Abritus 72 Ltd.

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ABRITES Renault Commander

User Manual

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1 INTRODUCTION

"Abrites Renault Commander" is a Windows PC based diagnostic software for the Renault vehicles. With this tool you're able to learn new key/cards to the car without need of PIN code. The "Abrites Renault Commander" also provides basic diagnostic capabilities for Renault vehicles.

2 INSTALLATION

Your set consists of one interface (USB to OBDII). Optionally you might have a programmer which is connected either to the USB port of the PC, or to the interface (USB to OBDII).

2.1 Installing USB Interface drivers

The drivers are installed automatically when installing the software. In case of some problem with the drivers you might download latest drivers from <u>www.ftdichip.com</u>

2.2 Installing "ABRITES Renault Commander"

The "ABRITES Renault Commander" is contained into the installation package, so please run the setup program. It will create a program group in the start menu and optionally a desktop icon.

Now you are ready to start the "ABRITES Renault Commander"

When starting the software, there is a splash screen appeared, where the connection with the hardware is examined. If no problem appear, then a message "Connection OK" should appear!

The main screen looks like this:

Abrite	s Commander for RENAULT 2.0 www.abritus72.com			_ 🗆 🗙
#	Unit name	Protocol	DTC 🔺	
01	ABS - VDC (\$01)			
02	Suspention pilotee - ESUS (\$02)			Previous
03	VSU (\$03)			
04	EPS (\$04)			
05	HLS - High Beam Lighting System (\$07)			
06	TPMS (Tyre Pressure Monitoring System) (\$08)			1
07	Acc (\$0B)			
08	APB - Automatic Parking Brake (\$0D)			
09	Parking Sonar (\$OE)			Connect
10	HFCK - Hand Free Car Kit (\$0F)			
11	Audio (\$13)			
12	Additional Heater - heat controller (\$1A)			
13	TCU (\$1C)			
14	4WS - 4 Wheels Steering (\$23)			
15	ASCD (\$25)			
16	UCH - BCM (\$26)			
17	UPC - USM (\$27)		-	Next
%	Key Learning 🛛 💖 Special Functions 🛛 🥓 Options 🛛			
C	hoose model:			
		•		
	Megane II X84 2003-2006	_		
	Megane II Ph2 X84 2007+		Open	
	SCENIC II X64 ZUU3+ Scenic II D62 X64 2007+			
	Stemen II X61 2008+			
	Renault Samsung SM3 2006+			
,	A 200			

ATTENTION:

Make sure you are running the "ABRITES Renault Commander" from its folder. If you are using a shortcut to the "ABRITES Renault Commander", please be sure that the "working folder" parameter is set to the folder where the executable is placed! If the "working folder" of the shortcut is not set the K-Line may function incorrectly.

3 DIAGNOSTIC WITH "ABRITES RENAULT COMMANDER"

The "ABRITES Renault Commander" consists basically of two parts:

- Standard diagnostic functions like device identification and reading/clearing trouble codes.
- Key-learning
- Special functions like dump tool, PIN Calculator, etc.

All devices, which can be installed into the car are listed in the main screen of the "ABRITES Renault Commander". If you want to connect to some device please double click on it. The "ABRITES Renault Commander" supports communication through CAN and K-Line with fast init.

3.1 Standard diagnostic requests

When double-clicking on the desired device in the main "ABRITES Renault Commander" window, you connect to the device to proceed standard diagnostic requests. The following dialog is opened:

UCH - BCM

							k-i	Line:KWP2000	
Establishin Diagnostic	g diagr channel	nostic sess . is open.	ion with sel	ected unit .	517				
Device iden	tificat	ion							
Part No	Diag Ver	Supplier Code	Hardware No	Software No	Software Ver	Calibration Ver	Reserved	Car Identif.	
 8200814465 8200823728	0C 14	021 037	2812128804 8200666516	0006 00C4	0007 940C	000A 0000	0431D5 000000	59 00	Clear lo
IN: VFIFLB	UDC8Y28	34398							
									Write Ic
									Write Ic
									Write Io
									Write Io
-Diagnostic rec	uests —								vvirite lo
-Diagnostic reg	uests —		Pead DTCs	Read M	emory			A B R	
-Diagnostic req Identifi	uests —	F	Read DTCs	Read M	emory			A B R	
-Diagnostic req Identifi	uests		Read DTCs	Read M	emory				Vivite lo

This dialog provides you the possibility to execute the following diagnostic requests:

3.1.1 Identification

"Identification" will provide you the device identification and VIN number if present.

