A·B·R·I·T·E·S
automotive solutions

JAGUAR/LAND ROVER ONLINE USER MANUAL

User manual
version 1.1

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.

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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 support@abrites.com.

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List of revisions

Date	Chapter	Description	Revision
15.04.2026	ALL	Document created.	1.0
28.08.2026	3, 4, 5	Document created.	1.1

1. Introduction

Congratulations on choosing our wonderful product!

The Jaguar/Land Rover Online is an Online server based Abrites software for Jaguar and Land Rover vehicles.

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 10 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 diagnostic procedures and special functions such as: Key programing, replace RFA/KVM, rolling conde syncronization, and more.

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 Jaguar/Land Rover Online software. 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 the "AVDI Common User's Manual" in case it is not.

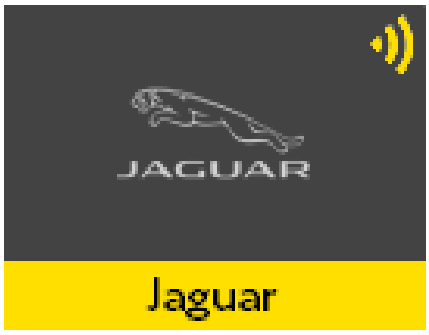
2.2 System requirements:

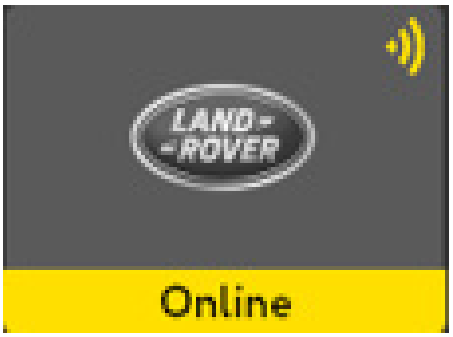
Minimum system requirements – Windows 10 or later
(recommended 4GB)

The Abrites diagnostics for Jaguar/Land Rover Online provides dealer-level diagnostics, reading and clearing DTCs, and perform special functions described in this user manual. It can be installed on any Windows-based system higher than Windows 10 and requires an AVDI interface to operate.

Internet connction is also required for the application to work. We can suggest a connection to the Internet via 3G/ 4G from a mobile device as well as a WI-FI network. Please ensure that port 8443 is allowed by your Internet service provider to ensure the correct functionality of your Abrites diagnostics for Jaguar/ Land Rover Online.

When you open the Abrites Quick Start, you should select the Abrites diagnostics for Jaguar/Land Rover:

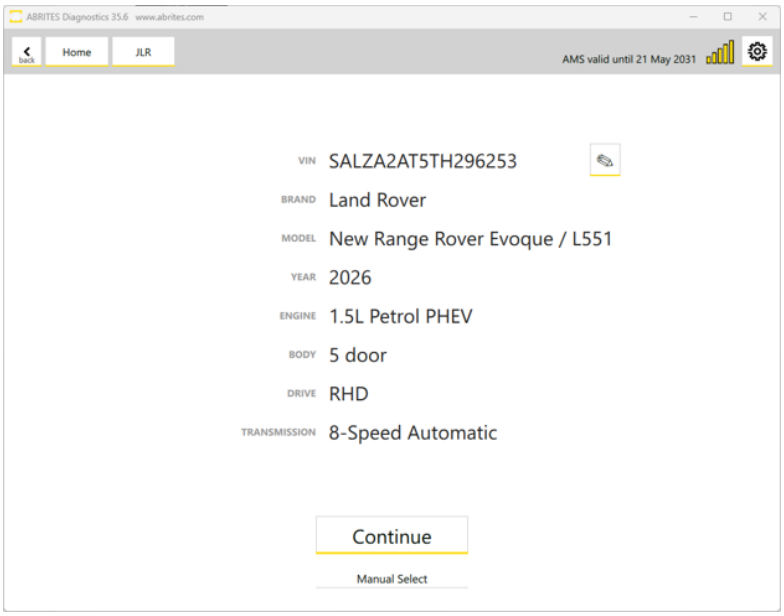


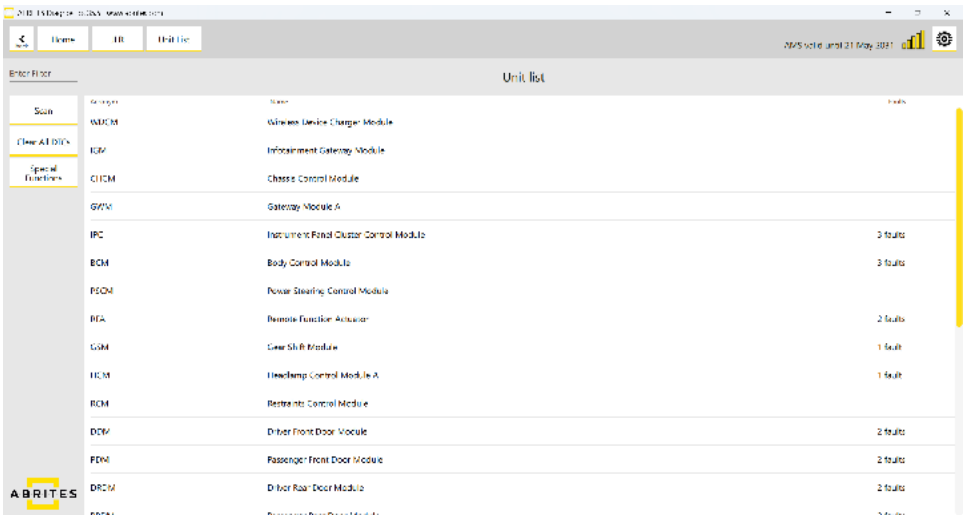


Using the icons in the top right of your software screen, you will be able to see the internet connectivity and signal strength, and the Gear icon will allow you to choose a language in which the software operates:

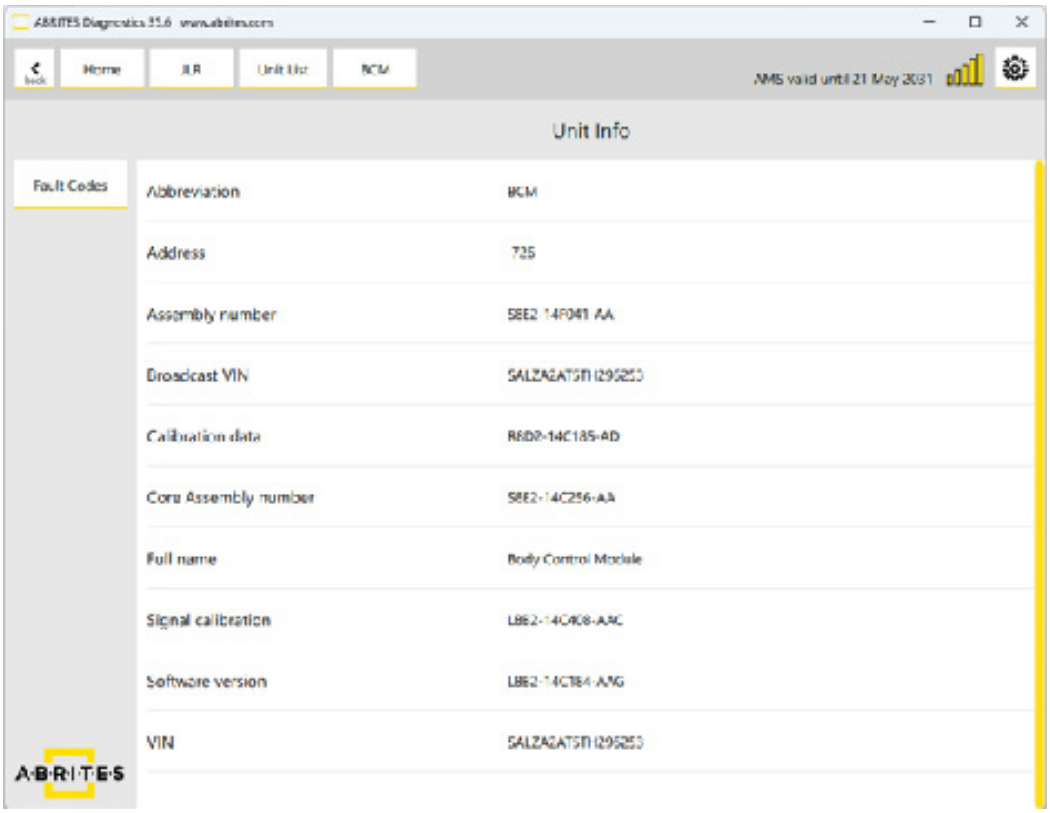
Upont starting the software, an Auto-detect button will appear. It will automatically scans the vehicle's VIN, model, year of manufacture, etc., your AVDI is connected to. (If the vehicle cannot be automatically detected, you can select it manually by clicking the Manual Select button).

Once the vehicle has been autodetected, it will scan all available modules in the car and the DTC's stored in them.





