



VIDA HELP



VIDA ALL-IN-ONE

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1 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.

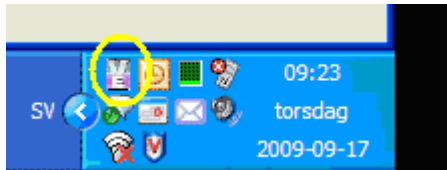


Fig. 1 Installation Icon

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

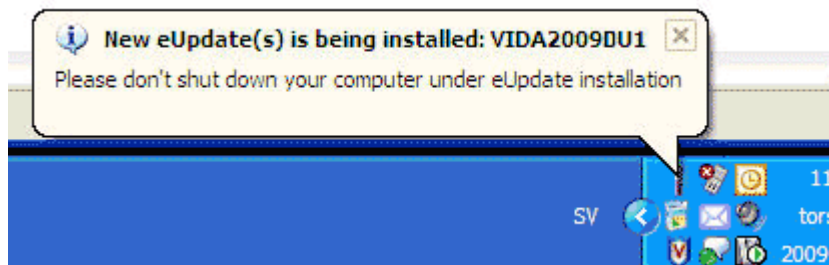


Fig. 2 Pre-installation message

By clicking the eUpdate icon you can follow the pre-installation.

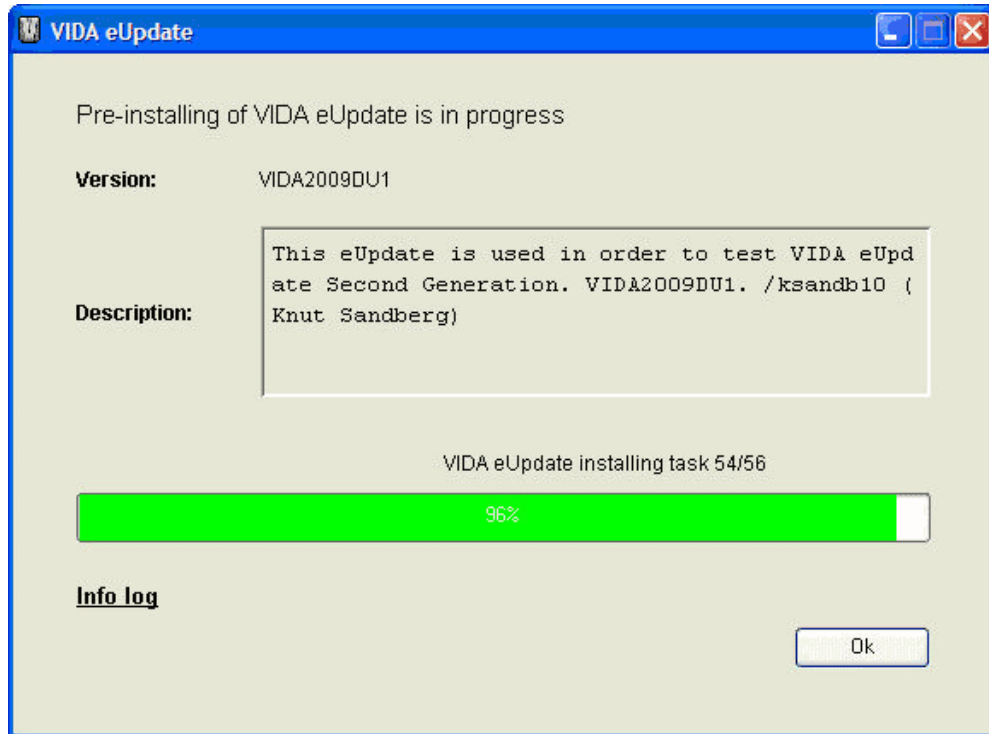


Fig. 3

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

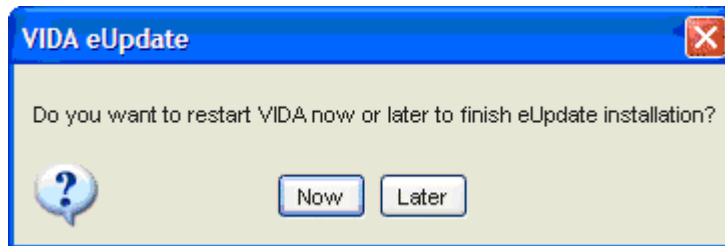


Fig. 4 Dialog box

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.

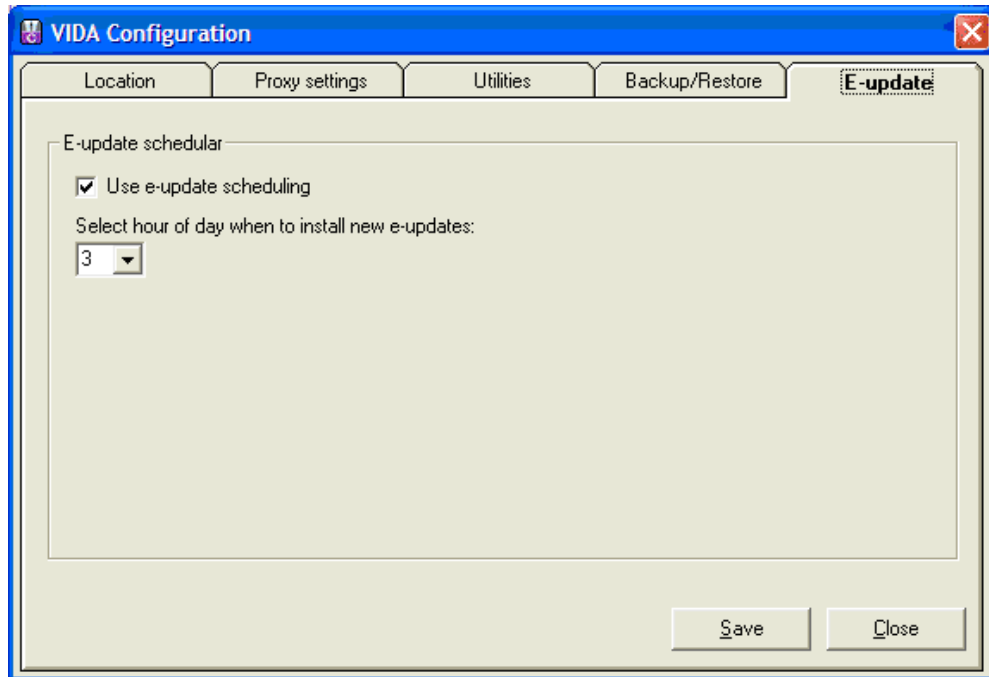


Fig. 5 VIDA Configuration

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

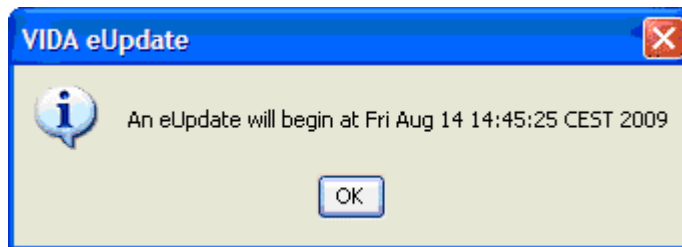


Fig. 6 Message containing eUpdate installation start time



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 via a Ford Motor Company (FMC) 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 not 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.

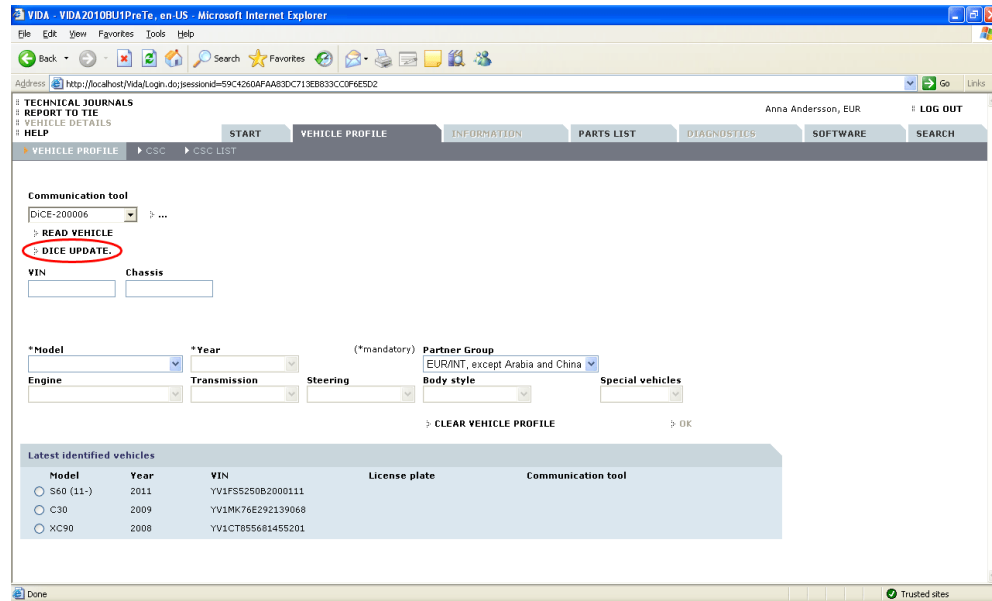


Fig. 7 Update DiCE

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.

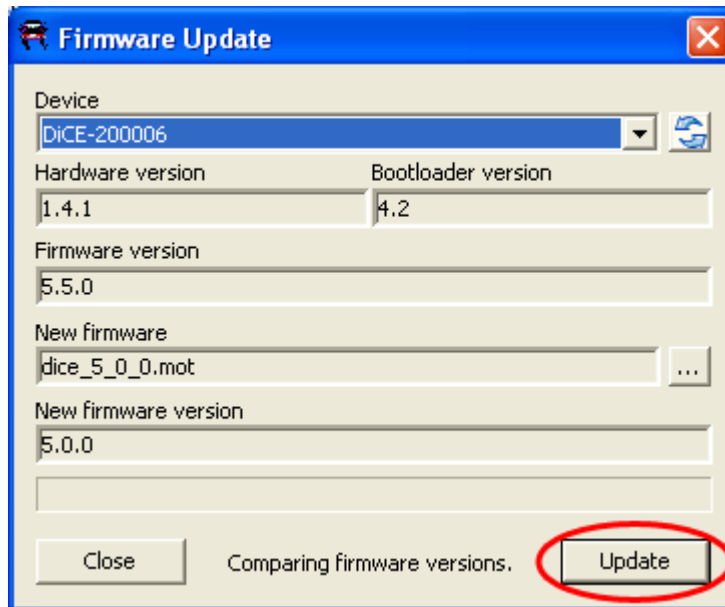
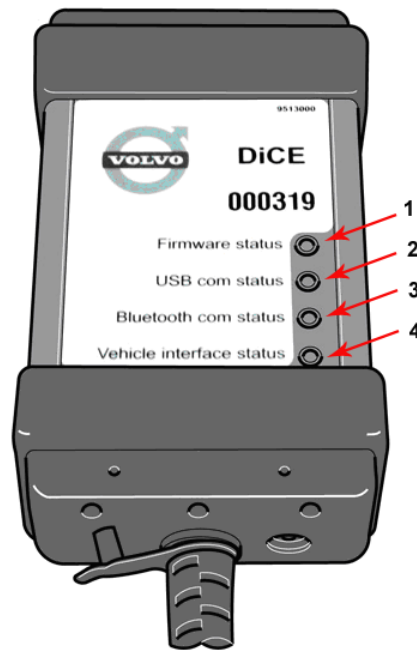


Fig. 8 DiCE Firmware Update

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
- 9. Other – special vehicles, e.g., ambulances, police cars. Components that deviate from standard.

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.

4 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.
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.

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:

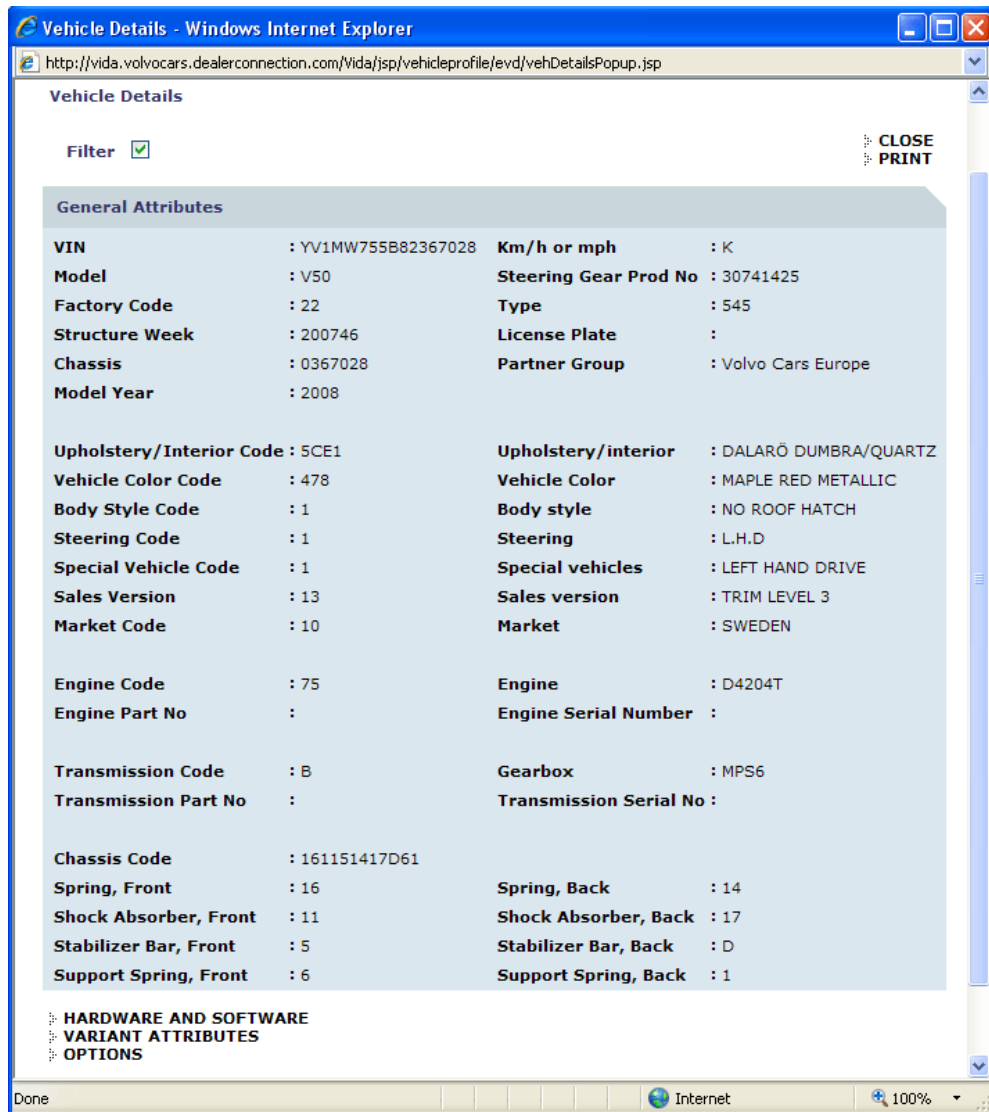


Fig. 9 Vehicle Details pop-up



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:

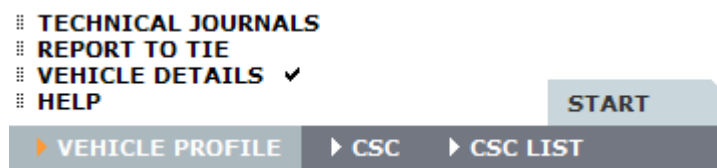


Fig. 10 Vehicle Details filter is activated



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.

