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INTRODUCING VIDA HELP, VIDA ALL-IN-ONE

VIDA Help gives a summary description of the VIDA All-in-one application. It also covers instructions on how to carry out different tasks in VIDA All-in-one.

These instructions do not contain help for VIDA on Web and VIDA Admin. Help for VIDA on Web is available in the instructions VIDA Help for VIDA on Web. Help for VIDA Admin is available in the instructions VIDA Admin Help.

VIDA Help is divided into two sections, a general part and a type case part. The type cases are described in a recommended work flow, step by step. However, not all selection possibilities and alternatives in VIDA are described. Furthermore, Help does not contain a complete description of all fields and functions in all windows.

VIDA Help is used as support when carrying out repairs or ordering parts. VIDA Help is based on the user having basic computer knowledge.

All VIDA instructions can be obtained from:

- Sales company’s dealer site (applies to dealers)
- VIDA support site (VIDA ISS), the address can be found in the welcome letter with the user ID and password (applies to independent workshops).

1.1 Using VIDA Help

VIDA Help can be used for two purposes, both as an introduction to VIDA All-in-one and as support in the daily work using VIDA All-in-one.

TIE (Technical Information Exchange) is a system that is mentioned several times throughout this document. TIE is a Volvo Cars system which, among other things, is used to report errors about VIDA or its information. As there are users who do not have access to TIE, applicable actions will be made clear for those users where TIE is specified. For more information about TIE, see chapter 3.7 TIE on page 15.

In this document there are also a number of references to DMS (Dealer Management System) to show a connection to such a system. Within the document the Swedish system TACDIS is used as an example of the connection. For more information about DMS, see chapter 3.9 DMS on page 16.

1.2 List of abbreviations

VIDA Help contains lists with different types of abbreviations. The lists are split according to the area of use:

- Abbreviations contain explanations of abbreviations used in VIDA.
- Units describe the units that are used in VIDA. Calculation formulas for the units that are not included in the metric system are also found here.
- PS Code describes the codes that are used when ordering parts.
- Country designation describes the country codes used in the parts catalog.
2 SUBSCRIBING TO VIDA

The subscription controls the functionality in VIDA. The subscription is specific to both users and computers. A subscription has a status, i.e. it is activated or deactivated.

A subscription consists of a collection of packages that define content and functionality. For example, the spare parts package provides spare parts documents and the parts functionality in the WORK LIST tab.

A subscription is always purchased as a specified number of licenses. When subscribing to VIDA All-in-one, the number of licenses indicates how many computers with VIDA All-in-one installed that can be used simultaneously. When subscribing to VIDA on Web, the number of licenses indicate how many users can be connected to the subscription (one user at a time can be logged in).

A customer in VIDA is a place of business, e.g. a workshop. Every workshop is one customer.

A Sales Company is responsible for one or several countries. Sales companies operate as support for VIDA.

Each company has a local VIDA Administrator.

VIDA Admin is a central system where information about customers, users and subscriptions is managed and stored. VIDA Admin is only used by the VIDA Administrator.

The version of VIDA being used is displayed in the log in window. It is also displayed as part of the title together with the selected vehicle profile and language version after logging in.

VIDA on Web is a VIDA application that is accessed via a web browser over the Internet. VIDA on Web requires connection to the central data system. VIDA on Web does not have access to all functions. For each subscription, one user at a time can be logged in on VIDA on Web.

VIDA All-in-one is a complete VIDA application with access to all functions. VIDA All-in-one is installed locally on a customer's PC. VIDA All-in-one works with certain functionality without being connected to the central data system.

Connection to the central data system is required to download software (PIE), image details under Vehicle profile and for parts ordering (DMS). An order list for parts can be printed and saved. Errors can not be reported without connection to TIE and the technical journals can not be read without a connection to TIE.

2.1 Missing functionality

Functionality that is shaded gray in VIDA is not available. This may be due to several reasons:

- The subscription does not include the functionality.
- The car is not read out and the vehicle profile is not filled in.
- In the settings, the VIDA Administrator has deselected certain functionality or certain document types for the user.

If a function is missing, always check with the local VIDA Administrator before contacting support.

Subscriptions can be updated to include the missed functionality. When purchasing or modifying subscriptions, the dealer and the internal customers at the sales company must refer to the respective sales company.
2.2 eUpdate
VIDA eUpdate is an information and application update between the DVD releases. It is distributed via the web and installed on VIDA All-in-one automatically.

EUpdate is an update of parts information, Vehicle Communication Functionality, script and of the VIDA application.

2.2.1 eUpdate Procedure
VIDA check in the background for new eUpdates every second hour. They will be downloaded and preinstalled in the background ("Silent installation"). It is possible to use VIDA during downloading and the pre-installation of the eUpdate. It is also possible to schedule the pre-installation. This is an option for users that experience that the pre-installation affects the performance in a negative way. All available eUpdates will be downloaded and preinstalled in one package. The only downtime for the user is to apply the eUpdate after the pre-installation by restarting VIDA.

eUpdate program is in status "idle", when the installation icon is frozen.

![Fig. 1 Installation Icon](image)

A message will be shown when the pre-installation starts. The Icon will spin during the installation.

![Fig. 2 Pre-installation message](image)
By clicking the eUpdate icon you can follow the pre-installation.

![VIDA eUpdate](image)

**Fig. 3**

When the pre-installation is done, a dialog box will appear.

![VIDA eUpdate](image)

**Fig. 4 Dialog box**

If "Later" is chosen the dialog box will appear again in 15 minutes.
2.2.2 Set preferred installation hour for eUpdates
The preferred time of day for starting the eUpdate can be set in VIDA Configuration.

![VIDA Configuration](image)

Fig. 5  VIDA Configuration

When a new eUpdate is scheduled a message containing the eUpdate installation start time will appear.

![VIDA eUpdate](image)

Fig. 6  Message containing eUpdate installation start time

NOTE
Keep the computer turned on at the scheduled installation time for making the eUpdate possible.

2.2.3 Rollback/uninstall
If an update requires being uninstalled, a message will be sent out informing of this. Use All Programs → VIDA eUpdate Rollback to uninstall the eUpdate. During the last step of rollback, the system updates the VIDA central system (VOCCS) with the status for VIDA All-in-one. After uninstalling, the system shows the current active version of VIDA on the VIDA start window.
3  WORKING WITH VIDA

3.1  Logging in
Logging in to VIDA is carried out through a Volvo Cars Corporation security system.

3.1.1  Navigation
Always use the tabs to navigate in VIDA. Note that the web browser's navigation buttons (back arrow and forward arrow) can give unwanted results.

3.1.2  Selecting language in VIDA
The language for the user can be selected in VIDA Admin. This is dependent on other languages being available. The user can not select another language in VIDA than the one decided by VIDA Admin.

3.2  IsoView
IsoView is a plug-in that is required to show images in VIDA. It is used to improve the quality of the images.

3.3  Logging in VIDA
VIDA All-in-one creates logs that can be used for different purposes, including error reporting. The most important log files are described in the VIDA Logging document.

3.4  Printout
Almost everywhere in VIDA you will find the PRINT button accessible. A printout from VIDA is formatted. Among other things, you will find the printout date on the printout. Information and layout is formatted so that it fits the print format. The printout deviates slightly from what is shown on the screen.

3.5  VIDA Release News
Messages about new, modified or deleted information in VIDA, as well as information about the installation, is distributed to dealers via VIDA Release News. VIDA Release News, in all VIDA languages, is distributed as follows:

- in electronic format, via Service Product Journal (SPJ) in TIE
- via Dealer Development Portal (applies to dealers)
  http://ddp.volvocars.com
- via VIDA ISS support site (applies to independent workshops)
  http://vccs.volvocars.se/vida
- via sales company sites that are aimed at dealerships.

3.6  Vehicle communication tool
VIDA communicates with vehicles using vehicle communication tools. VIDA can retrieve information from the vehicle via these tools.
Following vehicle communication tools are supported by VIDA:

- **DiCE** (Diagnostic Communication Equipment) is the latest equipment used to communicate with the vehicle's control module and to download software from VIDA to the vehicle. It is used for all Volvo models from and including model year 1999. DiCE transfers the messages from VIDA to the control module in the vehicle. It can also be used to read out and erase DTCs (diagnostic trouble codes) and other diagnostic services in the various control systems. The DiCE unit communicates via USB or Bluetooth, which also provides the user with a high flexibility.

- Vehicle communication is based on J2534. J2534 is an interface common to all vehicles for reprogramming control modules that can be connected to many vehicles. There are two different versions of J2534.
  - **J2534-1** can be used to download software to vehicles from, and including, model year 2004. J2534-1 manages software to control modules on CAN HS (controller area network high speed) that are emission related. J2534-1 cannot be used for diagnostics.
  - **J2534-2** manages software download to control modules on both CAN HS (controller area network high speed) and CAN MS (controller area network middle speed).

  The hardware used to validate VIDA's compliance with J2534 can be purchased separately from third-party suppliers. The validation was done using the following J2534 pass-thru devices:
  - J2534-1: Actia Passthru+ XS and CarDAQ2534
  - J2534-2: CarDAQ Plus

- For model years up to and including 1998, VST (Volvo System Tester also known as Volvo Scan Tool) is used instead of DiCE to read off diagnostic trouble codes. After reading off diagnostic trouble codes with VST, the diagnostic trouble codes must be searched under the tab **INFORMATION**.

**NOTE**

Do not connect VST to a PC, always use DiCE.

**VCT2000**

VCT2000 (Vehicle Communication Tool 2000) is the communication device used before DiCE was introduced. It is no longer possible to perform diagnostics or software download with VCT2000.

### 3.6.1 Testing communication tool

When working with VIDA vehicle communication, a request to test the communication tool is displayed. To carry out the test, click **RUN**. Different tests are carried out depending on which vehicles are connected.

Individual test can be selected under the **SOFTWARE** tab. Click the **ADVANCED** link and then **RUN**. The communication tool can also be tested on the **VEHICLE PROFILE** tab. Click the arrow to the right of the Communication tool drop-down list.

When the test is complete, the result is displayed in a dialog box.
3.6.2 Update DiCE

The communication tool DiCE may require updating with new software (also called Firmware). The update is performed via VIDA All-in-one. The DiCE unit must be connected to a 12 V supply and USB cable. Go to VEHICLE PROFILE tab. Select the DiCE to update in the Communication tool drop-down list. Click on DICE UPDATE. The firmware Update window opens.

Fig. 7 Update DiCE
The first time DiCE is updated, the correct file needs to be selected in the Firmware Update window: C:\Program Files\DiCE\Tools\DiCE_x_x.mot. Click UPDATE. Updating takes approximately one minute. A dialog with the following question may appear: “The new firmware is the same as the current version. Continue with firmware download anyway?”. Click YES. Close the Firmware Update application tool by clicking CLOSE. For further information see DiCE installation instructions.

Fig. 8  DiCE Firmware Update
3.6.3 DICE status LEDs

DiCE has four status LEDs that indicate:

1. Firmware Status
2. USB Communication Status
3. Bluetooth Communication Status
4. Vehicle Interface Status

For more information, see the document *DiCE Installation Instruction*.

3.7 TIE

TIE stands for Technical Information Exchange. The system is used by certain VCC dealers for reporting errors and distributing information. Whether or not the user has access to the TIE system depends on which marketing company the user belongs to. VIDA is adapted depending on the user's access to the system. For users who do not have access to TIE, buttons and links to TIE are not visible in VIDA.

VIDA Admin must be updated with the user's ID for a user to have contact with TIE. TIE is displayed in a separate window. No login required since Web Single Login has been implemented.

3.8 PIE

PIE stands for Product Information Exchange. PIE is a VCC system for managing the software packaging for vehicles. When a PIE user orders software, PIE is contacted in order to validate the order. Thereafter the order is packaged with the software required for the selected vehicle. The order is then electronically sent to VIDA for vehicle download.
3.9 DMS
DMS stands for Dealer Management System. A DMS can be connected to VIDA, and makes it possible to retrieve prices and stock status. For users who do not have access to a DMS system these functions are not visible in VIDA.

In order to connect a DMS to VIDA, the system of the DMS supplier must be compatible with VIDA.

3.10 VIDA information structure
The information structure in VIDA is built on function groups.

Function groups in VIDA:
- 0. Administration - General information
- 1. Standard components, service materials and consumables
- 2. Engine with mounting and equipment
- 3. Electrical system
- 4. Power transfer
- 5. Brakes
- 6. Suspension and steering
- 7. Springs, shock absorbers and wheels
- 8. Body and interior

3.11 Support
If there is an issue with VIDA, help must be obtained in the following order:
1. VIDA Help documents. They are available on:
   - Dealer Development Portal (applies to dealers)
     http://ddp.volvocars.com
   - VIDA support site (applies to independent workshops)
     http://vccs.volvocars.se/vida.
2. Local VIDA Administrator
3. Support at local sales companies

3.12 Reporting errors in VIDA
If the text or images in VIDA is incorrect or if something does not function correctly, this must be reported via the support function in VIDA.

1. Press the [F12] key when the window containing the incorrect text or picture is shown. A window with information about the VIDA text is shown.
2. The text in the window can be copied into a report document. Attach the document in an error report in TIE or in an e-mail to the sales company support.
3. Copy a screen image and attach it to the report or e-mail. To copy the screen image press [PRINT SCREEN] on the keyboard and for example open a Word document and select PASTE. Attach the document in the report.
INTRODUCTION TO MAIN FUNCTIONS IN VIDA

There are 7 navigation tabs in VIDA. For information about the navigation tabs, see chapter 5 VIDA navigation tabs on page 22.

There are five links in the upper part of VIDA:

- TECHNICAL JOURNALS - opens TIE in a separate window, with the relevant vehicle profile as criteria for which journals are displayed. This is only relevant to users with a TIE connection.
- REPORT TO TIE - opens TIE in a separate window. This is only relevant to users with a TIE connection. If the user doesn't have access to TIE the button REPORT TO TIE will be named REPORT ERROR.
- VEHICLE DETAILS - give more information about the vehicle if the VIN number is known.
- HELP - opens VIDA Help in a separate window as a PDF file.
- LOG OUT - leads to the log-in page at the same time as the user is logged out.

4.1 Connections between TIE and VIDA

TIE is connected to VIDA through the links TECHNICAL JOURNALS and REPORT TO TIE.

For information about TIE see chapter 3.7 TIE on page 15 and the document Quick Guide to TIE 4.0.

NOTE

If the user doesn't have access to TIE the link REPORT TO TIE will be named REPORT ERROR and the only option will be Report via e-mail. The report should in such case be sent to the support.

4.1.1 REPORT ERRORS in TIE

Errors must be reported to TIE (accessed by clicking on the REPORT TO TIE link). The user decides how the error is going to be reported.

Regardless which method is selected, a log file can be attached by clicking on SELECT LOG FILES.

The following methods are available to send an error report:

- TIE report
- E-mail.

VIDA automatically attaches information about user name, vehicle profile and information about what the user was working on at the time of the report.
Follow these steps to create a TIE report from VIDA:

1. Click the Report button in VIDA.
   - VIDA calls on TIE to get a list of allowed Concern Areas for this user.
     - TIE sends back the list and informs VIDA which log files are needed.
     - VIDA shows the user which Concern Areas are available.
   - Choose a Concern Area.
     - VIDA automatically finds the relevant information and log files and creates a compressed folder that is sent to TIE.
     - VIDA calls on TIE. TIE opens up. (No login required since Web Single Login has been implemented).
     - TIE asks the user for Sub Concern Area (if needed).
   - Choose a Sub Concern Area (if needed).
     - TIE opens the report template.
       - The required log files are automatically attached.
       - The information that VIDA sent is input in the correct fields.
   - The user can start to write the report.

Since this method makes writing reports much easier, this is the preferred way to report issues because:

- The user does not have to manually insert attachments or keep track which attachments are needed for which Sub Concern Areas.
- The user does not have to insert vehicle details in the report, these fields are completed automatically by VIDA.

4.1.2 Searching Technical Journals from VIDA

The easiest way to find relevant Technical Journals for a vehicle, is to start the search in VIDA. Depending on how the search is started, VIDA will send different information to TIE, which influences the search result. Please find step by step instructions in the following sections.

**Basic search**

1. Specify the vehicle under the Vehicle Profile tab. The more information that is put in, the more targeted the search will be.
2. Click Technical Journals in the top left corner to start the search.
   - TIE is opened in a new window and the search is performed.
     - TIE shows a list of all Technical Journals that are relevant for the current vehicle profile. The journals are listed in function group order.
3. Relevant Technical Journals can be read.

**CSC search**

If CSC are specified for the vehicle when a basic search is performed, TIE will use the specified CSC to further target the search. Technical Journals related to the specific CSC for the profiled vehicle will be shown.
Function Group search
If the basic search is performed under the Information tab in VIDA with an open document which is connected to a function group, the search results starting with that function group are shown. Technical Journals with lower function groups are not shown.

DTC search
If the search is started from the Diagnostics tab and a Fault Trace has been performed on the vehicle, TIE will use the specified DTCs to further target the search. Technical Journals related to the specific DTCs for the connected vehicle will be shown.

4.2 Vehicle Details
The information regarding Vehicle Details is available through a link in the top left hand corner. Vehicle Details can be accessed from all tabs in VIDA.