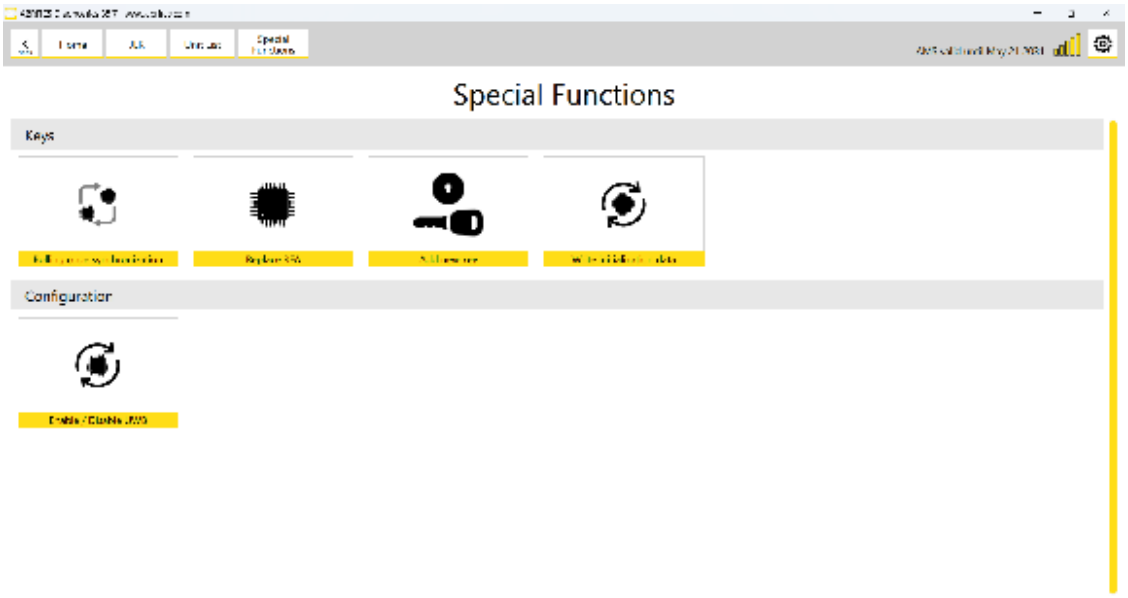
Once a unit is opened, you will be able to see the module's identification, read and clear the fault codes stored in the unit using the "Fault Codes" button:



3. Special Functions

The Special Functions section in the Abrites Diagnostics for JLR Online offers the following functionalities:

- MCU (SPC560xx) replacement of KVM/RFA
- Replace RFA (for UNLOCKED RFA modules)
- Rolling code synchronization
- Add new key (for UNLOCKED RFA modules)
- Enable/Disable UWB

