

VCDS® Toolbox usermanual v.1.06



for



NEtech ApS

10/2022

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Chapter 1 Introduction

1.1 Background information

First a little background for making the VCDS® Toolbox program.

First reason was to show some more information of all the produced Autoscan, especially to search directly in wiki for fault codes.

Then it would be good to have one place, where VCDS users could start/find all programs/files/information.

Latest item is Battery history, that also can be started direct from VCDS, after reading battery history data:

Start VCDS

- [Applications]
- [History Data]
- [Analyze]

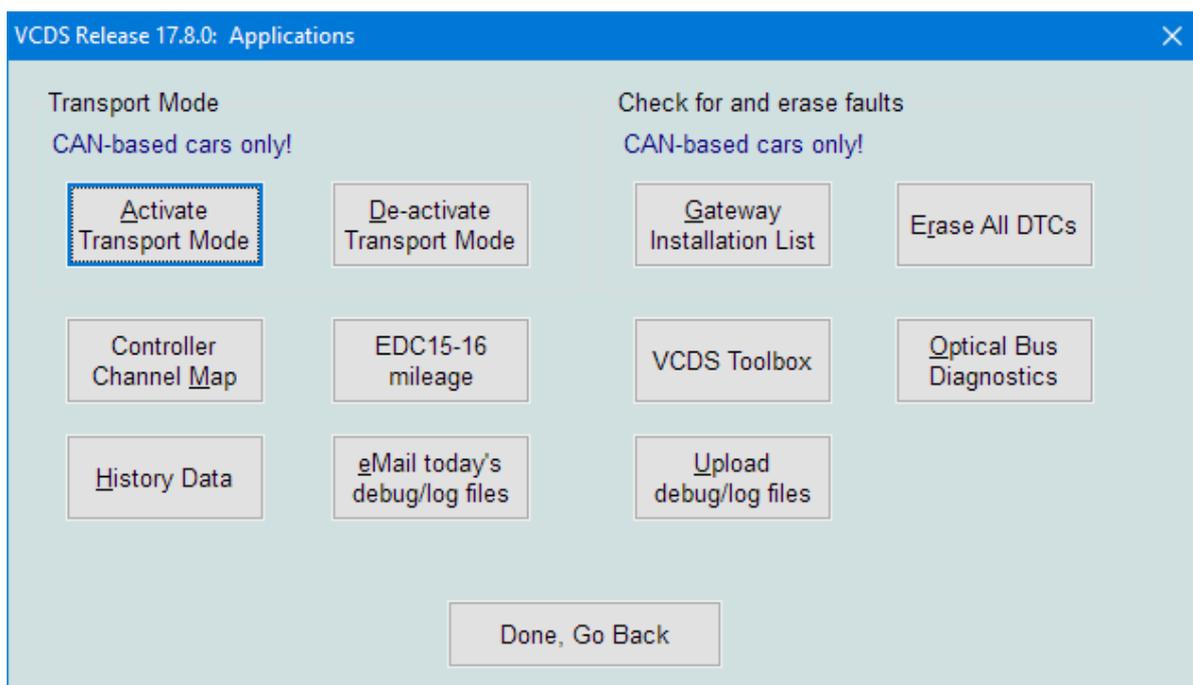
VCDSToolbox can be started from the VCDS® program, like this:

Start VCDS

- [Applications]
- [VCDS Toolbox]

If you have installed VCDSToolbox with the separate installer program, you also have an shortcut on the Desktop.

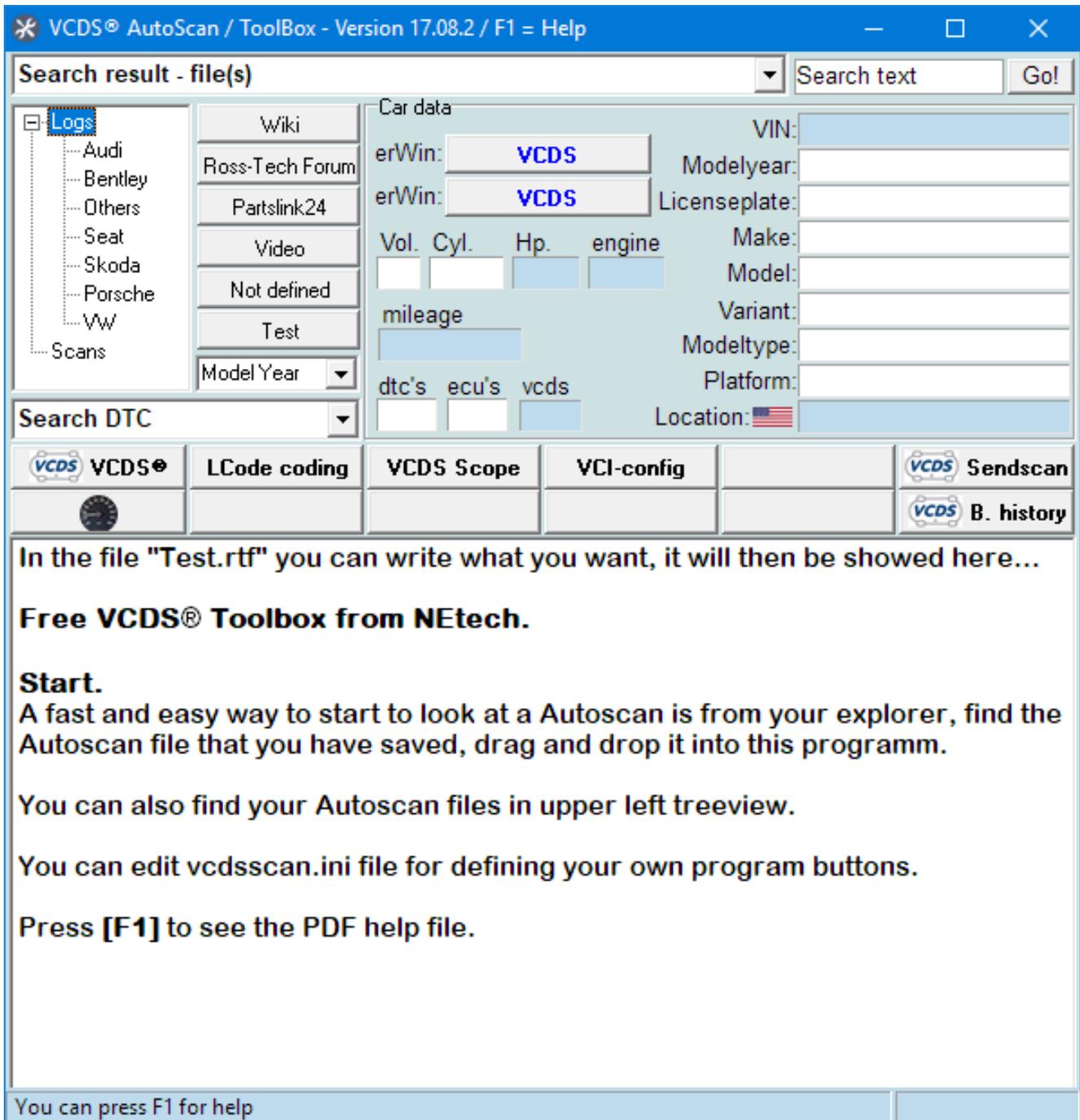
Press [ESC] on your keyboard, to close VCDS® Toolbox. Or press the normal Windows close X, upper right corner in the program window.



Figur 1 VCDS Applications

Chapter 2 Start-up information

2.0 Start screen information



Figur 2 VCDS Toolbox startscreen

The fields with light blue background have actions, when you double click on them. See explanation in the white field in Figure 2.

