

Achieve the impossible

Abrites Diagnostics for Peugeot/Citroën User Manual

Version: 1.7

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List of Revisions				
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19.Oct.2010	ALL	First version of the document.	1.0	
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1. Introduction

"ABRITES Diagnostics for PEUGEOT / Citroën" is a Windows PC based professional diagnostic software for vehicles from the PEOUGEOT / Citroën group. With the help of this software you can perform complete diagnostic operations of all CAN-based vehicles from the PEUGEOT / Citroën group, which are in most cases unsupported by the manufacturer diagnostic testers. The "ABRITES Diagnostics for PEUGEOT / Citroën" also provides standard diagnostics (read faults, erase faults) for PEUGEOT / Citroën vehicles.

This user manual covers the functionality of "ABRITES Diagnostics for PEUGEOT / Citroën".

Diagnostics is performed via the OBD-II connector. The diagnostic interface currently supports K-Line, CAN-BUS and UDS interface.

2. Vehicle Diagnostics with "ABRITES Diagnostics for PEUGEOT / Citroën"

The "ABRITES Diagnostics for PEUGEOT / Citroën" consists of basically two parts:

- Standard diagnostic functions like reading/clearing fault codes (DTC), scanning for available devices in the car.

- Special functions like Reading Security Code (PIN), Key Learning, Cluster Calibration and Dump Tool.

2.1 Standard Diagnostics



From the main window of the program you can see a complete list of all supported devices and the tabs below it – for scanning units, clearing DTCs, vehicle selection and special functions.

If you want to filter only the devices specific to a defined vehicle you can select a car brand i.e. Peugeot or Citroën and a specific model of this brand. This will show you all the devices that might be present in the selected car. This doesn't mean that all of them are really available – it depends on the level of equipment of the current car and the extra options ordered by the customer.

If you want to filter only the devices present in the current vehicle – click "Scan for Units" button. After a while the device list will be populated only with present ECU's with DTC's retrieved for each of them. In the vehicle context drop down box is visible < Scan Result >. You can return to all units view by selecting < All Units > or filter the specific for a defined model units by selecting the model directly.

Clicking the button Clear All DTC's will erase all stored faults in all units if possible.

If you want to find a specific device by name click the "Filter" button and type part of the device name in the input dialog. As a result the list of devices will have only those of the devices that contain the keyword entered. In this case vehicle context is switched to < Filtered >.

If you want to connect to a specific device just double click on the device from the list. A dialog with identification information is shown.

ABRITES Diagnostics for Peugeo	ot/Citroen		www.abritus72.com	
Built-in system interface (BSI)	-		Increased (1971	
Functional Plan Manufacturer: Functional Produ Software Index: Diagnostic Index Manufactoring Da System: Software edition Software signatu	No: ct No: : te: : re:	9664992380 VDO 9665547480 02.02 DR c/B/2000 B3 07.31 EE.28	,55	
Software referen Manufactoring Da Reprogramming co VIN: Engine type:	ce: te2: unter:	D1220 9676972480 C/B/2010 1 VF7NCRHE8A DW10D (2.0 HDi 150	FAP)	E
Identification	Data Display	Program ID		Clear log
Read DTCs	Custom Request	Set PIN		Write log
Clear DTCs	Custom Query	Verify PIN		Close

Available actions are:

- retrieving identification. This option will allow you to read all the details from the module, complete information about it, the software versions and basically all the data in regards to it.

gine Control Unit		
Diagnostic Index:	OR	
Serial Number:	019999	
Manufactoring Date:	99/4/2099	
System:	41	
Software edition:	215.03	
Software signature:	4E.2E	
Software reference:	9678988180	
Manufactoring Date2:	E/4/2012	
Programming Date:	14/4/2012	
Reprogramming counter:	1	
		·
Locking of the ECU	ECU not locked	
Immobiliser status	Matched ECU	
Synchronisation status	No problem detected	
4		•
Identification Data Disp	lay Set PIN	Clear log
		10.00
Read DTCs Custom Rec	uest History	vvrite log
		×
Clear DTCs Custom Qu	ery Match ECU	\sim
		Close

Reading/Clearing of diagnostic trouble codes (DTC).

