the customer must be informed.*

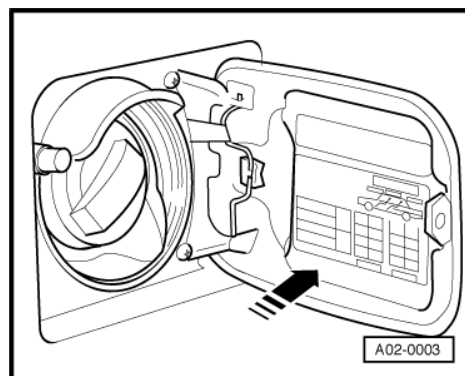
4.48.5 Inflating to correct pressures

The correct inflation pressures for summer tyres are listed on the sticker on the inside of the tank flap.



Note

- ◆ *Please note that the inflation pressures listed on the sticker apply to cold tyres. When the tyres are warm, the actual pressures will be higher, but must not be reduced.*
- ◆ *When using winter tyres, pressures should be increased by 0.2 bar.*



4.48.6 Spare wheel

- Spare wheel with standard-size tyre

Inflate to maximum tyre pressure specified for the vehicle.

- **Temporary (compact) spare wheel**

The correct inflation pressure is indicated on the sidewall.



Note

Check the valve extensions for damage and dirt which could cause leaks. Renew if necessary.

4.49 Winter tyres (factory-fitted)

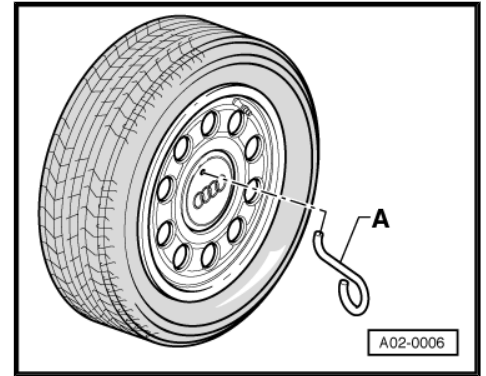
On vehicles supplied from the factory with winter tyres, check the inflation pressures as part of the Delivery Inspection.

The warning sticker indicating the maximum permissible speed for the tyres must be affixed in a position where it is immediately visible to the driver.

4.50 Wheel bolts: tightening to specified torque

4.50.1 Trim cap

Puller -A- for removing trim caps is included in vehicle tool kit.



4.50.2 Wheel bolts

The adapter for loosening and tightening anti-theft wheel bolts is included in vehicle tool kit.



Ensure that wheel bolts are tightened diagonally and alternately to the following tightening torque:

Tightening torque	Nm
Wheel bolts	120

- Place puller and adapter back in vehicle tool kit after completing work.

4.51 Engine oil: filling up

The engine is filled with a high-quality multi-grade oil at the factory: this can be used all year round, except in extremely cold climates.

4.51.1 Viscosity grades

Select the viscosity grade of the oil according to the chart.

Inspection Service

A - High-lubricity multi-grade oils, specification ⇒ [page 80](#)

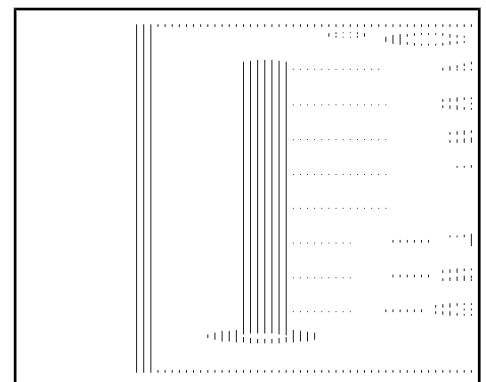
B - Multi-grade oils, specification ⇒ [page 80](#)

LongLife Service

A - LongLife high-lubricity multi-grade oils, specification ⇒ [page 80](#)



The oil does not need changing for brief variations of outside temperature beyond the temperature ranges shown.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted. The publisher and the author assume no liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4.51.2 Viscosity grades and oil specifications

The specifications listed here must appear on the container - either singly or together with other specifications.



Note

- ◆ When topping up it is permissible to mix different types of oil.
- ◆ In the case of LongLife oils, a once-only addition of up to 0.5 ltr. of different oils ➔ [page 80](#) is possible.

4.51.3 Oil specifications for vehicles with petrol engines:

A - High-lubricity multi-grade oils, specification -VW 500- 00 ¹⁰⁾ or high-lubricity multi-grade oils, specification -VW 502- 00 ¹⁰⁾

B - Multi-grade oils, specification -VW 501- 01 ¹⁰⁾

- Multi-grade oils, specification API-SF ¹²⁾ or API-SG ¹²⁾

10) The date given after the VW specification must not be earlier than 10/97.

11) The oils are particularly suitable for turbocharged petrol engines.

12) These oils should only be used if the approved engine oils are not available.

Oil specifications for vehicles with TDI engine:

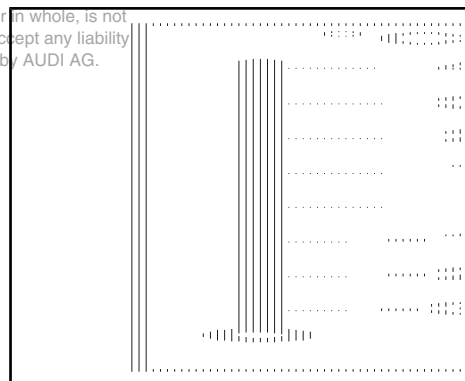
A - Improved lubricity multi-grade oils, specification -VW 500- 00 ¹³⁾ (only in combination with specification -VW 505- 00)

B - Multi-grade oils, specification -VW 505- 00 ¹³⁾ -VW 505- 01 ¹⁰⁾

- Multi-grade oils, specification -VW 501- 01 ¹³⁾ (only in combination with specification -VW 505- 00)

- Multi-grade oils, specification API-CD (should only be used for topping up if approved grades are not available)

13) The date given after the VW specification must not be earlier than 10/97.