2.1 Program buttons

The screenshot shows the VCDS AutoScan / ToolBox interface with the following elements and annotations:

- Search result - file(s)**: 9
- Search text**: Go!
- Wiki**: 9
- Car data**:
 - erWin: **Audi** 2
 - erWin: **Audi US**
 - Vol. Cyl. Hp. engine: 1,4 R4 **150** CZEA 11
 - mileage: **26654 km** 6
 - dtc's: 0
 - ecu's: 16
 - vcds: **US** 3
- VIN**: **WAUZZZ8V** 4
- Modelyear**: 2015
- Licenseplate**:
- Make**: Audi
- Model**: A3
- Variant**:
- Modeltype**: 8V
- Platform**: (MQB) 12
- Location**: **Ingolstadt**
- Model Year**: 10
- F1 = Help**
- Search DTC**: 1
- VCDS** buttons: LCode coding, VCDS Scope, VCI-config, 8, Sendscan, B. History
- 13**: A large blue number indicating the current page or item count.
- Copy text**: A red arrow pointing to the text area.
- NEXT**: A blue button at the bottom right.
- 7**: A red number next to the last address entry.
- og-WAUZZZ8V3, -26654km-16562mi.txt**: A red box around the file name.
- 2013...**: A red box around the year.

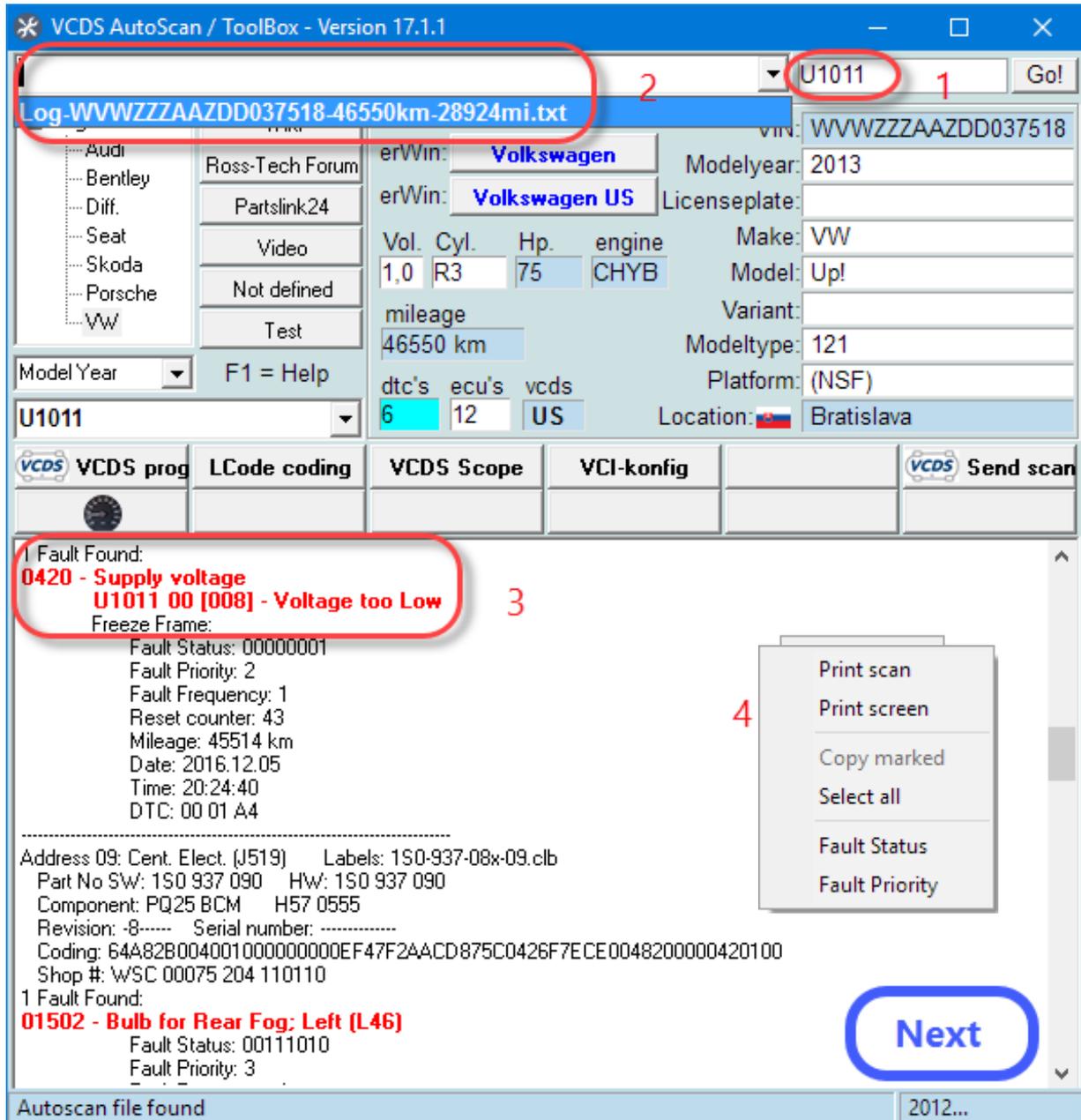
Figur 3 Startscreen buttons

See explanation for numbers on this screenshot on the next page:

1. Start search on Wiki Ross-Tech, for the chosen DTC from the list.
2. Opens erWin of the showed manufactor.
3. Opens home page of the distributor of current AutoScan.
4. Opens Partlink24 home page. If you already have that home page open, just click "No", then the VIN is just copied to Windows buffer. To use Partlink24 you need an "Daily", "Monthly" or "Yearly" access
5. If engine hp is showed, double click changes to kW and back again.
6. If mileage in km is showed, double click changes to miles and back again.
7. Opens the current AutoScan file in your default text program.
8. All buttons, except the right on both rows, are shortcuts to programs you can change/define in the vcdsscan.ini file.
9. Here are links to Ross-Tech wiki and other important home pages.
10. If you need to find Car Model year from digit 10 in VIN.
11. Double click to see wiki about VW engines, or write engine code and press TAB on your keyboard.
12. Shows the city/area where the car is manufactured.
13. Opens window for analyzing battery history files made by VCDS.

A double click on the fields showed with red marker "Copy text", will copy the current text to Windows Clipboard.

