

ABRITES DIAGNOSTICS FOR RENAULT/ DACIA





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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, such as:

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

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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 <u>support@abrites.com</u>.**

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List of revisions

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1. Introduction

The "Abrites Diagnostics for Renault/Dacia" is a personal electronic device and online server based diagnostic software for Renault/Dacia vehicles. With the help of this software you can perform complete diagnostic operations of all vehicles produced by the brand. For proper operation of your diagnostic software you will need a corresponding interface for connection between your PC and vehicle named "AVDI". The usage of the software requires the device it is installed on (i.e. personal computer) to be connected to the Internet. AVDI is an interface produced by Abrites Ltd. intended to act as an interface between the PC and the electronic control units within the vehicles.

Your AVDI should be used with ABRITES software produced by Abrites Ltd. ABRITES is a trade mark of Abrites Ltd.

2. Getting Started

The Abrites diagnostics for Renault/Dacia is installed together with the software applications as a part of the installation provided to the user with the e-mails sent.

You can start the Abrites diagnostics for Renault/Dacia from the Quick start icon, installed on your desktop upon installation of the Abrites diagnostic suite. You will be able to start it by clicking on the brand logo. When the software opens the user will see the following screen:



In this main screen the user can select the model of the vehicle and proceed to diagnostics or click the "Detect" button in order for the Abrites diagnostics for Renault/Dacia to automatically detect the vehicle.

3. Standard Diagnostics

The Abrites diagnostics for Renault/Dacia provides a multitude of options in terms of standard diagnostics. It can assist the user to read and clear diagnostic trouble codes (DTC), perform identification on the electronic control modules installed in the vehicles produced by Renault and Dacia, show the actual values of the vehicles in real time in a list form as well as a graph and also perform actuator testing in order to determine the cause of issues within the vehicles.

3.1 Module Identification

Once the software identifies the vehicle make and model the user will see the list of modules installed in the particular vehicle. When they choose a module and click on it the following screen will be displayed:



Using the "Identification" button the user will have all the available information for the module. This includes part number, supplier, programming number, VIN, as well as many other details. This will help in the cases where a replacement unit is needed.

3.2 Reading and clearing Diagnostic Trouble Codes (DTC)

Diagnostic Trouble Codes are one of the first signs of issues with a vehicle. Abrites diagnostics for Renault/Dacia provides reading and clearing of these codes as well as full information about the codes themselves. Once the module that is diagnosed is found (after scanning for trouble codes from the main screen the DTCs are displayed in a list next to the electronic modules) the user can enter the module and select the "Read DTCs" button.



A description of the trouble code is provided. It contains the description of the DTC (one or more), the car's code for it as well as the total amount of the discovered trouble codes. Once the user is done with the analysis of the present codes and the repair of the fault itself they can proceed to clicking the "Clear DTCs" button which will remove the code from the electronic unit's memory.

3.3 Actual Values

Actual values are an inseparable part of the detailed diagnostics of a vehicle. They are used to monitor and observe the details of operation of the vehicles's components in real time and can allow the user to make adjustments to the vehicle and immediately see their effect. The actual values can be viewed using the "Data display button". They can be monitored as a list or in graph form:

Current Data	anaration (States)	×
DATASET	•	
Data	Value	
DRIVER'S DOOR	CLOSED	Previous
INJECTION IMMOBILISER CODE	INACTIVE	
STARTER SWITCH POSITION	+APC	
BRAKE PEDAL POSITION	RELEASED	Vext
CLUTCH START OF TRAVEL SWITCH	RELEASED	
RF KEY VALID	NO	
RF RECEPTION COUNTER KEY	0.00	
BATTERY VOLTAGE	12.49 V	
FRONT WASHER REQUEST	MISSING	
REAR WASHER REQUEST	MISSING	
PASSENGER'S DOOR	CLOSED	Pause
REAR DOORS OR BOOT	CLOSED	
REAR RIGHT DOOR	CLOSED	Graph
LEFT HAND REAR DOOR	CLOSED	
TAILGATE/BOOT OPEN BUTTON	RELEASED	X
REAR SCREEN WIPER PARKED POSITION	INACTIVE	• <u>E</u> xit

In the list view the options are stacked and their status value is displayed on the right hand side of the screen.

Using this view many separate sources can be viewed simultaneously. The user can choose to freeze the live data reading in order to observe and analyze them at a particular point.

The live values can also be displayed in a graph. This graph can be opened by selecting the "Graph" button. It can be recorded, saved and played for further analysis. The user can zoom the graph for aditional details or to see it in a larger scale so that the vehicle's behaviour can be thoroughly analyzed:



3.4 Actuator Tests

When looking for the soursce of a fault in a vehicle it is very important to be able to test separate components within a system in order to determine the exact part of a system that is faulty. This is applicable particularly in the cases where the system is more complex which is very common in modern vehicles.

Some vehicles have many actuators that enable and disable one or more functionalities of the vehicle's operation as well. These may be used to determine a cause of a fault but also to apply changes to a vehicle.

Current Data	and the first sector of the se	×
DATASET	-	
Data	Value	
FAULT FINDING ON ACCESS AERIALS		Previous
STARTER AERIALS TEST		
HFM> TRANSPONDER RING CONNECTION TEST		-
REMOTE LOCKING BUZZER	IN PROGRESS	Next
ABRI		Pause
		× Exit

4. Advanced Diagnostics

Abrites diagnostics for Renault/Dacia provides the user with advanced diagnostic functions in the form of special functions. These functions can be used in the cases where a vehicle is in need of special operations such as key learning and PIN code reading (used mostly by automotive locksmiths, but applicable in repair shops too), module ID repalcement (valid in the cases where an electronic module requires replacement), reading mileage and calibration (once again – extremely valuable when replacing a module), Airbag memory manager (used often in the field of damage repair workshops).

