VAG TACHO USB Manual



1. System requirements:

VAGTACHO.EXE is a Windows based program that will work on any PC or laptop that has installed Microsoft Windows 98, 2000, ME, XP.

Hardware requirements: Any PC or laptop with Pentium / 133MHz processor or higher, and a free USB port.

2. USB Drivers installation:

Caution: This hardware interface requires drivers installation to work! Please use only drivers that are supplied with this product. There are no other or better drivers.

For all Windows XP users: Please disconnect your PC or laptop from Internet before install drivers ! Don't use Windows 'original' drivers! This is important!

How to install drivers:

Connect OBD interface to any free USB port. This will start Windows procedure to install drivers for the new hardware found. Tell to Windows where the drivers are on your harddisk. If Windows tells you that the driver is not certified by Microsoft just confirm that you want to install it anyway.

How to uninstall drivers:

If you wish to uninstall drivers, go to control panel and uninstall drivers with standard procedure.

3. How to work with the software:

Connect OBD connector to car diagnostic socket.

Then connect hardware interface to any free USB port of your PC or laptop. Start program VagTacho.exe. Select ECU from menu. If you don't know type of kombiinstrument, press 'Connect Any Tacho' button. Program will try to connects any kombi and will display type of kombiinstrument. Then press disconnect, and select appropriate ECU from menu. There is no problem if you do wrong selection, but all other functions will work only if you select right ECU. After selecting ECU, press "Connect Selected ECU" button. If everything is OK after 5 seconds you will see kombi info on display and program will try to log in to the ECU. After successful procedure, all useful buttons on screen will be enabled.

4. Commands:

4.1 Select ECU from Menu

This option selects type of ECU that user will try to connect.

* (There is selections for VW/Seat/Skoda immo box. It is usefull only if you have an already working key, and switch ignition ON with this key. Works only for Immo1 type immobilizers!)

4.2 File

User can save and read files to / from program memory buffer.

4.3 Connect any tacho button

By pressing this button user can connects to kombi, and read info for any car's kombiinstrument. This is useful when type of kombi is unknown.

4.4 Connect Selected ECU

By pressing this button user will connects kombi or immo box which is selected from menu.

4.5 Read Info

After pressing this button, program will shows ECU info. Press it twice to read whole information.

4.6 Read PIN

Program will try to read PIN code for log in to the selected ECU. If the operation was successful, PIN code will be shown on display.

4.7 Change Mileage

This will change mileage counter on kombi display. After pressing, program will try to read actual mileage, then user may enter 'new' mileage and press 'Continue' button. For some kombiinstruments it is required to disconnect and reconnect car battery after this procedure.

4.7 Stop Action

Pressing this button will cancel any command that is in progress. Not all commands can be stopped, it is useful only for some of them.

4.8 Read eepromThis will read ECU eeprom memory and store data into memory buffer.It is usefull if program is logged in to the tacho, but can't read PIN code automatically.User can save whole eeprom data to a file.

4.9 Program New Key

This will open a new window. User must enter correct PIN code , and number of new keys to program. Then press OK , and read messages from software. The number of all programmed keys must be greater than zero, otherwise there are some error. Note: If you have read PIN code before this procedure, you have to disconnect,

turn OFF ignition, then ON and connect again with "Connect any tacho" for tacho, or "Connect selected ECU" for immo box.

4.10 Disconnect End of communication command.

4.11View memory bufferThis will show memory data on screen in another window.

4.12 Write eeprom Same as its name. Upload file in memory first!

4.13Clear ECU errorsThis command will erase all trouble codes that are stored in ECU memory.

5. Error Messages:

In case of receiving any error message, user can try to repeat same operation again. If error message continue to appear on screen, this means that there are some fatal error, or kombiinstrument or ECU is unknown or program can't log in.