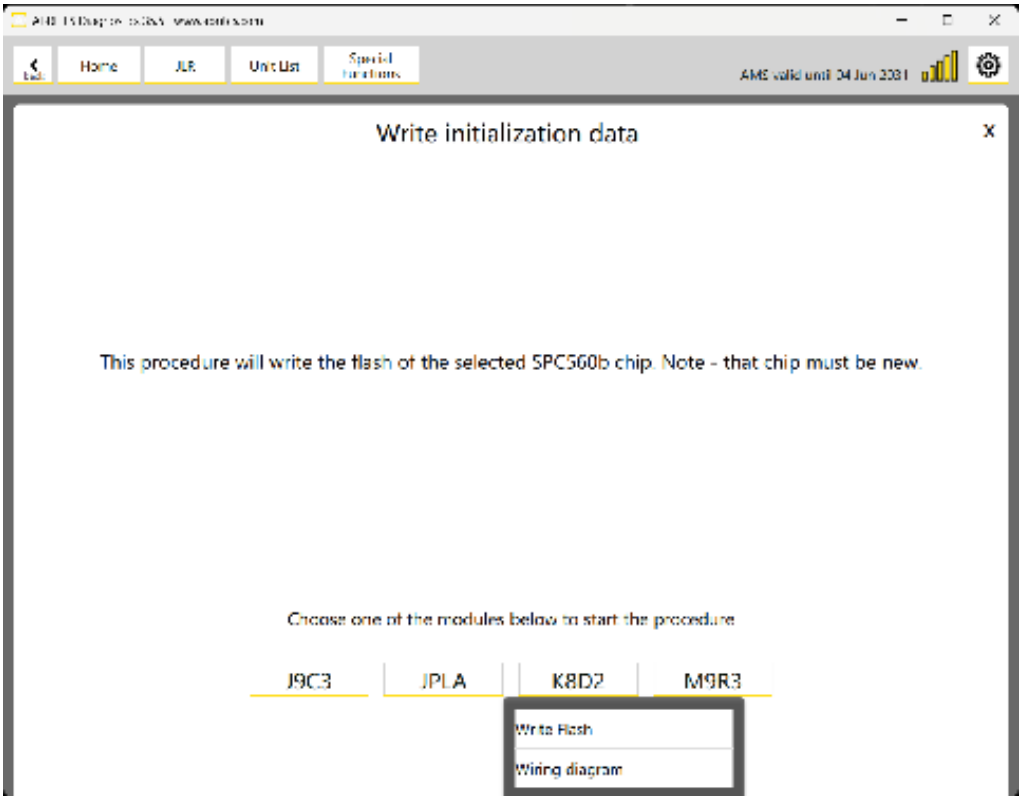


3.1 MCU (SPC560xx) Replacement of KVM/RFA

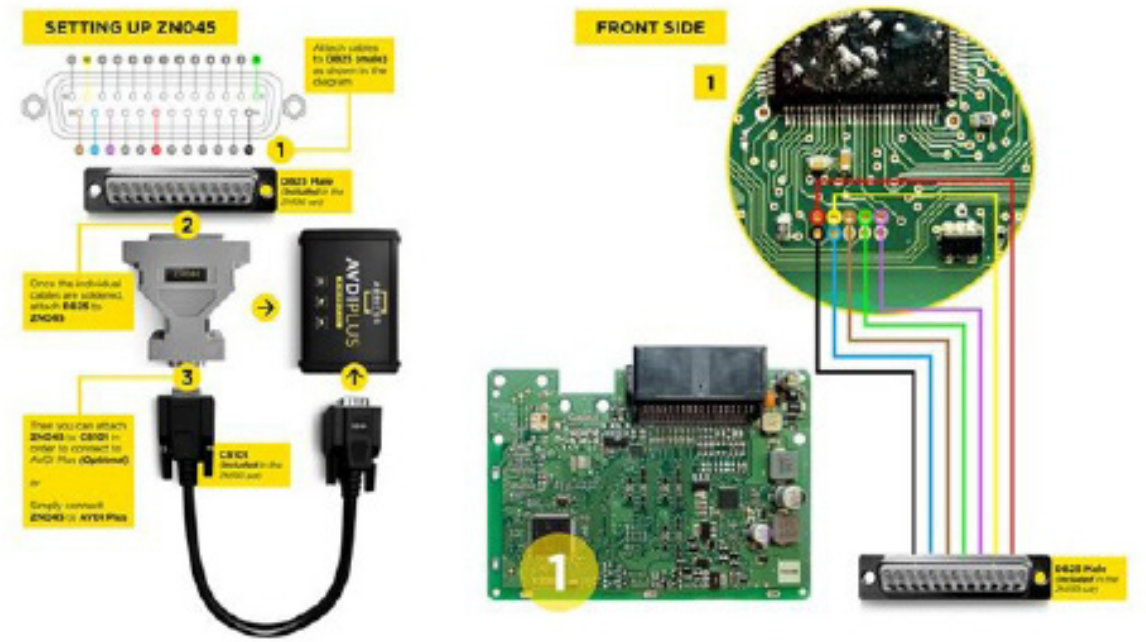
By using this functionality, you can replace the processor in JPLA, K8D2, J9C3, and M9R3 RFA/KVM modules (2018–2026). Instead of replacing the entire module, you can install a new SPC560xx processor and write the configuration data directly to it on bench. This solution is compatible with various Jaguar and Land Rover models, including Defender, Velar, Evoque, Discovery, and Range Rover.

These are the steps you should follow:

1. Remove the RFA/KVM module from the vehicle
2. Open the module and remove the SPC560 chip
3. Install a new SPC560 chip
4. Choose “Write initialization data” option in the Special function menu.
5. Choose the correct RFA/KVM type you are working on.Upon chosing the correct module, you will see buttons appear - chose the wiring diagram to see how to connect.
6. Connect to the PCB using ABProg as per the wiring diagram.
7. Write configuration data on bench via the Abrites software menu for JLR vehicles
8. Return the module in the vehicle
9. Perfrom the “Replace RFA” Procedure **(Section 3.2)**



