

# VAG KM+IMMO Tool User Manual

### VAG KM IMMO Tool User Manual

http://www.obd2be.com/



### **Table of Contents**

1.	Safety	y Precautions and Warnings	3
2.	Gene	ral Information	4
3.	VAG I	KM+IMMO Tool Overview	5
	3.1.	Tool Description	5
	3.2.	Specifications	6
	3.3.	System Requirements	7
	3.4.	Features	8
4.	Firmw	/are Update	10
5.	PC si	de Software Update	12
6.	Troub	leshooting	13
	6.1.	"Device not connected"Error	13
	6.2.	"No authorization" Error	14
7.	Addin	g dealer key with Tango	15
8.	Warra	anty and Service	22
	8.1.	Limited One Year Warranty	22
	8.2.	Service Procedures	22





### **1. Safety Precautions and Warnings**

To prevent personal injury or damage to vehicles and/or the tool, read this instruction manual first and observe the following safety precautions at a minimum whenever working on a vehicle:

- Always perform automotive testing in a safe environment.
- Wear safety eye protection that meets ANSI standards.
- Keep clothing, hair, hands, tools, test equipment, etc. away from all moving or hot engine parts.
- Operate the vehicle in a well ventilated work area: Exhaust gases are poisonous.
- Put blocks in front of the drive wheels and never leave the vehicle unattended while running tests.
- Use extreme caution when working around the ignition coil, distributor cap, ignition wires and spark plugs. These components create hazardous voltages when the engine is running.
- Put the transmission in PARK (for automatic transmission) or NEUTRAL (for manual transmission) and make sure the parking brake is engaged.
- Keep a fire extinguisher suitable for gasoline/chemical/electrical fires nearby.
- Don't connect or disconnect any test equipment while the ignition is on or the engine is running.
- Keep the tool dry, clean, free from oil/water or grease. Use a mild detergent on a clean cloth to clean the outside of the scan tool, when necessary.





### **2. General Information**

#### Thank you for choosing VAG KM+IMMO Tool.

This manual includes the use of equipment notes, please read this manual carefully before use so that you can correctly use it.

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# 3. VAG KM+IMMO Tool Overview

### **3.1. Tool Description**



ITEM	Description			
1	OBD II CONNECTOR Connects the tool to the vehicle's Data Link connector (DLC).			
2	USB CONNECTOR Connects the tool to the PC/Laptop through USB Cable.			





### **3.2. Specifications**

ITEM	Description
Operating Temperature	-20 to 70 °C (-4 to 158 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Diagnostic Interface	16 PIN
USB Interface	USB 2.0
Power	DC 5 V - 12 V
Consumption	0.25 W
Dimensions	Length         Width         Height           78 mm(3.07")         44 mm(1.73")         22 mm(0.86")
Net Weight	89 g
Gross Weight	176 g





### 3.3. System Requirements

	Minimum Specification	<b>Recommended Specification</b>
CPU	Pentium 3/1GHz or above	Pentium 4/1.6GHz or above
Memory(RAM)	256M or above	512M or above
HDD	40G or above	60G or above
Display	800 x 600 or above	1024 x 768 or above
OS	Win98/2000/XP/Vista	WinXP
Port	USB	USB

#### PC/Laptop Minimum Specification





#### **3.4. Features**

CDC32xx

Support VAG cars from year 2006.06+ by OBDII diagnostic (MICRONAS CDC3272 or CDC3217/97 and 24C32 EEPROM) Supported cars:

- > Golf, Golf+ from year 2007
- > Passat B6 from year 2007
- > Bora, Jetta from year 2007
- > Touran from year 2007
- > Caddy from year 2007
- > Tiguan, Eos from year 2008+
- > Octavia from year 2007
- A5,Q5,A4 08+

Supported cars by OBDII diagnostic:

- > A5
- > Q5
- > A4 from year 2008
- Moto MM7 (Golf6,Tiguan)

Supported cars by OBDII diagnostic:

- > Golf 6
- > Tiguan
- NEC24C32

Supported cars by OBDII diagnostic:

- > VW Golf 6
- > VW Multivan 2009
- > VW EOS 2009
- > VW Caddy 2009
- > VW Scirocco
- > VW Polo 2009
- > VW Bora 2010
- > VW Jetta 2010
- > VW Passat CC
- > VW Amarok
- > Skoda Octavia II 2009
- > Skoda Superb 2009
- > Skoda Fabia 2009
- > Skoda Yeti 2009
- > Seat Leon 2009





