

Service.



Self-Study Programme 256

VAS 5052

Design and Function





256_005

This booklet describes a new diagnostic tool which performs the tasks

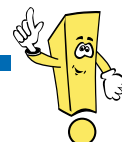
- of the Fault Reader V.A.G 1551 and
- of the Vehicle System Tester V.A.G 1552

as a successor model, and complements the Vehicle Diagnostic, Testing and Information System VAS 5051.

In addition, it is capable of offering further functions in the field of displaying Service Information (ELSA).

The new diagnostic tool thus offers compatibility with predecessor models and a familiar, clearly arranged operation. The diagnostic tool has been developed particularly for mobile use as a second or third unit and can also be used in the workshop as a workpad.

NEW






**Important
Note**



**The Self-Study Programme
is not a Workshop Manual!**

Please always refer to the relevant service literature for up-to-date inspection, adjustment and repair instructions.



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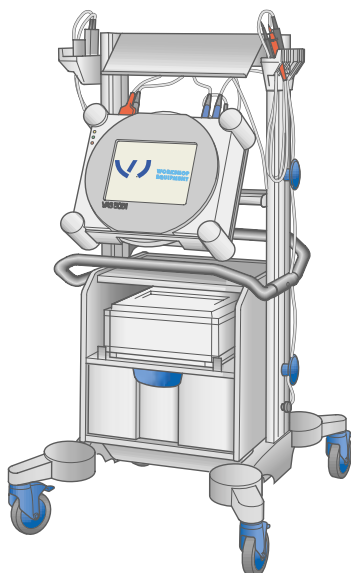
At a Glance

Survey of diagnostic systems

2001



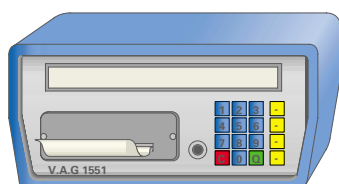
1997



1993



1988



The market launch of the Vehicle Diagnostic and Service Information System VAS 5052 introduces a successor tester for the fault readers V.A.G 1551/1552.

This diagnostic tool complements the Diagnostic System VAS 5051 which has shown its benefits in the field of fault finding.

It makes it possible to perform various tasks in the vehicle service sector which have become necessary as a result of modern vehicle technology.

Modern electronics and the increasing networking of on-board systems in the vehicle have given rise to the need for a fault finding procedure which minimises time and costs. The Vehicle Diagnostic, Testing and Information System VAS 5051 introduced a diagnostic system which combines vehicle self-diagnosis, test instruments and technical documentation. It is the first time that guided fault finding has been implemented at the vehicle. The knowledge base of the diagnostic system which can be constantly updated, therefore provides all the information relating to the vehicle at that moment, and develops the necessary test schedules. The test facilities are rounded off by the multimeter and oscilloscope functions.

The fault reader V.A.G 1552 is as a compact second unit. Operation and function are identical to fault reader V.A.G 1551. Only the Print function has been dispensed with in order to achieve a compact unit.

The increasing application of electrics and the diagnostic facility offered at the control units has necessitated a diagnostic system.

Fault reader V.A.G 1551 is able to communicate with control units over a diagnostic line and display the function as well as measured values of electrical components. It is possible to document fault entries, measured values and test procedures in the form of a hardcopy.

What are the reasons for a new diagnostic system?

As electronic systems increasingly evolve and on-board systems are increasingly interlinked and networked, this gives rise to a wide range of changed tasks in the vehicle service and fault finding sectors.

The fault reader V.A.G 1551 is no longer able to fully satisfy these requirements and therefore must be replaced by a successor unit.

A first step in being able to satisfy these changed service requirements, was undertaken with the introduction of the Vehicle Diagnostic, Testing and Information System VAS 5051. This diagnostic tool for the first time offered the operating modes of „Guided fault finding“ and „Test instruments“, which in the meantime have been shown to be useful aids in fault-finding electronic on-board systems.

The new Vehicle Diagnostic and Service Information System VAS 5052, will be a replacement for the previous fault readers while at the same time complementing the support concept for modern electronic vehicle systems.

This diagnostic tool is a complete solution comprising hardware and software and includes all the necessary diagnostic and service information.

It performs tasks within the sector of vehicle servicing, such as interrogating the fault memories of all the control units, update programming of control units or resetting service interval displays.

The multimedia capability of the tester makes it possible for the new system to be directly integrated in the new concept of Service Training offered by Volkswagen. It is thus possible to work through the various multimedia training programmes directly on-the-spot and thus to provide a wider knowledge base.

The necessary interfaces are provided for accessing service information available on local servers or for accessing Internet data.

A Scan Tool mode permits the data transfer with control units which have an influence on exhaust emissions, of all vehicle manufacturers, as is mandatory as part of the On-Board Diagnosis (OBD) concept.

It is also possible to display on the screen of the diagnostic tool a wide range of service information, such as maintenance table, current flow diagrams, workshop manuals etc. from the „ELSA“ system.

All the required information is available directly at the vehicle and is always as up-to-date as possible.

The two Diagnostic Systems VAS 5051 and VAS 5052 form the basic equipment for all workshops of the Volkswagen Group by virtue of their modern technology and future-oriented capabilities.





Tasks of the new Diagnostic System

In line with its principal field of application as a mobile Vehicle Diagnostic and Service Information System, the VAS 5052 is designed in the form of a rugged unit with an optimal ergonomic layout, weighing about 3.5 kg and suitable for a workshop environment.

It is intended as a second or third unit to complement and enlarge the existing Vehicle Diagnostic, Testing and Information System VAS 5051 already in use in the workshops.

The task of the VAS 5052 is to operate the interfaces to electronic vehicle systems and to render them usable for diagnosis, modifying control unit parameters, calibration (update programming) and further functions to be specified at a future date.

Typical fields of application are:

- interrogating the contents of fault memories of all the control units in a vehicle
- performing service routines via the diagnostic interfaces, such as resetting the service interval display, adapting new vehicle keys, deactivating or activating front passenger/side airbags
- update programming (calibration) of control units
- various applications in the development and manufacturing process of control units or vehicles
- use as workpad in the workshop process, in particular in combination with the Electronic Service Information System (ELSA)
- directly integrated into training concepts as a result of the multimedia capability of the unit



256_027

Highlights of VAS 5052:

- mobile diagnostic tool for servicing vehicles with electronic systems
- for use as a stand-alone unit or in the Client-Server version (refer to p. 29)
- an integral rechargeable battery enables the tester to be operated without mains supply for short periods (charger is integrated)
- tester is operated by means of touch-sensitive 12.1" TFT colour display (touchscreen)
- identical user interface as VAS 5051 in the „Vehicle Self-Diagnosis“ operating mode
- diagnosis communication possible with all (present and future) vehicles of the VW Group
- infrared interface for linking to an external printer
- integrated DVD drive for CD-ROM with repair information and multimedia applications in the specific language
- software updating by means of CD-ROM or on-line
- display for multimedia applications of Service Training
- display for Electronic Service Information System (ELSA), electronic workpad
- Scan Tool for On-Board Diagnosis (OBD)
- standard interfaces for future applications, e. g. Telediagnosis, Wireless LAN (wireless local area network)