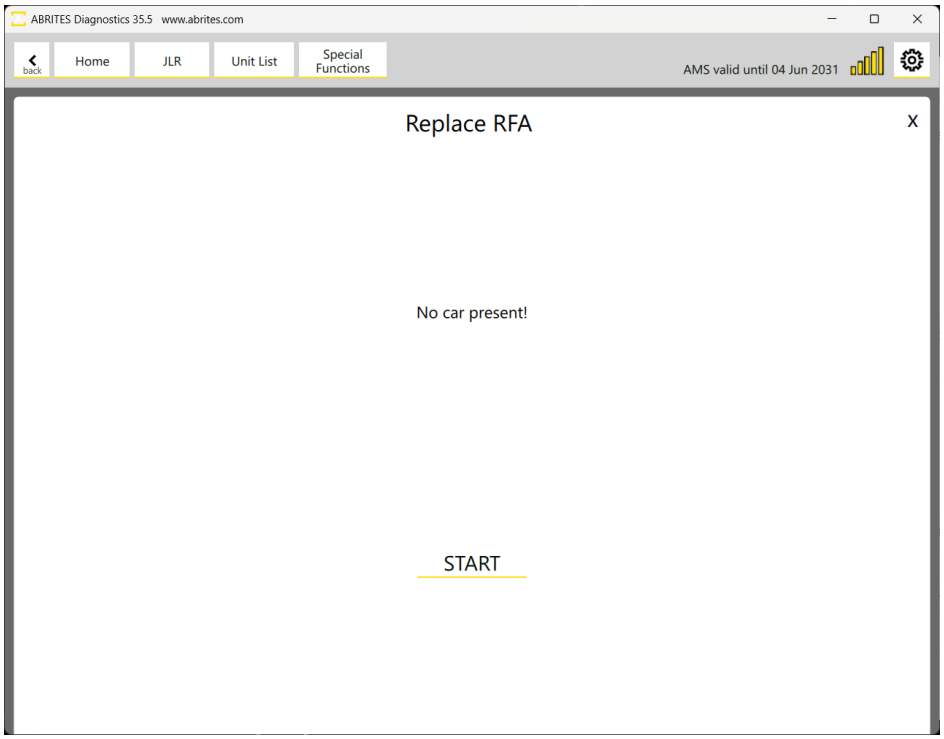
Wiring diagram:



3.2 Replace RFA

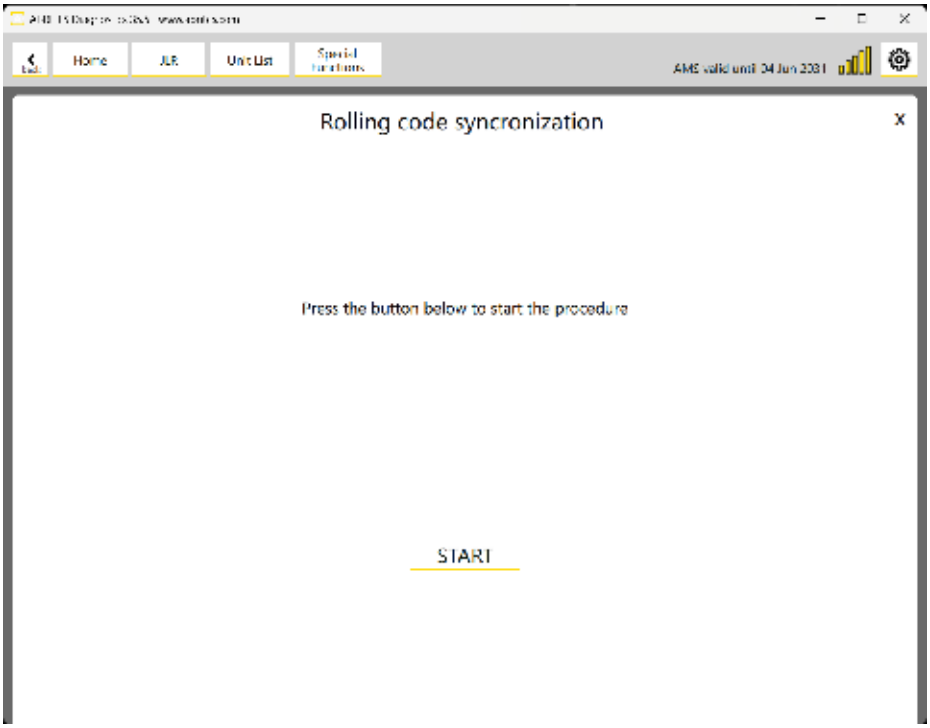
This special function is used when you need to replace the RFA module of the vehicle. Please note that only UNLOCKED RFA (with unlocked MCU) modules are supported, either brand-new, second-hand, or a module with a replaced MCU. The Replace RFA functionality will synchronize the immobilizer system of the vehicle in one click.