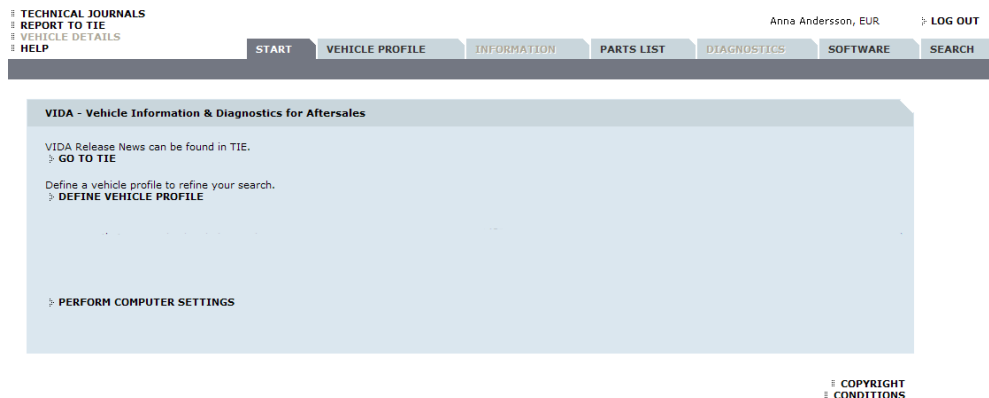


Fig. 11 The START tab

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.

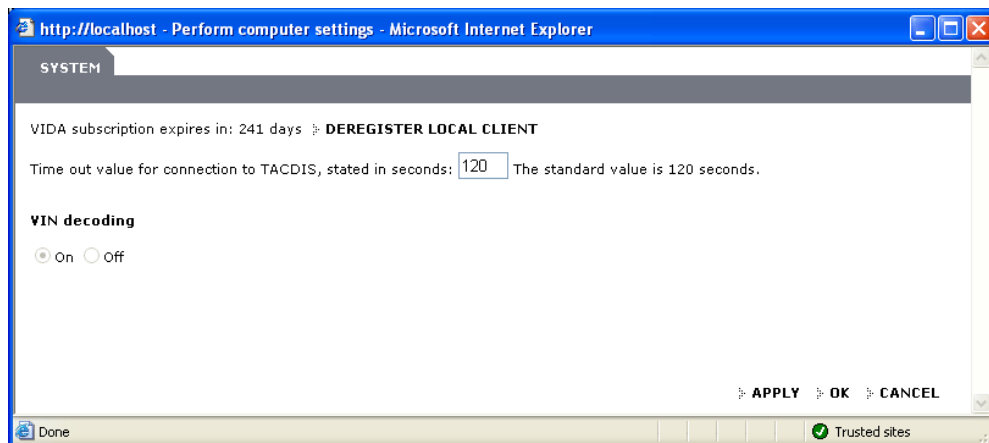


Fig. 12 Perform computer settings

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.

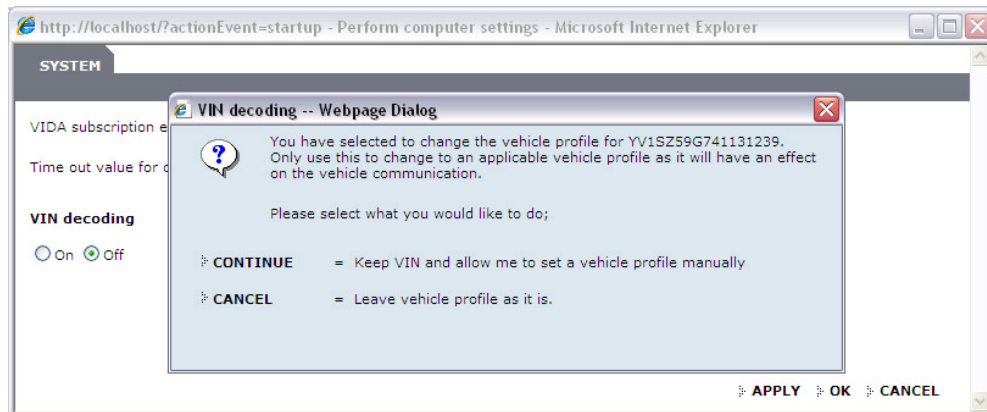


Fig. 13 VIN decoding dialog boxes

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.
3. Manually change to model year 2007.
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 screenshot shows the VIDA VIDA2010BU1_en-US interface in Microsoft Internet Explorer. The browser address bar shows a local URL. The interface has a navigation bar with tabs: TECHNICAL JOURNALS, REPORT TO TIE, VEHICLE DETAILS, HELP, START, VEHICLE PROFILE, INFORMATION, PARTS LIST, DIAGNOSTICS, SOFTWARE, and SEARCH. The VEHICLE PROFILE tab is selected. Below the navigation bar, there are sections for Communication tool, READ VEHICLE, DICE UPDATE, and a form with fields for VIN, Chassis, License plate, Work order no., and Customer number. There are also dropdown menus for *Model, *Year, (*mandatory) Partner Group, Engine, Transmission, Steering, Body style, and Special vehicles. At the bottom, there is a table titled 'Latest identified vehicles' with columns for Model, Year, VIN, License plate, and Communication tool. The table contains one entry for XC90, Year 2008, VIN YV1CT855681455201.

Model	Year	VIN	License plate	Communication tool
XC90	2008	YV1CT855681455201		

Fig. 14 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 46*.
- 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

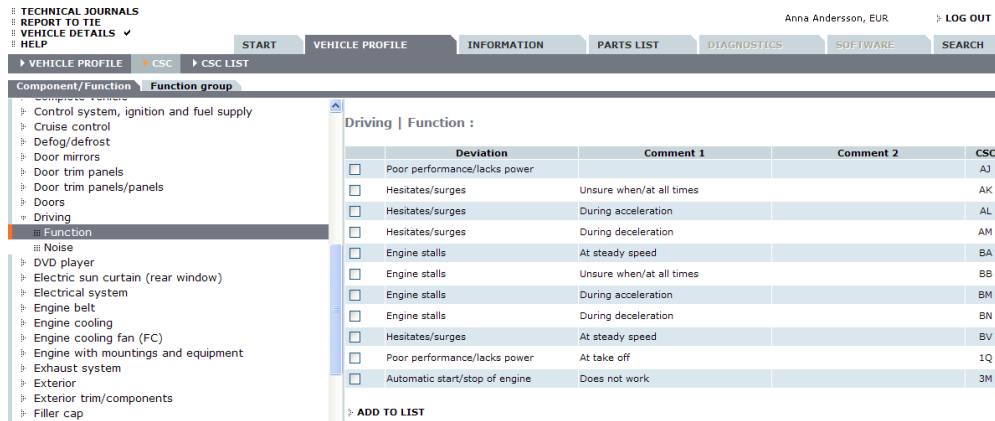


Fig. 15 The Component/Function tab

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**.

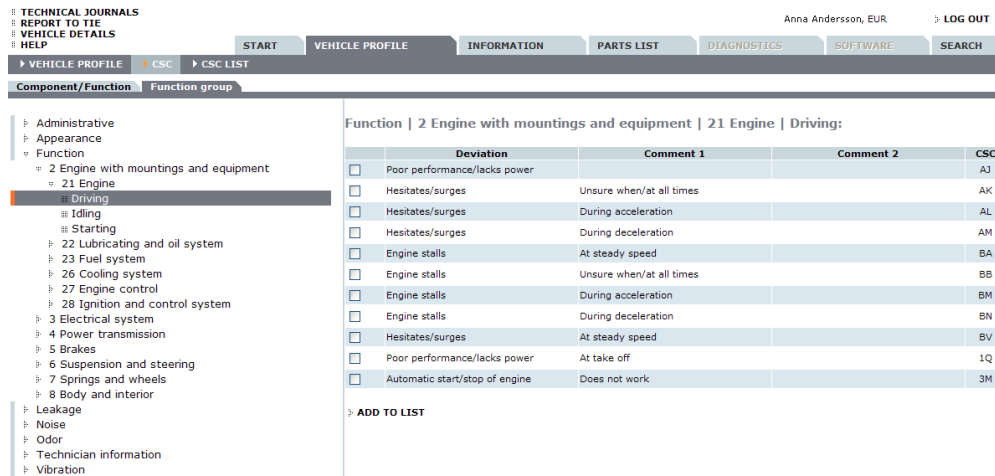


Fig. 16 The Function group tab

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.

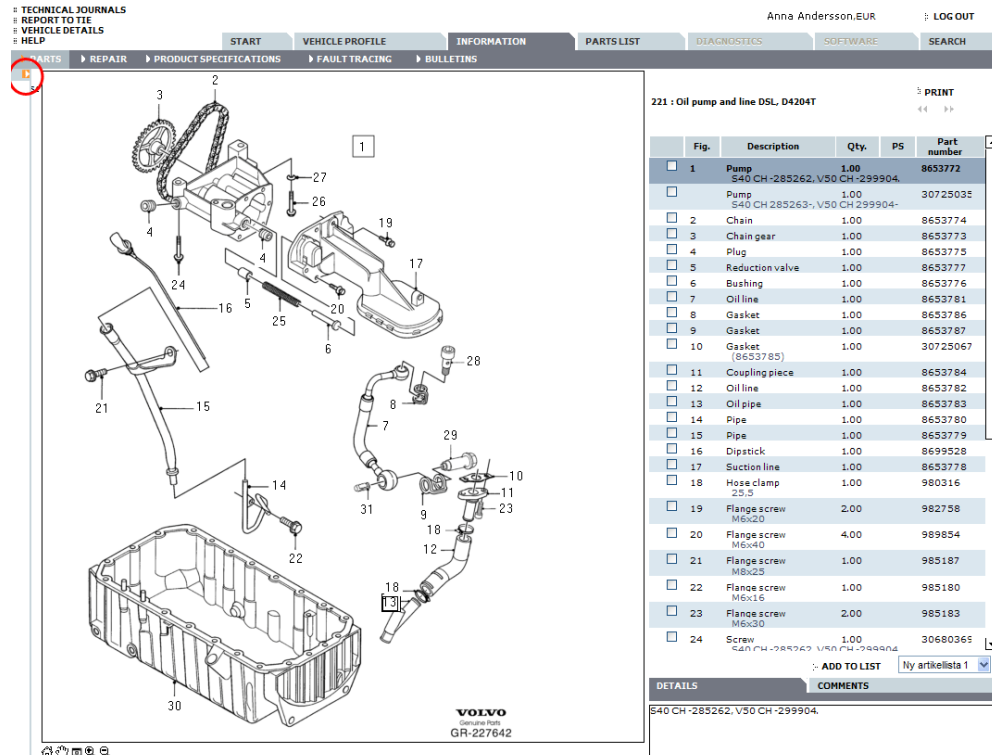


Fig. 17 Open navigation tree

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 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 system 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. The work list can also get information about price, stock quantity and stock position for each part in the list 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 system.

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 Using the WORK LIST tab

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

Command	Explanation
CHANGE WORK LIST	Enables you to switch to another open work list
SETTINGS	Enables you to change the work list settings.
SEARCH	Search for part, CSC or operation.
SAVE	Saves the active work list.
CLOSE	Closes the active work list.
PRINT	Creates a printable version of the active work list.
DELETE	Deletes selected items in the list. If no items are selected the list is deleted.
RENAME	Opens a dialog box that enables you to rename the work list.
NEW	Opens a dialog box to create a new work list.
IMPORT	Opens a dialog box to retrieve a work list from a file.
EXPORT	Opens a dialog box to save an existing list as a file. This can be done with or without relevant vehicle profile.
ADD SW	Adds selected software to the software manager.

Command	Explanation
ADD ALL SW	Adds all software in the work list to the software manager.
VEHICLE HISTORY	This is only available if a DMS system is integrated. Retrieves the history of the selected vehicle from the DMS.
CUSTOMER DETAILS	This is only available if a DMS system is integrated. Retrieves the customer details from the DMS.
CLAIM TYPES	Shows active claim types and claim type history for the selected vehicle.
RETRIEVE FROM DMS (Alt+R)	This is only available if a DMS system is integrated. Retrieves information about price, stock quantity and stock location for the parts in the active work list.
SEND LIST TO DMS (Alt+S)	This is only available if a DMS system is integrated. 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.
Drop down list	Enables you to sort the list by type or by job no.

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.

5.5 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 46*.

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.

Vehicle details Latest readout: 2009-10-23 14:18:08 > UPDATE

Name	Value
VIN	YV1AS982891103676
FRON	258393685
Chassis	103676
Structure week	200905
Type (PNR-3)	124
Factory mode	Volvo Torslanda
Total distance	8146 km
Total distance	5062,77 miles

Vehicle configuration

Name	Value
Vehicle type	S80
Doors	4 doors
Transmission - Driveline	2 wheel drive
Bifuel	No
Engine	Faulty value
Fuel	Petrol
Alternator	180 A
Steering wheel position	Left hand drive
Gear box	MPS6
Gearbox type	Automatic gearbox
Fuel tank, volume	70 Litres
Alarm	Yes
Headlights, type	Halogen lamp without adjuster
Headlights, symmetry	US symmetry
Dipped beam	User Configurable Dipped Light In Pos '0'
Dimmed dipped headlights	No
Fog lights	Foglight not together with high beam
Rear foglight towfunction	Foglights running even when towing
Trailer Module	Trailer Module 7-pos socket with power supply
Keyless Entry And Start	No
Additional heater	Without Fuel Fired Heater
Cruise control	Yes

Connected 13,8 V Pos II

Fig. 18 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

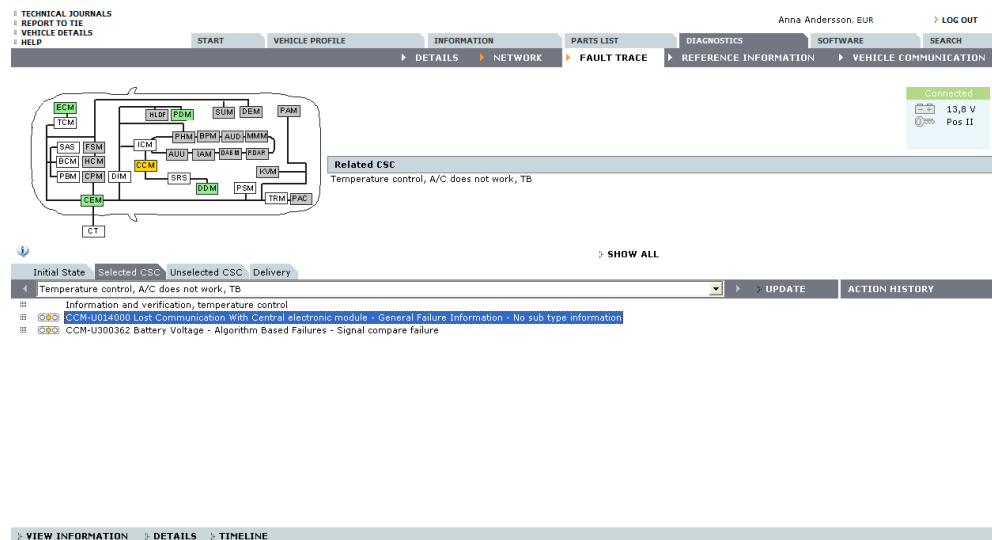


Fig. 19 The FAULT TRACE tab

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

CEM-B1D1415 Interior Lights Circuit "B" - General Electrical Failures - Circuit short to battery or open PRINT

