



Achieve the impossible

Abrites Diagnostics AVDI Common User Manual

Version: 3.3

www.ABRITES.com

Table of content:

1.INTRODUCTION AND INSTALLATION

2.QUICK START

3. USING AVDI WITH A VIRTUAL MACHINE (VM)

4.TROUBLESHOOTING

5.ADDITIONAL CABLES AND PRODUCTS

6.LICENSE VIEWER

1. INTRODUCTION AND INSTALLATION

Congratulations on choosing our product!

AVDI will allow you to use your Windows based PC as a powerful diagnostic tool for cars, trucks, bikes, marine equipment and recreational products.

AVDI is an interface produced by Abrites Ltd. intended for interface between a PC and electronic control units.

AVDI should be used with ABRITES software produced by Abrites Ltd.

ABRITES is a trade mark of Abrites Ltd.

Scope of the manual

This document describes the software and hardware installation of your AVDI diagnostics interface.

The document is applicable for the interfaces numbered 17xxxx (or 16xxxx) where xxxx is a hexadecimal number between 0000 and FFFF.

Your AVDI package

The basic package of AVDI interface contains:

• Abrites Vehicle Diagnostics Interface





• AVDI OBDII cable (SAE J1962) - used to connect the AVDI to the vehicle

• USB cable with extra power - used to connect the AVDI to the PC



System requirements

Minimum system requirements - Windows 7 SP1 + 2GB RAM (recommended 4GB).

Getting Started

Software for your AVDI interface can be delivered by email. Please make sure that you follow the steps described below.

Software is represented by windows executable files named

1. "SetupInterface_17xxxx.exe" (or 16xxxx.exe)

2. "SetupInterface_Common.exe" and three more downloadable parts of the common file:

- "SetupInterface_Common-1.bin "
- "SetupInterface_Common-2.bin "





SetupInterface_1 7xxxx.exe

SetupInterface_C ommon.exe

3. "SetupInterface_17xxxx_PASSTHRU.exe" (or 16xxxx)

where 17xxxx (or 16xxxx) is your interface identification number.



Software installation steps

Please follow the bellow given instructions when installing the software for your AVDI interface.

Important! All executable files (.exe) mentioned above must be executed consequently(1,2,3) for the installation to be complete. Otherwise the software might not function as expected!

 Step 1. Download all the parts of the common setup files in one folder.
 SetupInterface_Common.exe

 Start the executable file
 SetupInterface_Common.exe

 "SetupInterface_Common.exe" and follow the onscreen instructions.
 SetupInterface_Common-2.bin

IMPORTANT! Make sure that they are all downloaded in the SAME folder and their names are EXACTLY as they are named on the image above. If you have "SetupInterface_Common-1 (1) or (2)", as Windows would name them if you have two files with the same name, the installation WILL NOT be completed.



| etup - ABRITES Common Softwar | | | |
|--------------------------------------|------------------------------|---------------------|--------|
| elect Destination Location | | | |
| Where should ABRITES Common S | Software be installed? | | Ċ |
| Setup will install ABRITES C | Common Software into the | e following folde | r. |
| To continue, click Next. If you wou | ld like to select a differen | t folder, click Bro | owse. |
| C:\Program Files (x86)\ABRITES\C | Common | | Browse |
| | | | |
| | | | |
| At least 4,510.3 MB of free disk spa | ace is required. | | |

Press the "Next" button to proceed with the installation.

Press 'Next'.



Press 'Next'.

Press 'Install' and wait for the installation to complete.



Press 'Finish'.

Step 2.

Please, start the executable file 'SetupInterface_17xxxx.exe' (or 16xxxx.exe) to initiate the installation procedure and follow the onscreen instructions.



SetupInterface_1 7xxxx.exe

Depending on your operational system and settings you may be asked to confirm the start of the installation procedure or to type in your administrative credentials.

| | | to allow the following program from an blisher to make changes to this computer? |
|-----|---|---|
| | Program name: Publisher: File origin: | SetupInterface_VV‱.exe Unknown Hard drive on this computer |
|) s | how details | Yes No |
| | | Change when these notifications appear |



Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

Please read the following important information before continuing.

Betup - ABRITES Diagnostic Software

License Agreement

Press the "Next" button to proceed with the installation.

Read the license agreement carefully and select "I accept the agreement" if you accept it. Then press the "Next" button.

If you do not agree press the "Cancel" button to interrupt the installation procedure.



Read the General Data Protection Regulation (GDPR) and press the "Next" button.

If you do not agree press the "Cancel" button to interrupt the installation procedure.