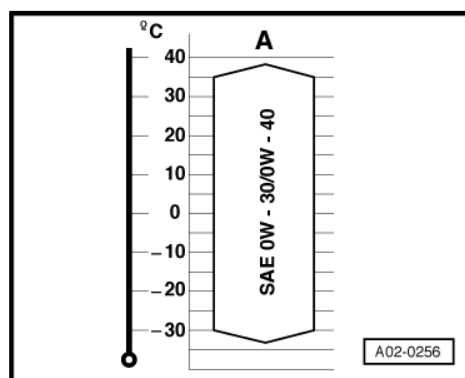
4.51.4 LongLife oil specifications for vehicles with petrol engine:

A - High-lubricity multi-grade oils, for flexible oil change intervals

New VW standard (specially developed, resistant to ageing) according to specification:

-VW 503- 00 Petrol engines / turbocharged petrol engines

-VW 503- 01 Turbocharged petrol engines 154 kW Audi S3



4.51.5 LongLife oil specifications for vehicles with diesel engine:

A - High-lubricity multi-grade oils, for flexible oil change intervals

New VW standard (specially developed, resistant to ageing) according to specification:

- VW 506- 00 Diesel engines (not with unit injector)
- VW 506- 01 Diesel engines (unit injector), as from week 18 / model year 01
- Fill up with engine oil.

Capacities with filter change ⇒ ELSA maintenance table

Engines with turbocharger:

- When the engine oil and oil filter have been changed, it is important to note the following after starting the engine for the first time:
 - ◆ The engine must only run at idling speed as long as the oil pressure warning lamp in dash panel is on. 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.

All engines:

- Finally, check engine oil level ⇒ [page 81](#) .

4.52 Engine: checking oil level



Note

- ◆ *Engine oil temperature at least 60 °C.*
- ◆ *Vehicle must be level (horizontal).*
- ◆ *Wait a few minutes after switching off the engine to allow the oil to flow back into the sump.*
- Pull out the dipstick, wipe with a clean cloth and insert again as far as it will go.
- Pull out the dipstick again and read off the oil level.

Markings on oil dipstick:

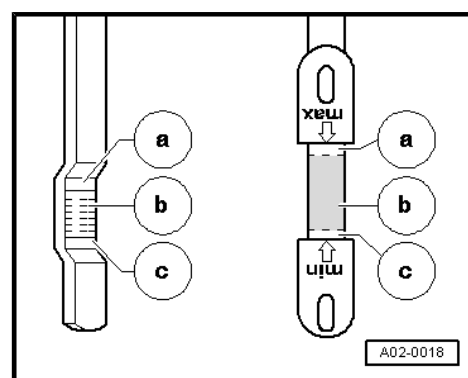
- a - Do not top up oil.
- b - Oil can be topped up. The oil level may rise as far as area -a- after topping up.
- c - Oil must be topped up. The oil level is sufficient if it is somewhere in area -b- (grooved area) after topping up.



Note

The oil level must not be above marking -a- on the dipstick.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.



4.53 Brake fluid level (depends on brake pad wear): checking

Only use new genuine VW/Audi brake fluid in accordance with US standard FMVSS 116 DOT 4.



WARNING

- ◆ *Brake fluid is poisonous. It also has caustic properties and must therefore not be allowed to come into contact with paintwork.*
- ◆ *Brake fluid is hygroscopic, i.e. it absorbs moisture from the surrounding air. It must therefore always be stored in air-tight containers.*

– Note the following:

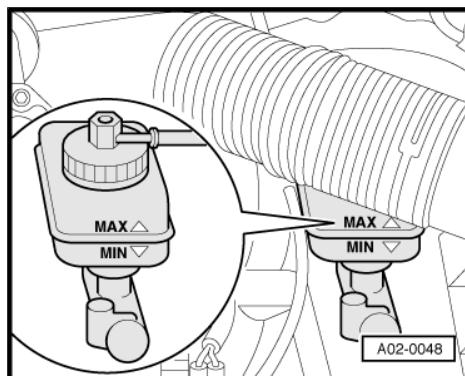
4.53.1 Delivery Inspection

- ◆ The fluid level must be at the MAX mark.



Note

The fluid level must not exceed the MAX marking, otherwise the fluid will overflow.



4.53.2 Inspection Service

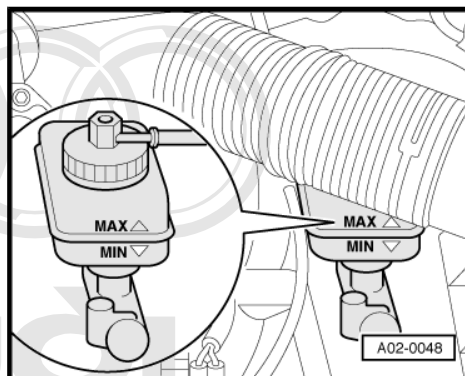
When the vehicle is driven, the brake fluid level will drop slightly with use and as a result of the automatic adjustment of the brake pads.

- When checking the brake fluid level, always take into account the amount of wear on the brake pads:
- ◆ If the brake pads are new or a long way from reaching the wear limit, the fluid level should be between the MIN and MAX marks.
- ◆ If the brake fluid level is at or slightly above the MIN marking and the brake pads have almost reached the wear limit, topping up is not required.



WARNING

If the fluid level has fallen below the MIN mark, check the brake system (repair measure) before adding brake fluid.



4.54 Brake fluid: changing (every 2 years)

This document is not to be used for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4.54.1 Changing brake fluid with brake filling and bleeding equipment -VAS 5234-

4.54.2 Changing brake fluid with brake charge and bleed equipment -V.A.G 1869- as described below

Only use new genuine VW/Audi brake fluid in accordance with US standard FMVSS 116 DOT 4.



WARNING

- ◆ *Brake fluid must on no account come into contact with liquids containing mineral oils (oil, petrol, cleaning agents). Mineral oils damage the plugs and sleeves in the brake system.*
- ◆ *Brake fluid is poisonous and must under no circumstances be sucked through a tube using the mouth. Because of its caustic properties it must also not come into contact with paintwork.*
- ◆ *Brake fluid is hygroscopic, i.e. it absorbs moisture from the surrounding air. It must therefore always be stored in air-tight containers.*
- ◆ *Always observe the relevant environmental regulations for disposal.*

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4.54.3 Special tools and auxiliary equipment required:

- ◆ Brake charge and bleed equipment -V.A.G 1238 B- or -V.A.G 1869-
- ◆ Container for collecting used fluid

4.54.4 Changing brake fluid with brake charge and bleed equipment -V.A.G 1238 B- or -V.A.G 1869-

- Open brake fluid reservoir.



Note

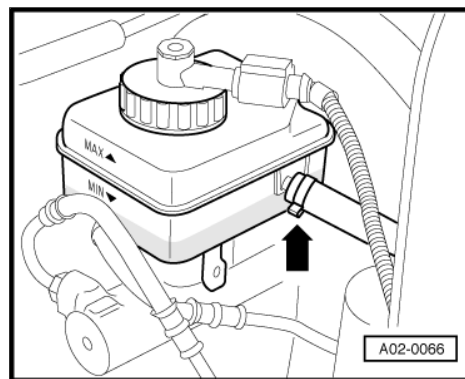
The brake fluid reservoir must always be adequately filled to ensure that no air can enter the brake system from the reservoir.