Conclusion	Current operation cycle	Previous operation cycles	First time fault found
Unknown DTC. Please, send error report.	Status Disturbance Status Frequency	Status Frequency	Date and time Mileage
	>60%	High	2009-09-25 13:00:07 7216 Km 4485 Miles

Overview Details Timeline

Counter values from latest readout	Value
Counter 1 Started operation cycles since fault was last found.	0
Counter 2 Confirmed fault free operation cycle since fault was last found.	0
Counter 3 All operation cycles since the fault was found the first time.	145
Counter 4 Confirmed operation cycles with active fault.	103

SHOW GRAPH

Status bits from latest readout	Value	Frozen values from initial readout	Value
SB 00 Fault found last time DTC Test was completed during current operation ...	Yes	Total distance	7216 km
SB 01 Fault found at least once during current operation cycle	Yes	Total distance	4484.77 miles
SB 02 Fault found at least once during current and previous operation cycles	Yes	MECU supply voltage	11.75 V
SB 03 Fault found recently since erasing of DTCs	Yes	In-car temperature	23 °C
SB 04 DTC Test completed at least once since erasing of DTCs	Yes	Power Mode	Running
SB 05 Fault found at least once since erasing of DTCs	Yes		
SB 06 - DTC Test completed at least once during current operation cycle	Yes		
SB 07 Warning indicator requested	No		

FAULT TRACE UPDATE CLOSE

Fig. 20 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

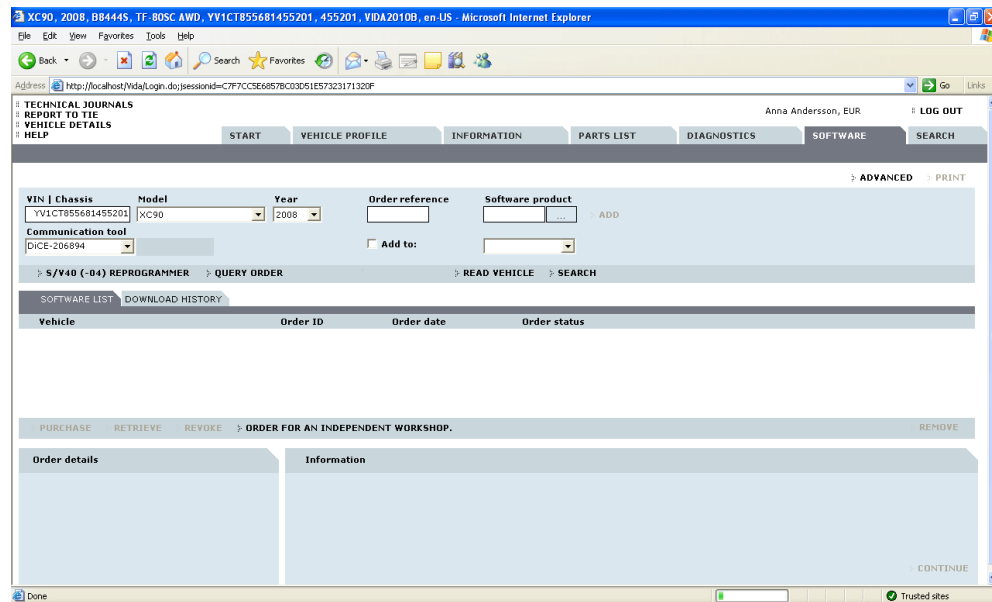


Fig. 21 SOFTWARE tab

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 46.*

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:

Function	Description
ADVANCED	Here, ECU information can be obtained, an ECU can be affected, vehicles read off, DiCE tested and connections to PIE tested.
PRINT	Creates a PDF file with the relevant software list for print out.
... (Software product)	Contains a list of all software relevant to selected vehicle type.
ADD	Instead of pressing "...", a part number can be entered at Software product. This can be added to the SOFTWARE LIST by clicking ADD .
Communication tool	Before vehicle communication can be established a communication tool has to be selected in the drop-down list.
S/V40 (-04) REPROGRAMMER	Vehicles of this type must be managed in a special way in VIDA. Further information is mentioned in chapter S/V40 (-04) Reprogrammer, <i>see chapter 7 S/V40 (-04) REPROGRAMMER on page 65</i> .
QUERY ORDER	Shows a list of software orders that can be retrieved by VIDA All-in-one.
READ VEHICLE	Establish communication with the vehicle that is connected to the selected Communication tool.
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 .

Function	Description
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:

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

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.

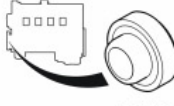
A search hit will be displayed in bold red font and VIDA will scroll down to the search hit.

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.

216: Crank mechanism

Crankshaft front seal

Special tools	
 VOLVO 999 5069	999 5069 EXTRACTOR (SEALS) Tool number:999 5069 Tool description:EXTRACTOR (SEALS) Tool boards:21
 VOLVO 999 7153	999 7153 Drift Tool number:999 7153 Tool description:Drift Tool boards:21

Removal

Fig. 22 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.

TECHNICAL JOURNALS
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VEHICLE DETAILS
HELP

Anna Andersson, EUR [LOG OUT](#)

START VEHICLE PROFILE INFORMATION PARTS LIST **DIAGNOSTICS** SOFTWARE **SEARCH**

Vehicle profile

☒ On ☐ Off

Search for:

☐ Part description ☒ Part number

[SEARCH](#)
[STOP](#)
[BACK](#)

☐ Include notes

Select type of search

☒ Parts
Show results by
☒ Part
☐ Section

☐ Repair
☐ Product specifications
☐ Fault tracing
☐ Bulletins
☐ CSC
☐ All information except parts catalog
☐ VCC Id

Fig. 23 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 43*.

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

The software download process is changed from VIDA 2010B. The Software product purchase procedure is however almost unaltered. To be able to perform 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 57.*

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.

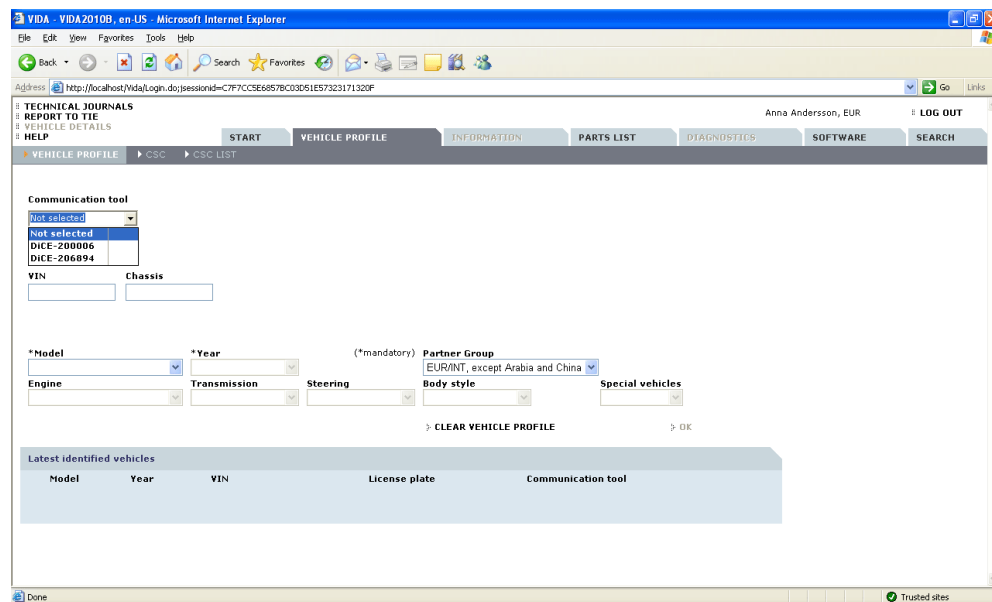


Fig. 24 Installed Communication tools

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.

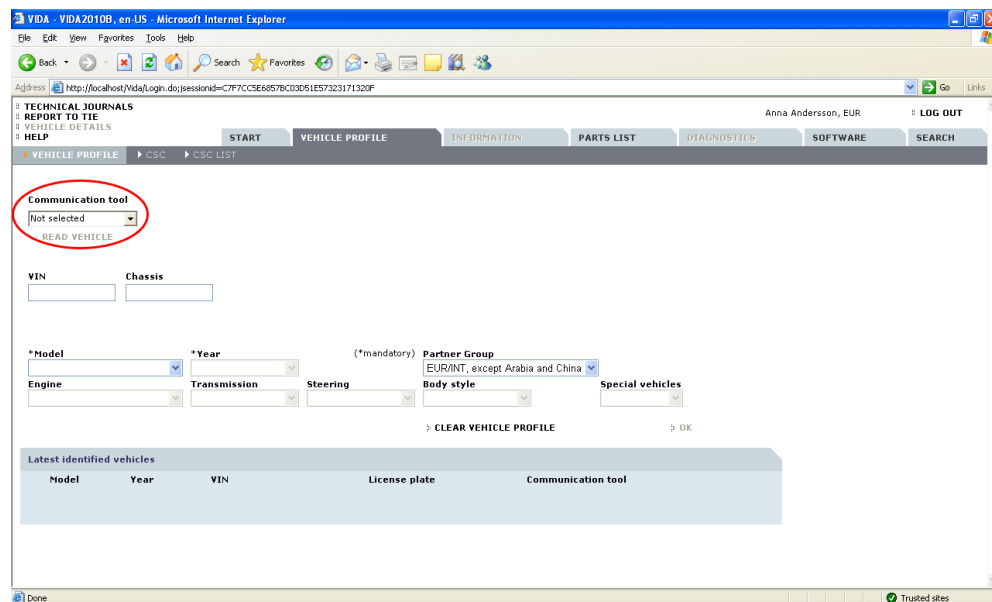


Fig. 25 The Communication tool drop-down list

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**.

6.1.1.1 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.

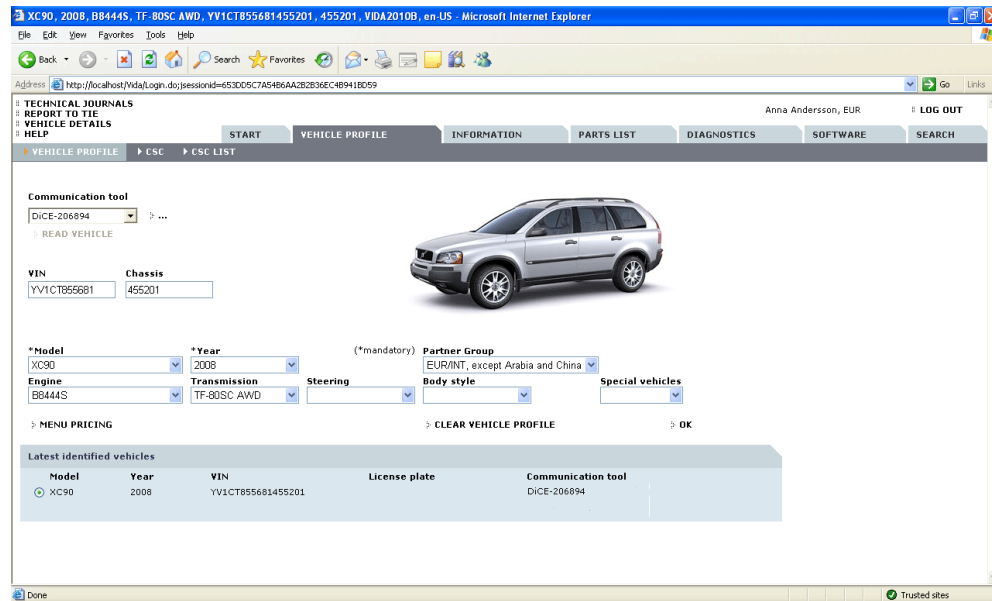


Fig. 26 Latest identified vehicles list

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.

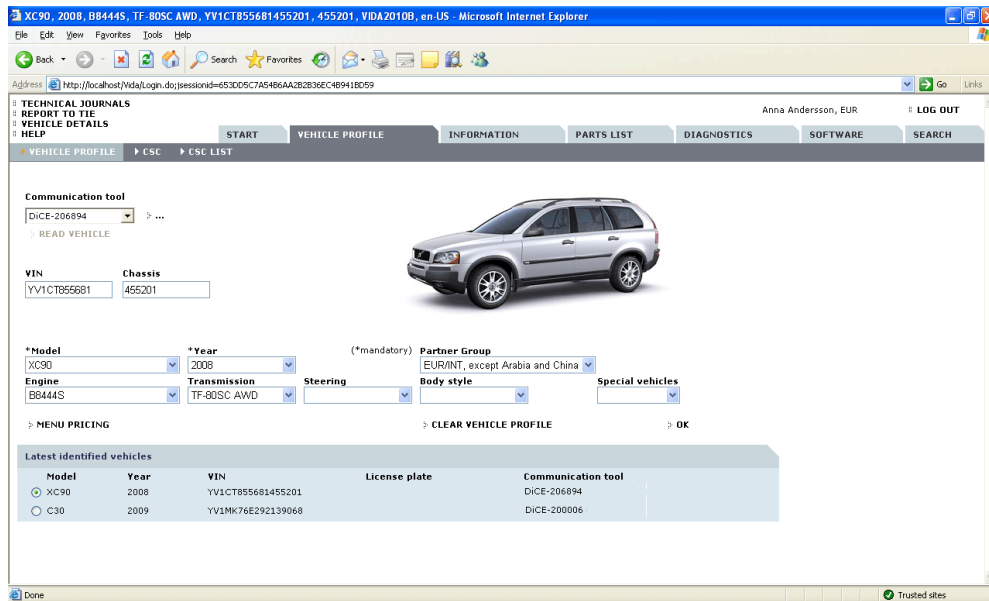


Fig. 27 Active associations between vehicles and communication tools

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.

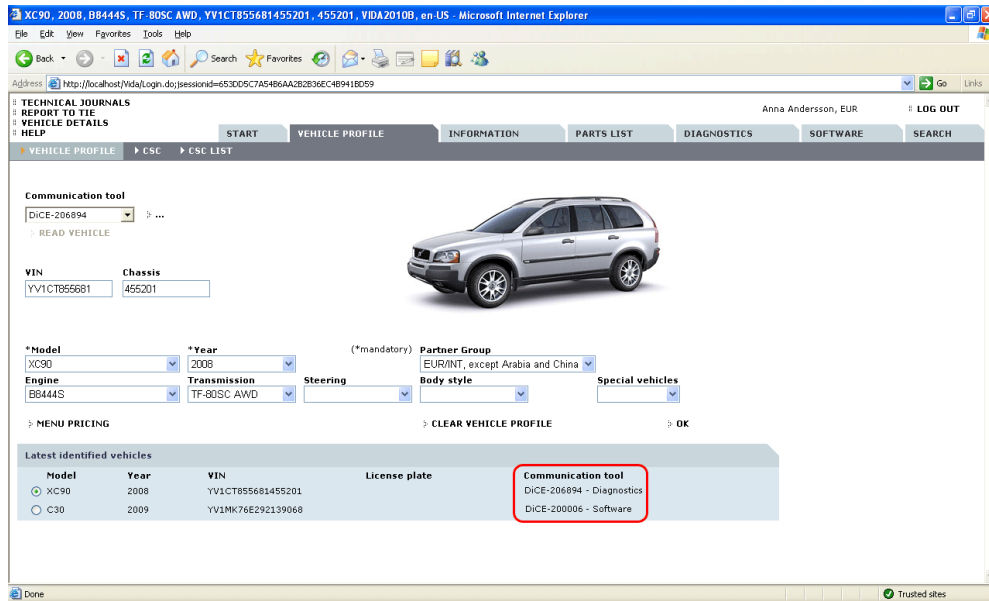


Fig. 28 Communication tool status

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.

