



# MODI

## Mobile Diagnostics

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**User manual**  
version 2.0



## Important notes

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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.

The Mobile diagnostic interface (MODI) is providing access to car health check and hundreds of activations and custom options.

- Full vehicle scan
- See Live or graph data
- Coding and adaptations
- Clear fault codes

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## Warranty

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You, as a purchaser of Abrites hardware products, are entitled of a two-year warranty. If the hardware product you have purchased has been properly connected, and used according to its respective instructions, it should function correctly. In case the product does not function as expected, you are able to claim warranty within the stated terms. Abrites Ltd. is entitled to require evidence of the defect or malfunction, upon which the decision to repair or substitute the product shall be made.

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](#).

## Copyright information

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### Notices:

- The information contained in this document is subject to change without prior notice. Abrites shall not be held liable for technical/editorial errors, or omissions herein.
- Warranties for Abrites products and services are set forth in the express written warranty statements accompanying the product. Nothing herein should be construed as constituting any additional warranty.
- Abrites assumes no responsibility for any damage resulting from the use, misuse, or negligent use of the hardware or any software application.

## Safety information

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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

**Abrates Support Team by email at [support@abrites.com](mailto:support@abrites.com).**

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## I. Introduction

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As the world's modern society moves forward, it is inevitable to try and look for more means to combine efficiency with comfort and practicality. It is because we at Abrites understand the problematics and necessities of this "fast-paced" reality, that we did our best to develop our new product in a way where results could be seen in the matter of seconds, requiring only a smart-phone or a tablet.

The Abrites Mobile Diagnostics Interface is a convenient, reliable and efficient hand-held device used together with Android or iOS based mobile devices, in order to provide you with the opportunity to run swift mobile diagnostics of your vehicle, so you can distinguish any fault codes in specific modules.

Another great feature that the Abrites MODI provides is that the device allows easy actuation of various components of the selected vehicle, as well as making queries concerning live data from different modules. Simultaneously with this, the Abrites Mobile Diagnostics Interface is also programmed to portray this live data graphically.

Abrates Mobile Diagnostics Interface looks like this:

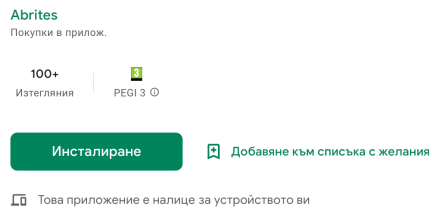


## II. Using the Abrites MODI

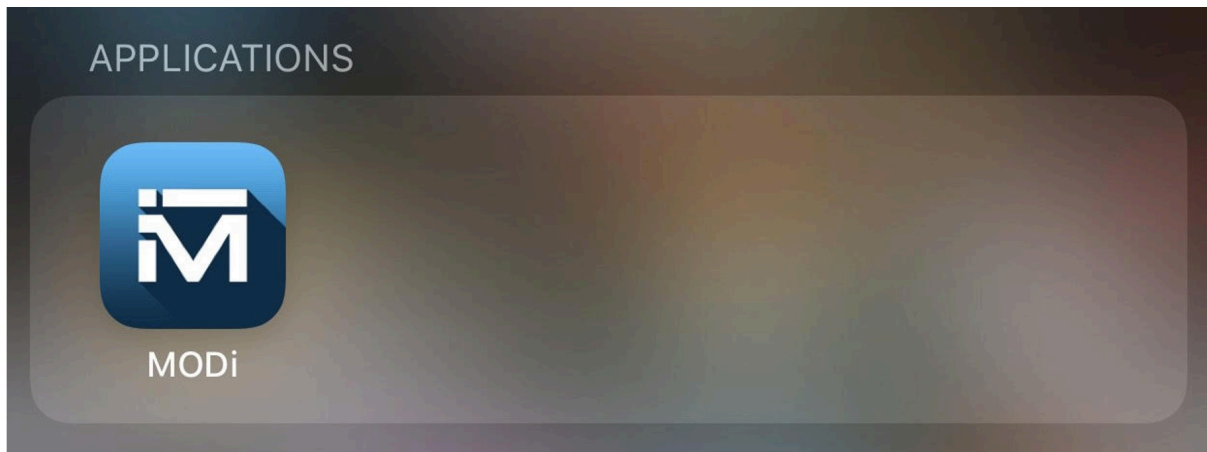
### 1. Installation

Once the MODI is received, you can download the Abrites MODI software, as well. It looks like this in the Google Play Store®, Apple App Store®, or App Gallery®:

## MODI Mobile Diagnostics



After installing the Abrites MODI application software, it will appear in the list of installed applications of either the Android, iOS, or HarmonyOS based mobile device.