The option for reading and clearing of DTCs will allow you to read all the diagnostic trouble codes and help you determine the cause of them. Once the issue has been repaired the DTCs can be cleared:

A ABRITES Diagnostics for Peu	geot/Citroen		www.abritus72.com	
Built-in system interface (BSI))		(Bentines)	×
Status	: Present			
Characterisatio	on : Open circuit			
B1339: Front se	eats lumbar adjustm	ent function auth	orisation output fault	
Cause	: Local		6	
Status	: Temporary			
Characterisati	on : Open circuit			
===				
Total: 66 DTCs	found			
				10
alloan d	ingregija trauble a	odog		
Clear u	Tagnostic trouble c	oues		
DTCs cleared				
biob cicuica				
	m			•
Identification	Data Display	Program ID		Clear log
Read DTCs	Custom Request	Set PIN		Write log
Clear DTCs	Custom Query	Verify PIN		\mathbf{X}
	Custom Query	vening veni		Close
	1			EXIT
			11	

- Data display.

This function will allow the "on demand" viewing of live data from the electronic control modules in the vehicle, such as BSI, ECU, etc. This ability is very helpful when it comes to determing the cause of a fault within the vehicle's operation:

Current Data	Water and Street and St	X
Supply: Main supplies	-	
Data	Value	
Main status of the electrical system	Ignition	Previous
Status of the economy mode	Inactive	
Ignition positive activation control (Ignition positive)	Active	
Status of the electrical network	Engine not running : O	Next
Supply voltage of the BSI when it is triggered	Unavailable	
Physical position of the parc shunt	Customer	
Supply voltage of the BSI	13.9 Volts	
Status of the power train	Not running	
Information from the power train	Coupé	
Power accumulators recharging authorisation status	Recharge authorised	
		Pause
		Graph
		X
		Exit

The 'Live values" can be viewed in a list form (as a list) or in a graph view (when pressing the "Graph" button.



3. Advanced Diagnostics

All the Advanced diagnostic functions are referred to as "Special Functions" They are selected using the Special functions tab in the main screen of the Abrites diagnostics for Peugeot/ Citroën .



3.1 PIN Code Reading and Key Programming

The PIN code reading and key programming function allows for the PIN codes from the vehicles to be read and used in order to program keys using the Key programming special function.

To begin using this function the user would need to have an external power source to the car and to be certain that there is a diagnostic connection to it. This can be determined by scanning the vehicle for diagnostic codes.

Vehicle model	< AUTO DETECT >
Unit	< AUTO DETECT >
Au	tomatically recognize pin code from the vehicle
	Security Code
1	

When selecting the "Read security code" function you will see the following screen:

Once you press the "read" button the software will start reading the PIN code and shortly after it will be displayed:



When the PIN is displayed you can write it down or save it and proceed to the "Key learning". The Main screen of the key learning special function has the option for auto-detection of the vehicle when the "Connect" button is pressed:

ehicle model	< AUTO DE	TECT >	
nit	< AUTO DE	TECT >	Connect
Data		Value	
Security Co	de		
Security Co	ide P	rogram Keys	×

When the software is connected to the vehicle you can type the security code in and press the "Program keys" button which will now be availabe.

A ABRITES Diagnostics for Peugeot/Citroen		www.abritus72.com	<u> </u>
# Citroen DS5 Units		Protocol	DTC
00 Engine Control Unit		CAN	
20 Built-in system i Key Learning	-	×	Previous
21 Engine relay unit	P		
22 Trailer relay uni Vehide mo	del Citroen DS5	29	
40 Multifunction dis Unit	UDS	Connect	\$
41 Radio Data	Value		Open
42 Instrument Cluste Trans	oonder-Key 1 Programm oonder-Key 2 Not Proc	rammed	
44 Not Fastened warn Trans	onder-Key 3 Not Proc	grammed	
45 Telematics Trans	oonder-Key 5 Not Proc	rammed	Next
46 Steering Wheel mc			
19 Implifion Sec	ity Code		•
🚘 Vehicle Selection 🕌 Spec	▼ Program keys	X	
Ready	,	Close	G 🖗
Read Security Key Learning Code	Unit ConfData	Reset	Open Options
Dump Tool Ecu Flasher			Exit

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Here the number of keys that need to be program should be specified. Then the Abrites Diagnostics for Peugeot/ Citroën will provide you with instructions on exactly how to proceed with the key programming process.