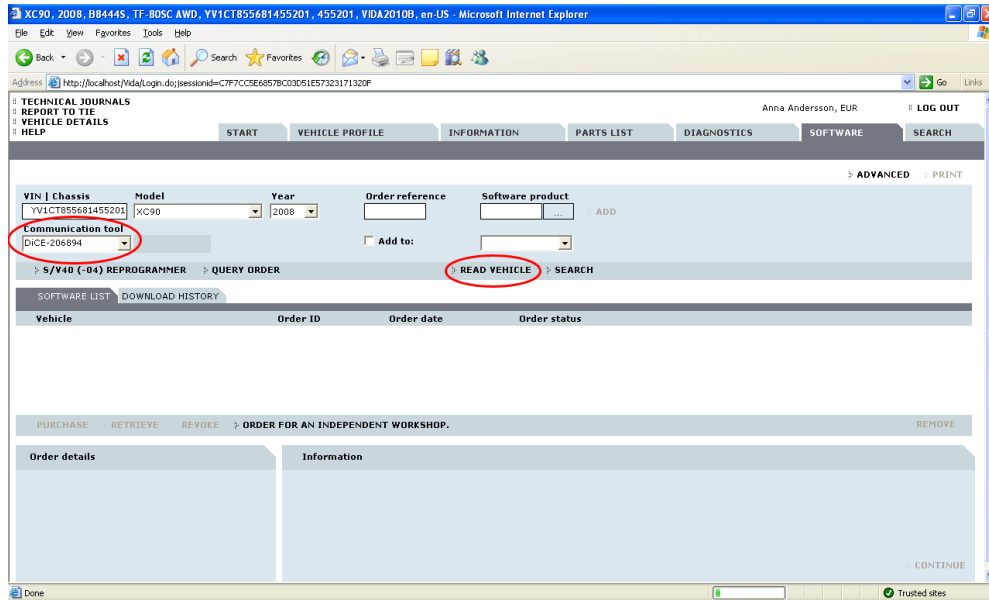


Fig. 29 Software tab

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.

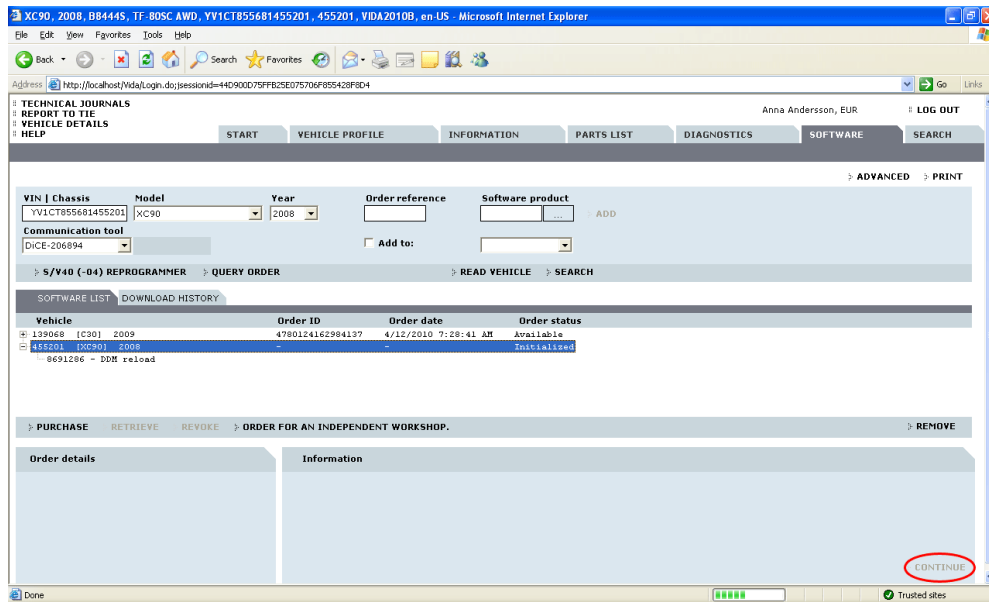


Fig. 30 Purchase software

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.

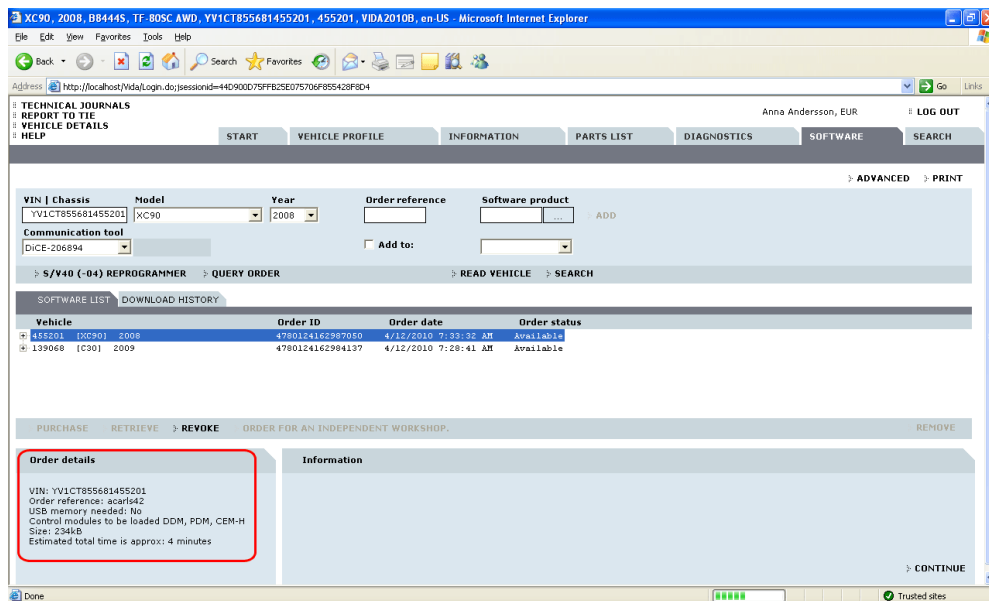


Fig. 31 Order details

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 57*. 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.

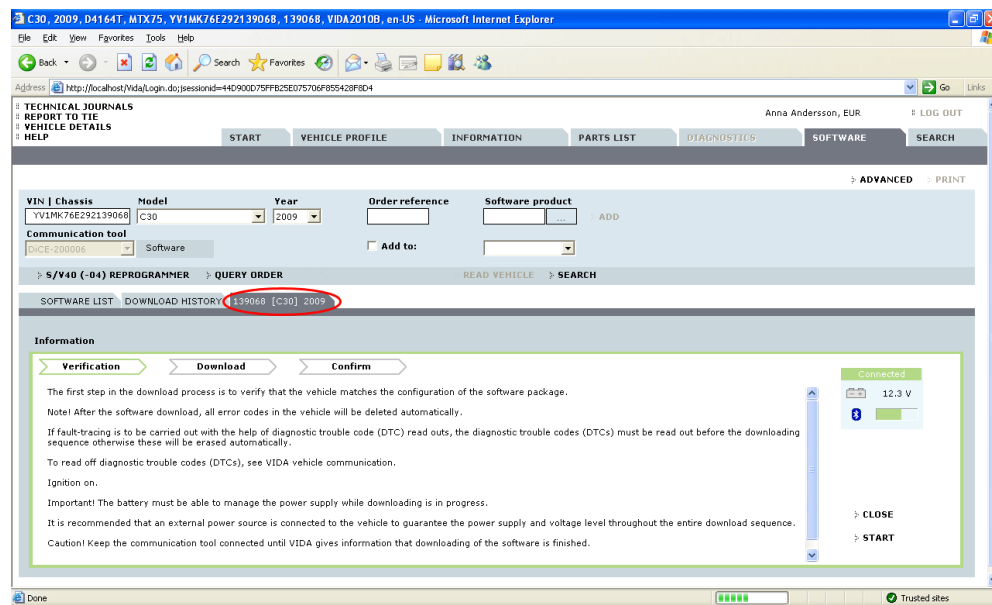


Fig. 32 Unique vehicle download tab for corresponding vehicle

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.

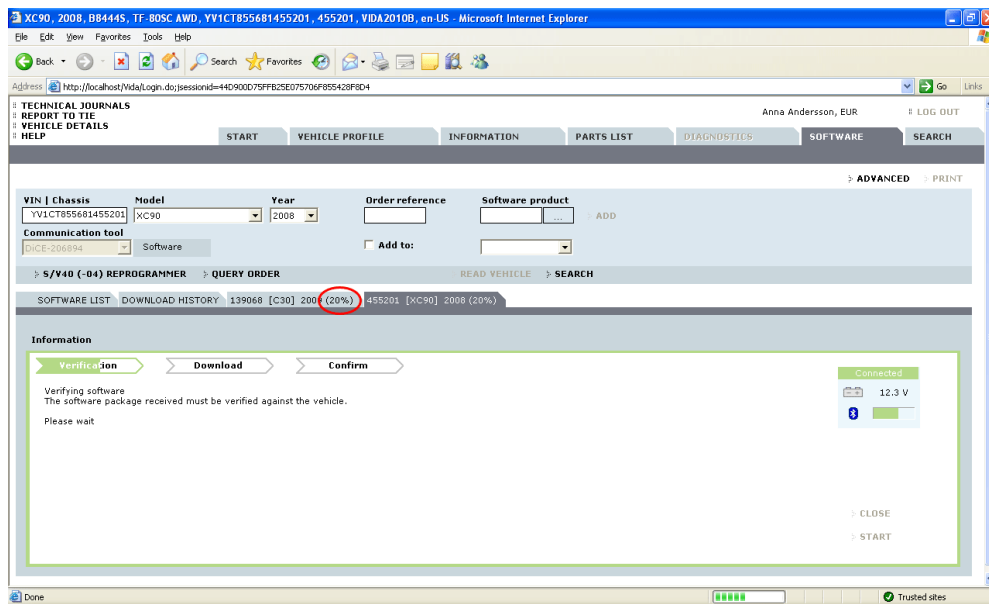


Fig. 33 The vehicle download tabs show the total progress as a percentage for each vehicle

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.

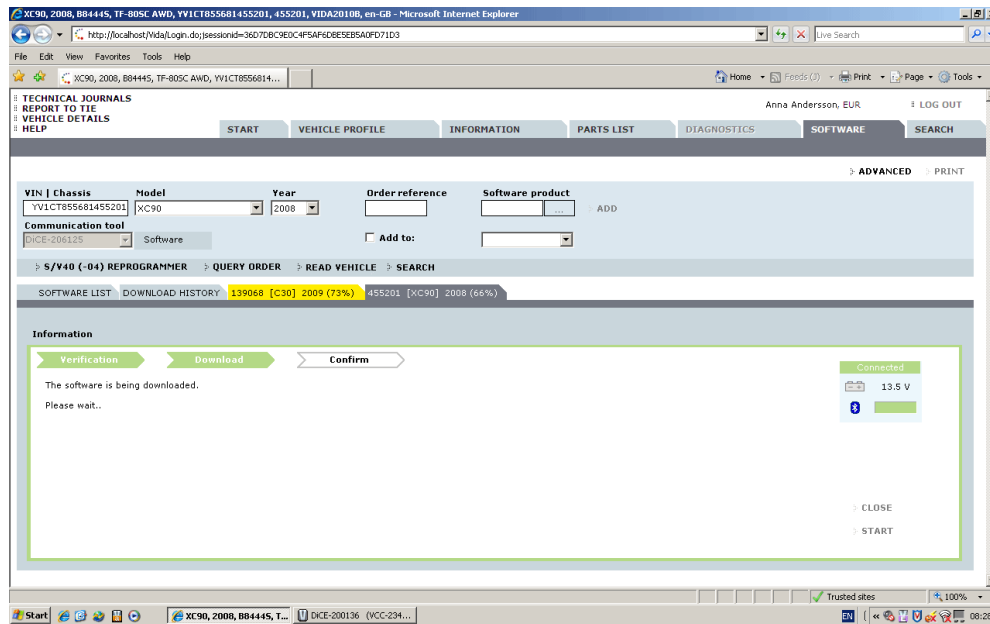


Fig. 34 Highlighted vehicle download tab



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.

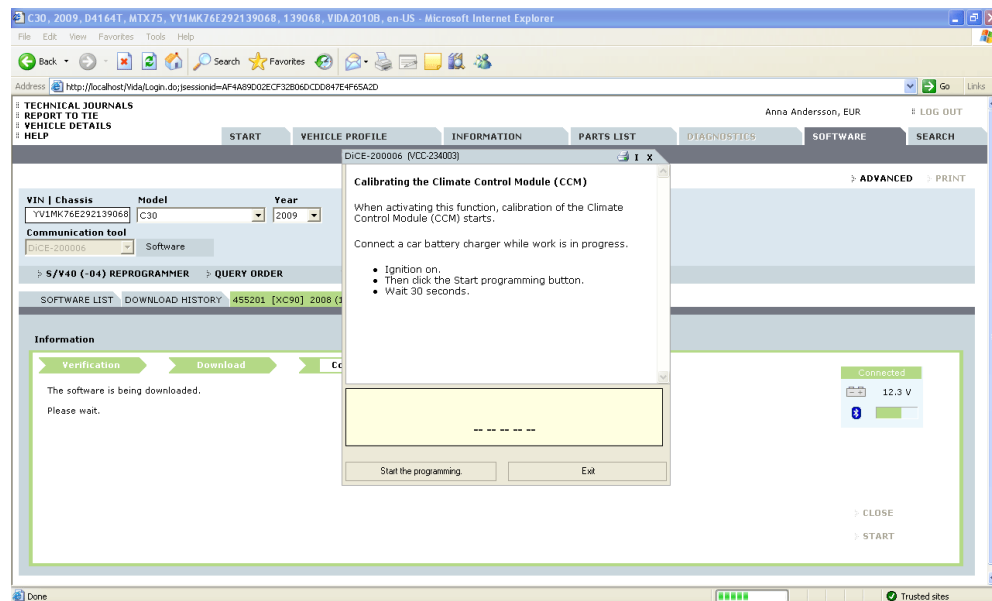


Fig. 35 Diagnostic script

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.