Confirm the GDPR by pressing the "OK" button.

| formation | | Select Destination Location |
|---|-----|--|
| Please read the following important information before continuing. | C A | Where should ABRITES Diagnostic Software be installed? |
| When you are ready to continue with Setup, click Next. | | Setup will install ABRITES Diagnostic Software into the following folder. |
| This will install following ABRITES products: | ^ | To continue, click Next. If you would like to select a different folder, click Browse. |
| ABRITES Programmer for AVDI 2.7 ABRITES Quick Start 1.8 ABRITES Diagnostics for Bikes, Snowmobiles and Water scooters 2.0 ABRITES Diagnostics for BMW 31.5 ABRITES Diagnostics for BMW 10.5 ABRITES Diagnostics for Chrysler 3.4 ABRITES Diagnostics for DAF 1.0 ABRITES Diagnostics for Daihatsu 1.4 ABRITES D-POU API 2.3 FIAT Examiner Emulator 1.1 ABRITES Diagnostics for Fiat 7.3 ABRITES Diagnostics for Ford/Mazda 7.4 | | C:\Program Files (x86)\ABRITES software for ID 17xxxx Browse |
| ABRITES Diagnostics for Hyundai/KIA 4.0 | ~ | At least 947.8 MB of free disk space is required. |

Press the "Next" button to proceed with the installation.

Press the "Next" button to proceed with the installation.

| November 2019 | Abrites Diagnos | stics AVDI Common User Manual | |
|---|--------------------------------|--|----------------------|
| Setup - ABRITES Diagnostic Software | - 🗆 X | Betup - ABRITES Diagnostic Software | - 0 |
| Select Start Menu Folder Where should Setup place the program's shortcuts? | | Select Additional Tasks Which additional tasks should be performed? | |
| Setup will create the program's shortcuts in the | e following Start Menu folder. | Select the additional tasks you would like Setup to perform whil Diagnostic Software, then click Next. | e installing ABRITES |
| To continue, click Next. If you would like to select a d | ifferent folder, click Browse. | Additional icons: | ^ |
| | | | |
| ABRITES software for ID 17xxxx | Browse | Create a desktop icon | |
| ABRITES software for ID 17xxxxx | Browse | Create a desktop icon Drivers: | |
| ABRITES software for ID 17xxxx | Browse | | |
| ABRITES software for ID 17xxxx | Browse | Drivers: | |
| ABRITES software for ID 17xxxx | B _L owse | Drivers: | |
| ABRITES software for ID 17xxxx | B _L owse | Drivers: Install USB Interface Drivers Version 2.12.24 Install Virtual Serial Port Driver | |
| ABRITES software for ID 17xxxx | B _L owse | Drivers: Install USB Interface Drivers Version 2.12.24 Install Virtual Serial Port Driver PassThru Drivers: | |

Press the "Next" button to proceed with the installation.

If you do not want desktop icons – uncheck the check box about the creation of these icons. Press the "Next" button to proceed.

| a second | Ready to Install Setup is now ready to begin installing ABRITES Diagnostic Software on your computer. |
|---|---|
| In case you plan on using the Abrites passthru software with the original BUDS software and you have a BUDS serial number you can write it down here. The serial number is the same as the MPI-2 number. MPI-2 Serial Number: 100000456 | Click Install to continue with the installation, or click Back if you want to review or change any settings. Destination location: C:\Program Files (x86)\ABRITES software for ID 17651 Start Menu folder: ABRITES software for ID 173651 Additional tasks: Additional icons: Create a desktop icon Drivers: Install USB Interface Drivers Version 2.12.24 Install USB Interface Version 2.12.24 Start Nu Drivers: |

Press the "Next" button to proceed.

Press the "Install" button.



If you do not have your AVDI connected to the PC during the installation you will see this message. Connect your AVDI and press "Yes".



When the installation is completed the wizard will create an "Abrites Quick Start for ID17xxxx (or 16xxxx) desktop icon.

New generation Abrites Online Diagnostics for BMW/Mini, Renault/Dacia, Honda, Mercedes-Benz, Mitsubishi, Nissan, RollsRoyce, Subaru, Ford/Mazda, PSA

During the half of 2014 Abrites ltd. released a new generation of online diagnostic software. The Software is currently distributed together with the older platform. The new generation software (versions 31.5 and later) requires Internet access due to the large calculations performed by the Abrites server instead of the user's computer.





When the software is launched it will display the messages for server connection and AVDI connection.

| | | |
|--|--------|---------------|
| ABRITES Diagnostics 31.6 www.abrites.com | CP | × |
| K Home Config Initialize | af | II (0) |

Please restart your diagnostics software with Administrator privileges in order to update.

When new updates are available the Abrites software has to be run as **administrator**. If more than one component need to be downloaded the software has to be run it one more time as **administrator**. Right click on the Abrites Quick Start icon on your desktop and select "Run as administrator".



As soon as the interface is recognized and all updates are installed the list of available models will be displayed.

Please, be informed that the installation includes a copy of the user's manual to which you could refer at any time. It is stored in the following location:

Start menu -> Program Files -> ABRITES -> Common -> AVDI Common User's Manual

You could use the interface for any given diagnostics by going to the following location: Start -> Program files -> ABRITES software for ID17xxxx(or ID16xxxx) -> choose one of the folders named by brand or open the "ABRITES Quick Start.exe" file.