6. Usage Example:

VagTacho USB to K-line Interface Connected !								
File Select ECU Options About Connecting VDO New OK 1J5920806C KOMBI+WEGFAHRSP VDO VO2 Check for VDO tacho Tacho is VDO! Try to log in Please wait! Check for Seed-Key Please Waittrying to calculate Key Seed-Key OK ! Access GRANTED!								
Connect Selected ECU	Read ECU Info	Read PIN	Change Mileage					
Connect Any Tacho	Connect Any Tacho Read EEprom Program New Key Disconnect							
Stop Action Write EEprom Clear ECU Errors View Memory Buffer								

Connected to a VDO New dashboard

🗠 YagTacho 🛛 USB to K-line Interface Connected !									
File Select ECU Options Abo	File Select ECU Options About								
Connecting VDO New									
OK									
1J5920806C KOMBI+WEGFAHRSP VD0 V02									
Check for VDO tacho									
Tacho is VDO! Try t	o log in Please	e wait!							
Check for Seed-Key.	···								
Please Walttry	лд то сатситате ко	ey							
Access GRANTEDI									
Try to Read Immobil	izer PIN code								
PIN CODE: 3231									
			V						
		1							
Connect Selected ECU	Read ECU Info	Read PIN	Change Mileage						
Connect Any Tacho	Read EEprom	Program New Key	Disconnect						
Stop Action Write EEprom Clear ECU Errors View Memory Buffer									
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Reading of the immo pin code which is needed to learn new keys to it

VagTacho USB to K-line	e Interface Connected !		_ _ N×
Connecting VDO New OK 1J5920806C KOMBI+4 Check for VDO tach Tacho is VDO! Try Check for Seed-Key Please Waittry Seed-Key OK ! Access GRANTED! Try to Read Immobil PIN CODE: 3231	WEGE To J Number of r Erase Select Channel OK	Lancel	
Connect Selected ECU	Read ECU Info	Read PIN	Change Mileage
Connect Any Tacho	Read EEprom	Program New Key	Disconnect
Stop Action	Write EEprom	Clear ECU Errors	View Memory Buffer

And adapting new keys with this pin

VagTacho USB to K-line Interface Connected !									
File Select ECU Options Ab	out								
Connecting VDO New									
1J5920806C KOMBI+WEGFAHRSP VD0 V02									
Check for VDO tach									
Tacho is VDO! Try t Check for Seed-Key.	o log in Please	e wait!							
Please Waittryi	ing to calculate Ke	ey							
Seed-Key OK !									
Try to Read Immobil	lizer PIN code								
PIN CODE: 3231									
Reading EEprom									
I			<u></u>						
Connect Selected ECU	Read ECU Info	Read PIN	Change Mileage						
Connect Any Tacho	Connect Any Tacho Read EEprom Program New Key Disconnect								
Stop Action Write EEprom Clear ECU Errors View Memory Buffer									
Reading address:0070									

Reading eeprom of the dashboard

ĕ	Memo	y Buff	er															
	Memor 0000:0 0010:0 0020:6 0030:F 0040:9 0050:F 0060:F 0070:F 0080:F 0080:F 0080:5 0000:3 00E0:0 00F0:3 0100:0	y Buff 1 02 0 00 8 30 7 FF 7 FF 7 FF 7 FF 7 FF 7 00 1 02 7 FF 1 57 3 31 3 31 3 43	er 9C 00 1A FF E5 FF FF 5A 240 56 5A 40 56 5A 40 56 38 31 C6	41 00 EC FF 13 FF FF 55 40 57 37 30 46 FF 37 F0	0B 00 4D FF 82 FF 0C 73 73 02 5A 5A 42 56 4C 37 C6	49 00 D2 FF 2D FF 80 21 21 00 37 30 35 42 46 9C F0	87 00 4A FF 85 FF FF 8F 10 5A 42 30 41 56 6A C6	00 00 10 FF FF FF FF 64 64 10 30 35 32 42 C9 F0	00 4E FF B1 FF FD 10 42 30 31 31 41 83 C6	00 3E FF C1 FF FF 00 02 35 35 35 32 4A 31 98 F0	00 00 A7 FF 58 FF FF 30 31 31 31 0E C6	00 00 B1 FF 4E FF FF 5 11 FF 35 32 37 32 4A 7E F0	00 00 FF FF FF FF 31 30 37 33 37 C6 04	00 00 FF FF FF FF FF 30 32 37 05 30 32 F0 00	00 00 FF FF FF FF FF 30 56 37 32 33 C6 00	00 FF FF FF FF FF FF 37 57 57 31 30 F0 40	œA□I	
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ľ	<pre>VagTacho USB to K-line Interface Connected! File Select ECU Options About Connecting VDO New OK 1J5920806C KOMBI+WEGFAHRSP VDO V02 Check for VDO tacho Tacho is VDO! Try to log in Please wait! Check for Seed-Key Please Waittrying to calculate Key Seed-Key OK ! Access GRANTED! Try to Read Immobilizer PIN code PIN CODE: 3231 Reading EEprom Done!</pre>																	
	Connect	Selec	ted	ECU		F	Read	I EC	UIn	fo			R	lead	PIN		Change Milea	ge
	Conne	ct Any	Tac	ho			Rea	d EE	pro	m		F	, logi	am I	New	Кеу	Disconnect	
	St	op Act	ion				Writ	te EE	pro	m		(Clear	r EC	U Er	rors	View Memory B	uffer
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Show read eeprom in the memory buffer