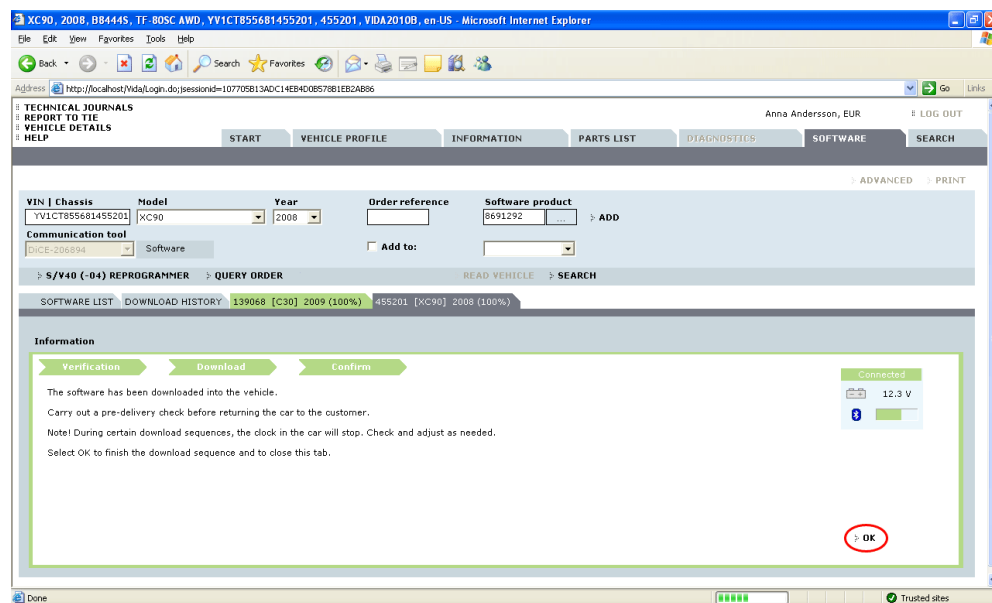


Fig. 36 Completed Software download sequence

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.

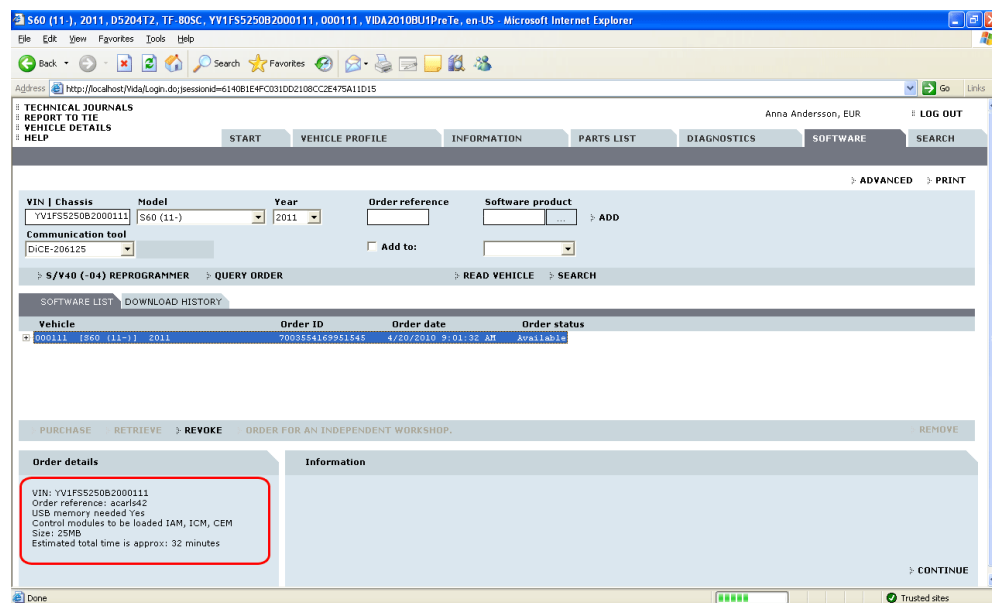


Fig. 37 Large software product

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).

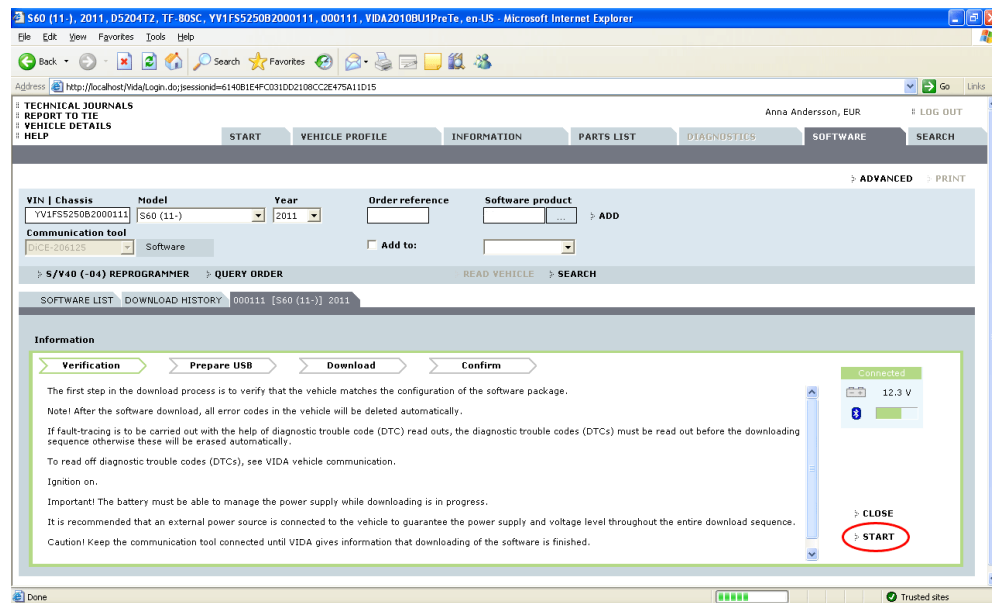


Fig. 38 Verification

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.

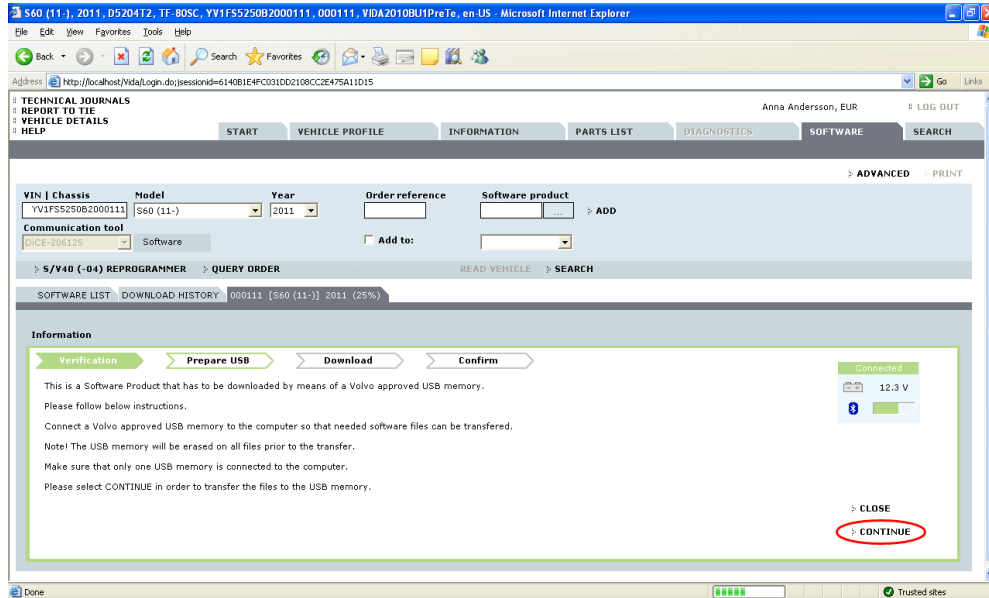


Fig. 39 Prepare USB

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.

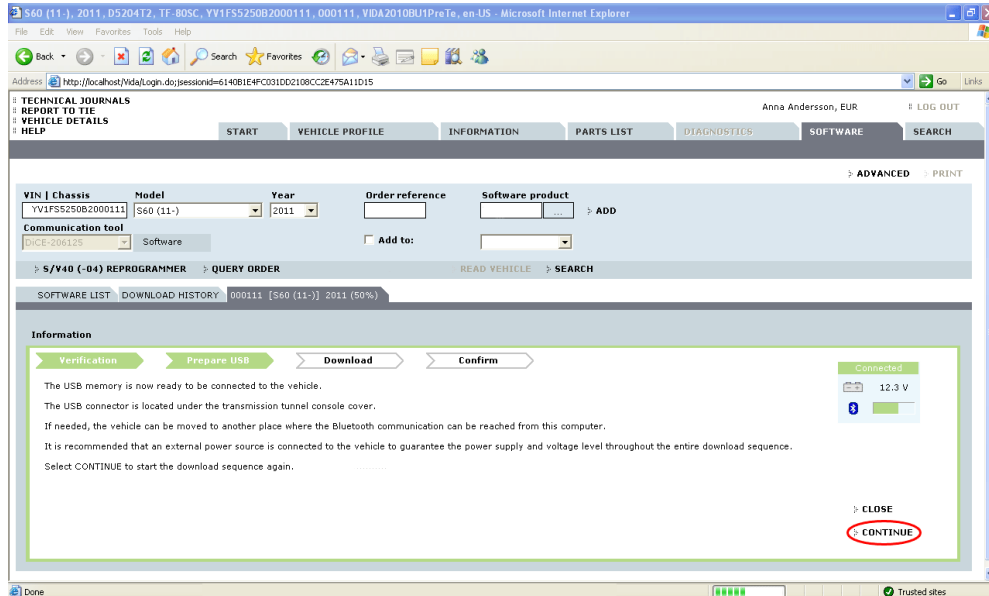


Fig. 40 Start the software download

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.

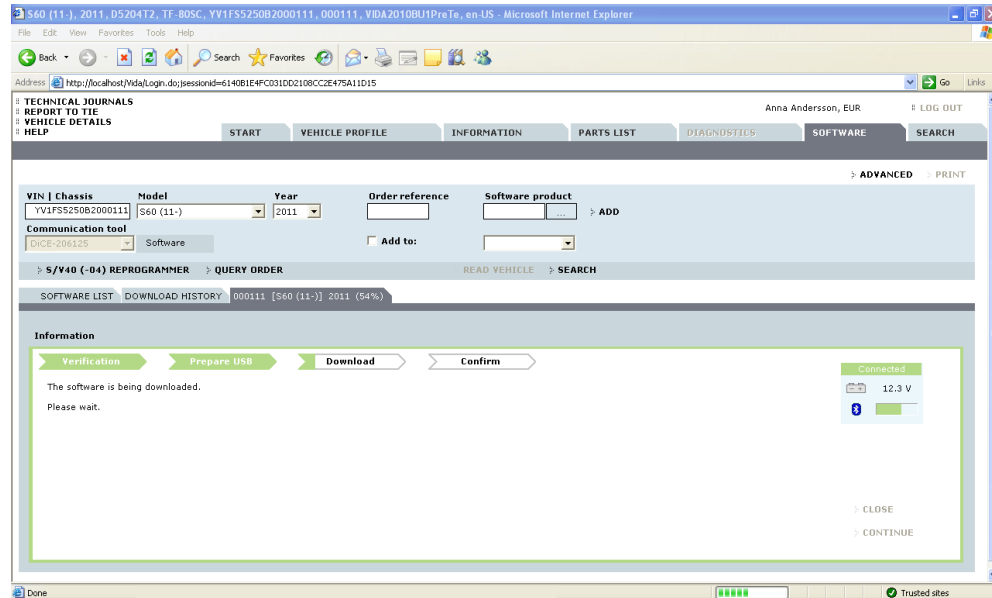


Fig. 41 DOWNLOAD

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 in the same way as before VIDA 2010B.

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.

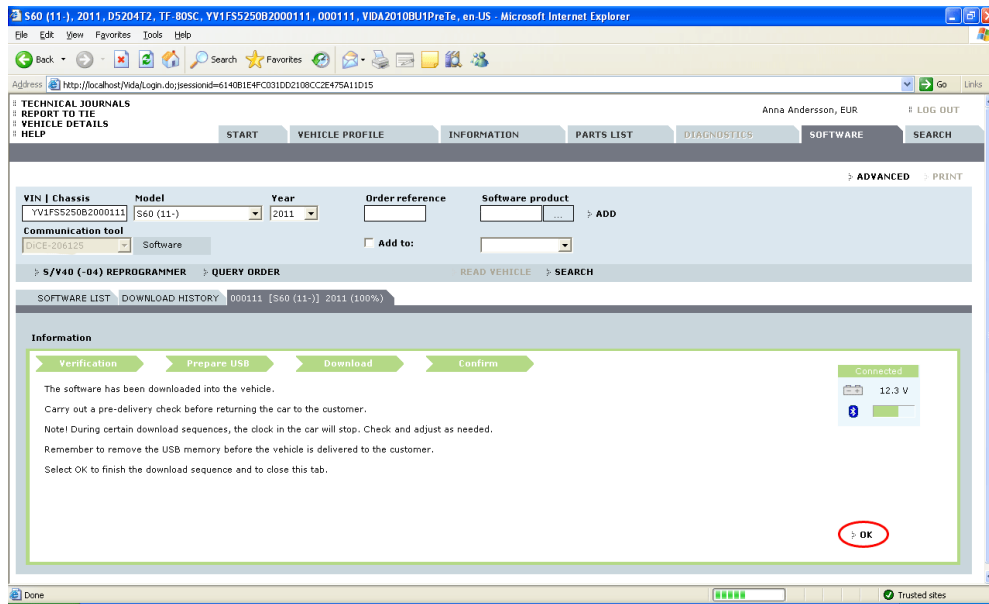


Fig. 42 Confirm

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.

6.3.7 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.

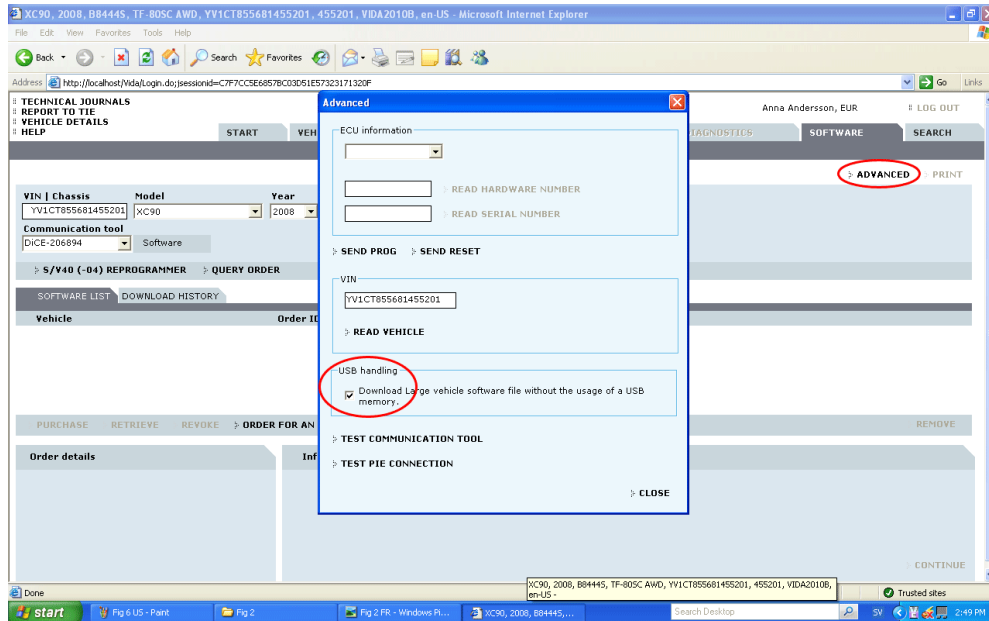


Fig. 43 USB override

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

6.4 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**.

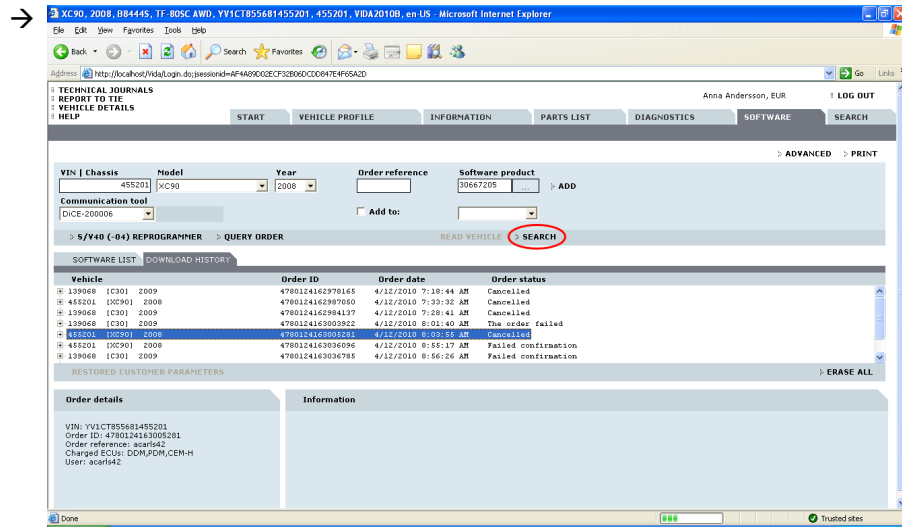


Fig. 44 Search function

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.

TECHNICAL JOURNALS
REPORT TO TIE
VEHICLE DETAILS
HELP

Anna Andersson, EUR [LOG OUT](#)

[START](#) [VEHICLE PROFILE](#) [INFORMATION](#) [PARTS LIST](#) [DIAGNOSTICS](#) [SOFTWARE](#) [SEARCH](#)

[ADVANCED](#) [PRINT](#)

VIN | Chassis: 020009 Model: V40 Year: 2004 Order reference: Software product: [ADD](#)

Communication tool: [Add to:](#)

[S/V40 \(-04\) REPROGRAMMER](#) [QUERY ORDER](#) [READ VEHICLE](#) [SEARCH](#)

[SOFTWARE LIST](#) [DOWNLOAD HISTORY](#)

Vehicle	Order ID	Order date	Order status
PURCHASE RETRIEVE REVOKED ORDER FOR AN INDEPENDENT WORKSHOP REMOVE			

Order details **Information**

[CONTINUE](#)

In the **SOFTWARE** tab, select the **S/V40 (-04) Reprogrammer** tab. The application will start.

2.

Volvo S/V40 Reprogrammer

Welcome to the S/V40 Engine Reprogramming Application!

This application should only be used for programming EMS2000 control modules in S40 and V40 cars.

NOTE! The new S40 (04-) and V50 cars (P1-platform) can NOT be upgraded using this application.

Reprogramming should be performed according to market specific service information.

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

Type: Engine Control Module P/N:

Model/Year: Upgrade P/N:

Engine:

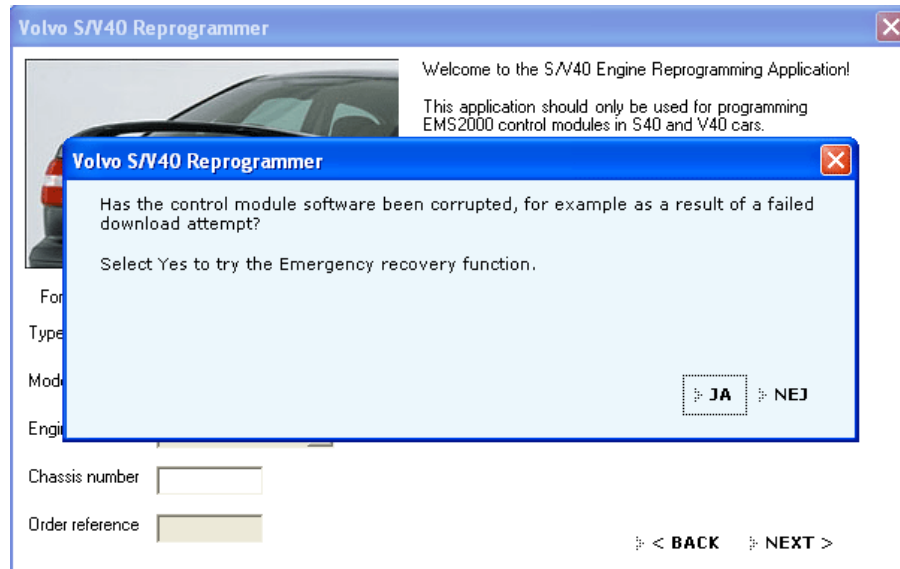
Chassis number:

Order reference:

[BACK](#) [START](#)

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.

Volvo S/V40 Reprogrammer



Enter vehicle information and control module part number.

- Connect the communication device to the PC and to the vehicle's data link connector (DLC). The connection must be maintained until download is completed.
- Turn the ignition key ON (position 2).
- Click Next to search for software update.

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

Type: Engine Control Module P/N:

Model Year: Upgrade P/N:

Engine:

Chassis number:

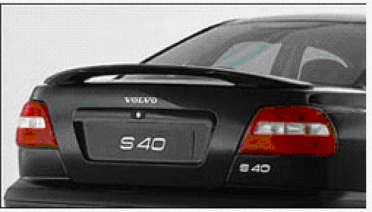
Order reference:

< **BACK** **NEXT** >

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.

Volvo S/V40 Reprogrammer



Click Next to search for software update.

Type: Engine Control Module P/N:

Model Year: Upgrade P/N:

Engine:

Chassis number:

Order reference:

< **BACK** **NEXT** >

The readout part number is shown. Click on **NEXT** to search for updated software.

6.

Volvo S/V40 Reprogrammer



A software upgrade was found.
- Click Next to upgrade control module.

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

Type	645 (V40)	Engine Control Module P/N	30616813
Model Year	2002	Upgrade P/N	0030646422.00A
Engine	B4184S2		
Chassis number	869598		
Order reference			

< BACK NEXT >

Updated software is found. Click on **NEXT** to start the download procedure.

7.

Volvo S/V40 Reprogrammer



Download to vehicle has started. Don't disconnect any cables during this time!

Unlocking control module

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

Type	645 (V40)	Engine Control Module P/N	30616813
Model Year	2002	Upgrade P/N	0030646422.00A
Engine	B4184S2		
Chassis number	869598		
Order reference			

< BACK NEXT >

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.

Volvo S/V40 Reprogrammer



PIN codes must be ordered for this vehicle.
Please enter

- Order reference (optional)
- Click Next to order codes.

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

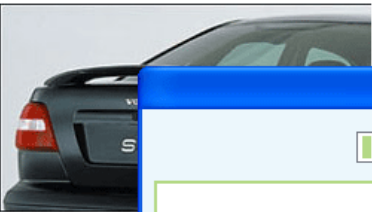
Type	645 (V40)	Engine Control Module P/N	30616813
Model Year	2002	Upgrade P/N	0030646422.00A
Engine	B4184S2		
Chassis number	869598		
Order reference			

< **BACK** **NEXT** >

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.

Volvo S/V40 Reprogrammer



PIN codes must be ordered for this vehicle.
Please enter

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

Type			
Model Year			6.000
Engine	B4164S2		
Chassis number	869598		
Order reference			

< **BACK** **NEXT** >

Application is ordering PIN codes.

10.

Volvo S/V40 Reprogrammer



Failed to unlock the EMS2000 control unit with the supplied codes.

Type: 645 (V40) Engine Control Module P/N: 30616813.000
 Model Year: 2002 Upgrade P/N: 0030646422.00A
 Engine: B4162S2
 Chassis number: 869598
 Order reference:

< BACK NEXT >

**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.

Volvo S/V40 Reprogrammer



Click Next to start programming.

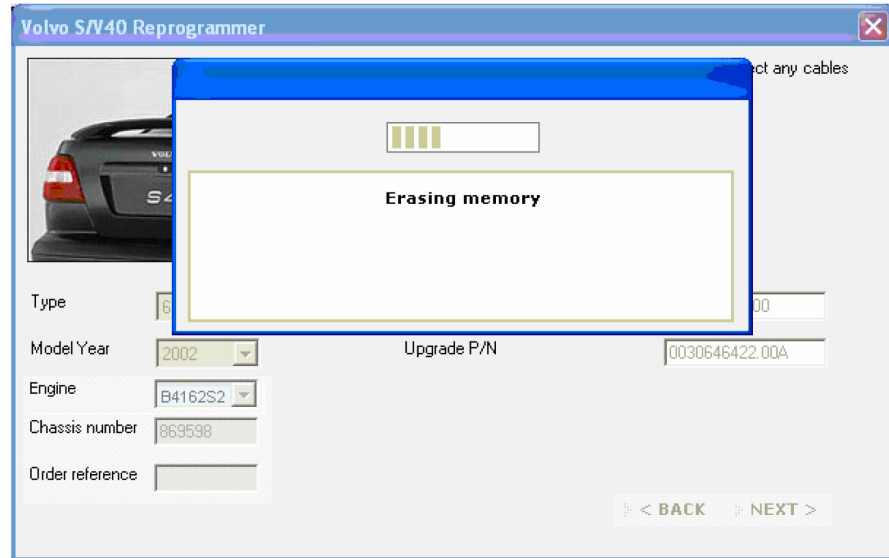
For more detailed information (for example valid software numbers) please consult VIDA help

Type: 645 (V40) Engine Control Module P/N: 30616813
 Model Year: 2002 Upgrade P/N: 0030646422.00A
 Engine: B4184S2
 Chassis number: 869598
 Order reference:

< BACK NEXT >

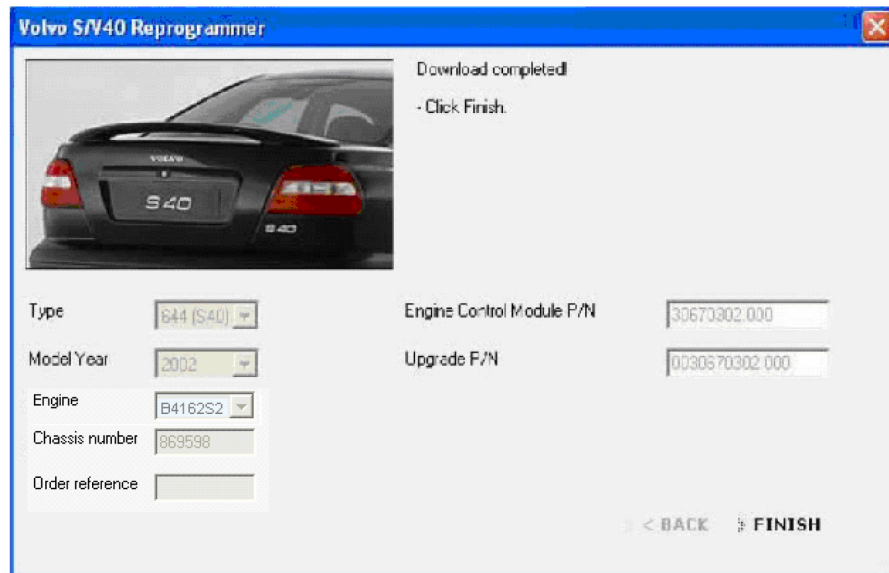
When PIN codes are ordered and downloaded this window is shown. Click on **NEXT** to start the download procedure.

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.

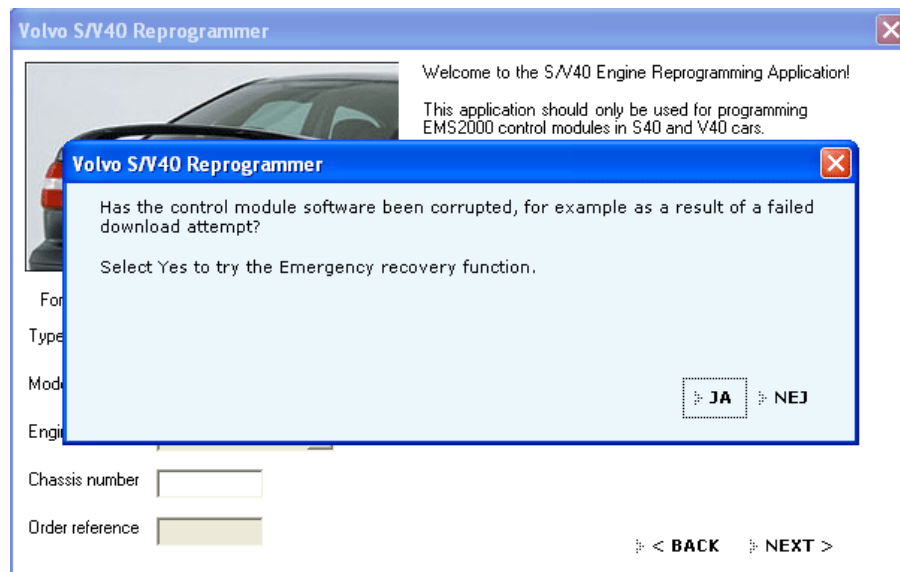


IMPORTANT

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.

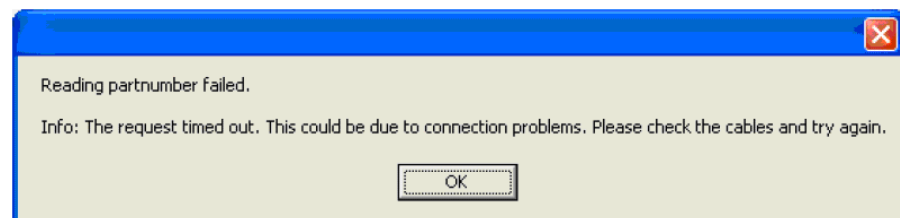
If Emergency recovery mode is used to download software although the application indicates that no software is available or if the original part number is not in the list of available software, the control module may have the wrong software downloaded and therefore will no longer be able to work correctly.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

Volvo S/V40 Reprogrammer



Enter vehicle information and control module part number.

- Connect the communication device to the PC and to the vehicle's data link connector (DLC). The connection must be maintained until download is completed.
- Turn the ignition key ON (position 2).
- Click Next to search for software update.

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

Type	645 (V40)	Engine Control Module P/N	30616813
Model Year	2002	Upgrade P/N	
Engine	B4184S2		
Chassis number	869598		
Order reference			

< BACK NEXT >

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

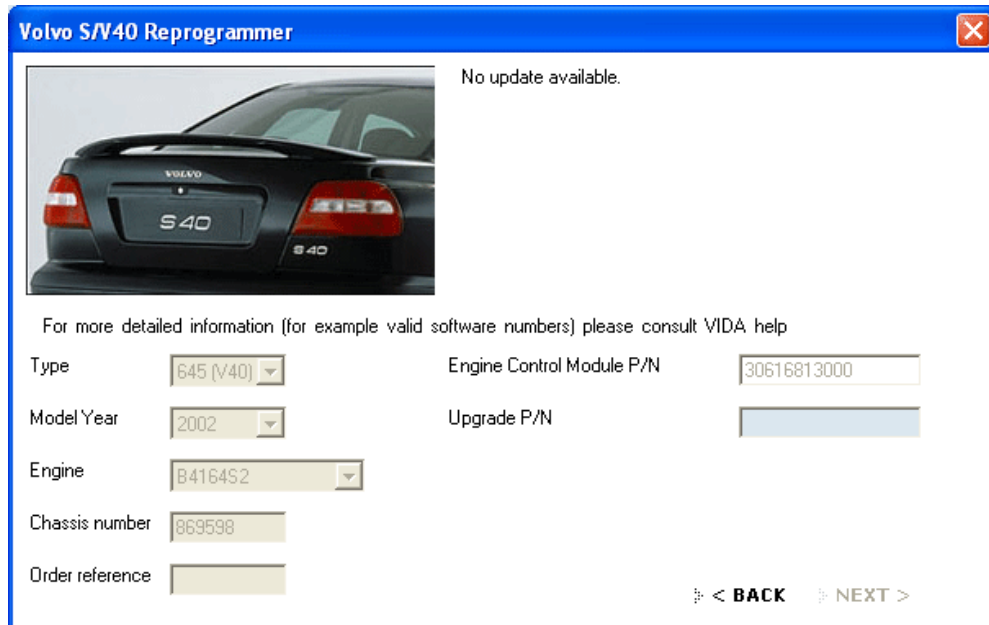
Other combinations may cause the application to not identify any updated software or wrong updated software.

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

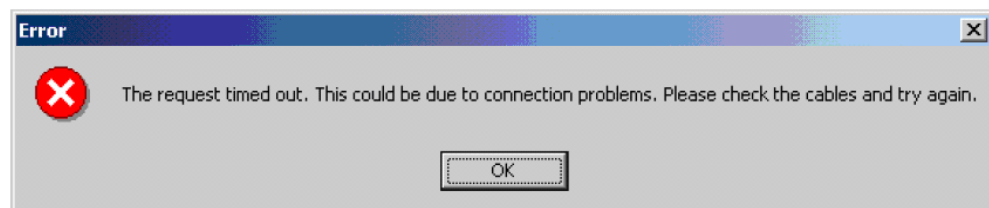


No update available for this control module.

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.

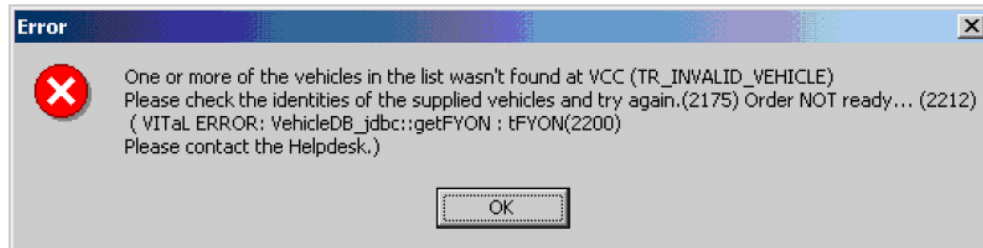
7.6.2 The request timed out



This error message indicates a communication problem. Possible causes:

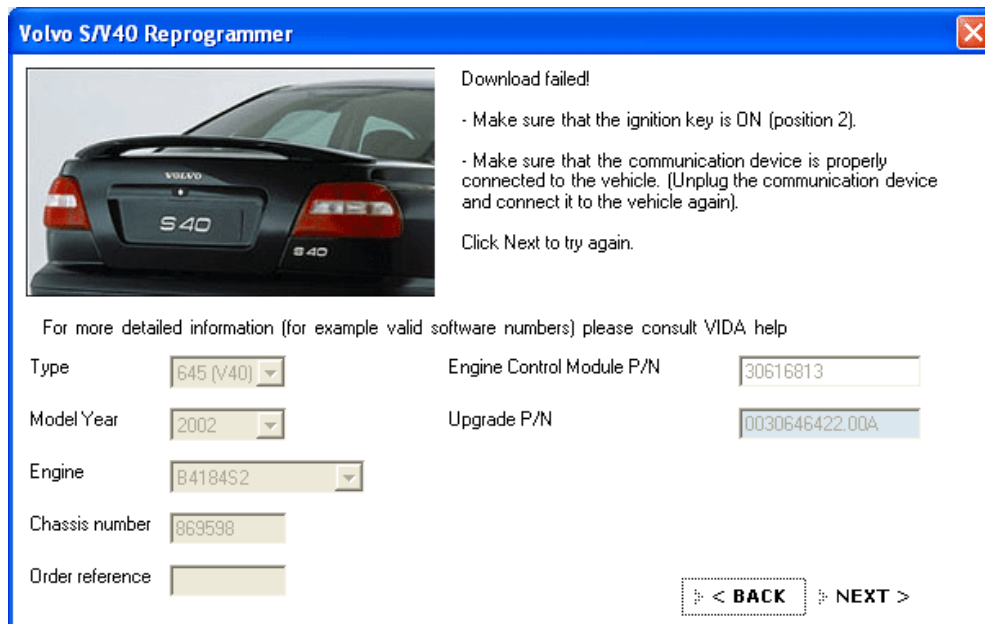
- DiCE is not connected to the vehicle or to the computer.
- Low battery level in the vehicle.
- Damaged cables or connectors.

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.

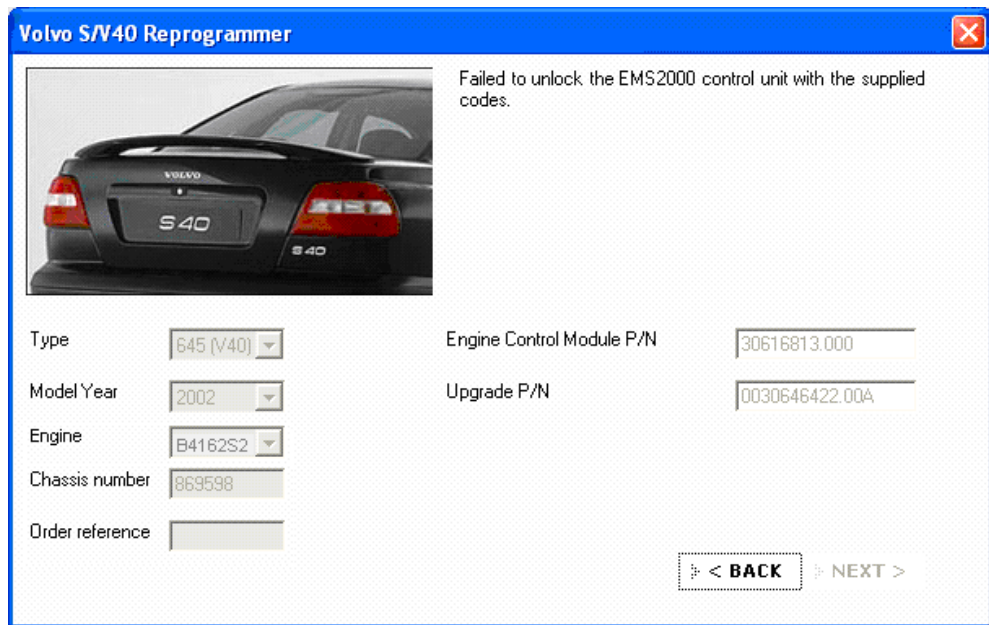
7.6.4 Download failed



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

Upgradeable part number (original part number)	Updated part number
30614300.00A	0030614352.00A
30614368.00A	0030614352.00A
30614386.00A	0030646426.00A
30614534.000	0030646426.00A
30614534.00A	0030646426.00A

Upgradeable part number (original part number)	Updated part number
30614602.00A	0030614352.00A
30614850.00A	0030646426.00A
30614942.00A	0030614352.00A
30614944.000	0030646426.00A
30614944.00A	0030646426.00A
30614959.00A	0030614352.00A
30616632.000	0030646426.00A
30616632.00A	0030646426.00A
30616667.000	0030646426.00A
30616667.00A	0030646426.00A
30616812.000	0030646426.00A
30616812.00A	0030646426.00A

B4164S3

Upgradeable part number (original part number)	Updated part number
30614403.00A	0030614352.00A

B4184S2

Upgradeable part number (original part number)	Updated part number
30614301.000	0030614423.00A
30614388.00A	0030646422.00A
30614535.000	0030646422.00A
30614535.00A	0030646422.00A
30614649.00A	0030614423.00A
30614851.00A	0030646422.00A
30614948.00A	0030614423.00A
30616633.000	0030646422.00A
30616633.00A	0030646422.00A
30616668.000	0030646422.00A

Upgradeable part number (original part number)	Updated part number
30616668.00A	0030646422.00A
30616813.000	0030646422.00A
30616813.00A	0030646422.00A

B4184S3

Upgradeable part number (original part number)	Updated part number
30614308.00A	0030614424.00A
30614365.00A	0030614423.00A
30614366.00A	0030614348.00A
30614367.00A	0030614424.00A
30614390.00A	0030646424.00A
30614703.00A	0030614424.00A
30614846.000	0030614348.00A
30614846.00A	0030614348.00A
30614852.00A	0030646424.00A
30614951.00A	0030614348.00A
30614953.00A	0030614424.00A
30616815.000	0030646424.00A
30616815.00A	0030646424.00A
30617259.000	0030646424.00A
30617259.00A	0030646424.00A

B4204S2

Upgradeable part number (original part number)	Updated part number
30614392.00A	0030646420.00A
30614536.000	0030646420.00A
30614536.00A	0030646420.00A
30614853.00A	0030646420.00A
30616634.000	0030646420.00A

Upgradeable part number (original part number)	Updated part number
30616634.00A	0030646420.00A
30616669.000	0030646420.00A
30616669.00A	0030646420.00A
30616814.000	0030646420.00A
30616814.00A	0030646420.00A

B4204S3/MAN

Upgradeable part number (original part number)	Updated part number
30614363.00A	0030614350.00A
30614651.000	0030614350.00A
30614651.00A	0030614350.00A
30614955.00A	0030614350.00A

B4204S3/AUT

Upgradeable part number (original part number)	Updated part number
30614364.00A	0030614351.00A
30614848.000	0030614351.00A
30614848.00A	0030614351.00A
30614957.00A	0030614351.00A

B4204T, B4204T2, B4204T3

Upgradeable part number (original part number)	Updated part number
30614223.000	0030670303.000
30614224.000	0030646766.000
30614232.000	0030684459.000
30614294.000	0030670303.000
30614295.000	0030646766.000
30614305.000	0030684459.000
30614345.000	0030670303.000

Upgradeable part number (original part number)	Updated part number
30614346.000	0030646766.000
30614361.000	0030646766.000
30614378.000	0030670303.000
30614408.000	0030670303.000
30614639.000	0030614244.000
30614641.000	0030614245.000
30614720.000	0030614244.000
30614722.000	0030614245.000
30614732.000	0030614235.000
30614733.000	0030614236.000
30614736.000	0030684459.000
30614838.000	0030684459.000
30614840.000	0030684459.000
30614860.000	0030614245.000
30614861.000	0030614244.000
30614864.000	0030614241.000
30614865.000	0030614240.000
30614868.000	0030614236.000
30614869.000	0030614235.000
30614882.000	0030646766.000
30614884.000	0030670303.000
30614888.000	0030684459.000
30614906.000	0030646766.000
30614909.000	0030614240.000
30614911.000	0030614235.000
30614913.000	0030670303.000
30614913.00A	0030670303.000
30617019.000	0030614240.000
30617027.000	0030614241.000
30644192.000	0030670302.000

Upgradeable part number (original part number)	Updated part number
30644193.000	0030684070.000
30644273.000	0030684070.000
30646646.000	0030670303.000
30646772.000	0030684078.000
30646775.000	0030670303.000
30646916.000	0030684078.000
30670304.000	0030684078.000
30858818.000	0030614244.000
30858819.000	0030614245.000
30858822.000	0030614241.000
30858825.000	0030614236.000
30858836.000	0030646766.000
30858838.000	0030670303.000
30882606.000	0030614244.000
30882607.000	0030614245.000

B4204T2 CVVT

Upgradeable part number (original part number)	Updated part number
30614232.000	0030684459.000
30614305.000	0030684459.000
30614405.000	0030684459.000
30614736.000	0030684459.000
30614838.000	0030684459.000
30614840.000	0030684459.000
30614888.000	0030684459.000
30644229.000	0030684460.000

B4194T, B4194T2 /MAN

Upgradeable part number (original part number)	Updated part number
30614635.000	0030614246.000
30614724.000	0030614246.000
30614728.000	0030614237.000
30614842.000	0030614237.000
30614859.000	0030614246.000
30614863.000	0030614242.000
30614867.000	0030614237.000
30617003.000	0030614242.000
30858816.000	0030614246.000
30858821.000	0030614242.000
30858824.000	0030614237.000
30882604.000	0030614246.000

B4194T, B4194T2 /AUT

Upgradeable part number (original part number)	Updated part number
30614637.000	0030614247.000
30614726.000	0030614247.000
30614729.000	0030614238.000
30614843.000	0030614238.000
30614858.000	0030614247.000
30614862.000	0030614243.000
30614866.000	0030614238.000
30617011.000	0030614243.000
30858817.000	0030614247.000
30858820.000	0030614243.000
30858823.000	0030614238.000
30882605.000	0030614247.000

B4204T5

Upgradeable part number (original part number)	Updated part number
30614225.000	0030670509.000
30614296.000	0030670509.000
30614362.000	0030670509.000
30614886.000	0030670509.000
30644190.000	0030670508.000
30644216.000	0030670508.000
30646769.000	0030670509.000
30858837.000	0030670509.000

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**

→ 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**.

→ 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 earlier read out cars

1. Select a car from the list with earlier 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 registration 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)

8.6.1 To add CSC (Customer Symptom Codes), without DMS

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. Mark one or more CSC that are to be added.
→ CSC can also be searched for using the search function in VIDA.
5. Click on **ADD TO LIST**.
→ CSC are added under the **WORK LIST** tab.
6. Click the **WORK LIST** tab.
→ The added codes are displayed.
New CSC codes can also be added via the search function on the **WORK LIST**.
CSC can be removed by marking the check box and clicking **DELETE CSC**. The entire list is erased by clicking **DELETE** without having any items marked.

8.6.2 To add CSC (Customer Symptom Codes), with DMS

1. Enter the vehicle's registration number and click **RETRIEVE FROM...**
→ VIN is retrieved from DMS.
2. Select **WORK ORDER**.
→ The **CSC** tab can be accessed.
3. Click the **CSC** tab.
→ Tree structure with CSC is displayed.
4. Click on the heading in the CSC list 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 TO 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...**
→ DMS verifies with a message in VIDA.

8.6.3 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

8.7.1 Adding a part to a parts list or a work List

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 on **ADD TO LIST** or press the **RETURN** button.
→ 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**.

8.7.2 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.
→ A dialog is shown where you can choose to browse a file.
3. Click on the **Browse** button.
→ A dialog is shown where you can browse the file to be imported.
4. Select the file and click on the **Open** button.
→ A dialog is shown where you can choose to import the file.
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.
→ The list is imported.

8.7.3 Get the corresponding exchange parts number

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

TECHNICAL JOURNALS
REPORT TO TIE
VEHICLE DETAILS
HELP

Anna Andersson, EUR > LOG OUT

START VEHICLE PROFILE INFORMATION PARTS LIST DIAGNOSTICS SOFTWARE **SEARCH**

Vehicle profile

On Off

Search for:
Part description Part number

*** and 31202212 Notes

All Any

SEARCH
STOP
BACK

Result 1 - 1 of total 1

Function group	Part number	Part description	Notes	PS	Vehicle profile	Title
99	> 36000792	Steering box, exch	EXCH FOR 31202212.	EU	All Models*	Exchange system steering box L.H.D

Fig. 45 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.

3.

TECHNICAL JOURNALS
REPORT TO TIE
VEHICLE DETAILS
HELP

Anna Andersson, EUR > LOG OUT

START VEHICLE PROFILE INFORMATION PARTS LIST DIAGNOSTICS SOFTWARE **SEARCH**

Vehicle profile

On Off

Search for:
Part description Part number

*** and 31202212 Notes

All Any

SEARCH
STOP
BACK

Result 1 - 1 of total 1

Function group	Part number	Part description	Notes	PS	Vehicle profile	Title
99	> 36000792	Steering box, exch	EXCH FOR 31202212.	EU	All Models*	Exchange system steering box L.H.D

Fig. 46 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.

TECHNICAL JOURNALS
REPORT TO TIE
VEHICLE DETAILS
HELP

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START VEHICLE PROFILE INFORMATION PARTS LIST DIAGNOSTICS SOFTWARE SEARCH

Vehicle profile

☐ On ☒ Off

Search for:
☐ Part description ☒ Part number
 SEARCH STOP BACK

☐ Include notes

Result 1 - 3 of total 3

Function group	Part number	Part description	Notes	PS	Vehicle profile	Title
99	36000792	Steering box, exch	EXCH FOR 31202212.	EU	All Models*	Exchange system steering box L.H.D
642	36000792	Steering box, exch	CH -95185 4CYL 245/40, 245/45	EU	S80 (07-), 2007, 8322476, L.H.D S80 (07-), 2007, 863245, L.H.D S80 (07-), 2008, 8420453, L.H.D S80 (07-), 2008, 8420454, L.H.D S80 (07-), 2008, 8525476, L.H.D S80 (07-), 2008, 8630412, L.H.D S80 (07-), 2008, 863245, L.H.D S80 (07-), 2009, 8420453, L.H.D S80 (07-), 2009, 8420454, L.H.D	Steering box STD

Fig. 47

- 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.

TECHNICAL JOURNALS
REPORT TO TIE
VEHICLE DETAILS
HELP

Anna Andersson, EUR [LOG OUT](#)

START VEHICLE PROFILE INFORMATION PARTS LIST DIAGNOSTICS SOFTWARE SEARCH

PARTS REPAIR PRODUCT SPECIFICATIONS FAULT TRACING BULLETINS

642 : Steering box STD

PRINT

Fig.	Description	Qty.	PS	Part number
1	Steering box, exch	1.00	EU	36000792
	CH-95185, 4CYL 245/40, 245/45			
	Steering box, exch	1.00	EU	36002728
	CH 95186-, 4CYL 245/40, 245/45			
	Steering box, exch	1.00	EU	36002729
	4CYL 205/60, 225/50, 225/55			
	Steering box, exch	1.00	EU	36002248
	CH-95185, 5CYL 245/40, 245/45			
	Steering box, exch	1.00	EU	36002728
	CH 95186-, 5CYL 245/40, 245/45			
	Steering box, exch	1.00	EU	36000348
	CH-10635, 5CYL 205/60, 225/50, 225/55, (860392)			
	Steering box, exch	1.00	EU	36002249
	CH 10636-95185, 5 CYL 205/60, 225/50, 225/55			
	Steering box, exch	1.00	EU	36002729
	CH 95186-, 5 CYL 205/60, 225/50, 225/55			
	Steering box, exch	1.00	EU	36002250
	CH-95185, 6CYL 245/40, 245/45			
	Steering box, exch	1.00	EU	36002731
	CH 95186-, 6CYL 245/40, 245/45			
	Steering box, exch	1.00	EU	36002732
	6CYL 205/60, 225/50, 225/55			
3	Protecting plate	1.00		31202133
	6CYL			
4	Sealing	1.00		31202359
6	Six point socket screw	2.00		983987
	M5x10			
7	Flange screw	2.00		30741269
	M14x95			
8	Flange nut	2.00		998093
	M14x18.2			
9	Protecting plate	1.00		30776233
10	Plastic nut	3.00		980740

ADD TO LIST My artikellista 1

DETAILS COMMENTS

CH-95185-, 4CYL, 245/40, 245/45

Fig. 48

- 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 response 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 → FAULT TRACE**.
 - 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**
 - 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.
 - 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.
 - A new read out can be performed on all control modules.

8.8.4 Troubleshooting using vehicle communication – parameters

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 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 8.9.6 Switch between vehicles on page 109.*
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 8.9.11 Remove software product from the list on page 110.*
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 8.9.12 Revoke a software purchase on page 110.*
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 8.9.15 Negative result when verifying the programming command on page 111.*

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 Purchasing and downloading software, for independent operators

**NOTE**

Applies to independent operators.

This describes how independent operators order and download software in VIDA All-in-one.

1. Connect a DiCE or other J2534 device to the vehicle.
2. Select the communication tool in the Communication tool drop-down list.
3. Fully profile the vehicle by clicking on **READ VEHICLE**.
→ Fully profiling a vehicle includes; Model, Year, Engine, Transmission, Steering and Body style.
4. Click **OK**.
5. Before downloading software you must read, fully fault trace and clear all Diagnostic Trouble Codes.
To clear Diagnostic Trouble Codes go to the **Delivery** tab.
6. Click on the **SOFTWARE** tab.
7. Enter Order Reference information (Order Reference number is mandatory. We suggest using last 6 of VIN or RO number). This will allow you to match your download with the vehicle you are working on.
8. Underneath **Software product** click on the shaded box with (3) ... to display software available for the vehicle that you have profiled. Highlight the software which you would like to download. Click on **ADD**.
9. Click the **PURCHASE** button to purchase the software for download.
→ This will bring up a pop-up redirecting you to Volvotechinfo.com to complete the purchase process.
10.  **NOTE**
If the **PURCHASE** button does not highlight you will need to return to the **VEHICLE PROFILE** tab and do the following:
 1. Click **CLEAR VEHICLE PROFILE**, found on the bottom of the page.
 2. Click **READ VEHICLE** (do not select vehicle from the Last Identified Vehicles).
 3. Complete vehicle profile.
 4. Go back to the **SOFTWARE** tab. The **PURCHASE** button should be now be highlighted. Continue with the purchase.
11. Enter your Volvotechinfo Username and Password.
12. Verify your download purchase, read disclaimer and click **I agree (checkout)**.
13. Enter your **Shipping Information**. Click **Next**.

14. Enter your **Billing Information**. Click **process order**.

**NOTE**

Effective June 1, 2009: **we will be implementing Address Verification Service**.

Address Verification Service (AVS) verifies the address provided by a customer at the time of the credit card transaction.

Having a credit card from a Bank or Institution which support Address Verification Service will be a requirement for making any credit card purchase transactions. AVS is supported by most US banks and some international banks.

If your credit card provider does not support AVS your purchase transaction request will be declined.

15. You will receive your order confirmation stating **Checkout Complete**. You will have to close this window to be able to complete the download through VIDA.
16. Once back in VIDA go to the **SOFTWARE** tab and select **QUERY ORDER**.
→ A dialog will appear.
17. Click **YES**.
→ A window opens containing a list of placed orders.
18. Highlight the part number to be downloaded and click **ADD TO LIST**.
The software part number is added to the **SOFTWARE LIST**.

**NOTE**

You can remove software from your list by highlighting the part number and clicking **REMOVE**.

19. To activate the download click on **RETRIEVE**. This will allow the computer to read the car and speak with our servers to build the software package to be downloaded.

**NOTE**

Once you have clicked **RETRIEVE** you can click **REVOKE** to cancel the software from becoming downloadable. If this is done you will need to file a help request for credit for revoked software.

20. After the software has been retrieved the **CONTINUE** button will become highlighted. Click on **CONTINUE**.
→ A unique vehicle download tab for the corresponding vehicle will be created.

21. 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.

22. 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.

23. 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.

24. 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.
25. 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.

8.9.3 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.

8.9.4 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.

8.9.5 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.

8.9.6 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.

8.9.7 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**.

8.9.8 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.

8.9.9 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.

8.9.10 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.

8.9.11 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.

8.9.12 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.

8.9.13 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.

8.9.14 New order in case of non-matching vehicle configuration

1. If VIDA complains 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.

8.9.15 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 download.
→ Downloading is resumed.

9 ABBREVIATIONS

ABL	– Active BI-xenon lights
ABS	– Anti-lock brakes
	– Anti-lock Brake System Module
AC	– With air conditioning
ACC	– With automatic climate control
ACM	– Alternator Control Module
ADM	– Additive Dosing Module
AEM	– Accessory Electronic Module
AFM	– AM/FM Tuner Module
ALTER	– Alternative
AMP	– Amplifier
AQS	– Air Quality Sensor
AT	– Automatic transmission
ATM	– Control module antenna (Antenna Module)
AUD	– Control module audio (Audio Module)
AUM	– Control module audio (Audio Module)
AUTO.TRANS	– Automatic transmission
AUX	– Auxiliary equipment input
AWD	– Four-wheel drive
AYC	– Active Yaw Control Sensor
BCM	– Brake Control Module
BLIS	– Blind Spot Information System
BMM	– Battery Management Module
BODY –XXXX	– Up to and incl. body number
BODY XXXX–	– FROM and incl. body number
BSC	– Body Sensor Cluster
CARB	– Carburetor engine
CC	– With cruise control
CCA	– Cold Cranking Amperes
CCM	– Climate Control Module
CD	– Compact disc
CEM	– Central Electronic Module
CH –XXXX	– Up to and incl. chassis number
CH XXXX–	– From and incl. chassis number
CH APP –XXXX	– Up to and incl. chassis number around
CH APP XXXX–	– From and incl. chassis number around
CHMSL	– Extra brake light
CH TYPE	– Chassis type
CLS	– Central locking system
CNG	– Compressed natural gas
COAX	– Coaxial cable
CODE	– Code (upholstery code, color code)
COMBU	– Heater can be combined with air conditioning
COMPL	– Complete
CPM	– Control module auxiliary heater (Combustion Preheater Module)
CRM	– Control module convertible roof (Convertible Roof Module)
CSC	– Customer Symptom Codes
CSPEAK	– Centrally-mounted speaker
CVT	– Continuous, variable transmission
CYL	– Cylinder
DDM	– Control module driver door (Driver Door Module)
DEM	– Control module four-wheel drive (Differential Electronic Module)
DIM	– Combination instrument (Driver Information Module)
DMM	– Control module damper motor (Damper Motor Module)
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
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
MP1	– MD Player Module
MP2	– CD Player Module
MW	– Mechanical windows

NVM	– Night Vision Module
O.DIA	– Diameter, outer
OPTIC	– Fiber optics
O.S	– Oversize
ORS	– Occupant Remote Sensor
OWS	– Occupant Weight Sensor
PAM	– Parking Assistance Module
PCS	– Pieces
PDI	– Pre Delivery Inspection
PDM	– Passenger Door Module
PHM	– Phone Module
PIE	– Product Information Exchange, a VCC-system
PS	– Power steering
PSM	– Power Seat Module
PTC	– Positive Temperature Control
PW	– Power windows
RATIO	– Ratio
R.AX	– Rear axle
RCM	– Right Camera Module
RDM	– Right Rear Door Module
REM	– Rear Electronic Module
REPL	– Replaced by
RH	– Right
RHD	– Right-hand drive
RHT	– Right-hand traffic
R.R	– Raised roof
R.STAB	– Rear stabilizer
RKE	– Receiver keyless vehicle (Remote Keyless Entry)
RRW	– Run off road warning
	– Run off Road Warning Module
RRX	– Remote Receiver Module
RSC	– Roll Stability Control
RSE	– Rear Seat Entertainment
	– Rear Seat Entertainment Module
RSM	– Rain Sensor Module
RTI	– Road Traffic Information
	– Road Traffic Information Module
RULO EVAP	– Continuously functioning evaporation system
SAS	– Steering wheel angle sensor
	– Steering Wheel Angle Sensor Module
SCL	– Steering Column Lock
	– Steering Column Lock Module
SCM	– Siren Control Module
SCU	– Start Control
	– Start Control Module
SEE FIG	– See position
SHM	– Seat Heating Module
SPCL	– Special version
S.R	– Sun roof
SRM	– Sun Roof Module
SRS	– Supplementary Restraint System Module
STD	– Standard version
STD.DIM	– Standard dimension
SUB	– Subwoofer
	– Subwoofer Module
SUM	– Suspension Module
S.W	– Station wagon
SWM	– Steering Wheel Module
SWSL	– Steering Wheel Switch Left

SWSR	– Steering Wheel Switch Right
TACDIS	– Dealer Management System in Sweden
TCM	– Transmission Control Module
THK	– Thickness
TIE	– Technical Information Exchange, a VCC-system
TMC	– Traffic message
	– Control module (Traffic Message Channel Module)
TRACS	– Traction control system
TRANS	– Transmission
TRANS – XXXX	– Up to and incl. transmission number
TRANS XXXX–	– From and incl. transmission number
TRM	– Trailer Module
TWC	– Three way catalytic converter
UEM	– Upper Electronic Module
US	– Undersize
VAC EVAP	– Vacuum-controlled return system fuel vapors (see EVAP)
VCC	– Volvo Car Corporation
VVT	– Variable valve timing
WI	– Width
WMM	– Wiper Motor Module
WRG	– Water-repellent glass
WSL	– Web Single Login
W/O	– Without
2VVT	– Double variable valve timing
4CYL	– Gasoline engine 4 cylinder
5CYL	– Gasoline engine 5 cylinder
6CYL	– Gasoline engine 6 cylinder
4DRS	– 4 door car
5DRS	– 5 door car
2 VALVE	– 2 valves/cylinder
4 VALVE	– 4 valves/cylinder
2WD	– Two-wheel drive

10 UNITS

Ω	– Ohm
A	– Ampere
Ah	– Ampere hours
C	– Celsius
cm	– Centimeter
gallon UK	– 1 gallon (UK) = 4.546 liters
gallon US	– 1 gallon (US) = 3.785 liters
h	– Hour
hp	– Horsepower, 1 hp = 0.7355 kW
inch	– 1 inch = 2.54 cm
km	– Kilometer
km/h	– Kilometer per hour
kW	– Kilowatt
l	– Liter
m	– Meter
mm	– Millimeter
mm ²	– Square millimeters
mph	– Miles per hour, 1 mph = 1.6 km/h
N	– Newton
Nm	– Newton meter
r/min	– Revolutions per minute (rpm)
V	– Volt
W	– Watt

11 PS CODES

- EU – Exchange unit (supplementary information, see Volvo parts catalog)
- 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

Code	Meaning
AU	– Australia
BE	– Belgium
CA	– Canada
CHN	– China
DE	– Germany
ES	– Spain
EU	– Europe
FR	– France
GB	– United Kingdom
HK	– Hong Kong
IT	– Italy
IL	– Israel
IS	– Island
JP	– Japan
MY	– Malaysia
NO	– Norway
NL	– The Netherlands
PT	– Portugal
TW	– Taiwan
ID	– Indonesia
KR	– Korea
PH	– Philippines
SE	– Sweden
FI	– Finland
SG	– Singapore
TH	– Thailand
TR	– Turkey
US	– United States of America
ZA	– South Africa

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.

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