- > Seat Altea 2009
- > Seat Exeo 2009
- > Seat Ibiza 2009
- NEC24C64
  - Supported cars by OBDII diagnostic:
  - > VW Golf 6
  - > VW Multivan 2009-
  - > VW EOS 2009-
  - > VW Caddy 2009-
  - > VW Scirocco
  - > VW Polo 2009-
  - > VW Bora 2010-
  - > VW Jetta 2010-
  - > VW Passat CC
  - > VW Amarok
  - > Skoda Octavia II 2009-
  - > Skoda Superb 2009-
  - > Skoda Fabia 2009-
  - > Skoda Yeti 2009-
  - > Seat Leon 2009-
  - > Seat Altea 2009-
  - > Seat Exeo 2009-
  - > Seat Ibiza 2009-





# 4. Firmware Update

Click Tool > Check Update

💑 VAG KH+IHHO Tool 2006-2011 V1.5.2
Tool (I) Instrument (I)
Check Update (C)
Language (L) Ars from year 2006.06+ by OBDII diagnostic 3272 or CDC3217/97 and 24C32 EEPROM)
Exit(X) 5:
> Passat B6 from year 2007
> Bora, Jetta from year 2007 > Touran from year 2007
> Caddy from year 2007 > Tiguan, Fos from year 2008+
> Octavia from year 2007
[16:31:36] Current selection : CDC32xx
Identification HW Number SW Version Read DTCs Clear DTCs
Modify KM IMMO Dealer Key Service Mode EEPROM Flash
Latest software:1.5.2, latest firmware:2.0.0. To get latest software and information, visit web site.





#### Select Version, then click Update

Update Online	
Versions 2.0.0 (2011-08-10)	Detail Fixed a problem of device data may lost when updating online. Add 4th generation key function. * Require PC software V1.5.0 or later to update to this firmware version, otherwise, you will get a update error message. Click the product website link to download the new version of PC software.
Get version list success	Update Close





# **5. PC side Software Update**

Click the web site link to download latest PC software.

💑 VAG KH+IHHO Tool 2006-2011 V1.5.2
Tool (I) Instrument (I)
Support VAG cars from year 2006.06+ by OBDII diagnostic (MICRONAS CDC3272 or CDC3217/97 and 24C32 EEPROM)         Supported cars:         > Golf, Golf+ from year 2007         > Passat B6 from year 2007         > Bora, Jetta from year 2007         > Touran from year 2007         > Caddy from year 2007         > Caddy from year 2007         > Octavia from year 2007
[17:09:16] Current selection : CDC32xx
Identification HW Number SW Version Read DTCs Clear DTCs
Special Function       Modify KM     IMMO       Dealer Key     Service Mode       EEPROM     Flash
Latest software: 1.5.2, latest firmware: 2.0.0. To get latest software and information, visit <u>web site</u> .





## 6. Troubleshooting

#### 6.1. "Device not connected" Error





**Information:** Hardware not connected to PC with USB port. **Solution:** Plug device to USB.





#### 6.2. "No authorization" Error

(MICRONAS CDC3 Supported cars > Golf, Golf+ > Passat B6 fr > Bora, Jetta	272 or CDC321 : From year 200 om year 2007 From year 200	17/97 and 24C32	EEPROM)	
> Touran from > Caddy from y > Tiguan, Eos > Octavia from [17:35:24] Cur	year 2007 ear 2007 from y Modify year year Old KM rent s New KI	KM : M:		
Identification	This feature i	s not authorized, please	e contact your dealer.	Clear DTCs
Special Function				



**Information:** If you have bought this feature, your hardware firmware version is too old.

Solution: Update hardware firmware to latest version..





# 7. Adding dealer key with Tango

- 1. Condition 1: At least one key can be used.
- 1) Connect "VAG KM+IMMO Tool" to both pc and car.
- 2) Click "EEPROM" button, read EEPROM and save it for backup.
- 3) Click "Dealer Key" button, open "Dealer key" dialog.
- 4) Use the prompt key chip to make key.

Nec24c32 and Nec24c64: Megamos 48

- CDC VW: TP23
- CDC Audi: TP25
- CDC Skoda: TP24
- CDC Seat: TP22





Dealer Key	×		
Please use the Megamos 48 chip Use TagKeyTool,Tango,AD90,Zedbull or other tools to read and write data.			
Step 1 : Use tools to read data of Transponders Page 1 Page(Word) 1			
Step 2 : Calculate the dealer key data			
Calculate Dealer Key Data			
Step 3 : Write the following data to corresponding Transponders P	age		
Page(Word) 11 Page(Word) 10			
Page(Word) 9 Page(Word) 8			
Page(Word) 7 Page(Word) 6			
Page(Word) 5 Page(Word) 4			
Step 4 : Write Transponders Page 1 data, lock key         Note: When Page 1 data is written, the key is locked and can not be modified, make sure that the previous steps have been completed correctly.         Page(Word) 1			
Close	)		





5) Switch to Tango, read "Word 1" data and "Key ID" data.