3.2 Engine Control Unit

This function is dedicated to reading, saving and updating the engine control unit (ECU)'s Configuration data and flash. It allows for the PIN code to be read, the clusters to be calibrated as well as other funcions – IMMO OFF and after sales preparation of the unit – enabling it to be used in another vehicle. The service lists of the ECU can also be updated using this function.



Reading the Flash of the ECU is also available through this function. It can be used to read, save and update the flash by on board diagnostics (OBD).

This option can be very useful for tuning purposes as there are many models of ECUs supported, including EDC type of ECUs as well as SID ones.

ENGINE CONTROL UNIT	and the factor	X
Unit SID806 CAN 🔻	FLASH	CONFDATA
00000000 4E 52 39 4B 04 01 09 A8 02 00 00 FF FF FF FF FF NR9K 00000010 FF 03 02 5A 00 00 0F FF A1 C1 EF F7 FE FF FF FFZ	Read	Read
00000020 EF FB BB 01 02 00 00 01 AE 6B FF FF FF FF FF FF FFk 00000030 FF FF FF FF FF FF FF FF FE 80 39 36 35 38 34 38965848 00000040 35 37 39 39 17 3A 86 CD FF FF FF FF FF FF FF FF FF 5799	Write	Update
00000050 FF 00 71 C3 FF FFq 00000060 FF FF FF FF FF FF FF 31 94 4E 52 39 4B 04 01 09 A81.NR9K 00000070 02 00 00 FF FF FF FF FF 03 02 5A 00 00 0F FF	EXTERNAL FLASH	Immo OFF
00000090 AE 6B FF FF FF FF 000000A0 FE 80 39 36 35 31 000000B0 FF FF FF FF FF FF FF 000000C0 FF FF FF FF FF FF	Write	Service List
000000C0 FF FF FF FF FF 000000E0 FF FF FF FF FF 000000E0 FF FF FF FF FF FF 000000F0 FF FF FF FF FF FF		Do after sales
54 % Remaining Time: 00:00:39		Odometer
	Load from file	Change ECU PIN
		K9RN Change
	Exit	

Visualizing and resetting of the error history of the BSI and ECU is available through the main diagnostic menu.

3.3 Reading and Updating Configuration Data

This special function is used to backup and restore the configuration data on the ECUs specified. Using it you can read the configuration data of multiple units. This acts as an insurance against sudden loss of power during a process in the vehicle.

A ABRITES Diagnostics for Peugeot/Citroen	www.abritus72.com	
Read/Update Configuration Data	Restanting 1971	×
Unit Instrument Cluster JCI (Citroen DS5)	•	
0000000 Instrument Cluster JCI (Citroen C2)		Read
000000 Instrument Cluster Nippon Seiki (Citroen C.	5)	
0000000 Instrument Cluster Continental (Citroen C4	II, DS4)	
000000 Instrument Cluster JCI (Citroen DS5)		&
000000 Instrument Cluster Magneti Marelli (Peugeo	t 508)	Update
000000 Instrument Cluster JCI (Peugeot 301, Citro	en C-Elvsee)	
000000 BSI Siemens (Peugeot 407, Citroen C2)		
000000 BSI Continental (Peugeot 508, Citroen C4 I	I, DS4, DS5)	
000000 000000 BSI Valeo (Peugeot 208, 2008, 301, Citroen	C-Elysee)	from File
000000E0 00 00 00 00 01 FF FF 00 00 00 00 00 00 00 00	·····	
00000100 00 00 00 00 00 00 00 00 00 00 0		
00000110 00 00 00 00 00 00 00 00 00 00 0	Sav	ve to File
00000130 00 00 00 00 00 00 00 00 00 00 00 00 0		
00000140 00 00 00 00 00 00 00 00 3F 64 00 00 00 00 00 00 00000150 00 00 00 00 00 00 00 00 00 00 00 00 0	?d	
	4	X
2048 bytes read		Close
Dump toor du hasher		Exit

The supported modules include BSIs and instrument clusters most of which can be selected from the drop down menu of the special function.

