



# ABRITES DIAGNOSTICS FOR RENAULT/ DACIA ONLINE

**User manual**  
version 33.0



## Important notes

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The Abrates software and hardware products are developed, designed and manufactured by Abrates Ltd. During the production process we comply to all safety and quality regulations and standards, aiming at highest production quality. The Abrates 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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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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## 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

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

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## List of revisions

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Date	Chapter	Description	Revision
01.01.2021	ALL	Document created	1.0
10.10.2022	5	Mileage	1.1

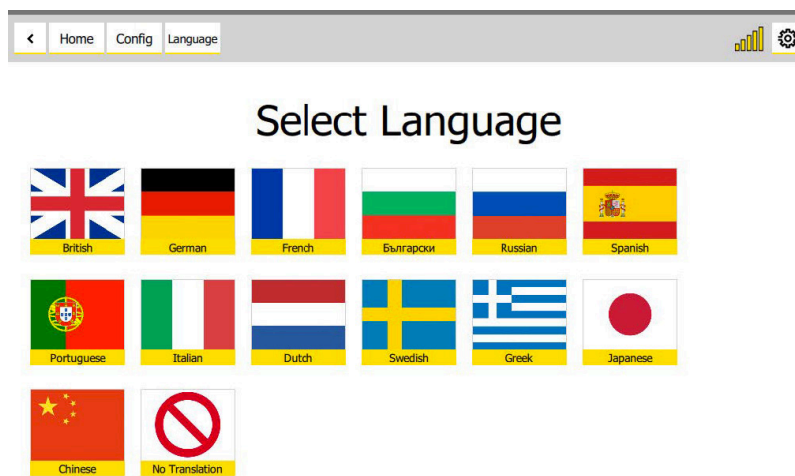
# 1. Introduction

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The Abrites diagnostics for Renault/ Dacia online is a Windows based online software developed by Abrites. It requires 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. It can be used for diagnostics of Renault/ Dacia vehicles using OBD II. The supported vehicles are the ones produced after around the year 1999 up to present day. With its help you can perform basic diagnostics, monitor live data, read diagnostic trouble codes (DTCs), Clear DTCs, etc. With its help you will also be able to perform other tasks in the future you will be able to perform module adaptation and cluster calibration and key programming .

## 2. Using the Abrites diagnostics for Renault/Dacia

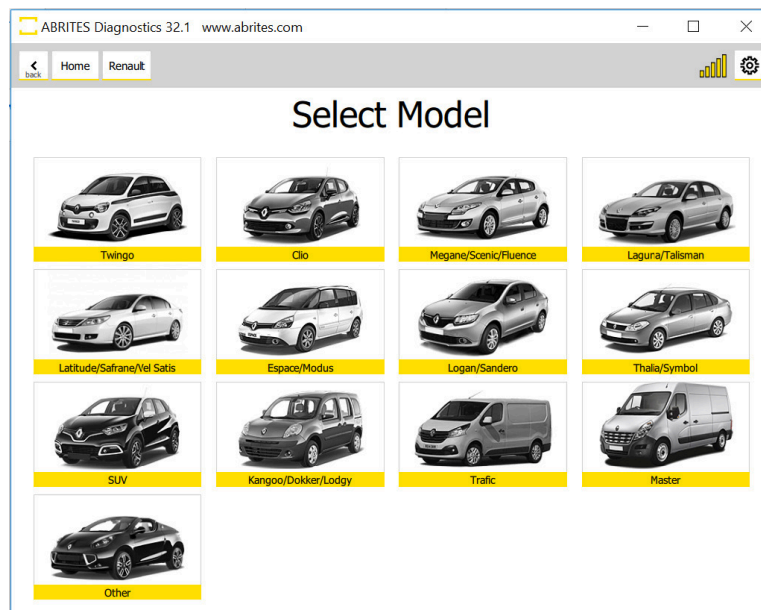
The Abrites diagnostics for Renault/ Dacia is a Windows based online application and as such it requires the computer you have installed it on to be connected to the internet. We can suggest a connection to the internet via 3G/ 4G from a mobile device as well as a WI-FI network. Please ensure to have port 8443 allowed by your internet service provider in order to ensure the correct functionality of your Abrites diagnostics for Renault/ Dacia Online. Using the icon in the top right of your software screen you will be able to see the internet connectivity and signal strength and the settings icon (sprocket) will allow you to choose a language in which the software to operate:



When you open the Abrites Quick Start you can select the Abrites diagnostics for Renault/ Dacia Icon:

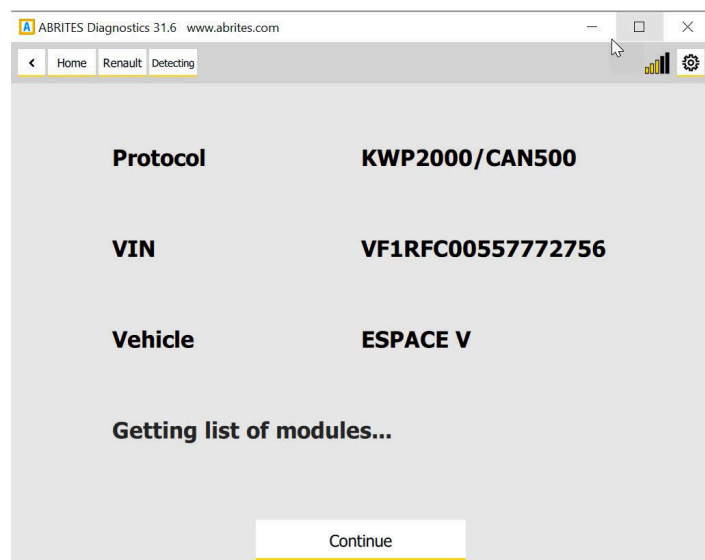


When you start the Abrates diagnostics for Renault/ Dacia Online you will be able to select the category of a vehicle you are working with. After that you can select the model you are working with.



