User manual

VAG-Prog 2012

VAG P/N 1K8920871 VIN XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	TAG-Prog for Windows		
VIN XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	VAG P/N	1K8920871	
SW-ID VD1-04801.07.0973927137 ASAM ID EV_Kombi_UDS_VDD_RM09 ECU Type VD0 UDS NEC/Renesas V850 ECU SW Version RM3546 0922 HL ECU SW Date 29-01-2009 Serial memory backup Set odometer Vite memory Set odometer 0940 10 01 EA CE AA FA 00 91 02 11 06 09 00 20 57 FF 0940 10 01 EA CE AA FA 00 91 02 11 06 09 00 20 57 FF 0940 10 01 EA CE AA FA 00 91 02 11 06 09 00 00 00 00 00 00 000 00 00 00 00 00 00 00 0950 FF	VIN	XXXXXXXXXXXXXXXXX	
ASAM ID EV_Kombi_UDS_VDD_RM09 ECU Type VDO UDS NEC/Renesas V850 ECU SW Version RM3546 0922 HL ECU SW Date 29-01-2009 serial nemory backup Feb manory Write manory Patro editor To 0930 FF	SW-ID	VD1-04801.07.0973927137	
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	50 90 30 90 110	0930 FF FF	

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1. Introduction

Thank you for purchasing VAG-Prog program, professional OBD-II VW/Audi/Skoda/Seat ECU configuration programming tool. In case of any questions or problems please do not hesitate to contact us at <u>support@secons.com</u> or use the form at <u>www.vagprog.com</u> where you can also find further information about the program and updates.

2. Installation

- 1. Run installation program VAGProg2012Setup.exe
- 2. Please read license agreement and if you agree, click on "I agree" button. In case you do not agree with the license agreement, please return the product to the place of purchase for a full refund.

🗑 ¥AG-PROG 2012 Setup	
License Agreement Please review the license terms before installing VAG-PROG 2012.	
Press Page Down to see the rest of the agreement.	
License Agreement - automotive products This is a legal agreement between yourself and SECONS s.r.o., address: Za Zám 745/13, Praha 5, 158 00, Czech Republic, EU, IC 26477394 (licence granter). IF Y CLICK THE "ACCEPT" OPTION OR INSTALL THE SOFTWARE PRODUCT ACCOMPA THIS AGREEMENT (THE "SOFTWARE") YOU WILL BE BOUND BY THIS AGREEMENT are not required to accept these terms but, unless and until you do, the Software install and you will not be authorized to use the Software. I. Grant of License 1. The licensor hereby grants to you a non-exclusive and non-transferable license the Software however only in executable or object code form solely for your pers	eckem YOU NYING , You e will not e to use conal or
If you accept the terms of the agreement, click I Agree to continue. You must acc agreement to install VAG-PROG 2012. Nullsoft Install System v2:46	ept the Cancel

3. In next step please select what parts of the program you want to install:

🌍 VAG-PROG 2012 Setup										
Choose Components Choose which features of VAG-PROG 2012 you want to install.										
Check the components you wa install. Click Next to continue.	nt to install and uncheck the com	ponents you don't want to								
Select components to install:	✓ VAG-PROG 2012 ✓ Create Desktop Icon ✓ Install uOBD Drivers	Description Position your mouse over a component to see its description.								
Space required: 1.4MB										
Nullsoft Install System v2,46 ——	< <u>B</u> ack	Next > Cancel								

4. Please select target directory for program installation:

😽 VAG-PROG 2012 Setup	
Choose Install Location Choose the folder in which to install VAG-PROG 2012.	
Setup will install VAG-PROG 2012 in the following folder. To install in a different folder, o Browse and select another folder. Click Install to start the installation.	click
Destination Folder C:\Program Files\WAG-PROG2012 Browse	
Space required: 1.4MB Space available: 18.3MB	
Nullsoft Install System v2.46	ancel

If you see Windows message asking whether you want to install unsigned drivers, please choose "Install this driver software anyway" (Windows Vista / 7) or click on "Continue" (in Windows XP).