3.4 BSI (Built-in interface) exchange

The Peugeot/Citroën Built-in System Interface is a control module, essential to the vehicles. It controls a large amount of the vehicle's operation. Given its many tasks this module is very susceptible to failure. Given the cost of a new module and the main dealer prices for an exchange of a failed BSI, the "BSI exchange" special function provides a cost effective way out for the customer, allowing a repair shop to adapt a second hand BSI



This dialog allows you to read the whole content of the one BSI (JCI or Valeo CAN) and transfer it to the new one. It is very important to use the same hardware type of the replacement BSI. The Valeo BSIs are two types - the old one is thick, while the new one is thin, so they can't be mistaken. The JCI BSIs are also two types, but they can't be identified by their exterior, because both are thin. In this case take a look at the sticker for a HW version

CONTRE	HNSON
BOOT 28120836 – 4	V05.01
HARD 28119248 – 3	C BSI VERSION
281201930C	F04853317

The BSI from the picture is V5.01 and can be found in vehicles from 2008 to now. The older vehicles have HW version V2.00 and are typical from 2004 to 2008.

3.4.1 2015+ BSI Conf.Data, PIN reading and odometer correction

The Abrites Diagnostics for PSA has added support for 2015+ BSI Continental units for mileage calibration, PIN reading and EEPROM reading. The functionality will help with BSI exchange as well. The steps below will describe how to perform the desired operations:

Exchange of BSI

Before you start exchanging the BSI, make sure to first read the original EEPROM and PIN code . Once

the PIN code and the EEPROM of the original BSI are read, you can proceed with connecting the replacement BSI and reading its PIN code and EEPROM.

1. Open "Read Security Code"



2. Use "Autodetect" and press "Read"

ABRITES Diagnostics for Peugeot/Citroen 7.3	www.abrite	ès —	- ×
All Units	Protocol	DTC	
0 Engine Control Unit	CAN		
0 Engine Control Read Security Code	×	1	Previou
D Engine Control			
2 Engine Control Vehice model	•		
0 Built-in system			G
0 Built-in system	•		Oper
Automatically recognize pin code from t	he vehide		
l Engine relay un			
2 Trailer relay u Security Code			Next
2 Trailer relay u			
1 Multifunction d		•	
Vehicle Selection 👔 S			
	Read Close	C	(
Read Security Key Learning	Reset	Open	Option
Dump roor Ecompanier Emergency	*		Exit

3. The software will inform you the BSI has to be reflashed



5. Writing the flash



4. Reading EEPROM automatically



6. Searching PIN after the flash is written



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,	# All Units	Protocol DTC -
	00 Engine Control Unit	CAN
	00 Engine Control Read Security Code	X
	10 Engine Control	
	12 Engine Control Vehide model < AUTO DETECT >	
	20 Built-in system	
	20 Built-in system	
	21 Engine relay un	
	21 Engine relay un PIN code successfully foun	.t
	22 Trailer relay u	
	22 Trailer relay u OK	
	40 Multifunction d	
	S	
	Re 💦	ad Class

Once the unit is reflashed and the PIN code is read, write the original EEPROM you have previously saved from the BSI by loading it from the file:

Emergency

3. El

ECU Flasher

:El

Dump Tool

1.Open "Read/Update ConfData"