Important: After replacing the RFA module successfully, new keys must be programmed for the vehicle. **(Section 3.4)**



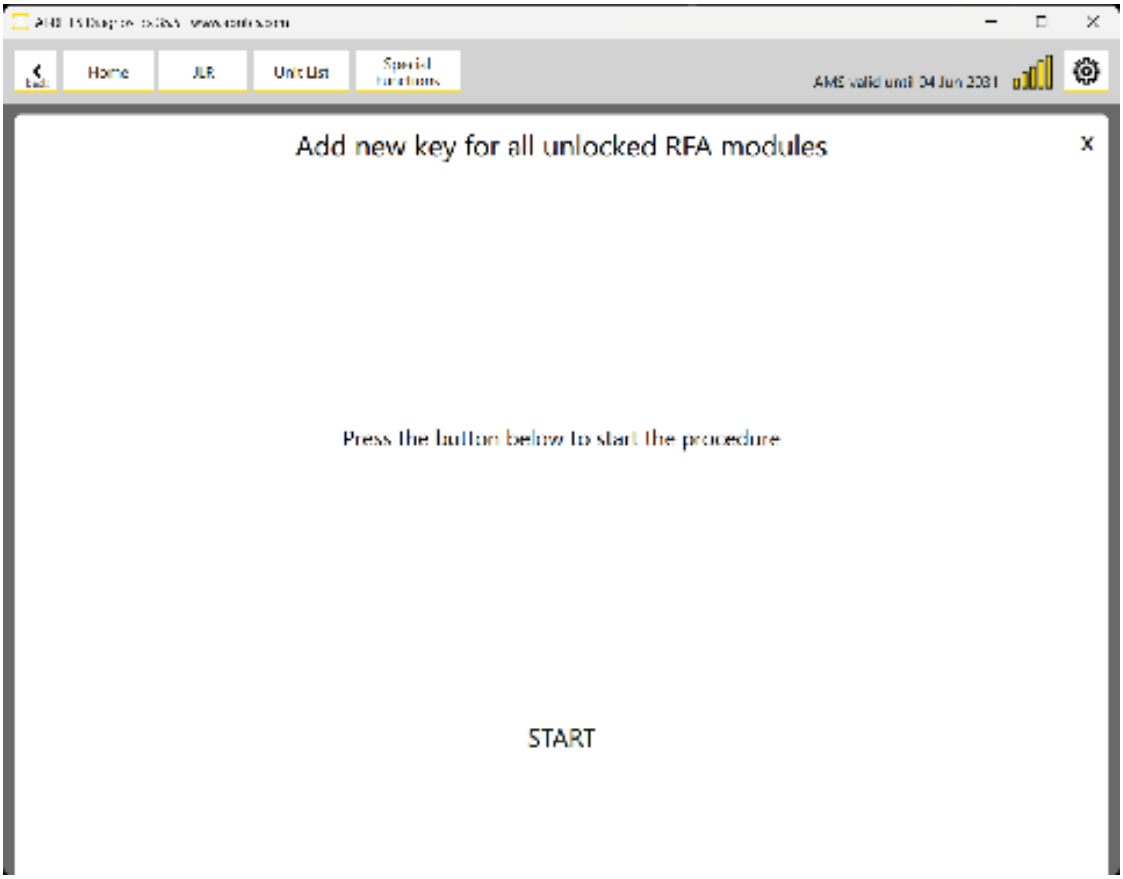
3.3 Rolling Code Synchronization

This special function works via OBDII and will synchronize the RFA (KVM) module with all door modules and the BCM. It is helpful when you have replaced the RFA (KVM) module of the car or when one or more door modules have been replaced, and the remote control no longer works. By performing the rolling code synchronization, the remote control will start working again.