4.1 PIN code reading and key learning

In order to open the key learning functions of the Abrites diagnostics for Renault/Dacia the application should be started. On the main screen the user should select the "Special functions" menu:



Once in the main screen the user will see the special functions list. Please note that not all special functions may be included in the basic software and they must be purchased in order to be used.

4.1.1 Common procedure

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 from the drop down list of supported models:

	Clio II	Ph2/3	X65	2002-2006 🗸	•
	Master	Ph2	x70	2002-2006	-
	Master	Ph3	x70	2007+	
	Master	III	X62	2010+	
	Megane	II	X84	2003-2006	
Dia	Megane	II Ph2	X84	2007+	
_	Megane	III	X95	2009+	
-	Megane	III RS	X95	2009+	_
	Modus		X77	2004+	
	1				

When this function is opened, the "ABRITES Diagnostics for Renault/Dacia" opens the following dialog:

Key Learning	X
Key ID Key type B2476E86 Key/Card with RF - PCF7961 66466E86 Key/Card with RF - PCF7961	Start Stop Stop
	Learn
PIN Code: Read PIN Code	Preapare PCF7936 transponder
Done.	X Exit

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.

After that you should follow the instructions.

Normally the procedure goes in that way:

1. 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.

3. 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 some models there are two ways to learn keys/cards – regular procedure or using direct writing to the EEPROM memory. For Clio III Direct, Modus Direct and Traffic III Direct 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 shown in 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 (useful if you made a mistake during the key-learning procedure like forgot to put a key).

If you do not 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".

4.1.2 X95 based cars

For X95 based cars (Megane III/ScennicIII/Fluence, etc) there is a difference in step "2" from the common procedure. The rule is that if you will learn a new (virgin) key/card, put the card in the ignition lock (without giving IGNITION ON), if you will learn an already pre-coded or working keys/cards - there should be no key/card in the ignition lock. Here are some examples:

- if you will learn a virgin card, put this card in the ignition lock. For example if car has two working cards, and you want to add one, you should specify 3 cards for the key count, put the virgin card in the ignition, then when invited to put first key/card do nothing. Then when invited to put second and third key/card, put the original working keys into the ignition. If you want to add two virgin cards, you need to execute the whole procedure twice!
- if you will learn only cards which are working (e.g. car has three working cards, one of them is loosed and you want to relearn that only the other two cards continue to work), in that case no card should be on the ignition for this step.

NOTE: For Renault Fluence if you want to learn a virgin key, put it in the ignition lock (without giving ignition ON) and perform the procedure (this is the original procedure). If you've message "PIN code not accepted! Make sure ignition is OFF!" - then repeat the procedure from the beginning with the SAME VIRGIN KEY, and this time the key should be outside the ignition lock! (i.e. the exception here is that the virgin key is not in the ignition lock).

4.1.3 X95 based cars with updated software

Starting from about 2011 these cars have updated software in the immobilizer and it is no more possible to make them by OBDII. With ABRITES Diagnostics for Renault, it is possible to make cards for them, but you should first read them with the ABPROG. You can easily recognize these immobilizers since they are showing "09090909" for the existing key-IDs.

Key l	Learning			×
	Key ID 19030303 19030303	Key type Key without RF Key without RF		Start
				Learn
PI	IN Code:		Read PIN Code	Preapare PCF7936 transponder
D)one.			Exit

If you press "Learn" or "Read PIN Code" for such immobilizer, there will be a warning that first you need to read the immobilizer with the ABPROG. You should press here "Yes" after you already read the immobilizer dump.



To read using Abprog please refer to the Abprog user manual.

4.1.4 Using "Abrites key" cards

Vehicles like the Clio IV can use the key cards, produced by Abrites ltd. These cards come prepared for the user and look like this:

It is used together with the Abrites PROTAG programmer and can be purchased from abrites.com or our dealer network.



The correct position of the card over the PROTAG programmer is shown below:





The procedure for "Abrites key" cards requires connection to the internet. The car will be autodeted:

The Abrites diagnostics for Renault/Dacia will ask you to confirm whether orr not the vehicle is correctly autodetected. You can confirm.

	A11 1	Units for (CLIO IV				P	rotocol	DTC	
	INJE	CTION (\$'/A)							
	A.B.	s. (\$01)								Previo
	INST	RUMENT PAN	EL (\$51)							
	UCH	(\$26)								
	AIRB	AG / PRETE	NSIONERS	(\$2C)						Ģ
	P		-				- fr			X Open
	A	Model								
0	c								6	
в	v	Clio IV	card			2012+		•	Upen	Next
D	u									
	שחוח	THE DROV C	ANT (COP)	,						-
e v	/ehicle Se	lection 👫 Sp	ecial Functions							
(010110 110011 101000 0001(1				Cuent		6	
Key	Learning	Dump Tool	Change ID	PIN Calculator	Clio PIN by dump	Cluster Calibration	Read/Updat ConfData	e [Open	Option
1	R	1. Second								0
	Airbag	ECU Flasher								Ewit



Press start and the software will ask you to input the number of keys to be programmed:

In this case we will be programming 1 key-card.



A ABRITES Di Key Learning 23 53 # A11 Key ID 09090909 Key type Key without RF 1 INJE 2 A. H Previous 3 INST 4 UCH STOP 5 G AIRD Please Wait... Stop 8 Open AIR Reading Configuration Data, please wait... 9 AUTO 10 COMM Learn keys 18 VARI Next X Cancel 20 UPC 55 % R a Time: 00:00:14 41 -Preapare PCF7936 transponder 🚘 Vehicle S PIN Code <u>وم</u> Read PIN Code -Key Learnin Options × Rirbag Reading PIN. Please wait... Exit Exil

After following the instructions the Configuration data and PIN are being read:

At this point the software will ask you if you are using and Abrites key. Please confirm.