\bigotimes	Windows can't verify the publisher of this driver software	Hardware Installation	't verify the publisher of this driver software
۲	 Don't install this driver software You should check your manufacture's website for updated driver software for your device. Install this driver software anyway Only install driver software obtained from your manufacture's website or disc. Unsigned software from other sources may harm your computer or steal information. 	The software you are installing for this hardware: ELM-USB Interface has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.) Continuing your installation of this software may impai or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.	tall this driver software check your manufacture's website for updated driver software rice. is driver software anyway driver software obtained from your manufacture's website or red software from other sources may harm your computer or steal
		<u>Continue Anyway</u> <u>S</u> TOP Installation	

Microsoft® Windows® will install all drivers automatically when MicroOBD interface is plugged in.



3. Program usage

- 1. Install VAG-Prog according to instructions in previous chapter.
- 2. Connect the MicroOBD interface into your computer.

LED should start blinking after connecting the MicroOBD to the computer, LED is orange during communication and red after error or during firmware upgrade.

- 3. Connect the MicroOBD interface into the OBD-II plug in the vehicle.
- 4. At the top right corner "Communication" select device you want to connect with.Click on *Connect* if you want to connect to device. For disconnection click on *Disconnect*.

🛞 VAG-Prog for Windows	<u>×</u>
VAG P/N VIN SW-ID ASAM ID ECU Type ECU SW Version ECU SW Date	1K8920871ConnectXXXXXXXXXXXXXXX□ashboard ▼VD1-04801.07.0973927137□rogramming ▼EV_Kombi_UDS_VDD_RM09□ Connect via K-LineVD0 UDS NEC/Renesas V850CancelRM3546 0922 HL□ Connect via K-Line29-01-2009□ Connect via K-Line
Serial memory backup	e memory Edit memory Edit memory Upgrade flash Set odometer Value Perform Action Wale Perform Action Perform Action Perform Action Perform Action Perform Action Edit memory Value Perform Action Edit memory Value Perform Action Edit memory Value Perform Action Perform Action Perform Action Perform Action Edit memory Perform Action Perform Action Edit memory Perform Action Perform Action Edit memory Perform Action Perform Action Perform Action Perform Action Edit memory Perform Action Perform Action
	Reading - offset 0x0180

Now it is possible to use programming and diagnostic functions described in this chapter.

Before you start using the program , close all running programs, VAG-PROG requires enough time for processor for communication with low latency.

Note: Before any operation with control unit is recommended to save a backup of the original

4.3 Edit memory function

This function is accessible from main menu by clicking on "Edit memory" button. With this feature you can edit data stored in ECU memory.

contents of memory to the disk in case of recovery.

connect to and type of diagnostic session. "Programming" session is

always used for control unit programming functions, in some cases diagnostic functions are also available in programming session. On the other side diagnostic session can be used for diagnostic operations such as deleting the error memory, login, programming transponders, etc. It is impossible to make programming operations in diagnostic session (not even retrieving vehicle pin code). And also programming session may not be accessible for diagnostic functions (key coding, etc.).

At first it is necessary to choose a type of control unit you wish to

The immobilizer control unit and the dashboards are usually implemented in a single control unit, called KOMBIINSTRUMENT (there is also CAN-BUS gateway very often). It is an instrument panel. Programming is always performed by dashboard control unit, and in some cases there is coding of keys, etc.

The program allows you to select the connection only through the bus ISO9141 (K-Line). This is especially suitable for older control units that support the diagnostic of the K-Line, but programming functions are available only via K-Line.

4.1 Read memory function

This function allows you to read data from the control unit's memory and saves it to disk. This is suitable mainly for storing backup data in case of erroneous reprogramming, or when editing in an external application.