- Open the bleeder screw on brake caliper (rear right).
- Get a suitable container ready to catch the used brake fluid.

- With engine running, use brake pedal to pump out brake fluid until fluid level goes down as far as the connection -arrow- on the reservoir.
- Close bleeder screw.

On vehicles with manual gearbox the clutch slave cylinder must also be „flushed out“ with new brake fluid. When doing so, note the following:

- Connect -V.A.G 1238 B- or -V.A.G 1869- , but do not switch on yet.
- Open bleeder screw on clutch slave cylinder.
- Fit bleeder hose leading to brake fluid collector onto bleeder screw on clutch slave cylinder.
- Then switch on bleeder appliance and allow about 100 cm³ of brake fluid to drain out.
- Close bleeder screw.



Sequence for changing brake fluid in brake calipers:

- 1 - Front left-hand brake caliper
 - 2 - Front right-hand brake caliper
 - 3 - Rear left-hand brake caliper
 - 4 - Rear right-hand brake caliper
- Fit bleeder hose leading to brake fluid collector onto bleeder screw for relevant brake caliper.
 - Open bleeder screw and allow about 200 cm³ of brake fluid to drain out.

Used brake fluid is pushed out of the system when new fluid is pumped in.

- Close bleeder screw.
- Disconnect hose from brake fluid reservoir.
- Check pedal pressure and free play of brake pedal.
- ♦ Free play: no more than 1/3 of pedal travel
- During the final test drive, make sure that at least one ABS-controlled brake application is carried out (with noticeable pulsing of brake pedal).

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability for the correctness of information in this document. Copyright by AUDI AG.

4.54.5 Changing the brake fluid with brake charge and bleed equipment - VAS 5234- .

4.54.6 Special tools, testers and auxiliary items required

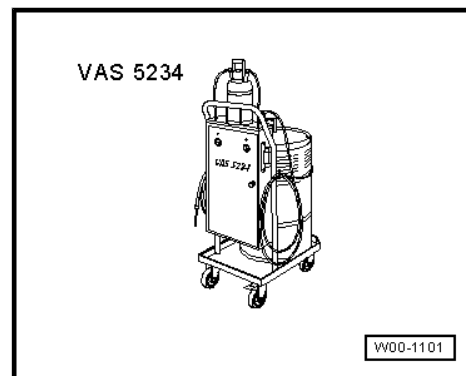
- ◆ -VAS 5234- Brake charge and bleed equipment

Only use new brake fluid with part number B 000 700 A (corresponds to US standard FMVSS 116 DOT 4)



WARNING

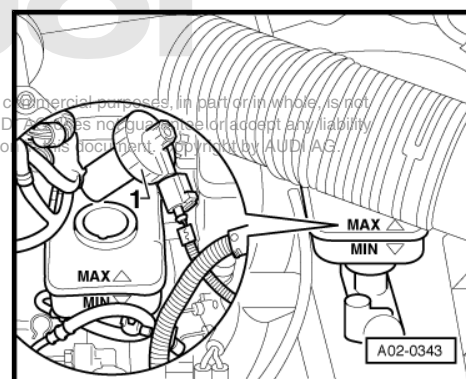
- ◆ *Brake fluid must on no account come into contact with liquids containing mineral oils (oil, petrol, cleaning agents). Mineral oils damage the seals and sleeves in the brake system.*
- ◆ *Brake fluid is poisonous. It also has caustic properties and must therefore not be allowed to come into contact with paintwork.*
- ◆ *Brake fluid is hygroscopic, i.e. it absorbs moisture from the surrounding air. It must therefore always be stored in air-tight containers.*
- ◆ *Use plenty of water to rinse away any brake fluid spillage.*
- ◆ *Always observe the relevant environmental regulations for disposal.*



Observe operating instructions for -VAS 5234- !

- Unscrew cap -1- from brake fluid reservoir.

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.



- Use extraction hose included in -VAS 5234- to extract as much brake fluid as possible.



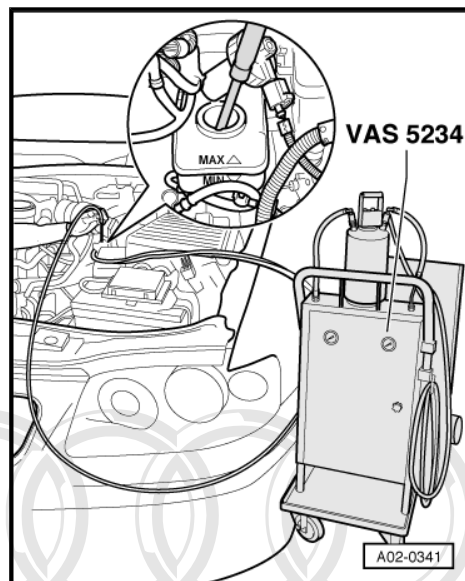
Note

The strainer in the brake fluid reservoir must not be removed.

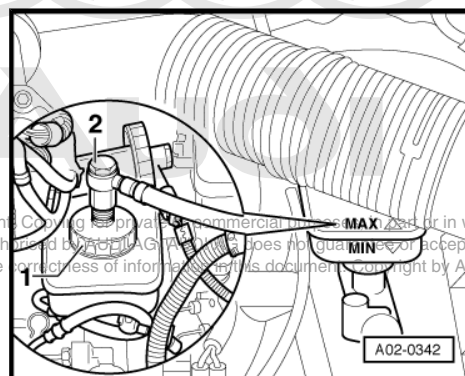


WARNING

Do not reuse the old brake fluid that has been extracted.



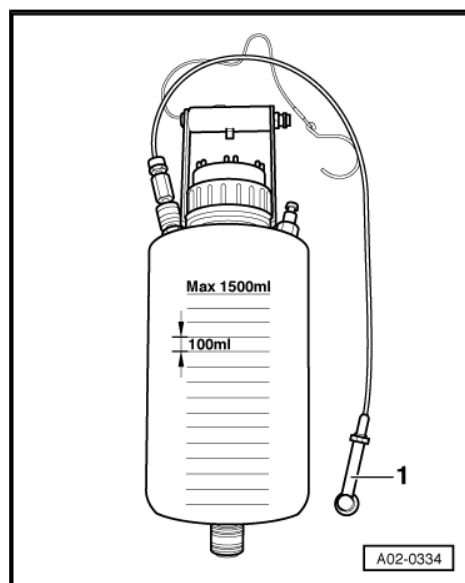
- Connect adapter -1- to brake fluid reservoir.
- Connect filling hose -2- included with -VAS 5234- to adapter.