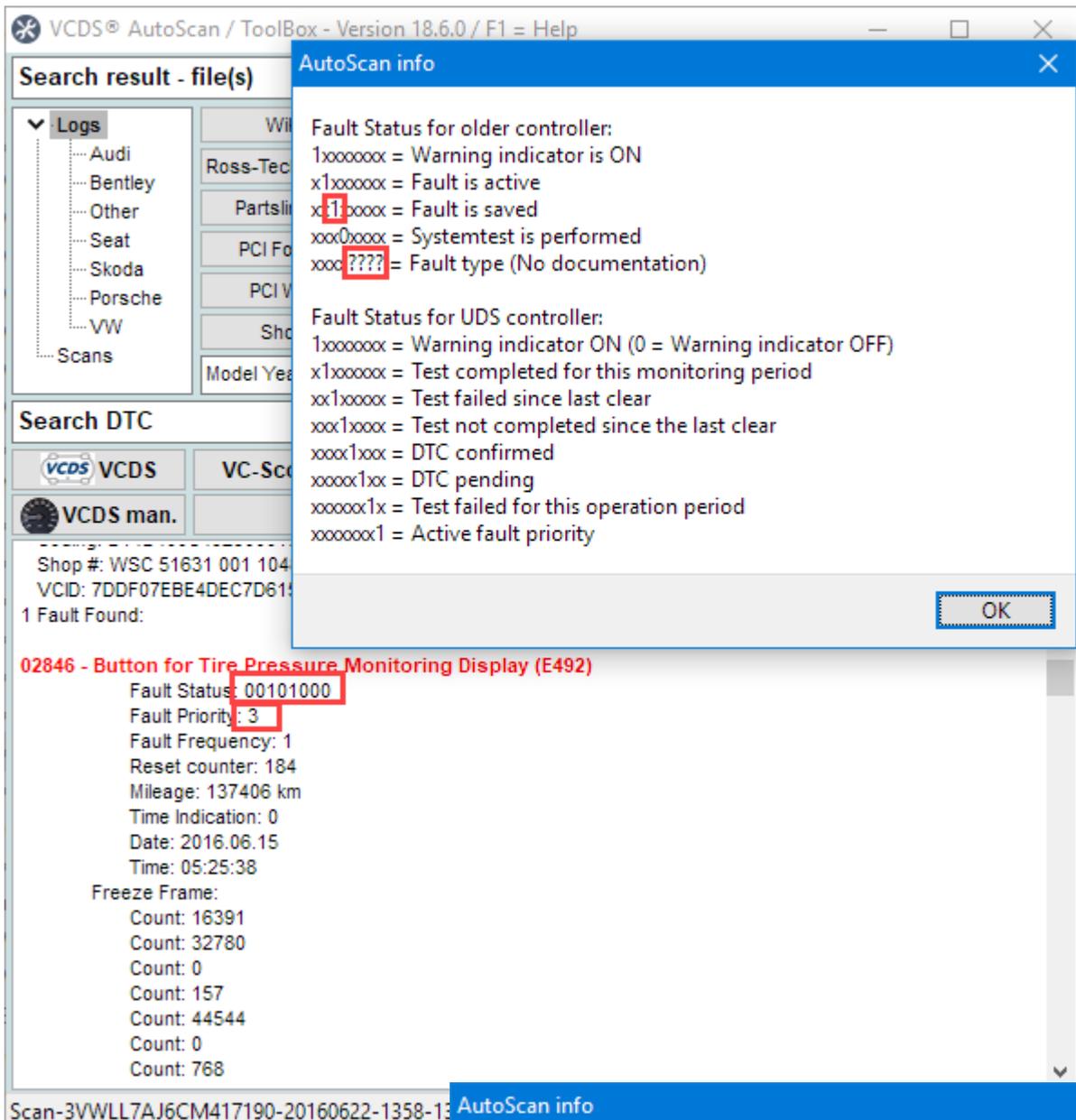
2.2 Search in Autoscan(s)



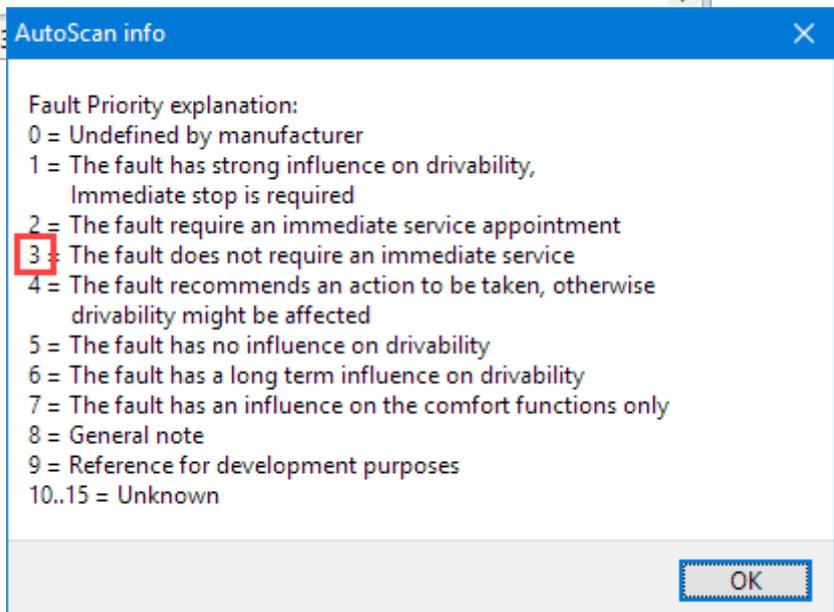
Figur 4 Search in Autoscan

1. Start search on Ross-Tech Wiki, for the chosen DTC from the list.
You can also search for Acronyms/Abbreviations here, if write "fod" and press "Enter", the text "Function On Demand" and "Features On Demand" is shown.
2. Enter a search string (here in this example it is: U1011) and click on **[Go!]**.
Now all Autoscan filenames and text inside AutoScan are searched, and a pull-down menu with the right file(s) are made. Click on the file you want to load.
3. You can also double click on the red line, where DTC is showed, that will use the DTC and search on Ross-Tech wiki.
4. If you right click on the white text field, after an Autoscan is loaded, you can print the text to your default printer. You can also get information on Fault Status and Fault Priority, see more on next page.