							k-I	Line:KWP2000	
Establishir Diagnostic	ng diagr channel	nostic sess L is open.	ion with sele	ected unit .	5 .			1	
Device ider	ntificat	ion							
Part No	Diag Ver	Supplier Code	Hardware No	Software No	Software Ver	Calibration Ver	Reserved	Car Identif.	
3200814465 8200823728	0C 14	021 037	2812128804 8200666516	0006 00C4	0007 940C	000A 0000	0431D5 000000	59 00	Clear log
IN: VF1FLE	SUDC8Y28	34398							
									Write Id
									Write Ic
									Write Io
									Write Io
Diagnostic rec	uests —								
Diagnostic rec	uests —	R	ead DTCs	Read Me	emory				
Diagnostic rec	uests	R	ead DTCs	Read Me	emory			A B R automotiv	Vvrite to

3.1.2 Read History information

Pressing the "History" button will read the re-flashing information for the selected device

									K-Line:K	WP2000
Part No	Diag Ver	Suppli Code	ier Hard No	ware	Soft No	ware Soft Ver	ware Cali Ver	bration Res	erved Car Ide	ntif.
8200814465 8200823728 VIN: VF1FLE	0C 14 BUDC8Y2	021 037 84398	2812 8200	128804 666516	0006 00C4	0007 940C	A000 0000	043 000	31D5 59 0000 00	
Device app Rec Part No No	licatio	n inform Diag S Ver C	⊥ation: Supplier Code	Hardwar No	e	Software No	Software Ver	Calibration Ver	Reserved	l Car Ident:
N 820083 N-1 820082 0 820082	34057 23728 23728	14 0 14 0 14 0)37)37)37)37	8200666 8200666 8200666	516 516 516	00C4 00C4 00C4	940C 940C 940C 940C	2C10 0000 0000	000000 000000 000000	00 00 00
Device rep Rec Approv No No	rogramm val	ing info Progr Site	ormation: :. Pr To	ogr. ol	ND	Progr. Date yy/mm/dd	Res	Mark	CRC	
Device rep Rec Approv No No 	rogramm val AD126 00000	ing info Progr Site OD9 (FB658) , Pr To , 00 } RB	ogr. ol 000 CCS	ND 00 00	Progr. Date yy/mm/dd 00/CF/B9 08/03/30	Res A5C9 1252	Mark 29 5C	CRC 7608 B19F	
Device rep Rec Approv No No N 0246DJ N-1 000000 0 000000	rogramm val AD126 00000 00000	ing info Progn Site OWS (FB658 FB658	ormation: r. Pr To) 00 3 PB) PB	ogr. ol 000 CCS CCS	ND 00 00 00	Progr. Date yy/mm/dd 00/CF/B9 08/03/30 08/03/30	Res A5C9 1252 1252	Mark 29 5C 5C	CRC 7608 B19F B19F	×
Device rep Rec Approv No No 	rogramm val AD126 00000 00000 quests — ication	ing info Progn Site OBOS (FB658 FB658	rmation: r. Pr To 0 00 3 RB 3 RB Read DT(ogr. ol ccs ccs	ND- 00 00	Progr. Date yy/mm/dd 00/CF/B9 08/03/30 08/03/30 Read Memory	Res A5C9 1252 1252	Mark 29 50 50	CRC 7608 B19F B19F	A B R automotiv

3.1.3 Read Diagnostic Trouble Codes

"Read DTCs" read the diagnostic trouble codes currently stored into the device



The total number of DTCs being set is also reported.

Please pay attention that for some trouble codes more than one description might be reported. This is so because on the different devices the DTC code might have different meanings. Also on different models there are also a lot of different devices where this DTC might appear. **So if you receive too many descriptions for some DTC please specify the first the car model before you connect to the desired model!**

3.1.4 Clear Diagnostic Trouble Codes

"Clear DTCs" clears the diagnostic trouble codes.

3.1.5 Read Memory

"Read Memory" allows to read/write the device memory. There are three memory types which can be read/write – EEPROM, RAM and Flash. The user has to put manually the address space where the desired memory is mapped.

NOTE: This function is applicable only for devices which don't have memory protection.



3.2 Key Learning

There is function for auto-detection of the vehichle model. Nevertheless if you don't succeed to learn the key using the auto-detection, please try to make it by selection the model manually.