Vehicle Details gives workshops access to more information about Volvo vehicles. For newer models it is possible to perform pre-planning without having access to the vehicle in the workshop.
To view the Vehicle Details, click the **Vehicle Details** link in the top left hand corner. A pop-up appears:

![Vehicle Details pop-up](image)

**Fig. 9  Vehicle Details pop-up**

**NOTE**
For users with a DMS connection, the Vehicle Details pop-up is minimized on the taskbar.
Underneath the Vehicle Details there are three links:

- **Hardware and Software** - Information about the vehicle’s control modules and their software. For each control module the module’s hardware part number and serial number as well as software part number are listed. The data is gathered from central systems and is the latest confirmed version.

- **Variant Attributes** - The total description of the vehicle. This data was used in the factory to build the vehicle. The data consists of a Variant Designation Number (VDN), Description and value, and it is gathered from central systems. It has the following properties:
  - Data is only available in English (although some information might be in Swedish)
  - The same VDN might have a different description and values for different models
  - The same part will have different VDNs, descriptions and values depending on which model it belongs to
  - There might be spelling errors in the data.

- **Options** - Options that were fitted at production. Please note that options might be fitted after production and these options will not be listed here.

By clicking any of these, a list of details is expanded below the links. The lists expand in the same order as the links, i.e. even if Hardware and software is clicked after Variant Attributes, the detailed list of Hardware and software appears above the list of Variant Attributes.

**Filter check box**

In the top left-hand corner there is a filter checkbox. The box is checked by default. When the filter is checked, the information is filtered in the Parts Catalog on Vehicle Color Code and Upholstery/Interior Code. All the extra information available in the pop-up is not used for filtering in e.g. the Parts Catalog. When the filter in the Vehicle Details is activated, this is also indicated by a checkmark next to the Vehicle Details link in the top left-hand corner, see image below:

![Image of Vehicle Details filter activated](image.png)

**Fig. 10 Vehicle Details filter is activated**

**NOTE**

Hardware and software information and Variant Attributes are not available for vehicles prior to model year 1998.

**How to use Vehicle Details**

Click [Ctrl] + [F] to search for information. Use a part of the name, e.g. search for "brake" when looking for brake discs. Remember that the first hit might not be the brake disc so press [Find Next] a few times to find all entries which contain the word "brake". If there are no search results, try searching for a synonym. Remember that all information is only given in English.
5 VIDA NAVIGATION TABS

There are 7 navigation tabs in VIDA:

- START
- VEHICLE PROFILE
- INFORMATION
- WORK LIST
- DIAGNOSTICS
- SOFTWARE
- SEARCH

The INFORMATION and DIAGNOSTICS tabs are only available if the user has defined a vehicle profile. These will be disabled and cannot be used without Vehicle profile, see chapter 2.1 Missing functionality on page 7.

The user can move freely between the different tabs, from one part of VIDA to another. VIDA remembers what the user viewed last. The tabs "reset" when the vehicle profile is modified.

If the user chooses to open a document whilst working, it will open under the tab INFORMATION. You can return to the original tab by clicking on the tab or clicking the back button in the information.

5.1 The START tab

The START tab is the first page displayed in VIDA when logging in to the system.

Fig. 11 The START tab
The START tab contains:

- Link to TIE to read VIDA Release News (for those with access to TIE). VIDA Release News can otherwise be found on:
  - Dealer Development Portal (applies to dealers)
    http://ddp.volvocars.com
  - VIDA support site (applies to independent workshops)
    http://vccs.volvocars.se/vida.
- Short-cut to the VEHICLE PROFILE tab.
- Link to PERFORM COMPUTER SETTINGS - dialog with local system settings.
- Links to the conditions text and information about copyright.

5.1.1 PERFORM COMPUTER SETTINGS

The dialog PERFORM COMPUTER SETTINGS manages the subscription, length and deregistering of the client and automatic DMS connections.

Time limited subscription

The length of time until the subscription expires is displayed in the PERFORM COMPUTER SETTINGS window. A time limited subscription must be renewed at the latest the same day that it expires. It cannot be renewed if it has expired. A time limited subscription can not be canceled by the customer. Any breaks in the subscriptions are managed in agreement with the sales company.

Continuous subscription

The length of time until the subscription expires is displayed in the PERFORM COMPUTER SETTINGS window. The time also counts down on a continuous subscription, but the subscription is automatically renewed annually.

5.1.1.1 Deregister local client

When a computer is no longer used for VIDA All-in-one it can be deregistered. A deregistering can be temporary or permanent. Deregistering also means that a license becomes free for another computer.

At deregistering, the local information about the subscription is deleted and information about the computer will be deleted in VIDA Admin. Please note that the VIDA application will remain, it must be uninstalled separately.
All subscriptions where the relevant VIDA All-in-one is included will be affected by removing VIDA All-in-one.

When the deregistering is complete, the user logs out. The VIDA Administrator can confirm that VIDA All-in-one is deregistered in VIDA Admin. If VIDA All-in-one restarts, the machine will be registered again.

If VIDA All-in-one cannot establish contact with VIDA Admin at deregistering, an error message is shown and VIDA All-in-one remains registered.

Support can deregister VIDA All-in-one, even if the computer or connection to VIDA Admin does not work. Contact your support and ask them to deregister VIDA All-in-one in VIDA Admin.

5.1.1.2 VIN decoding

VIN is an abbreviation of Vehicle Identification Number.

VIN decoding off can be used to manually override the selections made by the VIN decoding functionality in VIDA. The default selection for VIN decoding is On.

NOTE

This option should only be used when you are absolutely sure that your new selections will work when communicating with the vehicle.

When a new VIN is manually entered, or when the Read vehicle button is pressed, the VIN decoding selection will be reset to the default value On.

When VIN decoding should be used to overcome communication issues, an SPJ will be sent out with precise step-by-step instructions that are specific to each issue.

VIN decoding off

Below is an example of the dialog box in VIDA, as well as some scenarios where VIN decoding off can be utilized.

---

Fig. 13 VIN decoding dialog boxes
Scenario 1
Assume that it is not possible to perform a specific diagnostic operation on XC90 model year 2008 due to the fact that a diagnostic function/script that should be available for that vehicle is not available (profiled) for that vehicle. The script for model year 2007 may be available and it might use the same diagnostic protocol as model year 2008. Use the following procedure:

1. Read VIN (XC90 model year 2008).
2. Set VIN decoding to off.
4. Find the diagnostic function/script for model year 2007 and continue with the diagnosis.

Scenario 2
Assume that VIDA can not decode the VIN correctly. (Error message that can be displayed: Invalid VIN: Check VIN and try again.) Use the following procedure:

1. Set VIN decoding to off.
2. Manually correct the vehicle profile.

5.1.2 Selecting subscription
A user may have several subscriptions. The user selects which subscription he wants to use immediately after log-in. To change subscription, the user must log out and then log in again.

5.2 The VEHICLE PROFILE tab

The following could be found under the VEHICLE PROFILE tab:
- Communication tool - all communication tools that are installed on the VIDA client are listed in this drop-down list. For information about vehicle communication tool, see chapter 3.6 Vehicle communication tool on page 11.

- READ VEHICLE - the vehicle will be connected to VIDA via the selected communication tool when READ VEHICLE is performed. The vehicle's identity and, e.g., diagnostic trouble codes can be read. For information about selecting communication tools, see chapter 6.1 Select a Communication tool on page 61.

- RETRIEVE FROM TACDIS - this button is called RETRIEVE FROM + DMS the system's name. The button is only available if the user has access to a DMS system.

- Menus for manual setting of vehicle profiles
  - Model
  - Year
  - Partner Group
  - Engine
  - Transmission
  - Steering
  - Body version
  - Special vehicles

- OK – to finish manual setting of vehicle profile

- LATEST IDENTIFIED VEHICLES - select one of the latest identified vehicles to determine a new vehicle profile

- CLEAR VEHICLE PROFILE - selected vehicle profile is reset

There are several ways to select vehicle profile in VIDA:

- Read out VIN directly from the vehicle
- Enter VIN (Vehicle Identification Number) manually
- Set a vehicle profile manually using the drop-down menus.

VIDA has communication with other IT-systems which makes it possible to access additional information about the vehicle. Based on VIN, these systems can deliver information about:

- Model
- Year
- Chassis number
- Engine
- Transmission
- Steering
- Chassis
- Upholstery/Interior Code
- Vehicle Color Code
- Chassis Code
- Springs
● Shock Absorbers
● Stabilizer Bars
● Support Springs

For more information about IT-systems that communicate with VIDA, see chapter 3.7 TIE on page 15.

If a DMS has been connected to VIDA, certain information can be retrieved by using the vehicle’s registration number. This is useful if VIN is unknown or if it is not possible to communicate with the vehicle via vehicle communication. For more information about DMS, see chapter 3.9 DMS on page 16.

If the VIN is unknown the vehicle can also be identified by entering the chassis number, model and model year and click on VEHICLE DETAILS.

When the user has selected a Communication tool in the drop-down list and clicks READ VEHICLE on the vehicle profile page, the VIN (and only the VIN) is read. When the user enters the DIAGNOSTICS tab for the first time with a new VIN, the serial number and diagnostic trouble codes are read from all control units in the vehicle. This is the only automatic read out that occurs. If you enter once more with the same VIN, the previous read out is retrieved from a database and the user is asked if a new read out is required.

5.2.1 Working without vehicle profile
It is possible to work without defining a vehicle profile in some parts of VIDA. It is recommended to (at least) define model and year to reduce the amount of information that VIDA displays.

5.2.2 Include transmission at VIN read out
Many markets have transmission included in VIN. The exception to this is AME (USA, Canada, Mexico and Puerto Rico), 51 China and 43 Arabia. When Partner Group INT (International general) is entered into VIDA Admin, the transmission is decoded when a VIN is specified or when the vehicle is read.

When the vehicle’s VIN has been read or entered, the user must select INT, Arabia or China in VIDA if the vehicle’s VIN applies to 51 China or 43 Arabia.

Other markets that normally use Partner Group INT, should change to Partner group EUR/INT except Arabia and China, after the vehicle’s VIN has been read or entered, to keep the function to decode the transmission.

In the same way, markets that normally use Partner Group EUR (Volvo Cars Europe) or NOR (Volvo Cars Nordic Countries) temporarily change to Partner Group AME (Volvo Cars North America) in VIDA Admin when a vehicle specified for USA, Canada, Mexico or Puerto Rico is to have its VIN decoded.

5.2.3 VIDA Menu Pricing
VIDA Menu Pricing is a development of the VSTG program, Volvo Standard Time Guide. It is a tool to plan work in the workshop. Knowing how long each job takes and exactly what parts that are required for each job allows the workshop to be more efficient. VIDA Menu Pricing can be used to give the customer a fixed price for each job. The button is only available if the user has access to the VIDA Menu Pricing system.
5.2.4 CSC tab

The CSC tab is split according to:

- COMPONENT/FUNCTION
- FUNCTION GROUP

![Fig. 15 The Component/Function tab](image)

The tab COMPONENT/FUNCTION

1. The application shows the Component/Function tree as default and it is sorted by Component/Function and Symptom type.

2. Select one or several CSCs in the right view and click ADD TO LIST.

3. The system adds the CSCs to the WORK LIST.

![Fig. 16 The Function group tab](image)
The tab FUNCTION GROUP

1. Click on the tab FUNCTION GROUP.
2. The application shows the tree and it is sorted by Symptom Type, Function Group 1, Function Group 2 and Component/Function.
3. Select one or several CSCs in the right view and click ADD TO LIST.
4. The system adds the CSCs to the WORK LIST see chapter 5.4 The WORK LIST tab on page 32.

The first time the user visits the CSC tab the default view is shown, otherwise the last view will be shown, as long as the user has not made a search for a new vehicle.

If the user has made a search for a CSC and click to see more information, the user will see all CSCs related to that Component/Function.

If the user switch between the tab COMPONENT/FUNCTION and the tab FUNCTION GROUP the same level of CSC is shown.

Some CSCs have a link to information for symptom identification. The information can explain the vehicle's normal behavior or be support for verifying the symptom. These codes have a symbol for documents to the right in the symptom list.

5.3 The INFORMATION tab

The information in VIDA is divided into different information types. These are accessible through the drop down menus directly under the tabs. Different information is available depending on the user's subscription.

The information is structured into the following types under the INFORMATION tab:

- PARTS
  - Parts Catalog
  - Chemicals

- REPAIR
  - General Safety Information
  - General information
  - Component location
  - Service programs
  - Removal, replacement and installation
  - Overhaul instructions
  - Cleaning, Inspection and Adjustment
  - Installation instructions, accessories

- PRODUCT SPECIFICATION
  - Visual Identification
  - Design and Function
  - Specifications, electrical/electronic
  - Specifications, mechanical
  - Specifications, other
  - Mechanical schematics and diagrams
  - Gas, Vacuum and Fluids Schematics and Diagrams
• FAULT TRACING
  – General Diagnostics and Tests
  – Diagnostic Trouble Codes and Associated Procedures
  – Symptom-Related Diagnostic Procedures
  – Symptom verification
  – Wiring diagrams

• BULLETINS
  – General Information Bulletins
  – Manual Update Bulletins
  – Product Fix Bulletins
  – Service Campaign Bulletins
  – Emission Recall Campaign Bulletins
  – Safety Recall Campaign Bulletins
  – Goodwill policy program bulletin (US only)
  – Parts Bulletins
  – TB, Special tools
  – TB, General tools
  – TB, Personal hand tools
  – TB, Diagnostic tools
  – TB, Workshop equipment
  – TB, Available tools
  – TB, Body tools

• FORMS

When the user enters the tab INFORMATION, the information type Parts catalog is always default in the navigation tree. If Parts catalog is not included in the user's subscription, then Removal, replacement and installation is shown as default.

In VIDA, vehicle profile information is shown as a part of the title. Therefore, the user gets a good overview over the information available for each vehicle.
5.3.1 Navigation tree

When one of the information types, in the drop down menus, is chosen the navigation tree will be found at the left side of the window. The navigation tree is automatically hidden when the user selects to open a document. It is also hidden when the user has followed a link for example in the diagnostic flow or in search result.

The navigation tree can always be opened again by clicking the open icon at the top edge. Alternatively, the space bar can be used to open and close the navigation tree. The navigation tree can be widened by pulling at the right edge.

5.3.2 Buttons FORWARD and BACK

In the documents there are buttons with arrows, a forward double arrow and a back double arrow. These lead to the next document and back to the previous document, respectively, in the information structure.

5.3.3 Buttons in the diagnostics information

Under the tab FAULT TRACING certain diagnostic information flow is displayed. Within diagnostic information there are buttons that lead further or end the fault-tracing flow (for example YES, NO, CANCEL or CONTINUE).

5.3.4 Cross reference list exchange parts

In the parts information it is possible to search for exchange parts number based on the production number of the part. The production number is available in QW90. A cross reference list is placed under function group 9.
5.4 The WORK LIST tab

The WORK LIST tab is an important step to provide a single point of access to all pre-planning information in VIDA. It contains the user's work lists. A work list can consist of CSC:s and/or parts. If the user has access to VIDA Menu Pricing VSTG the work list can also contain operations. If the user has access to VIDA Menu Pricing with VSTG and GPSS it can also contain operations and packages. Several work lists can be created and saved under individual names. Users within a dealership can access each other's work lists. CSC:s, parts, operations and packages can be added to a work list using the WORK LIST search. CSC:s can also be added via the CSC tree, parts can be added from the Parts Catalog and packages can be added from VIDA Menu Pricing.

It is possible to import and export a list. When a list is exported it can be saved to any location with or without vehicle profile connected to it. An exported list can be sent to another user and opened in VIDA by importing it. It is also possible to print the list or convert it to an Excel file.

If a DMS is available a work order can be retrieved from the DMS. CSC:s from the retrieved work order are automatically added to the work list. Information about price, stock quantity and stock position for each part in the list can be retrieved from the DMS. A DMS connection enables access to customer details and vehicle history as well as transferal of the work list to the DMS.

Users with VIDA Menu Pricing will have access to QB handling functionality in the WORK LIST. If the active vehicle has any active L, A, R or S QB:s that have not been performed the user will be able to add the associated operations and packages to the work list.

5.4.1 Who will have access to what functionality?

Your VIDA subscription will determine what functionality will be active on the WORK LIST tab, see the table below:

<table>
<thead>
<tr>
<th></th>
<th>VIDA</th>
<th>Menu Pricing with VSTG</th>
<th>Menu Pricing with VSTG +GPSS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSC:</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Parts</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Operations</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Packages</td>
<td></td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>QB handling</td>
<td></td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

5.4.2 DMS

If a DMS is available, the parts or work list can get information about price, stock quantity and stock location for each element in the list. Lists can also be transferred to the DMS and add information to parts and work orders.