Protected by copyright. Copying, especially for commercial purposes, in whole or in part, is not permitted unless authorized by Audi AG. Audi AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by Audi AG.

4.54.7 Vehicles with manual gearbox:

- Remove cap from bleeder screw on clutch slave cylinder.
- Connect bleeder hose -1- attached to collector bottle to bleeder screw on clutch slave cylinder, open bleeder screw and let approx. 100 ml flow out. Close bleeder screw and fit cap back on.
- Repeatedly depress the clutch pedal.



4.54.8 Continuation for all vehicles:

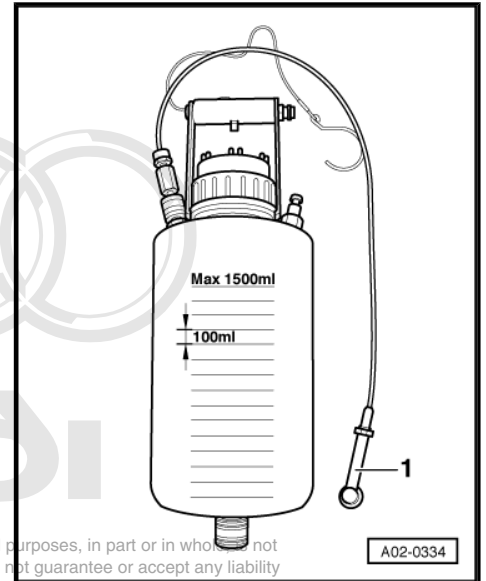
- Remove caps from bleeder screws.

- Connect bleeder hose -1- attached to collector bottle to bleeder screw (front left), open bleeder screw and allow approx. 200 ml of brake fluid to flow out. Close bleeder screw.

Repeat the procedure on the other front side of the vehicle.

- Connect bleeder hose -1- attached to collector bottle to bleeder screw (rear left), open bleeder screw and allow approx. 200 ml of brake fluid to flow out. Close bleeder screw.

Repeat the procedure on the other rear side of the vehicle.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

4.54.9 Table - sequence for changing brake fluid / quantities

Front left	200 ml
Front right	200 ml
Rear left	200 ml
Rear right	200 ml
Total quantity ¹⁴⁾	1,000 ml

14) including brake fluid extracted from brake fluid reservoir and fluid changed in hydraulic clutch system

- Fit caps back on bleeder screws on brake calipers.
- Move filling lever on -VAS 5234- to position -B- (see operating instructions).
- Detach filling hose from adapter.
- Unscrew adapter from brake fluid reservoir.
- Screw cap onto brake fluid reservoir.
- Check brake fluid level and correct as necessary.
- Check pedal pressure and free play of brake pedal. Free play: no more than $\frac{1}{3}$ of pedal travel

4.55 Headlights: checking settings and adjusting if necessary

The following checking and adjustment procedures apply to all countries. However, national legislation and guidelines for individual countries must be adhered to.

4.55.1 Requirements for checking and adjusting

- ◆ Tyre pressures OK.
- ◆ Lenses not damaged or dirty.
- ◆ Reflectors and bulbs OK.
- ◆ Vehicle correctly loaded.

Loading: With one person or 75 kg on the driver's seat and the vehicle otherwise unloaded (unladen weight).

The unladen weight is the weight of the vehicle ready for operation with full fuel tank (at least 90 %) including the weight of all equipment normally carried (e.g. spare wheel, tools, jack, fire extinguisher, etc.).

If the fuel tank is not at least 90% full put in additional weight as follows:

- Read fuel level in fuel tank from the fuel gauge. Calculate additional weight according to the following table and place weight into boot.

4.55.2 Capacity table

Fuel level on fuel gauge	Front-wheel drive Additional weight in kg	Four-wheel drive Additional weight in kg
1/4	40	45
1/2	25	30
3/4	10	15
full	0	0

Protection by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability respect to the correctness of information in this document. Copyright by AUDI AG.

Example: When the tank is half full an additional weight of 25 kg must be placed in the boot if the vehicle is front-wheel drive.



Note

As an additional weight it is best to use a fuel canister filled with water (a 5 litre fuel canister filled with water weighs approx. 5 kg).

Roll vehicle several metres or depress front and rear springs fully several times so that springs settle correctly.

- ◆ Vehicle and headlight adjuster must be on a level surface ⇒ Headlight adjuster operating instructions .
- ◆ Vehicle and headlight adjuster must be aligned.

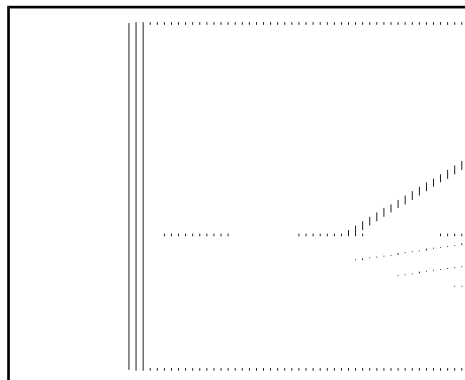
Ensure that the headlight adjuster is positioned 30 cm in front of the headlight.

- ◆ Dip setting must be adjusted.

A „%“ value is marked on top of headlight. This indicates the dip setting that the headlights must be adjusted to. The percentage value is for a range of 10 m. At a dip setting of, for example, 1.0% (for vehicles with headlight range control), this converts to 10 cm.

Vehicles with headlight range control:

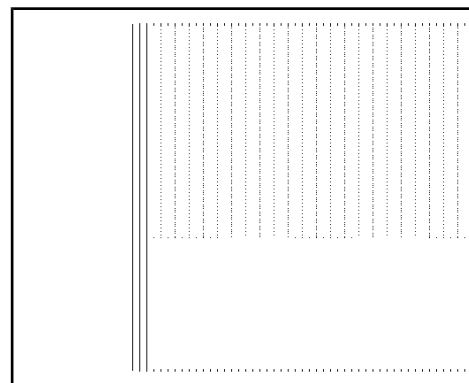
- ◆ The thumbwheel for headlight range control must be in position -0-.



4.55.3 Checking headlight setting (using new test screen without 15° setting line)

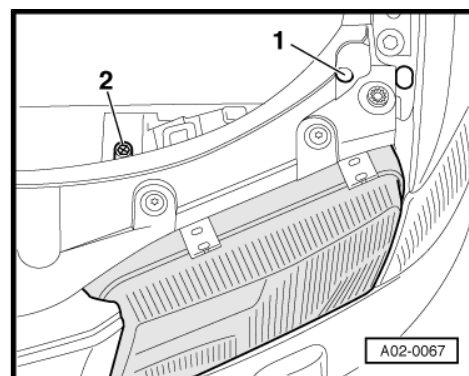
- Check the following:

- ◆ With dipped beam switched on, the horizontal light-dark border should coincide with the setting line -1- on the test surface.
- ◆ The break-away point -2- between the horizontal section of the light-dark border on the left and the rising section on the right should coincide with the vertical line running through the central point -3-. The bright spot in the centre of the beam should be to the right of the vertical line.