From this point on you will have all the details of the car you are working with.

From here you will see the details of the car - the diagnostic protocols it uses, the VIN of the car, the model, and then the software will automatically go to the list of modules installed in this particular vehicle.





This is what the module list looks like:

Address	Acronym	Name	Faults
[01]	A.B.S.	A.B.S. (Family: 2)	7 faults
[02]	PS	PILOTED SUSPENSION (Family: 50)	4 faults
[04]	VP	VARIABLE P.A.S. (Family: 18)	2 faults
[0D]	PB	PARKING BRAKE (Family: 13)	7 faults
[0E]	PPC	PARKING PROX CAN (Family: 41)	7 faults
[26]	UCH	UCH (Family: 4)	15 faults
[27]	LPC	LPC (Family: 20)	5 faults
[29]	AC	AIR CONDITIONING (Family: 8)	13 faults
[2C]	AP	AIRBAG / PRETENSIONERS (Family: 5)	16 faults
[4D]	GEC	GEARBOX ELEC CONTROL (Family: 47)	
[51]	IP	INSTRUMENT PANEL (Family: 3)	3 faults
[77]	TCU	TELEMATIC CTRL UNIT (Family: 77)	
[7A]	INJECTION	INJECTION (Family: 1)	33 faults

After you see the list of modules you can enter each of them in order to do diagnostics: Read DTCs, view live data, perform actuator testing and so on. You can monitor live values in a graph form (with live graphics being displayed) or using the table view of the software to monitor as many parameters as you wish simultaneously:

Unit 7A: INJECTION [Family: 1]

Actuators	FACTORY CONTROL PART NUMBER (F187)	237108496R
Live Values	NAME OF THE COMPUTER SUPPLIER (F18A)	ROBERT BOSCH GMBH, VAT ID NO DE81128135, SUPPLIER NO 037
Fault Codes	SOFTWARE NUMBER (F194)	1708
DPF Regeneration	VOJAG NUMBER (F1A4)	81
Injectors Coding	SOFTWARE VERSION (F195)	6500
	VIN (F190)	VF8RF00557727256
	CONFIGURATION FILE REFERENCE LINK F188	237108496R
	SERIAL NUMBER OF THE ECU (F18C)	2235025701031744-458
	CYLINDER 1 INJECTOR CODE	8HZYFD
	CYLINDER 2 INJECTOR CODE	81R34ED

Values

Query	Values
DATASET	<input type="checkbox"/> CLUTCH INFORMATION UNAVAILABLE <input type="checkbox"/> CLUTCH INFORMATION ABSENT <input type="checkbox"/> BRAKE INFORMATION UNAVAILABLE <input type="checkbox"/> BRAKE INFORMATION ABSENT <input type="checkbox"/> DECELERATION WITHOUT BRAKE DEPRESSED <input type="checkbox"/> SHARP DECEL. WITHOUT BRAKE DEPRESSED <input type="checkbox"/> CC INHIBITED BY INJECTION <input type="checkbox"/> SL INHIBITED BY INJECTION <input type="checkbox"/> ACTUAL VEHICLE SPEED INFO. UNAVAILABLE <input type="checkbox"/> ACTUAL VEHICLE SPEED INFO. ABSENT <input type="checkbox"/> DISPLAYED VEHICLE SPEED INFO. ABSENT <input type="checkbox"/> CHANGE OF VEHICLE SPEED UNIT <input type="checkbox"/> WIRED BRAKE CONTACT <input type="checkbox"/> FAST IDLE SPEED FUNCTION <input type="checkbox"/> STARTER MOTOR <input type="checkbox"/> CLUTCH START OF TRAVEL SWITCH <input type="checkbox"/> CLUTCH END OF TRAVEL SWITCH

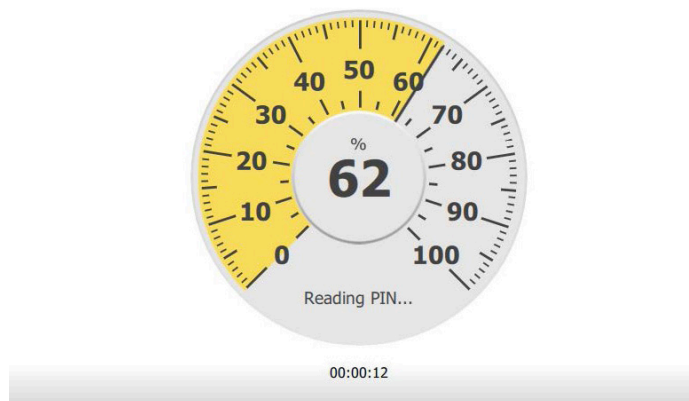
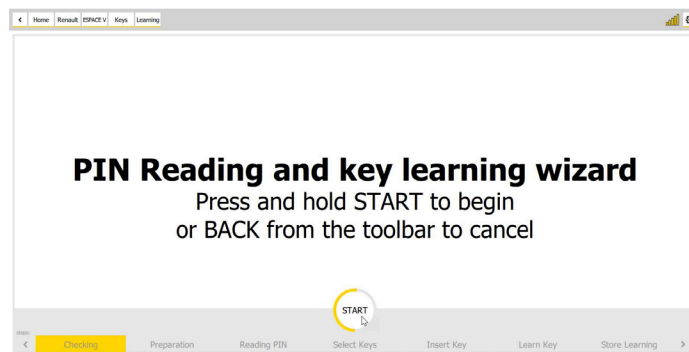
## 3. Special Functions

With the help of the Abrites diagnostics for Renault/ Dacia you can renew modules, program keys, exchange cluster calibrations and many others. Here is how to do that.

### 3.1. Key programming

With the help of the Abrites diagnostics for Renault Dacia and the PROTAG programmer key programming is a breeze.