YagTacho U5B to K-line Interface Connected ! File Select ECU Options About Connecting VD0 New OK IJ5920806C KOMBI+WEGFAHRSP VD0 V02 Check for VD0 tacho Tacho is VD0! Try to lo(Check for Seed-Key Please Waittrying to seed-Key OK ! Current mileage: 110200 Access GRANTED! Try to Read Immobilizer PIN CODE: 3231 Continue Cancel						
Connect Selected ECU	Read ECU Info	Read PIN	Change Mileage			
Connect Any Tacho	Read EEprom	Program New Key	Disconnect			
Stop Action	Write EEprom	Clear ECU Errors	View Memory Buffer			

Reading out current mileage

WagTacho US8 to K-line Interface Connected ! File Select ECU OK 0K IJ5920806C KOMBI+WEGFAHRSP VD0 V02 Check for VD0 tacho Tacho is VD0! Try to loc Tacho is VD0! Try to loc Enter 'New' Mileage Please Waittrying to Oursent mileages 110200							
Seed-Key OK ! Access GRANTED! Try to Read Immobi. PIN CODE: 3231 Seek mileage recor	Ţ						
Connect Selected ECU	Read ECU Info	Read PIN	Change Mileage				
Connect Any Tacho	Read EEprom	Program New Key	Disconnect				
Stop Action	Write EEprom	Clear ECU Errors	View Memory Buffer				

Entering new value...

🚟 ¥agTacho 🛛 USB to K-line	Interface Connected !							
File Select ECU Options Abo	out							
Connecting VDO New OK 1J5920806C KOMBI+WEGFAHRSP VDO VO2 Check for VDO tacho Tacho is VD0! Try to log in Please wait! Check for Seed-Key Please Waittrying to calculate Key Seed-Key OK ! Access GRANTED! Try to Read Immobilizer PIN code PIN CODE: 3231 Seek mileage record Done! Reset kombi No Connection to ECU!								
Connect Selected ECU	Read ECU Info	Read PIN	Change Mileage					
Connect Any Tacho	Connect Any Tacho Read EEprom Program New Key Disconnect							
Stop Action Write EEprom Clear ECU Errors View Memory Buffer								

...and writing it



Before ...



... and after

Caution:

This software may not works on some types kombinstruments. Also some automated functions also may not be executed due to variety of types and software versions. The authors of this software has no ability to test all existing types and models of kombinstruments, and therefore there is no any guarantee that desired actions will be executed.

Warning:

For all Motometer dashes:

There is some very important information in eeprom memory of this types kombiinstruments. If you erase eeprom, or corrupt original data ,in some cases you may not be able to write or read eeprom at all ! Message "ACCESS DENIED" will be show when you select tacho !

Important note:

When try to read VDO NEW dash with Seed - Key protection, user have to try to connect several times(up to 10) before be able to read PIN or Change mileage. After each unsuccessful attempt, just press "Connect selected ECU" again and again, until see message " Seed-Key OK! Access GRANTED ! " Number of attempts is unlimited. Usually access is granted after 2 - 6 attempts.