There are several versions of the DMS interface. To get access to all VIDA Work List functionality, the H interface has to be implemented.
The table shows the functions that are available for different DMS versions:

<table>
<thead>
<tr>
<th>Function</th>
<th>Available in DMS interface version G</th>
<th>Available in DMS interface version H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed price - VIDA Work List can show fixed prices from DMS.</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Show prices with/without V.A.T.</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Find dealer local operation numbers.</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Possibility to send vehicle profile data from VIDA to DMS.</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Transfer of comments on operations, packages, parts and CSCs to the DMS.</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>(Work list capability).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transfer of QB references to the DMS. (Work list capability).</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Access to vehicle history and customer information from the DMS. (Work list capability)</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Send Extended Vehicle Info attributes to DMS.</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

5.4.3 Using the WORK LIST tab

The following buttons and functions are found in the WORK LIST tab:

<table>
<thead>
<tr>
<th>Command</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHANGE WORK LIST</td>
<td>Enables you to switch to another open work list</td>
</tr>
<tr>
<td>SETTINGS</td>
<td>Enables you to change the work list settings.</td>
</tr>
<tr>
<td>SEARCH</td>
<td>Search for part, CSC or operation by the free search text field.</td>
</tr>
<tr>
<td>SAVE</td>
<td>Saves the active work list.</td>
</tr>
<tr>
<td>CLOSE</td>
<td>Closes the active work list.</td>
</tr>
<tr>
<td>PRINT</td>
<td>Creates a printable version of the active work list.</td>
</tr>
<tr>
<td>DELETE</td>
<td>Deletes selected items in the list. If no items are selected the list will be deleted.</td>
</tr>
<tr>
<td>RENAME</td>
<td>Opens a dialog box that enables you to rename the work list.</td>
</tr>
<tr>
<td>NEW</td>
<td>Opens a dialog box to create a new work list.</td>
</tr>
<tr>
<td>IMPORT</td>
<td>Opens a dialog box to retrieve a work list from a file.</td>
</tr>
<tr>
<td>Command</td>
<td>Explanation</td>
</tr>
<tr>
<td>------------------------</td>
<td>----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>EXPORT</td>
<td>Opens a dialog box to save an existing list as a file.</td>
</tr>
<tr>
<td></td>
<td>This can be done with or without relevant vehicle profile.</td>
</tr>
<tr>
<td>ADD SW</td>
<td>Adds selected software to the software manager.</td>
</tr>
<tr>
<td>ADD ALL SW</td>
<td>Adds all software in the work list to the software manager.</td>
</tr>
<tr>
<td>VEHICLE HISTORY</td>
<td>This is only available if a DMS is integrated.</td>
</tr>
<tr>
<td></td>
<td>Retrieves the history of the selected vehicle from the DMS.</td>
</tr>
<tr>
<td>CUSTOMER DETAILS</td>
<td>This is only available if a DMS is integrated.</td>
</tr>
<tr>
<td></td>
<td>Retrieves the customer details from the DMS.</td>
</tr>
<tr>
<td>CLAIM TYPES</td>
<td>Shows active claim types and claim type history for the selected vehicle.</td>
</tr>
<tr>
<td>RETRIEVE FROM DMS (Alt+R)</td>
<td>This is only available if a DMS is integrated.</td>
</tr>
<tr>
<td></td>
<td>Retrieves information about price, stock quantity and stock location for the parts in the active work list.</td>
</tr>
<tr>
<td>SEND LIST TO DMS (Alt+S)</td>
<td>This is only available if a DMS is integrated.</td>
</tr>
<tr>
<td></td>
<td>Opens a dialog with an option to create a part or work order with the work list's content, or update an existing part or work order.</td>
</tr>
<tr>
<td>LIST GROUPING</td>
<td>A drop down list that enables you to group the list by vehicle profile, type or by job no.</td>
</tr>
</tbody>
</table>

Fields that can be edited:
- Qty – Can be added and modified for all parts, operations or packages.
- Job no – Can be added and modified for all items.

5.4.4 Create a list
Two types of list can be created, parts lists or work lists. The list type can be changed, but some list elements will be deleted if a work list is being transformed into a parts list.
To create a new work or part list, go to the WORK LIST tab and click NEW.

In the pop up window, specify List type, List name and/or Order number.

Elements in a work list can be:

- Customer Symptom Codes (CSC)
- Parts
- Operations
- Packages.

The Search field in VIDA WORK LIST can be used to find CSC:s, parts, operations and packages. Use * as a wildcard if you want to search for a part of a number, word or text string.
5.4.4.1 Adding Quality Bulletin operations

If the active vehicle has any active L, A, R or S QB:s that have not been performed, the user will be prompted with a pop-up after clicking the WORK LIST tab where associated operations and packages can be added to the work list.

There will be four possible options when QBs are prompted:

- **OTHER CLAIM TYPES** - show other active claim types and the history of the car's claim types.
- **POSTPONE** - if you do not want to add any QBs to the list you choose this selection. Then QB will not prompt any more.
- **ADD** - if QBs are marked and the ADD button is clicked the CSC XW, package or operation that belong to the QB will be added to the list.
- **CANCEL** - if you want to add QB:s to the list but later on choose this selection. The QB window will pop up as soon as the list is reloaded.

**NOTE**

It is not permitted to have more than max quantity (often 1) of an operation or package in a list. If more than max quantity is added the quantity box will become red to mark that the max quantity is passed. You have to remove articles when this happens.
All QB related CSCs, operations and packages that are added to the list will be marked with the QB reference number. It can be viewed by expanding the element using the arrow to the right of the checkbox.

NOTE

You need to upgrade to DMS interface version H for the QB reference number to be included when the work list is transferred to the DMS.

5.4.4.2 Adding CSC (Customer Symptom Codes)

CSC:s can be added to a work list by either the free text search on the WORK LIST tab or by navigating through a tree structure located on the VEHICLE PROFILE → CSC tab.

5.4.4.2.1 Add CSC from the CSC tree

1. Select vehicle profile or read out VIN.
2. Click the CSC tab.
   → Tree structure with CSC is displayed.
3. Click on the heading in the CSC list to find the correct CSC.
   → More detailed information is displayed by clicking on a heading.
4. Check one or more CSC that are to be added.
5. Click ADD TO LIST.

NOTE

If you try to add a CSC that is already in the list you will get a question if you would like to add a new row.

→ CSC are added to the active list under the WORK LIST tab.

6. Click the WORK LIST tab.
   → The added codes are displayed.

CSC:s can be removed by marking the checkbox and clicking DELETE CSC. The entire list is erased by clicking DELETE without having any items marked.
5.4.4.2.2 Add CSC from Work List search

To access the free text search function, navigate to the WORK LIST tab.

1. Type a text string or CSC in the free text field which is located in the upper central section.

2. Select CSC in the drop down list below the free text field.

→ Fig. 21 Drop down list

3. Click SEARCH.

4. Select CSC by clicking ADD.

**NOTE**

If you try to add a CSC that is already in the list you will get a question if you would like to add a new row.

→ CSC are added to the active list under the WORK LIST tab.

5.4.4.3 Adding parts

Parts can be added to a work list by either using the free text search on the WORK LIST tab or by navigating through the Parts Catalog.

**NOTE**

To get full filtering when adding parts to parts lists or work lists, the Vehicle Details function has to be used. For more information, see chapter 4.2 Vehicle Details on page 19.

5.4.4.3.1 Adding parts from Work List search

It is possible to add parts by a search function on the WORK LIST tab.
To add parts by search:

1. Navigate to the **WORK LIST** tab.
2. Insert a text string or part number in the free text field, which is located in the upper central section.
3. Select Part description or Part number in the drop down list below the free text field.
4. Click **SEARCH**.
5. Select part by clicking **ADD**.

**NOTE**

If you try to add a part that already is in the list you will get a question if you would like to increase the quantity or add a new row.

→ The part is added to the list.

**NOTE**

If you do not want to add any parts from the search you have to click **BACK** to come back to the work list.
5.4.4.3.2 Adding parts from the Parts Catalog

1. Select the parts catalog and navigate to the wanted section.
   - VIDA shows parts that fit the selected vehicle profile. Information about the
     vehicle profile is shown together with the document title in the navigation
     tree.

2. Select the wanted part in the navigation tree.
   - VIDA closes the navigation tree and shows the relevant part in the parts
     catalog. By default the first part in the table is always highlighted.
   - The following information about the part is found in the catalog table:
     - Figure number
     - Part number
     - Quantity
     - PS-code
     - Description
     - Notes

3. Click on a part in the table or navigate through the parts in the table with the
   arrow buttons.
   - The matching part is shown in the picture and related information is shown
     (such as footnotes and replacement parts).
   - In the same way, a part can be selected in the picture and the matching
     row in the table is shown.

4. Select a list in the drop-down menu.
   - Select a part by clicking the checkbox by the part.
   - Click ADD TO LIST or press the RETURN button.

   NOTE
   If you try to add a part that already is in the list you will get a question if you
   would like to increase the quantity or add a new row.

   - The selected part is added to the selected list. It is possible to check that
     the part has been added to the list by clicking on the tab WORK LIST.

5.4.4.4 Adding packages from Menu Pricing

Packages containing parts and operations from Menu Pricing can be added to the
work list by using the text field in the WORK LIST view in VIDA or by opening the
MENU PRICING window.

5.4.4.4.1 Work list view

1. Go to the WORK LIST tab.
2. Type a search string in the text field.
3. Select Operation Description or Operation Number based on your search
   string in the drop down list below the text field.
4. Click SEARCH.
   ➔ Search results will be generated and presented.
5. Click ADD PACKAGE on the desired package.

**NOTE**
A package that is already in the list cannot be added again. An error message will appear informing that the package is already in the list.

   ➔ The package has now been added to the work list.
6. Click on the WORK LIST tab.
   ➔ The added package will appear in the work list.

### 5.4.4.4.2 Menu Pricing window

1. Select the desired vehicle in the VEHICLE PROFILE tab.
2. Click on MENU PRICING.
   ➔ A new window will appear displaying the MENU PRICING content.
3. Select package by navigating through the tree structure and ticking the checkbox connected to the desired package.
4. Select work list in the drop down menu.
5. Click ADD OPERATIONS TO LIST.
   ➔ The package is now added to the work list in VIDA.
6. Click on the WORK LIST tab in VIDA.
   ➔ The added package will appear in the work list.

### 5.4.4.5 Adding operations

1. Navigate to the WORK LIST tab.
2. Insert a text string in the free text field, which is located in the upper central section.
3. Select CSC in the drop down list below the free text field.
4. Click SEARCH.
   ➔ A list with search results will be generated.
5. Select CSC by clicking ADD.
   ➔ The element has now been added to the work list or part list.

**NOTE**
Many operations have a max quantity limit (often 1). If you try to exceed the max quantity an error message will appear and it will not be possible to add the operation to the list again.
5.4.4.6 Assigning a job number to an element in the work list

To assign a job number to an element in the work list:

1. Navigate to the WORK LIST tab.
2. Insert the desired job number in the Job no. column.

![Fig. 22 Job no. column](image)

3. To confirm, click SAVE.

   → The element in the work or parts list has now been assigned a job number.

5.4.4.7 Deleting elements

To delete an element in a work list or part list:

1. Navigate to the WORK LIST tab.
2. Tick the checkboxes connected to the element(s) to be deleted.
3. Click DELETE

   NOTE

   If no element is ticked the complete list will be deleted when the OK button is clicked.

   → A pop up window appears.

4. Click OK in the pop up window.

   → The element in the work list or part list has now been deleted.

5.4.4.8 Getting detailed information about an element

To get additional information about an element in a work or parts list, click on the arrow to the right of the checkbox.
The information that will be shown is dependent on the type of element.

<table>
<thead>
<tr>
<th>CSC</th>
<th>Parts</th>
<th>Operations</th>
<th>Packages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comments</td>
<td>Price with VAT</td>
<td>QB number</td>
<td>ID</td>
</tr>
<tr>
<td>QB reference</td>
<td>Price without VAT</td>
<td>Labor cost/hour</td>
<td>Description</td>
</tr>
<tr>
<td></td>
<td>QB reference</td>
<td>QB reference</td>
<td>Labor cost/hour with VAT</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Job value</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cost</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Comment</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Quantity and location of parts</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>QB reference</td>
</tr>
</tbody>
</table>

5.4.4.9 Changing the quantity of each type of element
To change the quantity of a type of element:

1. Navigate to the WORK LIST tab.
2. Find the Qty. column.
3. Adjust the quantity of a certain element by assigning a number in the text box connected to the desired element.
4. Click SAVE.
   → The quantity of the specific element has now been changed.

**NOTE**
If max. quantity is reached the quantity box will turn red.

5.4.4.10 Assigning comments to an element
Comments can be added to each one of the elements in a work list.

1. Go to the WORK LIST tab.
2. Click on one of the elements in the work list.
3. Add a comment in the free text field named Comment.

4. Click SAVE to save the comment.

Fig. 23 Assigning comments

The comment has now been added to the element.

NOTE

You need to upgrade to DMS interface version H for the comments to be included when the work list is transferred to the DMS.

5.4.5 Deleting a list

To delete the complete list:

1. Ensure that no checkboxes are ticked and press DELETE
   → A message box appears.
2. Click OK.

5.4.6 Renaming a list

To change the name, type or order number of a list, click RENAME and specify desired names or numbers in the pop up window.

5.4.7 Changing VIN in a list

The change VIN function connects the list to another VIN. All parts, operations and packages that are not available for the new VIN will be deleted from the list.

To change the VIN in a list:

1. Go to the WORK LIST tab.
2. Press CHANGE VIN.
   → A pop up window opens containing previously used VIN:s.
3. Select the desired VIN that should be connected to the work list.

5.4.8 Exporting and importing lists

It is possible to import and export a list. When a list is exported it can be saved to any location with or without vehicle profile connected to it. An exported list can be sent to another user and opened in another VIDA client by importing it.
5.4.8.1 Exporting lists
Opens a dialog box to save an existing list as a file that can be imported to other VIDA clients. The list will remain in VIDA after it has been exported.

5.4.8.2 Importing a parts or work list under the tab WORK LIST
1. Make sure the list file is available on your local computer or on the network. The file extension should be .csv.
2. Click on the IMPORT button.
3. Click on the Browse button.
4. Select the file and click on the Open button.
5. Select if you want to use the vehicle profile from the imported list or the active vehicle profile in VIDA.
6. Select if you want to add the imported list to the existing list or if you want to create a new list.
7. Click on the IMPORT button.

5.4.9 Printing lists
In the WORK LIST tab, a printable version of the active work list can be created by pressing PRINT.

5.4.10 Editing list properties
In the WORK LIST → SETTINGS it is possible to change list properties such as language, default search category, default list grouping, maximum number of results per search page.

5.4.10.1 Changing language
It is possible to change language on the data received from Menu Pricing i.e. text for operations and packages.

To change the language:
1. Navigate to the WORK LIST tab and click SETTINGS.
2. Select desired language in the drop down list. The language has now been changed.

5.4.10.2 Changing default search category
It is possible to search within the following categories:

- Part number
- Part description
- Customer Symptom Codes
- Operation Number
- Operation Description
- Job Scope Description
To select default search category in the WORK LIST tab:
1. Click the SETTINGS sub tab.
2. Select desired Default search category in the drop down menu.
3. Click SAVE.

5.4.10.3 Changing default list grouping
It is possible to group lists with respect to a list's type, job number or vehicle profile.
To select default list grouping in the WORK LIST tab:
1. Click the SETTINGS sub tab.
2. Select Default grouping parameter in the drop down menu.
3. Click SAVE.

5.4.10.4 Changing the maximum number of results per search page
It is possible to specify the maximum amount of search results per page with a number between 25 and 200.
To change the number of results per search page:
1. Click the SETTINGS sub tab.
2. Select Search results per page parameter in the drop down menu.
3. Click SAVE.

5.4.10.5 Customizing the list grouping
The elements in a work list can be grouped based on an element's Type, Job no. or Vehicle profile. To customize the grouping, open the drop down list placed in the upper right corner in the WORK LIST tab and select the desired parameter that specifies the list grouping.

5.4.10.6 Viewing work lists
It is possible to select what list is to be shown in the list view. Lists connected to a specific vehicle or user. To select what list is to be viewed, click the CHANGE WORK LIST sub tab and click on the desired list.

5.4.10.7 Show lists for all vehicle profiles
By ticking the Show lists for all vehicle profiles checkbox, the operator can select a list regardless of vehicle profile.

5.4.10.8 Show other users' lists
By ticking the Show other users' lists checkbox, the operator can open lists created by other users within the same workshop.

5.4.11 Locked work list
A list is locked as long as a user has the list open in VIDA. When the list is locked, nobody except the user can make any changes to the list. They can see the list and open it but not change anything. It is possible to export a locked list to a DMS. If the user closes the list it will be available to other users.

5.4.12 Import work order from DMS
To import a work order to a work list in VIDA:
1. Go to the VEHICLE PROFILE tab.
2. Enter VIN, Chassis, License plate, Work order no. or Customer number in one of the text boxes.
3. Click **RETRIEVE FROM DMS**.
   → A pop up window will appear with relevant work orders.

4. Select work order by clicking on **SELECT**.
   → Vehicle information is retrieved from the DMS.

5. Open the work list by clicking on the **WORK LIST** tab.
   → A new work list has been created containing the CSCs from the work order.

**NOTE**

If the work order already has been imported to VIDA from DMS i.e. there is already a work list with the same name as the work order, the user will get an error messages - This work order has already been imported into a work list. Delete the existing work list and retrieve the work order from the DMS again. To import the work order to VIDA again the existing work list has to be removed.

Even if you change vehicle profile in VIDA the active work list will remain. You have to export it to the DMS or delete it if you do not want to use it any more.

### 5.4.13 Retrieve prices and stock quantity from DMS

Add articles to the list as it is done in see chapter 5.4.4.1 **Adding Quality Bulletin operations on page 36** and the following chapters.