A AB	RITES DI	Key Learning	1000	
# 1 2	All INJE A.B.	Key ID 09090909	Key type Key without RF	Start
3 4 5 8	INST UCH AIRB ATR		ABRITES Diagnostics for Renault	
9 10 18 20	AUTO COMM VARI UPC		Do you want to learn an ADRITES key?	Learn keys
Key	Vehicle Se	PIN Code A90	ISDC60D032 Read PIN Code	Prcaparc PCF7936 transponder
	R irbag	Done. PIN: A9(18DC60D032	

23 A ABRITES DI 23 Key Learning # A11 Key ID Key type Key without RF 1 INJE 09090909 2 л.в. Previou 3 INST 4 UCH STOP G 5 AIRB 5top ABRITES Diagnostics for Renault Open 8 AIR 9 AUTO In order to continue this operation you must be connected to the Internet. 10 COMM Please establish an internet connection and press OK to continue. ♣ n keys 18 VARI Next Cancel ок 20 UPC 11 -Preapare PCF7936 transponder 😝 Vehicle Se PIN Code A908DC60D032 **%** Read PIN Code 3 Key Learnin Options X × Done. PIN: A908DC60D032 Exit Airbag Fxit

At this point you will be reminded to check the internet connection.

Then connect the PROTAG programmer:

	RITES DI	Key Learning		23	
# 1 2	All INJE A.B.	Key ID 09090909	Key type Key without RF	Start	Previous
3 4 5	INST UCH AIRB			STOP	G
8	AIR	ABR	ITES Diagnostics for Renault	Stop	Upen
10 18 20	COMM VARI UPC		Please connect PROTAG via USB or directly to AVDI and click OK	arn keys	Next
А1 🚘 \ (Кеу	Vehicle St	PIN Code A903	DC60D032 Read PIN Code	Preapare PCF7936 transponder]
,	Rirbag	Done. PIN: A908	IDC60D032	Exit	Exit



Then place the Abrites card over the Protag programmer as per the photo above and click "OK"

The Abrites card will be prepared:

#	All		1		
1	TNUTE	Key ID	Key type		
	11101	09090909	Key Without KF	Start	
2	A.B.				Previou
5	ATRR			1994 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
3	AIR			eton	
9	AUTO				G
12	GAS		ABRITES Diagnostics for Renault	Stop	Open
21	TYRE				
5	SUNR		ABRITES card prepared successfully!		
55	SFAT			Learn keys	
	JERI		ОК		Next
				Preapare	
	ehicle Se	-	00000000	transponder	1
(PIN Code A90	Read PIN Code		
Key	Learning				Option
10.0				X	
	X	ABRITES card	prepared successfully!	Exit	0
1	Airbag				Exit

#	All	Key ID	Kautana	
1	INJE	09090909	Key without RF	Start
2	A.B.			Braviou
5	AIRE			Freviou
	AIR			
,	AUTO			Stop
2	GAS		Key Learning	Open Open
21	TYRE			
25	SUNR		Please insert key 1 and give on ignition and press of	Learn keys
65	SEAT		0	< Next
ر ا	/ehide Se			Preapare PCF7936
Key	Learning	PIN Code A90	Read FIN Code	transponder
	••			X
		To north lange 1		

Continue by putting the card in the ignition and press OK

The software will then confirm by saying "Done" in the bottom left corner:

#	All	Key ID	Key type		
L	INJE	09090909	Key without RF	Start	
	А.В.				Previour
	AIRE				Treviou
	AIR				
	AUTO			3 10	G
2	GAS			Stop	Open
1	TYRE			(
5	SUNR			Learn keys	
55	SEAT				Next
R 1	/ehicle Se			Preapare PCF7936 transponder	
Key	Learning	PIN Code A90	Read PIN Code		Option
	*	Done.		Exit	

Please note that in case you have not used an Abrites card during the process the software will note this immediately.



4.2 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.

4.3 Change ID

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

Lhange ID		×
Hnit name:	ОСН - ВСМ	▼ 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.

4.4 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.



4.5 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.

4.6 Cluster calibration

This function allows the user to calibrate the mileage in all relevant modules. Please note that regarding the vehicle models that use ABS synchronization there is the added option to disable the sync. This special function also provides the option to read and write the EEPROM and flash so that in case of any issues during calibration or others you can repair the vehicle. The function provides the added option to disable the synchronization between the cluster and the ABS module - Ideal for replacing components containing the vehicle mileage. Once you replace the faulty mileage containing module you can set the value to the car's actual mileage with no more than a few clicks. Incrementing and decrementing is available in this option.

You can re-enable the synchronization easily by reflashing the cluster with its original file which you can find in the log files folder. It is automatically saved there before you start the synchronization disabling procedure.

In order to determine the mileage it has to be read:



In some cases it is inevitable to disable the synchronisation between the ABS and cluster:

Instrument cluster	
Current mileage value: 25227 km Read	Exit
New mileage value: 0 km Recalibrate	
Disable ABS synchronization	
ABS Current mileage value: 0 km Load ConfData dump	,
New mileage value: km Save ConfData dump	,
Done.	