Note: Before any operation with control unit is recommended to save a backup of the original contents of memory to the disk in case of recovery.

4.2 Write memory function

It allows you to write data to the memory of control unit from the file to disc.

VAGProg user manual



Write memory

Read memory



www.vagprog.com



Dat	a edit	or																×
0	930	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	
0	940	10	01	ΕA	CE	AA	FΑ	00	91	02	11	06	09	00	20	57	$\mathbf{F}\mathbf{F}$	W.
0	950	FF	$\mathbf{F} \mathbf{F}$	FF	ΕF	ΕF	01	01	07	09	03	00	00	00	00	00	00	
0	960	00	35	33	33	35	35	31	39	32	30	31	31	31	30	30	36	.533551920111006
0	970	30	39	30	35	34	30	35	37	36	33	43	30	34	30	37	00	0905405763C0407.
0	980	00	00	00	00	00	41	32	43	35	33	33	35	33	30	34	32	A2C53353042
0	990	30	30	34	34	31	35	30	56	44	31	2D	30	34	38	11	30	0044150VD1-048.0
0	9A0	30	30	30	30	30	30	30	37	33	39	32	37	31	33	37	63	000000073927137c
0	9B0	01	07	09	ΕF	ΕF	ΕF	11	06	09	00	00	00	00	00	00	00	
0	9C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0	9D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	
0	9E0	00	00	00	00	00	00	00	00	41	30	34	30	34	30	41	32	A04040A2
0	9F0	43	35	33	33	35	35	31	39	32	5F	5F	5F	43	30	34	30	C53355192C040
	A00	37	41	32	43	35	30	30	30	30	30	30	30	5F	5F	5F	41	7A2C50000000A
0	A10	30	30	30	30	00	00	00	00	00	00	41	41	00	00	00	00	0000AA
0	A20	00	00	00	00	00	00	00	45	56	5F	4B	6F	6D	62	69	5F	EV_Kombi_
0	A30	55	44	53	5F	56	44	44	5F	52	4D	30	39	00	00	00	00	UDS_VDD_RM09
0	A40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	FF	00	
U	A50	55	00	00	00	00	00	00	00	00	58	30	30	31	00	00	00	UXUU1
0	A60	00	00	00	00	00	00	00	00	2D								
0	A'70	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	UO	UO	UO	UO	
Ľ																		
	Sa	ave to	ECU															Cancel

Note: Before any operation with control unit it is highly recommended to save a backup of the original contents of memory to the disk for possible recovery.

4.4 Diagnostic functions

4.4.1 Login

This function performs ECU security login. Enter PIN code of diagnosed ECU into the field.

rogramování řídící je	dnotk	φ
Login		•
Login Nastavení jazyka		
Přizpůsobení ECU () Učení klíčů	kanál	50)
		52

4.4.2 Language setting

You can set language of dashboard with graphic display. Into the field, type a value for desired language (1 = German, 2 = English, 3 = French 4 = Italian 5 = Spanish, 6 = Portuguese, ...).

4.4.3 ECU adjustment (channel 50)

The function performs adjustment of engine control unit, immobilizer and possibly fuel pump. Into the field, type a PIN code of adapted control unit(when diagnosing dashboard, type PIN of engine ECU, and vice versa).Before this function the control unit must be authorized using "login" function.

4.4.4 Key coding – KW1281/KWP2000 control units

Specify total number of coded keys into the field. The first coded key must be in the ignition. All existing keys will be deleted. Prior to this function, the ECU must be authorized using "Login" function.

Turn the ignition off, insert next key and turn the ignition on. Immobilizer warning lamp should light for about 2 seconds. Repeat this step for each additional key.