2.3 Right click

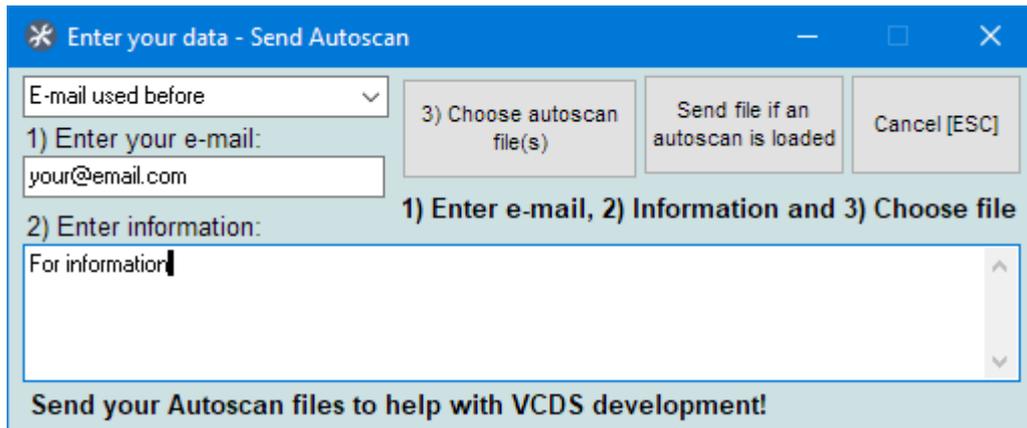


Figur 5 Right click Fault Status



Figur 6 Right click Priority Status

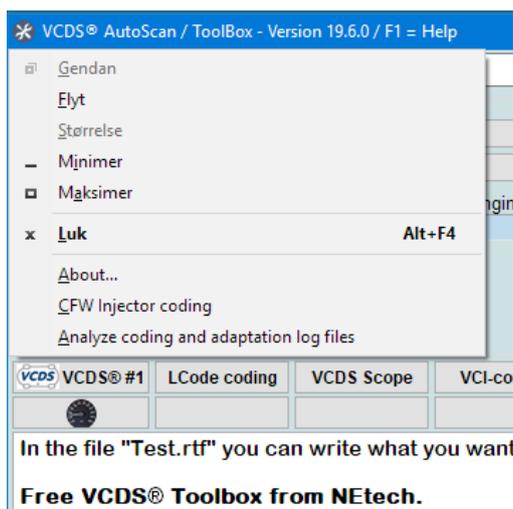
2.4 Send Autoscan



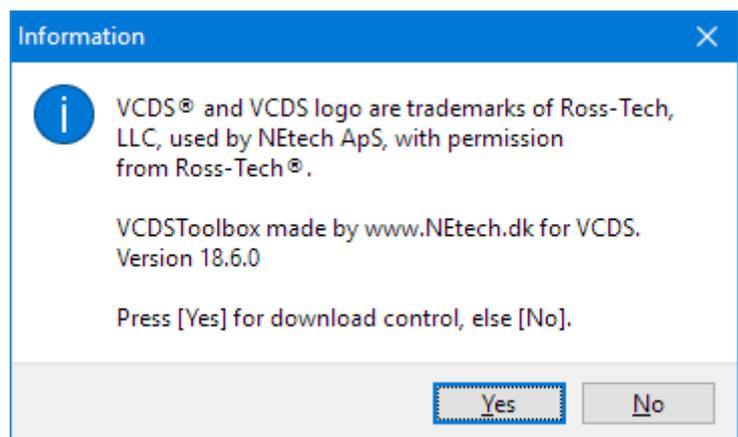
Figur 7 Send Autoscan files

If you use the button **[Sendscan]**, the loaded Autoscan (if you use **[Send current file]**) or the chosen file(s) (if you use **[Choose autoscan file]**), will then automatically be uploaded to NEtech ftp. Use the sequence, 1) 2) 3). Remember, the more Autoscan you send, VCDS will become even better. **It is not for support question!**