- First make sure to go to the key programming button and read the PIN CODE from the car:



Make sure to save the pin once you read it, this is done using the right click and "COPY" function



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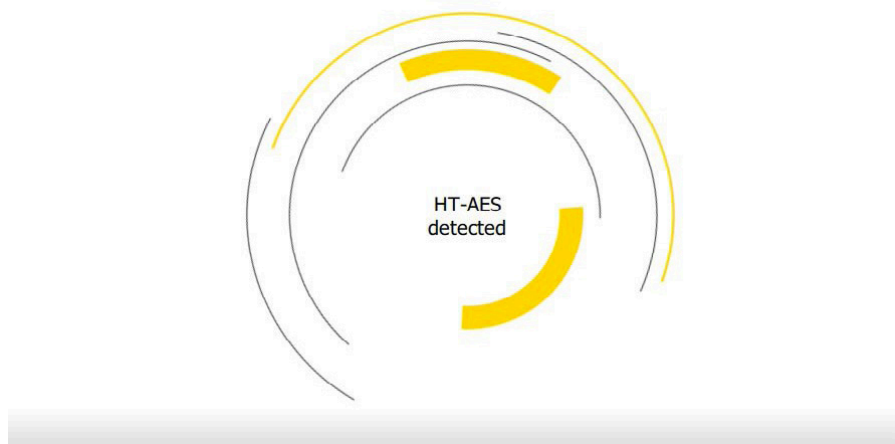
Make sure your Protag is connected in order to prepare a new card.

Please put the new key in ProTag antenna




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Please put the new key in ProTag antenna



You will be able to detect the car and see the recognition of the transponder or key type in real time.



Select number of keys to learn



For vehicles with a card make sure to have the emblem on the key card facing the start/stop button.

**Touch card 1 logo to the START button**

**Then press NEXT button to continue**



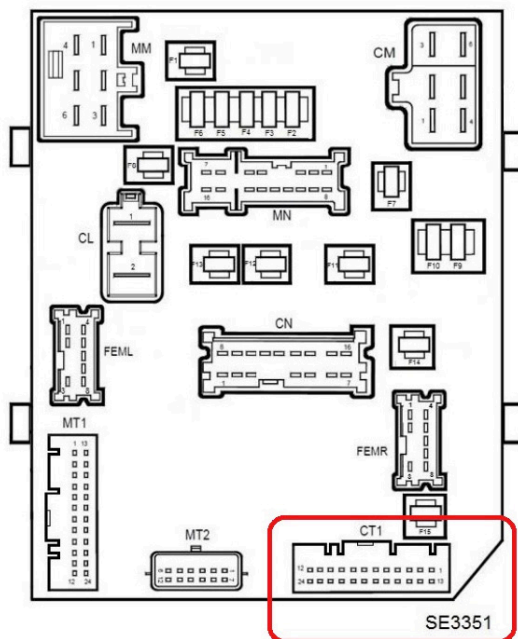
Repeat the process for the next card.

### 3.1.1 Clio V Key programming

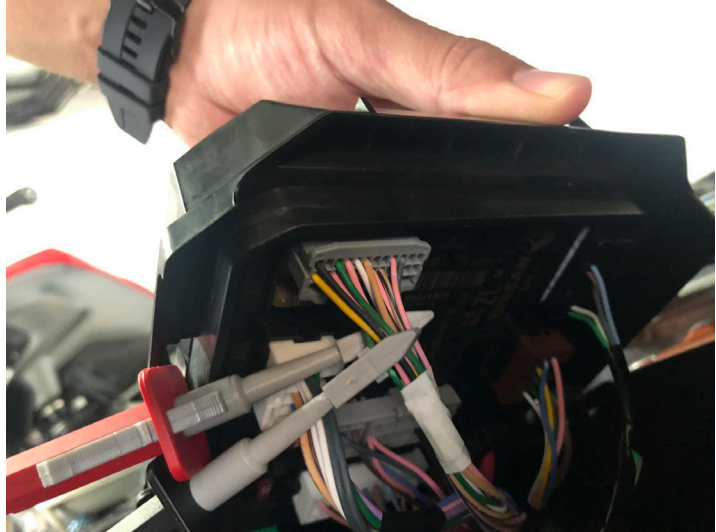
In the latest version of the Abrites diagnostics for Renault/Dacia we have added support for Renault Clio V, Renault Capture II and Renault New Zoe key programming (working key is required). The procedure is requiring a CB012 cable set (between the AVDI Interface and the CB101 OBDII cable) also in order to connect to the internal CAN-BUS system of the car.

We recommend a connection either to the Protection and Switching unit - UPC (1337) or to the Hands-free module under the glove box. Here are some photos and connection diagrams.

Protection and Switching unit - UPC (1337), connector CT1:

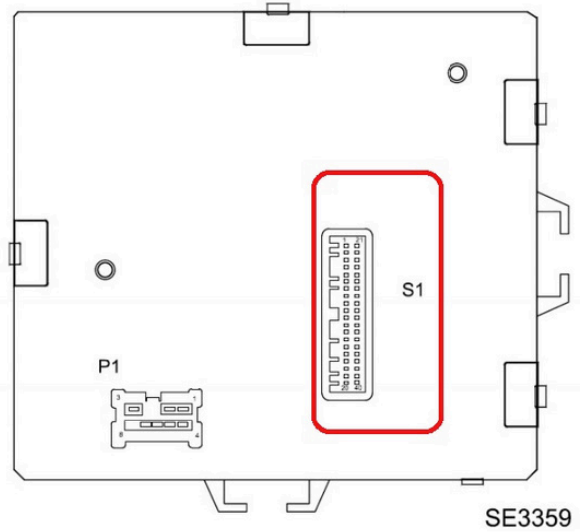


CAN H - pin 17 (white)  
 CAN L - pin 5 (green)



Hands-free access electric control unit (2003) on keyless version:

CAN H - pin 6  
 CAN L - pin 7



### 3.2. Renew - used for module replacement

Using Abrites diagnostics for Renault/ Dacia you can replace many modules. ECUs, UCH, ESLs, etc. Here is what you need to do, we will use the **UCH** for an example.