1. Assign job numbers to all the elements in the list see chapter 5.4.4.6 Assigning a job number to an element in the work list on page 42.

2. Tick one the including/excluding VAT radio buttons in the upper right corner of the work list.

3. Click on **RETRIEVE FROM DMS**.
   → Stock quantity and price incl./excl. VAT are retrieved from the DMS.

   If the stock quantity is insufficient the border of the Qty. field will turn red.

#### 5.4.13.1 Show prices incl./excl. VAT

To see prices incl./excl. VAT for packages one of the Incl. VAT, Excl. VAT checkboxes have to be ticked.
5.4.13.2 Show fixed price

To see fixed price for packages, the Show fixed price for packages checkbox has to be ticked. The fixed price will show up in green and a checkbox for each package will appear when the prices have been retrieved from the DMS. Tick the checkbox(es) connected to a package(s) to enable Fixed Price.

If you uncheck Show fixed prices for packages, all prices will get the default price. If you want to keep the fixed prices for desired packages, ensure that the checkbox Show fixed prices for packages remains checked.

5.4.14 Send work list to DMS

1. Go to the WORK LIST tab.
2. Click on SEND LIST TO DMS.
   → A pop up window will appear.
3. Select if you want to add the list to an existing list or create a new order.
   → You can add text in the comment field.
4. Click on SEND LIST TO DMS.
   → Work list is sent to the DMS.

5.4.15 VIDA Work List offline functionality

If you are working with VIDA All in One on a computer with no network connection you will have access to limited functionality in the Work List.

When VIDA detects that you have no connection to the central systems, you will receive a question asking if you want to go offline. If you answer "Yes" VIDA will enter offline mode, this will be communicated with the text "Offline" in red shown in the top of the window.

In offline mode you will be able to:

- Create a new parts list.
- Create a new work list.
- Add parts from the Parts catalog to a parts or work list.
- Add CSCs from the CSC tree to a work list.
- Import and export parts or work lists.

**NOTE**

You will only be able to work with one list at a time, if you create a new list the previous list will be deleted. The list will be saved locally on your computer.

In offline mode you will not be able to:

- Access other lists stored centrally in VIDA.
- Work with several lists at the same time.
- Use the search function to add items to a list.
- Add operations or packages to a list.
5.5 The DIAGNOSTICS Tab

To use VIDA diagnostics, a vehicle must be connected to a communication tool (DiCE).

The communication tool must be connected to the computer via USB/Bluetooth (DiCE) and to the vehicle via the vehicle’s diagnostic socket. Be sure to select the correct communication tool in the Communication tool drop-down list on the VEHICLE PROFILE tab. For information about selecting communication tool, see chapter 6.1 Select a Communication tool on page 61.

Under the DIAGNOSTICS tab you will find the following sub-menus:

- DETAILS
- NETWORK
- FAULT TRACE
- REFERENCE INFORMATION
- VEHICLE COMMUNICATION

When the DIAGNOSTIC tab is selected VIDA collects information about the car. This is the first step of the fault tracing flow. The information may be of use in later steps of the fault tracing.

Fig. 25 Information about the car

NOTE

If the CEM does not respond, the DIAGNOSTICS tab remains disabled. To fault-trace the CEM, enter the VIN manually. This makes the DIAGNOSTICS tab available and fault-tracing possible.

All supplementary information under the diagnostics flow is mentioned in the chapter The INFORMATION tab, see chapter 5.3 The INFORMATION tab on page 29. To get back, click on the DIAGNOSTICS tab.
5.5.1 DETAILS
The DETAILS tab is a detailed presentation of information about the vehicle including vehicle configuration in text, read from the Central Electronic Module (CEM) (does not apply to older S/V40 models). This function is only for information purposes and is not connected to fault-tracing.

5.5.2 NETWORK
Network status checks deviations in the vehicle’s network communication. Deviations are shown in the Vehicle Graphic of the network and all its control modules.

The Control Modules can have three different colors that are explained through the symbol:

Green – Control Module responsive to communication
Red  – Control Module not responsive to communication
Gray  – Control Module not part of the vehicle configuration (it may, however, be in the relevant vehicle model)

Some or all of the following information is shown by clicking on a control module:

- Design and function
- Component location
- General diagnostics and tests
- Specifications, electrical/electronic
- Specifications, other

5.5.3 FAULT TRACE

Fig. 26 The FAULT TRACE tab

FAULT TRACE constitutes the way in to fault-tracing in VIDA. It lists related diagnostic tests for CSCs. A white arrow to the left of the FAULT TRACE button indicates that no Control Module has registered DTCs. An orange arrow indicates that one or more Control Modules have registered DTCs. Related tests are available under the Selected CSC or Unselected CSC tabs.
Initial State
The first tab is Initial State. VIDA shows the Vehicle Graphic, read DTCs and their relationship to CSC.
This is the complete picture as a result of the first readout of the vehicle.
The Control Modules can have four different colors that are explained through the symbol:
- Green – No DTC is present
- Red – DTC is found active
- Yellow – DTC is found not active
- Gray – Control Module not part of the vehicle configuration or not responsive to communication

NOTE
No fault tracing of a diagnostic trouble code can be run from the Initial State tab. This is done from the Selected CSC or the Unselected CSC tabs.

Selected CSC
This is the default view of the FAULT TRACING tab if a CSC is selected. Here you can find tests connected to the selected CSC. All DTC tests are sorted depending on status. The status “red traffic light” is of higher status than “yellow traffic light” and will show first in the list. There are no new types of tests in SBF (Symptom Based Fault trace) compared to previous VIDA versions but they are now connected to a CSC. However, some CSCs have got a new type of information called Information and verification. Note that it is not always that such information will be available. The result of each test will be shown in the ACTION HISTORY column.
The Vehicle’s Graphic will always represent the status of the DTC in relation to the listed CSCs.
The Control Modules can have five different colors that are explained through the symbol:
- Green – Control Module has a relation to selected CSC but no fault found by the DTC test
- Red – Control Module has a relation to selected CSC and DTC is found active
- Yellow – Control Module has a relation to selected CSC but DTC is found not active
- White – Control Module has no relation to selected CSC
- Gray – Control Module not part of the vehicle configuration or not responsive to communication
The result of each test is shown in the column for ACTION HISTORY.

Unselected CSC
This is the starting point of the FAULT TRACE tab if no CSC is selected.
The Vehicle Graphic always represents the status of the DTC and shows its relation to one or several CSCs.
The various colors have the same meaning as in SELECTED CSC above.

Delivery
When the Delivery tab is selected VIDA first reads out all DTCs and shows them with their current status.
ERASE ALL must be selected in order to erase all DTCs in the vehicle. Once the DTCs are erased, you will be asked to start the vehicle twice and let it idle before DTCs will be read out from all Control Modules as a final check.
If you only would like to erase DTCs from an individual Control Module you have to select the specific Control Module in the Vehicle Graphic e.g. CCM. This will enable the option **ERASE CCM** that will erase DTCs in the selected Control Module only. Once DTCs are erased, you will be asked to start the vehicle twice and let it idle before DTCs will be read out from all Control Modules as a final check.

**READ ALL** reads out all DTCs and show them with their current status.

**NOTE**

No DTC Information or Extended DTC information could be reached from the Delivery tab. This is done from the Selected CSC or Unselected CSC tabs.

### 5.5.3.1 Extended DTC information

The extended DTC information is displayed when a test relating to a DTC is selected. It is divided into three different tabs:

- **Overview** - The Overview tab is the default tab when a DTC test is opened. The DTC information is presented here.
- **Details** - Information about Counter Values, Status Identifiers/Status Bits and Frozen values. Counter values could also be presented in a graph.
- **Timeline** – Contains information about when the DTC was set the first time.

**NOTE**

Timeline will only show if the DTC is read out from a Control Module that has the latest diagnostic protocol. Otherwise, it will be disabled.
Common functions within the three different tabs are General Status Information and the buttons:

- **FAULT TRACE**, "opens" the actual fault-tracing tree
- **UPDATE**, re-reads the Counter and Status identifiers /Status bits values that will be updated accordingly.
- **CLOSE**, closes the extended DTC information.

**NOTE**

The symbol. Click this symbol to read context sensitive information on respective part. The information in these texts differs depending on the context. Some information is also available in mouse over texts.

### 5.5.4 REFERENCE INFORMATION

**CSC based**

The CSC structure is found under this sub-tab. The table of contents can be expanded downward to a CSC level. When a CSC is selected, related diagnostic tests will be listed. There could be three types of tests.

- Information and verification
- Symptom related diagnostic procedures
- Diagnostic trouble codes and associated procedures

**DTC based**

This sub tab shows the vehicle's schematic graphic. When a control module is selected, all connected DTCs are listed. When a DTC is selected, corresponding CSCs are shown.

The REFERENCE INFORMATION is available even if a vehicle is selected manually or not connected to a communication tool.

### 5.5.5 VEHICLE COMMUNICATION

The Control Modules can have two different colors that are explained through the symbol:

- **Green** – Control Module responsive to communication
- **Gray** – Control Module not part of the vehicle configuration or not responsive to communication

There are three different groups of vehicle communication under the heading VEHICLE COMMUNICATION:

- Parameters
- Activations
- Programmed values.

**Parameters**

By clicking on a control module on the overview picture, a predefined list with parameters will be shown. Detailed information for every parameter is available via a link in the parameter list. Parameters can be shown graphically, digitally, or in a table. It is possible to communicate with several parameters and/or control modules.
NOTE
It is not possible to add read values from different diagnostic protocols.

Activations
By clicking on a control module on the overview picture, a predefined list with parameters that can be activated will be shown. Detailed information for every parameter is available via a link in the parameter list.

Programmed values
By clicking on a control module on the overview picture, a predefined list with parameters that can be programmed will be shown. Detailed information for every parameter is available via a link in the parameter list.

5.6 The SOFTWARE Tab

VIDA connects to PIE to purchase software products. Several software products per vehicle can be ordered in the same order and at the same time.

Software products can be purchased in VIDA:
- via the Parts catalog
- directly under the Software tab.

Markets that use Volvo Vision keep the existing routine, which means that the VIDA user can ask PIE using the QUERY ORDER button.

When the software is available locally, it is selected for downloading to the vehicle. After downloading a confirmation is sent back to PIE.
To switch between vehicles in the software tab, select the corresponding communication tool in the drop-down list. If no active VIN/communication tool associations exist, select a free communication tool in the Communication tool drop-down list and click READ VEHICLE.

It is possible to download software to up to three (3) vehicles in parallel.

NOTE
Parallel software download is only possible with DiCE. It is not possible to use parallel programming with generic J2534 devices.

For more information about the Software download process, see chapter 6 Software download on page 61.

Reset customer parameters for the S60, S80 (-06), V70 (00-08), V70 XC (01-) / XC70 (-07), and XC90
Before downloading software VIDA reads off all customer parameters from the vehicle and saves them locally during download. After download, VIDA customer parameters are reset in the vehicle. In the software manager there is a Reset Customer Parameters tab that is used to see which parameters that have been reset in the vehicle. Only parameters whose values have changed from the factory settings are shown.

5.6.1 To use the Software tab
The following buttons and functions are found on the SOFTWARE tab:

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADVANCED</td>
<td>Here, ECU information can be obtained, an ECU can be affected, vehicles read off, DiCE tested and connections to PIE tested.</td>
</tr>
<tr>
<td>PRINT</td>
<td>Creates a PDF file with the relevant software list for print out.</td>
</tr>
<tr>
<td>... (Software product)</td>
<td>Contains a list of all software relevant to selected vehicle type.</td>
</tr>
<tr>
<td>ADD</td>
<td>Instead of pressing &quot;...&quot; a part number can be entered at Software product. This can be added to the SOFTWARE LIST by clicking ADD.</td>
</tr>
<tr>
<td>Communication tool</td>
<td>Before vehicle communication can be established a communication tool has to be selected in the drop-down list.</td>
</tr>
<tr>
<td>S/V40 (-04) REPROGRAMMER</td>
<td>Vehicles of this type must be managed in a special way in VIDA. Further information is mentioned in chapter S/V40 (-04) Reprogrammer, see chapter 7 S/V40 (-04) REPROGRAMMER on page 80.</td>
</tr>
<tr>
<td>QUERY ORDER</td>
<td>Shows a list of software orders that can be retrieved by VIDA All-in-one.</td>
</tr>
<tr>
<td>READ VEHICLE</td>
<td>Establish communication with the vehicle that is connected to the selected Communication tool.</td>
</tr>
</tbody>
</table>
Function | Description
--- | ---
**SEARCH** | It is possible to search in the SOFTWARE LIST and DOWNLOAD HISTORY list.

**SOFTWARE LIST** | A list of current orders that have not yet been saved in the vehicle.

**DOWNLOAD HISTORY** | A list of orders that have been managed at this VIDA All-in-one.

**PURCHASE** | Retrieves the current software order to VIDA All-in-one.

**RETRIEVE** | Retrieves a software order that has been transferred from QUERY ORDER.

**REVOKE** | Cancels a software order.

**ORDER FOR AN INDEPENDENT WORKSHOP** | Used during software ordering for independent workshops.

**REMOVE** | Deletes selected software or order. Applies to orders with initialized status.

**Order details** | Displays information about the software order in the window in the lower left-hand corner.

**CONTINUE** | When the button **CONTINUE** is selected a unique vehicle download tab for the corresponding vehicle will be created.

**Fields that can be edited:**

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIN</td>
<td>Enter VIN or chassis number.</td>
</tr>
<tr>
<td>Chassis</td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>Contains a list of eligible vehicle models.</td>
</tr>
<tr>
<td>Year</td>
<td>Contains a list of eligible vehicle model years.</td>
</tr>
<tr>
<td>Order reference</td>
<td>The order reference is given here.</td>
</tr>
<tr>
<td>Software product</td>
<td>A part number for specific software can be entered here directly, instead of having to open the entire software list.</td>
</tr>
</tbody>
</table>
| Add to: | Mark the box and select a part number. The software will be added to both the software list and the work List.  
**NOTE! This box must be marked before selecting a software.** |

5.7 **The SEARCH tab**
The search function can be accessed via the **SEARCH** tab.
When viewing a document that has been found with the VIDA Search function, the word(s) used as search argument(s) will be marked in the document. This is valid for Service Information, Installation Instructions, Fault trace documents and Bulletins.
A search hit will be displayed in bold red font and VIDA will scroll down to the search hit.

If there are many search hits in one document, all search hits will be marked with bold red font, except the first search hit which will be bold white font on a gray background. Pressing [Enter] will toggle between search hits.

If a search is performed on parts of a word, e.g. sea*, the complete words seat and seal will both be marked red.

Fig. 29 Search results marked in the document

When a search has been performed and the user clicks Back the same search options are preselected. This is also true if a new search is performed from the page which displays the search results, i.e. if a search is performed and a result is given and the user performs a new search. This second search will have the same search options as the first search that was performed.
Click on the links in the search results to view the information. To go back to the search results, click the SEARCH tab.

5.7.1 Searching in all models

It is possible to search in all models and model years, regardless of which information one is searching. When searching in all models, the filter for vehicle profile must be turned off. It is for example possible to search by part number to determine in which vehicle the part can be used.

CSC always searches by relevant vehicle profile.

5.7.2 Minimum search length

Words that are shorter than 3 characters will be excluded from the search. This is to increase the performance of the search engine.

If a search is made that contains words with 1-2 characters, the search is performed without these short words. The result is displayed with a message to the user that words containing 1-2 characters have been removed from the search.

To search on an unknown or partly known "Part description" by using the "asterisk" * and search for a known "NOTE":

- Fill out the search for the unknown/partly known word by using the "asterisk" * until three characters are shown.

Examples:
Unknown = ***
Partly known = A** or AB*

5.7.3 Searching in the parts catalog

In addition to searching with or without the vehicle profile it is possible to search for part numbers which have been discontinued, because notes are included when searching for part numbers or part descriptions. Select search by part number.

Search can also be done by text in the notes. For example, when searching for a part description, one can also find discontinued parts, since the notes are searched as well.
The search function allows the use of a wildcard symbol. Wildcard symbols make it possible to search for information without a complete search word. The wildcard also works in searching in the part description combined with notes. When wildcards are not used the function searches for the exact word entered.

Asterisks (*) are interpreted as unknown symbols (even 0 symbol). Asterisk and ALL marked give the following search options for example.

- Searching for `engine*` means all words beginning with engine. The results could be engine, engine control module, engine temperature etc.
- Searching for `s*y*` gives results that begin with "s" and contain the letter "y", for example, system.
- Searching for `*cover` gives results that end with cover, for example, timing cover, cover and protective cover.

Question mark (?) is interpreted as a single unknown symbol. Question mark and ALL marked give the following search options for example.

- Searching for `CA?` means all words beginning with "CA" followed by one single character. The results could be CAD, CAR, etc.

If unsure of the spelling the question mark can be used in the middle of a word.

Searching with ANY marked gives the following search possibilities for example:

- Searching for "protective cover" gives results containing either protective or cover.
- Searching for "protective* *cover" gives results containing words that end with cover or start with protective, for example, filler cover, protective, cover and protective panel.