Instrument cluster Conf Data can be read, updated, saved to file and loaded via OBD:

Instrument Cluster ConfData Read/Update	<u>×</u>
Instrument Cluster Visteon Renault Clio IV EEPROM 00000000 00 02 FF 3F 01 01 09 95 3F 3F CE E7 08 18 70 FF????p. 00000010 01 01 01 01 00 00 1B 58 00 00 03 80 B8 03 6AX.8] 00000000 01 01 01 01 00 00 1B 58 00 00 03 80 B8 03 6AX.8] 00000000 01 15 80 07 96 FF FF. 00000000 07 FF	Bead I Load from file Update Update Memory type: E2P
00000000 00 1E 00 1E 19 28 04 E3 00 00 10 00 EE 00 F0 01(
000001P0 FF	, • Exit

4.7 ECU configuration data, flash and IMMO data reading and updating

When a situation requires for the ECU configuration data, flash and IMMO data to be read the Abrites diagnostics for Renault can assist. This option is focused on different ECUs within the Renault vehicle brand. Currently the support for the ECUs includes the following:

Reading and updating the EEPROM of the following ECUs:

- EDC15C3
- EDC15C13
- EDC17
- SIRIUS32
- SID301
- SIM32
- SAFIR/SAFIR2/SAFIR200
- IAW 6R.20
- IAW 6R.30 (reading only)

Reading and updating the FLASH of the following ECUs:

- EDC15C3
- EDC15C13
- EDC17
- SIRIUS32
- SID301
- SIM32

Clearing IMMO code data for the following ECUs:

- EDC15C3
- EDC15C13
- EDC17
- SIRIUS32
- SID301
- SIM32
- IAW 6R.30

You can operate with all these ECUs on a desk using the following adapter OBDII to DB9 Male:



4.7.1 EDC15C3

For this ECU the type of MCU is SAK-C167CS-LM, the external flash is AM29F400BT with size of 512 KB. The configuration data is stored in EEPROM 95P08 with size of 1 KB. Use the following pinout to DB9 Female connector:

DB9 F Pir	ECU Connector		5001502
1	В	M4	EDC15C3
2	В	E3	
3			АВС
4	А	C3	
5			
6	В	M3	PinG2 IMMO line
7	В	D4	
8	А	D3	
9			

After clearing the IMMO code, the ECU will perform self-learning with the first ignition cycle when a valid signal from immobilizer is present. Note that you need a valid signal from immobilizer system to start the engine!

ECU TYPE	F	DC	:15	C3													•	Г	EEPROM
00000350	0E	OA	02	02	0E	03	00	01	01	44	00	01	01	01	01	01	D ^		
00000360	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01		11	Read EEPROM
00000370	27	0B	1D	27	13	09	03	01	63	31	13	OF	0E	09	04	03	''c1	١.	
00000380	02	63	1F	13	09	07	05	08	07	06	05	04	03	02	01	00	.c		
00000390	00	01	80	OF	01	00	00	01	01	00	00	01	00	01	00	00			Write EEPROM
000003A0	01	00	01	02	03	04	05	06	01	01	00	01	00	01	01	00			
000003B0	01	00	01	00	01	00	01	00	01	04	02	04	01	03	02	00			
000003C0	01	00	00	00	00	00	00	00	01	01	01	01	01	01	01	01			class TARIAG and a
000003D0	01	01	01	01	01	01	01	01	01	00	01	00	01	01	00	01			Clear IMMO code
000003E0	00	01	03	02	03	00	03	00	01	00	00	00	01	01	00	01			
000003F0	00	01	03	04	03	01	03	00	64	00	32	0A	7D	FF	32	01	d.2.}.2.		EXTERNAL FLASH
00000400	01	00	01	00	01	00	01	00	08	80	09	0A	05	06	19	80			
00000410	80	5A	5A	00	2C	05	00	00	02	02	5A	05	08	07	08	09	.ZZ.,Z		Dead FLASH
00000420	02	1E	1E	09	0A	19	19	17	1E	32	14	37	5A	62	63	14	2.7Zbc.		ReduiteAdit
00000430	0A	14	5A	28	0A	00	00	1E	00	00	00	00	00	01	00	00			
00000440	02	02	02	02	02	02	00	00	00	00	00	00	00	00	00	00			
00000450	01	00	00	00	01	01	00	01	00	01	03	00	01	01	03	01			Write FLASH
00000460	00	01	03	04	03	01	03	00	01	02	03	05	09	06	07	80			
00000470	00	05	00	00	00	05	00	00	00	00	00	00	00	00	00	00		15	
00000480	00	FF	00	01	00	00	01	00	FF	01	00	00	00	00	00	00			
00000490	00	01	00	01	00	01	01	00	01	01	00	00	00	00	00	00			
000004A0	01	FF	96	D2	00	FF	50	01	01	00	01	01	01	01	01	01	P		
000004B0	01	9B	96	6E	00	9B	01	01	01	00	01	01	01	01	01	01	n		
000004C0	14	FE	FF	FF	14	FE	FE	14	14	14	14	14	14	14	14	14			Load from file
000004D0	00	FF	FF	6E	00	FF	7D	00	00	00	00	00	00	00	00	00	n}		
000004E0	00	00	00	01	00	00	01	00	00	00	00	00	00	00	00	00			1 1
000004F0	00	00	00	00	00	00	00	00	01	01	01	01	01	01	01	01			
00000500	00	00	01	02	01	00	01	00	00	00	00	00	00	00	00	00			
00000510	00	00	01	00	01	00	00	01	00	00	00	00	00	00	00	00			Save to file
00000520	00	00	01	02	01	00	01	00	00	00	00	00	00	00	00	00			
00000530	01	00	00	00	00	00	01	00	01	01	01	00	00	00	00	00			\sim
00000540	00	01	01	00	00	01	01	08	00	00	00	00	08	0A	09	08	······ v		\wedge
<																	>		Exit

4.7.2 EDC15C13

Please bare in mind that the EDC15C13 box looks very similar to the EDC16 boxes. Please make sure that you check the BOSCH number to be 100% sure what ECU you have. The MCU type is SAK-C167CS-LM. The external flash is AM29F400BT with size of 512 KB. The configuration data could be stored either on 5P08 or 35P08 EEPROM with size is 1KB.