- Make sure you read the **PIN code** from the car and copy it as we have discussed above.

PIN found

4BFD314E96A020BA53A15E060226C2E3

Go to “Live values and confirm that the module (in this case UCH) is virgin or not. If it is virgin - you can adapt it. If it is not virgin you can renew it. Blank body computer says NO, meaning that the UCH needs to be renewed:

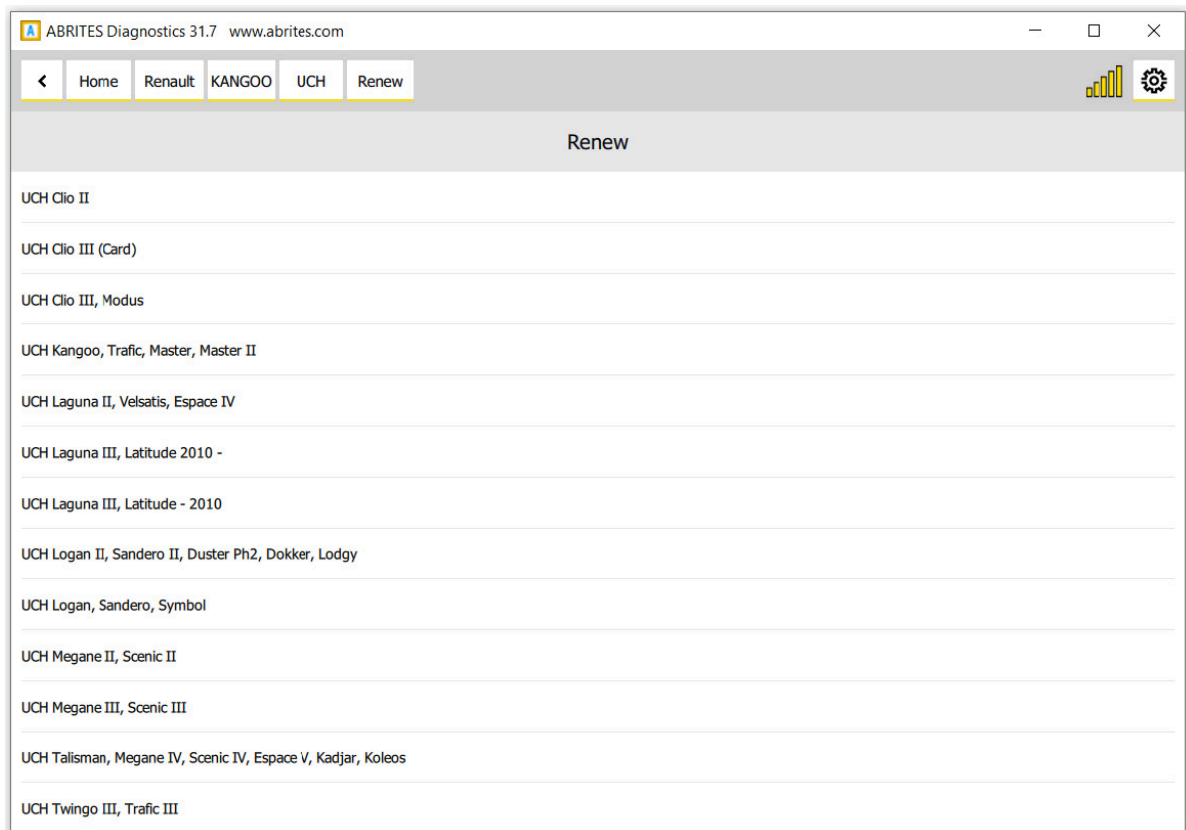
The screenshot displays the software interface for Renault/Dacia diagnostics. The top navigation bar includes 'Home', 'Renault', 'ESPACE V', 'UCH', 'Values', and 'Query Values'. The 'Values' screen shows a table of diagnostic parameters:

Parameter	Value
BLANK BODY COMPUTER	NO
BLANK CARD	NO
CARD ALLOCATED TO THE VEHICLE	NO
CENTRAL DOOR LOCKING BUTTON	RELEASED

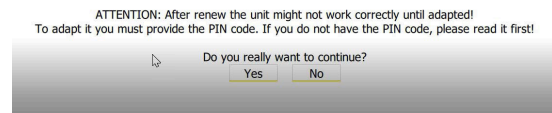
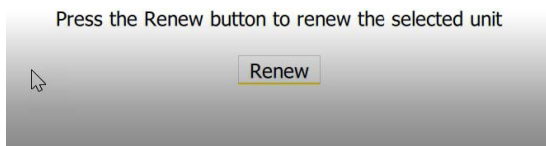
Below the 'Values' screen is the 'Renew' screen, which lists various UCH (User Control Hub) models for selection:

- UCH Clio II
- UCH Clio III (Card)
- UCH Clio III, Modus
- UCH Kangoo, Traffic, Master, Master II
- UCH Laguna II, Velostis, Espace IV
- UCH Laguna III, Latitude 2010 -
- UCH Laguna III, Latitude - 2010
- UCH Logan II, Sandero II, Duster Ph2, Dokker, Lodgy
- UCH Logan, Sandero, Symbol
- UCH Megane II, Scenic II
- UCH Megane III, Scenic III
- UCH Trafalman, Megane IV, Scenic IV, Espace V, Kadjar, Koleos