ABPROG

You could access the ABPROG Programmer for AVDI by going to the following location: **Start -> Programs -> ABRITES software for IDxxxxxx -> ABPROG -> ABPROG.exe.** ZN030-ABPROG + ZN031-M35XXX/SPI/I2C Adapter + ZN046(key renewal adapter for Hitag 2 keys) + ZN034(ABPROG flat cable)

together with Abrites EEPROM Programmer software allow you to erase and write SPI EEPROM memory with and without incremental registers.

*A detailed user manual is included in the following directory: Start menu -> Program Files -> ABRITES -> Common -> ABPROG

PROTAG

You could access the PROTAG programmer software by going to the following location: Start -> Programs -> ABRITES software for IDxxxxxx -> TagKeyTool

-> ABRITES Tag Key Tool.exe

*A detailed user manual is included in the following directory: Start menu -> Program Files -> ABRITES -> Common -> Tag -> Tag Key Tool Common User's Manual

2. Quick Start

The Abrites Quick Start for IDxxxxx where "xxxxx" is the ID of your AVDI is a simplified user interface which allows you to start working with the AVDI in a much quicker manner. After the installation is complete you should have a **Quick start icon** on your desktop as well as a start menu shortcut.

Interface preparation and connection to the PC

Connect the USB cable from the AVDI package to the interface.





ABRITES

Quick Sta...







Connect one of your diagnostic cables (OBDII, Deutsch etc.) to the interface.

Connect the main USB connector(CB104) to your PC.

If you are connecting the interface to your USB port for the first time wait until Windows notifies you that the drivers are installed successfully. Please, take into account that if you reconnect the interface to another USB port of your PC for the first time you might need to wait again until Windows confirms your successful installation.

You are ready to run some of the diagnostics.







Abrites Diagnostics AVDI Common User Manual

When you start a diagnostics you should see this:

> 23 Please Wait... Connecting to the interface, please wait ... Connection OK! Cancel

PROTAG programmer:

This means that the connection to the

interface is OK:







If you HAVE connected the PROTAG programmer you should see this message that the PROTAG programmer is successfully recognized and you can start working:

| Please Wait | × |
|---|-----------|
| Checking for programmer, ple Programmer found! | ease wait |
| | |
| | × Cancel |

3. USING AVDI WITH A VIRTUAL MACHINE (VM)

If you like to use your AVDI interface (software) with a virtual machine here are some preliminaries that should be made.

Install AVDI software on the VM

After you have loaded and played the VM on which you would like to use your AVDI interface, please install the ABRITES Software for the AVDI interface which you want to use on the VM. This is done exactly as the installation on your host PC (see 3.1 Software installation steps).

Be sure that the checkbox about the installation of the interface's USB drivers is set, especially if you are installing the Abrites Diagnostic Software for the first time on this machine.

You should see the following window:

Wait for the drivers to be installed.

Connect AVDI to the VM

After the ABRITES Software is installed on the VM and you have connected the AVDI interface to an USB port of your PC you should redirect this port to the VM, otherwise you cannot use the AVDI interface on the VM!

This can be done in the following way (example with VMware):

From the main menu of the VMware player, select "Virtual Machine" \rightarrow "Removable devices" \rightarrow "future devices avdi interface 17xxxx(or 16xxxx)" \rightarrow "Connect (Disconnect from host)".



Here 17xxxx(or 16xxxx) is your interface identification number.

You will be shown a message informing you that the USB device will be unplugged from the host machine and connected to the virtual machine.

If you like to disconnect the AVDI interface from the VM (so you can use it on the host PC) you can either close the VM Player or do it through the VMWare menu "Virtual Machine" \rightarrow "Removable devices" \rightarrow "future devices avdi interface Vvxxx" \rightarrow "Disconnect (Connect to host)".

Shut down the VM

After you have finished working with the Virtual Machine you should perform "**Shut down**" of the Operating System. This applies also when using the J2534 Passthru driver on Virtual Machines.

Set latency timer

Another prerequisite before you start using the AVDI interface on the VM is to set the latency timer of the COM port where the AVDI interface is recognized to **1ms**.

This can be done in the following way:



Open Windows Explorer then right click on "This **PC**" ("My computer") and select "**Properties**".