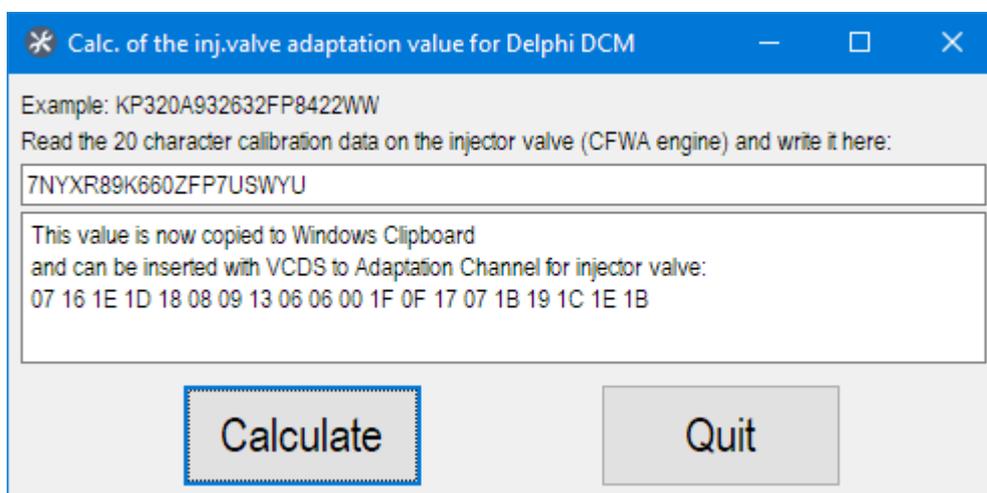
2.5 Window menus



Figur 8 Click on top left icon for this menu

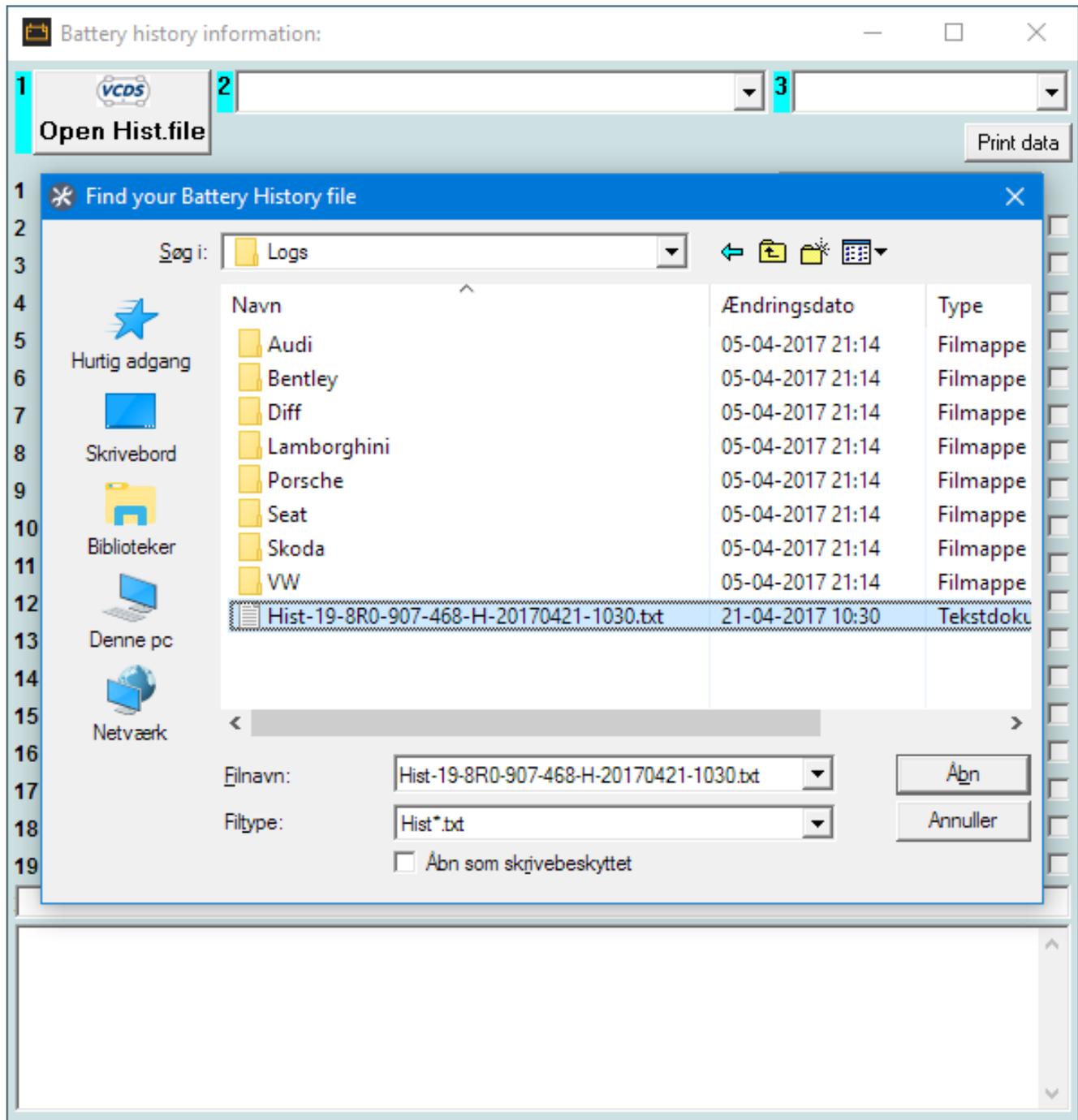


Figur 9 VCDSToolbox information



Figur 10 Calculation for CFWA injector calibration

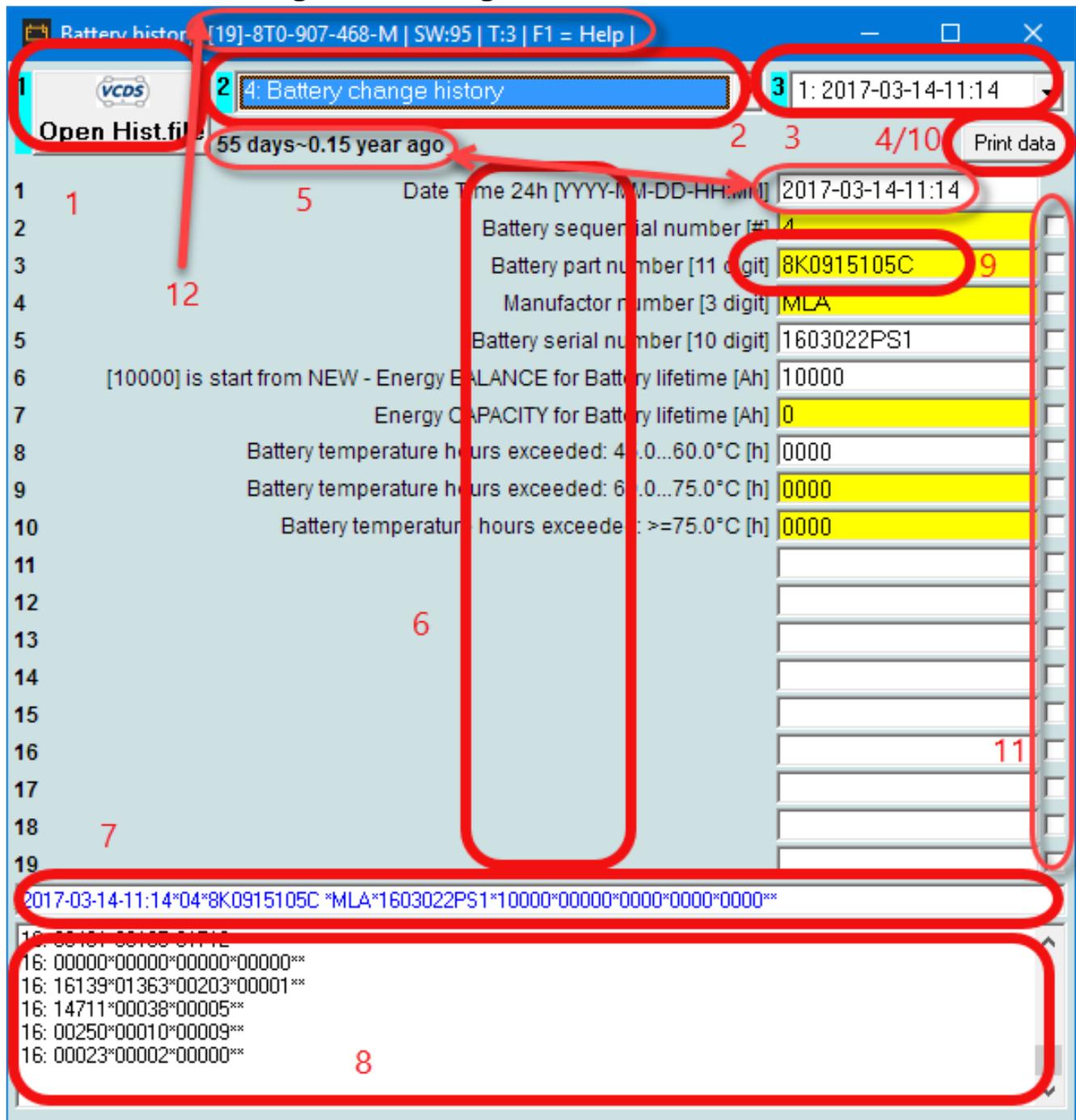
2.6 Battery history



Figur 11 Open Battery history file

This is the start screen, when you press [B. History]. Click on the file saved by VCDS, that you want to analyze.

2.7 Battery history screen 1



Figur 12 Battery history startscreen

Instructions for the battery history software. See next page.

Explanation for numbers shown on Figur 12.

1. Open/find for the history file(s) that have been saved by VCDS® (from version 17.2.x)
They are normally placed in \Ross-Tech\VCDS\Logs
2. To go through the history records, you can click on the pull-down, or just press "Arrow down/up", when the pull-down menu 2) is active.
3. Then view the different lines in the chosen history data record / LifeCycle (with "Arrow down/up").
4. The Records/LifeCycleData looked at can be printed to default printer.
5. Here is the difference between current date and the date for current chosen line shown.
6. All known information (some maybe guessed) for each line is shown.
7. This shows the raw data read by VCDS for the chosen line.
8. Here you can scroll through all raw data lines, read by VCDS.
9. For data fields with yellow background, move the cursor over the field, to view information for shown data
10. When 2 data lines are chosen (11) then you can click on **[Graph]**. Click once again on **[Graph]** to remove the Graph.
11. If data can be shown as graphic curves, click on 1 or 2 lines on the right boxes.
12. Information data, here is: [19] Controller address / Part number / [SW:] is ECU software version. [T:4] is a intern data type for the shown history file information.

Press [F1] on your keyboard, for a short help.

All data shown in pull-down menu 2) (Figur 12.)

LifeCycleData / Record 1/16: No-load voltage underranging
LifeCycleData / Record 2/16: No-load current overranging
LifeCycleData / Record 3/16: Shut-off stage history
LifeCycleData / Record 4/16: Battery change history
LifeCycleData / Record 5/16: Energy-critical vehicle states
LifeCycleData / Record 6/16: Energy balances (last 20 trips)
LifeCycleData / Record 7/16: Energy balances (last 20 standing times)
LifeCycleData / Record 8/16: Battery manipulation (e.g. charging)
LifeCycleData / Record 9/16: Battery aging
LifeCycleData / Record 10/16: Dynamic energy management
LifeCycleData / Record 11/16: Recuperation
LifeCycleData / Record 12/16: Start-Stop
LifeCycleData / Record 13/16: Sporadic alternator faults
LifeCycleData / Record 14/16: Small battery for hybrid vehicle
LifeCycleData / Record 15/16: Local activ.
LifeCycleData / Record 16/16: Vehicle energy balance

2.8 Which controller to choose in VCDS.

How do I know which controller has Battery historie and if it is supported ?

Either the car has its own Control Module **[61 Battery Regul.]** or there is a subsystem under **[19 CAN Gateway]**, like this example for **[19 CAN Gateway]**:

Battery Monitoring Control Module:

Subsystem 3 - Part No SW: 850 915 181 C HW: 850 915 181 C

Component: J367-BDMHella H10 9070

When it is a subsystem for CAN Gateway, then Battery historie must also be coded and supported in that Control Module, to be able to read historie data from it with VCDS!

2.9 Battery history information

Battery history is defined by different LifeCycleData / Records, normally 1..16 (but there can probably be 1..30).

Qv is a number for aging of the battery [Ah].

LifeCycleData / Record 1. (No-load voltage under ranging)

Data saving is done when:

1. Ignition is OFF minimum 2 hours.
2. Quiescent current (No load) below 100 mA.
3. CAN Comfort in sleep mode.

LifeCycleData / Record 2. (No-load current over ranging)

Data saving is done when:

1. Ignition is OFF minimum 2 hours.
2. Quiescent current (No load) higher 50 mA.
3. CAN Comfort in sleep mode.

LifeCycleData / Record 3. (Energy critical stage / Liegenbleiber)

A log entry is made here, if the battery cannot start the engine!

A log for this CycleData, is possible only one time during Engine OFF phase. A new log is first possible when driving minimum 20 km, after last log.

A CAN alive time, is started when the bus system is active and stopped when not active, during Standing time.

LifeCycleData / Record 4 (Shut-of stage)

CAN alive count is activated when:

A shut-off CAN message is send and a parking heater bit CAN change is observed.
If both change at the same time, only one event is saved.

LifeCycleData / Record 4 or 5 (Battery change).

Battery change information is important for: Audi, Service and Car owner

So because of this, you should only do Battery Coding when Battery is really exchanged!