The search result is shown in sections. The following is shown:

- Number of hits
- Function group
- Vehicle Profile
- Title of section

The search result can also be shown per part. Display per part is preselected. The following is shown:

- Number of hits
- Function group
- Part number
- Part description with notes in plain text if they have been included in the search
- PS-code
- Vehicle Profile
- Title of section

The search results can be added to the WORK LIST by clicking the part number in the search results. It is marked gray in the search results as confirmation.

### 5.7.4 Searching in Service information and diagnostic information

When Fault-tracing is selected, only DTC information and fault-tracing information is searched. Searching does not progress to linked information in a fault-tracing tree.
It is possible to leave out part information in the search.

**Search possibilities are:**

- Repair (includes all information types)
- Fault tracing (includes all information types)
- Product specification (includes all information types)
- Bulletins (includes all information types)
- CSC (CSC related search)
- All information except Parts Catalog (and CSC)
- VCC Id.

### 5.7.5 Searching CSC

Searching CSC requires vehicle profile, at least model and model year. Searching occurs in all information fields that are available for CSC.

Enter a word, part of a word or combination of words to search CSC. Select to search ALL or ANY words. Searching with ALL marked gives the following search possibilities for example:

- Searching for "sta" gives results containing sta, for example, start, constant.
- Searching for "start" gives results containing start, for example, start, starter motor.
- Searching for "difficult start" gives results containing both "difficult" and "start", for example, "difficult to start".

Searching with ANY marked gives the following search possibilities for example:

- Searching for "difficult start" gives results containing either "difficult" or "start", for example "difficult to start", starter motor.

**NOTE**

When searching for a CSC code you have to put an asterisk (*) after the code, see chapter 5.7.2 Minimum search length on page 58.

CSC can be added to **WORK LIST** by clicking the code in the search results. The added CSC are marked gray in the search results as confirmation.
6 SOFTWARE DOWNLOAD

In order to perform a Software Download, the vehicle needs to be connected with a communication device to VIDA. The device will translate messages between the PC and the in-vehicle network. For information about how to install DiCE and test communication with VIDA, see DiCE Installation Instruction.

The communication tool is configured on the VEHICLE PROFILE tab or on the SOFTWARE tab. It is possible to use more than one DiCE, for software download, at the same time.

In order to download large software products to the MOST network, a USB memory has to be used.

NOTE
VIDA will only approve the USB that Volvo Car Corporation has developed as a special tool for this specific purpose.

For more information about software download with USB memory, see chapter 6.3 Software Download to vehicle through USB memory on page 72.

6.1 Select a Communication tool

Before vehicle communication can be established a communication tool has to be selected. This should be done in the Communication tool drop-down list on the VEHICLE PROFILE tab or on the SOFTWARE tab.

All communication tools that are installed on the VIDA client are listed in the Communication tool drop-down list.

Fig. 31 Installed Communication tools
6.1.1 Communication tool drop-down list (VEHICLE PROFILE)

There are several ways to specify a vehicle profile in VIDA:

- vehicle profile can be set manually using the drop-down lists. (Do not select communication tool in the drop-down list.)
- entering a VIN (Vehicle Identification Number) manually
- select a row in the Latest identified vehicles list
- query VIN from DMS
- read VIN from the vehicle. (Select a Communication tool in the drop-down list.)

A communication tool has to be selected in the drop-down list prior to the vehicle profile being entered if a Diagnostic read out or Software download will be performed. To view a previous Diagnostic read out or diagnostic reference information, do not select Communication tool in the drop-down list.

![Communication tool drop-down list](image)

Fig. 32 The Communication tool drop-down list

Select a Communication tool in the drop-down list before performing the following activities:

- Read the VIN from a vehicle
- Diagnostic read out
- Software download

**NOTE**

Before vehicle communication can be established, a communication tool has to be selected in the Communication tool drop-down list.

In order to help the user to see to which vehicle a certain communication tool is connected, all LEDs on the selected Communication tool will flash.
NOTE
This function is only available on DiCE.

The default value in the Communication tool drop-down list is Not selected.

### 6.1.1 Latest identified vehicles list

When **READ VEHICLE** is selected that VIN will be associated with the selected communication tool. This association will appear in the Latest identified vehicles list. As long as a communication tool is associated with a VIN, the **READ VEHICLE** button in VIDA will be disabled, i.e. the communication tool cannot be moved to and used with another vehicle.

In order to disconnect the communication tools association to the current VIN, **CLEAR VEHICLE PROFILE** has to be performed. This will make the communication tool available in the drop-down list and it will be possible to move the communication tool to another vehicle.

### 6.1.2 Multiple communication tools (DiCE only)

It is possible to use more than one DiCE, for software download, at the same time. As soon as another DiCE should be used, a free DiCE in the Communication tool drop-down has to be selected before **READ VEHICLE** is enabled and could be selected. All active associations between vehicles and communication tools will be shown in the Latest identified vehicles list.
When selecting a communication tool in the Communication tool drop-down list the corresponding vehicle will be moved to the upper most row in the Latest identified vehicles list, see image below.

![Fig. 34 Active associations between vehicles and communication tools](image)

When selecting a vehicle in the Latest identified vehicles the associated communication tool will be shown in the Communication tool drop-down list.

6.1.3 Communication tool status

VIDA will only allow one diagnostic session at a time. When one vehicle has entered the DIAGNOSTICS tab, the diagnostic tab will be disabled for all other vehicles. VIDA will also prevent diagnostic scripts during software download for these other vehicles.
As an aid to the user, the communication tool status will be shown in the Latest identified vehicles list, when a DiCE unit is active in the DIAGNOSTICS tab or SOFTWARE tab respectively.

![Fig. 35 Communication tool status](image)

**Example**

In the screen shot above, if the C30 is chosen, either in the Latest identified vehicles list or its associated communication tool in the drop-down list, the DIAGNOSTICS tab will be disabled.

6.2 **Software download on multiple vehicles**

It is possible to use more than one DiCE for software download at the same time.
6.2.1 Communication tool drop-down list (SOFTWARE)

When the SOFTWARE tab is chosen the vehicle profile information will be shown (VIN, Model etc.). If there is a Software download status for the communication tool, it will be shown in the Communication tool drop-down list.

![Software tab](image)

*Fig. 36 Software tab*

To switch between vehicles in the software tab, select the corresponding communication tool in the drop-down list.

If no active VIN/communication tool associations exist, one has to select a free communication tool in the Communication tool drop-down list and click READ VEHICLE.
6.2.2 Purchase a Software product

The Software product purchase procedure is almost unaltered. If needed, it is possible to Purchase Software products for different vehicles and download them in parallel.

![Fig. 37 Purchase software](image)

The button CONTINUE is disabled until a row with Order status Available is selected.

6.2.3 Order details

Order details will be shown when a row with an Available software is selected.

![Fig. 38 Order details](image)
In Order details two rows have been added:

- USB memory needed
- Estimated total time is approx.

If the software package is large it will be downloaded to a USB memory to increase download speed to the vehicle, see chapter 6.3 Software Download to vehicle through USB memory on page 72. The estimated download time is given to increase workshop efficiency.

6.2.4 Verify Software Package

Software download can take place to more than one vehicle at a time. Each vehicle will get its own tab. When the button CONTINUE is selected from the SOFTWARE LIST tab, a unique vehicle download tab for the corresponding vehicle will be created.

![Unique vehicle download tab for corresponding vehicle](image)

During verification VIDA will check that the available Software product matches the content in the vehicle.

The following must be fulfilled before the START button is enabled:

- DiCE connected to the vehicle.
- The voltage in the vehicle is above 11 V.
- Bluetooth strength is sufficient (DiCE only).

**NOTE**
In order to prevent VIDA from closing down during a software download, the LOG OUT button will become disabled until the download has been completed.
6.2.5 Download Software Package(s)

The progress of each step that will be performed will be shown on the tab for each vehicle.

As soon as a software download has been initiated for a vehicle, another software download can be started from the tab Software list, if there is a software package available.

The vehicle download tabs will show the total progress as a percentage for each vehicle.

**NOTE**

Up to three parallel software download sessions can be initiated.
6.2.5.1 Diagnostic script attention
If, as part of the software download, a diagnostic script needs to be executed (e.g. calibration of the Climate Control Module) in a vehicle download tab that is not active, VIDA will highlight, in yellow, the vehicle download tab in question.

![Highlighted vehicle download tab](image)

**NOTE**
The Task bar at the bottom of the screen will show what communication tool is involved.
6.2.5.2 Diagnostic script activation
When a highlighted (yellow) vehicle download tab is selected, the diagnostic script will be shown in a "pop-up" so the user can follow the instructions.

Fig. 42 Diagnostic script

6.2.6 Completed Software download sequence
When the software download sequence has been completed the vehicle download tab will indicate 100%. Vehicle download tabs which are inactive will be highlighted in green.

Fig. 43 Completed Software download sequence
The OK button will close the vehicle download tab. The association between the vehicle and the DiCE will be released so that the DiCE can be used on another vehicle.

6.3 Software Download to vehicle through USB memory

The latest generation of Infotainment, that will be found in S60 (11- )/V60, contains considerably larger software files than previous generations. In order to download these large software products to the MOST network, a USB memory is needed.

6.3.1 When is a USB memory needed?

As a general rule, if the software products that should be downloaded to the MOST network are estimated to exceed 6 minutes in download time a USB memory will be used.

NOTE
VIDA will only approve the USB that Volvo Car Corporation has developed as a special tool for this specific purpose.

Fig. 44 Large software product

Once a software product is available the Order details will show if a USB memory is needed and the estimated total download time.

If a USB memory is needed or not depends on:

- the generation of Infotainment
- if the control module is located on the MOST network
- the estimated download time (size of the software product).

NOTE
Some Control Modules on CAN will also require large software products. However, these are not downloaded via USB memory because this is not technically possible.
6.3.2 What Control Modules could be downloaded by means of a USB memory?
Depending on the level of the vehicle’s Infotainment system it is either the ICM or the IAM that will act as a sub-tester. This means that the USB memory stick will not always be input in the same place. VIDA will give instructions on where the USB memory stick should be connected.

6.3.3 Verification
Before the USB memory can be prepared, the software products have to be verified. During verification VIDA checks that the available software product matches the content in the vehicle.

The following criteria must be fulfilled before the verification can begin:
- DiCE connected to the vehicle.
- The voltage in the vehicle is above 11 V.
- Bluetooth strength is sufficient (DiCE only).

**Fig. 45 Verification**

Click **START** to proceed with the verification.

6.3.4 Prepare USB
When the verification is done, connect the USB memory to the VIDA client.
NOTE

VIDA will only approve the USB that Volvo Car Corporation has developed as a special tool for this specific purpose.

Fig. 46 Prepare USB

6.3.4.1 Connection of the USB memory to the vehicle

When all software files have been transferred to the USB memory, it has to be connected to the vehicle before the download sequence can continue. Information regarding where the USB memory should be connected will be given in VIDA.

If the vehicle is going to be moved to another location, for the software download, it should be moved before the software download is started, i.e. before the CONTINUE button is selected.

The following must be fulfilled before the CONTINUE button will be enabled:

- DiCE connected to the vehicle.
- The voltage in the vehicle is above 11 V.
- Bluetooth strength is sufficient (DiCE only).
NOTE

To get sufficient Bluetooth strength it might be necessary to move the VIDA client or the Bluetooth dongle closer to the vehicle.

Fig. 47 Start the software download

VIDA will perform the following tests before the sub-tester is initialized for software download:

- That the USB memory is correctly connected to the vehicle.
- That the correct software files are available on the USB memory.
6.3.5 Download
When VIDA has initialized the sub-tester it will copy the files from the USB memory. It is the sub-tester that handles the software download. VIDA will only monitor the process via the communication tool.

![VIDA Interface with Download Progress]

**Fig. 48 Download**

VIDA will monitor the DiCE voltage and will show a warning if it drops below 11 V.

6.3.6 Confirm
When the software download is finished, VIDA will send a confirmation file to the central systems.

The clock in the vehicle should be set before delivery to the Customer.
VIDA will remind the user to remove the USB memory from the vehicle before the vehicle is delivered to the customer.

![Fig. 49 Confirm](image)

The **OK** button will close the vehicle tab for this vehicle. This will disconnect the relationship between the vehicle and the DiCE. The DiCE can now be used on another vehicle.

### 6.4 Software Download on locked vehicles

When the USB memory stick has been prepared and inserted in the vehicle, it is possible to move the vehicle and complete the Software Download process with the vehicle locked and with the alarm system activated. It is also possible to perform Software Download on locked vehicles for software packages that do not require the use of a USB memory stick.

**For older vehicles:**

For vehicles with an older infotainment system, it is also possible to perform Software Download with a locked vehicle with the alarm system activated, even though a USB memory stick is not used.

**NOTE**

When the software has been downloaded, unlock the doors by inserting the key blade in the lock cylinder and turn. Central locking will not respond to the remote control key. If the alarm is triggered, deactivate it by inserting the remote control key in the ignition switch.

**NOTE**

Please make sure that the vehicle is located in an area with sufficient Bluetooth signal strength if DiCE with Bluetooth connection is used.
NOTE
Volvo requires the use of the Midtronics PSC 550 when performing Software Download and during fault tracing.

Affected variants

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6.5 USB override
It is possible to download large vehicle software files without the usage of a USB memory. Go to ADVANCED on the Software tab and mark the USB handling checkbox, see image below.

Deselect the checkbox or restart VIDA to use a USB memory again.

6.6 Search function
It is possible to search in the SOFTWARE LIST and DOWNLOAD HISTORY list.
1. Select the **SOFTWARE** tab.

2. Enter a VIN or Chassis number.

3. Choose the **SOFTWARE LIST** tab or the **DOWNLOAD HISTORY** tab.

4. Click **SEARCH**.

   ![Image](image.png)

   **Fig. 51 Search function**

   The first result is selected.

5. Click **SEARCH** again to see next result.
7 S/V40 (-04) REPROGRAMMER

7.1 Introduction
The S/V40 (-04) Reprogrammer application is used only to update the engine control module (ECM) (engine management system EMS2000) with new software.

S/V40 (-04) Reprogrammer is available under the SOFTWARE tab in VIDA. Note that the information in the application is only available in English. Note that the screen dumps in this text may differ slightly from what VIDA shows due to updates. However, the content is always the same.

Affected control modules, see further down in this document.
Please note that ENGINE should be filled in together with model, model year and chassis number.

7.2 General

NOTE
For fault tracing items and when the engine control module is replaced, VIDA must be used first, not S/V40 (-04) Reprogrammer. A new engine control module is in "virgin mode" and must therefore be programmed with VIDA before any use of S/V40 (-04) Reprogrammer.

Check that the latest version of VIDA is installed before using the S/V40 (-04) Reprogrammer. For more information about the latest version of VIDA, contact your support.

When the application is running it checks the part number of the control module. If there is a new version of software available the application automatically downloads the new software to the engine control module (ECM). A message is displayed if there is no update available.

CAUTION
Never use the option "Emergency Recovery Mode" as the first option. The reason is that the last successful readout of ECM part number/software is stored in the background and shown/proposed as the current Engine Control Module P/N. If that part number is from another vehicle (e.g. engine control module) than the current vehicle and Emergency Recovery Mode is used, wrong software may be downloaded. The control module can then be corrupt.

Emergency Recovery Mode should therefore only be used after a failed download to the current vehicle and then only if Normal mode can not be used (no part number can longer be readout/identified).

Using the program in Normal mode with a successful readout of part number, does guarantee that the program can identify a possible update of software.
IMPORTANT

If a download session fails due to a broken connection, a request for a new attempt is displayed. It is important to answer YES. Otherwise the application shuts down and leaves the engine control module in an undefined mode, which could result in that the problem can not be remedied. There is no guarantee that a new attempt will work. If the Emergency recovery mode doesn't work the control module should be replaced. See also Emergency recovery mode in this document.

Depending of the updated software size, the time for a complete download varies between approx. 8-30 minutes.

To be able to download new software to the control module, it has to be opened with PIN-codes by a security access service. For the year models 1998 and 1999 the PIN-codes are stored locally. For year models 2000- PIN-codes are stored in the Volvo PIE database.

There is a special calibration function in VIDA for modifying idle speed that must only be used if a customer complains about vibrations at idle. This function is mainly used in Japan, Thailand, Malaysia and Australia. For more information, see Technical Journal.

Model years 1998 and early 1999 vehicles with original control modules can usually not be updated using S/V40 (-04) Reprogrammer due to an older control module hardware. However, there are no risks in trying to update if the vehicle status is unknown. The application automatically cancels the session if an update is not available.

Only Control modules with an original Volvo software is supported by this application.

7.3 Preconditions

The communication between the application and the control module during download is very sensitive to electrical disturbances such as intermittent open circuits etc. To secure a perfect condition for both the application and the vehicle during download, keep this in mind:

- Do not run any other programs in Windows than VIDA and let the computer be unused during download.
- Connect a battery charger before starting the program. Do not disconnect the charger or its supply during download.
- There must be nothing wrong with the communication tool (DiCE) nor with its cables.
- Do not touch or move the communication tool (DiCE), its cables or the connection to the diagnostic link connector in the vehicle.
- Do not touch or turn the ignition key or ignition lock.

NOTE

Let the computer, communication tool (DiCE), cables and the vehicle be undisturbed during the download process.