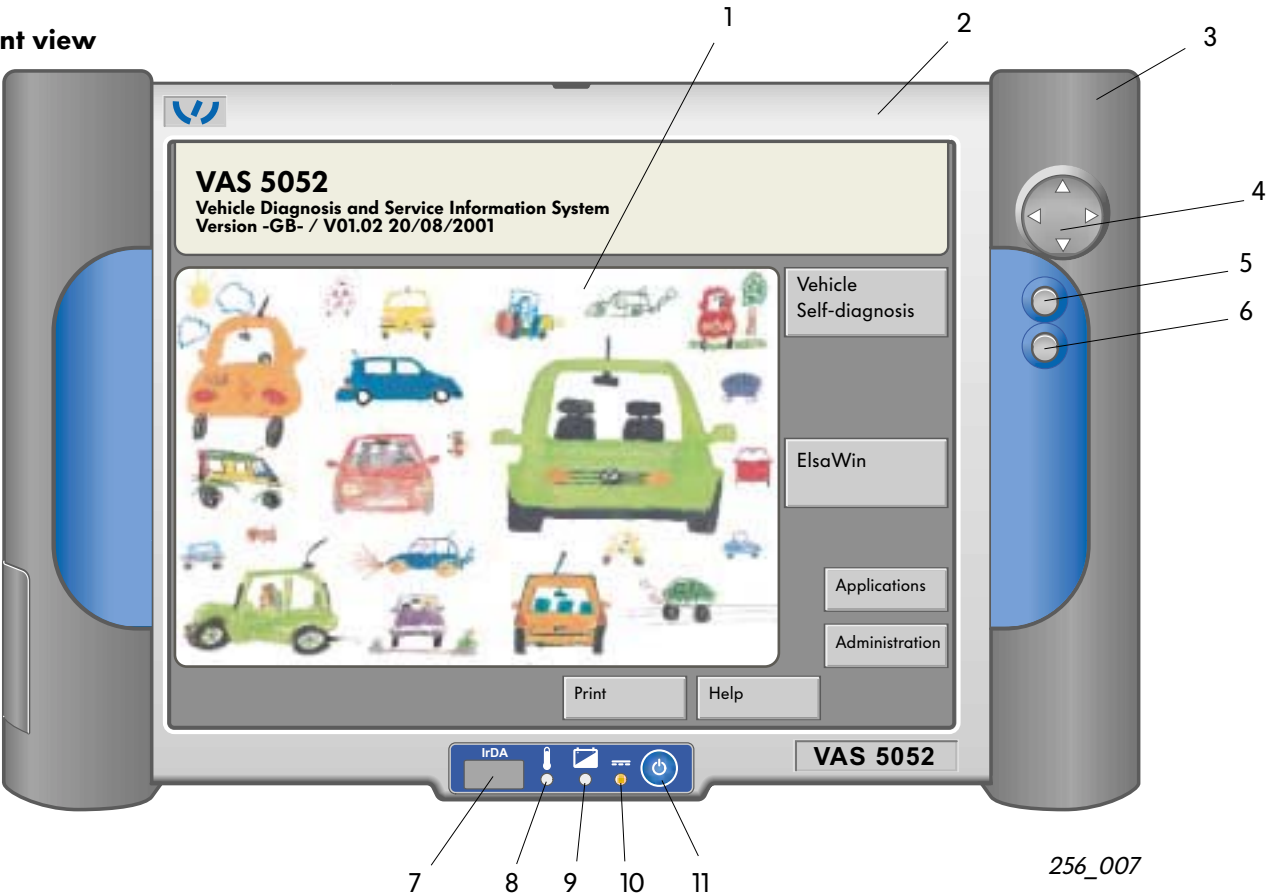


The „Guided fault finding“ and „Test instruments“ modes are not available; they remain in the VAS 5051.

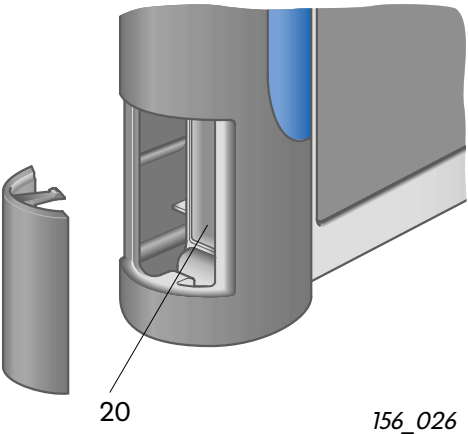
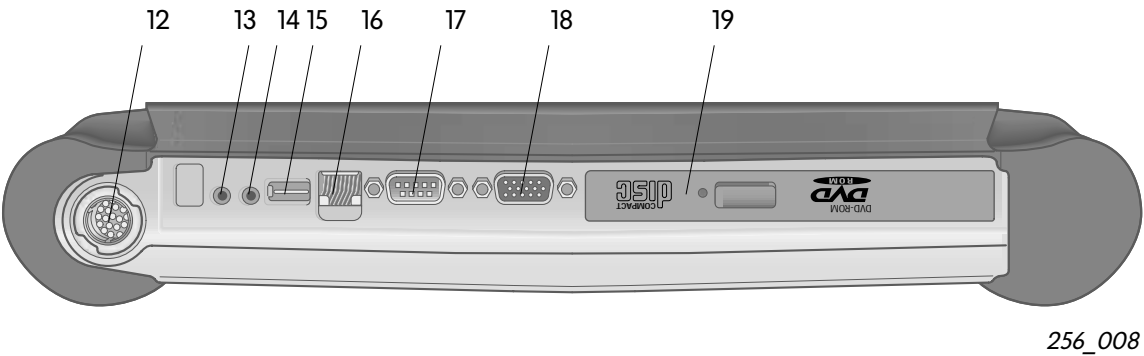
Design and Interfaces

Diagnostic tool

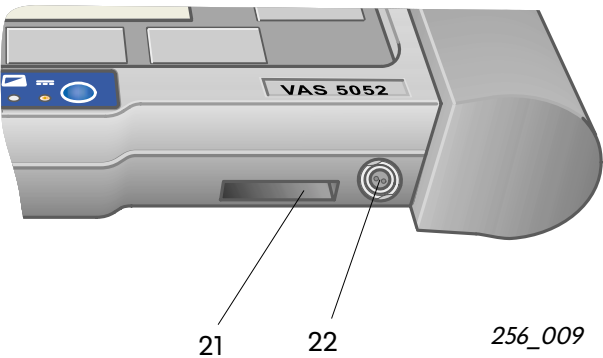
Front view



Top view



Bottom view



Legend relating to p. 8:

Interfaces, buttons and displays

- | | |
|---|--|
| 1 Touchscreen,
touching the screen replaces the function of
a mouse or keypad | 13 3.5 mm dia. jack,
for headphones |
| 2 System housing | 14 3.5 mm dia. jack,
for microphone |
| 3 Rechargeable battery slot,
NiMH round batteries 12 V/2.8 Ah | 15 4-pin connector for USB interface,
(Universal Serial Bus), for
connecting external devices
(e. g. mouse, printer) |
| 4 Navigator button for mouse,
pressing with your finger on one of the arrows
moves the pointer in the appropriate direction | 16 RJ45 connector,
as Ethernet interface for connecting
to a computer network |
| 5 Function button,
equivalent to left mouse button | 17 9-pin sub-D connector for RS232,
(serial interface) |
| 6 Function button,
equivalent to right mouse button | 18 15-pin Sub-HD connector for
VGA interface,
(video graphics adapter), for connecting
external monitor or beamer |
| 7 Infrared
(IrDA) printer interface | 19 DVD drive,
for installing updates and applications
(e. g. ELSA) |
| 8 Excess temperature display,
red: tester not adequately cooled,
switches off automatically after about 10 seconds | 20 PCMCIA (personal computer memory card
interface adapter) slots for 2 x Type II or
1 x Type III,
permits subsequent expansion of
diagnostic tool |
| 9 Charge status display,
yellow: battery charging | 21 Interface to base station |
| 10 External power supply display
green: mains or vehicle electrical system supply
orange: battery supply
flashing orange: battery supply;
battery almost discharged
green/orange flashing: mains or vehicle system
supply, battery missing or
faulty | 22 DC connector,
for external power supply |
| 11 On/Off switch | |
| 12 18-pin mini SNAP connector,
for connecting diagnostic cable
VAS 5052/3 | |



Design and Interfaces

Mechanical design

The mechanical design of the tester takes into account the requirements from the workshop (functionality, design, environment), from production and service (installation, removal, processing) and in terms of environmental compatibility.

The tester is integrated in a magnesium die-cast housing weighing about 3.5 kg, with the dimensions (W x D x H): 365 x 235 x 62 mm.

This system housing incorporates the hardware components:

- On/Off switch
- System platform with processor system (all-in-one board, hard disc, DVD drive, display with integrated touchscreen)
- Internal voltage supply (NiMH round batteries for min. 3.5 h autonomous operation)
- LEDs for status displays (external/internal voltage supply, battery charge function, excess temperature display)
- Diagnosis bus unit with diagnosis interface

The tester can be used in the following climatic conditions:

- ambient temperature range: + 5 up to + 40 °C
- relative air humidity (at max. + 25 °C): 10 up to 80 % (no formation of dew)
- barometric pressure/altitude above mean sea level (MSL): 70 kPa/3000 m

A carry case is available for the tester for mobile use.



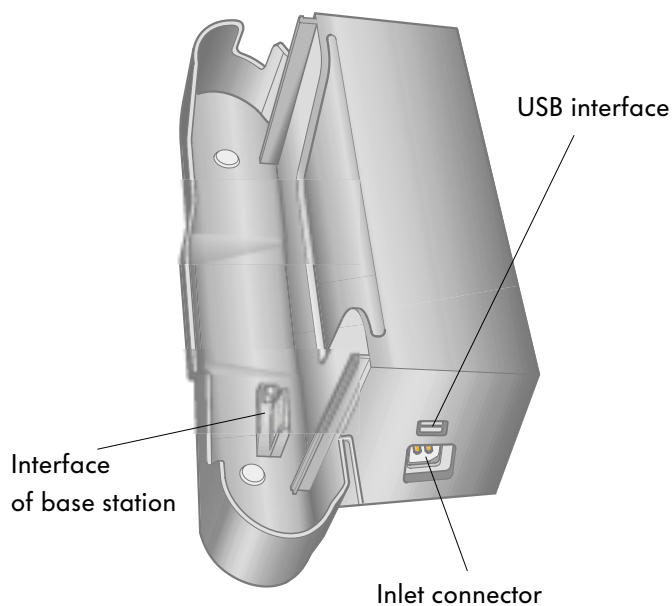
A base station with integral mains unit, included in the parts supplied, rounds off the VAS 5052 system for fixed installation.

It consists of a metal and plastic housing with the dimensions (W x D x H): 376 x 185 x 135 mm and weighing about 2 kg.

The following interfaces are available:

- USB interface
- interface for base station
- inlet connector

The mains unit incorporated in the base station can also be used for recharging the battery. A quick-charge in normal ambient conditions (+ 5 °C up to 40 °C) takes about 120 minutes.



256_010



If the tester is not used for several minutes, the energy saving mode is activated. When the screen is again touched, the last screen selected is again displayed.

Accessories

Also supplied in addition to the base station VAS 5052/2 the following parts are also included

- one diagnostic cable (5 m), VAS 5052/3
- one test adapter for diagnostic cable, VAS 5052/4
- one carry case, VAS 5052/5
- one abbreviated instructions, VAS 5052/6
- the base CD, VAS 5052/7
- headphones, VAS 5052/8
- the multimedia CD „VAS 5052“, VAS 5052/9
- three touchpens, VAS 5052/11 and
- a case as packaging and for transportation, VAS 5052/15.

Further available accessories

- the diagnostic adapter, VAS 5051/2 (for older vehicles)
- the LT diagnostic cable, VAS 5051/4 and
- the Self-Study Programme „VAS 5052“, VAS 5052/22

can be ordered as required.

Operating Modes

Using tester for first time and operating it

The application software of the VAS 5052 is basically identical to the software of the VAS 5051.

The following operating modes have been adopted and in some cases adapted:

- Vehicle Self-Diagnosis
- Applications
- Administration and
- Help

The following functions are not included:

- Guided Fault Finding and
- Test Instruments

The user interface is composed of a high-resolution monitor with touchscreen for the input and output of information.

The following elements on the screen can be used for the input and output of data and for displaying operating states:

- Screens
- Buttons
- Selection lists
- Scroll bars
- Cursor
- Virtual keypads in different versions
- Hour glass for displaying processes in progress

Do not use any sharp-pointed, hot or colouring objects for touching the screen as this will result in damage.



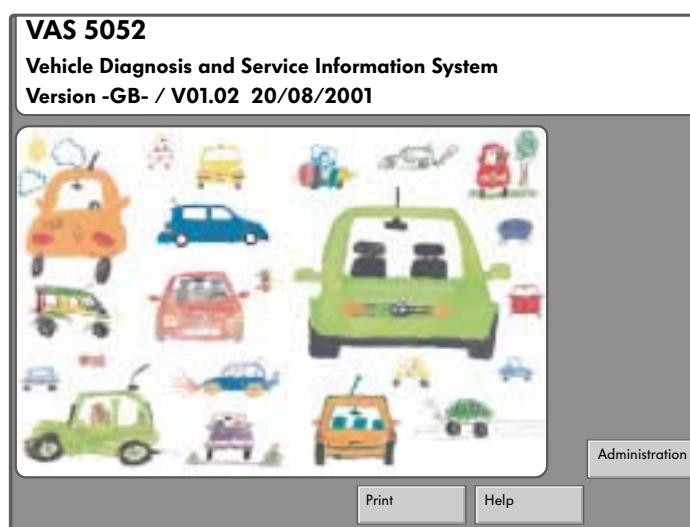
Switching on tester and booting

The tester is supplied ready for operation.