				201	
A ABRITES Diagnostics for Peugeot/Citroen 7.3	www.abrites	- (×	Read/Update Configuration Data	×
# All Units	Protocol DTC	:		Unit BSI Continental 2015- (Peugeot 508, Citroen C4 II, DS4, DS5)	
00 Engine Control Unit	CAN				Read
00 Engine Control Unit	UDS		Previous	00000000 D1 FF FF FF FF FF FF FF 00 05 FF FF FF FF FF FF FF	inclusion in the second s
10 Engine Control Unit	KWP			00000020 00 BF 15 FF FF FF FF FF 01 5F F4 FF FF FF FF FF FF	
12 Engine Control Unit EDC15	KWP			00000000 00 7F DS FF FF FF FF FF 00 SF FS FF FF FF FF FF FF	
20 Built-in system interface (BSI)	CAN		$\boldsymbol{\varsigma}$	00000050 00 1F B5 FF Please Wait X	Undate
20 Built-in system interface (BSI)	UDS		Open	00000070 00 1F B5 FF Updating Configuration Data, please wait	opuate
21 Engine relay unit	CAN			00000080 00 1F B5 FF	
21 Engine relay unit	UDS		4	000000A0 00 1F B5 FF	(
22 Trailer relay unit	CAN		Next	000000C0 00 1F B5 FF	
22 Trailer relay unit	UDS			000000D0 00 1F B5 FF	Load from File
Vehice Selection display: Vehice Selection Special Functions	CAN	•		0000000P0 00 1P B5 FF 0 0% Remaining Time: 00:04:19 Cancel	
	. ^ (· _		00000110 00 1F B5 FF FF FF FF FF 00 1F B5 FF FF FF FF FF FF	Save to File
Read Security Key Learning Calibration Engine Control Read/Apdate BSI Exchange Servic Code Unit Controlata Read	e Zero Open		Options	00000130 00 1F B5 FF FF FF FF FF 00 1F B5 FF FF FF FF FF FF	
				00000150 00 1F B5 FF FF FF FF FF 00 1F B5 FF FF FF FF FF FF	X
Dump Tool ECU Flasher Emergency	*		Exit	Updating Configuration Data, please wait	Close

As soon as the EEPROM is written, you can proceed with changing the PIN code and reprogram the existing keys. As the EEPROM is locked in the 2015+ models, you can unlock it in the "Read/Update ConfData" Menu with changing the bytes that lock it to "11 11 11 11". The bytes are underlined in red:

Init	BSI	С	ont	ine	nta	1 2	015	- (Peu	geo	t 5	08,	Ci	tro	en	C4	11,	DS4,	DS5)		-	•	
00007EJ	A0 (00	00	19	C8	00	00	DE	A 8	00	00	DE	A 8	00	00	19	C8					۸	Read
00007EE	BO (00	00	75	30	00	00	20	1C	00	00	EA	60	00	00	75	30	u0.			.u0		
00007E	CO (00	00	75	30	00	00	E5	2B	00	00	E5	2в	00	00	33	90	u0.	+.	+	.3.		·
00007EI	D0 (00	00	19	00	12	72	8E	4B	00	01	CA	55	00	01	CA	55		r.K.	U.	U		
00007EE	EO (00	01	CA	55	00	01	CA	55	00	01	CA	55	00	01	CA	55	U.	U.	u.	U		
00007E	F0 (00	00	AB	E0	00	01	C1	38	00	00	BB	80	00	00	BB	80		8.				· · · · ·
00007F	00 (00	00	BB	80	00	00	33	90	00	00	75	30	00	00	33	90		.3	.u0.	.3.		Update
00007F1	10 (00	01	C1	9C	00	00	C3	50	00	00	19	C8	00	00	DE	A 8		P.				
00007F2	20 (00	00	DE	A 8	00	00	19	C8	00	00	75	30	00	00	20	1C			.u0.			
00007F3	30 (00	00	EA	60	00	00	75	30	00	00	75	30	00	00	E5	2в		.u0.	.u0.	.+		
00007F4	40 (00	00	E 5	2в	00	00	33	90	00	00	19	00	12	72	8E	4B	+.	.3		c.K		
00007FS	50 1	F8	BE	4A	10	17	90	03	62	6F	6E	Dl	BC	5E	81	00	16	J	bo	n^.			
00007F	60 (00	00	9B	в3	12	72	8E	4B	56	46	37	33	44	42	48	5A		r				
00007F1	70 4	4D	46	4A	38	35	36	30	35	39	00	FA	C7	00	01	CA	55				U		Load from File
00007F8	80 4	4C	4F	43	4B	57	FF	15	0A	00	00	00	00	00	00	00	00	LOCKW	1				
00007F9	90	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00						
00007F2	A0 (00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00						
00007FE	BO (00	00	00	00	00	00	00	00	00	00	2E	DO	00	00	DE	A 8						
00007F0	CO 4	4C	4F	43	4B	57	FF	15	0A	00	00	00	00	00	00	00	00	LOCKW	1				Save to File
00007FI	D0 (00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00						
00007FE	EO (00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00						
00007FI	F0 (00	00	00	00	00	00	00	00	00	00	2E	DO	FF	FF	FF	FF						
<																					>		X
																							•
32768 by	esree	d	- I		ori	~r	· ·	1	7														Close