You can read and write the configuration data and the full flash using the appropriate buttons.

After clearing the IMMO code, the ECU will perform self-learning with the first ignition cycle when a valid signal from immobilizer is present. Note that you need a valid signal from immobilizer system to start the engine!

DB9 Female Pin	ECU Connector	
1	В	M4
2	В	A1
3		
4	С	F2
5		
6	В	M3
7	В	F1
8		
9		

Use the following pinout to DB9 Female connector:



4.7.3 SID301

The SID301 ECU has a MPC561 MCU type and the external flash type is AM29BDD160GB with size of 2 MB. The configuration data is stored on 95320 EEPROM with 4KB. After clearing the IMMO code, the ECU will perform self-learning with the first ignition cycle when a valid signal from immobilizer is present. Note that you need a valid signal from immobilizer system to start the engine!

Use the following pinout to DB9 Female connector:

DB9 Female Pin	ECU Connector	ECU Pin
1	С	H4
2		
3	С	A4
4		
5	С	A3
6		
7		
8		
9	С	D1
9	В	G4



4.7.4 SIRIUS 32

For these ECUs we have two options for the type of MCU: SAK-C167SR-LM an SAK-C167CR-LM. The external flash is AM29F200BB, 256KB in size.

After clearing the IMMO code, the ECU will perform self-learning with the first ignition cycle when a valid signal from immobilizer is present. Note that you need a valid signal from immobilizer system to start the engine!

Use the following pinout to DB9 Female connector:

DB9 Female Pin	ECU Connector	
1	В	28
2	В	29
3		
4	В	56
5		
6	А	66
7	А	39
8	В	26
9	В	30



ECU TYPE	5	SIF	RIU	IS	32	à l											•		EEPROM
00000000	10	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		^	Read EEPROM
00000010	00	00	00	00	00	00	00	00	00	40	00	00	00	00	00	00			
00000030	00	00	00	00	00	00	00	00	00	00	OF	OF	00	00	00	00			
00000040	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			Write EEPROM
00000050	00	00	10	00	00	00	00	00	80	01	80	01	01	00	00	80			
00000060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
00000070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			Clear IMMO code
08000000	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	00	80	25	91	BC	BA			
00000090	FO	FU	00	10	00	00	10	00	00	00	00	00	00	00	00	00			
000000A0	00	00	00	00	00	00	A	BRIT	ES D	Diag	nost	tics t	for F	Rena	ult		×		EXTERNAL FLASH
0000000000	00	00	00	00	10	30	-												
000000000	00	00	00	00	00	00	6										.v"		Read FLASH
000000E0	00	00	00	00	00	00	6	1	A	0	pera	tion	cor	nple	ted	suco	essfully		
000000F0	00	00	34	94	80	10	0	4		IL	Irn I	gnit	ion	OFF/	ON		@		
00000100	00	00	00	00	00	00	0												Write FLASH
00000110	00	00	00	00	00	00	4												
00000120	00	00	00	00	0C	09	1										ок		
00000130	00	00	00	00	00	00	9												
00000140	A8	D8	A8	DB	00	00	1_												~ A
00000150	00	00	00	00	00	00	00	00	00	00	00	00	01	80	00	00			
00000170	00	00	00	00	20	00	00	00	00	00	00	00	E6	OB	00	00			Land from file
00000180	FF	FF	BF	8F	FF	FF	BF	BF	CF	CF	CF	CF	FF	FF	FF	FF			Load from the
00000190	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF			
000001A0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF			
000001B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF			
000001C0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF			Save to file
000001D0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF			
000001E0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	•••••		×
000001F0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF		~	
<																		>	Exit

4.7.5 SAFIR/SAFIR2/SFR200 using 35 or 55 pin connector

The Sagem Safir/Safir2 and Magneti Marelli SFR200 ECUs have a TMS374 internal MCU. The configuration data is 256 KB. For these ECUs you can read the configuration data of the TMS374, you can clear the IMMO code and the car can run with the cleared code if the immobilizer line is disconnected from the ECU. In this case the Immobilizer line for the 35 pin connector is pin 30 and for 55 pin connector – it is pin 37.

After clearing the IMMO code, the ECU will perform self-learning with the first ignition cycle when a valid signal from immobilizer is present. Note that you need a valid signal from immobilizer system to start the engine!

18 SAFIR/SAFIR2/SFR200 (35 PIN) 4.34 1 2 3 35 Pin 30 IMMO line 9 4 5 6 7 20 8 10 9 18

Use the following pinout to DB9 Female connector for 35 pin version:

Use the following pinout to DB9 Female connector for 55 pin version:



DB9 Female Pin	
1	2.18
2	
3	
4	11
5	
6	
7	48
8	38
9	1

ECU TYPE S	SAFIR2/	SFR200		▼	EEPROM
00000000 03 00000010 00 00000020 55	04 55 1C 00 00 00 AA 80 44	86 13 00 00 00 00 00 00 00 00 00 06 66 04 30 30	00 00 00 00 00 00 00 00 00 00 00 00 00 0)U	Read EEPROM
00000030 OA 00000040 OO 00000050 OO	5A 32 21 00 FF FF 00 00 00	64 94 48 30 11 00 FF 01 FE 01 00 00 00 00 00 00	70 05 64 43 BC 00 0 FE 00 FF 00 00 00 00 00 00 00 00 00 00 00		Write EEPROM
00000070 7C 00000080 00 00000090 00	77 00 00 00 00 00 00 00 00) 80 80 68 9D 72) 01 E5 08 FF 00) 00 00 00 00 00 00) 00 00 00 00 00 00	5A 46 4F 4B 93 8D 76 00 00 00 00 00 F6 35 00 00 00 00 00 00 00 00 00 00 00 00 00)9	Clear IMMO code
00 0A00000	00 00 00		Jiagnostics for Renault	×	EXTERNAL FLASH
000000B0 00 000000C0 00 000000D0 00	00 00 00 00		Operation completed sur	cessfully	Read FLASH
000000E0 00	00 00 00		Turn Ignition OFF/ON!		Write FLASH
				ОК	Load from file
					Save to file
					×
<				>	Exit

4.7.6 SIM32

The Siemens SIM32 has a HD64F7055 MCU with 512KB FLASH. The configuration data is 2KB stored in 95160 EEPROM.

After clearing the IMMO code, the ECU will perform self-learning with the first ignition cycle when a valid signal from immobilizer is present. Note that you need a valid signal from immobilizer system to start the engine!

Use the following pinout to DB9 Female connector:



DB9 Female Pin	ECU Connector	
1	С	H4
2	С	D1
3	С	A4
4	С	B4
5	С	A3
6	В	J1
7		
8	В	G1
9	А	G1

4.7.7 IAW 6R.20/6R.30

The Magneti Marelli IAW 6R.20/6R.30 ECUs have a TMS370 MCU. The configuration data is 256 bytes inside the MCU. For 6R.20 you can read/write the configuration data while on 6R.30 you can read the configuration data and clear the IMMO code.

The car can run with the cleared code if the immobilizer line (pin 25) is disconnected from ECU. After clearing the IMMO code, the ECU will perform self-learning with the first ignition cycle when a valid signal from immobilizer is present. Note that you need a valid signal from immobilizer system to start the engine!

Use the following pinout to DB9 Female connector:



4.7.8 EDC17 Boot mode reading

The EDC 17 ECUs can be read by boot mode. You can read the Flash and configuration data.



They can also be saved to files and used later. They can be transferred and updated to other ECUs. Please note that the pinout connections are similar to the ones in the Abrites diagnostics for VAG EDC17 connections.

ECU TYPE	I	EDC	:17	B	00	т											-			EEPROM
0000000	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			^	
0000010	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		1		Read EEPROM
0000020	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		- 1	-	
0000030	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				
0000040	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				Write EEPROM
0000050	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				
0000060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				
0000070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				Clear IMMO code
0800000	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00		_		Cicar Inino coac
0000090	00	00	00	00	Plea	se V	Vait.										– 🗆 X			
00000A0	00	00	00	po																EXTERNAL FLASH
00000B0	00	00	00	po	Re	ading	FL	ASH,	plea	se v	vait.									
00000000	00	00	00	po																Read FLASH
00000000	00	00	00	po																
00000E0	00	00	00	po				-										-1		
00000F0	00	00	00	20																WARA ELACH
0000100	00	00	00	po	1															WHILE FLADH
0000110	00	00	00	po													(<u> </u>			
0000120	00	00	00	po													X			
0000130	00	00	00	po			-			-		~ ~								-
0000140	00	00	00	po	1	.5 %	R	emair	ning	Time	2: 00	:04:	13				L Cancel			10 A
0000150	00	00	00	UQ OO	00	00	00	00	00	00	00	00	00	00	00	00				
0000160	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	•••••			
0000170	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				Load from file
0000180	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				
0000130	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				
0000180	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				
0000160	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				Save to file
0000100	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				bare to me
00001E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				
00001E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				X
	00	00	20	00	00	00	00	00	00	00	00	00	00		00	00			V	•
0000110																				200 000

4.8 EDC 17 Specific functions

There are some EDC17 specific diagnostic functions available - injector coding and DPF regeneration.

#	All Units for MEGANE/SCEN.		Protocol	DTC
L	INJECTION (\$7A)			
2	A.B.S. (\$01)			Pre
5	AIRBAG / PRETENSIONERS (\$2C)			
3	AIR CONDITIONING (\$29)			
9	AUTOMATIC GEARBOX (\$6E)			
12	GAS INJ. (\$79)	DPF Regeneration		0
21	TYRES (\$08)			
25	SUNROOF CONTROL UNIT (\$1C)	Injector Coding		
55	SEAT MANAGEMENT (\$2A)			N
		Close		
R 1	Vehicle Selection 11 Special Functions		r	
-			60000 ^	S
Key	/ Learning Dump Tool Change ID PIN Calc	ulator Clio PIN by Cluster Rea dump Calibration Co	ad/Update onfData	Open Op
	🔮 📾 📻 🖷	•		

The injector coding function will allow you to read the injector codes, and write the new ones when an injector has been replaced for example. Take additional attention when writing the new values - there is a checksum inside the code and ECU will refuse to accept invalid codes.