It is switched on by pressing the On/Off button.

When this is done, the booting operation is started, the computer performs the start process and after a short time displays the start screen.

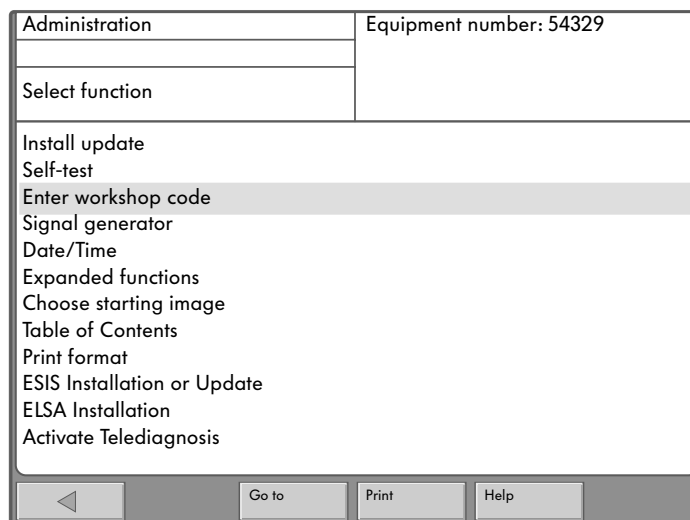
When the tester is switched on for the first time, the following screen appears:



256_011

When the tester is operated for the first time, it is necessary to enter the dealer data in order to have available the buttons for the operating modes of „Vehicle Self-Diagnosis“ and „Applications“.

Select the button „Administration“ in order to open the screen „Administration/Select function“ for entering the „Workshop code“:



256_012



Operating Modes

After selecting the function „Enter workshop code“ you are prompted to enter the dealer data.

This information can be entered on the touchscreen using a selectable virtual keypad which is displayed.

Refer to the information on p. 12!

The dealer data consist of:

- VZ/Importer number (3-digit)
- Dealership number (5-digit) and
- Dealership identifier (2 lines each of 60 characters can be used for dealer name and address)

John Smith, Ltd.									
.	,	+	-	*	/	=	#	&	_
Q	W	E	R	T	Y	U	I	O	P
A	S	D	F	G	H	J	K	L	SH
C	Z	X	C	V	B	N	M		Q

256_001



After the user has made the first two entries and confirmed this, it is no longer possible to change them.

These confirmed data can only be subsequently changed by an authorized group of persons using a code CD.

The user has the possibility of changing the two lines for the dealership identification (name and address) at any time.



Administration	Equipment number: 54329
Enter workshop code	Importer number: 452
	Dealership number: 54325

Confirmation of entry

Warning:
After confirmation of the entry,
no further change
in the importer number and the dealership
number is possible.

256_013

Administration	Equipment number: 54329
	Importer number: 452
	Dealership number: 54325
Select function	John Smith, Ltd.
Install update Self-test Change dealership identification Signal generator Date/Time Expanded functions Select initial graphics CD contents list Print format Install or update ESIS User manual Activate telediagnosis Enter IP address Install ELSA	
<div> ◀ Go to Print Help </div>	

256_014



If you return to the start screen after entering all of the dealership data, a revised screen appears and the operating mode „Vehicle Self-Diagnosis“ and „Applications“ are also now displayed.

In addition, the function „Enter workshop code“ in the screen „Administration“ automatically changes to the function „Change dealership identification“.

If this function is selected, the variable, alphanumeric keypad is shown for entering new or changed data relating to the name or address of the dealership identification.

Operating Modes

Information on the operating concept when tester is started for the first time:

The dealership data are entered in the screen „Administration/Entering workshop code“ in three steps:

- Step 1:
The 3-digit VZ/Importer number is requested in a separate dialog screen. This number is entered by the user using the virtual numerical keypad which is displayed.
The digits entered are shown in the a display field.
It is possible to enter up to three digits. A warning signal sounds if too many digits are entered.

452		
1	2	3
4	5	6
7	8	9
C	0	Q

256_003

The last digit entered can be deleted with the key „C“ (Cancel).
If the entry is correct and complete, it can be confirmed with the key „Q“ (Quit).

- Step 2:
You are now requested to enter the 5-digit dealership number.
The entry is basically made in the same way as before.

After these two steps are completed, a check question appears to ensure that the data entered are correct. You have the opportunity to make any corrections at this stage.

If you confirm the check question - Confirm entry with „OK“ -, the screen for the third step „Enter dealership identification“ now appears.

54325									
1	2	3	4	5	6	7	8	9	0
q	w	e	r	t	y	u	i	o	p
a	s	d	f	g	h	j	k	l	SH
C	z	x	c	v	b	n	m		Q

256_002

- Step 3:
This entry is made using a virtual, alphanumerical keypad with a switch function using the key „SH“, into a display field with two entry lines.
„SH“ (Shift) means switch over between upper case/lower case letters.
„Q“ (Quit) - confirming each line - is pressed to complete the entry.



The equipment number which appears in front of the VZ/Importer number is already entered in the factory.

The dialog between the user and the VAS 5052 makes use of standardised screens, the layout being basically the same as shown below.

1 - Screen

2 - Button

3 - Working window

4- Information window

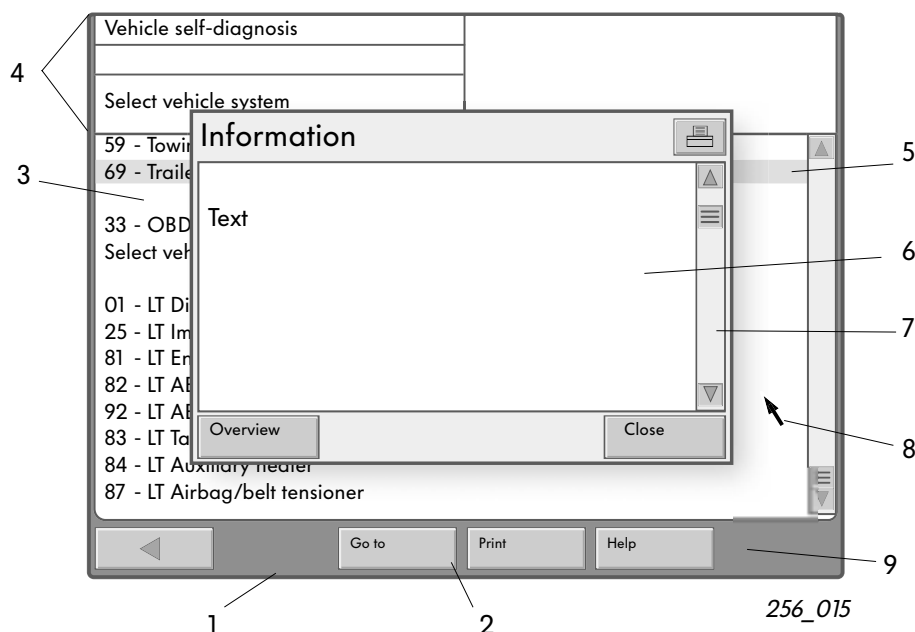
5 - Selection bar

6 - Dialog box

7 - Scroll bar

8 - Cursor

9 - Navigation line



Buttons are used for switching functions on/off. The graphical appearance of the buttons changes according to the selection.