 Note

- ◆ To make it easier to find break-away point -2-, cover and uncover left half of headlight (as seen in direction of travel) a few times. Then check dipped beam again.
- ◆ If dipped beams have been adjusted correctly the centre point of the main beam should lie on central point -3-.
- ◆ If using an old test screen with a 15° setting line, the adjustment procedure is the same as for the new test screen. To avoid incorrect settings, ignore the 15° setting line.



4.55.4 Adjusting headlights

- ◆ Vehicles with gas discharge headlights ➔ [page 89](#)
- ◆ Vehicles with halogen headlights ➔ as described below

Headlight (left)

- Adjust setting using a suitable screwdriver (do not damage adjuster wheel) or hexagon key.
- 1 - Height adjuster screw
- 2 - Adjuster screw for lateral setting
- Use a cross-head screwdriver or hexagon key to reset adjuster screw accordingly.

Rapid data transfer
Enter address word XX **HELP**

 Note

On the right headlight, the adjuster screws are in a symmetrically opposite position.

Fog lights incorporated in headlights:

 Note

Fog lights are set automatically when headlights are adjusted.

4.55.5 Adjusting headlights with automatic headlight range control

- Note the requirements for checking and adjusting ➔ [page 87](#).
- Basic setting with -V.A.G 1551- ➔ as described below

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

- Connect -V.A.G 1551- ➔ [page 15](#) .
- ◆ Basic setting with -VAS 5051- ➔ [page 91](#)
- Switch on ignition.
- Press key 1 for „Rapid data transfer“ mode.

Indicated on display:

Rapid data transfer 55 - Headlight range control	Q
---	---

Address word for automatic headlight range control: 55

- Press key [5] twice.

Indicated on the display:

Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

Rapid data transfer 04 - Basic setting	Q
---	---

- Confirm entry with [Q] key.

4.55.6 Perform basic setting:

- Press keys [0] and [4]. (04 selects „Basic setting“ function).

Indicated on the display:

Basic setting Input display group number XXX	
---	--

- Confirm entry with [Q] key.

Indicated on the display:

System in basic setting Wait	1 ->
---------------------------------	------

- Enter display group number 001.
- Confirm entry with [Q] key.

Indicated on the display:

System in basic setting Set headlight	1 ->
--	------

- The headlights will now be moved into setting position (approx. 15 seconds).

Indicated on the display:

Rapid data transfer Select function XX	HELP
---	------

- The headlights are now in the setting position. Adjust headlights with headlight adjustment device (e.g. -VAS 5046-). Basic setting function 1 switches off automatic range control and fault „Headlights not set“ will be stored in fault memory.
- Press [] key.

Indicated on display:

Rapid data transfer 04 - Basic setting	Q
---	---

- Press keys [0] and [4]. (04 selects „Basic setting“ function).

Indicated on the display:

Basic setting Input display group number XXX	
---	--

- Confirm entry with [Q] key.

Indicated on the display:

System in basic setting Ctrl pos. learnt	2 ->
---	------

- Enter display group number 002.
- Confirm entry with [Q] key.

Indicated on the display:

Rapid data transfer Select function XX	HELP
---	------

- The control unit has now "learnt" this position as reference position. The fault „Headlights not set“ in the fault memory will

be erased and the automatic range control function will be re-stored.

- Press  key.

Indicated on display:

Rapid data transfer
02 - Interrogate fault memory Q

- Press keys  and . (02 selects „Interrogate fault memory“ function).

Indicated on display:

- Confirm entry with  key.

The display shows either no fault or the number of faults that have been stored.

X faults recognised!

- Press  key.

Indicated on display: protected by copyright. Copying for private or commercial purposes, in part or in full, is permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

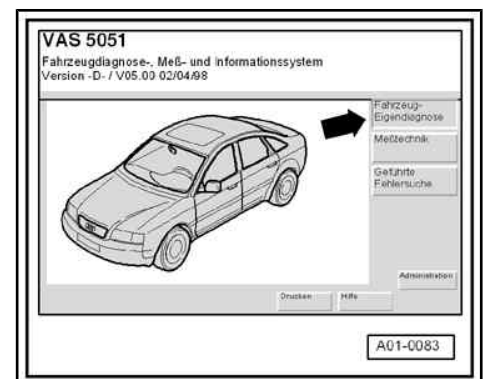
Rapid data transfer
Select function XX HELP

- Press keys  and . (06 selects „End output“ function).

4.55.7 Bringing headlights into basic position using -VAS 5051- :

- Connect the vehicle diagnostic, testing and information system -VAS 5051- ⇒ [page 26](#) .
- Switch on ignition.

Indicated on display:



4.55.8 Selecting operating mode:

- Press button for „vehicle self-diagnosis“ on display -arrow-.

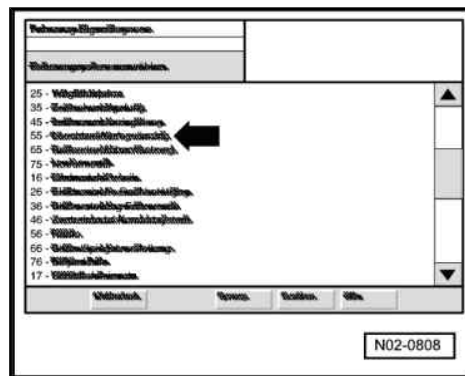


Note

*If the display does not coincide with the work sequence shown:
⇒ Operating instructions for Vehicle Diagnostic, Testing and Information System VAS 5051.*

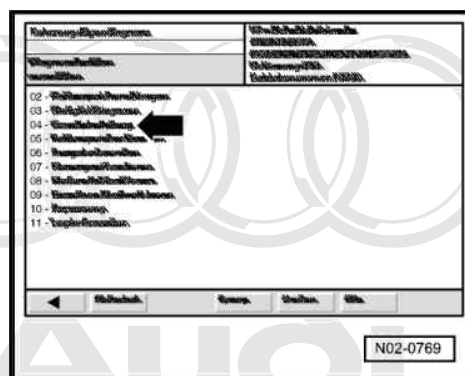
Indicated on display:

- Press „55 - Headlight range control“ on display -arrow-.