7.4 Sequence of work at normal download

The sequence below describes the procedure at normal download. For Emergency recovery mode view section further down in this document.
1. In the SOFTWARE tab, select the S/V40 (-04) Reprogrammer tab. The application will start.

2. Follow the instructions and click START.
3. For a normal update reply NO to the question whether the software has been damaged by canceled updating. To enter Emergency recovery mode and repair a canceled update, reply YES.

CAUTION
Never use the option "Emergency Recovery Mode" as the first option. The reason is that the last successful readout of ECM part number/software is stored in the background and shown/proposed as the current Engine Control Module P/N. If that part number is from another vehicle (e.g. engine control module) than the current vehicle and Emergency Recovery Mode is used, the wrong software may be downloaded. The control module can then be corrupt.

Emergency Recovery Mode should therefore only be used after a failed download to the current vehicle and only then if Normal mode can not be used (no part number can longer be readout/identified).

Using the program in "normal mode" with a successful readout of part number guarantees that the program can identify a possible update of software.
4. Follow the instructions and select model, model year, and engine type and fill in chassis number. Click NEXT to check the part number of the control module.

5. The readout part number is shown. Click on NEXT to search for updated software.
6. Updated software is found. Click on NEXT to start the download procedure.

7. The application starts to unlock the control module. For the year models 1998 and 1999 the PIN codes for opening the control module are stored locally. When the control module is unlocked the download procedure continues automatically.
8. For year models 2000- PIN codes are stored in the Volvo PIE database and the codes have to be ordered. Enter order reference. If nothing is entered, the application adds "VEMS" and relevant chassis number as order reference. Click on NEXT to order PIN codes.

9. Application is ordering PIN codes.
10. **NOTE**

For some control modules or part numbers, the application first tries with the locally stored codes, before ordering codes from PIE database. If these codes do not belong to the actual control module an error message is shown, see below.

Click on BACK to start the ordering PIN codes from PIE database.

11. **NOTE**

For more detailed information (for example valid software numbers) please consult VIDA help.

When PIN codes are ordered and downloaded this window is shown. Click on NEXT to start the download procedure.
12. When the application has opened the control module, the download procedure starts.

13. Software downloading is complete. To stop, click **FINISH**.

### 7.5 Sequence of work using Emergency recovery mode

If downloading is interrupted because the connection is broken it may result in the control module being in an undefined mode. This could cause problems which can not be corrected. If the problem occurs, read item Preconditions above.

This function shall only be used if a download of software for some reason fails or has been aborted.
IMPORTANT

If a download session fails due to a broken connection, a request for a new attempt is displayed. It is important to answer YES when a question is shown. Otherwise the application shuts down and leaves the engine control module in an undefined mode, which could result in an unsolvable problem. There is no guarantee that a new attempt will work. If the Emergency recovery mode doesn't work the control module should be replaced. See also Emergency recovery mode in this document.

If Emergency recovery mode is used to download software although the application indicates that no software is available or if the original part number is not in the list of available software, the control module may have the wrong software downloaded and therefore will no longer be able to work correctly. In this case a return to the original software is impossible.

1. For using Emergency recovery mode reply YES to the question whether the software has been damaged by canceled updating.

2. If the part number of the software can not be read, the application will display an error message, see above. To update the control module when this has occurred Emergency Recovery mode must be used. Reply YES to the question according to the image above.
3. If information can not be retrieved, enter the part number of the control module to be updated. Select model, model year, engine type and fill in chassis number. Follow the instructions and click NEXT. When an update has been found, continue according to the ordinary update procedure.

**CAUTION**

When manually entering the original part number in Emergency recovery mode, one of following alternatives must be used (an example):

- 0030614913.000
- 30614913.000
- 0030614913
- 30614913

Other combinations may cause the application to not identify any updated software or wrong updated software.
If the download fails or has been canceled and the application no longer has the original readout part number stored or can identify the original part number, the original part number can be read on the label situated on the engine control module box (see example below). Check if the part number on the label is in the list of valid upgradeable part numbers. If the part number is not in the list, no update is available for the control module.
7.6 General messages and error messages

7.6.1 No update available

No update available for this control module.
This is not an error message. Possible reasons for the message:

- The control module is already updated.
- The latest version was installed in the factory.
- No updates available.
- The control module is an old type and can not be updated.
- The latest software is not in S/V40 (-04) Reprogrammer. Check that the latest version of VIDA is installed.

7.6.2 The request timed out

This error message indicates a communication problem. Possible causes:
• DiCE is not connected to the vehicle or to the computer.
• Low battery level in the vehicle.
• Damaged cables or connectors.

7.6.3 Vehicle not found

This error message means that the selected vehicle has not been found in PIE. Another message is “107- Specified vehicle was not found in PIE server”. Possible cause is that incorrect specifications for the vehicle have been entered.

7.6.4 Download failed

This message indicates that the download process has been aborted due to either communication problem or that wrong software has been downloaded. It may sometimes help to disconnect the engine control module for approx. 5 minutes and then try again.
7.6.5 Failed to unlock the EMS2000 control unit with the supplied codes

If the application fails to unlock the control module this message is shown. The reason for this error is that the application cannot open the control module with the locally stored PIN code or the codes from Volvo PIE database. Possible cause is that:

- Wrong chassis number has been entered when the codes from PIE were ordered.
- An earlier replacement of an engine control module that is programmed with wrong PIN codes.
- The PIN codes in the application are incorrect.

Solution: If wrong chassis number has been used enter the correct chassis number otherwise replace the engine control module according to instruction in VIDA.

7.7 Affected control modules

Control modules with the following part numbers and with original Volvo software can be updated with S/V40 (-04) Reprogrammer.

**B4164S2**

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7.8 S/V40 (-04) Reprogrammer Support

Contact local support if a problem occurs with S/V40 (-04) Reprogrammer.
8 TYPE CASE DESCRIPTIONS

8.1 Subscription

8.1.1 Add a VIDA All-in-one using the registration wizard

After receiving the VIDA DVD, the VIDA Administrator installs the application and the information from the DVD. To log in and use the computer as a VIDA All-in-one, the computer must be registered and included in an existing subscription. When registering, the computer with VIDA All-in-one connects to a central system. How this works is described below.

1. Connect the VIDA All-in-one computer to the network and start VIDA All-in-one.
   → The VIDA All-in-one application is started and the front page is displayed for the first time.

2. Click REGISTRATION GUIDE FOR SUBSCRIPTION.
   → A wizard for registering the computer is started. The wizard consists of four stages:
     - Register computer
     - Select subscription
     - Select user linked to the selected subscription
     - Registration finished

3. Enter a user name and click CONTINUE.
   → If there is no connection with the VIDA Admin central system for some reason, a message appears stating that the central systems could not be contacted. Registration is canceled.

4. Select the subscription that the relevant computer should use, by ticking one of the radio buttons.
   → If a subscription does not have any available licenses, the subscription is shaded. To obtain licenses, a computer must be deregistered or more licenses ordered.
   If the wanted subscription is not included in the list, check with VIDA Admin to see if the subscription has been activated.

5. Click NEXT to add a user to the subscription.
   → A user must be registered both in SPS or ESA and in VIDA Admin to be included in the list.

6. Select user in the list by ticking a box. If the user is shaded he/she has already been added to the subscription.

7. Click FINISH REGISTRATION to receive a confirmation that the registration is complete.
   → The registration is completed.

8. Click BACK TO VIDA LOGIN PAGE.
   → The user can log in to VIDA once the central system has updated the subscription information.
8.1.2 Deregistering a VIDA All-in-one
1. The VIDA Administrator must carry out registration. Internal access is required for VIDA All-in-one.
   Go to the start page and select PERFORM COMPUTER SETTINGS.
   → The window for managing settings opens.
2. Select DEREGISTER LOCAL CLIENT in the new window.
   → When this function is done the user is logged out and VIDA All-in-one is removed. To ensure that VIDA All-in-one is deregistered, this must be done in VIDA Admin. If VIDA All-in-one starts again, the machine will be registered again.
   If VIDA All-in-one cannot establish contact with VIDA Admin, an error message is shown and VIDA All-in-one remains registered.

8.1.3 See remaining time for a subscription
1. Go to the start page and select PERFORM COMPUTER SETTINGS.
   → The number of remaining days is shown.

8.1.4 Select subscription
1. Log in
   → If the user has several subscriptions for VIDA All-in-one or for VIDA on Web, a page is opened where the user selects a subscription.
2. Select a subscription in the list.
   → The selected subscription is used to filter what information and functionality for which the user has authorization.

8.2 Error message when logging in
This is not a complete list of error messages, other error messages may appear.
1. A valid subscription is missing when logging in.
   → If the user does not have a valid subscription a special message is shown when logging in. There may be several causes:
   The subscription time has run out.
   The VIDA Administrator has deregistered the user and/or deleted the user from the subscription.
   VIDA All-in-one is deregistered.
2. Contact your local VIDA Administrator who can look in VIDA Admin to see what has happened. This must be carried out before contacting support.
   If VIDA All-in-one is gone it must be registered again. Removed users can be added again (security account name can be reused). If the subscription has expired a new one must be purchased.

8.3 Vehicle profile

8.3.1 Create a manual vehicle profile
The vehicle’s profile can be defined manually using model, year and chassis number.
1. The vehicle's profile is entered manually:
   - Model
   - Year
   - Chassis number
   - Click OK
   \(\Rightarrow\) VIDA will show the following information about the vehicle:
   - Model
   - Year
   - Chassis number
   - Picture of the car model

2. To get further vehicle information click on VEHICLE DETAILS.
   This requires a connection to other IT systems; contact the local helpdesk if the connection does not work.
   For more information about VEHICLE DETAILS, see chapter 4.2 Vehicle Details on page 19.

8.3.2 Create a manual vehicle profile, decode VIN

1. Enter the vehicle's VIN in the VIN field on the tab VEHICLE PROFILE.
   \(\Rightarrow\) VIDA will show the following information about the vehicle:
   - VIN
   - Model
   - Year
   - Chassis number
   - Engine
   - Transmission (some Partner Group only)
   - Picture of the car model

2. To get further vehicle information click on VEHICLE DETAILS.
   This requires a connection to other IT systems; contact the local helpdesk if the connection does not work.
   For more information about VEHICLE DETAILS, see chapter 4.2 Vehicle Details on page 19.
8.3.3  Get a vehicle profile from previously read out cars

1. Select a car from the list with the latest identified cars on the VEHICLE PROFILE tab.

   > VIDA displays the following information:
     - VIN
     - Model
     - Year
     - Chassis number
     - Engine
     - Transmission (some Partner Group only)
     - Picture of the car model

2. To get further vehicle information click on VEHICLE DETAILS.

   For more information about VEHICLE DETAILS, see chapter 4.2 Vehicle Details on page 19.

8.3.4  Create a vehicle profile from license plate number

   **NOTE**
   Requires connection to a DMS.

1. Enter an existing license plate number.
   Select retrieve from DMS.
   > DMS responds with the following information:
     - VIN
   VIDA displays the following information:
     - VIN
     - Model
     - Year
     - Chassis number
     - Engine
     - Transmission (some Partner Group only)
     - Picture of the car model

2. Click OK.
   > Vehicle profile is presented in the title line at the top of the window.
   The system adds the vehicle profile to the list with Latest identified vehicles.

8.3.5  Create a vehicle profile from repair order number

   **NOTE**
   Requires connection to a DMS.
1. Enter an existing repair order number.  
   Select RETRIEVE FROM DMS.  
   → DMS responds with the following information:  
     - VIN  
     VIDA displays the following information:  
     - VIN  
     - Model  
     - Year  
     - Chassis number  
     - Engine  
     - Transmission (some Partner Group only)  
     - Picture of the car model  

2. Click OK.  
   → Vehicle profile is presented in the title line at the top of the window.  
   The system adds the vehicle profile to the list with Latest identified vehicles.

8.3.6 Read out vehicle profile using vehicle communication  
1. Select a communication tool in the Communication tool drop-down list.  
2. Click on READ VEHICLE.  
   → VIDA indicates that communication is established to the vehicle via DiCE.  
   VIDA displays the following information:  
   - VIN  
   - Model  
   - Year  
   - Chassis number  
   - Engine  
   - Transmission (some Partner Group only)  
   - Picture of the car model  
   Vehicle profile is presented in the title line at the top of the window.  
   The system adds the vehicle profile together with the associated communication tool to the list with Latest identified vehicles.

8.4 Reading information under the tab INFORMATION  
1. Select the wanted information type in the drop-down menus, for example REPAIR → REMOVAL, REPLACEMENT AND INSTALLATION.  
   → VIDA shows the navigation tree with the wanted information.  
2. Navigate in the tree structure to the wanted information.  
   → VIDA shows the document that is relevant for the selected vehicle profile, with vehicle profile data as a part of the document title.  
3. Select the wanted document.  
   → VIDA shows the document and closes the navigation tree.  
   Navigation to document at the same level in the document structure can be performed by clicking on the forward or back arrows.
8.4.1 Navigating "horizontally"

1. Select an information type in the drop down menus.
   → VIDA finds the same function group level, but under the new information type. Titles that match the selected vehicle model are shown in the navigation tree.

2. Select a document.
   → VIDA shows the document.

8.4.2 Navigating "vertically"

1. From a document, click on the back (<<) and forward (>>) buttons. These buttons can only be clicked if there is a document to go to.
   → VIDA shows the document.

8.5 TIE

8.5.1 Reading Technical Journals in TIE

   **NOTE**
   Only applies for users with access to TIE.

1. Click on Technical Journals.
   → TIE shows search result based on information from VIDA about function group and vehicle profile.

2. End the session by closing the TIE window.
   → You are back in VIDA where you left the system.

8.5.2 Reporting errors in TIE

   **NOTE**
   Only applies for users with access to TIE. When TIE is not in use or not accessible errors are reported via e-mail.
1. Click the **REPORT TO TIE** button in VIDA.
   → VIDA calls on TIE to get a list of allowed Concern Areas for this user.
   TIE sends back the list and informs VIDA which log files are needed.
   VIDA shows the user which Concern Areas are available.

2. Choose a Concern Area.
   → VIDA automatically finds the relevant information and log files and creates
     a compressed folder that is sent to TIE.
   VIDA calls on TIE. TIE opens up. (No login required since Web Single Login
     has been implemented).
   TIE asks the user for Sub Concern Area (if needed).

3. Choose a Sub Concern Area (if needed).
   → TIE opens the report template.
     The required log files are automatically attached.
     The information that VIDA sent is input in the correct fields.

4. The user can start to write the report.

8.5.3 Read Technical Journals for CSC (Customer Symptom Codes)
1. Select VEHICLE PROFILE or read out VIN and add CSC.
2. Click on TECHNICAL JOURNALS.
   → The window for TIE opens. If there are technical journals that belong to
     added CSC, they are shown.
3. Close TIE by clicking Log out.
   → TIE closes, VIDA is visible again.

8.5.4 Report CSC (Customer Symptom Codes) error to TIE
1. Click REPORT TO TIE.
   → A new window opens.
2. Select Concern Area Vehicle report to TIE and click **CONTINUE**.
   → Current CSC are displayed if there are more than one. Only one of the CSC
     can be sent per report.
3. Fill in the form.
4. Send the report to TIE.

8.5.5 Read Technical Journals for DTC (Diagnostic Symptom Code)
1. Select VEHICLE PROFILE or read out VIN and add CSC.
2. Go to the DIAGNOSTIC tab
   → VIDA collects information about the car.
3. Click on TECHNICAL JOURNALS.
   → The window for TIE opens. If there are technical journals that belong to
     read out DTCs, they are shown.
4. Close TIE by clicking Log out.
   → TIE closes, VIDA is visible again.
8.6 **CSC (Customer Symptom Codes)**
For instructions about how to add CSC:s from the tree structure, see chapter 5.4.4.2.1
*Add CSC from the CSC tree on page 37*

8.6.1 To retrieve CSC (Customer Symptom Codes), with DMS
1. Enter the repair order number in the text field and select RETRIEVE FROM...
   → VIN is retrieved from DMS.
2. Select work order.
3. Click the CSC tab if several CSC are to be added.
   → Tree structure with CSC is displayed.
4. Click on the heading in the tree structure to find the correct CSC.
   → More detailed information is displayed by clicking on a heading.
5. Mark one or more CSC that are to be added.
   → CSC can also be searched for using the search function in VIDA.
6. Click on ADD LIST.
   → CSC are added under the WORK LIST tab.
7. Click the WORK LIST tab.
   → The added codes are displayed. New codes can also be added by using the search function in the WORK LIST tab.
   → CSC can be removed by marking the check box and clicking DELETE.
8. Update DMS by clicking SEND LIST TO...
   → A new window opens.
9. Enter required information and click SEND LIST TO...

**NOTE**
The registration number must already be filled in under the VEHICLE PROFILE tab.

→ DMS verifies with a message in VIDA.

8.7 **Parts**
For instructions about how to add parts from the Parts Catalog, see chapter 5.4.4.3.2
*Adding parts from the Parts Catalog on page 40.*

For instructions about how to import a Work List, see chapter 5.4.8.2 Importing a parts or work list under the tab WORK LIST on page 45.
8.7.1 Get the corresponding exchange parts number

1. Select vehicle profile.
2. Choose the SEARCH tab.

Fig. 52 Perform the search

- 1. The three asterisks (***)) indicates that the search should include all articles.
- 2. Enter a production number here to find all notes that include this production number.
- 3. When a search is performed the result is shown here.