Working windows offer selection lists for completing data. You can make your selection, for example, by touching (touchscreen) the appropriate line with your finger. The selection is activated when you take your finger away.

Information windows are provided in the majority of screens above the working window. The left-hand information window shows the operating mode, subfunctions in the operating mode and operating instructions. The right-hand window shows terms which have previously been selected, or results.

A selection bar identifies the line you have selected. The bar appears „black“ and the lettering „white“.

In the majority of cases, the next screen appears as soon as you have made your selection.

A dialog box is an information field in a main screen. It displays additional information, operating facilities in order to be able to perform further steps, or fault messages.

A scroll bar is shown at the right-hand margin of the dialog box or of a screen if it is not possible to show all of the text.

It consists of a slide and two arrows. It is possible to move up and down within the text by touching the symbols.

You can „scroll“ line-by-line using the „up“ or „down“ arrows.



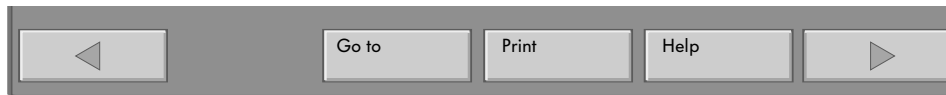
Operating Modes

The navigation line is positioned in the bottom part of the screen.

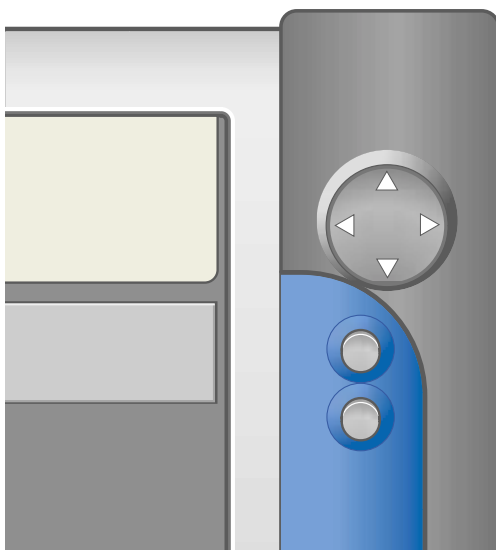
With the buttons located in this line it is possible to select Help and Service functions. The number of buttons depends on the particular screen and on the current state.

Virtual keypads are displayed in the different operating modes depending on the particular function, and hidden again after the data entries have been completed.

Depending on the function, a numerical or alphanumeric keypad is shown (refer to p. 16).



256_017



256_016

A mouse control in a control unit on the front of the tester complements the operation of the touchscreen.

It consists of a round navigation button.

You can use this to move the pointer on the surface of the screen horizontally and vertically in the x and y direction.

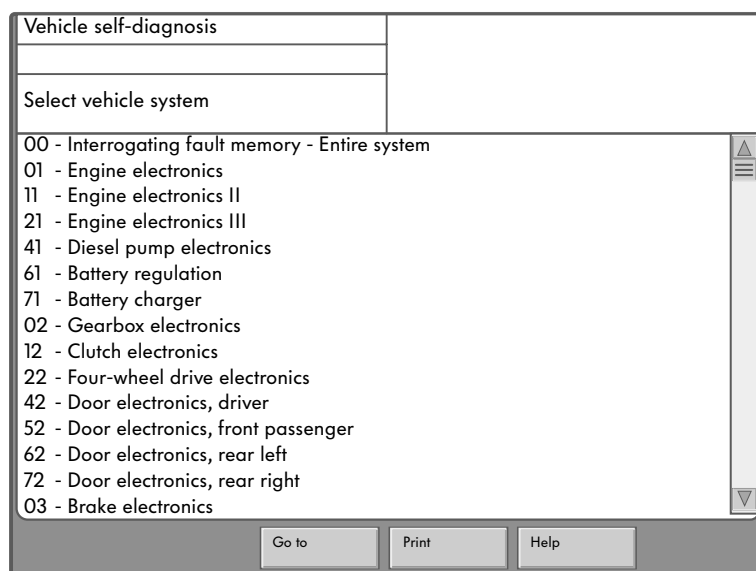
Two buttons positioned below this, perform the functions of the mouse buttons.

The top button corresponds to the left mouse button, and the bottom button to the right one.

Vehicle self-diagnosis

With the diagnostic cable connected and the ignition switched on (depending on the vehicle system), it is possible in this operating mode to communicate with the systems fitted to the vehicle.

This operating mode is started by clicking the button „Vehicle Self-Diagnosis“ in the start screen.



256_019

What appears is a listing of all the vehicle systems introduced and the user-specific extensions.

The consecutive list is subdivided by blank lines into

- vehicle systems
- OBD functions, and
- LT2 vehicle systems (light vans).

It is possible to scroll through the list with the selection bar at the right-hand side of the screen. The communication is established as soon as you have made your selection by touching on the particular entry.

The process is displayed in the left-hand information window by means of the text „Establishing communication“.

Communication is maintained until the diagnostic function „End output“ is selected or by pressing the button „Back“ in the navigation line.

After communication has been established, the control unit identification is read out and displayed constantly in the right-hand information window.

If subsystems also exist, these are displayed in the working window.



Operating Modes

00 - Interrogating fault memory

In this function, the fault memories relating to all the vehicle systems entered in the screen „Select vehicle system“, are read out one after the other (provided they are installed) and their contents are displayed together with a number of stored faults in the screen which follows.

LT2 vehicle systems

It is possible to make a selection from the vehicle systems of the light van.

In the case of the LT2 vehicle systems it is only possible to use the LT functions or the OBD functions. The LT diagnostic cable VAS 5051/4 is required.

33 - OBD function

The OBD functions are available for communication with the vehicle systems which support the OBD standard.

It is possible to select from OBD modes 1 to 9 in this screen.



Vehicle self-diagnosis	
33 - OBD	
Select diagnosis mode	
Mode 1 : Read measured values Mode 2: Read operating conditions Mode 3: Interrogate fault memory Mode 4: Reset/delete diagnosis data Mode 5: Read Lambda test results Mode 6: Read test results of components not continuously monitored Mode 7: Read test results of continuously monitored components Mode 8: Check tank for leakage Mode 9: Vehicle information	

256_020

Diagnostic functions for vehicle systems

After communication with the control unit has been started by making a selection in the screen „Select vehicle system“, the subsequent screen then appears.

A selection of the diagnostic functions (repair orders) matching the vehicle appears on the left of the screen while the control unit identification read from the vehicle system, is shown at the top right in the information window. The functions offered depend on the vehicle system.

In the screen displayed, all the diagnostic functions are shown as a standard feature.

If a function is not available in connection with a particular vehicle system, the tester answers in the left information window with the message: „Function unknown or cannot be carried out at the moment“.