8	Key Learning	-	Vehicle Se	election 🕅	💝 Special Functions 🛛 🥓 Options 🗎
	Chasse medali				
, i	choose model.				
	AUTODET	ECT	CAR	TYPE	•
	AUTODET	TI CIT		TADE	
	AUTODET	ECI	CAR	TYPE	▲
	Megane	II		X84	2003-2006
	Megane	II	Ph2	X84	2007+
	\mathbf{Scenic}	II		X64	2003+
	scenic	II	Ph2	X64	2007+
	Kango I	Ι		X61	2008+
	Samsung	\mathbf{S}	ß		2006+
	Fluence	<u>.</u>			2009+
	Laguna	II		X56	2000-2005
	Laguna	II	Ph2	x74	2005-2007
	Valsati	s		X73	2002+

When this function is opened, the "ABRITES Renault Commander" opens the following dialog:

Key Learning		×
Key ID 46DAD126 12DEFD20	Key type Key with RF Key with RF	Start
		Stop
		Learn
4	Þ	Preapare PCF7936 transponder
		E xit

When you press the "Start" button then application connects to the immobilizer and reads the keys which are currently accepted from the car. If you want to learn a key/card, then you need to press the "Learn" button and you've to specify how many keys/cards you want to learn.

OK
Cancel

After that you should follow the instructions.

Normally the procedure goes in that way:

- When pressing the start button the application is connecting to the immobilizer and displaying the present keys/cards. In most cases it is not required that the car is on ignition, for some cars the immobilizer is awake directly from the diagnostic. But on some cars it may happened that the ignition is given when connecting to the device.
- 2. After pressing the "Learn" button and specifying the number of keys you will be invited to remove the key/card from the ignition. Please be sure that the key/cards is really removed after this. Otherwise immobilizer will reject the key-learning procedure.
- After that you will be invited to insert each next key/card and give the ignition ON. For each key there are several seconds required until the immobilizer recognize the key/card.
 NOTE: For Clio III, Modus and Traffic III the keys are put into the programmer, not into the ignition. When putting the key into the programmer please be sure that it is correct placed as showed on the pictures below:



- 4. Step "3" is repeated for each key you want to learn.
- 5. After inserting all keys which have to be learned you will be asked whether you want to store the result or to reject the whole procedure (use-full if you made some mistake during the key-learning procedure like forgot to put some key).

If you don't have an original key for the model, you can use PCF7936 transponder to make a key for the car. Please note that PCF7936 might be used only on cars with key, not on cars with cards! Also if you learn PCF7936 transponder there will be no remote control for that key! So if you want to use such PCF7936 transponder, you should connect your programmer, put a factory new transponder inside and press the "Prepare PCF7936 transponder".

Troubleshooting: Two possible error messages may appear when trying to learn a new key/card:

Error "\$E001" - this error means that the immobilizer is not ready to perform the key-learning procedure. Typical reason for this message is when you try to make the procedure while the engine is started. Another reason for that message may be that the card is not removed from the ignition lock when you're invited to do this. Another reason for this message is when an

invalid security code was entered previously into the immobilizer – after such operation the immobilizer is blocked for a log time and you've to wait until it is unblocked.

On some cars (typically Scenic and Megane) this error may appear by some other reason. You can try to perform the key-learning procedure as described above but without giving on ignition during step "1" - try the following sequence: close the doors of the car and if possible lock the car, then open the door and go to the key-learning procedure. Press "Start" button but WITHOUT GIVING ON IGNITION before that. After that you can continue with step "2" of the procedure described above. If this also doesn't help you can try to leave the card in the ignition lock during step "2".

 Error "\$E002" - the key-learning procedure is accepted from the immobilizer, but the some of the cards which you tried to learn were invalid. This can typically happen when you try to learn a car from one model to another. This error may also appear if you've selected wrong model – e.g. you've "Laguna II" but you've selected "Laguna II Phase 2"

NOTE: When you're trying to program a key to e.g. Laguna II Ph2, it is possible that you got an error. Please try the Laguna II type then – there is no risk to damage the immobilizer. The reason for this is that some cars in the greater phase are equipped with older immobilizer. This may apply also to Espace IV Ph2 and Velsatis Ph2.

3.3 Special functions

The following special functions are available:

3.3.1 "Dump Tool"

The dump tool give to the user the ability to make modification in the dump files of different devices (e.g. airbags). But you will need to read EEPROM/flash with a programmer, and after modifications in the dump tool the resulting file has to be write back to the EEPROM/flash with a programmer.

3.3.2 "Change ID"

Calling this function will bring you a dialog, where all devices for the selected model are available.

Change ID		×
Unit name:	UCH - BCM	Read
ID:	VF1FLBUDC8Y284398	
		Write
Done.		Exit

For each device you can try to read and change the Vehicle Identification Number. When changing this number there is also a checksum which is calculated automatically. Please note that in the most of the device there will be no such number present.

3.3.3 "Odometer Clio/Kangoo/Meganne HC908 JAEGER"

This will change the odometer with vehicles with this type of instrument.