Fig. 53 The search result

- 1. Function group 99 indicates that the article is in the cross index.
- 2. This is the spare part number (exchange number) that is linked to the production number 31202212.
- 3. All production numbers linked to the spare part number 36000792 are shown in this field.

It is recommended that an additional search is performed to find any additional information for the spare part.
4. **Fig. 54**

- 1. Search for the spare part number 36000792 in the spare part catalog, to see if this search yields any results, apart from the cross index.

- 2. In this example, the spare part number is also found in function group 642. By clicking the link under Vehicle profile, a document will open that contains more information about the steering gear.

5. **Fig. 55**

- 1. The spare part number is not superseded and it can be ordered.
8.8 Fault tracing

8.8.1 Reading out vehicle/showing details
1. Select the communication tool, which is connected to the vehicle, in the Communication tool drop-down list on the VEHICLE PROFILE tab.
2. Click on READ VEHICLE.
   → VIDA indicates that communication is established to the vehicle via the communication tool.
3. Select the DIAGNOSTICS tab.

   **NOTE**
   The DIAGNOSTICS tab will be disabled if another vehicle uses the tab.

   → VIDA shows step 1 in the diagnostic flow: Details.
   VIDA indicates if vehicle communication works and shows battery voltage as well as the vehicle's key position.
   If there are deviations when reading out the vehicle, these will be shown by the forward arrow for NETWORK and FAULT TRACE change color to orange.

8.8.2 Troubleshooting the vehicle's network
1. Click NETWORK under the DIAGNOSTICS tab.
   → VIDA shows step 2 in the diagnostic flow network. An image shows all control modules in the vehicle.
   Green – Control Module responsive to communication;
   Red – Control Module does not respond to communication;
   Gray – Control Module is not part of the vehicle configuration. (They may, however, be in the relevant vehicle model).
2. Select a green or orange control module in the image.
   → VIDA presents information about the control module. Any diagnostic trouble codes (DTCs) are shown and it is checked that it answers and functions as it should.
   VIDA also shows related information in the form of links to documents:
   - Design and function
   - Component location
   - General diagnostics and tests
   - Specifications electrical/electronics
   - Specifications, other
   VIDA displays information about the selected control module:
   - Serial number
   - Hardware number
   - Software number (1-4 depending on control module)
   - Diagnostic Version
8.8.3 Fault-tracing using Diagnostic Trouble Codes

1. Go to DIAGNOSTICS \(\rightarrow\) FAULT TRACE.

   \[\rightarrow\] If one or more CSC has been selected, VIDA defaults to the Selected CSC tab. If no CSC has been selected, VIDA defaults to the Unselected CSC tab. In both cases VIDA shows the Vehicle Graphic, reads DTCs and their relationship to CSC.

   Green – Control Module has a relation to selected CSC but no fault found by the DTC test.

   Red – Control Module has a relation to selected CSC and DTC is found active.

   Yellow – Control Module has a relation to selected CSC but DTC is found not active.

   White - Control Module has no relation to selected CSC.

   Grey – Control Module not part of the vehicle configuration or not responsive to communication.

   DTC Prefix, Code and description

2. Select Delivery

   \[\rightarrow\] VIDA reads out all DTCs and shows them with their current status.

3. Select ERASE ALL if you would like to erase all DTCs in the vehicle.

   If you only would like to erase DTCs from an individual Control Module select the specific Control Module in the Vehicle Graphic e.g. CCM. This will enable the option ERASE CCM that will erase DTCs in the selected Control Module only.

   \[\rightarrow\] VIDA erases the Diagnostic Trouble Codes. After erasing, VIDA will ask you to start the vehicle twice before a new read out is performed.

4. Select READ ALL diagnostic trouble codes.

   \[\rightarrow\] A new read out can be performed on all control modules.

8.8.4 Troubleshooting using vehicle communication – parameters

1. Go to DIAGNOSTICS \(\rightarrow\) VEHICLE COMMUNICATION.

   \[\rightarrow\] VIDA shows the page Vehicle communication.

   The Parameters tab is active (preselected).

2. Select a control module in the illustration.

   \[\rightarrow\] VIDA displays the name and prefix of the selected control module.

   A list of all the parameters which can be read off from the relevant control module is displayed in the left hand column.

3. Select a parameter in the list.
4. Click on **ADD TO LIST**.
   - The selected parameter is added to the list in the right hand column.
   - Up to 10 parameters can be added at a time. An error message will be shown if the maximum number is exceeded.
   - One or several parameters can be removed from the list by clicking **REMOVE FROM LIST**.

5. Click **ENLARGE**.
   - The selected parameters are displayed enlarged in a separate window.

6. Click **CLOSE**.
   - The window closes. VIDA returns to the **VEHICLE COMMUNICATION** tab.

8.8.5 Fault-tracing using vehicle communication – parameters, graphic display

1. Go to **DIAGNOSTICS → VEHICLE COMMUNICATION**.
   - VIDA shows the page Vehicle communication.
     - The Parameters tab is active (preselected).

2. Select a control module in the illustration.
   - VIDA displays the name and prefix of the selected control module.
     - A list of all the parameters which can be read off from the relevant control module is displayed in the left hand column.

3. Select a parameter in the list.

4. Click on **ADD TO LIST**.
   - The selected parameter is added to the list in the right hand column.
   - Up to 10 parameters can be added at one time. An error message will be shown if the maximum number is exceeded.
   - One or several parameters can be removed from the list by clicking **REMOVE FROM LIST**.

5. Click **OPEN GRAPHIC DISPLAY**.
   - VIDA displays the parameters in graphic mode with the five first parameters prechecked. If more than five parameters are selected they will not be prechecked.

6. Click **START**.
   - Selected parameters are displayed graphic mode (assuming functioning vehicle communication).

7. Click **AUTO RANGE**.
   - VIDA shows the lowest respectively highest values for the selected parameter.

8. Click **GRID**.
   - Grid is displayed.

9. Click **ZOOM IN**.
   - Time factor on the display is halved in relation to the standard value.

10. Click **ZOOM IN**.
    - The time factor on the display is reduced by a factor of 3 in relation to the standard value.
11. Click ZOOM IN.
   → The time factor on the display is reduced by a factor of 4 in relation to the standard value.

12. Click ZOOM OUT three times.
   → Time factor reset to the standard value.

13. Click CLEAR DISPLAY.
   → VIDA restarts display of the selected parameters.

14. Click STOP.
   → The selected parameter values are frozen.

15. Click CLOSE.
   → The window closes. VIDA returns to the VEHICLE COMMUNICATION tab.

8.8.6 Fault-tracing using vehicle communication – activations
1. Go to DIAGNOSTICS → VEHICLE COMMUNICATION.
   → VIDA shows the page Vehicle communication.
      The Parameters tab is active (selected).

2. Select the Activations tab.
   → The Activations tab is displayed.

3. Select a control module in the illustration.
   → VIDA displays the name and prefix of the selected control module.
     A list of all the parameters which can be read off from the relevant control module is displayed in the left hand column.

4. Select a parameter in the list.
   → Selected parameters are displayed in the right hand column/list.

5. Click START.
   → Activation of the selected unit in the vehicle starts (if vehicle communication works). The value for the parameter is displayed.

6. Click STOP.
   → Activation stops.

8.8.7 Describing the control modules as reference material
1. Go to DIAGNOSTICS → VEHICLE COMMUNICATION.
   → VIDA shows the page Vehicle communication.
      The Parameters tab is active.

2. Select a control module in the illustration.
   → VIDA displays the name and prefix of the selected control module.
      A list of all the parameters which can be read off from the relevant control module is displayed in the left hand column.

3. Select a parameter in the list and click on DESCRIPTION.
   → Description of the selected control module is displayed in a separate window. The description can be printed by clicking PRINT.
8.9 Software

8.9.1 Purchasing and downloading software, for dealers

NOTE
Applies to dealers.

1. Select vehicle.
   → The vehicle can be selected in any of the following ways:
     - Read in VIN (under VEHICLE PROFILE or SOFTWARE tab)
     - Enter VIN (under VEHICLE PROFILE or SOFTWARE tab)
     - Select a vehicle in the list (under VEHICLE PROFILE tab)
     - Select vehicle under the SOFTWARE tab, see chapter 8.9.5 Switch between vehicles on page 119.

2. Select software product.
   → The following alternatives are available:
     - Select software product from the parts catalog
     - Select software product from the list
     - Enter software product number manually
     - Retrieve a software order.
     - Enter unknown software product number
     Repeat this when purchasing several software products for the same vehicle.
     To remove a software product from the list, see chapter 8.9.10 Remove software product from the list on page 120.

3. Enter order reference.

4. Click on ADD.
   → The Software product is added to the SOFTWARE LIST.

5. Select PURCHASE.
   → The software product’s status changes.
   To cancel the purchase, see chapter 8.9.11 Revoke a software purchase on page 120.

6. Select CONTINUE.
   → A unique vehicle download tab for the corresponding vehicle will be created.
7. Select **START** to begin the download.

**NOTE**

The following must be fulfilled before the **START** button is enabled:

- The communication tool connected to the vehicle.
- The voltage in the vehicle is above 11 V.
- Bluetooth strength is sufficient (DiCE only).

**NOTE**

In order to prevent VIDA from closing down during a software download, the **LOG OUT** button will become disabled until the download has been completed.

If a control module does not respond after start of downloading, see chapter 8.9.14 Negative result when verifying the programming command on page 121.

8. As soon as a software download has been initiated for a vehicle, another software download can be started from the tab **SOFTWARE LIST**, if DiCE is used as communication tools and there is a software package available.

**NOTE**

Up to three parallel software download sessions can be initiated.

9. If as part of the software download, a diagnostic script needs to be executed (e.g. calibration of the Climate Control Module) in a vehicle download tab that is not active, VIDA will highlight, in yellow, the vehicle download tab in question.

When a highlighted (yellow) vehicle download tab is selected, the diagnostic script will be shown in a "pop-up" so the user can follow the instructions.

10. When the software download sequence has been completed the vehicle download tab will indicate 100%. Vehicle download tabs which are inactive will be highlighted in green.

11. The **OK** button will close the vehicle download tab. The association between the vehicle and the DiCE will be released so that the DiCE can be used on another vehicle.
8.9.2 Read VIN

1. Select the VEHICLE PROFILE tab or the SOFTWARE tab.
2. Select the communication tool that is connected to the vehicle from the Communication tool drop-down list.
3. Read VIN directly from the vehicle by clicking READ VEHICLE.
   → VIN is decoded and VIDA shows:
      - VIN number
      - Model
      - Model year
      - Engine (VEHICLE PROFILE tab only)
      - Transmission (VEHICLE PROFILE tab, some Partner Group only)
4. Select the SOFTWARE tab if VIN is read in the VEHICLE PROFILE tab.
   → The vehicle’s profile is enclosed.

NOTE

Up to 4 vehicles can be connected to VIDA All-in-one at a time. One can switch between the vehicles by selecting communication tool from the Communication tool drop-down list. One can also switch vehicle by highlighting a row in the SOFTWARE LIST or by selecting one of the unique vehicle software download tabs.

8.9.3 Enter VIN

1. Enter VIN manually in the SOFTWARE tab or VEHICLE PROFILE.
   → VIN is decoded and VIDA shows:
      - VIN number
      - Model
      - Model Year
2. Select the SOFTWARE tab if VIN is entered in the VEHICLE PROFILE tab.
   → The vehicle’s profile is enclosed.
8.9.4 Select a vehicle in the list
1. Select the VEHICLE PROFILE tab.
   → Under the tab VEHICLE PROFILE, a list of the Latest identified vehicles is shown.
2. Select vehicle profile in the list.
   → VIDA shows information about the vehicle.
3. Select the SOFTWARE tab.
   The read-out vehicle's profile is enclosed.
   
   **NOTE**
   Up to 4 vehicles can be connected to VIDA All-in-one at a time. One can switch between the vehicles by selecting communication tool from the Communication tool drop-down list. One can also switch vehicle by highlighting a row in the SOFTWARE LIST or by selecting one of the unique vehicle software download tabs.

8.9.5 Switch between vehicles
1. Select the SOFTWARE tab.
2. Switch between vehicles by:
   - selecting communication tool from the Communication tool drop-down list
   - highlight a row in the SOFTWARE LIST
   - select one of the unique vehicle software download tabs.
   
   **NOTE**
   Up to 4 vehicles can be connected to VIDA All-in-one at a time.

8.9.6 Select software product from the parts catalog
1. Select the INFORMATION tab.
2. Select the sub-menu Parts → Parts Catalog.
   → Parts for the vehicle profile in question are shown.
3. Select software product (software product is marked with SW in the PS column in the parts table) and ADD TO LIST.
   → The software product is transmitted to the selected parts list.
4. Select WORK LIST, click ADD ALL SW.
   → The software product is sent to the software list with status initialized.
5. Select the SOFTWARE tab.
   → The software product is in the SOFTWARE LIST.
8.9.7 Select software product from the Software list
1. Select the symbol for scrolling (...) under the tab SOFTWARE.
   ➔ A dialog box with software products opens. Only software products available for the selected vehicle model are shown.
2. Select software product and click ADD.
   ➔ The software product is sent to the SOFTWARE LIST tab with status Initialized.

8.9.8 Enter software product number manually
1. Enter software product number.
2. Select ADD.
   ➔ The software product is sent to the SOFTWARE LIST tab with status Initialized.

8.9.9 Retrieve a software order
1. Select QUERY ORDER.
   ➔ VIDA displays a list of available orders.
2. Highlight the row and select ADD TO LIST.
   ➔ The software product is sent to the SOFTWARE LIST with status Initialized.
3. Select RETRIEVE.
   ➔ The status of the software product changes.

8.9.10 Remove software product from the list
1. Select software product to be removed.
2. Select REMOVE.
   ➔ The selected row is deleted or moved to DOWNLOAD HISTORY depending on the status of the row.

8.9.11 Revoke a software purchase

   **NOTE**
   
   Applies to dealers.

1. Select row with status Available.
2. Select REVOKE.
   ➔ VIDA shows communication with PIE.
   Status Canceled is shown. The purchase has been revoked.
8.9.12 Downloading software to the vehicle
1. Select software with status Available.
   → VIDA selects information about vehicle, order, status and software.
       Downloading is made possible.
2. Select CONTINUE.
   → A unique vehicle download tab for the corresponding vehicle will be
       created.
3. Select START to begin the download.
   → VIDA shows status of the download during the time.

8.9.13 New order in case of non-matching vehicle configuration
1. If VIDA complaints that the vehicle configuration stored in PIE does not match
   the actual vehicle configuration, after started download to a vehicle, a retrieval
   of the software product must be performed.
   → VIDA asks if a new order of the software product must be performed.
2. Select RETRIEVE.
   → The dialog box closes and a new package is ordered from PIE.
3. Select RETRIEVE.
   → The status of the software product changes.