Indicated on display:

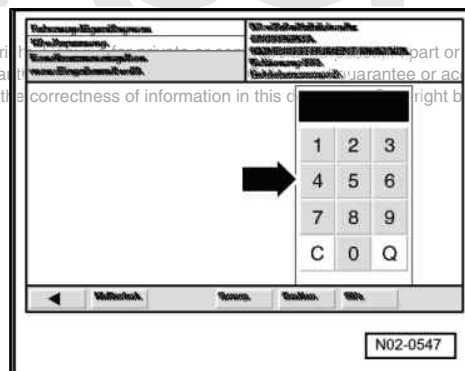
- Press „04 - Start basic setting“ on display -arrow-.



Indicated on display:

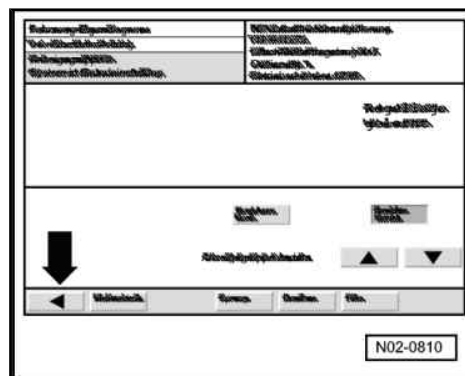
- On the number block of the display -arrow- press 001 (001 selects „display group number 001“).
- Press Q key on display number block to confirm entry.

After the message „wait“, the following display will appear:



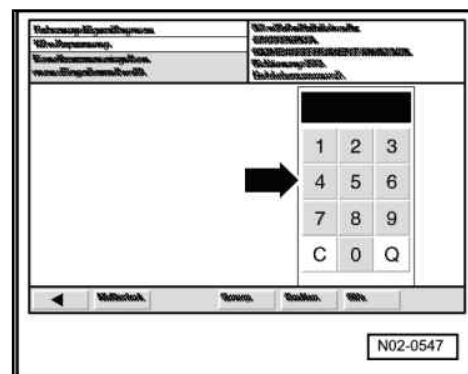
Indicated on display:

- Adjust headlights now ⇒ [page 89](#)
- After adjusting the headlights, press the -arrow- key on the display.



Indicated on display:

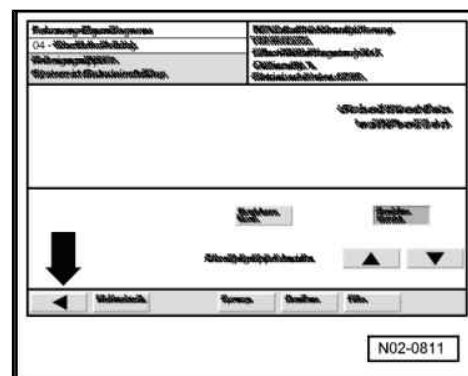
- On the number block of the display -arrow- press 002 (002 selects „display group number 002“).
- Press Q key on display number block to confirm entry.



Indicated on display:

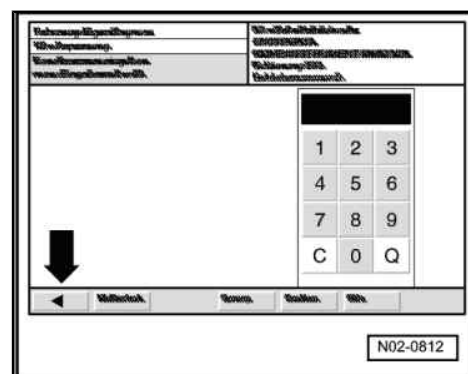
The control unit then „learns“ the reference position of the headlights.

- Press -arrow- button on display.



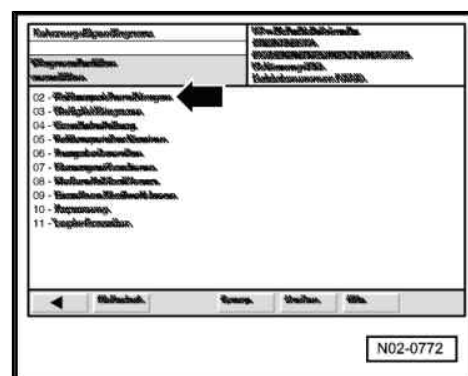
Indicated on display:

- Press -arrow- button on display.



Indicated on display:

- Press „02 - Interrogate fault memory“ -arrow- on the display.



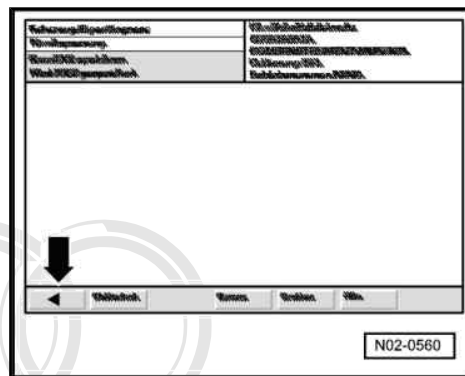
Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

Indicated on display:

Any system faults that are stored will be displayed.

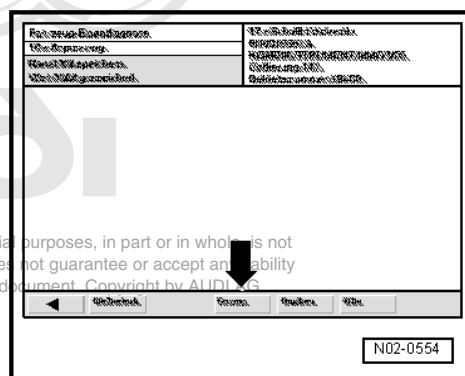
If faults have been stored these must be rectified. The fault log is required for the repair work.

- Press -arrow- button on display.



Indicated on display:

- Press „Go to“ button on display -arrow-.



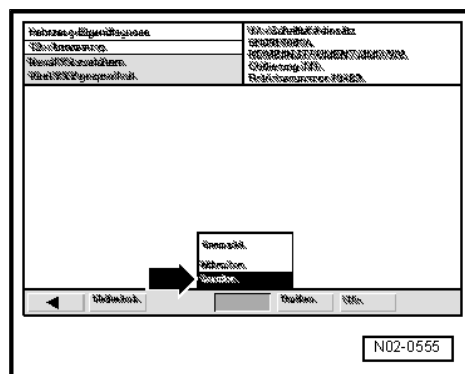
Indicated on display:

- Press „Exit“ button on display -arrow-.
- Press „Exit“ button in the Exit menu.
- Switch off ignition and detach diagnostic connector.