4.4.5 Key coding – VWTP 2.0 (2006 +) control units

Vehicle immobilizers since 2006 (in VDO dashboard) require a dealer (pre-programmed) transponder chip. It is possible to read data required for pre-programming using "Read security data of key". It is necessary to program the data into transponder using third-party tool.

ecurity data	ponent Security 7 Bytes	
Component security: B0 80 1E 12 A4 B3 6F Megamos crypto: P06: F663 P07: 25CD P08: 7848 P09: 0D01 P10: 0 OK	CCDD P11: AABB	Brand C None C Audi
	BO 80 1E 12 A4 B3 6F	C Seat Skoda C VW

left: retrieved data for Megamos crypto transponder, right: programming in to the chip.

After programming the data security keys it is possible to make programming by VAG-PROG to the control unit. Is necessary to read out the ID of the transponder and add it into the valid keys with relevant function:

	Edit	key IDs 🛛 🗙
		+
_ ID	770	8738C6 126356
Word 2 - 3 77 87 38 C6	Read	
	c	ancel - Save

left: chip ID reading, right: VAGProg has programed chip ID to the immobilizer

After the restart of control unit should be the transponder added and immobilizer unlocked.

4.4.6 Key coding- control unit UDS (2009+)

Anti-theft vehicles from 2009 (in the instrument cluster VDO) also require the dealer (preprogrammed) chip transponder, but data are displayed within the format of the "Word" (words) Megamos crypto transponder. The important data for the pre-programing is possible to read by "Read Data security key". This data is required third-party tool programmed into the transponder directly to each "word" of the encryption key:

Word 9	2D 0E	Write
Word 8	4F E1	Write
Word 7	16 87	Write
√ord 6	3C F5	Write
Word 5	D4 2E	Write
Word 4	9E 7A	Write
9IN		
Vord 11	AA BB	Write
Vord 10	CC DD	Write
	Word 8 Word 7 Word 6 Word 5 Word 4 PIN	Word 8 4F E1 Word 7 16 87 Word 6 3C F5 Word 5 D4 2E Word 4 9E 7A PIN Word 10 CC DD

left: readed data for transponder Megamos pro immo 2009+, right: programming to the chip.

Key transponder ID adding to the control unit is the same like in control unit VWTP 2.0 from 2006.

4.5 Function for programming the control unit

It allows you to program control units for predefined functions, for example setting the odometer.



Before setting the odometer, you must first enter a value.

Note: Before any operation with control unit is recommended to save a backup of the original contents of memory to the disk in case of recovery.

When reading the security code is displayed waiting dialog that appears after 5 minutes of the requested information

Car ECU security (PIN) code	×	Bezpečnostní (PIN) kód řídicí jednotky	۱
The requested information will be displayed after security delay.		ECU PIN kód:	
Time remaining to wait:4:57		01055	
Abort security timer		Zavřít	

5. Supported control units

A current list of supported control units is available at <u>http://www.vagprog.com/supported_ecus</u>

5.1 Dashboards

5.1.1 Dashboard TRW Golf III

Unable to diagnose memory is necessary to reprogram the EEPROM programmer.

5.1.2 Dashboard UKNSI

It can be diagnosed, transcription EEPROM is not possible after diagnosis

5.1.3 Dashboard VDO KW1281

It can be diagnosed, read pin, serial memory programming and rewrite the odometer.

5.1.4 Dashboard VDO KW1281 VW Polo, Škoda Roomster, Fabia 2007+, Superb 2007

When the panels are connected, the symbol "DEF" appears on the small display. To delete the temporary "errors" just unplug the battery or restart the computer.

5.1.5 Dashboard VDO Audi

It can diagnose, read pin serial memory programming and rewrite the odometer.

If there is an error with communication, unplug the battery for a while to restart the control unit.

Newer models use encrypted EEPROM. The contents of EEPROM memory readed with this program can not be entered into the universal programmer.

5.1.6 Dashboard MotoMeter a starší Bosch

It can diagnose, read pin serial memory programming and rewrite the odometer.

(Initiating of communication may take up to 45min (detection of secret code).