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## 2. Setting your MODI Interface up

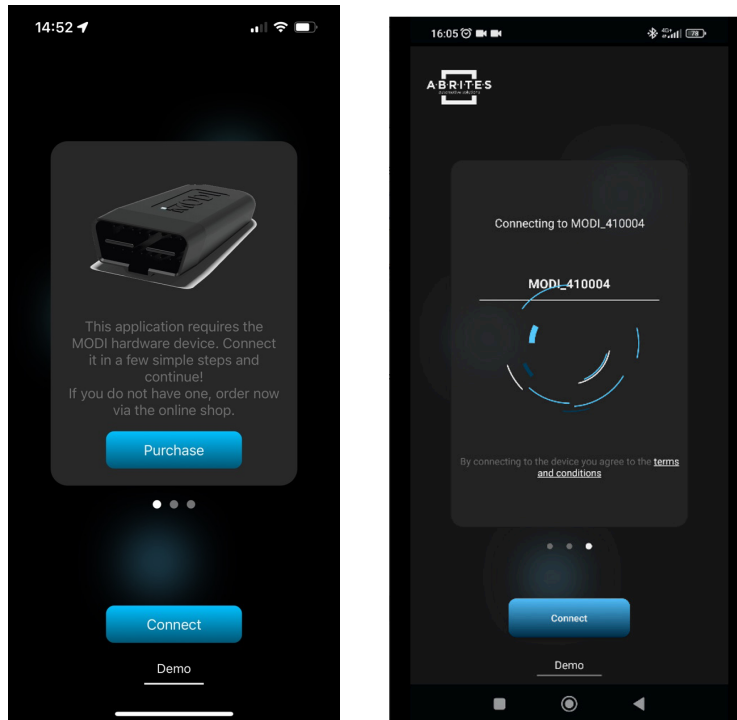
To begin working with the Mobile Diagnostics Interface, it will be necessary to first enable Bluetooth on the given Android, IOS, or HarmonyOS based mobile device. This can be done by going to the settings menu, then bluetooth, then enable. Once the bluetooth is enabled the MODI application can be opened and set up.



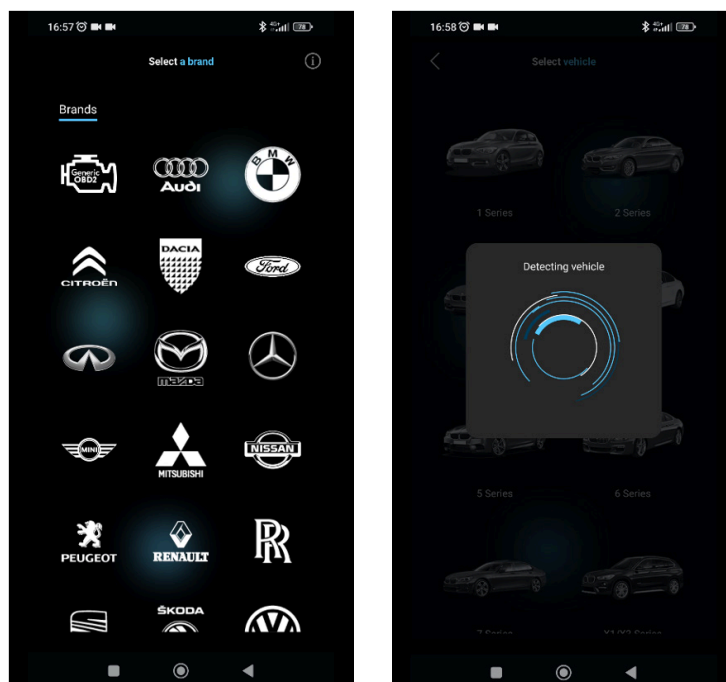
Once the software is opened , the following two options will be provided:

- The first one is to connect to the MODI device (therefore a scanning process is automatically launched by the application, in order for your device to be discovered). This could be done by simply pressing the “Connect” button which will be displayed on the provided device. Keep in mind that in order for the device to be discovered by the application it needs to be supplied with power\*. In order to supply your MODI device with power, you will need to insert it in the vehicle’s OBD II port. Following the scanning process, a list device window will appear, where the personal MODI of the user should be selected.
- The second option that will be provided is to run a DEMO process. The DEMO process does not require the MODI device to be inserted in the vehicles OBDII port.

Once the MODI is connected to a power supply and the Bluetooth of the device used is ON, the MODI device which is going to be used could be selected. The Mobile Diagnostics Interface can now be used.