		_						-											Т	
nit	BSI	C	ont	ine	nta	1 2	015	- (Peu	geo	t 5	08,	Ci	tro	en	C4	11,	DS4, DS5)		
0007EF	40 O	00	00	19	C8	00	00	DE	A 8	00	00	DE	A8	00	00	19	C8		^	Read
0007EE	30 O	00	00	75	30	00	00	20	1C	00	00	EA	60	00	00	75	30	u0`u0		
0007E0	:0 0	00	00	75	30	00	00	E5	2в	00	00	E5	2в	00	00	33	90	u0++3.		
0007EI	0 00	00	00	19	00	12	72	8E	4B	00	01	CA	55	00	01	CA	55	UU		
0007EE	20 0	00	01	CA	55	00	01	CA	55	00	01	CA	55	00	01	CA	55	UUU		
0007EE	70 O	00	00	AB	E0	00	01	C1	38	00	00	BB	80	00	00	BB	80	8		
0007F0	0 00	00	00	BB	80	00	00	33	90	00	00	75	30	00	00	33	90	3u03.		Update
0007F1	10 0	00	01	C1	9C	00	00	C3	50	00	00	19	C8	00	00	DE	A 8	P		
0007F2	20 0	00	00	DE	A8	00	00	19	C8	00	00	75	30	00	00	20	1C	u0		
0007F3	30 O	00	00	EA	60	00	00	75	30	00	00	75	30	00	00	E5	2в	`u0u0+		
0007F4	10 C	00	00	E5	2в	00	00	33	90	00	00	19	00	12	72	8E	4B	+3r.K		
0007F5	50 E	-8	BE	4A	10	17	90	03	62	6F	6E	Dl	BC	5E	81	00	16	Jbon^		
0007F6	50 O	00	00	9B	в3	12	72	8E	4B	56	46	37	33	44	42	48	5A	r		
0007F7	70 4	D	46	4A	38	35	36	30	35	39	00	FA	C7	00	01	CA	55	U		Load from File
0007F8	30 1	1	11	11	11	57	FF	15	0A	00	00	00	00	00	00	00	00	W		
0007F9	90 0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0007FF	40 0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
000 7 FE	30 O	00	00	00	00	00	00	00	00	00	00	2E	D0	00	00	DE	A 8			
0007F0	:0 1	1	11	11	11	57	FF	15	0A	00	00	00	00	00	00	00	00	W		Save to File
0007FI	0 00	0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0007FE	20 03	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
0007FE	PO 0	0	00	00	00	00	00	00	00	00	00	2E	D0	FF	FF	FF	FF		~	
																		>		X
			_	_		_	-	_	_		_	-	-	_	_	-	-		_	

2. Load the EEPROM and write it to the replacement BSI

 (\mathbf{I})

Exit

As soon as the unit is made virgin, you can write down the original PIN. Re-learning the keys may be needed to make the remote function again:

1. Open the unit in diagnostics

×
Previous
Frevious
Ģ
Open
-
Next
٢.
Options
Exit

3. Choose "Set PIN", enter the new PIN and click "OK"

2. Click on "Other"

ABRITES Diagnostics for Peugeot/Citroen 7.	3	AMS valid until 20/01/ –	
Built-in system interface (BSI)			>
electronic control un Functional Plan No: Manufacturer:	it identification	Faults log	^
Functional Product No: Software Index: Diagnostic Index: Serial Number: Manufactoring Date:	Program ID		
System: Software edition: Software signature: Software reference: Manufactoring Date2:	Set PIN		
Programming Date: Reprogramming counter: VIN:	Verify PIN		
Engine type:	View Faults Log	lose	>
Identification Read DTCs Clear I	DTCs Data Display Other	Clear log X Write log Clos	e
			Ex