3.3.4 "PIN Calculator"

This is a calculator which can evaluate the immobilizer security code from the vehicle model and the code written on the key itself (when you open the key). This calculator is used for cars with 4 digit PIN till 2001 year.



3.3.5 "Clio PIN by dump"

This is a calculator for getting the Clio PIN code from the immobilizer dump. After starting this special function you will need to select the EEPROM dump file and after that you will get the security (PIN) code.

		Direction	n ma		
#	Unit name	Protocol	DIC	<u> </u>	
01	ABS - VDC (\$01)				Previous
02	Suspention pilotee - ESUS (\$U2)				Freedous
03	VSU (\$U3)				
04	Direction assistee - Electric Power Steering (\$04)	1		-	
05	HLS - High Beam Lighting System (\$07)				
06	TPMS (Tyre Pressure Monitoring System) (\$08)				
07	Acc (\$OB)				TAN
08	APB - Automatic Parking Brake (\$OD)				
09	Parking Sonar (\$OE)				Connect
10	HFCK - Hand Free Car Kit (\$OF)				
11	Audio (\$13) RenaultTester	×			
12	Additional Heater - heat contro				
13	TCU (\$1C) PIN code is: A723D6A	8281C			
14	4WS - 4 Wheels Steering (\$23)		0		1
15	ASCD (\$25) OK				
16	UCH - BCM (\$26)	N:ISO TP			
17	UPC - USM (\$27)			-	Next
1	Key Learning 🛛 👞 Vehicle Selection 🛛 💝 Special Functions 🗍 🎤 Options 🕽				
0.2			24 T		
0	Oump Tool Change ID Odometer PIN Calculator Clip PIN by		97 6		
	Llio/Kango dump				
				Open	
			19	000000000	
-					

4 TROUBLESHOOTING

Below you can find a list of typical problems and how to solve them:

Problem: When starting the "ABRITES Renault Commander" on the splash screen "Interface NOT found" is displayed

Solution:

- Please be sure that the USB interface drivers are installed properly. You can look at the device manager, the USB interface should appear as "USB Serial Port (COMxx)" where "xx" is the number of the port
- If the interface is recognized OK, then please try to unplug and plug it again into the USB slot and restart the "ABRITES Renault Commander".
- If the problem is still present, please report about the problem to Abritus72 Ltd.

Problem: When starting the "ABRITES Renault Commander" a message "Error code: 0x10001. Please contact 'support@abritus72.com' with the Error code in the subject" **Solution:**

- Please report about the problem to Abritus72 Ltd.

Problem: When starting the "ABRITES Renault Commander" a message "Error code: 0x10002. Please contact 'support@abritus72.com' with the Error code in the subject" **Solution:**

Probably the dongle is not inserted into the USB slot or it is not recognized in the device manager. You can check in the device manager whether it is recognized. It should appear as "HID-compliant device" in the "Human Interface Devices" section.

Problem: When starting the "ABRITES Renault Commander" a message "Error code: 0x10003. Please contact 'support@abritus72.com' with the Error code in the subject"

Solution:

Probably SW dedicated for other interface was run on your interface. Please report about the problem to Abritus72 Ltd.

Problem: When starting the "ABRITES Renault Commander" a message "Error code: 0x10004. Please contact 'support@abritus72.com' with the Error code in the subject" **Solution:**

Please report about the problem to Abritus72 Ltd.

Problem: Error is occurred when trying to program a key to "Renault Laguna II Ph2" (or Espace IV Ph2, Velsatis Ph2)

Solution: Please use "Laguna II" (respectively Espace IV or Velsatis)

5 APPENDIX

Megane II X84 2003-2006
Megane II Ph2 X84 2007+
Scenic II X64 2003+

5.1 Supported models for key-learning

Scenic II Ph2 X64 2007+
Modus
Clio III
Traffic III
Laguna II X56 2000-2005
Laguna II Ph2 X74 2005-2007
Valsatis X73 2002+
Valsatis Ph2 X73 2006+

Espace IV X81 2003-2006
Espace IV Ph2 X81 2006+
Master Ph2 X70 2002-2006
Master Ph3 X70 2007+
Traffic II X83 2002-2006
Traffic II Ph2 X83 2007+
Kangoo MUX Ph2 X76 2002-2007
Clio II Ph2/3 X65 2002-2006

Logan X90 2004-2008
Logan Ph2 X90 2008+
Sandero B90 2008+
Solenza 2003-2005
Twingo Ph2 X06 2002-2007
Opel Vivaro 2002-2006 Opel Vivaro Ph2 2007+
Opel Movano Ph2 2002-2006 Opel Movano Ph3 2007+