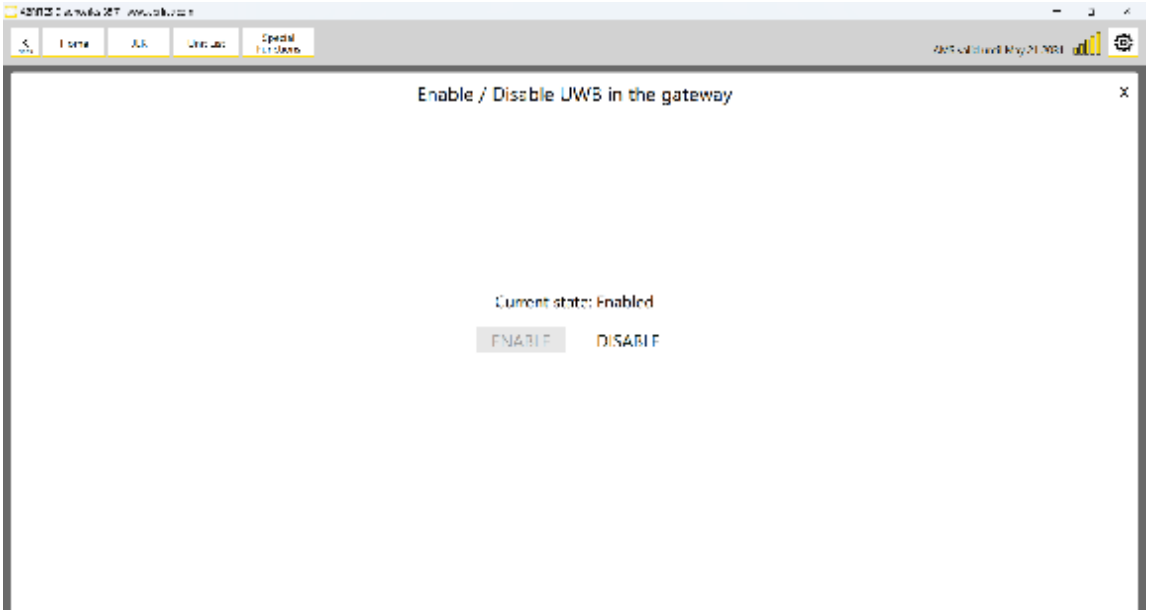
3.4 Add New Key

The “Add new key” special function allows programming a spare key for the vehicle equipped with an unlocked RFA module, and you should also have your PROTAG connected to the PC. The software will prompt you to place each of the keys you want to program onto the PROTAG with the buttons facing up. Either Abrites TA66/TA67 or original keys can be used.