All current Battery history is erased (except earlier Battery changes), when Battery is coded.

LifeCycleData / Record 5. (Energy-critical states)

LifeCycleData / Record 6. (Energy balances - last xx trips)

If Battery energy balance is negative during drive, it means Battery is discharged!

Cause could be:

1. Short trips.
2. Battery condition bad.
3. Many power consumers.
4. Generator problem.

LifeCycleData / Record 7. (Energy balances - last xx standing times)

The entire entry in this CycleData, is done at the end of the "Standing time". The time is from last "Engine OFF".

A CAN alive total time during a "Standing time" is an addition, started when the bus system is active and stopped when not active, between Engine OFF and next Engine ON.

LifeCycleData / Record 9. (Monthly battery check)

Automatically, about every month an entry is mde here

2.10 Battery shut-off stages.

Shut-off stages are used when charge condition of the battery is getting lower.

There are 6 shut-off stages available (1 to 6).

The first stage is 1 and the last is 6. Stage 6 is used when the battery is very low.

The order of the shutoff stages are:

1 > 2 > 5 > 3 > 6

Stage 4 is Transport mode and is only used when the car is new manufactured or activated by a diagnostic tester.

2.11 Tips for analyzing history data.

Failure possibilities:

1. Outside influence.

LifeCycleData / Record 5: Lights ON, Ignition ON, Quiescent current > 70 mA ?
Look at Lines 12 / 14 / 8.

2. Influence from inside the car.

LifeCycleData / Record 5: Quiescent current > 70 mA, CAN bus awake ?
If no Ign. ON time, CAN ON time, Lights ON, then there is probably Quiescent current to high.

Internal controller, then measure voltage drop on different fuses, see
TPI 2010999 / TPI 2016076 / TPI 2008818

Are there installed extra consumers, new radio, phone, bluetooth, GPS tracker, etc.

3. Battery defective.

LifeCycleData / Record 5: Lights ON, Ignition ON, Quiescent > 70 mA ?

4. Faulty Battery

Not charged while waiting for delivery:

LifeCycleData / Record 1

Line 2 is for example showing 24 hours

LifeCycleData / Record 6

Look at Line 4 and 5.

LifeCycleData / Record 7

Look at Line 3 and 4.

5. If the Battery capacity is decreasing,

but there is no “No-load current overranging” entry.

Look at Record 2 Line 4.

Then there is maybe current consumption before the needed 2 hours

“No-load current over ranging”, See Record 5 Lines 2 / 3 / 4 / 8

6. Discharged battery:

LifeCycleData / Record 2

Look at Line 2 and 5.

LifeCycleData / Record 3

Look at Line 7 and 10 and 11.

LifeCycleData / Record 5

Look at Line 12 and 14 and 15.

LifeCycleData / Record 7

Look at Line 4 and 6.

7. CAN-Bus activity

(There are differences in time values between the same recordings for CAN activity, that is because the conditions in each Record are different.

Look at Record 3 Line 11.

The CAN activity count in Shut-off stage is done when:

▶ A new shut-off level message is send on CAN-Bus.

▶ The Parking heater Bit change on CAN-Bus

If both the above change at the same time, only one entry is made.

The total time for CAN activity for standing time is the sum of every

“CAN On to CAN Off”, during the time period from latest “Engine Stopped” to the “Shut-off” entry

Look at Record 5 Line 15.

The entry for "Energy-critical vehicle state" is only possible one time, during "Engine Stopped" period.

A new entry is first possible, after the vehicle has driven 20 km.

The CAN activity timing is started when one of the CAN-Buses go active and is ended when all CAN-Buses are NOT active.

Look at Record 7 Line 5.

The total CAN activity in standing time is calculated at the end of the standing time.

The CAN activity time is started from the latest Engine Stop signal.

2.12 How to check if CAN-bus is not sleeping.

Some examples:

Audi A3, A6 (4F / C6), Q7 (4L), TT (8J), A8 (4E):

Hazard warning light ON.

Audi A4 (8K / B8), A8 (4H / D4):

Warning lamp for parking brake in Instrument cluster ON.

Better way:

Audi A4 (8K / B8), A6 (4F / C6), Q7 (4L), A8 (4E), A8 (4H / D4):

Park brake is applied. Speedometer needles position.

Park brake warning lamp in switch.

If there is a high Quiescent current because of CAN bus wake-up, there are no data saved in LifeCycleData 2 !

To be sure that CAN-buses go to sleep, take ignition key out and wait for 2 minutes.

2.13 Maximum quiescent current

This table show maximum quiescent current for different good (new) battery sizes, that can last 40 and 50 days standing time.

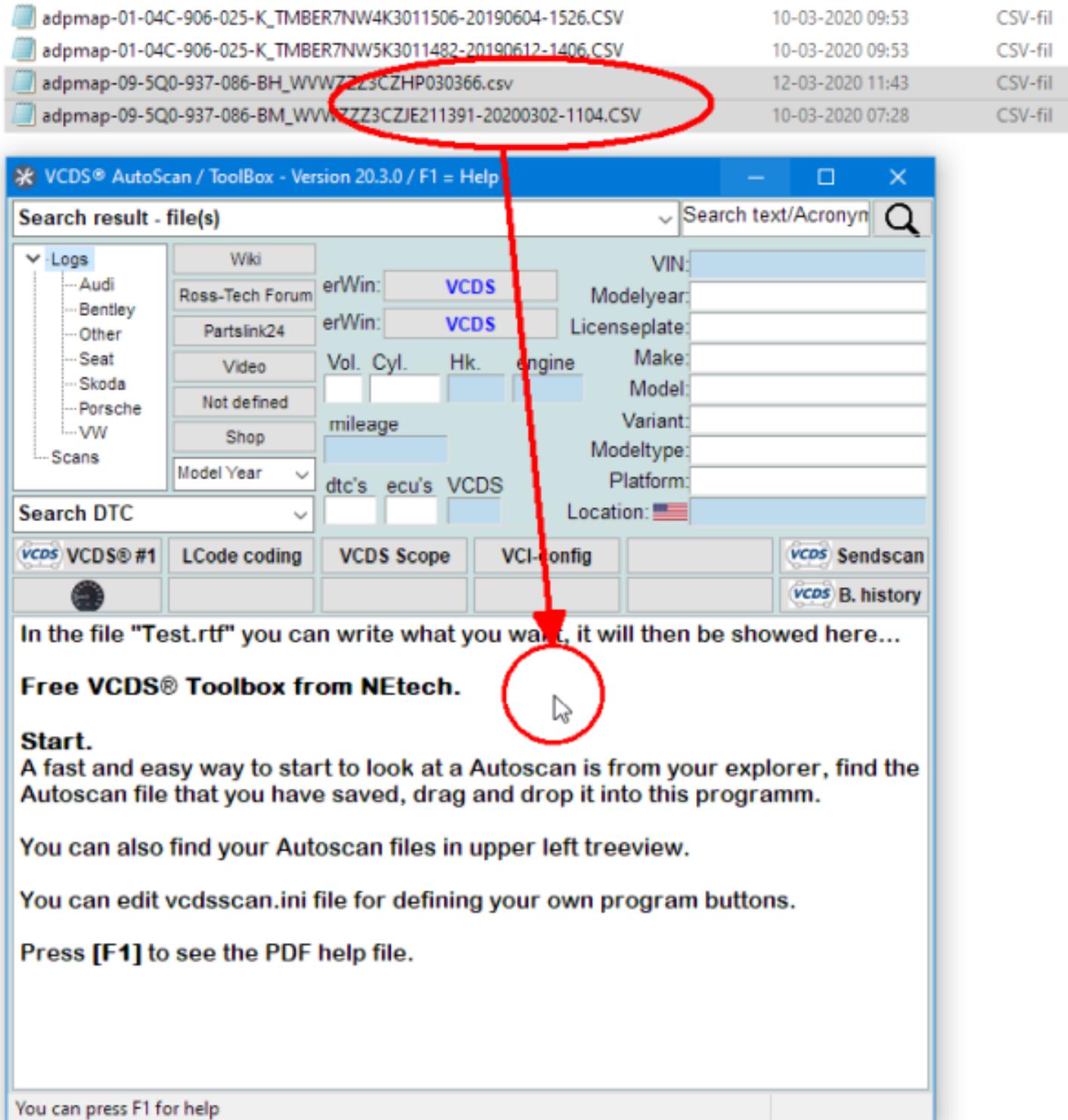
Battery size	40 days	50 days
36 Ah	13.5 mA	10.5 mA
44 Ah	16.5 mA	12.8 mA
60 Ah	22.5 mA	17.5 mA
68 Ah	25.5 mA	19.8 mA
70 Ah	26.3 mA	20.4 mA
72 Ah	27.0 mA	21.0 mA
75 Ah	28.1 mA	21.9 mA
80 Ah	30.0 mA	23.3 mA
85 Ah	31.9 mA	24.8 mA
95 Ah	35.6 mA	27.7 mA
110 Ah	41.3 mA	32.1 mA

