Instrument cluster, On Board Diagnostic (OBD) (through M.Y. 1999)

General information

Instrument cluster technology

The Audi A4 instrument cluster is available in two versions; the low-line version with "mini-check" system and the high-line version with an LCD multi-function display.

The mini-check system monitors the brake system, Engine Coolant Temperature (ECT), fuel level and engine oil pressure.

The multi-function display contains the following functions:

- Auto check system with radio station and telephone displays
- Ambient outside temperature display
- On-board computer display
- Transmission Range (TR) selector lever display for automatic transmission

- Navigation

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The speedometer contains a LCD display for the odometer, a trip odometer and the Service Reminder Indicator (SRI).

Indicator lamps are integrated in the speedometer and tachometer.

Accessory instruments are integrated into the instrument cluster.

The instrument cluster is controlled by a microprocessor and has extensive On Board Diagnostic (OBD) capabilities. If any component exhibit signs of failure, a Diagnostic Trouble Code (DTC) is stored in the instrument cluster DTC memory. The DTC can then be identified using the VAG1551 or VAG1552 Scan Tool (ST).

Note:

The descriptions in this Repair Manual reference the VAS5051 Diagnostic Operation Center (DOC) and the VAG1551 Scan Tool (ST).

The following Adaptations (adjustments) can be carried out using the tool:

- Adaptation of the fuel sensor characteristics
- Adaptation of the fuel consumption display
- Coding the language versions for the on-board computer and Auto Check system.
- Adaptation of the Service Reminder Indicator (SRI)
- Adaptation of the odometer after instrument cluster replacement.

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Instrument cluster replacement notes

- Do not disassemble the instrument cluster.
- All warning and indicator bulbs can be replaced separately: m.y. ⮞1997 ⇒ Page 90-4 ; 1998 ⮞ ⇒ Page 90-15 . All other malfunctions require replacing the complete instrument cluster.
- If necessary, the instrument cluster should be exchanged within the parts exchange program.
- Fill in the Failure Description Form and send it in, together with the instrument cluster.
- The instrument cluster must be sent back in its original packaging.
- When replacing the instrument cluster, set the Odometer display and the Service Reminder Indicator (SRI) using the VAG1551 Scan Tool (ST) ⇒ Page 01-32 .

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On Board Diagnostic (OBD), initiating program

Special tools, test equipment and auxiliary items

- VAS5051 Diagnostic Operation Center (DOC) and/or VAG1551 Scan Tool (ST).
- VAG1551/3 adapter cable

Test requirements

- Fuses OK

⇒ *Electrical Wiring Diagrams Troubleshooting & Component Locations*

- Instrument cluster coding checked according to coding table ⇒ Page 01-25
- Connect VAS5051 Diagnostic Operation Center (DOC) or
- Connect VAG1551 Scan Tool (ST) ⇒ Page 01-241 .

- Ignition switched on

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Notes:

- *If the VAG1551 display remains blank, check the power supply.*

⇒ *Electrical Wiring Diagrams Troubleshooting & Component Locations*

- *Press the HELP button for additional operating instructions.*
- *Press the → button to advance through the program sequence.*
- *An incorrect entry can be cancelled by pressing the -C- button.*
- *In "Rapid data transfer" operating mode 1, the "Automatic Test Sequence" (address word 00) can be carried out. This will automatically check the DTC memories of all of the control modules in the vehicle which have OBD capability.*

- Switch ignition on.

- Switch printer on by pressing PRINT button (indicator light in button comes on).

- Press button -1- to select "Rapid data transfer" operating mode 1.

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

➢ Indicated on display

Address word for instrument cluster: 17

- Press buttons -1- and -7-.

Rapid data transfer	**Q**
17 - Instrument Cluster	

➢ Indicated on display

- Press -Q- button to confirm input.

8D0919930L B5-Instrument Cluster VDOX16	
Coding 00262	**WSC 06812**

➢ Indicated on display (after approx. 5 seconds) (example)

- 8D0919930L: part number of instrument cluster (see also parts exchange program)
- B5-Instrument Cluster: component designation
- VDO: manufacturer ID (UN4 = Nippon Seiki, VD0 = VDO)
- X16: instrument cluster software version
- Coding 00262: instrument cluster coding
- WSC 06812: dealership number

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Note:

Check coding using the coding table ⇒ Page 01-25 .

- Press→ button.

Rapid data transfer HELP **Control module does not answer**	⮜	- If one of these four messages is displayed, carry out troubleshooting procedures: ⇒ *Electrical Wiring Diagrams Troubleshooting & Component Locations*
Rapid data transfer HELP **Error in communication link**	⮜	or
Rapid data transfer HELP **K wire not switching to Ground**	⮜	or
Rapid data transfer HELP **K wire not switching to B+**	⮜	or
Rapid data transfer HELP **Select function XX**	⮜	Indicated on display When the HELP button is pressed, a list of possible functions prints out. - Press → button to advance through program sequence.

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On Board Diagnostic (OBD) functions

The following functions are possible:

02 - Check DTC Memory ⇒ Page 01-10

03 - Output Diagnostic Test Mode ⇒ Page 01-15

05 - Erase DTC Memory ⇒ Page 01-20

06 - End Output ⇒ Page 01-22

07 - Code Control Module ⇒ Page 01-23

08 - Read Measuring Value Block ⇒ Page 01-27

10 - Adaptation ⇒ Page 01-32

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Check DTC Memory (scan tool function 02)

Note:

The displayed DTC information is updated only when initiating OBD or with "Erase DTC Memory" function 05.

- Switch printer on by pressing PRINT button (indicator light in button comes on).

Rapid data transfer HELP **Select function XX**	Indicated on display

- Press buttons -0- and -2- to select "Check DTC Memory" function 02.

Rapid data transfer Q **02 - Check DTC Memory**	Indicated on display

- Press -Q- button to confirm input.

X DTC recognized →	The number of stored DTCs appears in the display.

The stored DTCs are displayed and printed out one after the other.

- Check print-out against DTC table (⇒ Page 01-12) and repair all malfunctions as necessary.

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No DTC recognized! →	If "No DTC recognized!" is displayed, the program will return to "Select function XX" prompt after the → button is pressed.
Rapid data transfer **HELP** **Select function XX**	Indicated on display If something different appears on the display: ⇒ *VAG1551 Scan Tool (ST) operating instructions* - End output (function 06) ⇒ Page 01-22 - Switch ignition off and disconnect scan tool from Data Link Connector (DLC).

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Diagnostic Trouble Code (DTC) table for instrument cluster

Notes:

- *The following table lists all possible Diagnostic Trouble Codes (DTCs) which the instrument cluster can recognize and which the VAG1551 scan tool can print.*
- *DTC numbers only appear on the printout.*
- *Before replacing any component shown as malfunctioning, check all related wiring and connections of these components and the Ground (GND) connections ⇒ Electrical Wiring Diagrams Troubleshooting & Component Locations*
- *After the repair has been carried out and the functional system check, re-check and erase the DTC memory using the VAG1551 scan tool.*
- *The DTC memory records all static and sporadic (intermittent) malfunctions. A malfunction is considered static if it exists for at least 2 seconds (exceptions: 60 seconds for outside temperature display and 30 minutes, for engine coolant sensor). If the malfunction is not present after this time, it will be stored as a sporadic DTC and "/SP" will appear on the right side of the scan tool display.*
- *After switching the ignition on, all existing DTCs are set to sporadic. If they are still present after the system check, they will be stored as static DTCs.*
- *If a sporadic malfunction does not reoccur within 50 driving cycles (ignition on for at least 5 minutes and vehicle speed greater than 30 km/h or 18 mph), it will be erased.*

DTC	Possible cause	Corrective action
VAG1551 scan tool display		
00667		
Ambient-Temperature Signal ♦ Open/Short circuit to B+ ♦ Short circuit to Ground	Vehicles without air conditioning: ♦ Open circuit or short circuit ♦ Outside air temperature sensor -G17- faulty	Vehicles without air conditioning: - Trace malfunction ⇒Electrical Wiring Diagrams, Troubleshooting & Component Locations - Replace -G17-.
	Vehicles with air conditioning: ♦ Open circuit or short circuit ♦ A/C control head -E87- faulty	Vehicles with air conditioning: - Trace malfunction ⇒Electrical Wiring Diagrams, Troubleshooting & Component Locations - Carry out OBD of air conditioning system ⇒ *Repair Manual, Heating & Air Conditioning, Repair Group 01*
00771		
Fuel Level Sensor-G ♦ Open/Short circuit to B+ ♦ Short circuit to Ground	♦ Open circuit or short circuit between sender for fuel gauge -G- and instrument cluster ♦ Sender for fuel gauge -G- faulty	- Trace malfunction ⇒Electrical Wiring Diagrams, Troubleshooting & Component Locations - Replace -G-.

00779		
Outside Air Temperature Sensor-G17 ♦ Open/Short circuit to B+ ♦ Short circuit to Ground	♦ Open circuit or short circuit ♦ Outside air temperature sensor --G17- faulty	- Trace malfunction ⇒Wiring Diagrams, Troubleshooting & Component Locations - Replace -G17-.

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01039		
ECT Sensor-G2 ♦ Open/Short circuit to B+ ♦ Short circuit to Ground (GND)	♦ Open circuit or short circuit between Engine Coolant Temperature Sensor (ECT) -G2- and instrument cluster ♦ ECT sensor -G2- faulty	- Trace malfunction ⇒Electrical Wiring Diagrams, Troubleshooting & Component Locations - Replace -G2-.
01402		
Data Wire from Navigation ♦ Incorrect signal	♦ Open circuit in clock enable or data wire ♦ Navigation/instrument cluster interface malfunctioning ♦ Malfunction caused by electromagnetic interference inside and outside vehicle	- Check data wire for damage. - Check causes for electromagnetic malfunctions. ⇒ Repair Manual Radio, Telephone, Navigation, Repair Group 97
65535		
Control Module Malfunctioning	♦ Instrument cluster faulty	- Replace instrument cluster ⇒ Page 90-1 .

Output Diagnostic Test Mode (scan tool function 03)

Notes:

- *Output Diagnostic Test Mode may only be carried out on a stationary vehicle with the engine off.*
- *Trace any faults identified by the Output Diagnostic Test Mode, replace the instrument cluster if necessary.*

The function "Output Diagnostic Test Mode" cycles all the control elements in the instrument cluster sequentially, if they are installed and coded.

- Concurrent testing of the display ranges of all the analog indicators (coolant temperature gauge, tachometer, speedometer and fuel gauge).
- Activation of the mini-check indicator lights.
- Activation of the seat belt warning lamp.
- Activation of the chime.

- Segment check of the multi-function display and/or the LCD odometer.
- Activation of the instrument cluster lights and dimmer.
- Coolant excess temperature test

Notes:

- *The instrument cluster lighting test can only be carried out with the lights on.*
- *The coolant excess temperature test activates the A/C compressor safety shut-off.*

Initiating Output Diagnostic Test Mode

Note:

The units displayed are country specific.

Rapid data transfer HELP **Select function XX**	Indicated on display - Press buttons -0- and -3- to select "Output Diagnostic Test Mode" function 03.
Rapid data transfer Q **03 - Output Diagnostic Test Mode**	Indicated on display - Press -Q- button to confirm input. This will start the Output Diagnostic Test Mode for the analog instruments (displays).
Output Diagnostic Test Mode → **Analog Indicators**	Indicated on display

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After pressing the -Q- button, the following tests are run:

- Coolant temperature gauge needle moves over complete range
- Tachometer needle moves over complete range
- Speedometer needle moves over complete range
- Fuel gauge needle moves over complete range

The following preset values are displayed at the end of the test:

Coolant temperature display:	90 ° C (194 ° F)
Tachometer:	3000 RPM
Speedometer:	100 km/h (62 mph)
Fuel level:	1/2

Note:

If the ignition is switched on or off with any gauge

needle in motion, its movement will be interrupted.

- Press→ button.

Output Diagnostic Test Mode →

Instrument Cluster Warning Lights Test

< Indicated on display

Activation of mini-check indicator lights

- Press→ button.

Output Diagnostic Test Mode →

Seat Belt Warning Light-K19

< Indicated on display

Activation of seat belt warning light.

Note:

Depending on the model/equipment, the seat belt warning light will be activated via the control module coding. This means that the warning light will be inactive if this test is skipped.

- Press → button.

Output Diagnostic Test Mode →

Chime

< Indicated on display

The chime is activated and sounds continuously.

- Press → button.

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Output Diagnostic Test Mode → **Segment test**	≺	Indicated on display ***Notes:*** ♦ *All indicators on the multi-function display and/or the LCD odometer are cycled.* ♦ *All segments on the multi-function monitor light up and one bar remains dark.* - Press → button.
Output Diagnostic Test Mode → **Switch and instrument lighting**	≺	Indicated on display The instrument cluster dimming is tested. - Press → button.
Output Diagnostic Test Mode → **ECT Overheat Test**	≺	Indicated on display The A/C compressor safety cut-out will be activated within approx. 5 seconds. - Press → button.
Output Diagnostic Test Mode → **END**	≺	Indicated on display - Press → button to end Output Diagnostic Test Mode. This returns the scan tool to the "Select function XX" prompt.
Rapid data transfer HELP	≺	Indicated on display

Select function XX

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Erase DTC Memory (scan tool function 05)

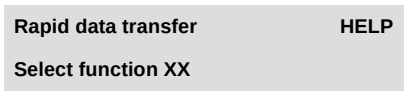
Note:

If the DTC memory cannot be erased, check DTC memory again and repair malfunctions.

Requirements

- DTC memory checked ⇒ Page 01-10
- All malfunctions repaired

After DTC memory has been successfully checked:



- Indicated on display

- Press buttons -0- and -5- to select "Erase DTC Memory" function 05.

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Rapid data transfer Q **05 Erase DTC Memory**	Indicated on display - Press -Q- button to confirm input
Rapid data transfer → **DTC Memory is erased**	Indicated on display DTC memory is now erased. - Press → button.
Rapid data transfer HELP **Select function XX**	Indicated on display ***Notes:***
Attention! **DTC Memory not interrogated**	♦ *This message indicates an error in the test sequence:*
Rapid data transfer → **DTC Memory not interrogated**	♦ *This message indicates an error in the test sequence:* ♦ *Observe the test sequence exactly: first check DTC memory, if necessary repair malfunctions then erase.*

End Output (scan tool function 06)

Rapid data transfer HELP **Select function XX**	Indicated on display - Press buttons -0- and -6- to select "End Output" function 06.
Rapid data transfer Q **06 - End Output**	Indicated on display - Press -Q- button to confirm input
Rapid data transfer HELP **Insert address word XX**	Indicated on display - Switch ignition off. - Disconnect VAG1551 scan tool.

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Code Control Module (scan tool function 07)

This function is used to code the instrument cluster with the following information:

- Optional equipment
- Country specific variations (market versions)
- Number of cylinders
- Engine versions

Notes:

- *Coding sets the various combinations of the on board computer and check package according to the optional equipment, country specific variations, number of cylinders and engine version.*
- *The coding table only contains coding combinations for the Audi A4.*

Initiating instrument cluster coding

Rapid data transfer HELP **Select function XX**	Indicated on display

- Press buttons -0- and -7- to select "Code Control Module" function 07.
- Press -Q- button to confirm input.

Code control module Q **Input code number XXXXX (0-32000)**	Indicated on display - Input code number using Coding table ⇒ Page 01-25 . Example: 00262 00 no optional equipment 2 Country: USA 6 6-cylinders 2 Gasoline engine
Code Control Module Q **Input code number 00262 (0-32000)**	- Indicated on display (example). - Press -Q- button to confirm input
8D0919930L B5-INSTRCLUST VDO X16 **Coding 00262 WSC 06812**	Indicated on display - Press →button to end coding process.
Rapid data transfer HELP **Select function XX**	Indicated on display - Press buttons -0- and -6-.
Rapid data transfer Q **06 - End Output**	Indicated on display - Press -Q- button to confirm input

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Coding table

X				Optional equipment
00				No optional equipment
01				Brake pad wear indicator active
02				Seat belt warning system active
04				Washer fluid level indicator active
16				Navigation (not applicable for USA)
	X			Market version:
	0			Germany (D)
	1			Europe (EU)
	2			USA (US)
	3			Canada (CDN)
	4			Great Britain (GB)
	5			Japan (JP)
	6			Saudi Arabia (SA)
	7			Australia (AUS)

		X		Number of cylinders
		4 6		4-cylinders 6-cylinders
			X	Engine versions
			0 2	TDI engine Gasoline engines, 4 and 6 cylinder

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Notes:

- *Depending on the vehicle equipment, coding for optional equipment is also possible for various combinations.*
- *If more than one option that can be coded is installed, the coding must be entered as the sum of the individual coding numbers.*

Examples

- Washer fluid level indicator and brake pad wear indicator:

  04 + 01 = 05

- Seat belt warning system and washer fluid level indicator:

  02 + 04 = 06

Read Measuring Value Block (scan tool function 08)

Initiating "Read Measuring Value Block" function 08

Rapid data transfer HELP **Select function XX**	Indicated on display - Press buttons -0- and -8- to select "Read Measuring Value Block" function 08.
Rapid data transfer Q **08 - Read Measuring Value Block**	Indicated on display - Press -Q- button to confirm input
Read Measuring Value Block HELP **Input display group number XXX**	Indicated on display - Input display group number from table (⇒ Page 01-28) and press -Q- button to confirm input.

The scan tool will indicate the selected display group.

Display group overview

Display group	**Indicated on display**
001	1 = Vehicle speed (kmh/MPH) 2 = Engine speed (RPM) 3 = Oil pressure switch 2 < min
002	1 = Odometer (km/mi) 2 = Fuel gauge (liters/gal) 3 = Outside temperature (° C/F)
003	1 = Engine coolant temperature (° C/F)
050	1 = Odometer (km/mi) 2 = Engine speed (RPM) 4 = Engine coolant temperature (° C/F)

Notes:

- *The display will always show the actual values from the sensors. Since the instrument panel displays filters the values, they may differ from the actual values.*

- *If the actual Engine Coolant Temperature (ECT) is between 80° C (176° F) and 100° C (212° F), the instrument panel will always display 90° C (194° F).*

- *Additional display groups for the instrument cluster are not possible.*

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Display group 001

Read Measuring Value Block 1 →	◀ Indicated on display
50 km/h	
2400 RPM	
Oil press 2<min	
	Time
	• Not activated for Audi A4
	Oil pressure switch 2
	• Oil pressure switch 2 < min
	• Oil pressure switch 2 OK.
Engine RPM	
• 0 - 9990 RPM	
Road speed	
• 0 - 300 km/h	

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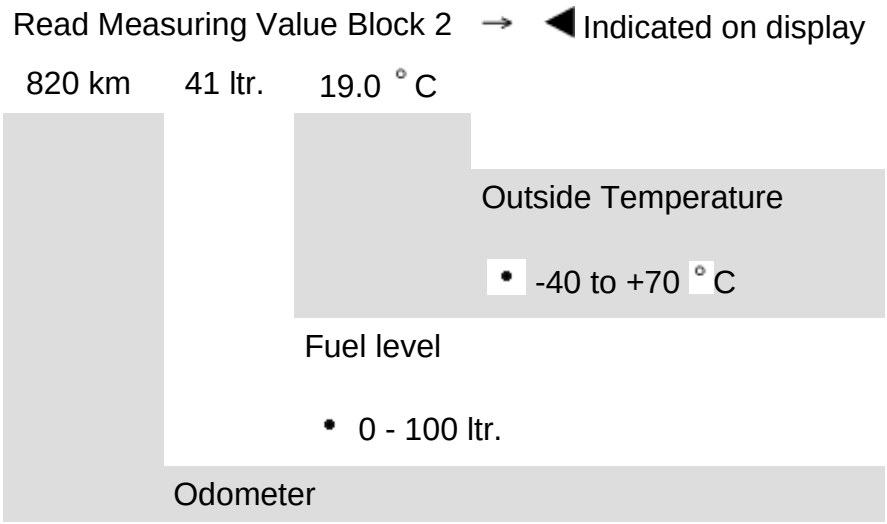
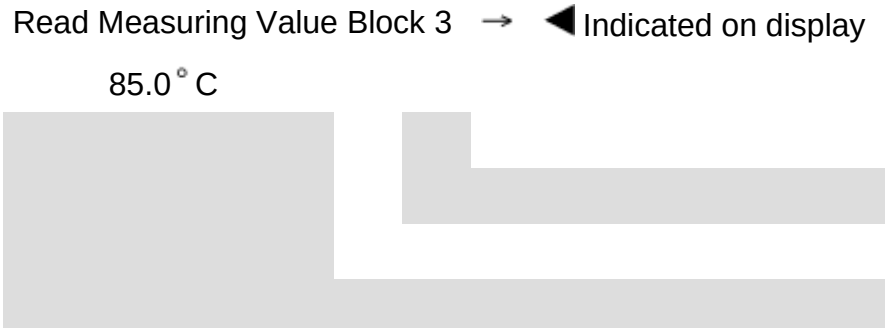
Display group 002



Display group 003



Coolant temperature
• 50 to 130 °C

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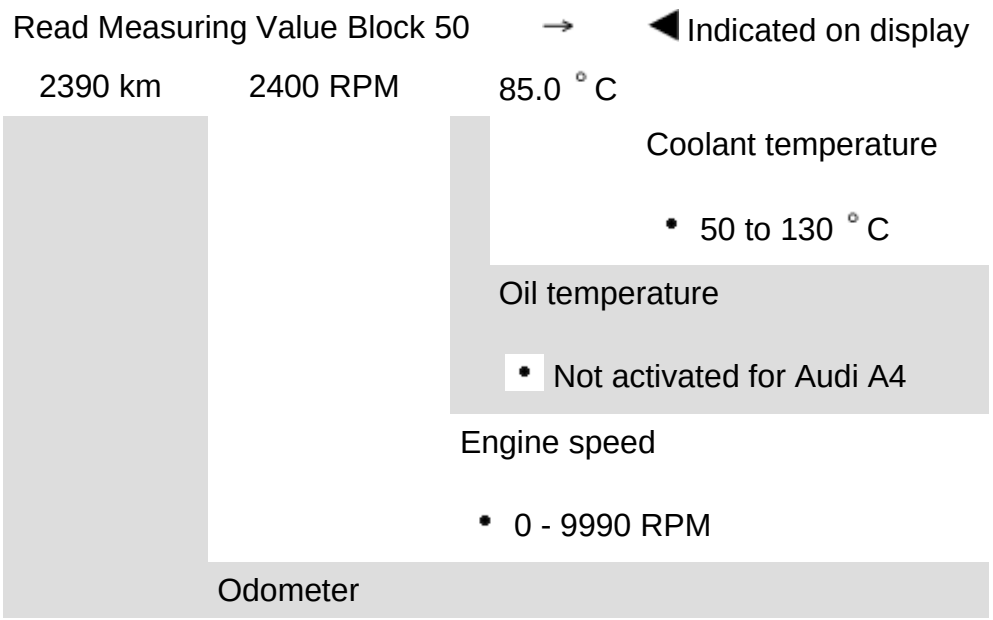
Display group 050



Adaptation (scan tool function 10)

Function 10 is used to initiate and store the following changes:

- Adaptation of fuel gauge display
- Correction of the fuel consumption display
- Coding of language versions for Auto Check system
- Adaptation of the Service Reminder Indicator (SRI)
- Setting the odometer after instrument cluster replacement.

Individual functions are called up by entering the appropriate adaptation channel number (see adaptation table ⇒ Page 01-33).

Adaptation table

Adaptation channel	Adaptation function
01	Adaptation of fuel gauge display ⇒ Page 01-35
02	Resetting SRI after service ⇒ Page 01-45
03	Adaptation of fuel consumption display ⇒ Page 01-39
04	Language versions of the multi-function display ⇒ Page 01-42
05	SRI - service interval for oil change (distance in km) ⇒ Page 01-48
06	SRI - service interval 1 (IN1) distance in km ⇒ Page 01-51
07	SRI - service interval 1 (IN1) time in days ⇒ Page 01-54
08	SRI - service interval 2 (IN2) time in days ⇒ Page 01-57
09	Adapting odometer reading ⇒ Page 01-60

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Adaptation channel	Adaptation function
10	SRI Remaining distance until next oil change service interval after replacing instrument cluster ⇒ Page 01-64
11	SRI Remaining distance until next service interval after replacing instrument cluster ⇒ Page 01-67
12	SRI Remaining time until next service interval after replacing instrument cluster ⇒ Page 01-70
30	Adaptation of fuel gauge sender ⇒ Page 01-73

Initiating "Adaptation" function 10

Rapid data transfer HELP **Select function XX**	Indicated on display - Press buttons -1- and -0- to select "Adaptation" function 10.
Read Measuring Value Block Q **10 - Adaptation**	Indicated on display - Press -Q- button to confirm input.
Adaptation Q **Insert channel number XX**	Indicated on display - Insert desired adaptation channel (⇒ Adaptation table, ⇒ Page 01-33). - Press -Q- button to confirm input.

Note:

After changing an adaptation value or after an adaptation in a specific channel has been completed, "Adaptation" function 10 must be selected again in order to select another adaptation channel.

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Adaptation of fuel gauge display

Rapid data transfer **HELP** **Select function XX**	Indicated on display - Press buttons -1- and -0- to select "Adaptation" function 10 and press -Q- button to confirm input.
Adaptation **Q** **Insert channel number XX**	Indicated on display - Press buttons -0- and -3- to insert channel 03. - Press -Q- button to confirm input

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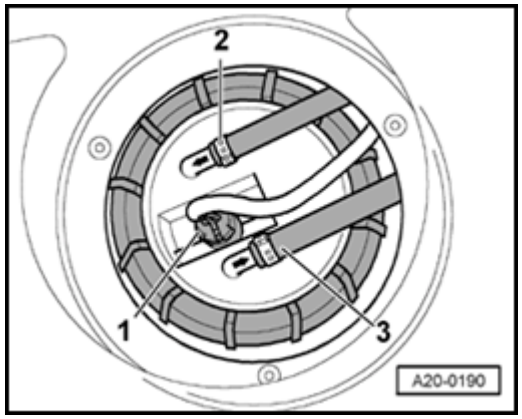
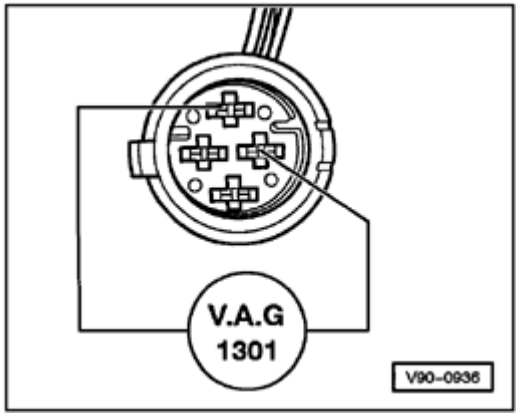


- Disconnect fuel level sensor harness connector (near rear seat back, under trim in trunk), then perform adaptation of fuel level display.
- Switch ignition off.



- Using test lead, connect VAG1301 resistance tester to fuel level sensor (see illustration).
- Set VAG1301 to value of 470.
- Wait approx. 4 minutes, switch ignition on and observe fuel gauge.

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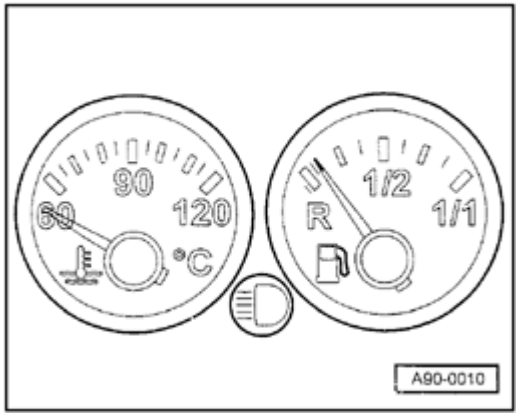

Note:

The fuel gauge reading is correct if the needle remains on the red section at the right side of the reserve zone (see illustration).

- Press buttons -0- and -1-.
- Press -Q- button to confirm input

Channel 1 Adaptation 128 →

< - 1 3- >

- Indicated on display

The new adaptation value can be entered in two ways: step-by-step or directly.

Note:

If a value over 255 is entered, the "adaptation" function will be cancelled and the procedure will have to be started again.

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Step-by-step method:

- Press button -1- to adjust value downward, down to 0 or press button -3- to adjust value upward, up to 255 (example: 215).

Channel 1 Adaptation 215 **Q**

< - 1 3- >

- Indicated on display
- Press -Q- button to confirm input.

Channel 1 Adaptation 215 **Q**

Store changed value?

- Indicated on display
- Press -Q- button to confirm input

Channel 1 Adaptation 215 **→**

Changed value is stored

- Indicated on display
- Press →button to end fuel gauge adjustment.

Rapid data transfer **HELP**

Insert address word XX

Indicated on display

01-39

Adapting fuel consumption display (direct input method)

Rapid data transfer **HELP** **Select function XX**	Indicated on display - Press buttons -1- and -0- to select "Adaptation" function 10 and press -Q- button to confirm input.
Adaptation **Q** **Insert channel number XX**	Indicated on display - Press buttons -0- and -3- to insert channel 03. - Press -Q- button to confirm input ***Notes:*** ♦ *The value entered must be between 85% and 115%.* ♦ *Input is in steps of 5%.*
Channel 3 Adaptation 100 → < **-1 3-** >	Indicated on display - Press → button.

01-40

Note:

Correction of the fuel consumption display is only carried out with the direct input method.

Channel 3 Adaptation 100
Input adaptation value XXXXX

Indicated on display

- Input desired correction value using keypad on VAG1551, fill in leading digits with zeroes "0".

Example:

Desired input value: 90%

Keyboard entry: 00090

Channel 3 Adaptation 100 **Q**
Input adaptation value 00090

Indicated on display

- Press -Q- button to confirm input

Channel 3 Adaptation 90 **Q**
Store changed value?

Indicated on display

- Press -Q- button to confirm input

Channel 3 Adaptation 90 →
Changed value is stored

Indicated on display

- Press → button to end adaptation.

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Rapid data transfer HELP

Insert address word XX

Indicated on display

- Press buttons -1- and -0- to select "Adaptation" function 10 and press -Q- button to confirm input.

Note:

If an incorrect entry is made, the VAG1551 will switch to the following display:

Function is unknown →

or cannot be carried out at the moment.

Indicated on display

- Press → button.
- Select "Adaptation" function 10 and adaptation channel 03 again.
- Repeat adaptation of fuel consumption display and press -Q- button to confirm input.

01-42

Adapting multi-function display language versions

Note:

Adaptation is only carried out on vehicles equipped with on board computer.

Rapid data transfer **HELP** **Select function XX**	Indicated on display - Press buttons -1- and -0- to select "Adaptation" function 10 and press -Q- button to confirm input.
Adaptation **Q** **Insert channel number XX**	Indicated on display - Press buttons -0- and -4-. - Press -Q- button to confirm input
Channel 4 Adaptation 1 → < **-1 3-** >	Indicated on display

Notes:

- *The display shows only the last digit of the five-digit language code, e.g. 1 for German.*
- *Input of incorrect values will end the adaptation function. "Adaptation" function 10 must be selected again.*
- *When using the VAG1551 keypad, only the direct input method can be used.*

01-43

Language version coding table

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

Step-by-step method:

- Press button -1- to move downward and button -3- to move upward through codes. Example: 2 for English.

Channel 4 Adaptation 2 **Q**

< -1 3- >

Indicated on display

- Press -Q- button to confirm input.

Channel 4 Adaptation 2 **Q**

Store changed value?

Indicated on display

- Press -Q- button to confirm input.

Channel 4 Adaptation 2 **→**

Changed value is stored

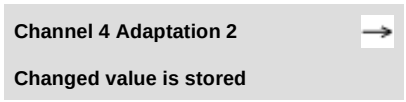
Indicated on display

- Press → button to end language version adaptation.

01-44

Direct input method:

Channel 4 Adaptation 1 → < -1 3- >	Indicated on display
	- Press → button.
Channel 4 Adaptation 1 Q **Input adaptation value XXXXX**	Indicated on display
	- Input desired 5-digit code using keypad ⇒ Page 01-43 .
	Example: Code: 2 (English) Input value: 00002
	- Press -Q- button to confirm input.
Channel 4 Adaptation 1 Q **Input adaptation value 00002**	Indicated on display
	- Press -Q- button to confirm input.
Channel 4 Adaptation 2 Q < -1 3- >	Indicated on display
	- Press -Q- button to confirm input.
Channel 4 Adaptation 2 Q **Store changed value?**	Indicated on display
	- Press -Q- button to confirm input.
	Indicated on display



- Press → button to end language version adaptation.

Resetting SRI after servicing

Rapid data transfer **HELP** **Select function XX**	Indicated on display - Press buttons -1- and -0- to select "Adaptation" function 10 and press -Q- button to confirm input.
Adaptation **Q** **Insert channel number XX**	Indicated on display - Press buttons -0- and -2- to insert channel 02. - Press -Q- button to confirm input.

Notes:

- *It is possible to reset the SRI without using the VAG1551/1552 ⇒ Page 01-77 .*
- *Adaptation channel 2 can only be used for instrument clusters with data version D05 and newer.*

01-46

Channel 2 Adaptation 1 →

< -1 3- >

Indicated on display. (service interval will be displayed, e.g. 1)

1 - indicates that the oil service is due.

10 - indicates that the inspection service is due.

11 - indicates that oil and inspection services are due.

Note:

Reset the SRI using only the direct input method.

- Press → button.

Channel 2 Adaptation 1 →

Input adaptation value XXXXX

Indicated on display

Delete the following service events by using the adaptation values listed below:

Adaptation value	Service Event
00000	Delete OIL and INSP
00010	Delete OIL
00001	Delete INSP

- Using keypad, enter appropriate adaptation value to delete service event, e.g. 00000.
- Press -0- button five times.

01-47

Channel 2 Adaptation 1 **Q**

Input adaptation value 00000

Indicated on display

- Press -Q- button to confirm input.

Channel 2 Adaptation 0 **Q**

< - 1 3- >

Indicated on display

- Press -Q- button to confirm input.

Channel 2 Adaptation 0 **Q**

Store changed value?

Indicated on display

- Press -Q- button to confirm input.

Channel 2 Adaptation 0 →

Changed value is stored

Indicated on display

- Press →button to end SRI reset.

01-48

Adapting SRI for oil change service interval (distance in km)

This function is used to enter the distance (in km) until the next oil change service is due (see service schedule "Maintenance Service").

Rapid data transfer **HELP**	
Select function XX	

Indicated on display

- Press buttons -1- and -0- to select "Adaptation" function 10 and press -Q- button to confirm input.

Adaptation **Q**	
Insert channel number XX	

Indicated on display

- Press buttons -0- and -5- to insert channel 05.
- Press -Q- button to confirm input.

01-49

Channel 5 Adaptation 1 →

< - 1 3- >

Indicated on display

The display shows the number of kilometers remaining until the next oil change service is due (the "1" indicates 1000 km remaining).

Notes:

- *Values can only be entered in increments of 1000 km. Therefore, the distance indicated is in units of 1000.*
- *In countries where speedometers are calibrated in miles, adjustments must still be made in kilometers. Therefore convert miles to kilometers (miles x 1.609 = kilometers) to get the required adaptation value.*
- *If the instrument cluster must be replaced, observe notes ⇒ Page 01-75 .*
- *When using the scan tool keypad, only the direct input method can be used.*
- *If an incorrect value is input, the "adaptation" function 10 will be cancelled and must be initiated again.*

- Press → button.

01-50

Channel 5 Adaptation 1 **Input adaptation value XXXXX**	⮜ Indicated on display - Input desired interval value using keypad on VAG1551, fill in leading digits with zeroes "0." Example: Specification: 15000 km Input value: 00015
Channel 5 Adaptation 1 **Q** **Input adaptation value 00015**	⮜ Indicated on display - Press -Q- button to confirm input.
Channel 5 Adaptation 15 **Q** **< - 1 3- >**	⮜ Indicated on display - Press -Q- button to confirm input.
Channel 5 Adaptation 15 **Q** **Store changed value?**	⮜ Indicated on display - Press -Q- button to confirm input.
Channel 5 Adaptation 15 → **Changed value is stored**	⮜ Indicated on display - Press →button to end SRI adaptation.

Adapting SRI for inspection service Interval-1 (IN1) (distance in km)

This function is used to enter the distance remaining (distance in km) until the next maintenance service is due (see service schedule "Maintenance Service").

Rapid data transfer **HELP** **Select function XX**	Indicated on display

- Press buttons -1- and -0- to select "Adaptation" function 10 and press -Q- button to confirm input.

Adaptation **Q** **Insert channel number XX**	Indicated on display

- Press buttons -0- and -6- to insert channel 06.
- Press -Q- button to confirm input.

01-52

Channel 6 Adaptation 5

< -1 3- >

Indicated on display

The display shows the number of kilometers remaining until the next maintenance service is due (the "5" indicates 5000 km remaining).

Notes:

- *Values can only be entered in increments of 1000 km. Therefore, the distance indicated is in units of 1000.*
- *In countries where speedometers are calibrated in miles, adjustments must still be made in kilometers. Therefore convert miles to kilometers (miles x 1.609 = kilometers) to get the required adaptation value.*
- *If the instrument cluster must be replaced, observe notes ⇒ Page 01-75 .*
- *When using the scan tool keypad, only the direct input method can be used.*
- *If an incorrect value is input, the "adaptation" function 10 will be cancelled and must be initiated again.*

- Press → button.

01-53

Channel 6 Adaptation 11 **Input adaptation value XXXXX**	Indicated on display - Input desired interval value using keypad on VAG1551, fill in leading digits with zeroes "0." Example: Specification: 30000 km Input value: 00030
Channel 6 Adaptation 11 **Q** **Input adaptation value 00030**	Indicated on display - Press -Q- button to confirm input.
Channel 6 Adaptation 30 **Q** **< -1 3- >**	Indicated on display - Press -Q- button to confirm input.
Channel 6 Adaptation 30 **Q** **Store changed value?**	Indicated on display - Press -Q- button to confirm input.
Channel 6 Adaptation 30 → **Changed value is stored**	Indicated on display - Press →button to end SRI adaptation.
Rapid data transfer **HELP** **Select function XX**	Indicated on display

01-54

Adapting SRI for inspection service Interval-1 (IN1) (time in days)

This function is used to enter the time until the next inspection service 1 is due (see service schedule "Maintenance Service").

Rapid data transfer **HELP**	
Select function XX	

Indicated on display

- Press buttons -1- and -0- to select "Adaptation" function 10 and press -Q- button to confirm input.

Adaptation **Q**	
Insert channel number XX	

Indicated on display

- Press buttons -0- and -7- to insert channel 07.
- Press -Q- button to confirm input.

01-55

Channel 7 Adaptation 11 →

< -1 3- >

Indicated on display

The display shows the days remaining until the next inspection service 1 is due (in this example "11" indicates 110 days remaining).

Notes:

- *Values can only be entered in increments of 10 days. Therefore the display shows blocks of 10 days.*
- *If the instrument cluster must be replaced, observe notes* ⇒ *Page 01-75 .*
- *When using the scan tool keypad, only the direct input method can be used.*
- *If an incorrect value is input, the "adaptation" function 10 will be cancelled and must be initiated again.*

- Press → button.

01-56

Channel 7 Adaptation 11 **Input adaptation value XXXXX**	Indicated on display - Input desired interval value using keypad on VAG1551, fill in leading digits with zeroes "0." Example: Specification: 360 days Input value: 00036
Channel 7 Adaptation 11 **Q** **Input adaptation value 00036**	Indicated on display - Press -Q- button to confirm input.
Channel 7 Adaptation 36 **Q** **< - 1 3- >**	Indicated on display - Press -Q- button to confirm input.
Channel 7 Adaptation 36 **Q** **Store changed value?**	Indicated on display - Press -Q- button to confirm input.
Channel 7 Adaptation 36 → **Changed value is stored**	Indicated on display - Press → button to end SRI adaptation.
Rapid data transfer **HELP** **Select function XX**	Indicated on display

01-57

Adapting SRI for inspection service Interval-2 (IN2) (time in days)

This function is used to enter the time until the next inspection service 2 is due (see service schedule "Maintenance Service").

Rapid data transfer	**HELP**
Select function XX	

Indicated on display

- Press buttons -1- and -0- to select "Adaptation" function 10 and press -Q- button to confirm input.

Adaptation	**Q**
Insert channel number XX	

Indicated on display

- Press buttons -0- and -8-.
- Press -Q- button to confirm input.

01-58

Channel 8 Adaptation 45 →

< -1 3- >

Indicated on display

The display shows the days remaining until the next inspection service 2 is due (in this example "45" indicates 450 days remaining).

Notes:

- *Values can only be entered in increments of 10 days. Therefore the display shows blocks of 10 days.*
- *If the instrument cluster must be replaced, observe notes* ⇒ *Page 01-75* *.*
- *When using the scan tool keypad, only the direct input method can be used.*
- *If an incorrect value is input, the "adaptation" function 10 will be cancelled and must be initiated again.*

- Press → button.

01-59

Channel 8 Adaptation 45 **Input adaptation value XXXXX**	Indicated on display - Input desired interval value using keypad on VAG1551, fill in leading digits with zeroes "0." Example: Specification: 720 days Input value: 00072
Channel 8 Adaptation 45 **Q** **Input adaptation value 00072**	- Indicated on display - Press -Q- button to confirm input.
Channel 7 Adaptation 72 **Q** **<** **-1 3-** **>**	- Indicated on display - Press -Q- button to confirm input.
Channel 7 Adaptation 72 **Q** **Store changed value?**	- Indicated on display - Press -Q- button to confirm input.
Channel 7 Adaptation 72 **→** **Changed value is stored**	- Indicated on display - Press →button to end SRI adaptation.
Rapid data transfer **HELP** **Select function XX**	Indicated on display

Adapting odometer display (km/mi)

This function is used to adapt the odometer reading (in km or miles) after replacing the instrument cluster.

Notes:

- *The adaptation function can only be carried out on an instrument cluster with an odometer reading of not more than 100 kilometers (62 miles).*
- *The adaptation function can only be carried out once for each instrument cluster.*
- *Only a larger adaptation value can be entered, not a lower one.*
- *If an incorrect value is entered and confirmed, no correction is possible. If this is the case, the instrument cluster must be replaced with a new one.*
- *In countries where speedometers are calibrated in miles, adjustments must still be made in kilometers. Therefore convert miles to kilometers (miles x 1.609 = kilometers) to get the required adaptation value.*

- *If the instrument cluster must be replaced, observe notes ⇒ Page 01-75 .*

01-61

Selecting function:

- Press -C- button.

Rapid data transfer **HELP**
Select function XX

Indicated on display

- Press buttons -1- and -1- to select "Login-Procedure" function 11.

Rapid data transfer **Q**
11 - Login-procedure

Indicated on display

- Press -Q- button to confirm input.

Login procedure
Enter code number XXXXX

Indicated on display

- Enter code number 13861.

Login procedure **Q**
Enter code number 13861

Indicated on display

- Press -Q- button to confirm input.

Rapid data transfer **HELP**
Select function XX

Indicated on display

- Press buttons -1- and -0- to select "Adaptation" function 10.

Rapid data transfer **Q**
10 - Adaptation

Indicated on display

- Press -Q- button to confirm input.

Adaptation **Q**
Insert channel number XX

Indicated on display

01-62

- Press buttons -0- and -9- to select channel number 09.

- Press -Q- button to confirm input

Channel 9 Adaptation 2 →

< -1 3- >

Indicated on display

Note:

When using the VAG1551 keypad, only the direct input method can be used.

- Press → button to advance through program sequence.

Channel 9 Adaptation 2 **Q**

Input adaptation value XXXXX

Indicated on display

- Input adaptation value using keypad.

Example:

Odometer reading = 89627

0 8 9 6 3

X					Hundred thousands: 100000 - 655350 km