From the **"System properties"** window select **"Device manager"**.

| Elle Action View Help Image: State of the state of | | ~ |
|---|------|---|
| ✓ | | ^ |
| | | ^ |
| > 🖣 Audio inputs and outputs | | |
| | | |
| > 🞯 Batteries | | |
| > 🕘 Biometric devices | | |
| > 🚯 Bluetooth | | |
| > 🛄 Computer | | |
| Disk drives | | |
| > 🖼 Display adapters | | |
| > 📓 Firmware | | |
| > 🙀 Human Interface Devices | | |
| > 📷 IDE ATA/ATAPI controllers | | |
| > 🕞 Imaging devices | | |
| > 🔤 Keyboards | | |
| > 🛄 Memory technology devices | | |
| Mice and other pointing devices | | |
| > 🔲 Monitors | | |
| > 💭 Network adapters | | |
| - Ports (COM & LPT) | | |
| USB Serial Port (COM3) | | |
| > 🛱 Print queues | | |
| > Processors | | |
| > P Security devices | | |
| > Software devices | | |
| Sound, video and game controllers | | |
| > Storage controllers | | |
| Surtem davicer | | * |

| | al Port (COM3) | | | | |
|---------|----------------|----------------|-------------|--------|-----------------|
| General | Port Settings | Driver | Details | Events | |
| | | <u>B</u> its p | er second: | 9600 | · · |
| | | | Data bits: | 8 | ~ |
| | | | Parity: | None | ~ |
| | | | Stop bits: | 1 | ~ |
| | | Ē | ow control: | None | × |
| | | | Ad | vanced | Restore Default |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

In the opened window select **"Ports (COM & LPT)"**. Your AVDI will appear in the list as "USB Serial Port (COM xx)" where "xx" can be different number. Double click on it.

From the screen select **"Port settings"** and then press **"Advanced"**.

| COM Port Number: COM3 | | _ ~ | OK |
|---|------------------------|--|----------|
| USB Transfer Sizes | | | Cancel |
| Select lower settings to correct perfor | rmance problems at lov | v baud rates. | |
| Select higher settings for faster perfo | rmance. | | Defaults |
| | | | |
| Receive (Bytes): | 4096 ~ | | |
| Transmit (Bytes): | 4096 ~ | | |
| | | | |
| BM Options | | Miscellaneous Options | |
| Select lower settings to correct respo | nse problems. | Serial Enumerator | E |
| | | Serial Printer | [|
| Latency Timer (msec): | 1 ~ | Cancel If Power Off | [|
| | | Event On Surprise Removal | [|
| Timeouts | | Set RTS On Close | [|
| | | Disable Modem Ctrl At Startup | [|
| Minimum Read Timeout (msec): | 0 ~ | Enable Selective Suspend | [|
| | | Selective Suspend Idle Timeout (secs): | 5 |

Make sure "Latency timer" is set to 1.

Please, note that if you connect your AVDI to a different USB port you should do these steps again.

WORKING WITH J1850 ADAPTER

Abrites J1850 adapter is intended to support SAEJ1850 PW 10.4 kbps and PWM 41.6 kbps protocol standarts.

Adapter must be connected between AVDI and OBD2 cable using the DB25 sockets.

No additional settings are required.



The J1850 adapter



4.TROUBLESHOOTING

LATENCY TIMER - PROBLEM



Sometimes depending on the user rights in Windows you may see the following message:



You have two options for this - first is to run the application as an administrator

Or to change the port settings:

1. Connect your AVDI to an USB port of your PC

| File Home Share View | | | ~ 🕐 | 🔶 🚽 🕆 🛧 🍠 > Control Par | nel > All Control Panel Items > S | iystem 🗸 🗸 | Search Control | Panel | ۶ |
|--|------|----------------|-----|---|--|---|--|------------|---|
| * * * • • • • • • • • • • • • • • • • • | ∨ ບັ | Search Desktop | P | Control Panel Home Control Panel Home Control Panel Home Remote settings System protection Advanced system settings | View basic information Windows edition © 2018 Microsoft Corpora rights reserved. System Processor: Installed memory (RAM): System type: Pen and Touch: | about your computer | Vindo J © 2.50GHz 2.60 based processor | | 0 |
| Delete Renarge Properties | | | | See also Security and Maintenance | Computer name, domain, and Computer name: Full computer name: Computer description: Workgroup: Windows activation Windows is activated Rea | DESKTOP-OKI4L88 DESKTOP-OKI4L88 WORKGROUP d the Microsoft Software License | Terms | Change set | |

Open Windows Explorer then right click on **"This PC"** ("My computer") and select **"Properties"**.

From the **"System properties"** window select **"Device manager"**.





In the opened window select **"Ports (COM & LPT)"**. Your AVDI will appear in the list as "USB Serial Port (COM xx)" where "xx" can be different number. Double click on it. From the screen select **"Port settings"** and then press **"Advanced"**.



| lvanced Settings for COM3 | | | ? | × |
|-----------------------------------|-----------------------------|--|----------|--------------|
| COM Port Number: | OM3 |] • | OK | |
| USB Transfer Sizes | | | Cancel | |
| Select lower settings to correct | performance problems at low | baud rates. | D.C. 1 | |
| Select higher settings for faster | performance. | | Defaults | |
| Receive (Bytes): | 4096 ~ | | | |
| Transmit (Bytes): | 4096 ~ | | | |
| BM Options | | Miscellaneous Options | | |
| Select lower settings to correct | esponse problems. | Serial Enumerator | | \checkmark |
| | | Serial Printer | | |
| Latency Timer (msec): | 1 ~ | Cancel If Power Off | | |
| | | Event On Surprise Removal | | |
| Timeouts | | Set RTS On Close | | |
| Minimum Dood Timoout (moos) | | Disable Modem Ctrl At Startup | | |
| Minimum Read Timeout (msec) | 0 ~ | Enable Selective Suspend | | |
| Minimum Write Timeout (msec) | • • • | Selective Suspend Idle Timeout (secs): | 5 | ~ |

Make sure "Latency timer" is set to 1.