5.1.7 Dashboard Bosch V850 (Bosch RB4, RB8)

Application: VW Golf IV, VW Passat, VW Touareg, Porsche Cayenne.

It can diagnose, read pin, serial memory programming and rewrite the odometer. The entire serial memory is not stored in reading, the control unit does not read the security field (pin code can be read).

The control unit encrypts part of the serial memory , so you can not use a stored " dump" (content) to program the programmer. Program VAG -Prog saves unencrypted content in the first part (0x000 - 0x360), encrypted for any manual programming to the second part (0x400 - 0x7FF). When writing registers only the first part .

The control unit is in communication switched to the "bootloader "mode, which causes the malfunction indicator lights, displays and indicators. After the end of the communication unit is restarted. If it occurred during communication interruption, it is necessary to disconnect the battery while the vehicle to restart the instrument.

If the communication fails, the control unit will remain in service mode and the vehicle, among other things can not be started. Disconnect the battery of vehicle to restart the controller.

If lights up on the instrument panel light " DEF", it is necessary to rebuild procedure .



5.1.8 Dashboard Jaeger/Magneti-Marelli HC08

It can diagnose and rewrite the odometer.

For the instrument Audi TT (esp. software version 7.62 High-Line) can only be set to "0". Specific desired value can then be programmed using standard diagnostic VAG across the channel number (doplnit)

5.1.9 Dashboard Jaeger/Magneti-Marelli HC11

The control unit is a very rare and is not supported.

5.1.10 Dashboard Magneti-Marelli M73 (CAN-BUS)

Some versions of the instrument are supported, can not read or write serial memories, only to set the odometer.

5.1.11 Dashboard VDO CAN

It can diagnose, read pin serial memory programming and rewrite the odometer. Panels are supported until 09/2006 (not encrypted EEPROM) and since 09/2006 with the exception of a few "mini-dot" version.

Most of these panels, especially since MY 2006 require for successful programming and immobilizer properly configured valid key in the lock. If this condition is not met, the program will fail. In this case, you have to disassemble the control unit, re-program EEPROM memory with virginised data and retry the operation again. It is not possible to exchange EEPROM contents between instrument clusters as the EEPROM is encrypted with unique key stored in microcontroller (Micronas CDC ARM).

If the communication fails, the control unit can remain in service mode and the vehicle, among other things can not be started. Disconnect the battery while the vehicle to restart the control unit.

5.1.12 Dashboard Visteon CAN

It is possible to diagnose, read pin, serial memory programming.

5.1.13 Dashboard VDO UDS "NEC V850" (2009-)

It is possible to diagnose, serial memory programming., read vehicle security data (PIN and component security), rewrite the odometer, program key transponder IDs.

All of these instrument clusters require for successful programming and immobilizer properly configured valid key in the lock. If this condition is not met, the program will fail. In this case, you have to disassemble the control unit, re-program EEPROM memory with virginised data and retry the operation again. It is not possible to exchange EEPROM contents between instrument clusters as the EEPROM is encrypted with unique key stored in microcontroller (Micronas CDC ARM).

5.1.14 Dashboard JCI/JohnsonControls UDS "NEC V850" (2010-)

It is possible to perform serial memory programming.

5.2 Immobilizér

The immobilizer control unit is usually part of instrument cluster (KOMBIINSTRUMENT) in most vehicles. Programming functions takpe place in instrument cluster/dashboard control unit, which implements immobilizer functions.

There is an exception, older vehicles equipped with so called "immobox" or vehicles with smart key (kessy).

5.2.1 Siemens Immobox

It is possible to diagnose and read pin with a valid key.

5.2.2 Megamos Audi

It is possible to diagnose, read pin without having a valid key, EEPROM reading and writing.

5.2.3 VW LT

It is possible to diagnose, read pin.

