Volkswagen MkIV (Golf/Jetta/New Beetle) VAG-COM Info
Updated 28 Mar. 2005

Ross-Tech is not responsible for any damage or problems that may result from following these instructions. They are to be used at your own risk.

Specific Modules:

01-Engine: -- KWP-1281
VAG-COM works well with all engines available in the U.S. and most engines that users have tested in overseas markets.

Idle Speed Adaptation (may not work with APH engines, see your Repair Manual):

With engine warmed up, at idle:

[Select]
[01 engine]
[Adaptation - 10]
Enter channel 01 (Channel 02 for TDI engines)
Enter an adaptation value between 124 and 132
[Save]

The actual idle values and range of adjustment will depend on the specific characteristics of the engine and ECU.

Throttle Body Alignment:

See the **Throttle Body Alignment page**.

Activating Cruise Control on a new ECU (DBW):

Factory fresh ECU's often come with cruise control de-activated. If this is the case, there will not be a letter "G" in the Component field of VAG-COM when connected to the Engine.

[Select]
[01 - Engine]
[Login - 11]
Enter 11463 to activate cruise control
[Do It!]

After doing this procedure, there should be a letter "G" in the Component field.

02-Auto Trans : -- KWP-1281
VAG-COM works fine

03-ABS Brakes: -- KWP-1281 (earlier cars) or KWP-2000 (2001+ models)
VAG-COM works fine

08-HVAC: -- KWP-1281
VAG-COM works fine

15-Airbags: -- KWP-1281

VERY IMPORTANT!!!! Read the following before attempting to access the Airbag controller:

17-Instruments: K1 -- KWP-1281
VAG-COM Works fine.

Immobilizer II Instructions:

Immobilizer III Instructions:

Recode for warning lamps:

[Select]
[17 - Instruments]
[Recode - 07]
Write down the existing coding for future reference.
Enter 5-digit code from below
[Do It!]

Look at the first two digits in the coding. Add the values for the options together to get the correct coding.

00 - No available equipment
+01 - Brakepad wear sensor warning active
+02 - Seatbelt warning active
+04 - Washer fluid level warning active

Look at the third digit in the coding (Market version):

1 - "EU" 24 hour clock (may result in odometer in km in 2002+ clusters)
2 - "USA" 12 hour clock
3 - "Canada" 12 hour clock (may result in odometer in km in 2002+ clusters)
"The third digit in the code is the country code. The codes are:
4 - "UK" 24 hour clock (should result in odometer in miles)
5 - Japan
6 - Saudi Arabia
7 - Australia

Look at the fourth digit in the coding (Cylinders):

3 - No Service Interval (2002+ models)
4 - 4-cylinder (1999-2001 models)
6 - 6-cylinder (1999-2001 models)

Look at the fifth digit in the coding (Distance impulse multiplier):

2 - 3538
4 - 3648 (some 2002+ models)

So, if you want to have Seatbelt warning and washer fluid warning only in a 2001 Canadian 6-cylinder vehicle, (add 00+02+04 = 06),3,6,2 = 06362.

19 - CAN Gateway: -- KWP-1281
VAG-COM Works fine. This is physically located in the Instrument Cluster, but functionally it controls communications on the CAN-BUS.

Look at the last digit in the coding. Add the values for the options together to get the correct coding.

0 - No available equipment
+1 - Automatic Transmission
+2 - ABS Brakes
+4 - Airbags

So, if you want to support Automatic Transmission, ABS Brakes, and Airbags, (add 1+2+4 = 7) = 00007. Note: 2002+ models do not need to be coded separately for automatic transmission, so a 2002 with Automatic Transmission, ABS Brakes, and Airbags, (add 2+4 = 6) = 00006.

22 - All Wheel Drive: -- KWP-1281
VAG-COM Works fine. This is the Haldex system on some non-US models.

35 - Central Locks: -- KWP-1281
Only on vehicles with manual crank windows. VAG-COM Works fine.

37 - Navigation: -- KWP-1281
VAG-COM Works fine.

46 - Central Convenience: -- KWP1281
Only on vehicles with power windows. VAG-COM fine. There are numerous options/ features that can be set.

Selective Unlocking:

[Select]
[46 - Cent. Conv.] (35 - Cent. Locking for manual window cars)
[Recode - 07]
Write down the existing coding for future reference.
Enter 5-digit code from below
[Do It!]

Look at the existing Soft. Coding. If you have selective unlocking (press the unlock button on the remote once to open the driver's door, twice to open all the doors) the last digit of your coding should be an even number. To make all doors unlock, add 1 to the coding.

So, if you have a 2-door 2002 GTI that is coded for selective unlocking (00064) add one to make it 00065 so that all doors unlock with one press of the unlock button.

Lock/Unlock Horn/Flash:

[Select]
[46 - Cent. Conv.] (35 - Cent. Locking for manual window cars)
[Adaptation - 10]
Channel (03..08)
Adaptation Value (1 = on, 0 = off)
[Save]

Channel 03 Auto Lock
Channel 04 Auto Unlock
Channel 05 Unlock, horn sounds
Channel 06 Lock, horn sounds
Channel 07 Unlock, turn signals flash
Channel 08 Lock, turn signals flash

54- Rear Spoiler: – KWP1281
VAG-COM appears to work fine. This is for New Beetle 1.8T only.

55- Headlight Range: – KWP1281

VAG-COM appears to work fine. This is the OEM Xenon HID system on some non-US models.

Headlamp Coding:

[Select]
[55 - H. Light Range]
[Recode - 07]
Write down the existing coding for future reference.
Enter 5-digit code from below
[Do It!]

available codes:
00001 - Golf 2 wheel drive
00002 - Golf 4 wheel drive
00003 - Jetta/Bora 2 wheel drive
00004 - Jetta/Bora 4 wheel drive

Headlamp Adjustment:

[Select]
[55 - H. Light Range]
[Basic Settings - 04]
Set channel to "000"
[Do It!]
Wait about 20 seconds
Manually adjust headlamps
[Done, Go Back]

56- Radio: – KWP1281
VAG-COM appears to work fine.

Radio Recoding:

[Select]
[56 - Radio]
[Recode - 07]
Write down the existing coding for future reference.
Enter 5-digit code from below
[Do It!]

Look at the first two digits in the coding (sound field tuning):

00 - All models with Premium VI w/o Multifunction Steering Wheel
01 - Golf/GTI
02 - Jetta
03 - Jetta Wagon
04 - All models with Premium VI with Multifunction Steering Wheel
06 - New Beetle

Look at the third digit in the coding (radio/speaker system):

0 - Premium V or Premium VI (Monsoon)
4 - Premium IV, Premium V, or Premium VI (non-Monsoon)

Look at the fourth digit in the coding (sound correction):

0 - Premium IV, Premium V, or Premium VI (non-Monsoon)
3 - Premium V (Monsoon) 2-door or Premium VI (Monsoon)

4 - Premium V (Monsoon) 4-door

Look at the fifth digit in the coding (CD player/changer):

1 - Without CD Player/Changer
3 - With CD Player/Changer

So, if you have a 2-door GTI with Monsoon and a CD changer, 01,0,3,3 = 01033.