Please, note that if you connect your AVDI to a different USB port you should do these steps again.

Interface not connected



If you see this message you need to check whether the interface is connected to the computer, if it is connected properly and you see this message again contact us at the following e-mail address : support@abrites.com

Internet synchronization (hardware update).

The latest AVDI Diagnostics update introduced a **mandatory update** of the hardware over Internet. This update is regular and should be performed at least once a month.

If the Internet update is not performed, the hardware will have limited functionality and will be not able to connect to vehicles until it is activated.

Please note that performing the Internet update is an essential initial step. For many of the functionalities of your AVDI you will not require to have an Internet connection to your computer

but it is recommended to have your computer constantly connected to the Internet, especially when you are using a **function** which requires Internet connection or when you are using one of the **online software**.

The procedure for performing the AVDI Internet update is as follows:

1. Download and install the latest AVDI Diagnostics update and start the Abrites diagnostics.

2. This Internet update is performed automatically once the AVDI Diagnostics software is started. It is indicated by the message **"Performing Internet activation..."**.

3. If the Internet activation is successful, the next time you start the diagnostic software, the message **"Performing Internet activation..."** should be not shown.

IMPORTANT: If the message "Performing Internet activation..." is not displayed the time you start the application, your hardware is ready for use. The Internet update will expire in one month when you will need to reconnect your computer to the Internet and make sure your interface performs the update when you start your Abrites diagnostic software.

4. If the message "Performing Internet activation..." continues to be shown the Internet update was not successful and the possible reasons for this issue might be:

- **No Internet connection** to the computer you are installing your software on. In that case please allow the connection of this computer to the Internet.

- **The date on your computer** is Incorrect. In that case please set the time and date on your computer to the current time and date at your location.

NOTE: Due to the time zone after running the latest SW update for the first time, the Internet update might not be successful in the first 1-2hours.

Effects if the Internet update is not performed:

- The AVDI hardware is recognized OK, but no connection to the vehicle is possible.
- Some diagnostic software might crash if you try to connect to the car.

- The **update** MUST be performed periodically (**every 30days**) in order for your AVDI to always work properly and not experience any of the symptoms above.

November 2019

Make sure to connect your AVDI and allow it to perform its internet update every 30 days.

In case the procedure does not go as planned and you encounter an issue different to the ones above please contact **support@abrites.com** with a detailed description of the steps you took and their effect.

- Upon starting the Abrites diagnostics software in the top right hand side of the screen you will see how many days (or hours) you have until the next synchronization. In case you see the following message you will need to perform the online update of your hardware.

| A | A ABRITES Diagnostics for VW/Audi/Seat/Skoda 23.0 Hours until HW synchronization: 0 | | | | | | | |
|----|---|------------|---------------------|-----|-----------|--|----------|--|
| # | Unit name | VAG Number | Description | DTC | Coding | | | |
| 00 | 0 - | | s means it is time | | late your | | | |
| 01 | 1 Engine Control Unit-Master | AV | DI via the internet | | | | Previous | |

- Then perform the following steps (After making sure that you have a stable internet connection):

1. Start your Abrites diagnostic software(for example you can use the Abrites diagnostics for Audi)



2. When you start the software you will see the following message:

| ase Wait | |
|--|--|
| Performing HW synchroni: HW Synchronization OK, [| |
| | |
| | |
| | |

This means that your AVDI communicates with the Abrites **secure server** and the online synchronization is being performed.

3. Once the **synchronization is over** you will see the following message when opening the Abrites diagnostic software:

| A A | BRITES Diagnostics for VW/Audi/Seat | :/Skoda 23.0 | Days until HW synchronization | on: 29 | - | |
|-----|-------------------------------------|--------------|-------------------------------|--------|--------|----------|
| # | Unit name | VAG Number | Description | DTC | Coding | |
| 00 | 4 | Your AVD | I is now ready for use | • | | |
| | | | | | | Previous |

This means that the synchronization has gone according to plan and the AVDI is ready to use.