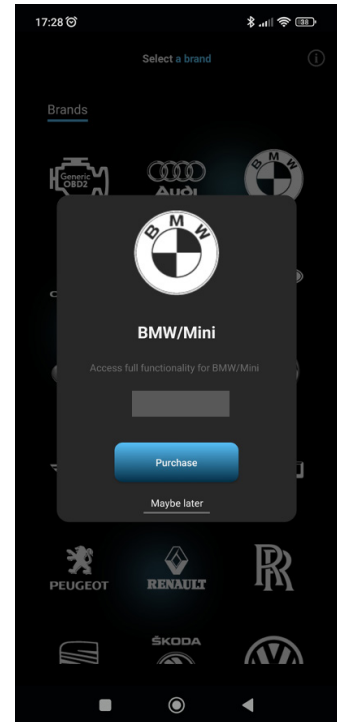


The next step is to select the brand which is going to be worked with, after that the MODI will start an automatic vehicle identification.

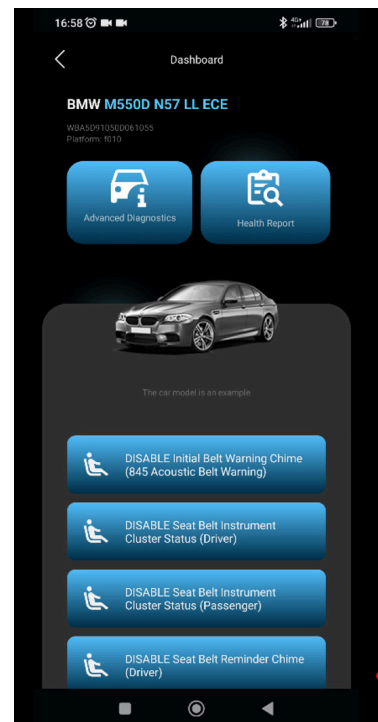




If you press and hold on a selected logo an additional window is going to appear, which will enable you to buy the full functions for the given brand



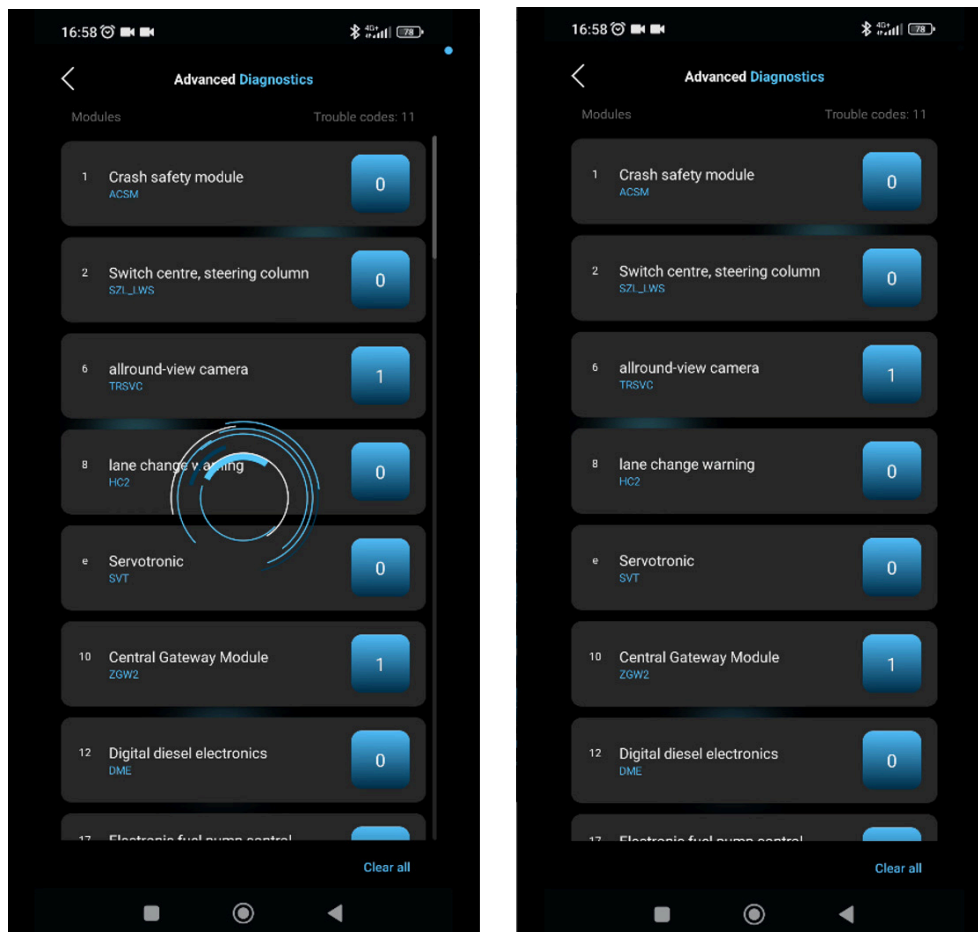
Once the vehicle is identified, the following screen with advanced diagnostic and coding options will be displayed:



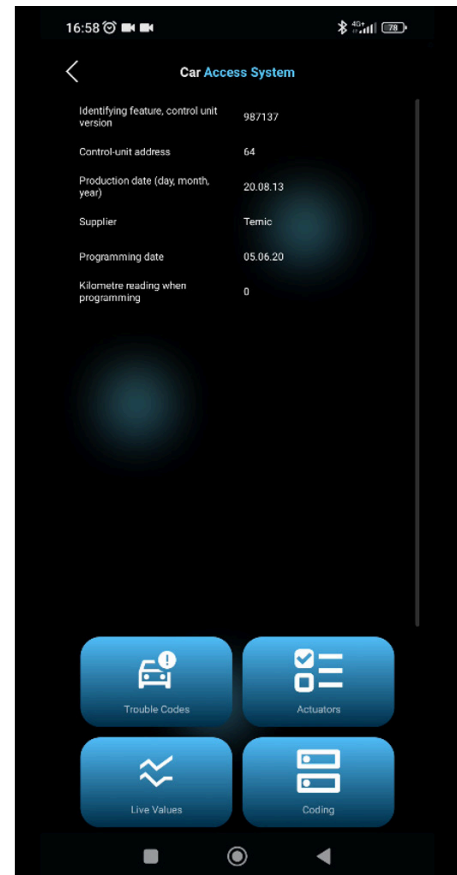
### III. Using Abrites MODI Device in a vehicle

From this point on, the MODI device is going to communicate via the bluetooth connection made with the mobile device.

After the Advanced Diagnostics option is selected, the Mobile Diagnostics Interface is going to run a diagnostic on the vehicle, providing information concerning the number of fault codes in the system. Additionally, the tool can also display information concerning the status of the modules in the vehicle. From there on, in order for the processed fault codes to be cleared, the “Clear all” button should be pressed. This button should be essentially found on the bottom of the mobile device display.



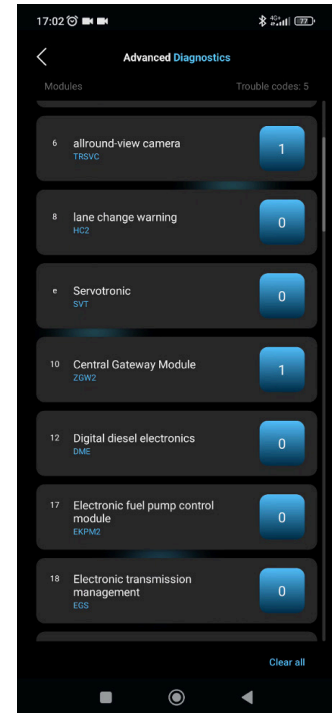
When a module is selected, the additional diagnostic functions will be displayed – trouble codes, actuators, live values, as well as the coding function with all available coding options in the selected module:



The four additional functions that could be used are the following:

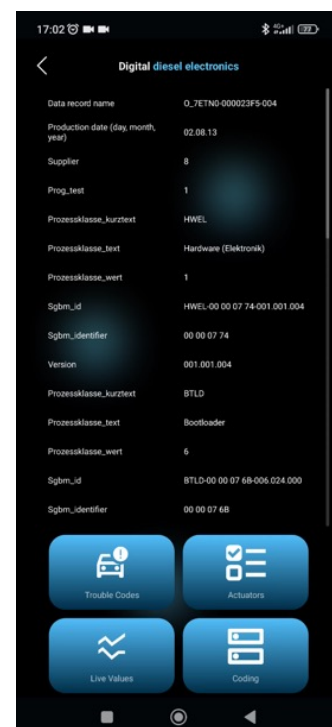
- “Actuators” (Therefore actuate listed module components of the selected vehicle).

\*In order for this to be done, a given module from the ones that are listed after the scanning process is done should be selected.