6) Switch back to "Dealer key" dialog, input "Page(Word) 1" data, and

click "Calculate Dealer Key Data" button.

Dealer Key	×			
Please use the Megamos 48 chip Use TagKeyTool,Tango,AD90,Zedbull or other tools to read and write data.				
Step 1 : Use tools to read data of Transponders Page 1				
Step 2 : Calculate the dealer key data				
Calculate Dealer Key Data				
Step 3 : Write the following data to corresponding Transponders Pa	ige			
Page(Word) 11 AA BB Page(Word) 10 CC DD				
Page(Word) 9 3B D7 Page(Word) 8 BD E9				
Page(Word) 7 68 43 Page(Word) 6 2F 8C				
Page(Word) 5 C6 A2 Page(Word) 4 OC F8				
Step 4 : Write Transponders Page 1 data, lock key Note: When Page 1 data is written, the key is locked and can not be modified, make sure that the previous steps have been completed correctly.				
Page(Word) 1 E2 89				
Generate dealer key success.				

- Switch to Tango, write Word 6-11(for Nec24c32 and 24c64, you need write additional Word 4 and Word 5).
- 8) In Tango, write Word 1 to lock the key.
- Switch back to "Dealer key" dialog, click "Close", and then click "IMMO" button to open "Immo Info" dialog.





10) Input "New Key ID" with key id data read from step 5, then click "Add

Key" button.

Immo Info	×
VIN         LSVRR21T2B2377082           PIN         11786         Key Type	Modify VIN New VIN Modify VIN
Existing Key Number     5       KeyID1     BE FB 5C E5       KeyID3     BE FB 1E 6A       KeyID4     BE FB 5C E6	Add Key New Key ID BF 04 09 92 Add Key
KeyID5         BE FB 5C E7         KeyID6         FF FF FF FF           KeyID7         FF FF FF FF         KeyID8         FF FF FF FF	Close
Read immo info success.	

11) Finish.





#### 2. Condition 2: All keys are lost

- 1) Connect "VAG KM+IMMO Tool" to both pc and car.
- 2) Click "Service Mode" button to open "Service Mode" dialog.

Service mode (all keys lost)	X			
Note: Before the following process is complete, keep the PC and device connected with vehicle, do not disconnect. If you interrupt, you need to re-start from the first step.				
Step 1: Use tool to read the EEPROM Remove the 24C32 chip from instrument, read 24C32 EEPR programmer, and save EEPROM.	OM data with			
Step 2: Generate a special EEPROM				
Load EEPROM which read in the first step.	Load			
Step 3: Update EEPROM				
Save special EEPROM, write data to 24C32 EEPROM back to the chip, and install chip back in instrument.	Save			
Step 4: Save KEY file				
Save KEY file	Save			
⊂ Step 5: Use the KEY to login				
Login with the key file.	Login			
Step 6: Brush back to the original car EEPROM				
Write back the original EEPROM.	Write			
Step 7: proccess other functions				
Now you can close this dialog box, use other functions (such as adding key features)	ок			
	Close			

3) Remove the 24C32 chip from instrument, read 24C32 EEPROM data

with programmer, and save EEPROM.





- 4) Switch to "Service Mode" dialog, load EEPROM.
- 5) Save special EEPROM, write data to 24C32 EEPROM back to the chip, and install chip back in instrument.
- 6) Save KEY file.
- 7) Login with the key file.
- 8) Click "Write" button to write back the original EEPROM (via OBDII).
- Close "Service Mode" dialog, start adding dealer key from <u>Step 3 of</u>
   <u>Condition 1</u> above.

Note: Before the process is complete, keep the PC and device connected with vehicle, do NOT disconnect. If you interrupt, you need to re-start from the first step.





# 8. Warranty and Service

#### 8.1. Limited One Year Warranty

X-Horse warrants to its customers that this product will be free from all defects in materials and workmanship for a period of one(1) year from the date of the original purchase, subject to the following terms and conditions:

- This warranty does not apply to damages caused by improper use, accident, flood, lightning, or if the product was altered or repaired by anyone other than the Manufacturer's Service Center.
- X-Horse shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the tool. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
- All information in this manual is based on the latest information available at the time of publication and no warranty can be made for its accuracy or completeness. X-Horse reserves the right to make changes at any time without notice.

#### **8.2. Service Procedures**

If you have any questions, please contact your dealer.

If it becomes necessary to return the tool for repair, contact your dealer for more information.