Graphic problem using the online software

| | BMW Remote | | |
|----------------------|----------------------------|-------------------------------------|----------------------------|
| SerialNo Evelopie | B9 70 E2 96 97 13 | Remote Number Bemate Ervatabileh | 88 BB 80 B5 |
| ENERGE | 07 2F E7 1F C8 0F E8 A6 | | 67 98 7B CA 72 11 3D B2 |
| Status | 00 4B 00 A6 00 4B 00 | Remote Status | 00 00 02 BZ |

This graphic issue could happen when you are using one of the Abrites online software such as BMW2. Here is the solution:

| Filters 🗸 | System Properties × |
|--|---|
| Best match | Computer Name Hardware Advanced System Protection Remote |
| Edit the system environment variables Control panel | You must be logged on as an Administrator to make most of these changes. Performance |
| Settings Edit environment variables for your account | Visual effects, processor scheduling, memory usage, and virtual memory Settings User Profiles |
| | Desktop settings related to your sign-in Settings |
| | Startup and Recovery System startup, system failure, and debugging information Settings |
| | Enviro <u>n</u> ment Variables |
| ,⊘ environment | OK Cancel Apply |
| 우 배 💄 🧐 🍯 📕 | |

Type "environment " in the Windows search menu.

Go to the "Advanced" tab and select "Environment Variables" Press "New" under "User variables for 'your user name' "

| Variable | Value | Т |
|--|---|---|
| OneDrive | C:\Users\abuser\OneDrive | |
| Path | C:\Users\abuser\AppData\Local\Microsoft\WindowsApps; | |
| TEMP | C:\Users\abuser\AppData\Local\Temp | |
| TMP | C:\Users\abuser\AppData\Local\Temp | |
| | | |
| vstem variables | New Edit Delete | 2 |
| | New Edit Delete | |
| Variable | | |
| Variable asl.log | Value | |
| Variable asl.log ComSpec | Value Destination=file | |
| Variable asl.log ComSpec configsetroot | Value Destination=file C\WINDOWS\system32\cmd.exe | |
| Variable asl.log ComSpec configsetroot DriverData | Value Destination=file C:\WINDOWS\system32\cmd.exe C\WINDOWS\ConfigSetRoot | |
| Variable asl.log ComSpec configsetroot DriverData NUMBER_OF_PROCESSORS | Value Destination=file C:WINDOWS\system32\cmd.exe C:\WINDOWS\ConfigSetRoot C\Windows\System32\Drivers\DriverData | |
| ystem variables Variable asl.log ComSpec configsetroot DriverData NUMBER_OF_PROCESSORS OS Path | Value Destination=file C:\WINDOWS\system32\cmd.exe C:\WINDOWS\ConfigSetRoot C:\Windows\System32\Drivers\DriverData 4 | |
| Variable asl.log ComSpec configsetroot DriverData NUMBER_OF_PROCESSORS OS | Value Destination=file C:\WINDOWS\system32\cmd.exe C:\WINDOWS\ConfigSetRoot C:\WIndows\System32\Drivers\DriverData 4 Windows_NT | |

Create a new variable named **"QT_OPENGL"** with value **"desktop"** (change it with "angle" or "software" if "desktop" does not solve the graphic issue) and press **"OK"**. Restart your PC.

| | | > |
|--------------------|---|--------|
| T_OPENGL | | |
| esktop | | |
| Browse <u>File</u> | ОК | Cancel |
| | T_OPENGL esktop Browse <u>F</u> ile | esktop |



Abrites online software not opening



It is not possible to open any of the Abrites online software after update. Here are the reasons:

1. Service Pack 1 or later not installed on the PC, make sure the latest version of SP1 is installed on your OC

2. Your PC is not updated.

The solution for this problem would be to **install SP1** and **update** your PC to the latest available version from the **"Windows update"** menu.

IMPORTANT!

Minimum system requirements: Windows 7 SP1 + 2GB RAM (recommended 4GB).

*You could try to apply the solution for the graphic issue also. Please refer to "Graphic problem using the online software".

Internal setup error (174)

| Setup - | - ABRITES Diagnostic Software | |
|---------|---|--------|
| | ring to Install up is preparing to install ABRITES Diagnostic Software on your computer. | |
| 8 | Internal setup error (174) | |
| | Setup cannot continue. Please dick Cancel to exit. | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | <back next=""></back> | Cancel |

This error means that during the software build process your links haven't been built correctly.

The solution would be to generate **new software links**. You can request them by contacting us at the following e-mail address : **support@abrites.com**

Error code: 0x17022



The error means that there are **two versions** of the same software installed on your PC. Uninstall the Abrites software and reinstall it using the latest links only.



Connection Error: Interface not connected!



This error means that your Interface is not recognized. You will need to perform some troubleshooting steps before sending the Interface for repair:

1. Make sure the software is properly installed and LED light of your Interface lights up.

2. Remove all Abrites software and reinstall it from the latest links.

3. Install the latest FTDI drivers: http://www.ftdichip.com/Drivers/VCP.htm

Next to "Windows*" you will find a setup executable which should be downloaded and then installed on your PC.

4. Disable all antivirus programs.

5. Try with another USB cable provided by Abrites if available(your PROTAG uses the same USB cable as your AVDI Interface).

6. Try on a different PC.

If that does not resolve the issue your Interface has to be repaired. Please contact us at the following e-mail address : **support@abrites.com**

AVDI installation Windows defender Smart screen problem



If ever during installation you come across any issues with Windows defender and Smart screen we advise you to start the Windows Defender:



Go to the Smart screen options(type "app & browser control" in the search menu) and disable the blocking:



After reinstalling make sure to turn it back on in case real harm occurs.

Read more here:

https://www.microsoft.com/en-us/windows/comprehensive-security

Manual version: 3.3

Windows Defender

Abrites Diagnostics AVDI Common User Manual

How to disable Windows Defender in Windows 7:

Type "Windows defender" in the search menu

3 Scan for spyware and other potentially unwanted software

_ O _X

Select "Administrator and uncheck "Use this program" followed by "Save"

×

0

Shut down 🕨

.... 😚 Home 🎤 Scan I+ 🙆 History 🔇 Tools 🕐 I+ Options Automatic scanning Use this program Default actions When the setting is on, this program will alert all users if spyware or other potentially unwanted software attempts to run or install itself on this computer. Real-time protection Excluded files and fe Excluded file types Display items from all users of this computer Advanced When the setting is on, this program will allow you to see the History, Allowed items, and Quarantined items from all users. Items are hidden by default to protect user privacy. < III > Save Cancel



case real harm occurs

After reinstalling make sure to turn it back on in case real harm occurs. Please type once again "Windows defender" in the search menu and click "click here to turn it on"



Select "Tools" followed by "Options"

Control Panel (2)

See more results

windows defender

Windows Defender

5. ADDITIONAL CABLES AND PRODUCTS

CB100 - AVDI OBDII cable (SAE J1962)





CB002 – BMW 20 PIN CIRCLE CABLE





CB003– Mercedes 38 Pin cable





CB004– Mercedes Sprinter 14 Pin cable

- OBDII (F) 14 pin cable
 - 4+5 [] 1 16 [] 3 7 [] 14 15 [] 4



CB005– Cable for connecting AVDI and ESL(ELV)

DB25(M) [] ESL

- 5 🛛 GND
- 8 🛛 K-line
- 17 🛛 +12V



CB006– Cable for connecting AVDI and dashboard W203, W209, W211, W219

DB25(F) Dash conector

- 5 🛛 GND (Dash pin 1)
- 7 🛛 Can Hi (Dash pin 18)
- 15 🛛 Can Lo (Dash pin 17)
- 17 1 +12V (Dash pin 4+6)




CB007– Cable for connecting AVDI and BRP







Cable for connecting AVDI and Deutsch 6 pin



Cable for connecting AVDI and Deutcsh 9 pin



J1850 adapter

CB008 – Cable for AVDI cable for BMW bike diagnostic connector





CB009 – AVDI cable for connection with trucks Deutcsh 6 pin (J1708) CB101 AVDI extension cable for ABPROG (ZN030)





CB102 – EXT cable for 25 pin F/M

CB103 – OBDII Y cable M/2xF





CB104 - USB A-B cable

CB201 – AVDI cable for connection with Suzuki Marine Engines type 1







CB202 – AVDI cable for connection with Suzuki Marine Engines type 2 (round)

CB203 – AVDI cable for connection with Yamaha Marine Engines





CB204 AVDI cable for connection with Evinrude Marine Engines CB205 Evinrude Flash Update cable





CB301 – AVDI cable for connection with Aprilia Bikes

CB302 – AVDI cable for connection with KTM Bikes



CB303 – AVDI cable for connection with Benelli Bikes CB304 – AVDI cable for connection with Suzuki Bikes (6 pins)





CB305 – AVDI cable for connection with Harley-Davidson Bikes



CB306 – AVDI cable for connection with Piaggio Bikes





The PROTAG programmer needs to be connected to the PC via the intended USB cable only.

ZN030 ABPROG programmer





Abrites Diagnostics AVDI Common User Manual

ZN032 – ABPROG NEC adapter with socket

ZN033 – ABPROG NEC adapter





ZN036 – IR AVDI cable

Renault CAN adapter





ZN051 Distribution Box



The ZN051 Distribution Box is mainly used together with the MN026 Special function for Abrites Diagnostics For Mercedes and VN004 Special function for VAG. The main purpose is to export the password from the EZS 10 times faster than without the DS Box(MN026) and to read engine ECU in boot mode. It has a hidden relay, which cuts the ignition when needed and re-connects it once again automatically. The DS Box allows us to connect it clean between the AVDI and the OBD. In addition to the Fuse Relay that is now built into the Abrites Distribution Box, it's work can also be monitored by the built-in LED.

Using the ZN051 we also open the door for many new features. It allows us to work easily with boot mode on EDC17/ MED17 boot mode for the Abrites diagnostics for VAG and others as well.

The distribution box now also includes the option to be updated so all new future functions and features will be available immediately.

The ZN051 set contains 9 pieces, which are as follows:



Needle Connectors



DB25 Connector Cable CAN HI and CAN LOW long cables



Distribution Box

The kit will also include 5 resistors.