Vehicle self-diagnosis	01 - Engine electronics 028906021EG 1.9l R4 EDC 00SG 0819 Coding 2 Workshop code 5314
Select diagnostic function	
02 - Interrogate fault memory 03 - Final control diagnosis 04 - Basic settings 05 - Erase fault memory 15 - Readiness code 06 - End output 07 - Code control unit 08 - Read measured value block 09 - Read single measured value 10 - Adaptation 11 - Login procedure Update programming	
<div>◀Go toPrintHelp</div>	

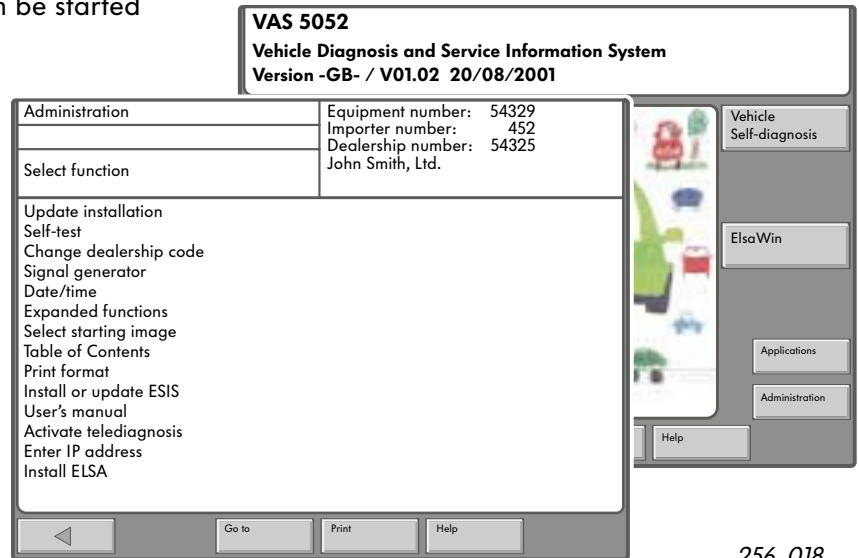
256_021

Operating Modes

Administration

The individual operating modes can be started from the start screen:

- Vehicle self-diagnosis
- Applications
- Administration
- Print
- Help



256_018

After the tester has been started for the first time, it is possible to set the diagnostic system in the operating mode „Administration/Select function“ - as you are familiar with from VAS 5051.

The „Install update“ function makes it possible to load more recent programme versions from the CD to the hard disc.

At the same time the specific language is set in the system by the CD-ROM.

The new version status is shown in the start screen.

The „Self-test“ function performs an internal check of the EDIC (Electronic Diagnostic Interface Computer) diagnostic bus interface card. The diagnostic cable should be disconnected for this step. For the remaining parts of the self-test, the diagnostic cable should be plugged in again - with a special test adapter provided. The diagnostic cable is tested for short circuits and open circuits in the wiring.

„Change dealership identification“ makes it possible to enter a different name or address of the company.

„Signal generator“ - For certain operating processes an audible signal is generated, the duration and volume of which can be set here.

„Date/Time“ - Date and time can be displayed here. After completing the entry, it is then only possible to change the time. Hours and minutes can be set independently of each other. There are two buttons available which can be selected separately. The time is changed accordingly by pressing on the side direction arrows.



The date can only be changed after re-installation of a base CD. After confirming the entry with the „Accept“ button, it is no longer possible to address the date setting. The button is no longer shown.

„Expanded functions“ are not required in normal workshop operation.

They are available only to a selected group of users and are activated by means of the so-called code CDs.

„Select start graphic“ - Different start images are part of the base CD data.

The user is able to select an image from these. This image is then displayed in the start screen.

„CD contents list“ - The CD contents file is part of the base CD data. This function can be used to display the contents list of the base CD installed.

„Print format“ - Here you can select one of the formats - either 4 or US Letter - for the next log printout or screen extract.

„Install or Update ESIS“ - This function can be used to optionally install the „Electronic Service Information System“.

This is used only in the US market.

The ESIS CD set is not part of the scope of supply.

„User Manual“ - When this function is selected, the Adobe Acrobat Reader displays the PDF document „Manual.pdf“ in a separate screen. (The base CD should not be inserted for this step.)

The screen consists of a large display field (including slide control), four buttons arranged vertically at the right-hand margin for operating the „Zoom“, „Original size“, „Back“, „Forward“ functions and also the navigation line at the bottom margin of the screen.

The „Back“, „Go to“, „Print“ and „Help“ buttons are positioned on this line.

Display of the PDF document is integrated in the user interface of VAS 5052.

„Activate telediagnosis“ - This function is provided for activating the telediagnosis. After being selected, the display changes to „Deactivate telediagnosis“.

„Enter IP address“ makes it possible to enter the IP address assigned to the tester.

„Install ELSA“ - This function is used for installing the „Electronic Service Information System - ELSA“.

The ELSA CD set is not part of the scope of supply.



Operating Modes

Applications

This operating mode provides applications, the programmes and data of which are made available either by a CD which is inserted, or by the hard disc (previously installed CD), for example:

- Starting application from CD-ROM
(Separate information is available on this as required.)
- Service Training

After the „Applications“ mode has been started, the selection list of the available applications is then displayed.

Service Training

Suitable training applications can be played from the CD in this application. The image information is shown on the screen.

The relevant sound can be heard at the audio output by connecting headphones or active speakers (not included in scope of supply).

The following functions are available:

- Title display and selection
- Start



Applications	
Select application	
Start application from CD ROM	
Service Training	

Applications	
Service Training	
Vehicle electronics 3	



A CD inserted, is started by means of the Service Training list display.

If this entry is selected, the VAS 5052 performs a search of the CD inserted, and displays the title.

The relevant application is started by selecting a list element.

After an application has been started, the sequence control no longer has any check over the sequence. The sequence system does not return to the selection screen until after the application has been completed or ended.

A virtual keypad is available for entering the user data. The keypad can be moved into any corner of the screen using the keypad icons and closed again.

The remaining operation is performed by touching the selection elements or by using the integrated mouse function.