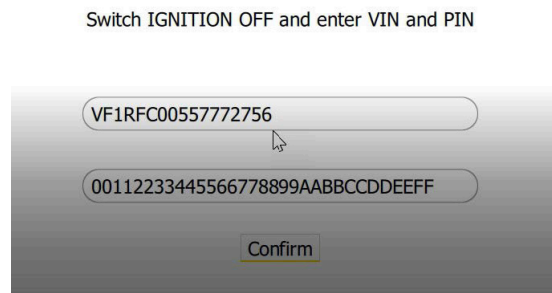
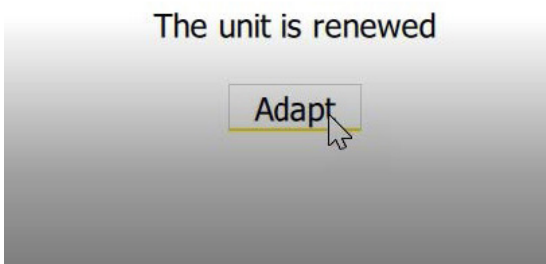
From the Renew menu we can select the UCH type and move forward:







Make sure you have the PIN and VIN



Once you confirm the needed values the UCH is adapted. **The procedure is the same for ECUs.**

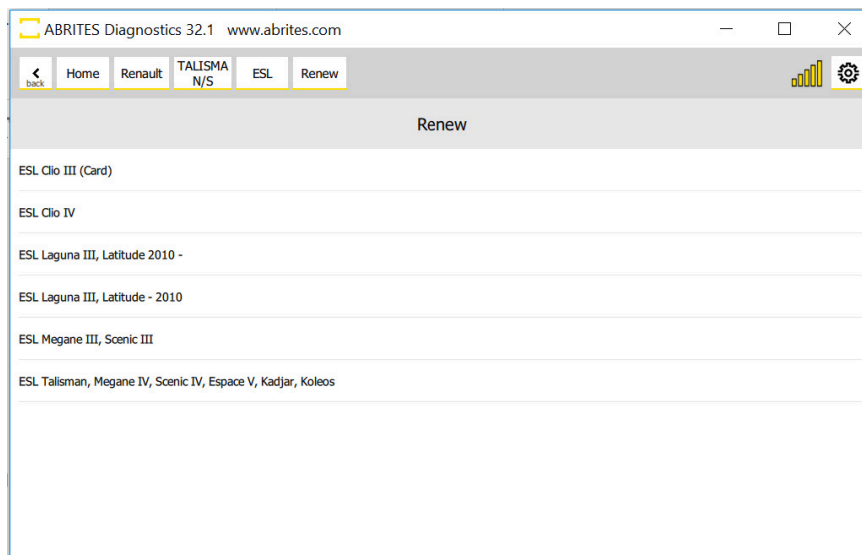
## ESL adaptation

The ESL adaptation procedure is done from the “Renew” special function.

It is not possible to renew the ESL via OBDII, you have to open it and erase the 24C04 EEPROM and then start the adaptation procedure.

- The models after 2008/2009 require the PIN code for the adaptation. Once the ESL's EEPROM is erased you can select Renew > ESL > model > click “Adapt”.

Here is a list of the supported ESLs for adaptation:

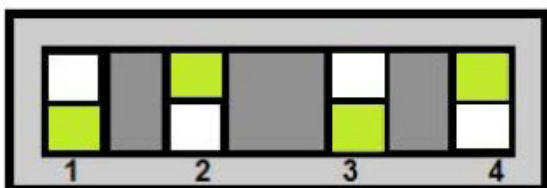


You could always use our EM002 ESL plug&play emulator for Renault/Nissan instead. It supports all ESLs for all Renault/Nissan models.



The Abrates **EM002 emulator for Renault/Nissan** supports all ESL types (old 6 pins(Renault) , new 6 pins(Renault), 8 pins(Nissan)).

#### OLD type ESL diagram(Renault):



Connection to old ESL :

- 1 - BLACK (-)
- 2 - RED(+)
- 3 - GREEN (CAN H)
- 4, 5 - NOT USED
- 6 - BLUE (CAN L)

#### NEW type ESL diagram(Renault):



Connection to new ESL :

- 1 - BLACK (-)
- 2 - RED(+)
- 3 - GREEN (CAN H)
- 4 - Connect pin 4 of the ESL to pin 2 of the ESL through 100 Ohm resistor.
- 5 - NOT USED
- 6 - BLUE (CAN L)

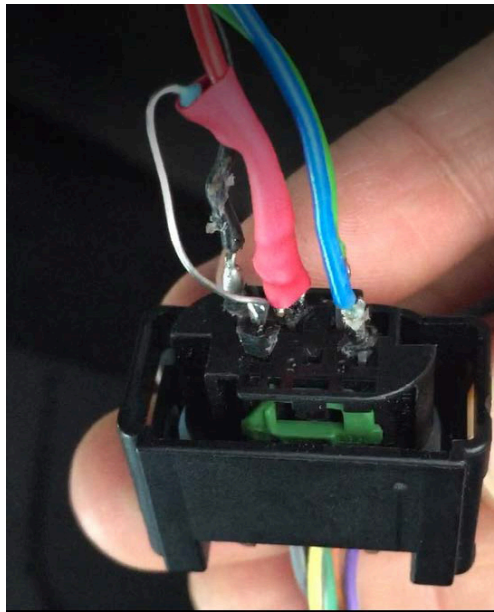
#### 8 pins ESL diagram(Nissan):



Connection to new ESL :

- 1 - BLACK (-)
- 2 - RED(+)
- 3 - GREEN (CAN H)
- 4, 5, 7 - NOT USED
- 6 - Connect pin 6 of the ESL to pin 2 of the ESL through 100 Ohm resistor.
- 8 - BLUE (CAN L)

Example new type ESL diagram(Renault):



Note:



The green square represents the position of the toggle switch

\*The white wire is used to update the emulator but at the moment there are no updates available.