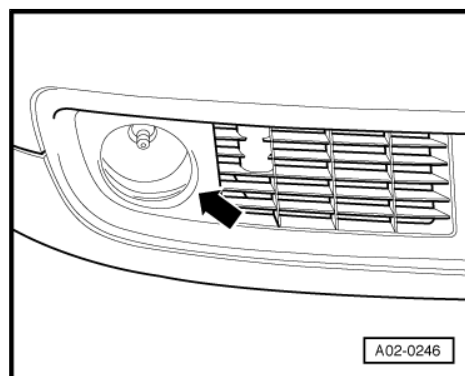
Fog lights incorporated in bumper:

Dip setting:

- ◆ Fog lights 20 cm



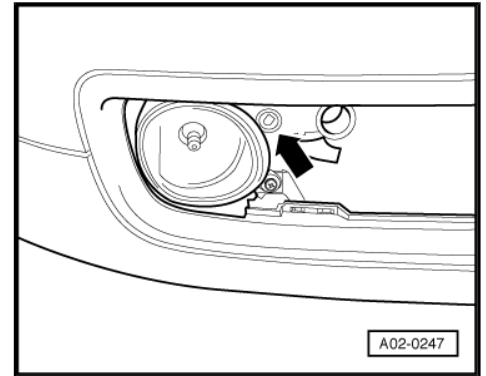
- Pull cover panel -arrow- off lower part of bumper.



- Turn the adjuster screw -arrow- to adjust the range. Lateral adjustment is not possible.

Other additional lights:

Additional lights from other systems which have been retrofitted must be checked and adjusted according to the applicable guidelines.



4.56 Road test

To what extent the following can be checked depends on vehicle equipment and local conditions (urban/country).

- The following points must be checked during the road test:
 - ◆ Engine: performance, misfiring, idling speed, acceleration
 - ◆ Clutch: pulling away, pedal pressure, odours
 - ◆ Gear selection: ease of operation, gear lever position
 - ◆ Automatic gearbox: selector lever position, shift lock / ignition key lock, shift behaviour, instrument cluster display
 - ◆ Brake pedal and handbrake: operation, travel and effectiveness, pulling to one side, juddering, squeal
 - ◆ ABS function: Pulsing must be felt at brake pedal when performing ABS-controlled braking.
 - ◆ Steering: operation, steering free play, steering wheel centralised when wheels are in straight-ahead position
 - ◆ Sliding/tilting sunroof: operation
 - ◆ Cruise control system: operation
 - ◆ Radio: quality of reception, GALA, interference
 - ◆ Driver Information System (DIS): functions
 - ◆ Air conditioner: operation
 - ◆ Vehicle: moving off line when travelling straight ahead (level road)
 - ◆ Imbalance: wheels, drive shafts
 - ◆ Wheel bearings: noises
 - ◆ Engine: hot starting behaviour

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

5 Type plate, vehicle identification number

A - Vehicle identification number

- It is stamped onto the rear cross panel of engine compartment and can be seen through a window in the plenum chamber cover.

B - Type plate

- It is attached to plenum chamber behind right suspension turret.

5.1 Information encoded in vehicle identification number:

5.1.1 Chassis number

W A U	Z Z Z	8 L	Z	Y	A	0 0 0 0 0 1
Manufacturer's mark	Filler characters	Type	Filler characters	Model year 2000	Production location	Serial number

Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

5.2 Vehicle data sticker

The vehicle data sticker can be found in the customer's Service Schedule, and also on the vehicle in the spare wheel well or on the luggage compartment floor.

The sticker contains the following vehicle data:

- 1 - Vehicle identification number
- 2 - Model identification code/ production control number
- 3 - Model code
- 4 - Engine output/ emissions standard/ gearbox
- 5 - Engine and gearbox code letters (not specified on some export models)
- 6 - Paint number/ interior equipment identification number
- 7 - Identification numbers for optional extras
- 8 - Unladen weight/ fuel consumption/ CO₂ emission level (not specified on some export versions)

1	W A U Z Z Z 8 L Z	V A 0 8 3 8 5 6
2	8 L 1	0 C 4
3	A 3	1335384
4	92KW /EG2 M5S	1.8
5	AGN	03/97
6	LZ5L/LZ5L	---- CZM
7	X0A B0A C7S G0C H6S J1L M51 Q1A 1AH 1G3 2PG 1N1 5RQ 5SL TOV 4UE 0G4 8AA 8GD 8RA 1KK 1LR 3FA	N3E/ DJ
8	1184 11,8 6,4 8,4 202	

A02-006B

5.3 Engine code and engine number



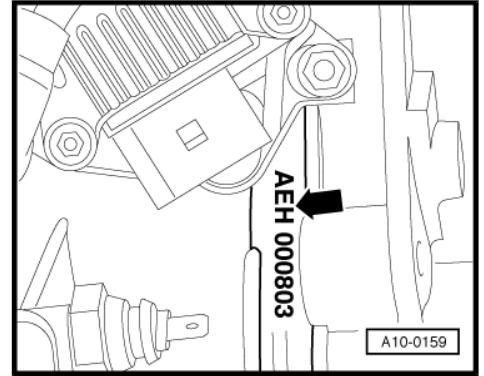
Note

The „engine code“ is also stated on the vehicle data stickers in the Service Schedule and in the spare wheel well or on the luggage compartment floor.

There is also a sticker on the toothed belt guard giving the engine code and engine number.

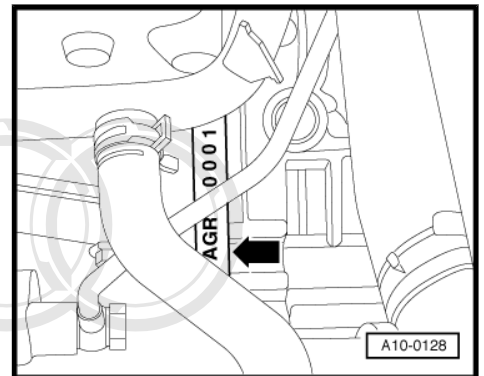
4-cylinder petrol engines:

The engine number („engine code“ and „serial number“) is at the front of the joint between engine and gearbox.



4-cylinder TDI engines:

The engine number („engine code“ and „serial number“) is at the front of the joint between engine and gearbox.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

6 Lifting the vehicle



WARNING

- ◆ *To avoid damaging the vehicle floor and to prevent the vehicle from tipping, the vehicle should only be lifted at the points shown in the illustration.*
- ◆ *Never start engine and engage gear with vehicle lifted, so long as even one driven wheel has contact with the floor. There is a risk of accident if this is not observed.*
- ◆ *If work is to be performed under the vehicle, it must be securely supported by suitable stands.*

Trolley jack:

Always use suitable rubber or wooden blocks to avoid damage.