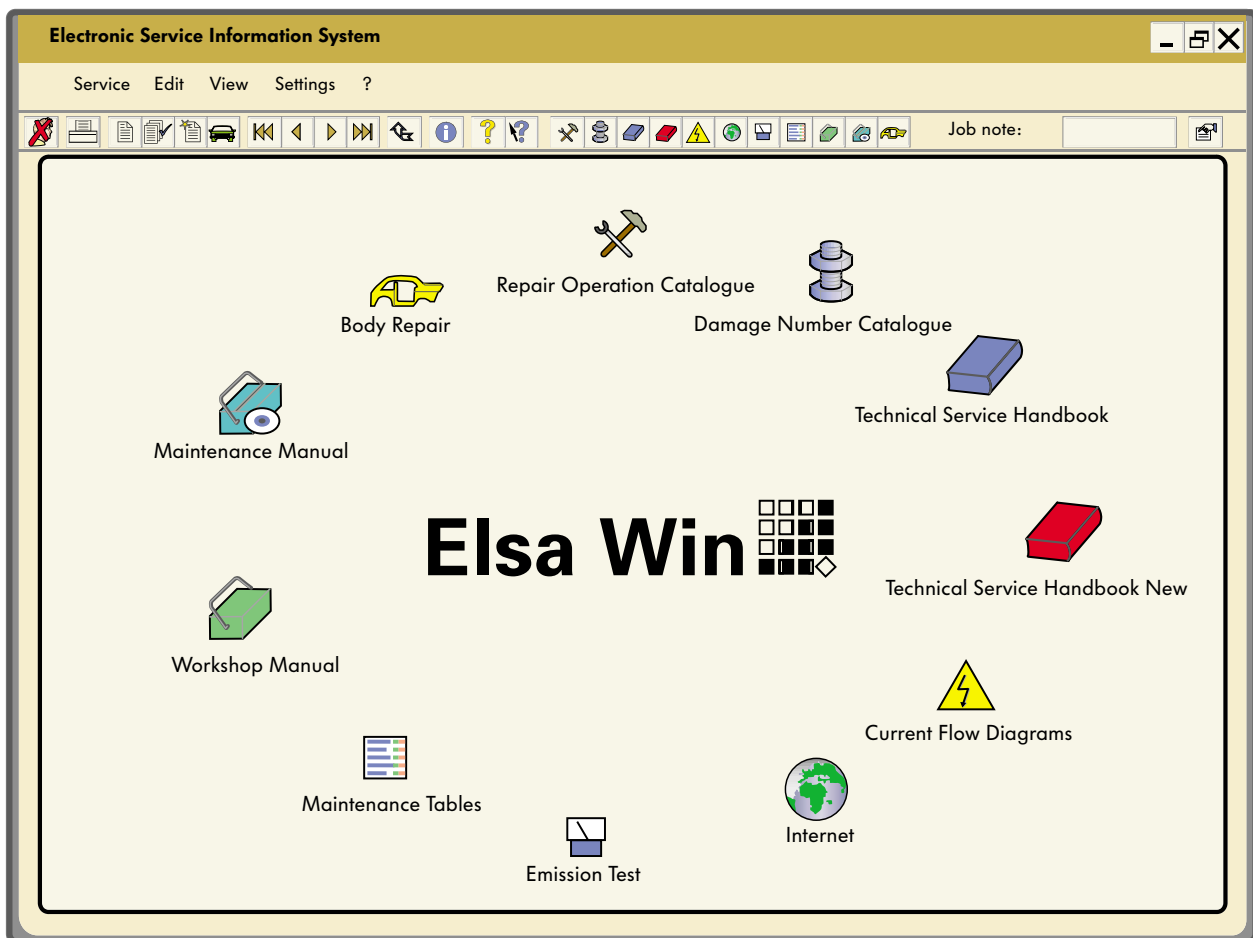



Operating Modes

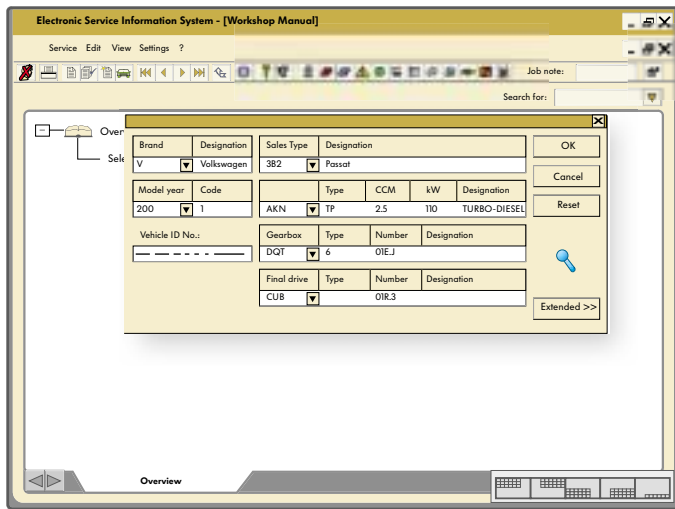
ELSA (Electronic Service Information System)

After selecting ELSA, an opening screen appears with the following icons:

- Repair Operation Catalogue
- Damage Number Catalogue
- Technical Service Handbook
- Technical Service Handbook New
- Current Flow Diagrams
- Internet
- Emission Test
- Maintenance Tables
- Workshop Manual
- Maintenance Manual
- Body Repair



256_023

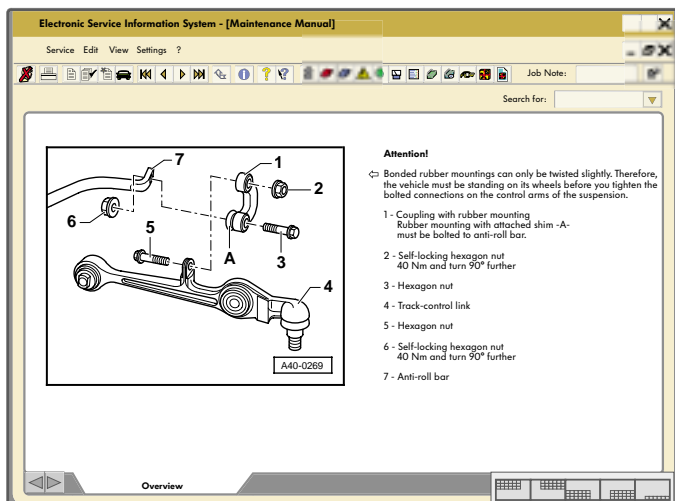
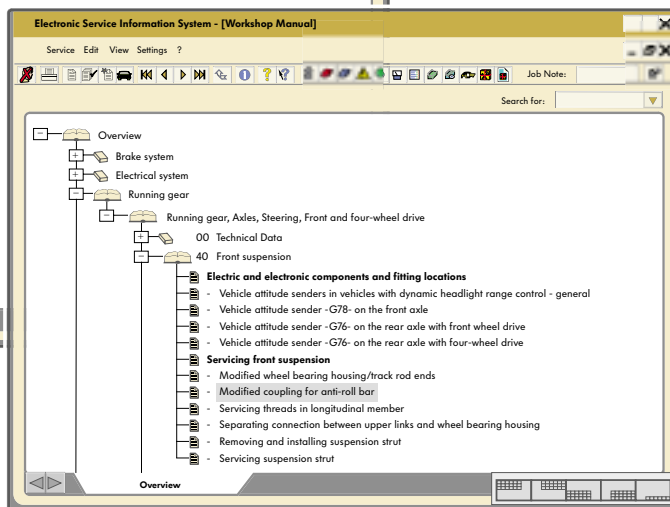
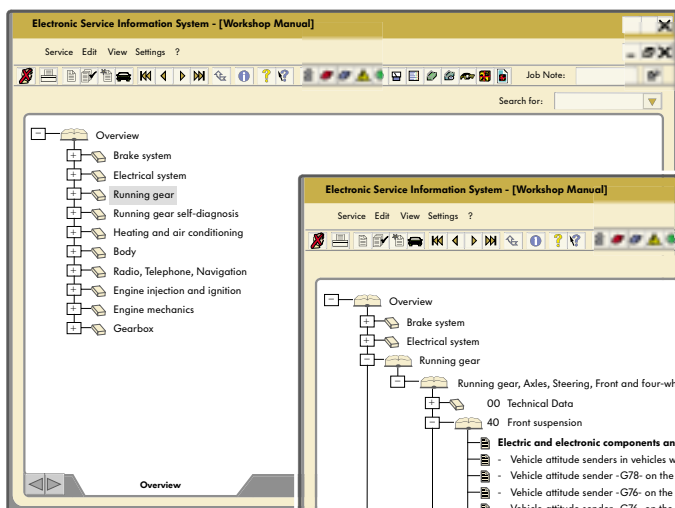


Example:

After selecting the icon „Workshop Manual“ a screen appears for the „Vehicle Identification“ which then has to be completed.