The Abrates **EM010 and EM011 emulators for Renault/Nissan** allow customers to simply remove the connector from the faulty ESL and plug it in to the emulator. Plug-and-play solution, no software required.

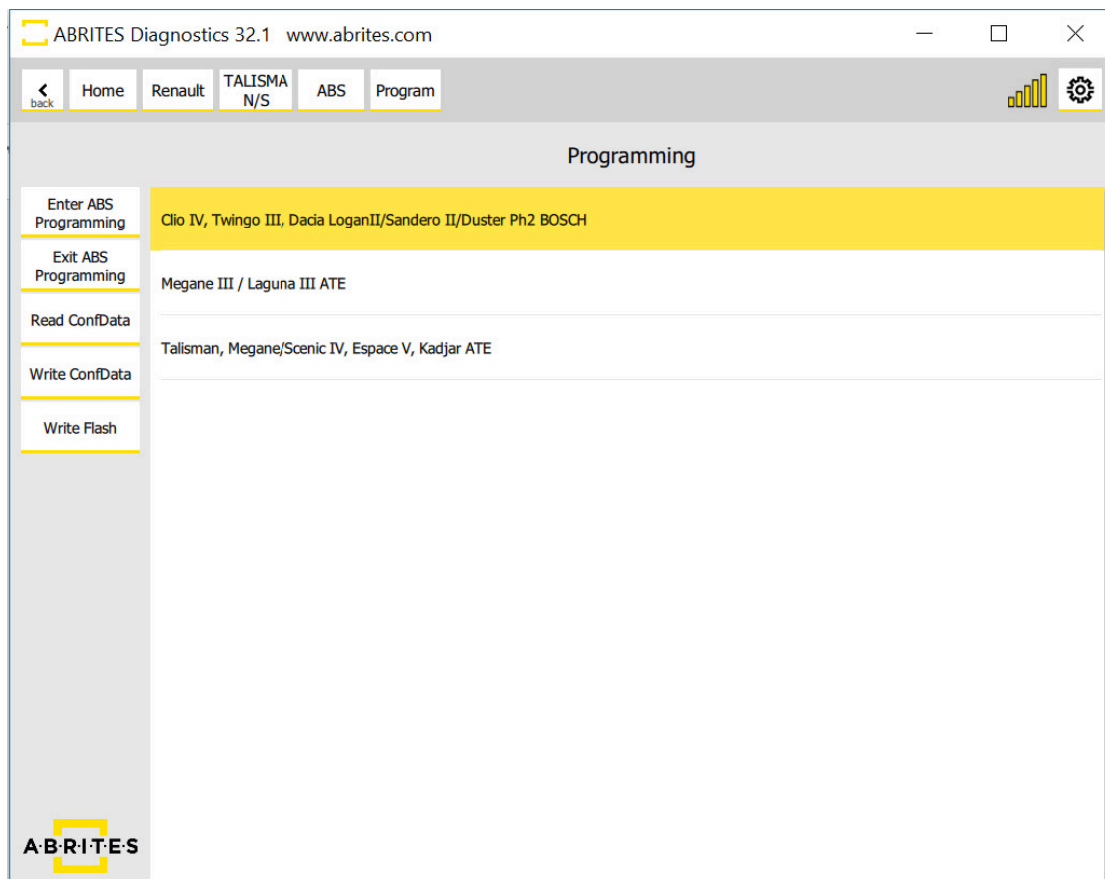


## 4. Programming

This special function allows you to read and write the the Flash and/or the ConfData of different modules such as ABS, Instrument panel, Hands Free unit, UCH.

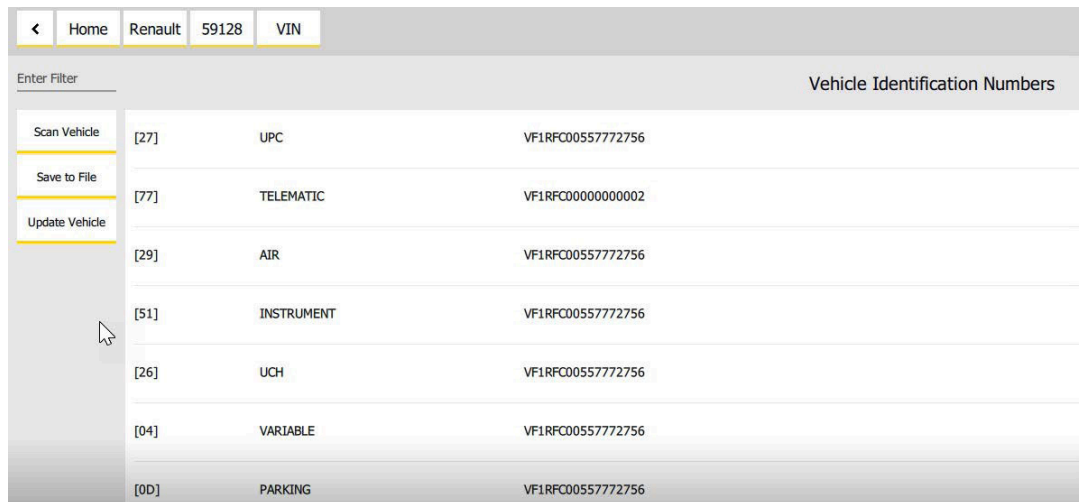
It is used for restoring modules and direct exchange of modules by transferring the EEPROM (and FLASH for Instrument panel for example) from the original unit to the other one.

**RESTORING OF UNITS:** Whenever the software reads the UCH's flash for example a copy of the Flash is saved in the folder containing the log files of your Interface. Should the re-flashing procedure fail you can always use that file to restore the unit.