DB15 Boot Mode Connector Cable



Fuse Adapter Cable ,Crocks Cable and 1 K-line Cable



Pin Connectors (Used for EM001 update)

Distribution Box connection ports:



1st two ports (Red and Blue) are for CAN HI and CAN LOW 6-14, the 2nd ports below them are for CAN HI and CAN LOW 3-11. These ports are mainly used when virginizing and adapting Mercedes TCUs and ECUs when using MN026.

Both Green ports K1 and K7 are used for the K-Line connection (K7 has to be used when exporting a password from Mercedes EZS whn using the Relay method).

B+ and GND ports are used when updating EM001 Emulator.

The Relay Ports are both in red and this is where the Fuse Adapter is connected.

TA31 Abrites Extractor

The TA31 Abrites Extractor can be used to obtain the 7th byte in VAG cars. It is also used in some Hyundai/Kia cars to read the PIN code from a working key, together with the TA31 Abrites Extractor. Below you will find two photos of the TA31 Extractor and how it should be properly placed next to the ignition:





TA41 Subaru DST-AES Emulator

The TA41 Subaru DST-AES Emulator has the ability to emulate a Master key and be used as a key for Subaru H type bladed keys. It requires the Abrites ZN002 to be programmed.

It is used together with the SB001 special function in Subaru ALL KEYS LOST H-type bladed (mechanical) key situations.

The TA41 can also be used and programmed as a key to the vehicle and used as one. It covers the functionality of the ZN066 however requires a PROTAG to do so.



ZN040-A6/A7/A8 CAN Adapter

The Abrites A6/A7/A8 CAN Adapter is used in order to make the ALL KEYS LOST procedure for Audi A6/A7/A8 easier providing all necessary connections (OBD,DB25 and CAN separator connector). The set has a separate OBD plug that shorts PIN 1 and 16 on the OBD connector of the car to force ignition while reading the ELV using the green K-line cable.



ZN046 - PCF for ABPROG

ZN047 - Field Detector Renault card 125 kHz





ZN048 - Field Detector Universal Key 125/20 kHz

ZN052-Abrites cable set for adapting IMMO parts used together with VN005





ZN053-AVDI Extractor Cable used with VN006 special function

ZN054-Extension cable set for direct CAN connection for VAG vehicles



ZN055 - ABPROG EWS3 adapter



ZN056-Honda K-line adapter



ZN057-EEPROM wire extender for ABPROG EEPROM/BCM adapter





ZN058-V850E2 adapter for ABPROG



ZN059-VAG VDO Cluster Adapter



ZN060 - VAG Micronas (new style connector) Cluster Adapter



ZN062 - 12V/0.5A DC Power adapter (used with ZN055 EWS3 adapter)



ZN063 - 12V/1A DC Power adapter (used with ZN059 - mini DB - VDO and ZN060 - mini DB -Mictronas)



November

2019

ZN065 - PWM Voltage converter

The PWM voltage converter is to be used only in cases when reading an ECU on bench requires the PWMs to be powered with 5V, instead of the usual 3.3V. The PWM voltage converter is compatible ONLY with DSBox v. 2.3)."





06. LICENSE VIEWER



| License viewer | 1000 | |) |
|--|------|----|---|
| | | | |
| iterface XXXXXX configuration: | | | |
| ¹⁶ VAG | | | |
| VN001 - Odometer | | | |
| AN002 - Cluster CAN | | | |
| AN006 - Cluster K-Line | | | |
| AN007 - ECU ConfData | | | |
| AN012 - EDC16 calibration | | | |
| AN028 - Cluster CAN UDS | | | |
| AN033 - ECU ConfData (EDC15, ME7.x.x) | | | |
| AN034 - Cluster - PIN/Calibration - K-Line | | | |
| AN044 - Instrument Cluster/Engine Control Module Recalibration | | | |
| VN002 - Part exchange | | | |
| AN003 - Cluster PIN-CAN | | | |
| AN004 - Immo panel | | | |
| 🗸 AN005 - Immo panel EDC16 | | | |
| AN006 - Cluster K-Line | | | |
| AN007 - ECU ConfData | | | |
| 🗸 AN008 - Flash Counters | | | |
| 🖌 AN010 - Airbag ConfData | | | |
| 🗸 AN011 - TV Configuration | | | |
| AN014 - EDC17 PIN | | | |
| AN015 - Flash Memory ECU | | | |
| 🖌 AN021 - ME7 ConfData | | | |
| AN022 - CDC32xx Programmer | | | |
| AN023 - VW Crafter | | | |
| AN025 - EDC16/MED9/Simo PIN/CS | | | |
| AM029 IMMO Dista Immobiliaer /ECU | | | |
| | | ОК | _ |
| | | UK | |

Using the license viewer you can check your licenses yourself at any time by typing **"License viewer"** in the Windows search menu.