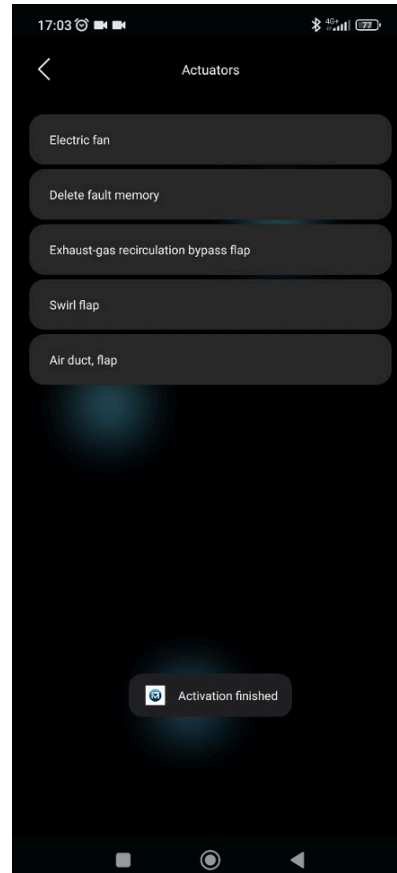
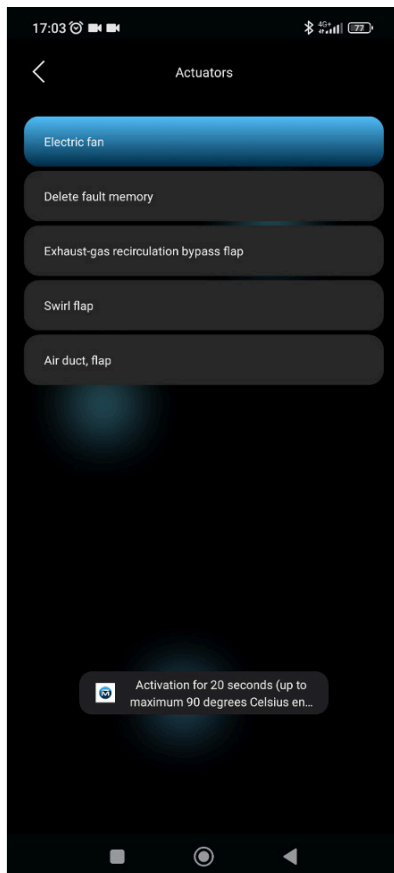


For example, let's say that the selected module is the Digital diesel electronics (DDE). This module should be pressed.

Following this step, this page will appear

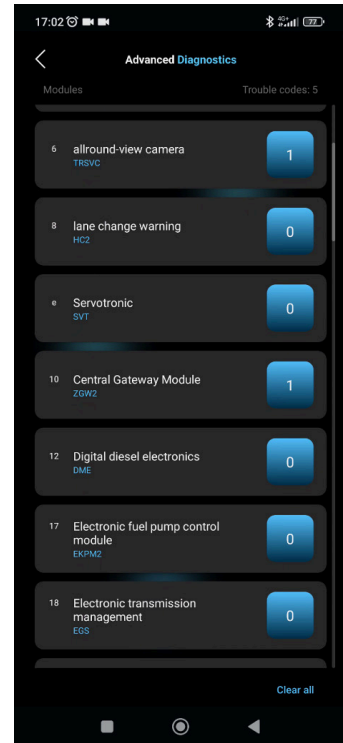


After that the “Actuators” button on the display should be pressed and the opportunity to select from the available actuators test should be provided.



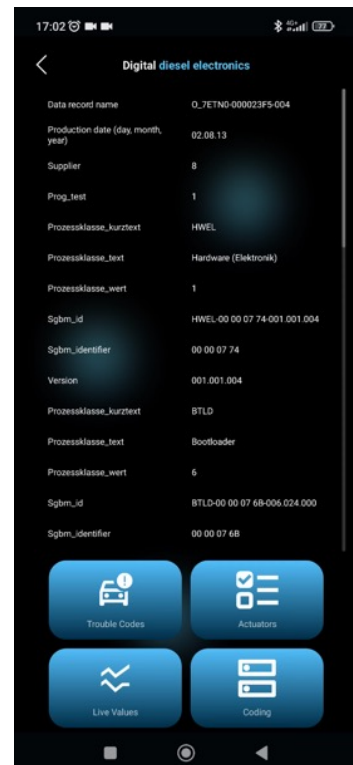
- “Live Values” / The device will provide the opportunity to make queries concerning live data of different modules, as well as to additionally portray this information graphically

\*In order for this to be done, a module from the ones listed after the scanning process has been finished should be selected.