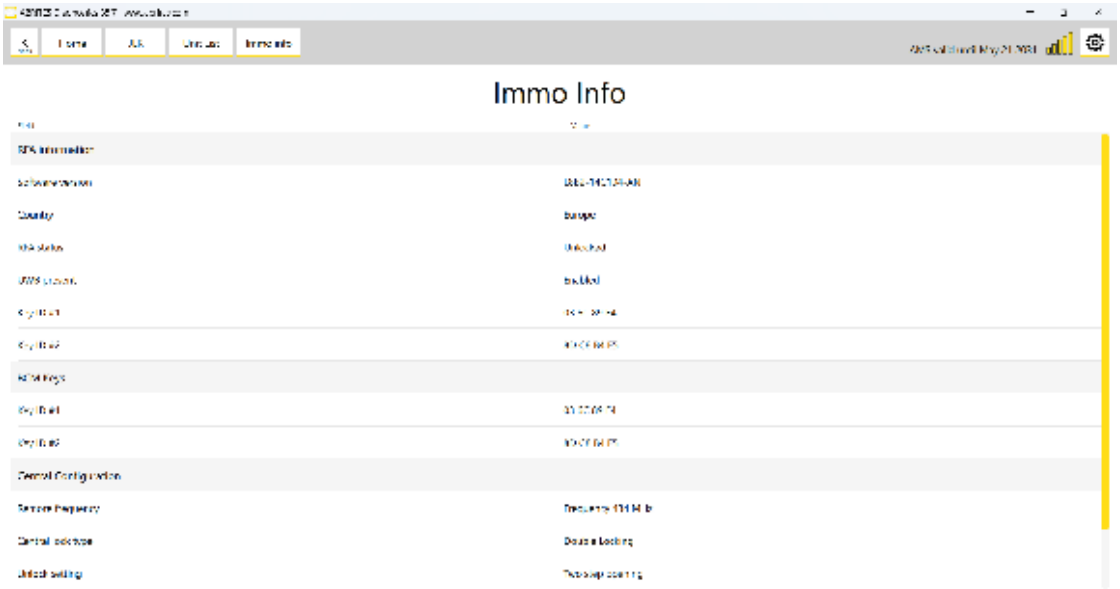
3.5 Enable/Disable UWB

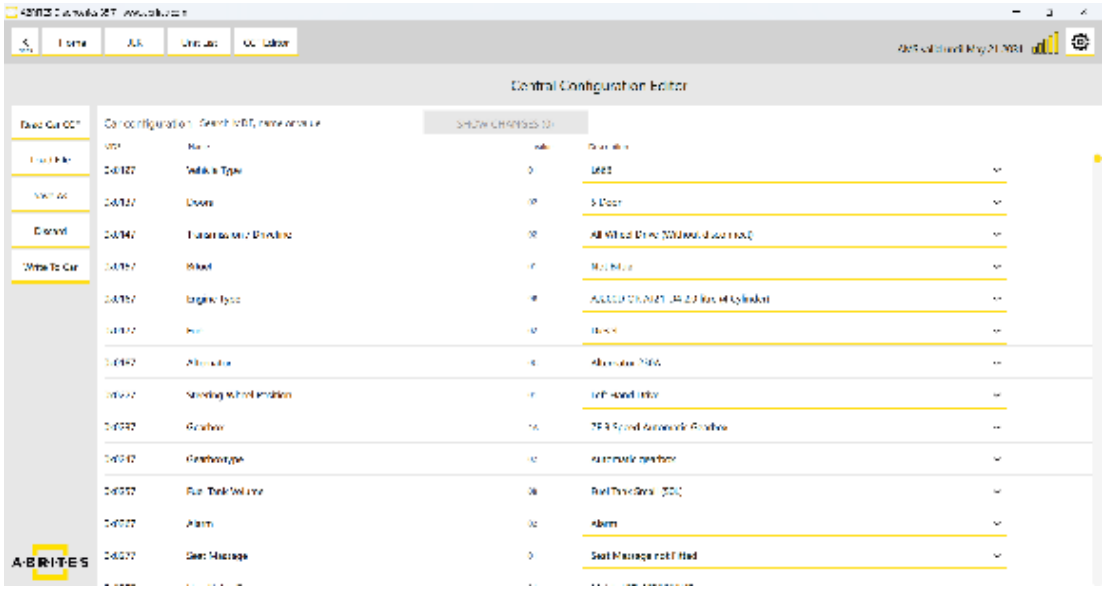
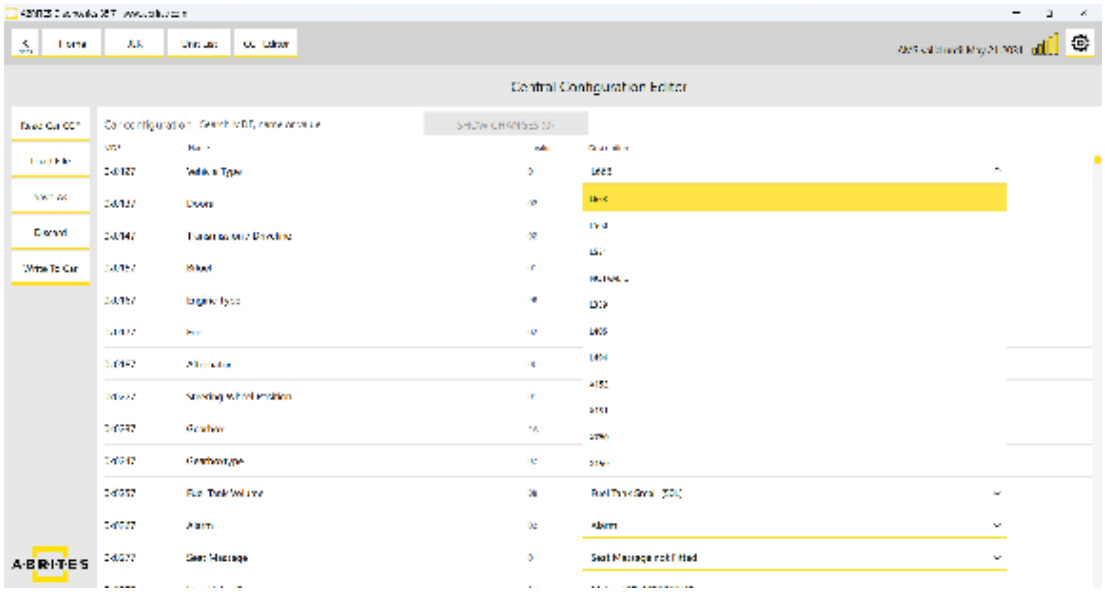
The “Enable/Disable” UWB functionality allows you to activate/deactivate the UWB on JLR vehicles equipped with an unlocked RFA/KVM module.



4. Immo Info

This Immo Info function reads the information from the RFA/KVM, BCM, and the central configuration of the vehicle. It is useful in case you need to check the RFA/KVM type and whether it is locked, to check the BCM type, or whether the vehicle is equipped with UWB or not.



5. CCF Editor

Using the CCF Editor special function, you can read, edit, and update the vehicle's configuration. You can read the CCF directly from the connected vehicle, save it to a file, or load an existing configuration saved on your PC. Once you have modified the required parameters, simply write the updated CCF back to the vehicle.