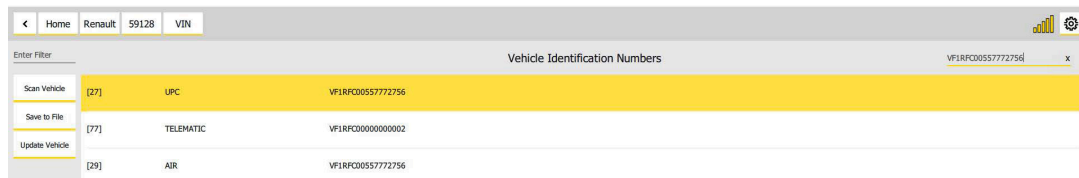


## 4.1. VIN exchange

In some cases you may need to update the VIN number in some modules. When you open the list of VINs you will be able to select the VIN and enter a new value to match to the car. Then simply save the changes and you are done.



Enter Filter			Vehicle Identification Numbers
Scan Vehicle	[27]	UPC	VF1RFC00557772756
Save to File	[77]	TELEMATIC	VF1RFC00000000002
Update Vehicle	[29]	AIR	VF1RFC00557772756
	[51]	INSTRUMENT	VF1RFC00557772756
	[26]	UCH	VF1RFC00557772756
	[04]	VARIABLE	VF1RFC00557772756
	[0D]	PARKING	VF1RFC00557772756



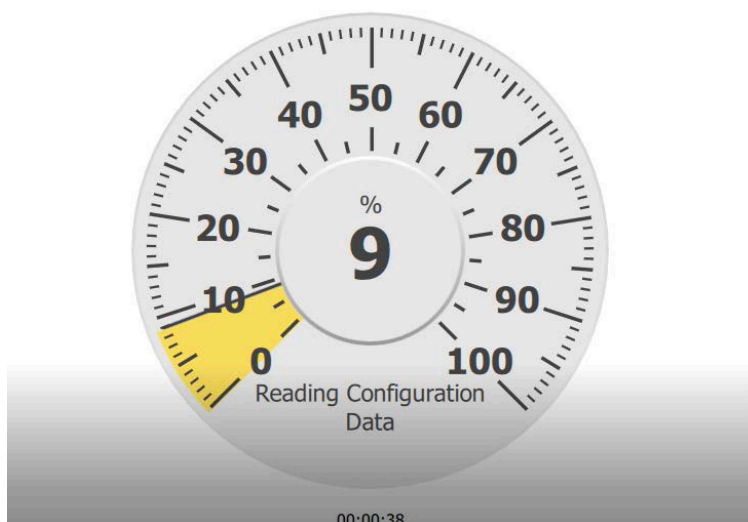
Enter Filter			Vehicle Identification Numbers	VF1RFC00557772756 x
Scan Vehicle	[27]	UPC	VF1RFC00557772756	
Save to File	[77]	TELEMATIC	VF1RFC00000000002	
Update Vehicle	[29]	AIR	VF1RFC00557772756	

## 4.2. Other module exchange types. ABS etc.

There is a different adaptation method for these modules. The procedures are mostly intuitive but you need to follow these guidelines:

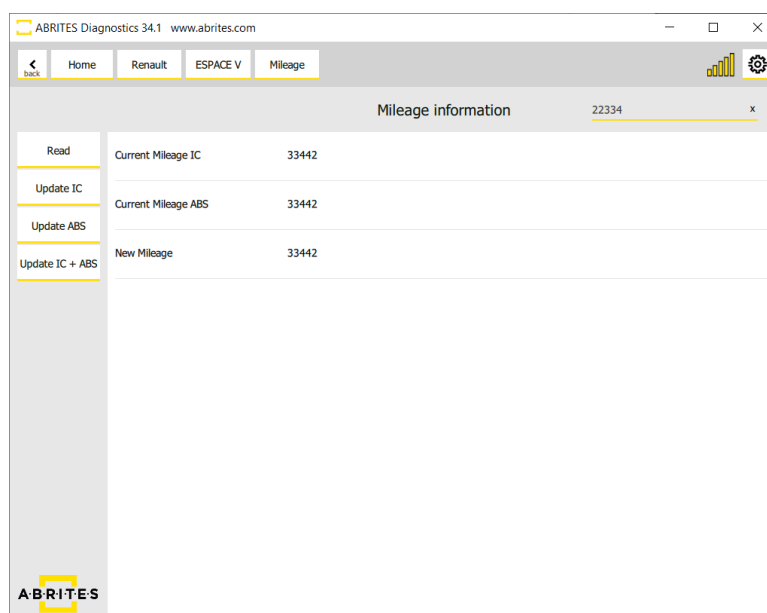
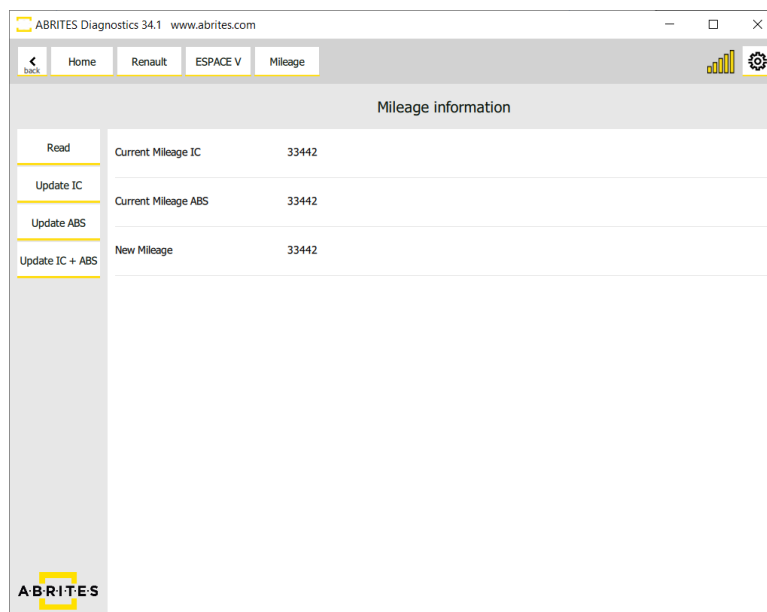


Select the ABS type, read the Conf Data (EEPROM), save it to a file and replace it to the donor ABS



## 5. "Mileage" Special Function

Renault software is very powerful tool for mileage calibration, dashboard replacement and ABS/ESC replacement. The software is very easy to use and user-friendly. Procedure is executed through the "Mileage" special function and requires OBDII connection. Once the special function is open, you can read the mileage in the Instrument Cluster and the ABS module, and you can update the values in one of the units, or what is more useful - in both modules simultaneously. When you click on the "New Mileage" section, you will see a window at the top right corner appear, this is where you can type the new value, press enter and then press "update".