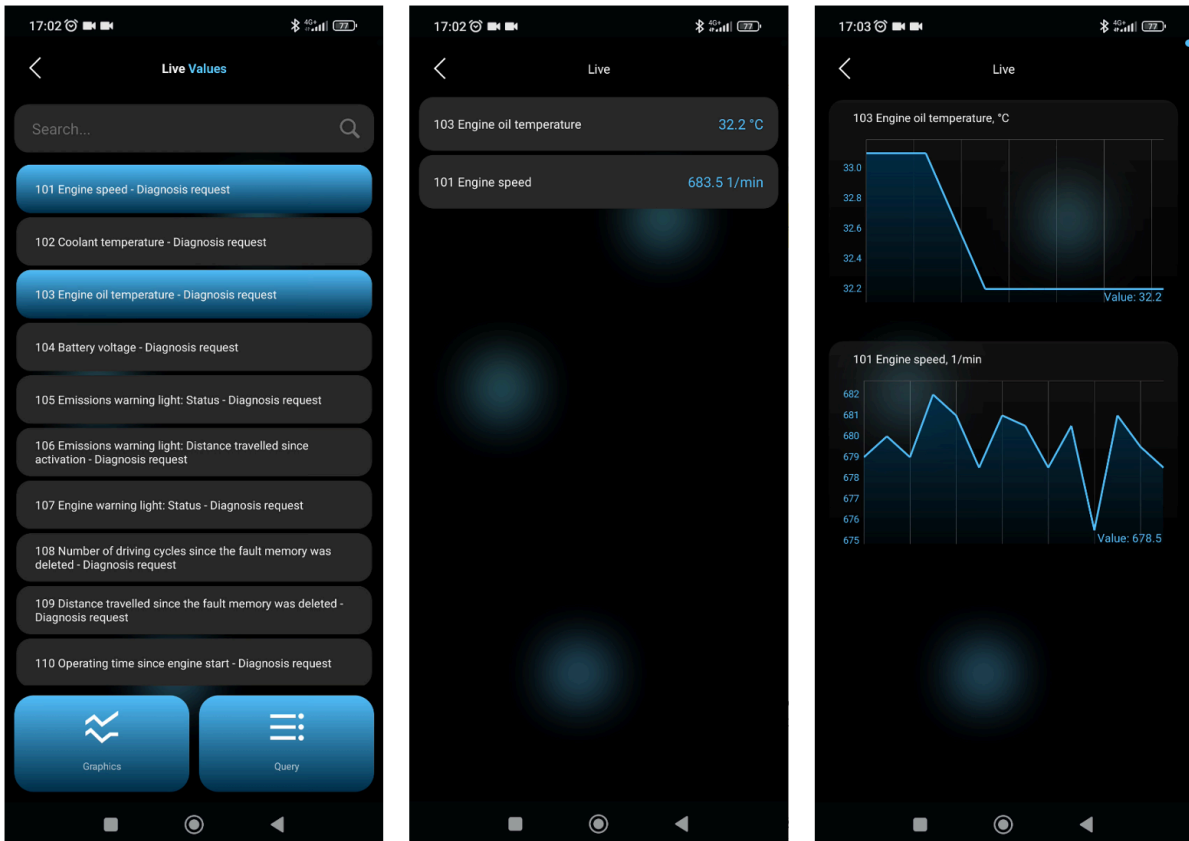


Let's say that the Digital diesel electronics (DDE) is going to be used

Redirection to this given page is going to follow once again.



Following this the “Live Values” button on the display should be pressed.



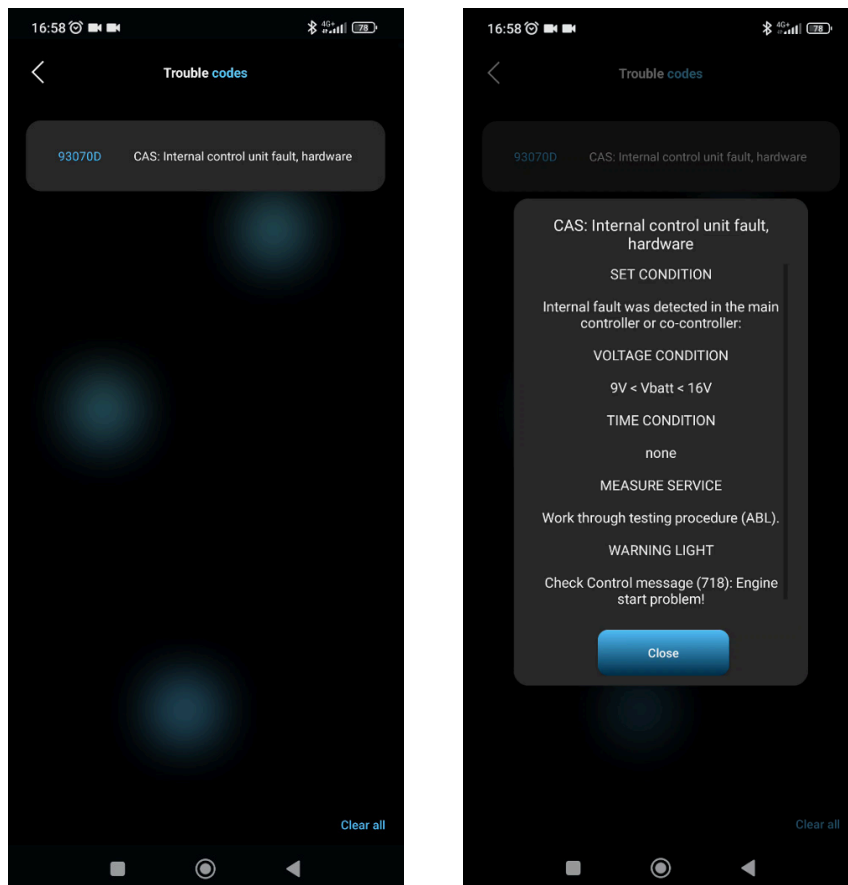
Now the option to choose from the available parameters should follow.

In order to select a specific system, or systems, it will be necessary to press and it will be selected (the color of the selected system, or systems, will turn blue).

Therefore there is the provided option to choose “Query” and receive the live engine speed and engine oil temperature, together with additional data depending on the module that has been selected. Additionally if the “Graphics” button is pressed all of the live data is going to be illustrated on a graph.

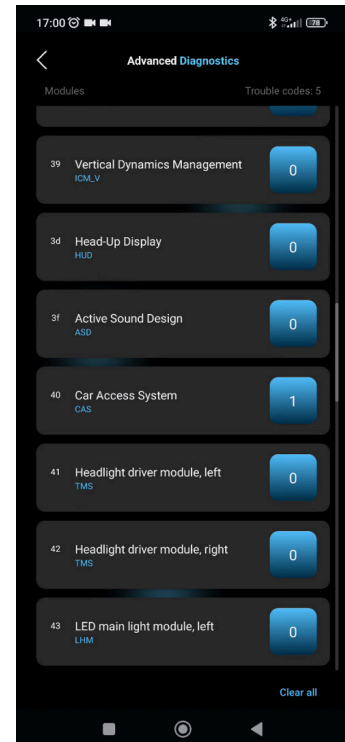
- “Trouble Codes” / This is an option which allows for the specific fault codes located in the module selected earlier to be seen.

\*In order to do this, the “Trouble Codes” button on the display should be pressed. Following this the option of clearing the trouble codes in the selected module should be available, as well as to specifically see in which components are the given faults located.



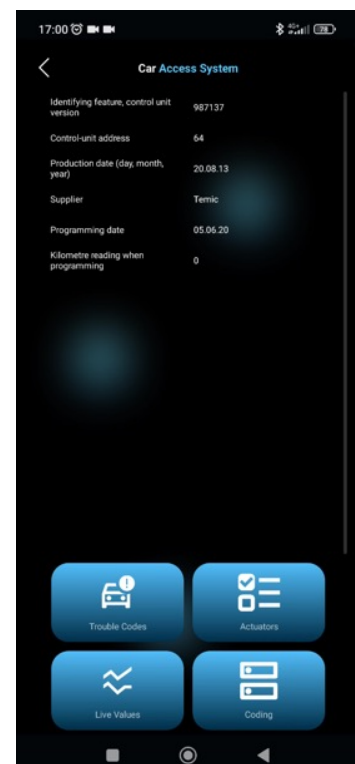


- “Coding” is an option which allows for the specific coding options in the module selected be seen and activated/disabled.

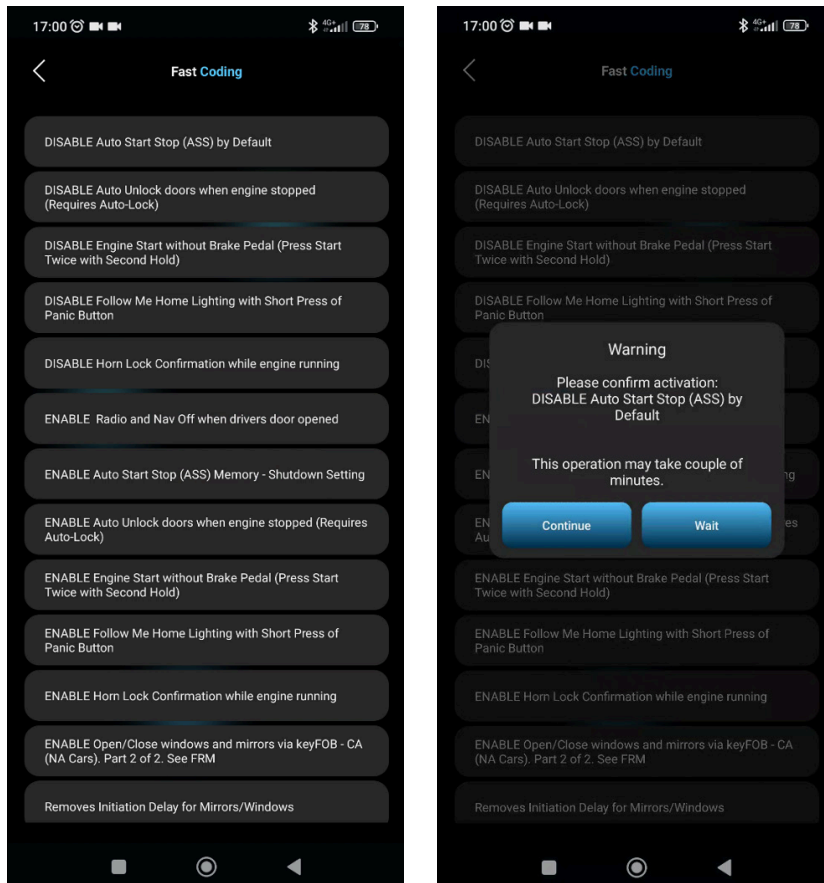


Let's say that the Car access system (CAS) is going to be used

Redirection to this given page is going to follow once again.



After that the “Coding” button on the display should be pressed and the opportunity to select from the available “fast coding” options should be provided.



## IV. Troubleshooting

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MODI connection issues troubleshooting guide:

1. Plug the MODI device into the car or a power supply.
  2. Make sure you are connected to the Internet
  3. Make sure the bluetooth is NOT paired to a phone. ( Phone settings > Bluetooth )
  4. Make sure the MODI application has access to all required permissions. (including location services — We use only bluetooth but according to regulations bluetooth usage is considered a location usage)
  5. The blue indicator lamps should blink slowly ( E.g. one blink in a second ) - If the blue lamp is always on - that means it's already connected to a phone and no other connection is possible at that time.
  6. Close the application on all nearby phones. (Make sure MODI device blinks, as described in step 4)
- If your MODI device blue indicator lamp does not blink slowly, or at all, it is possible that the vehicle's ignition is not on, therefore the MODI device has no power supply. Make sure you turn ignition ON.
  - In case any difficulty occurs while using the application or the MODI device and troubleshooting for this specific issue is not suggested in the manual, make sure to contact [support@abrites.com](mailto:support@abrites.com).

## Safety and Regulations

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### Common Advice:

Abrates Ltd. kindly asks you to make sure that you have familiarized yourself with the general guidelines related to installation, operation and maintenance of this device.

The following information is concerning safety when working with the device.

In order to avoid any unwanted damage (which could eventually lead to certain risk and even impossibility of the device to function), please keep in mind to follow the following restrictions:

- Keep the device in clean and unpolluted spaces
- Make sure that the device is not exposed to rain or moisture
- Do not use the device when your hands are not dry
- Make sure to avoid heating the device too much
- Do not leave the device to any objects or substances which are hot
- Make sure that you do not apply too much physical pressure on the device
- The device should not be thrown, twisted, bent or put below heavy objects
- Make sure to keep the device away from your mouth (the device should not be swallowed)
- Make sure that the device is not being used by minors, or individuals which are not informed on the safety regulations of the product, as well as how to operate with it
- The device should not be in the hands of infants. If the device has been swallowed (even partly), it to may lead to serious physical damage
- For your safety, do not use Modi while driving. Abrites Ltd. is not responsible in case of overcoming the security measures of the technical equipment and would like to inform that this may result in injuries or any other damages to you or third parties.

### About the product:

- Make sure not to dislocate any components of the device. Do not remove any parts from its exterior, or interior. The device is not equipped with parts, which could be eventually fixed by the buyer. The maintenance of this device is strictly done only by Abrites, when and if the warranty policy has been followed. For any questions in relation to usage, functionality and warranty repair, please email [support@abrites.com](mailto:support@abrites.com).

### Side components:

- Make sure to use only the side components (such as cables, axle boxes and etc...) that are presented to you by Abrites. Do not swap them with any components, from your choosing. The replacement of original periphery components with other may cause serious functional damage to the device.