A trolley jack may only be applied at the lifting points as illustrated.

On no account should vehicle be lifted at engine sump, gearbox or on front or rear axle, as this may cause serious damage.

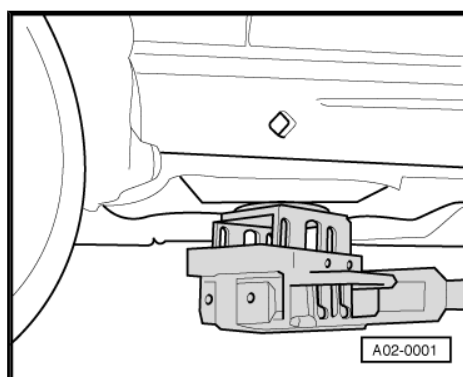
Lifting platform:

Before driving on to a lifting platform ensure there is sufficient clearance between low-lying vehicle components and lifting platform.

Lifting points for lifting platform and trolley jack:

Front:

On longitudinal floor panel reinforcement below indented marking.



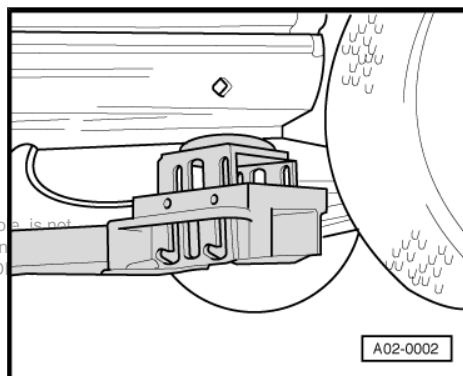
Rear:

On sill reinforcement below indented marking.



Note

The jacking plate must not touch the mounting bracket for the trailing arm, as this could damage the suspension.



7 Tow-starting/towing

- Attach tow rope or tow bar only to the following towing eyes:

7.1 Front towing eye

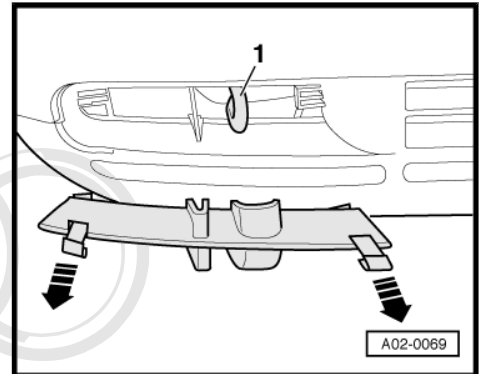
The front towing eye -1- is located behind the air intake grille (bottom right) in bumper.

- Detach air intake grille after pulling the release tabs -arrows-.



Note

When re-installing the air intake grille make sure the release tabs are inserted correctly in the guide sleeves.



Protected by copyright. Copying for private or commercial purposes, in part or in whole, is not permitted unless authorised by AUDI AG. AUDI AG does not guarantee or accept any liability with respect to the correctness of information in this document. Copyright by AUDI AG.

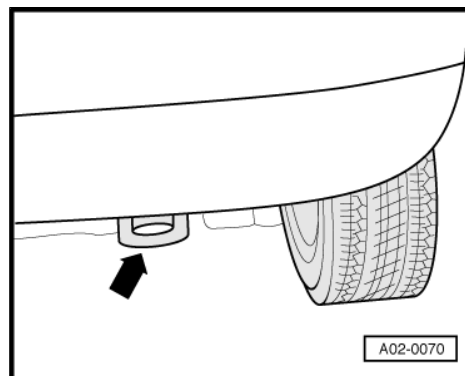
7.1.1 Rear towing eye

The rear towing eye -arrow- is located below the rear bumper (right side).



Note

- ◆ *The tow-rope should be slightly elastic to reduce the risk of damage to both vehicles. It is advisable to only use synthetic fibre ropes or ropes of similar elastic material. However, it is safer to use a tow bar.*
- ◆ *Avoid excessive towing forces and do not jerk. During towing operations on unsurfaced roads there is always a danger that the attachment parts will be over-stressed and damaged.*
- ◆ *The vehicle should only be tow-started if it is not possible to start the engine using jump leads.*



If the vehicle has to be towed or tow-started, please note the following points:

- ◆ Legal regulations concerning towing must be observed.
- ◆ Both drivers must be familiar with towing procedures. Inexperienced drivers should not attempt to tow-start or tow.
- ◆ When using a tow rope, the driver of the towing vehicle must engage the clutch very gently when moving off and changing gear.
- ◆ The driver of the vehicle being towed must ensure that the tow rope is always taut.
- ◆ Both vehicles must switch on their hazard warning lights, unless otherwise specified by local regulations.
- ◆ The ignition must be switched on so that the steering wheel is free and the turn signals, horn and windscreen wiper and washer system can be used.
- ◆ Because the brake servo only works when the engine is running, considerably more pressure is required on the brake pedal when the engine is not running.
- ◆ **As power-assisted steering does not work when the engine is not running; more force is therefore required to turn the steering wheel, when the engine is off.**
- ◆ If there is no lubricant in the manual or automatic gearbox, the vehicle must be towed with the driven wheels raised off the ground.

When tow-starting vehicles with manual gearbox, please note the following points:

- Before moving off, engage 2nd or 3rd gear, press clutch pedal and hold.
- Switch on ignition.
- When both vehicles are moving, release clutch pedal.
- As soon as the engine starts, depress clutch and move gear lever to neutral to avoid running into the towing vehicle.

 Note

- ◆ *Vehicles with a catalytic converter (petrol engines only) must not be tow-started over a distance of more than 50 m with the catalytic converter at operating temperature. Otherwise, unburnt fuel may enter the catalytic converter and cause damage.*
- ◆ *For technical reasons, it is not possible to tow-start a vehicle with an automatic gearbox.*

When towing vehicles with automatic gearbox, please also note the following:

- ◆ Selector lever must be in position „N“.
- ◆ Do not tow vehicle at a speed of more than 50 km/h.
- ◆ The maximum towing distance is 50 kilometres.

If towing over greater distances, the vehicle must be lifted at the front.

Reason: When the engine is not turning the gearbox oil pump will not work - the gearbox will therefore not be adequately lubricated for higher speeds or longer distances.

When using a breakdown vehicle, the vehicle can only be towed with the front wheels raised.

Reason: If vehicle is towed when raised at rear, the drive shafts will turn backwards. As a result, the planetary gears in the automatic gearbox will then turn at such high speeds that the gearbox will be severely damaged in a short time.

 Note

If it is not possible to tow the vehicle normally, it must be transported by a special transporter or trailer. This also applies to distances greater than 50 kilometres.