5.3 Engine control units

5.3.1 Diesel Bosch EDC15P+, EDC15VM+

Program promotes reading EEPROM of the ECU, incl. programming and setting the odometer. After the programming is necessary to turn off the ignition for 20 seconds

5.3.2 Diesel Bosch EDC16

Program supports setting the odometer and reading PIN code.

In some EDC16 connection is required after the K-Line, along with other CAN. It does not work if the diagnostics CAN-BUS, feature by selecting "Join the K-Line"

🔲 Connect via K-Line

5.3.3 Petrol Siemens SIMOS 3xx/7xx

Program promotes reading EEPROM of the ECU, incl. read PIN code etc..

5.4 Airbag control units

5.4.1 Siemens airbags

Supported EEPROM read and write, delete "crash" data (record of impact). After the programming is required for about 20 seconds to turn off the ignition.

VW5 airbags fitted to some cars Škoda Fabia can not be edited via OBD-II connector, but they need a direct connection to the airbag connector. Airbags VW5 require direct memory access connections to K-Line, but in these cases the diagnosis through CAN-BUS, which advanced features are supported.

Did you know that airbags Octavia II (Siemens VW8) allow 3x clear crash data using standard diagnostic functions erasing fault memory?

5.4.2 Bosch airbags

Supported read and write EEPROM, clear crash data.

6. Settings

Dialog settings can be selected from the main menu, press "Settings". If the Micro-OBD interface is connected, avalaible licenses and number of the cable are automatically loaded.



Settings		×	
Interface Serial number	License	Defeat	
E2B1 321	VP2008	Interface test	
OK	VP2009	Firmware upgrade	
Firmware version v0.1.6, Dec 03 2009	VPZUIZ	License update	
Driver version		Device manager	
1 2.2000		Power options	
Communication ✓ Check battery voltage before connecting Additional delay before 5baud ack Update ✓ Send bug reports to the manufacturer ✓ Check battery voltage before connecting Language / Sprache English ✓			
Auto-save Automatically save EEPROM backups to this directory: C:\Documents and Settings\mhi\My Documents\VAG-PROG			
OK Cancel			

6.1 Interface test

Use the "Test uOBD interface" to start the control panel Micro-OBD interface in which the interface can be tested, to see the available licenses and to update the firmware or recording license.

6.2 Activate licence

To update the license there must be connection to the Internet. Press the "Upload License" button to download the current license from the Internet and load it into the cable.

6.3 Upgrade firmware

The "Upgrading the firmware" is active when connected MicroOBD interface contains outdated firmware. We recommend in this case, the press firmware update, which will automatically upload the new version.

When updating the firmware, never disconnect the Micro-OBD interface from the computer!

6.4 Device manager

The "Device Manager" runs the same name component of Microsoft Windows that you can use to solve problems with drivers, etc.

6.5 Power options

The "Power Options Properties" control panel starts the computer's power settings. You can set battery saving, etc. Some computers use a separate application to the management, in which case you need to change the settings provided by your computer manufacturer. The correct setting is very important for the operation of the program! We recommend that you configure the computer to never fall asleep, disconnect the individual peripherals, and even display.

VAG-PROG Program requires while the programming of controllers turned off power management.



6.6 Communication settings

Communication		
Check battery voltage before connecting		
Additional delay before 5baud ack	30	ms

Check battery voltage before connecting allows you to turn off battery measuring for the first generation of MicroOBD interfaces that do not support this feature.

Additional delay before 5baud ack sets timing parameter for vehicles that do not conform to ISO9141 standard (such as Skoda Fabia). Due to inconsistency of Microsoft Windows API functions for real-time control it is not possible to set this value automatically. Additonally some computers (mainly early netbooks) do not provide sufficient computing power to reliably establish connection. If you have problems with connecting to control units, please modify this value upwards or downwards, until the program does not reliably connects to the control unit.

The default value is 30 ms, in case of doubt about the correctness of your settings, return to default values.