ŧ	All Units for CAPTUR/Q	43	de fin de la	in the second	Protocol	DTC	-	
	INJECTION (\$7A)							
	A.B.S. (\$01)							Previo
	INSTRUMENT PANEL (\$51)							
	UCH (\$26)	Injector Coding			×			
	AIRBAG / PRETENSIONERS		Current	New				9
	AIR CONDITIONING (\$29)	Injector 1	AZ1CCSA	AZ1CCSA				Oper
	AUTOMATIC GEARBOX (\$68	Injector 2	7P8GAS7	7P8GAS7				
0	COMMUNICATIONS UNIT (\$	Injector 3	8Y887W7	8Y887W	7			
3	VARIABLE P.A.S. (\$04)	Injector 4	8ZR1DEB	8ZR1DEB				Nex
)	UPC (\$27)		4	×				
	Vehicle Selection	Read	Write	Exit			-	
(Contract	<u>^</u>	Ģ	1	-
(ey	Learning Dump Tool Change ID	PIN Calculator Clio P du	PIN by Cluster mp Calibration	Read/Up n ConfDa	date Ita	Open		Option
	😫 🖾							0
	Airbag ECLI Elasher Engine Contr	ol EDC17			~			-

Before starting the procedure, please be sure that the vehicle is placed on non-flammable surface away form public places! It is recommended to observe the vehicle from a distance with a fire extinguisher on hand.

A AB	RITES Diagnostics for Renault	6.9		www.abri —		
#	All Units for CAPT	UR/QM3	Protocol	DTC		
1	INJECTION (\$7A)					
2	A.B.S. (\$01)	DPF Regeneration	×			Previous
3	INSTRUMENT PANEL (The procedure can be paused by two short press	ses of the			
4	UCH (\$26)	START-STOP button. To stop the procedure, turn IGNITION OFF for al	t least 1 munute.			
5	AIRBAG / PRETENSIO	- Stop the ABRITES Diagnostics				6
8	AIR CONDITIONING (- Press the brake pedal The operation takes 30 minutes.				Open
9	AUTOMATIC GEARBOX	Engine Speed	0 RPM			
10	COMMUNICATIONS UNI	Coolant temperature	0 °C			
18	VARIABLE P.A.S. (\$	Turbo temperature	0 °C			Next
20	UPC (\$27)	DPF temperature	0 °C			_
11	DADUTNIC DDOX CANI (•	
1	Vehicle Selection 🕌 Special F		~		_ 1	
(010110 110011 101000 00010	Ctart	Cancol	G		
Key	Learning Dump Tool Cha	dump Calibration	ConfData	Open		Options
	•					
	Airbag ECU Flasher Engin	e Control EDC17				
			•			Exit

Reading the CLIO IV/ Captur handsfree module:





NB!

Please note that the Male DB25 must be connected to the ABPROG which must be connected to the AVDI. Then you can read the handsfree module.

4.9 Renewal

The Abrites Diagnostics for Renault/Dacia offers the new "Renew" Special Function. It will allow you to renew Airbags, UCH, EPS and ESL. The "Renew" Function can be located under the main Special Functions list:

ABRITES Di	agnostics for F	Renault 7.3					www	.abrites —	
Scan	ned Units	for MEGANE	III/SCENIO	CIII		Pi	rotocol	DTC	
UCH	(\$26)					ci	AN	12	
									Previou
									Open
									Next
	ଥା		1						
Vehicle Se	ection [6 5]	Pecial Functions				Carro	^	G	
	1010001		Designed and	Distances in the		dar			
Key Learning	Dump Tool	Change ID	PIN Calculator	Clio PIN by dump	Cluster Calibration	ConfData		Open	Option
Key Learning	Dump Tool	Change ID	PIN Calculator	Clio PIN by dump	Cluster Calibration	Read/Update ConfData		Open	Option

Once you open the "Renew" Special Function, a new Window will appear, letting you choose from four different options- Airbag, UCH, EPS and ESL:

Scanned Units for MEMARINI/SLENICIAL Protocol DTC UCH (\$26) CAN 12 Arbag UCH Q EPS ESL Cose Key Learning Dump Tool Change ID PIN Calculator Close ContData Qen	-	Dimo		Durat			TTT / 0000000	E MEGINE		0
UCH (\$26) CAN 12 Airbag UCH CAN 12 Airbag UCH CAN 12 CAN 12 C	_	DTC	:0001	Prot		5111	III/SCENIC	for MEGANE	ed Units	Scann
Vehide Selection Special Functions		12		CAN					\$26)	UCH (
Arbag	Previou			1						
Arbag										
e Vehice Selection Special Functions rev Learning Dump Tool Change ID PIN Calculator Close Close Close Close Close Close Close Close Close Calcration Calcration ConfData	6				Airbag	~				
e Vehice Selection Special Functions e Vehice Selection Special Functions e Vehice Selection Special Functions e Vehice Selection Close EPS ESL Close Close Close Close Close Calibration Confbata Confbata				-						
Vehicle Selection Special Functions Image: Special Functions Special Functions Special Functions Special F	Oper				UCH	-				
vehicle Selection in Special Functions ey Learning Dump Tool Change ID PIN Calculator Clo PIN by Cluster Read/Lodate Calbration Read/Lodate ConfData	_									
Vehicle Selection i Special Functions ey Learning Dump Tool Change ID PIN Calculator Clo PIN by Cluster Read/Lodate Calibration Read/Lodate Open					EPS	Ð				
evenide Selection is Special Functions ieve Learning Dump Tool Change ID PIN Calculator Clo PIN by Cluster Read/Lodate ConfData	Nev									
					ESL	1				
Wehicle Selection ¹										
ey Learning Dump Tool Change ID PIN Calculator Clio PIN by Cluster Read/Update ConfData					Close	×	1	pecial Functions	ction 👔 S	Vehicle Sele
ey Learning Dump Tool Change ID PIN Calculator Clio PIN by Cluster Read/Update Calbration ConfData	1		<u> </u>					മ	1010110)	6
ley Learning Dump Tool Change ID PIN Calculator Clo PIN by Cluster Read/Update Open	3	4		- Connor		2011	5418	1	110011 101000 0001	J.
	Option	Open	L	Read/Update ConfData	Cluster	Clio PIN by dump	PIN Calculator	Change ID	Dump Tool	ey Learning
						E-	-			
							-	1 1 2	13	107

After choosing the desired renewal function, you will be prompted to select the ECU of the car.