2.14 Compare Adaptation Channel files

You can comparing 2 UDS Adaptation Channel files. It can be done from different languages, but must be from same controller.

For comparing you can either choose the two files (In Explorer) and Drag&Drop them into VCDSToolbox.

Or choose the two files (In Explorer), Right click > Copy, then Right click in VCDSToolbox and choose the menu [Insert (Paste) 2 UDS adaptation files].



Figur 14 Drag adaptation files

VCDS® AutoScan / ToolBox - Version 20.3.0 / F1 = Help

Search result - file(s) Search text/Acro

Logs

- Audi
- Bentley
- Other
- Seat
- Skoda
- Porsche
- VW
- Scans

Wiki

Ross-Tech Forum erWin: VCDS VIN: Modelyear:

Partslink24 erWin: VCDS Licenseplate:

Video Vol. Cyl. Hk. engine Make:

Not defined Model:

Shop mileage Variant:

Model Year dtc's ecu's VCDS Modeltype:

Platform:

Location:

Search DTC

VCDS® #1 LCode coding VCDS Scope VCI-config

In the file "Test.rtf" you can write what you want, it will then be showed I

Free VCDS® Toolbox from

Start.

A fast and easy way to start to use the VCDS software in Windows Explorer, program.

You can also find your Autoscan file that you have saved.

You can edit vcdsscan.ini file and use the buttons.

Press **[F1]** to see the PDF help file.

Print scan
Print screen
Copy marked
Select all
Fault Status
Fault Priority
Insert (Paste) 2 UDS adaptation files

Figur 15 Or paste copied adaptation files

Compare UDS adaptation files

adpmap-09-5Q0-937-086-BM_WVVWZZZ3CZJE211391-20200 adpmap-09-5Q0-937-086-BH_WVVWZZZ3CZHP030366.csv

Measurement text 1	Value 1	Value 2	Measurement text 2
IDE00001-ENG99061-Produktions modus	Ikke aktiv	not active	IDE00001-ENG99061-Production mode
IDE00001-ENG115730-Produktions modus	Ikke aktiv	not active	IDE00001-ENG115730-Production mode
IDE00001-ENG112304-Produktions modus	Ikke aktiv	not active	IDE00001-ENG112304-Production mode
IDE00001-ENG98647-Produktions modus	Ikke aktiv	not active	IDE00001-ENG98647-Production mode
IDE00001-ENG115729-Produktions modus	Ikke aktiv	not active	IDE00001-ENG115729-Production mode
IDE00001-ENG115731-Produktions modus	Ikke aktiv	not active	IDE00001-ENG115731-Production mode
IDE00002-Transportmode	Aktiv	active	IDE00002-Transport mode
IDE00820-Aktivering af ALLE udviklingsmodi	Ikke aktiv	not active	IDE00820-Activating and deactivating development modes
IDE01550-Servicestilling	153.296551 °	153.296551 °	IDE01550-Service position
IDE02152-Egenskaber i produktionsmodus	2000 ms	2000 ms	IDE02152-Characteristics in production mode
IDE02269-MAS04382-Retursignaler-Optimering	Forsinkelse	Decelerate	IDE02269-MAS04382-Acknowledgement optimization
IDE02269-ENG116666-Retursignaler-Aktiv	Ikke aktiv	not active	IDE02269-ENG116666-Acknowledgement active
IDE02269-ENG116669-Retursignaler-Aktiv	Ikke aktiv	not active	IDE02269-ENG116669-Acknowledgement active
IDE02269-ENG116670-Retursignaler-Aktiv	Aktiv	active	IDE02269-ENG116670-Acknowledgement active
IDE02269-ENG116667-Retursignaler-Aktiv	Ikke aktiv	not active	IDE02269-ENG116667-Acknowledgement active
IDE02269-ENG122187-Retursignaler-Da	kort	short	IDE02269-ENG122187-Acknowledgement
IDE02269-ENG122188-Retursignaler-Mer	Ikke aktiv	not active	IDE02269-ENG122188-Acknowledgement
IDE02269-ENG122995-Retursignaler-Op	Ikke aktiv	active	IDE02269-ENG122995-Acknowledgement
IDE02269-ENG116668-Retursignaler-Op	Aktiv	active	IDE02269-ENG116668-Acknowledgement
IDE02269-ENG133344-Retursignaler-Qu	Ikke aktiv	not active	IDE02269-ENG133344-Acknowledgement
IDE02269-ENG133345-Retursignaler-Qu	Ikke aktiv	not active	IDE02269-ENG133345-Acknowledgement
IDE02269-ENG142248-Retursignaler-ZV	200 ms	200 ms	IDE02269-ENG142248-Acknowledgement
IDE02269-ENG142247-Retursignaler-ZV	200 ms	200 ms	IDE02269-ENG142247-Acknowledgement

Figur 13 Compared Adaptation Channel files result

2.15 Service history information

Drag and drop file named: "blockmap-17*.csv"

The Controller Blockmap csv file made by VCDS, must include IDE03911 etc.

They are used in many model, like these for example:

MQB

Golf 8 platform

Skoda superb (3V)

Skoda Rapid (NH)

Skoda Fabia (NJ)

VW Polo (6C)

VW Polo (AW)

VW Touran (5T)

VW Tiguan (AD)

VW Arteon (3H)

VW Passat (3G)

VW Tourareg (7P6)

VW Crafter (SY)

Audi A6/A7 (4G)

Audi Q7 (4M)

Audi Q5 (FY)