6.7 Language

Use this option to change the language

6.8 Automatic backups

The program allows you to automatically save a backup memory when you read, you are writing or editing a memory controller. In the settings you can change the directory in which to store all backups. It can be easily viewed using the "Automatic backup" in the main menu of the program.

7. Problems

The issue of direct memory access is very complicated. Program VAG-Prog must be aware of all possible versions of software controllers. Our aim is to cover the widest possible range of versions and types of control units.

However, sometimes it can happen that the program will not work properly and report an error. Oftentimes, the manufacturer of such atypical installed in the vehicle control unit which is normally absent. If the error persists, please contact us and we will do our best to correct errors or extension support.

7.1 Communication scamming

At runtime, always close all other applications, especially web browser, etc. VAG-Prog requires communication with low latency enough processor time when running other programs can lead to disintegration of communication or other problems. Also, make sure that you have the latest version of VAG-Prog.

If you will not help close all applications, it is possible that different processes are still running "in the background", eg monitoring printers, instant messenger, etc. Please uninstall or temporarily disable such programs.

7.2 Unable to establish communication with CU Fabia/Polo/Roomster

If you are unable to communicate with the control unit in Fabia / Roomster / VW Polo, this error is usually caused by applications running in the background or improper or inadequate SIS700 chipset hardware configuration. With the control unit test several times.

7.3 "DEF" lights up on the display

U VDO instrument panels since 2008, it is necessary to reset the control unit selecting from the menu operations.

If this is the panel Bosch RB4 / RB8 (Audi A4/S4 / ...) with encrypted EEPROM, understand this chapter recovery routine Bosch RB4.

7.3.1 Restoring Bosch RB4

This procedure is used to remove defects " DEF" on panels Bosch V850 / RB4 / RB8 with encrypted EEPROM . This error is apparent by reading . " DEF " in the odometer and is caused by a breach of EEPROM memory , especially the encrypted part. This situation may rarely occur for many different reasons.

-Programování řídící jedn	otky
Nastavit km	•
Nastavit km	
Procedura obnovení	
Císt PIN	
Smazání pamětí	
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Before performing a complete memory back up . From the menu , select " restore procedure " in the input field, type the address 4F read out from memory , or " 0C " , or otherwise after consultation with the manufacturer. After starting the operation will reboot the controller and the disappearance of the symbol " DEF" , erase the fault memory.

If the restore procedure does not work, it is necessary to erase the EEPROM programmer, or the " Erase Memory". This function will erase the entire EEPROM, therefore all configuration data incl. immobilizer etc. Before erasing try to save a backup of EEPROM program memory VAG -PROG, or at least the programmer. If you do not have a backup saved by VAG -Prog, you will need to retrieve data from another instrument panel and make a complete coding of the immobilizer, keys, etc. After the erasure of memory is also displayed in the instrument cluster shows "Error". You can then upload to the panel in the standard way new data and perform restoration procedure.



7.4 The instrument cluster is "Dead" after communication

If communication is interrupted and the instrument panel does not respond to the diagnosis, it is necessary to perform the reset. Disconnect the vehicle battery for a while, then clear all faults diagnosis of controllers.

If it is possible to establish a program VAG-Prog diagnostic connection, first select "Restart".

7.5 Reporting bugs

If you find an unsupported controller, send us more information about the error by e-mail to support@secons.com and we will do everything to sort the problem. The successful resolution of need:

Information about the type of vehicle (model, model year, ideally with a VIN code)

Controller Type and order code

Description of the problem

Debug log (attach file)

Debug log easily fits into the application. Confirm the operation that fails and returns an error, then from the main menu, select "About", and "Save debug logging. " The created file attach to e-mail.

8. EEPROM pinouts

In case you will need to re-program EEPROM manually, most common SO8 memories pinout follows:

8.1 24Cxxx



8.2 93Cxxx



8.3 95xx

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Q [] 2	7 🛛 HOLD
<u></u> Т З	6]C
V _{SS} [] 4	5 🛛 D

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