4. You will see the PIN you entered has been programmed

A BRITES Diagnostics for Peugeot/Citroen 7.3	AMS valid until 20/01/ – 🗌 🗙	ABRITES Diagnostics for Peugeot/Citroen 7.3	www.abrites 🗆 🗙
Built-in system interface (BSI)	×	Built-in system interface (BSI)	×
electronic control unit identification Eunctional Plan No: 9674745380	^]	Manufacturer: VDO Functional Product No: 9806687980 Sciure Index: 01.02	^
Wanifacturer: VDO Punctional Product No: 9806687980 Software Index: VDO Serial Number: 14725452 Manifactoring Date: 14/2/2014 Software edition: Part PIN for programming X Software reference: OK Programming Date: PN Izado Counter: OK]	Software reference: 01:05 Joingnostic Index: OR Serial Number: 1472545E Manufactoring Date: 121.90 Software edition: 121.90 Software reference: 9692324880 Manufactoring Date: 18/1/2017 Reprogramming Counter: 20 VN: VF73DB Engine type: Unknown	
1 VIN: Engine type: Unknown 4 Storing the PIN in BSI 5 Storing the PIN in BSI 6 Storing the PIN in BSI 7 Identification 8 Storing the PIN in BSI	Ciear log X	Storing the PIN in BSI PIN 1234 programmed < Identification Read DTCs Clear DTCs Data Display Other	Clear log Write log
	Exit		Exit

*Note: You can now test if the keys are working and if not, please proceed with reprogramming them in the IGN slot.

Note that after a successful BSI exchange it is alwas good to have the keys learned again in order to start the engine.

Reading and updating the flash of the Built-in system module can be done through the Read/update conf data menu:

Unit	BS	I	Va.	leo) (Peı	ıge	ot	20	8,	20	008	,	301	,	Cit	ro	en (с-Е	ly	see	∍)	•		[
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4																							Þ.		\mathbf{x}

Mileage correction in the BSI:

When changing the mileage, please use the "CAN" Calibration special function-Calibration The 2015+ BSI models can have the mileage corrected when it is needed, but

please be aware that the editing may need to first reflash the unit. Once it is reflashed (automatically done by the software upon a prompt), the mileage can be edited.

1. Open the Calibration Special function

A	ABRITES Dia	agnostics for Peug	eot/Citroen 7					www.at	orites —		X
=	All Un	its					Prot	socol	DTC	-	
0) Engine	Control Uni	Lt				CAN				
0) Engine	Control Uni	lt				UDS				Previous
1) Engine	Calibration							>	2	
1:	2 Engine										
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•	Lead Security	Key Learning	Calibration En	gine Contro	Read/Update	BSI Exchange	Service Zero		Open		Options
			^								
	Dump Tool	ECU Flasher E	imercency								U

4. Reading the configutaion after writing



2. Click on "Connect" and read the mileage



5. Writing new flash that allows calibration

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Deglase Constal UDS Previous Englase	0 Engine Control Unit		CAN	
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2 Inglan 9 Bills 9	0 Engine Calibration			×
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The second secon			X	
Lano Tool EQJ Reher Emerge	Dumo Tool ECU Flasher Emero	11 % Remaining Time: 00:02:42	Cancel	

3. Enter new mileage and confirm the

CAN



6. The mileage has been set



*Note: After the change, the keys have to be re-learned to the car, else, they may not work as before. Manual verion: 1.7

Visualizing and resetting of the error history of the BSI and ECU is available through the main diagnostic menu.

3.5 Service Zero Reset

Using the Service zero reset function you could "tell" the vehicle that it has undergone its maintenance. For example when the oil is changed there is no other way for the car to know that unless it is coded. This is exactly what this function does.

ehicle model	Peugeot Partner 2008+	-		×
Jnit	CAN	-	Decet	Cancel

The function applies to both K-line and CAN protocol vehicles and the reset requires one step.