Just drag & drop one file, as showed on page 20

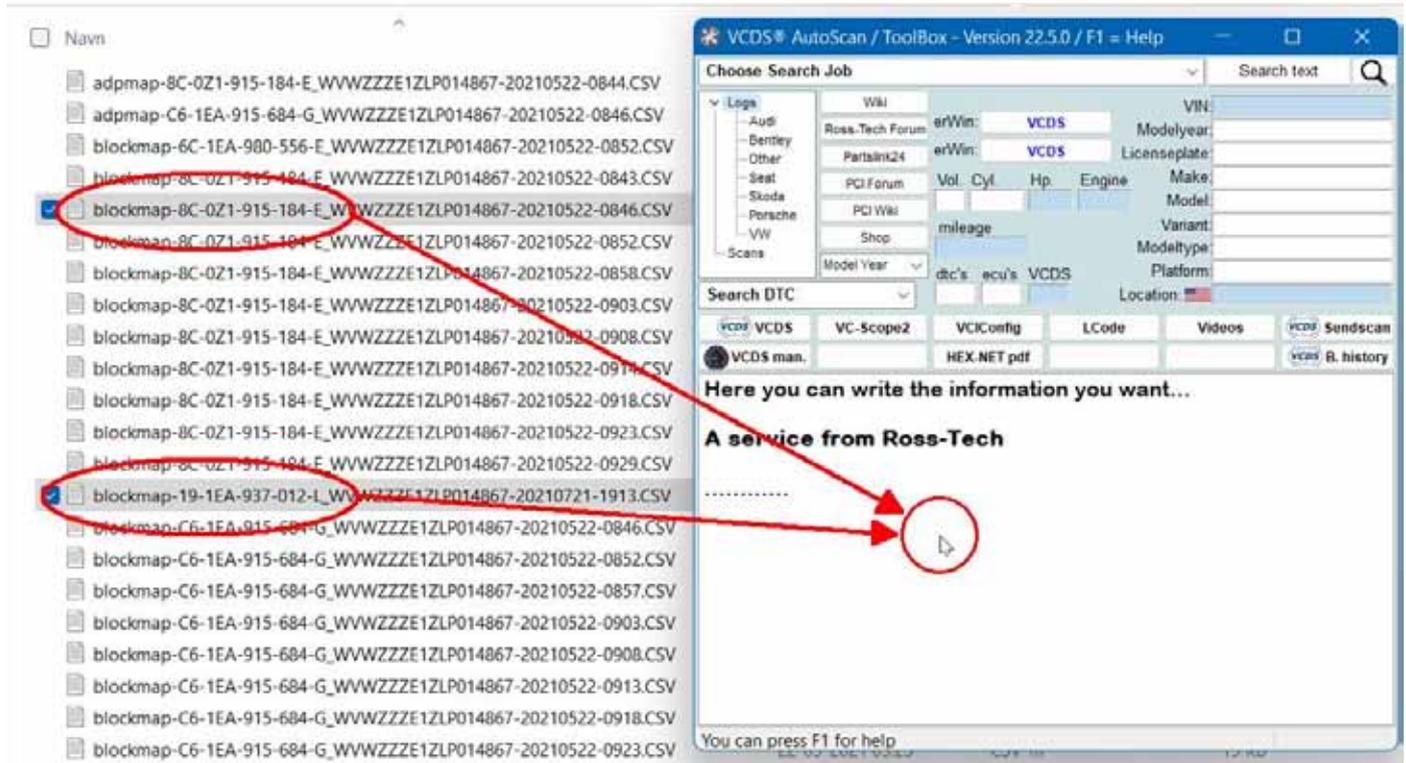
History number	Block number	Value	Unit	Type of service	How is Job performed	Job performed
1	1	29	Days	Oil service by time	Reset by diagnostics	Service warning reset
1	2	7	Km	Oil service by distance	Reset by diagnostics	Service warning reset
1	3	7	Km	Inspection by distance	Reset by diagnostics	Service warning reset
1	4	29	Days	Inspection by time	Reset by diagnostics	Service warning reset
1	5	30007	Km	Inspection by distance	Reset through CAR menu	Service is active
1	6	30007	Km	Oil service by distance	Reset through CAR menu	Service is active
1	7	448	Days	Inspection by time	Reset by diagnostics	Service warning reset
1	8	30478	Km	Inspection by distance	Reset by diagnostics	Service warning reset
1	9	30478	Km	Inspection by distance	Reset by diagnostics	Service warning reset
1	10	448	Days	Inspection by time	Reset by diagnostics	Service warning reset
1	11	30478	Km	Oil service by distance	Reset by diagnostics	Service warning reset
1	12	448	Days	Oil service by time	Reset by diagnostics	Service warning reset
1	13	60478	Km	Oil service by distance	Reset through CAR menu	Service is active
1	14	66978	Km	Inspection by distance	Reset through CAR menu	Service is active
1	15	68203	Km	Oil service by distance	Reset through CAR menu	Service warning reset
1	16	923	Days	Oil service by time	Reset through CAR menu	Service warning reset
2	1	923	Days	Oil service by time	Reset by diagnostics	Service warning reset
2	2	68203	Km	Oil service by distance	Reset by diagnostics	Service warning reset
2	3	923	Days	Oil service by time	Reset by diagnostics	Service warning reset
2	4	68203	Km	Oil service by distance	Reset by diagnostics	Service warning reset
2	5	923	Days	Inspection by time	Reset by diagnostics	Service warning reset
2	6	68203	Km	Inspection by distance	Reset by diagnostics	Service warning reset

Figur 16 Service history result

2.16 Show HV battery data

Some special battery data is shown from [8C-HV Battery] and [19-CNA Gateway] blockmap csv files. That is for new electric vehicles, like ID.3, ID.4, ID.5, Q4, e-tron.

Just mark the 2 files from [8C] and [19], then drag and drop to VCDSToolBox:



Figur 17 Drag and drop 2 HV Battery csv files

Type	Serialno	Partno		
0	120 kWh	58	kWh - HV bat. size netto	
0	120 kWh	54.60	kWh - HV Bat. max content.	
0	100 %	50.00	HV battery level SOC	
0	100 %	60	12V battery level SOC	
Explanation	Value	Unit	Text	Value
HV battery	412.750	V	Min. discharge voltage	270
Sum of all battery cells	413.016	V	Max. charging voltage	459
Cell no. 44 Minimum cell voltage	3.811	V		
Cell no. 1 Maximum cell voltage	3.826	V	Max. cell diff. (30mV)	15
Cell no. 52 Minimum cell charge level value	49.490	%		
Cell no. 79 Maximum cell charge level value	51.830	%	Max. charge diff (5%?)	2.30
Intake air temperature of HV battery	16.000	°C		
Exhaust air temperature of HV battery	16.000	°C		
Battery temperature	17.500	°C		
Sensor # 2 Lowest measured temperature value	16.375	°C		
Sensor # 9 Highest measured temperature value	18.500	°C	Max. temp. diff (5°C?)	2.125
Pump speed for HV battery coolant pump	0	%		
PTC heater for HV battery	0.000	A		
HV battery current	102.900	A		
HV Bat. history data charge	2306	Ah	977 kWh	
HV Bat. history data discharge	-2305	Ah	-913 kWh	
HV battery specified mode	Extern charging DCvoltage			

Figur 18 HV Battery data result

Chapter 3 Settings

3.1 Configuration of button actions

You can change settings in the file, vcdsscan.ini

Screen-x=300

Screen-y=432

I saved every time you quit the program.

DTC-Wiki=Ross-Tech

Here wiki url address, for searching DTC explanation can be defined.

Link1=http://wiki.ross-tech.com Wiki

Here you can change and/or add link to a program you want to be able to start from VCDSToolbox. The text after the space, is what is used in the button.

Link1 to Link5 are the ones showed top, left.

Link6 is the rtf file that is loaded at start-up.

Link7 to Link11 are on the first button row, starting from left side.

Link12 to Link16 are on the second button row, starting from left side.

The most right button on each row cannot be changed, they are hard coded (fixed).

Email-hist1=

Are used in the **[Sendscan]** window, if you often send Autoscan, so you can just choose your e-mail.

Chapter 4 Miscellaneous

4.1 FAQ

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4.3 End

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11.oct.2022 VCDS Toolbox version 22.9.0