8.9.14 Negative result when verifying the programming command
1. One of the vehicle's control modules does not respond to programming
   command after downloading to vehicle has started.
   → VIDA shows a dialog box with instructions on how to proceed to solve the
       issue.
2. Follow the instructions.
   → VIDA shows if the control module responds to programming command or
       not.
3. When the control module responds, select Continue and continue the down-
   load.
   → Downloading is resumed.
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABL</td>
<td>Active BI-xenon lights</td>
</tr>
<tr>
<td>ABS</td>
<td>Anti-lock brakes</td>
</tr>
<tr>
<td>AC</td>
<td>With air conditioning</td>
</tr>
<tr>
<td>ACC</td>
<td>With automatic climate control</td>
</tr>
<tr>
<td>ACM</td>
<td>Alternator Control Module</td>
</tr>
<tr>
<td>ADM</td>
<td>Additive Dosing Module</td>
</tr>
<tr>
<td>AEM</td>
<td>Accessory Electronic Module</td>
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<tr>
<td>AFM</td>
<td>AM/FM Tuner Module</td>
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<tr>
<td>ALTER</td>
<td>Alternative</td>
</tr>
<tr>
<td>AMP</td>
<td>Amplifier</td>
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<td>AQS</td>
<td>Air Quality Sensor</td>
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<tr>
<td>ASM</td>
<td>Air Suspension Module</td>
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<tr>
<td>AT</td>
<td>Automatic transmission</td>
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<tr>
<td>ATM</td>
<td>Control module antenna (Antenna Module)</td>
</tr>
<tr>
<td>AUD</td>
<td>Control module audio (Audio Module)</td>
</tr>
<tr>
<td>AUM</td>
<td>Control module audio (Audio Module)</td>
</tr>
<tr>
<td>AUTO.TRANS</td>
<td>Automatic transmission</td>
</tr>
<tr>
<td>AUX</td>
<td>Auxiliary equipment input</td>
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<td>AWD</td>
<td>Four-wheel drive</td>
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<td>AYC</td>
<td>Active Yaw Control Sensor</td>
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<tr>
<td>BCM</td>
<td>Brake Control Module</td>
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<tr>
<td>BLIS</td>
<td>Blind Spot Information System</td>
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<tr>
<td>BMM</td>
<td>Battery Management Module</td>
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<td>BODY –XXXX</td>
<td>Up to and incl. body number</td>
</tr>
<tr>
<td>BODY XXXX–</td>
<td>FROM and incl. body number</td>
</tr>
<tr>
<td>BSC</td>
<td>Body Sensor Cluster</td>
</tr>
<tr>
<td>CARB</td>
<td>Carburetor engine</td>
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<tr>
<td>CC</td>
<td>With cruise control</td>
</tr>
<tr>
<td>CCA</td>
<td>Cold Cranking Amperes</td>
</tr>
<tr>
<td>CCM</td>
<td>Climate Control Module</td>
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<tr>
<td>CD</td>
<td>Compact disc</td>
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<td>CEM</td>
<td>Central Electronic Module</td>
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<td>Up to and incl. chassis number</td>
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<td>FROM and incl. chassis number</td>
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<td>CH APP –XXXX</td>
<td>Up to and incl. chassis number around</td>
</tr>
<tr>
<td>CH APP XXXX–</td>
<td>From and incl. chassis number around</td>
</tr>
<tr>
<td>CHMSL</td>
<td>Extra brake light</td>
</tr>
<tr>
<td>CH TYPE</td>
<td>Chassis type</td>
</tr>
<tr>
<td>CLS</td>
<td>Central locking system</td>
</tr>
<tr>
<td>CNG</td>
<td>Compressed natural gas</td>
</tr>
<tr>
<td>COAX</td>
<td>Coaxial cable</td>
</tr>
<tr>
<td>CODE</td>
<td>Code (upholstery code, color code)</td>
</tr>
<tr>
<td>COMBU</td>
<td>Heater can be combined with air conditioning</td>
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<tr>
<td>COMPL</td>
<td>Complete</td>
</tr>
<tr>
<td>CPM</td>
<td>Control module auxiliary heater (Combustion Preheater Module)</td>
</tr>
<tr>
<td>CRB</td>
<td>Central Relay Box</td>
</tr>
<tr>
<td>CRM</td>
<td>Control module convertible roof (Convertible Roof Module)</td>
</tr>
<tr>
<td>CSC</td>
<td>Customer Symptom Codes</td>
</tr>
<tr>
<td>CSPEAK</td>
<td>Centrally-mounted speaker</td>
</tr>
<tr>
<td>CVT</td>
<td>Continuous, variable transmission</td>
</tr>
<tr>
<td>CYL</td>
<td>Cylinder</td>
</tr>
<tr>
<td>DDM</td>
<td>Control module driver door (Driver Door Module)</td>
</tr>
<tr>
<td>DEM</td>
<td>Control module four-wheel drive (Differential Electronic Module)</td>
</tr>
<tr>
<td>DIM</td>
<td>Combination instrument (Driver Information Module)</td>
</tr>
<tr>
<td>DMM</td>
<td>Control module damper motor (Damper Motor Module)</td>
</tr>
</tbody>
</table>
DMS – Dealer Management System
DPF – Diesel particle filter
DRL – Daylight running lights
DSA – Anti-spin system
DSA – Dealer Self Administration
DSL – Diesel
DSTC – Dynamic stability control system
DVD – Digital Versatile Disc
ECC – Electronic climate control
ECM – Engine Control Module
EGR – Exhaust gas return
EJB – Engine Junction Box
EVAP – Evaporative emission system
ENG –XXXX – Up to and incl. engine number
ENG XXXX– – From and incl. engine number
EPS – Power steering
      – Electrical Power Steering Module
ETC – Electronic traction control
ETC – Electronic Temperature Control
ETM – Control module throttle damper (Electronic Throttle Module)
EXC – Excluding
FC – Factory code
FI XXX – Function-ID
FI – Fuel injection
F.S.B. – Seatbelt without rollers
F.STAB – Front anti-roll bar
GDI – Gasoline Direct Injection
GDL – Gas Discharge Lamp
      – Gas Discharge Lamp Module
GPS – Global Positioning System
      – Global Positioning System Module
GSM – Gear selector
      – Gear Selector Module
H.L.WIPER – Headlamp wiper
IAM – Integrated Audio Module
I.DIA – Diameter, inner
ICM – Infotainment Control Module
IN.BELT – Seatbelt with rollers
INCL – Including
INTERCOOLER – With intercooler
ISG – Control module integrated starter motor and generator (Integrated Starter Generator)
ISM – Inclination Sensor Module
KVM – Keyless Vehicle Module
LCM – Left Camera Module
LDM – Left Rear Door Module
LG – Length
LH – Left
LHD – Left-hand drive
LHT – Left-hand traffic
LPG – Liquefied petroleum gas
LSM – Light Switch Module
MAN.TRANS – Manual transmission
MARKED – Marked with
MC – Market Code
MD – Mini Disk
MMM – Multimedia Module
MMS – Mass Movement Sensor Module
MPM – Media Player Module
<table>
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<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>MP1</td>
<td>– MD Player Module</td>
</tr>
<tr>
<td>MP2</td>
<td>– CD Player Module</td>
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<td>MW</td>
<td>– Mechanical windows</td>
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<td>NVM</td>
<td>– Night Vision Module</td>
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<tr>
<td>O.DIA</td>
<td>– Diameter, outer</td>
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<tr>
<td>OPTIC</td>
<td>– Fiber optics</td>
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<td>– Oversize</td>
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<td>ORS</td>
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<td>– Pieces</td>
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<td>– Pre Delivery Inspection</td>
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<td>– Passenger Door Module</td>
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<tr>
<td>PHM</td>
<td>– Phone Module</td>
</tr>
<tr>
<td>PIE</td>
<td>– Product Information Exchange, a VCC-system</td>
</tr>
<tr>
<td>PS</td>
<td>– Power steering</td>
</tr>
<tr>
<td>PSM</td>
<td>– Power Seat Module</td>
</tr>
<tr>
<td>PTC</td>
<td>– Positive Temperature Control</td>
</tr>
<tr>
<td>PW</td>
<td>– Power windows</td>
</tr>
<tr>
<td>RATIO</td>
<td>– Ratio</td>
</tr>
<tr>
<td>R.AX</td>
<td>– Rear axle</td>
</tr>
<tr>
<td>RCM</td>
<td>– Right Camera Module</td>
</tr>
<tr>
<td>RDM</td>
<td>– Right Rear Door Module</td>
</tr>
<tr>
<td>REM</td>
<td>– Rear Electronic Module</td>
</tr>
<tr>
<td>REPL</td>
<td>– Replaced by</td>
</tr>
<tr>
<td>RH</td>
<td>– Right</td>
</tr>
<tr>
<td>RHD</td>
<td>– Right-hand drive</td>
</tr>
<tr>
<td>RHT</td>
<td>– Right-hand traffic</td>
</tr>
<tr>
<td>R.R</td>
<td>– Raised roof</td>
</tr>
<tr>
<td>R.STAB</td>
<td>– Rear stabilizer</td>
</tr>
<tr>
<td>RKE</td>
<td>– Receiver keyless vehicle (Remote Keyless Entry)</td>
</tr>
<tr>
<td>RRW</td>
<td>– Run off road warning</td>
</tr>
<tr>
<td>RRX</td>
<td>– Remote Receiver Module</td>
</tr>
<tr>
<td>RSC</td>
<td>– Roll Stability Control</td>
</tr>
<tr>
<td>RSE</td>
<td>– Rear Seat Entertainment Module</td>
</tr>
<tr>
<td>RSM</td>
<td>– Rain Sensor Module</td>
</tr>
<tr>
<td>RTI</td>
<td>– Road Traffic Information Module</td>
</tr>
<tr>
<td>RULO EVAP</td>
<td>– Continuously functioning evaporation system</td>
</tr>
<tr>
<td>SAS</td>
<td>– Steering wheel angle sensor</td>
</tr>
<tr>
<td>SCL</td>
<td>– Steering Column Lock Module</td>
</tr>
<tr>
<td>SCM</td>
<td>– Siren Control Module</td>
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<tr>
<td>SCU</td>
<td>– Start Control Module</td>
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<tr>
<td>SEE FIG</td>
<td>– See position</td>
</tr>
<tr>
<td>SHM</td>
<td>– Seat Heating Module</td>
</tr>
<tr>
<td>SPCL</td>
<td>– Special version</td>
</tr>
<tr>
<td>S.R</td>
<td>– Sun roof</td>
</tr>
<tr>
<td>SRM</td>
<td>– Sun Roof Module</td>
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<tr>
<td>SRS</td>
<td>– Supplementary Restraint System Module</td>
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<td>STD</td>
<td>– Standard version</td>
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<td>STD.DIM</td>
<td>– Standard dimension</td>
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<td>SUB</td>
<td>– Subwoofer</td>
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<td>SUM</td>
<td>– Suspension Module</td>
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<td>Abbreviation</td>
<td>Description</td>
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<td>S.W</td>
<td>Station wagon</td>
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<tr>
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<td>Steering Wheel Module</td>
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<td>SWSL</td>
<td>Steering Wheel Switch Left</td>
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<tr>
<td>SWSR</td>
<td>Steering Wheel Switch Right</td>
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<td>TACDIS</td>
<td>Dealer Management System in Sweden</td>
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<td>TCM</td>
<td>Transmission Control Module</td>
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<td>THK</td>
<td>Thickness</td>
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<td>Technical Information Exchange, a VCC-system</td>
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<td>Traction control system</td>
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<td>Transmission</td>
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<td>TRANS – XXXX</td>
<td>Up to and incl. transmission number</td>
</tr>
<tr>
<td>TRANS XXXX–</td>
<td>From and incl. transmission number</td>
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<tr>
<td>TRM</td>
<td>Trailer Module</td>
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<tr>
<td>TWC</td>
<td>Three way catalytic converter</td>
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<td>UEM</td>
<td>Upper Electronic Module</td>
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<td>US</td>
<td>Undersize</td>
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<tr>
<td>VAC EVAP</td>
<td>Vacuum-controlled return system fuel vapors (see EVAP)</td>
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<td>VCC</td>
<td>Volvo Car Corporation</td>
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<td>VVT</td>
<td>Variable valve timing</td>
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<tr>
<td>WI</td>
<td>Width</td>
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<td>WMM</td>
<td>Wiper Motor Module</td>
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<td>WRG</td>
<td>Water-repellent glass</td>
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<td>WSL</td>
<td>Web Single Login</td>
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<tr>
<td>W/O</td>
<td>Without</td>
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<tr>
<td>2VVT</td>
<td>Double variable valve timing</td>
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<td>Gasoline engine 4 cylinder</td>
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<td>5CYL</td>
<td>Gasoline engine 5 cylinder</td>
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<td>6CYL</td>
<td>Gasoline engine 6 cylinder</td>
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<td>5 door car</td>
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<tr>
<td>2 VALVE</td>
<td>2 valves/cylinder</td>
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<tr>
<td>4 VALVE</td>
<td>4 valves/cylinder</td>
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<td>Two-wheel drive</td>
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# 10 UNITS

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<td>A</td>
<td>Ampere</td>
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<tr>
<td>Ah</td>
<td>Ampere hours</td>
</tr>
<tr>
<td>C</td>
<td>Celsius</td>
</tr>
<tr>
<td>cm</td>
<td>Centimeter</td>
</tr>
<tr>
<td>gallon UK</td>
<td>1 gallon (UK) = 4.546 liters</td>
</tr>
<tr>
<td>gallon US</td>
<td>1 gallon (US) = 3.785 liters</td>
</tr>
<tr>
<td>h</td>
<td>Hour</td>
</tr>
<tr>
<td>hp</td>
<td>Horsepower, 1 hp = 0.7355 kW</td>
</tr>
<tr>
<td>inch</td>
<td>1 inch = 2.54 cm</td>
</tr>
<tr>
<td>km</td>
<td>Kilometer</td>
</tr>
<tr>
<td>km/h</td>
<td>Kilometer per hour</td>
</tr>
<tr>
<td>kW</td>
<td>Kilowatt</td>
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<tr>
<td>l</td>
<td>Liter</td>
</tr>
<tr>
<td>m</td>
<td>Meter</td>
</tr>
<tr>
<td>mm</td>
<td>Millimeter</td>
</tr>
<tr>
<td>mm²</td>
<td>Square millimeters</td>
</tr>
<tr>
<td>mph</td>
<td>Miles per hour, 1 mph = 1.6 km/h</td>
</tr>
<tr>
<td>N</td>
<td>Newton</td>
</tr>
<tr>
<td>Nm</td>
<td>Newton meter</td>
</tr>
<tr>
<td>r/min</td>
<td>Revolutions per minute (rpm)</td>
</tr>
<tr>
<td>V</td>
<td>Volt</td>
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<tr>
<td>W</td>
<td>Watt</td>
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</table>
11  PART STATUS (PS) CODES

EU – Exchange unit (Part included in Volvo Cars Exchange program)
IK – Included in kit
KL – Included in kit + LS
KN – Included in kit + NS
LS – Stocked locally on respective markets
NS – Not stocked as spare part
OP – Discontinued in parts range, not stocked by Volvo central stock CDC
PS – Part Status
SP – Replaced part
## 12 COUNTRY DESIGNATIONS

These country designations are used in the parts catalog for parts related to a legal requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Meaning</th>
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<td>Australia</td>
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<td>BE</td>
<td>Belgium</td>
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<td>BR</td>
<td>Brazil</td>
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<td>CA</td>
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<td>Denmark</td>
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<td>Iceland</td>
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<tr>
<td>IN</td>
<td>India</td>
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<td>Luxembourg</td>
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<td>MX</td>
<td>Mexico</td>
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<td>NL</td>
<td>Netherlands</td>
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<td>NZ</td>
<td>New Zealand</td>
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<tr>
<td>NO</td>
<td>Norway</td>
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<td>PY</td>
<td>Paraguay</td>
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<td>Poland</td>
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<td>PT</td>
<td>Portugal</td>
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<tr>
<td>RO</td>
<td>Romania</td>
</tr>
<tr>
<td>RU</td>
<td>Russian Federation</td>
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<tr>
<td>SA</td>
<td>Saudi Arabia</td>
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<td>SG</td>
<td>Singapore</td>
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<td>South Africa</td>
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<td>Spain</td>
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<td>Switzerland</td>
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<td>TH</td>
<td>Thailand</td>
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<tr>
<td>TR</td>
<td>Turkey</td>
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<tr>
<td>AE</td>
<td>United Arab Emirates</td>
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<tr>
<td>GB</td>
<td>United Kingdom</td>
</tr>
<tr>
<td>US</td>
<td>United States of America</td>
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<tr>
<td>EU</td>
<td>Europe</td>
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<td>EAST-EU</td>
<td>East Europe</td>
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<tr>
<td>ME</td>
<td>Middle East</td>
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<tr>
<td>O.S</td>
<td>Overseas</td>
</tr>
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</table>
13 HISTORY LOG

13.1 50US06
Updated information about the search function.
Information about CSC and typical cases for these.

13.2 50US08
Information about eUpdate.
Information about communication tool DiCE.
Removal of TCM in S/V40 (-04) Reprogrammer.

13.3 50US09
Addition regarding the DIAGNOSTICS tab.
Information about Menu Pricing in the Vehicle Profile Tab.

13.4 50US10
Addition short cuts to the Parts list.
Updates in adding a part in a Parts List.
Addition importing a parts list under the tab PARTS LIST.

13.5 50US11
Updates made in Appendix A - S/V40 (-04) Reprogrammer, sections:
Sequence of work at normal download.
Sequence of work using Emergency recovery mode.
Affected control modules.

13.6 50US12
Information about VIN decoding added.

13.7 50US13
Updates made in vehicle communication tool.
Updates made in Reporting errors in VIDA.
Updates made in country designations.

13.8 50US14
Updates made in Selecting language in VIDA.
Updates made in Searching in the parts catalog.
Updates made in The CSC tab.
Updates made to Vehicle details.

13.9 50US15
Updates made in S/V40 (-04) Reprogrammer.
Updates due to the size of images.

13.10 50US16  
VIDA Help has been split up into two documents. One for VIDA All-in-one and one for VIDA on Web.  
Information regarding VCT2000 changed (since it is no longer supported from VCC, the information regarding VCT2000 has been deleted.)  
Updates made to eUpdate procedure.  
Information about minimum search length has been added.  
Information about synchronization has been removed.  
Information about erasing DTCs from an individual Control Module has been added.  
Information about the connection between TIE and VIDA has been added.  
Information about the communication tool interface J2534-2 has been added.

13.11 50US17  
The chapters Software download and Purchasing and downloading software, for independent operators have been added.  
Updates made due to it is not longer possible to perform diagnostics or software download with VCT2000.  
To set the communication tool is moved to the VEHICLE PROFILE tab. Updates made due to this.  
The function update DiCE firmware is moved to the VEHICLE PROFILE tab. Updates made due to this.  
The list with the SOFTWARE tab functions has been updated.  
Abbreviations added to the list.  
Enhanced index.

13.12 50US18  
PART LIST tab has been changed to WORK LIST tab. Information about the WORK LIST tab has been added.  
Updates made to VIN decoding.  
Updates made to The SEARCH tab.  
Updates made to Abbreviations.  
Updates made to VIDA Release News.

13.13 50US19  
Information about the WORK LIST tab has been updated. WORK LIST USER GUIDE has been appended to the chapter.  
Software download to a locked car has been added.

13.14 50US20  
VIDA work list offline functionality added.  
Country designations has been updated.  
Update of list of abbreviations and country codes.
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<td>Register</td>
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<td>Software download on multiple vehicles</td>
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