

# **FCA ONLINE USER MANUAL**



### Important notes

The Abrites software and hardware products are developed, designed and manufactured by Abrites Ltd. During the production process we comply to all safety and quality regulations and standards, aiming at highest production quality. The Abrites hardware and software products are designed to build a coherent ecosystem, which effectively solves a wide range of vehicle-related tasks, such as:

Diagnostic scanning; Key programming; Module replacement, ECU programming; Configuration and coding.

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There are certain conditions, upon which the warranty cannot be applied. The warranty shall not apply to damages and defects caused by natural disaster, misuse, improper use, unusual use, negligence, failure to observe the instructions for use issued by Abrites, modifications of the device, repair works performed by unauthorized persons. For example, when the damage of the hardware has occurred due to incompatible electricity supply, mechanical or water damage, as well as fire, flood or thunder storm, the warranty does not apply.

Each warranty claim is inspected individually by our team and the decision is based upon thorough case consideration.

Read the full hardware warranty terms on our website.

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Abrites assumes no responsibility for any damage resulting from the use, misuse, or negligent use of the hardware or any software application.

# Safety information

The Abrites products are to be used by trained and experienced users in diagnostics and reprogramming of vehicles and equipment. The user is assumed to have a good understanding of vehicle electronic systems, as well as potential hazards while working around vehicles. There are numerous safety situations that cannot be foreseen, thus we recommend that the user read and follow all safety messages in the available manual, on all equipment they use, including vehicle manuals, as well as internal shop documents and operating procedures.

#### Some important points:

Block all wheels of the vehicle when testing. Be cautious when working around electricity.

Do not ignore the risk of shock from vehicle and building-level voltages.

Do not smoke, or allow sparks/flame near any part of the vehicle fuel system or batteries.

Always work in an adequately ventilated area, vehicle exhaust fumes should be directed towards the exit of the shop.

Do not use this product where fuel, fuel vapours, or other combustibles could ignite.

In case any technical difficulties occur, please contact the

Abrites Support Team by email at <a href="mailto:support@abrites.com">support@abrites.com</a>.

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# List of revisions

Date	Chapter	Description	Revision
15.03.2023	ALL	Document created.	1.0

### 1. Introduction

Congratulations on choosing our wonderful product!

The "FCA Online" is an online server based Abrites software for vehicles from the FCA Group.

In order to operate, the software requires you to have an AVDI interface, a Windows based PC with a minimum of 1024MB RAM, 64GB of free hard drive space and at least Windows 7 64bit Service Pack 1 or later version to operate. For optimal operation, it is always recomended to have the latest software version installed, active AMS, and a stable Internet connection.

With the help of this software you can perform basic and advaced software fucntionalities such as vehicle scan, read/clear DTCS, monitor live values, module adaptation and replacement (VIN Change).

For proper operation of your diagnostic software you will need a corresponding interface for connection between your PC and vehicle named "AVDI". "AVDI" stands for "Abrites Vehicle Diagnostic Interface." It is produced by Abrites Ltd. and intended to act as an interface between the PC and the electronic control units.

Please check the "license viewer" installed on your computer for your unique interface ID number.

The software is in constant development and its functionality is ever growing. The intentions for the Abrites Software are to be used by automotive specialists, but it is simultaneously designed in such a way that is accessible to enthusiasts as well.

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

ABRITES is a trade mark of Abrites Ltd

### 2. General Information

#### 2.1 Scope of the manual

This document describes the usage of Abrites "FCA Online". The document is applicable for the latest software version. In this manual we suppose that the software for your AVDI interface is already installed. Please refer to the "AVDI Common User's Manual" in case it is not.

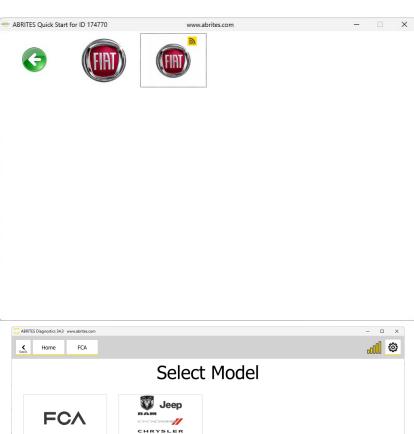
#### System requirements:

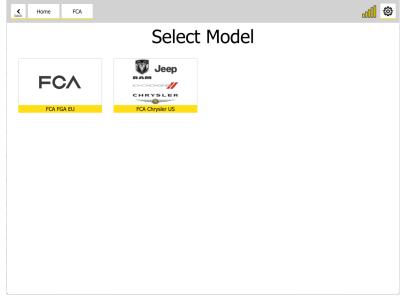
Minimum system requirements – Windows 7 SP1 + 2GB RAM (recommended 4GB)

#### 2.2 Getting Started

You can start Abrites "FCA Online" by starting the Abrites Quick Start application and selecting any of the FCA Brands.

When the FCA application is started the main screen of the application will appear where you can select the FCA Online icon.





# 3. Abrites Diagnostics for FCA Online

ABRITES Diagnostics for FCA Online brings improved user experience.

When starting the software it is recommended to have the vehicle connected to an external power source in order to be sure that the vehicle does not loose power during the time spent working on it. When the software is started the vehicle will be automatically detected and General Diagnostics screen will be displayed and the scanning of the modules will automatically start.

Using the Abrites Diagnostics for FCA Online we have access to basic diagnostic functionalities and special functions.

IMPORTANT: Internet connection is required!

Some of the general diagnistic functionalities are:

- Scaning for modules
- Read and Clear DTCs
- Monitoring Live Data
- and more

Apart from the basic diagnostic functions the Abrites diagnostics for FCA Online allows the user to perform various diagnostic functions at an extremely high diagnostic level. Such functions include:

- VIN change
- Module Replacement and Adaptation

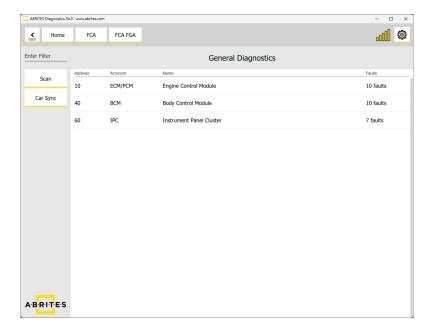
## 4. General Diagnostic Functionalities

Once started, the software will go through all available protocols and will identify all available modules in the vehicle you are working on. You could then enter each module and you will see all available options for it Abrites Diagnostics for FCA online has the following basic dianostic functionalities:

- Vehicle Scan
- Read/Clear DTCs
- Monitor Live Values 4.2

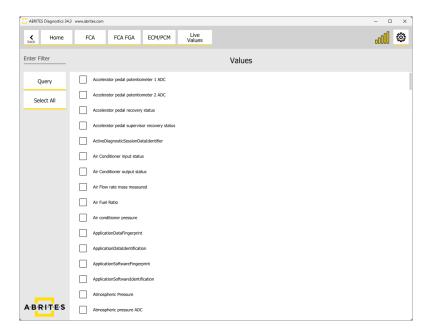
#### 4.1 Scan

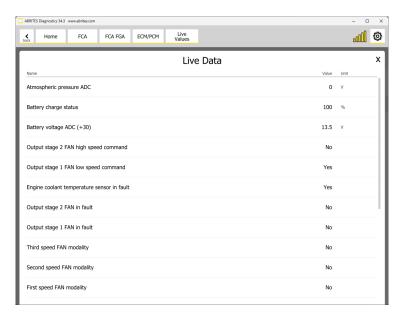
When pressing the Scan button the user will see the electronic modules installed in the vehicle they are currently working with. The number of faults within each will also be displayed.



#### 4.2 Monitor Live Values

In order to display the live values of a module within a vehicle the user should select the module they would like to view the live values for, open it and select "Live values". A list of the available parametes will be displayed, you can choose certain parameters to monitor, or select all and monitor them im a query mode.

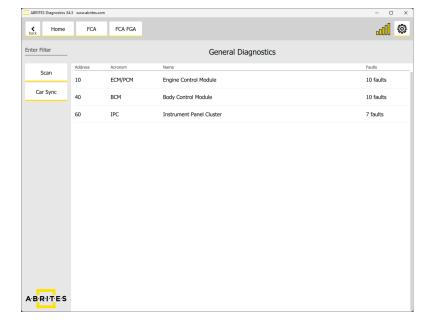




# 5. Special Functions

The software provides special diagnostic functions in order to assist the user to perform advanced diagnostics on vehicle from the FCA Group. The available special functions are displayed on the left side of the main screen of the software, in a list form in the menu bar. You can open the required special function by clicking on it

Car Sync is a special function, which lets you syncronyze VIN (Vehicle identification numbers) in all modules in your vehicle, thus letting you replace and adapt modules.



### 6. Car Sync Special Function

The Module Adaptation functionality for ABRITES Diagnostics for FCA software is found under the "Car Sync" special function.

With this new functionality, you will be able to adapt modules unrelated to the immobilizer of Alfa Romeo, Fiat, Jeep, and Lancia vehicles effortlessly. These modules include:

- Distronic
- ABS
- Electric power steering
- Climate control
- and many more

The procedure essentially offers a vehicle identification number synchronisation between the modules and the vehicle, which makes adaptation procedures of non-immobiliser-related modules fast and easy.

This functionality is able to change VIN in all modules of the vehicle, however, we can say it works for moduile exchange or adaptation only for the non-immobilizer related modules.

\*BCM, ECU, RFH modules need more than just VIN Change for adaptation.

#### Supported Models:

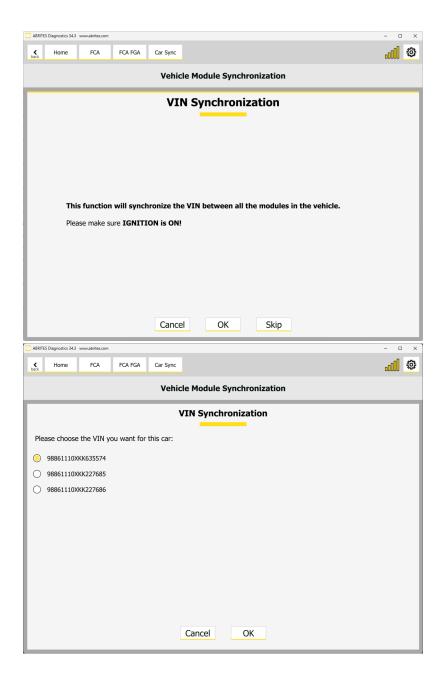
- Alfa Romeo: Giulia, Stelvio, Giulietta
- Jeep: Renegade, Compass
- Fiat: 500, 500L, 500X, Panda 319 MK4 (3rd generation), Doblo 263 (2nd generation), Fiorino/Qubo 255 (3rd generation), Ducato 250 (3rd generation)

Currently models are covered up to 2020, later models are still to be tested.

The procedure for VIN Synchronization is used when you want to adapt a non-immobilizer related module. You can start it from the main diagnostic screen > select Car Sync button on the left side.

Here is how the procedure is executed:

- 1. Select "Car Sync" and click OK to start the procedure
- 2. The software will collect and show the available VINs from the modules in the vehicle
- 3. Select the VIN that you want to be written in all modules
- 4. The software will start VIN change/synchronization procedure and proxi alignment



Proxi Alignment is needed after VIN change in FCA vehicle, the procedure does it automatically.

N.B.: If you want to add/remove modules in the car, you will need to change the CAN configuration (proxi) of the vehicle from the Abrites Diagnostics for FCA (offline). FN021 will be required.