A AB Scanned Units for MEGANEIII/SCENICII) UCH (\$26) DTC ♠ ♣ X Options **\$** î 110011 100010 100000 -Ģ Cluster dump ead/Updat 6 S. \bigcirc 0 Exit 0 -0220-



3. EPS

1. Airbag

ABRITES D	liagnostics for	Renault 7.3					www.	abrites —		A	ABR
Scan	ned Units	for MEGAN	EIII/SCENI	CIII		Pro	tocol	DTC			
UCH	(\$26)					CAN		12	Previous	4	I
	Renew Elec	tronic Power St	eering					×	Open		
	Unit	lease se	lect an	ECU		C	ancel	_]	Next		
🗭 Vehide Si	election 2 5	pecial Functions			_		•			6 	Ne Ve
Key Learning	Dump Tool	Change ID	PIN Calculator	Cho PIN by dump	Cluster Calibration	Read/Update ConfData		Open	Options		Key L
0	E.	\bigcirc	-0000-								-

4. ESL

ABRITES Dia	ignostics for F	Renault 7.3					WWW.J	abrites —	
Scann	ed Units	for MEGANE	III/SCENI	2111		Pro	tocol	DTC	
UCH (\$26)					CAN		12	Previou
	Renew Elect	ronic Steering (Column Lock					×	G
	Unit P.	lease se	lect an	ECU			X	•]	Next
Vehicle Sel	ection 14 S	pecial Functions					î	Ģ	
Key Learning	Dump Tool	Change ID	PIN Calculator	Clio PIN by dump	Cluster Calibration	Read/Update ConfData	L	Open	Option
1.2	-CN	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					and the second sec		

Renewing the UCH will offers more options, which should be taken into consideration. After you make he renewal, you can also adapt the UCH by entering new VIN to the unit and new PIN. To make the renewal, the next steps can be followed.



1. Open the UCH renewal and select an ECU

3. The unit is renewed now



A # Scanned Units for MEGANEIII/SCENICIII Protocol DTC UCH (\$26) 12 evious G Open Unit UCE • Next at the section of Yes No tion 👫 Spe al Functions Change ID Options Clio PIN dump R 110010 G Open -Dump Tool Cluster Read/Update Calibration ConfData CU Flash 0 Exit 0 S EDC17 0 adio Con

4. Make sure to have the original PIN code



To adapt the new UCH module, simply click on "Adapt" and enter the new VIN:

S	canned Units	for MEGANEII	II/SCENICIII		Pro	tocol	DTC	
U	СН (\$26)				CAN		12	Previo
	Renew UCH	(Body Control Mo	Enter VIN Please enter a nev	v Vehicle Identifica	tion Number:	×	×	Ope
			1/24 170000	7050400				
	The unit is	Rene	VF1JZ09034	7052420 У ок	Cancel]	Nex
Vehic Vehic	The unit is in the selection is selection in the selection is selection.	renewed pecial Functions Change ID PII	VF1JZ09034	7052420 ok / Cluster Calbration	Cancel) Open	Nes Diptic

2. Confirm with "Yes" after the warning



1.Remove the key card and switch ignition OFF

3. Insert the key card and switch Ignition ON



2. Enter the original PIN



4. Turn the ignition to OFF/ON



5. The operation has successfully completed and the new UCH is now adapted.



4.10 Radio Code

The Abrites Diagnostics for Renault 7.3 offers the "Radio Code" Special Function. It will allow you to adapt the radio if it was somehow reset. You need to have the last 4 symbols from the ID, which can be obtained in three ways:

On the back side of the unit you can find the code. In this case it is **Y135:**



You can hold the radio buttons 1 and 6 for 3-4 seconds and the code should be automatically loaded on the radio display. The Twingo III car is an exception, where the code standard is different.

You can also click on the "Extended Identification of the radio when diagnosing the car and the code will be displayed as well.

Once you have the code, go to the "Radio Code" Special function and enter the code and calculate the radio code:



	All Units for MEGANE/SCEN.	Protocol	DTC	
1	INJECTION (\$7A)			
2	A.B.S. (\$01)			Previo
5	AIRBAG / PRETENSIONERS (\$2C)			Freno
3	AIR CONDITIONING (\$29)			
9	AUTOMATIC GEARBOX (\$6E)			G
12	GAS INJ. (\$79)			Oper
21	TYRES (\$08)			
25	SUNROOF CONTROL UNIT (S Precode Y135 +-	X		
55	DRIVER'S SEAT (\$2A) Radio Code 1823 Calculate	Cancel		Next
-	Vehicle Selection			
1		<u>^</u>	6	
Key	y Learning Dump Tool Change ID PIN Calculator Clio PIN by Cluster Ri dump Calibration	ead/Update ConfData	Open	Option
	un 🖳 🦳 🔤			

SAGEM SAFIR - SAFIR2 - SFR200

SAGEM SFR200

5. Connecting ECUs on bench using ZN051 Distribution Box

12V ALIM EXT

12V ALIM EXT

SAGEM SFR200





SIEMENS SIRIUS35

SIEMENS SIRIUS 35

С

A3 A4

в

A

SIEMENS SIM32

A ALIMENT





SIEMENS SIRIUS32N



12V ALIM EXT SIEMENS SIRIUS34 EMS3134



SIEMENS SIRIUS34 EMS3134







MM IAW 6R.20 6R.30



SIEMENS SID301





ALIM EXT

BOSCH EDC15 C13