After entering „OK“ to confirm the identification, a list of the „Assemblies“ which can be selected for this vehicle, then appears.

If you then navigate further in the screens displayed, you can then move via the „Repair Groups“ to the „Repair Processes“ with the work instructions, and installation illustrations and drawings.



VAS 5052 together with the ELSA software can be used in combination with a server as a client-server version, or by installing on the hard disc of the equipment.

This demonstrates the attributes of the VAS 5052. All the information is available on the screen of the tester (when used as work bag) directly at the vehicle.

Operating Modes

Help

Here you can display operating information and explanations of functions relating to a particular context or of a general nature.



„Help“ is not a substitute for the User Manual! It can, however, assist you in the workshop if there are any unclear questions regarding how to use the screens and the buttons.

The Help functions are divided into two groups:

- Subjects
- Buttons

The „Help“ button appears in every screen and always at the same point in the navigation line.

This operating mode is active as soon as the „Help“ button is shown „pressed“.

In order to quit this operating mode, you press once again on the „Help“ button.

Print

The Print function is selected by pressing on the „Print“ button in the navigation line. The Print functions available are shown in the selection list.

The data which you wish to print are transmitted via an IrDA interface (infrared data transfer).

It is possible to print out the contents file of the base CD with up-to-date information in the „Administration“ mode.

The following Print functions are available in the „Vehicle self-diagnosis“ mode:

- Store results
- Self-diagnosis log
- Output medium (printer or disc, the output medium disc is intended for future applications)
- Enter licence plate/vehicle identification number (for display in self-diagnosis log)

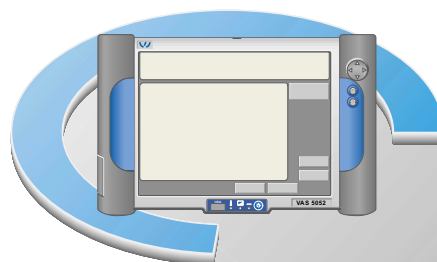


It is possible to print out a screen extract in all operating modes.

A further attribute of VAS 5052, in addition to its use as a stand-alone version in the workshop, is that it can be linked via a server to the office, the parts store, reception ... in the client-server version (software basis is the VAUDIS-VW Audi Information System).

The illustration below shows how the VAS 5052 is linked to the office and to other processors.

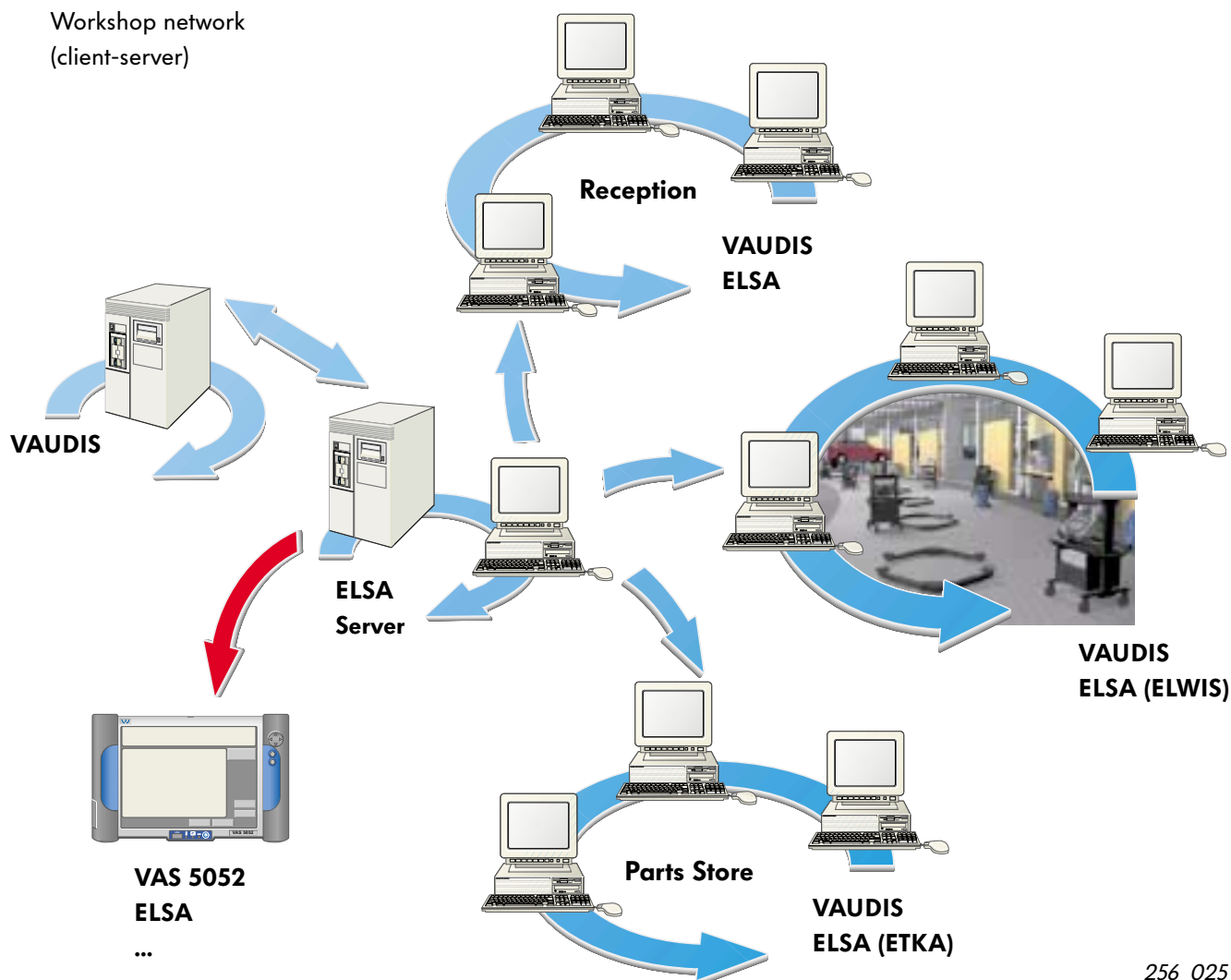
Stand-alone unit



256_029

**VAS 5052
ELSA**

Workshop network
(client-server)



256_025

Notes



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140.2810.75.20 Corresponds to technical state 09/01

✿ This paper was produced from chlorine-free chemical pulp.