3.6 Dump Tool

Using the Abrites Diagnostics for Peugeot/ Citroën's dump tool you can read, save and update data in regards to the airbag control units and crash data. You can remove the crash data from a vehicle – a function that is extremely useful in a workshop that specializes in damage repairs.

Dump Tool	teres (Markana)	×
Unit	▼	
	Airbag Peugeot 106 Autoliv 550 53 84 00 HC11E9	Load
	Airbag Peugeot 106 Autoliv 550 57 91 00 93c66 Airbag Peugeot 106 Autoliv 550 74 74 00 93c66 Airbag Peugeot 106 Autoliv 550 79 04 00 93c66	
4	Airbag Peugeot 106 Autoliv 550 19 04 00 95080 Airbag Peugeot 106 Autoliv 550 89 27 00 95080 Airbag Peugeot 106 Autoliv 550 89 28 00 95080	Save
	Airbag Peugeot 206 Autoliv 550 54 15 00 93c66 Airbag Peugeot 206 Autoliv 550 66 10 00 93c56	
	Airbag Peugeot 206 Autoliv 550 66 61 00 93056 Airbag Peugeot 206 Autoliv 600 23 70 00 95080 Airbag Peugeot 206 Autoliv 600 23 71 00 95080	Save As,
1	Airbag Peugeot 206 Autoliv 600 23 72 00 95080 Airbag Peugeot 206 Autoliv 602 20 10 00 95080	Swap Bytes L/H
	Airbag Peugeot 206 Autoliv 602 20 12 00 95080 Airbag Peugeot 206 Autoliv 602 32 70 00 95080	
	Airbag Peugeot 206 Autoliv 602 32 71 00 95080 Airbag Peugeot 206 Autoliv 602 32 73 00 95080 Airbag Peugeot 206CC Autoliv 602 32 72 00 95080	lear Airbag Crush Dat
	Airbag Peugeot 306 Autoliv 550 53 91 00 HC11E9 Airbag Peugeot 306 Autoliv 550 53 92 00 HC11E9	
	Airbag Peugeot 306 Autoliv 550 54 15 00 93c66 Airbag Peugeot 306 Autoliv 550 57 81 00 93c66	
		×
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3.7 Cluster Calibration

When a vehicle's modules are replaced with new or used parts they often require recalibration.



This special function allows adjusting of the mileage stored in the BSI device and the dashboard. Since the BSI is synchronized with the vehicle dashboard, the operation have to be performed on both BSI and dashboard or only to the BSI but with an option to disable dashboard synchronization selected. Up to now only the dashboards for the Peugeot 308 and Peugeot 407 with Siemens BSI have to be removed and adjusted manually with an EEPROM programmer by dump. You can set them to 0 km because once they are connected to the BSI they will get the correct mileage from it.

After Calibration is opened, select the vehicle and the unit. If you're not sure which is the car model or unit, you can leave it to "< AUTO DETECT >" and "< AUTO DETECT >". Click "Connect" to get odometer.

There are two options available:

- Disable dashboard synchronisation removes the synchronization between the dashboard and the BSI so only the BSI can be adjusted while the dashboard shows only BSI mileage independent of its own value.
- Write dashboard dashboard mileage is updated together with the BSI. Note that this option is available only for a few vehicles (Citroen C2, C5 II, C4 II, DS4, DS5, Peugeot 508) and it requires Vehicle model to be manually preselected!

This procedure like ReadSecurityCode procedure can take up to 15 minutes (45 minutes for C5 II dashboard), and in case of any interruption it can leave the car into service mode. That's why it has to be resumed as soon as possible to get the car into operational state.

You can protect vehicle battery by removing the wipers and low beam fuse as described in ReadSecurityCode procedure.

At the end of the procedure the following message appears. Note that it really important to switch OFF ignition and leave the cat intact for a few minutes for the new odometer to be really accepted by the car.After operation completed successfully you can click "Connect" button again to verify that the odometer is modified correctly.