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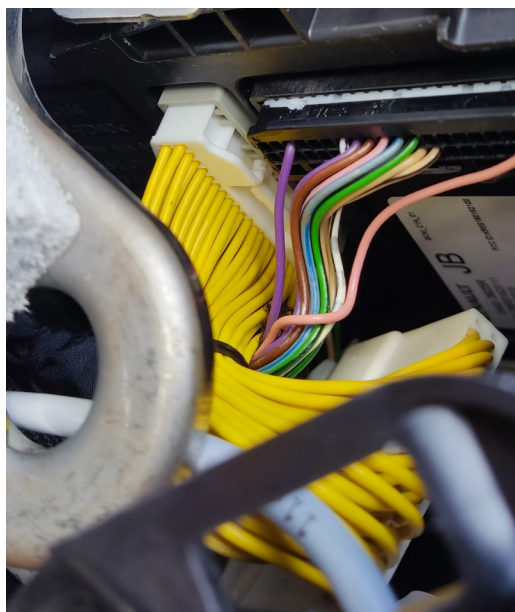
## 5.1 Clio V Mileage

Abrites software for Renault now supports mileage correction to Clio V and other models based on the same platform - Capture II and New Zoe. The procedure for these models requires OBDII connection, and direct connection to the BSI (UCH) unit using CB012 or CB021 (preferable) cable, and it is executed in the vehicle. The BSI (UCH) connector has to be removed, you can then connect the one side of the CB021 to this connector, and the other side of the CB021 to the BSI (UCH) socket. Pictures with connection examples from New Zoe, where the unit is located above the pedals can be seen below.



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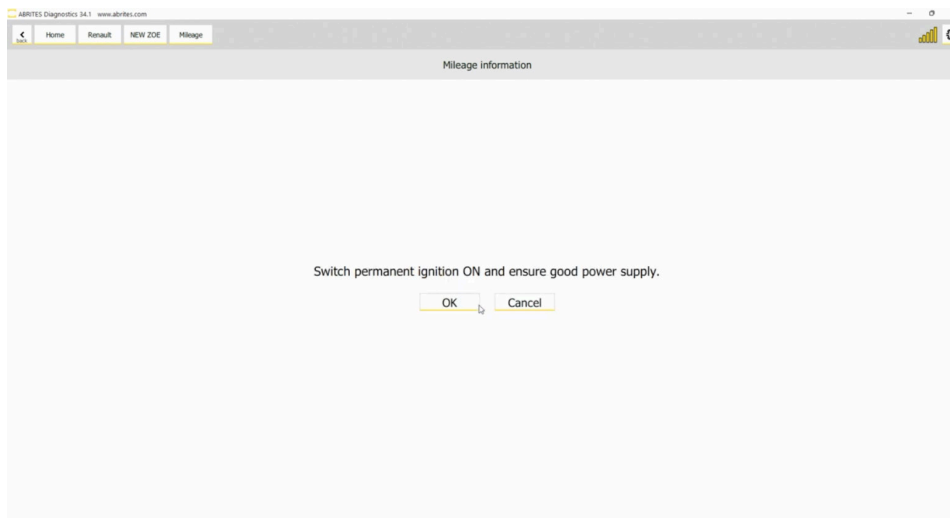
Below you may find picture with connections in Clio V, where the BSI (UCH) unit is located on the left hand side of the dashboard by the steering wheel.



The only exception when you need to work by dump is when working with Analogue Cluster with mechanical dials

This platform of vehicles have 3 types of Instrument Clusters:

1. Analog dashboard - it is done by dump. You need to use ZN057 and the Abprog programmer.
  2. Visteon Low Line - it is done via OBDII
  3. High Line HD - it is done via OBDII, but the procedure re-flashes the unit.
- when doing the procedure to such a vehicle, you need to make sure you provide power supply to the vehicle. This procedure takes a few minutes longer.
  - in this situation, the software would also suggest that you turn “permanent ignition on” - you could do that by switching the gears to N position, and holding the start button for 5 seconds - see image below.



## 6. Other special functions

With the help of Abrites diagnostics for Renault/ Dacia you can perform many other functions. Here are just some of them:

- DPF regeneration

Please make sure that the conditions are correct.

- Injector calibration

Enter Injectors Values

8HZYFID

81R3AED

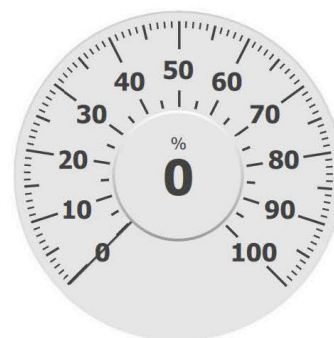
AIAEDEE

B1BUFAD

Update

This procedure can be paused by two short presses of the START-STOP button.  
To stop the procedure, turn IGNITION OFF for at least 1 minute.  
During the procedure do NOT:  
- Stop the ABRITES Diagnostics  
- Drive the vehicle  
- Press the brake pedal  
The operation takes 30 minutes.

Start



## Airbag clear crash data via OBDII

The procedure is done from the “Renew” special function via OBDII followed by the “Clear crash” option. Here is a list of all supported units:

