

ABRITES DIAGNOSTICS TAG KEY TOOL



Important notes

The Abrites software and hardware products are developed, designed and manufactured by Abrites Ltd. During the production process we comply to all safety and quality regulations and standards, aiming at highest production quality. The Abrites hardware and software products are designed to build a coherent ecosystem, which effectively solves a wide range of vehicle-related tasks, such as:

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

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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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- Abrites assumes no responsibility for any damage resulting from the use, misuse, or negligent use of the hardware or any software application.

Safety information

The Abrites products are to be used by trained and experienced users in diagnostics and reprogramming of vehicles and equipment. The user is assumed to have a good understanding of vehicle electronic systems, as well as potential hazards while working around vehicles. There are numerous safety situations that cannot be foreseen, thus we recommend that the user read and follow all safety messages in the available manual, on all equipment they use, including vehicle manuals, as well as internal shop documents and operating procedures.

Some important points:

Block all wheels of the vehicle when testing. Be cautious when working around electricity.

- Do not ignore the risk of shock from vehicle and building-level voltages.
- Do not smoke, or allow sparks/flame near any part of the vehicle fuel system or batteries.
- Always work in an adequately ventilated area, vehicle exhaust fumes should be directed towards the exit of the shop.
- Do not use this product where fuel, fuel vapours, or other combustibles could ignite.

In case any technical difficulties occur, please contact the **Abrites Support Team by email at <u>support@abrites.com</u>.**

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List of revisions

Date	Chapter	Description	Revision
01.10.2015	ALL	Total update of the manual. Cloning added	2.2
13.09.2017	9	CAS4 Key Preparation update	2.3
23.08.2018	7	Added cloning of DST+ (G chip), M48 Fixed key and Temic 8C	2.4

1. Introduction

Congratulations for choosing our product!

PROTAG programmer together with the Abrites TagKeyTool software will allow you to use your Windows based PC as a powerful programmer for transponders and tool for programming of transponder based keys.

The PROTAG programmer is a hardware unit produced by Abrites Ltd. intended for programming of transponders via your AVDI interface. PROTAG programmer should be used with ABRITES software produced by Abrites Ltd.ABRITES is a trade mark of Abrites Ltd.

2. Getting Started

2.1 Scope of the manual

This document describes the software and hardware installation of your transponder programmer named "PROTAG Programmer" and corresponding software named "Abrites Tag KeyTool". The document is applicable for the transponder programmers from Abrites Ltd. - ZN002.

2.2 Your transponder programmer



2.3 System requirements

Minimum system requirements – Windows Vista+, Pentium 4 with 512 MB RAM USB port with supply 100 mA / 5V +/- 5%

2.4 Advice for using the ProTag programmer

It is very important to keep the ProTag programmer away from any metal objects or metal surfaces. Placing it near metal objects or on metal surfaces will interfere with the field of the programmer and cause errors when working with the programmer.

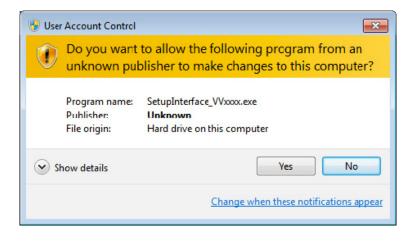
3. Getting Started

We suppose that your AVDI interface is configured and fully working. You can receive an optional separate installation file of your "Abrites Tag KeyTool" software for your AVDI and PROTAG programmer. The software is a windows executable file named 'SetupTagKeyTool_VVxxxx.exe' where VVxxxx is your interface identification number.

3.1 Software installation steps

Please start the executable file below to initiate the installation procedure and follow the onscreen instructions.

Depending of your operation system and settings you can be asked to confirm starting of installation procedure.



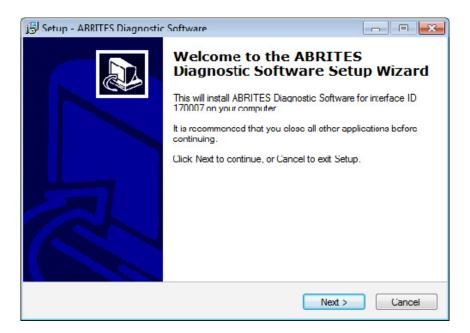
Press the "Next" button to proceed with the installation.

📴 Setup - ABRITES Diagnostic Software	
License Agreement Please read the following important information before continuing.	Ð
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.	
Licence Agreement	~
1. Subject Matter of Agreement	=
1.1. The subject matter of the agreement is the transfer of a non-exclusive and nor transferable right of use of the software and hardware supplied by Abritus 72 Ltd to the licensee. The functional scope of the software and hardware devices connected with it shall be taken from the performance specification.	
2. Scope of Licence	-
 I accept the agreement 	
I do not accept the agreement	
< Back Next >	Cancel

Read the license agreement and select "I accept the agreement" if you accepting all. Then press the "next" button.

If you not agree press cancel to interrupt installation procedure.

Press the "Next" button to proceed with the installation.



Press the "Next" button to proceed with the installation.

15 Setup - ABRITES Diagnostic Software	
Information Please read the following important information before continuing.	
When you are ready to continue with Setup, click Next.	
This will install following ABRITES products:	
ABRITES Tag Key Tool 5.1	
< Back Nex	t > Cancel

Press the "Next" button to proceed.

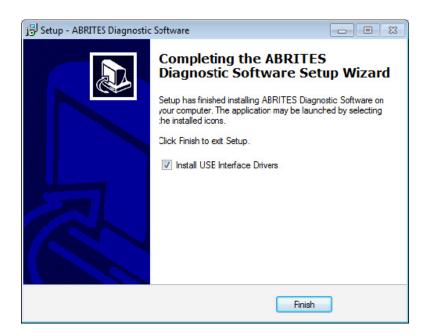
🕞 Setup - ABRITES Diagnostic Software	
Select Destination Location Where should ABRITES Diagnostic Software be installed?	
Setup will install ABRITES Diagnostic Software into the following To continue, click Next. If you would like to select a different folder, click	
C.\Program Files (x86)\ABRITES software for ID 170007	Browse
Savrogrammies (Cory Construction Software to in the Constru-	Browse
At least 305.8 ME of free disk space is required.	
< Baok Noxt >	Cancel

If you do not want desktop icons uncheck the checkbox about creation of icons. Press "Next" button to proceed.

🕄 Setup - ABRITES Diagnostic Software	- x
Ready to Install Sctup is now ready to begin installing ABRITES Diagnostic Software on your computer.	ð
Click Install to continue with the installation, or click Dack if you want to review or change any settings.	
Destination location: C:\Program Files (x86)\ABRITES software for ID 170007 Start Menu folder: ABRITES software for ID 170007	*
Additional tasks: Create desktop icons	
<	*
K Back Install Ca	ancel

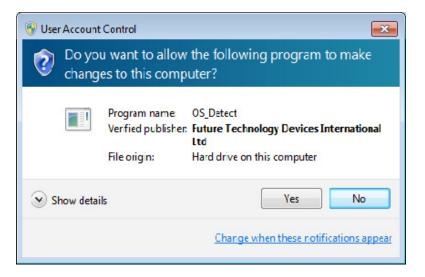
Press "Install" and wait until installation complete.

Be sure that the checkbox about the installation of the interface's USB drivers is set especially if you are installing for the first time. Press "Finish".



Depending on the setting of your operation system you can be asked to confirm installation of USB drivers.

Press "Yes".



Wait until the installation of USB driver finishes.

3.2 Connection of the PROTAG programmer to the interface

Once your AVDI interface is ready for work you can connect the PROTAG programmer to the PC through one of the available USB ports of your PC.

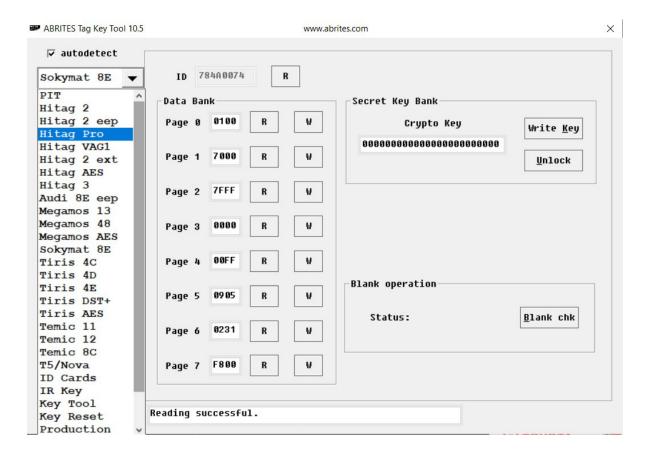
3.3 Starting of the software

When the programmer is ready and connected to the PC you can start some of the applications from your installation package. Each of these applications will notify you that the PROTAG programmer is found and will use PROTAG programmer when it is needed.

ABRITES Tag Key Tool 10.5		www.abrites.com	
⊽ autodetect Sokymat 8E ▼	ID 784A8874 R]	
A · B R· I · T E · S automptive solutions	Page Ø Ø100 R	Secret Key Bank Crypto Key 000000000000000000000000000000000000	Write <u>K</u> ey
	Page 1 7000 R	W	Unlock
Detect/ <u>R</u> ead	Page 2 7FFF R Page 3 0000 R	W	
<u>P</u> rogram	Page 4 00FF R	W	
<u>O</u> pen	Page 5 0905 R	W Ototooo	
Save	Page 6 0231 R	Status:	<u>B</u> lank chk
×	Page 7 F800 R	W	
	Reading successful.		

If you are using TAG Key Tool application will appear following screen:

From the drop down list you can select some of needed transponders types or utilities which you needed.



You have also the ability to access additional EEPROM memory of the keys, to prepare a key ready for starting of the vehicle using 'Key Tool', to prepare transponders ready for programming by diagnostic equipment – 'Production' and also you can prepare a 'cloning' of a key using function 'Key Cloner'.

4. TagKey tool – working with different transponders

Once an option is selected from the drop down list you will find a screen with options which allows you to read and program the fields of the transponder.

The main buttons named "Read/Detect" and "Program" are intended to read and program the whole memory of the transponder if that is possible.

Many types of transponders are read-only and the button "Program" is used to prepare a compatible transponder which can emulate the target transponder.

Bellow is the emulation list:

Megamos 13 can be emulated with T5 or PIT transponder.

Temic 11/12 can be emulated with T5.

Texas 4C can be emulated with TPX1 (available from version 5.2 of TagKey Tool) .

Texas 4D/4E can be emulated with TPX2.

HITAG-2 can be emulated with TPX3/TPX4 (available from version 5.2 of TagKey Tool) .

The small buttons "R" and "W" are intended to read or program only separate fields from the transponder memory.

When working with transponder please be informed about corresponding transponder specification. Many of the fields from transponder memory can be programmed only once.

It is very important to place the transponder when you read or program.

IMPORTANT:

Transponders or keys should be kept in the right place in the PROTAG programmer.

5. TagKey tool – Key tool andpreparation of a key by dump of immobilizer system

"Key tool" is a utility intended for preparation of a key when a dump from immobilizer system of the vehicle is present.

⊽ autodetect	Transponde	r Memory	ð		ieg	Mo	ode		М	PWM	Size	P₩S	- Conf	
Hitag Pro 🔻	Identifier		- R	s s	0	unde	efined			Г			R	
PIT ^	SKØ			s	•	undo	fined	_		-		-	W	
Hitag 2	240		6	- 11	•	unue	rineu			1		1		
Hitag 2 eep	SK1		- "	<u>s</u>	2	unde	fined			E				
Hitag Pro														
Hitag VAG1	SK2		-	S	3	unde	fined			E.				
Hitag 2 ext														
Hitag AES	SK3		- 1	S	4	unde	fined			Г		Г		
Hitag 3					_									
Audi 8E eep	TSI A			S	5	unde	efined			Г		Г		
Megamos 13														
Megamos 48	TSI B			S	0	unae	efined		22		1000	1	Manches	ter
Megamos AES	TOLO		21	s	7	undo	fined			-		-		
Sokymat 8E	TSI C			3	<u>ا</u>	unue	Tileu			1.1		1	• Biphase	ð
Tiris 4C							İ	. 1	-		, i			1
Tiris 4D	2K 000000	000000000	00000	9999999	10000	មេម	Aut	:h	De	faul	t		WR US	ER
Tiris 4E				00 00			00 00							
Tiris DST+	00000010 0			00 00						0 00				
Tiris AES	00000020 0		00 00	00 00	00 0	0 00	00 00	00	00 0	0 00				
Temic 11	00000030 0							 20000000 						
Temic 12	00000040 0										• • • •	• • • • •		
Temic 8C	00000050 0		00 00 AA AA	00 00 00 00			00 00							
T5/Nova	00000070 0		00 00	00 00										
ID Cards	<													> ``
IR Key														·
Key Tool														

From the list of transponders and functions of the main screen you can select this utility.

Once you select the "Key tool" option a screen will appear with a drop down list where you can select your model and immobilizer system.

rites - Key T	ool www.abrites.com -	
/ehicl	e Model	
		_
		-
Audi	A3. White Immobox 93C46. T5/TK5551 or PCF7935.	
Audi	A3 Micronas VDO CDC32xx - Key by Eeprom/flash dump	
Audi	A3 Micronas VDO CDC32xx - Dealer key by Eeprom/flash dump	_
Audi	A4. White Immobox 93C46. T5/TK5551 or PCF7935.	
Audi	A6. White Immobox 93C46. T5/TK5551 or PCF7935.	
Audi	A6 2004+. Key by dump of EZS - 9S12.ID 8E.	
Audi	A6 2004+. Dealer key by dump of EZS - 9S12.ID 8E.	
Audi	A6 2004+. Unlock key by dump of EZS - 9S12.ID 8E	
Audi	A8. White Immobox 93C46. T5/TK5551 or PCF7935.	
Audi	A8 2003+. KESSY 93C86. PCF7936 or remote key.	
Audi	A8 2003+. Dealer's key. KESSY 93C86.PCF7936.	
Audi	A8 2003+. Dealer's key by dump of ECU.PCF7936	
Audi	Allroad 2004+. Key by dump of EZS - 9S12. ID 8E	
Audi	Allroad 2004+. Dealer key by dump of EZS - 9S12.ID 8E	
Audi	Allroad 2004+. Unlock key by dump of EZS - 9S12.ID 8E	
Audi	Q7. Key by dump of EZS - 9S12.ID 8E	
Audi	Q7. Dealer key by dump of EZS - 9S12.ID 8E	
Audi	Q7. Unlock key by dump of EZS - 9S12.ID 8E	
Audi	TT Micronas VDO CDC32xx - Key by Eeprom/flash dump	
Audi	TT Micronas VDO CDC32xx - Dealer key by Eeprom/flash dump	
Audi	R8 Micronas VDO CDC32xx - Key by Eeprom/flash dump	
Audi	R8 Micronas VDO CDC32xx - Dealer key by Eeprom/flash dump	

rites - Key Tool	www.abrites.com	- 0	×
Vehicle Model			
			_
Andi Rind 7th	Company Committe Date from working how		·
	Component Security Byte from working key 03-2009). ECU ST77014. Texas 4D.		
	Immo Kostal 68HC911EA9. PCF7935		
-	tal. KESSY 93C86.PCF7936 or remote key.		
	tal.Dealer's key. KESSY 93C86.PCF7936.		
-	tal.Dealer's key by dump of ECU.PCF7936. CU Bosch M58BW0160. PCF7936		
BMW ALL BIRES. E			
BMW EWS1. PCF793	-		
2111 211021 202700	o 1EA9. PCF7935 or EML		
BMW EWS3. BOHC91.			
BMW CAS1. PCF793			
BMW CAS1. PCF793	-		
BMW CAS2. PCF793			
	1 F20 (2011-). PCF7939 or remote key.		
	5 F10/F11 (2010-). PCF7939 or remote key.		
	5 GT F07 (2010-). PCF7939 or remote key.		
	6 F12/F13 (2011-). PCF7939 or remote key.		
	7 F0x (2008-). PCF7939 or remote key.		
	X1 (2010-). PCF7939 or remote key.		
	X3 F25 (2011-). PCF7939 or remote key.		
	P100 MCU (5M48H mask). PCF7939 or remote	key	

In the list you can see the model, immobilizer module, type of memory where is stored key data and needed transponder/key for programming.

When a model is select your next step should be to load the file containing the immobilizer data (dump).

You can load the dump pressing button "Load Dump".

orites - Key Tool	www.Abritus72.com	
Vehicle Mo	del	
BMW ALL B	IKES. ECU Bosch M58BW0160. PCF7936	▼
	Use PCF7936 transponder	
Load	C Key 0	
Dump	C Key 1	
	C Key 2	
Prepare	C Key 3	
Key	C Key 4	
	C Key 5	
Exit	C Key 6	
	C Key 7	
	C Key 8	
	C Key 9	

When a dump is loaded you should select the exact key position you want to program.

You will have to to place then your transponder/key in the PROTAG programmer and to press the button "Prepare Key".

Once the programming of the transponder is finished, if it is needed, you will be asked for the file name of the modified dump.

BMW ALL BI	KES. ECU Bo	sch M58BW0	160. PCF7936	
	Use	• PCF7936 ti	ransponder	
Load	ି Key 0	Used.	PCF 7936 transponder	
Dump	ି Key 1	Used.	PCF 7936 transponder	
	ି Key 2	Used.	PCF 7936 transponder	
Prepare	· Key 3	Not used.	_	
Key	ି Key 4	Not used.	_	
	ି Key 5	Not used.	—	
Exit	ି Key 6	Not used.	—	
EAR	ି Key 7	Not used.	_	
	Key 8	Not used.	_	
	ି Key 9	Not used.	_	

NOTE: Because different programmers can read from the immobilizer dump differently – NORMAL or SWAPED, if after programming the transponder/key does not work, you will need to SWAP the dump and load it back into the software and program a new key or transponder.

6. TagKey tool – Production utility and preparation of a key ready for programming by diagnostic equipment

"Production" is a utility intended for preparation of transponders ready for programming by diagnostic equipment.

From the list of transponders and functions of the main screen you can select this utility.

From the screen "Production" utility you have to choose which type of transponder key you want to be prepared. Then simply place your transponder/key on the PROTAG programmer and to press the button "Program".

vrites - Transponder Production www.Abritus72.com	
Transponder Type	
ID46 KIA Remote key 7946.	-
ID46 KIA Kelliote key 7346. ID67 Master Key 1 Toyota. Texas 4D.	
ID67 Master Key 2 Toyota. Texas 4D.	
ID67 Master Key 3 Toyota. Texas 4D.	
ID67 Valet Key Toyota. Texas 4D.	
ID68 Master Key 1 Lexus. Texas 4D.	
ID68 Master Key 2 Lexus. Texas 4D.	
ID68 Master Key 3 Lexus. Texas 4D.	
ID68 Valet Key Lexus . Texas 4D.	
ID69 Yamaha. Texas 4D.(JMA TP31)	
ID70 Master Key 1 Toyota Europe. Texas 4D.	
ID70 Master Key 2 Toyota Europe. Texas 4D.	
ID70 Master Key 3 Toyota Europe. Texas 4D.	
ID70 Valet Key Toyota Europe. Texas 4D.	
TA1 Mercedes ML W163. PCF7935.	
TA10 BMW/Rover/Mini. EWS2 and EWS3 key 1. PCF7935.	-
ID70 Valet Key Toyota Europe. Texas 4D. TA1 Mercedes ML W163. PCF7935.	

When the programming of the transponder finishes, if it is needed, you will be asked for the file name of the modified dump.

rites - Transponder Production	www.Abritus72.com	— ×
Transponder Type		
ID69 Yamaha. Texas	4D.(JMA TP31)	T
(2005+), FZS1000 (20 TDM 500, T-MAX 600	ulldog (2005+), JFR 1300 (2005 005+), Majesty 400, MT-01, MT-), XJR 1300, X-MAX 125, XTR, X agstar (2004+), YZF-R1, YZF-R6	03, Prad 1000S, VS 1100 Dragstar
Transponder : Texas	s Crypto TIRIS 4D	
Program		Exit

Information about the needed transponder is displayed.

7. TagKey tool – Cloning of a key

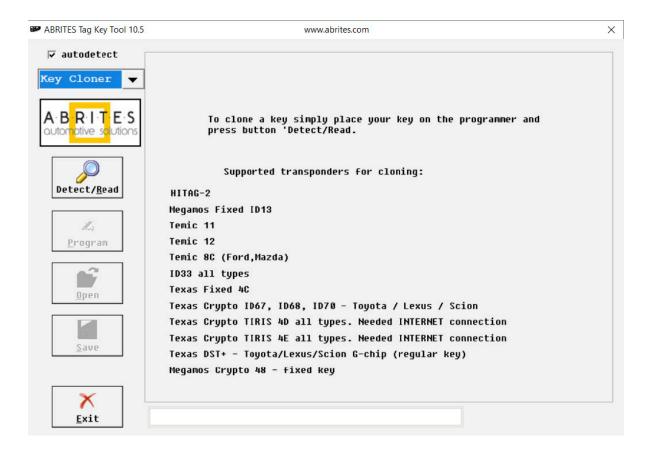
The "Key cloner" function allows you to prepare a clone of some keys. Supported keys/transponders for cloning currently are: Megamos 13, Temic 11, Temic 12, Toyota/Lexus/Scion Texas TIRIS 4D, all types of ID33, Megamos 48 FIXED KEY, DST+ (G chip) and Temic 8C

When a key is placed in the PROTAG programmer press the button "Read/Detect". The PROTAG programmer will read and identify the key and will then inform you what kind of transponder you need to place in the programmer to prepare a cloned transponder.

If your PC is connected to the Internet, you've the ability to clone all kind of TIRIS 4D transponders, not only Toyota/Lexus/Scion Texas 4D (ID67, ID68, ID70).

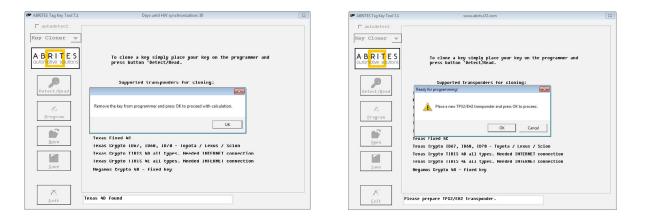
HITAG 2 transponders onto TPX3/ TPX4 cloning.

The Abrites PROTAG programmer now offers an easy cloning of HITAG 2 transponders onto TPX3 and TPX4 transponders. This function requires Internet connection



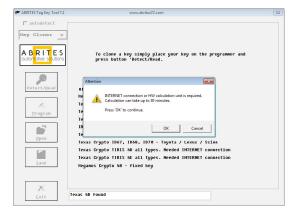
Cloning of 4D transponders

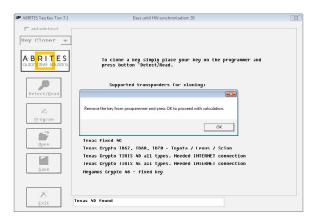
7.1.Offline

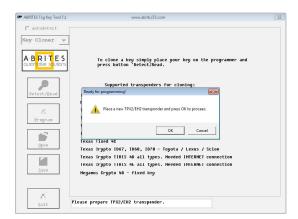


P ABRITES Tag Key Tool 7.1	www.abritus72.com	
<pre> autodetect Key Cloner ▼ </pre>		
	To clone a key simply place your key on the programmer and press button 'Detect/Read.	
	Supported transponders for cloning:	
Detect/ <u>R</u> ead	HITAG-2	
	Megamos Fixed ID13	
L	Temic 11	
<u>P</u> rogram	Temic 12	
7.25	Temic 8C (Ford,Mazda)	
<u> </u>	ID33 all types	
<u>O</u> pen	Texas Fixed 4C	
	Texas Crypto ID67, ID68, ID70 - Toyota / Lexus / Scion	
	Texas Crypto TIRIS 4D all types. Needed INTERNET connection	
Save	Texas Crypto TIRIS 4E all types. Needed INTERNET connection	
	Megamos Crypto 48 – fixed key	
X		
	Key is succesfully cloned.	
Exit		

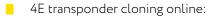
7.2.Online





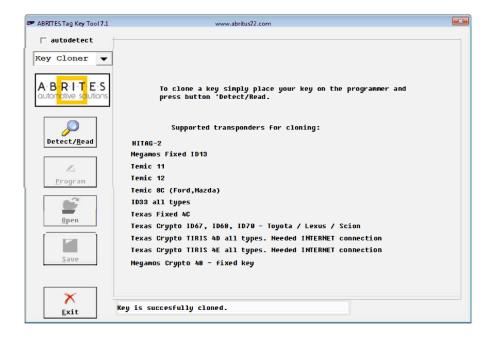


ABRITES Tag Key Tool 7.1	www.abritus72.com	
┌─ autodetect		
Key Cloner 🔻		
A B R I T E S automptive solutions	To clone a key simply place your key on the programmer and press button 'Detect/Read.	
	Supported transponders for cloning:	
Detect/ <u>R</u> ead	HITAG-2	
	Meganos Fixed ID13	
Li	Tenic 11	
Program	Tenic 12	
	Temic 8C (Ford,Mazda)	
	1033 all types Texas Fixed AC	
Open		
	Texas Grypto ID67, ID68, ID70 - Toyota / Lexus / Scion Texas Grypto TIRIS 4D all types. Needed INTERNET connection	
	Texas Crypto TIRIS 4D all types. Needed INTERNET connection Texas Crypto TIRIS 4E all types. Needed INTERNET connection	
Saue	Neganos Crypto 48 - fixed key	
X		
Exit	Key is succesfully cloned.	



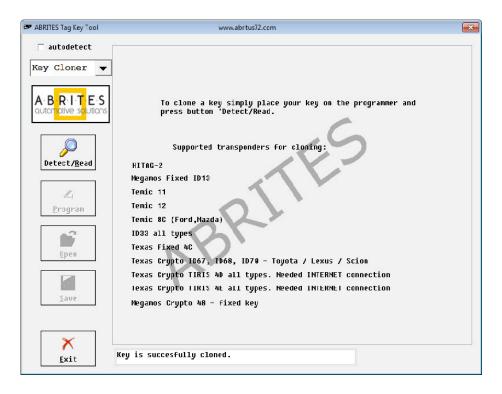
ABRITES Tag Key Tool	www.abritus72.com	X
Abdres ray ky rou autodetect Key Cloner V ABRITES Outor pive soutions Detect/Read L Program Den Save	To clone a key simply place your key on the programmer and press button 'betect/Read. Attention Image: state of the state of th	
X Exit	Texas 4E found	

5E transponder cloning online:

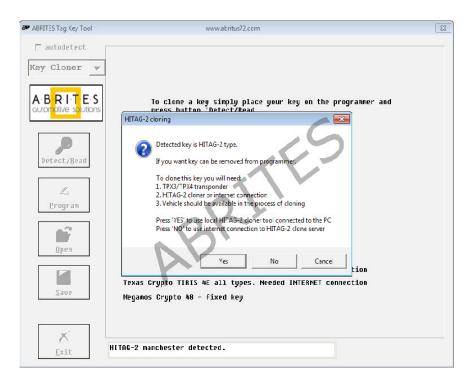


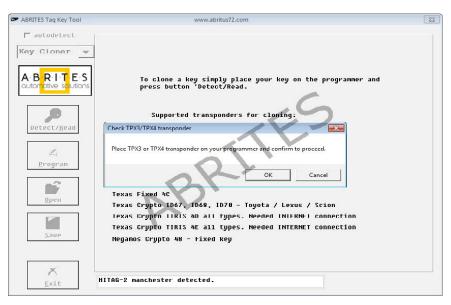
8C transponder cloning:

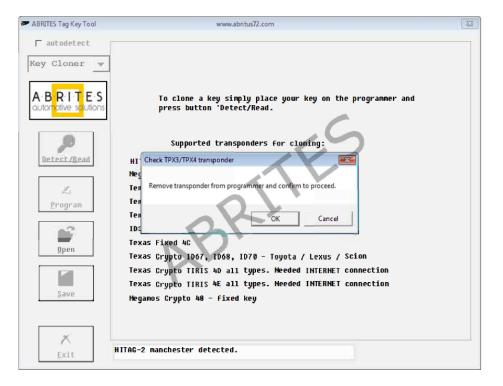
✓ ✓ ✓ ✓	ABRITES Tag Key Tool	www.abritus72.com	23
	Key Cloner	press button 'Detect/Read. Supported transponders for cloning: HIT Ready for programming! Place a TK5561 transponder and press OK to proceed. Tem Tem Tem Tem Tem Tem Tem Tem	
Exit Temic 8C found	X	Temic 8C found	



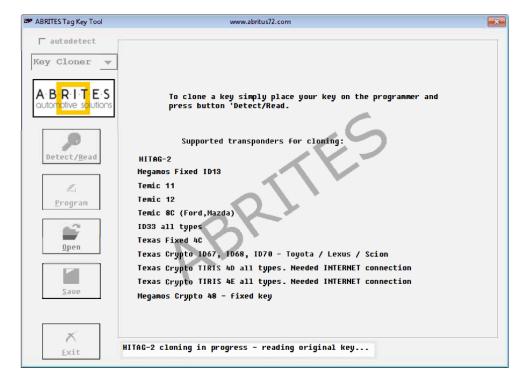
Hitag 2 Transponder Cloning

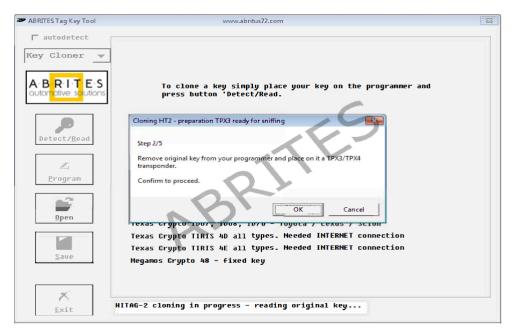


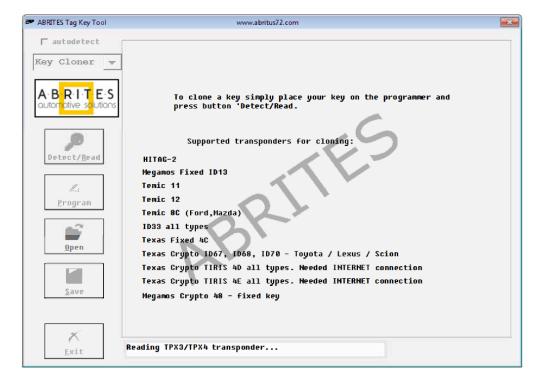


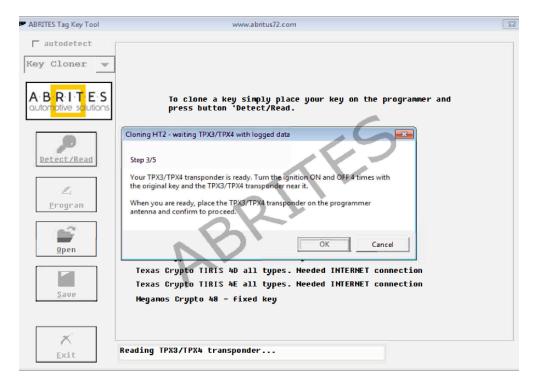


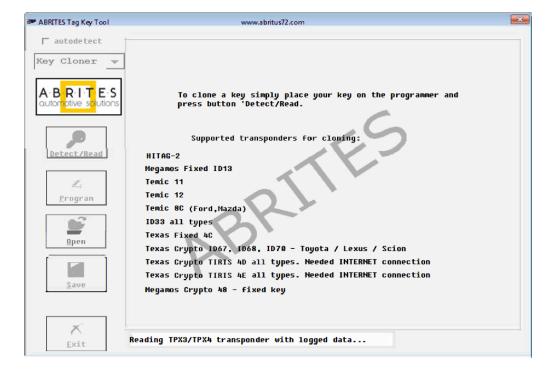




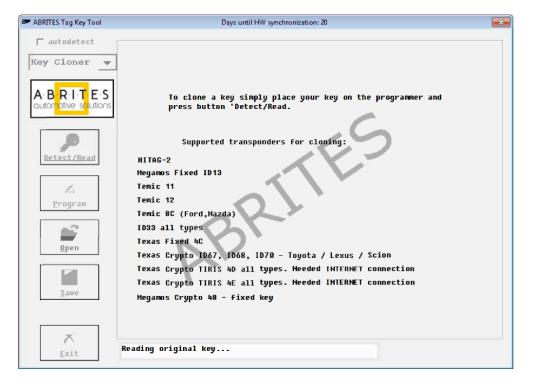




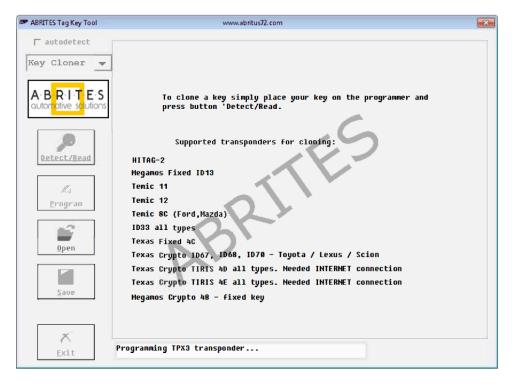


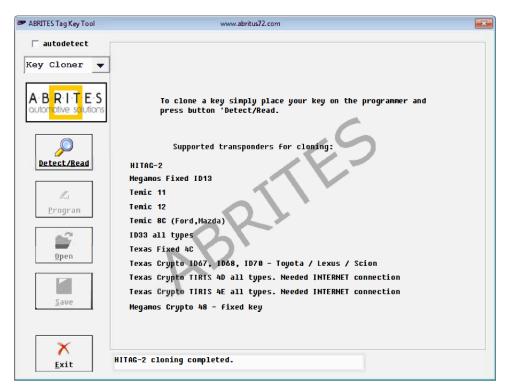


ABRITES Tag Key Tool	Days until HW synchronization: 20	23
ABRITES Tag Key Tool autodetect Key Cloner A·B R·I·T E·S automotive solutions	To clone a key simply place your key on the programmer and press button 'Detect/Read.	
Save	Negamos Crypto 48 - fixed key	
Exit	Reading TPX3/TPX4 transponder with logged data	



ABRITES Tag Key Tool	Days until HW synchronization: 20	23
ABRITES Tag Key Tool A BR 1-T E S autonotive solutions Letect/Read L Program	To clone a key simply place your key on the programmer and press button 'Detect/Read. Cloning HT2 - data ready for programming HITAR Hegan Tenic Tenic Place the TPX3/TPX4 transponder for final programming. Tenic	2
Open	ID33 Texas Texas Texas Crypto ID67, ID68, ID70 - Toyota / Lexus / Scion Texas Crypto TIRIS 4D all types. Needed INTERNET connection Texas Crypto TIRIS 4E all types. Needed INTERNET connection Megamos Crypto 48 - fixed key	
× Exit	Reading original key	





8. Porsche Panamera key by dump

- Read the 9S12XDP512 or 9S12XEP100 EEPROM using a programmer.
- Load the EEPROM dump in the Tag software and choose a position where you would like to write the new key.

Abrites - Key Tool		www.abrite	es.com	
Vehicle Mo	del			
Porsche Pa	namera (970)		•
r				
Load	ି Key <u>0</u>	Used.	ID: D4E4A932	
Dump	ି Key <u>1</u>	Used.	ID: 69F4A932	
	• Key <u>2</u>	Not used.	-	
Prepare	⊂ Key <u>3</u>	Not used.	_	
Key	○ Key <u>4</u>	Not used.	_	
	С Кеу <u>5</u>	Not used.	-	
Exit	С Кеу <u>6</u>	Not used.	-	
-2.4	С Кеу <u>7</u>	Not used.	_	

Place a new key in the PROTAG programmer and press the "Prepare key" button.

brites - Key Tool		www.abrite	es.com	
Vehicle Mod	lei			
Porsche Pa	namera (970)		•
Load	ି Key <u>0</u>	Used.	ID: D4E4A932	
Dump	ି Key <u>1</u>	Used.	ID: 69F4A932	
<u></u>	ି Key <u>2</u>	Used.	ID: 934D0532	
Prepare	ି Key <u>3</u>	Not used.	_	
Key	⊂ Key <u>4</u>	Not used.	-	
	с Кеу <u>5</u>	Not used.	_	
Ewit	с Кеу <u>6</u>	Not used.		
E <u>x</u> it	с Кеу <u>7</u>	Not used.	_	

- The software will modify the dump and the user should save it to a new file.
- The modified dump needs to be written back to the Motorola MCU in the D flash section and the car will start.

9. CAS4 by dump

In order to prepare a CAS 4 key by dump you need to:

- Read the XEP100 MCU's EEPROM and save it to a file.
- Load the file into the TAG key tool and select the correct key position.
- Use PCF7939 transponder or a new remote key.
- Prepare the key.
- You will be asked to either read the working key or enter the DME/DDE ISN. Please use the checkbox option according to the situation (Working key or DME/DDE ISN). Once the option is chosen, please use the "Prepare Key" button to prepare the key for programming.

ABRITES Tag Key Tool 10.0	www.abrites.com		×
Abrites - Key Tool	www.abrites.com		
Vehicle Model			
BMW CAS4 Ser	ies 5 F10/F11 (2010-). PCF7939 or remote	key.	•
✓ The car has working key		Read	l Key
Load	C Key 0 Used. ID: 138C0032		
Dump	C Key 1 Used. ID: 48930032		
	ି Key 2 Not used. —		
Prepare	ି Key 3 Not used. —		
Key	ି Key 4 Not used. —		
	Key 5 Not used. —		
Exit	Key 6 Not used. —		
LAN	$^{\circ}$ Key 7 Not used. —		
	🛇 Key 8 Not used. —		