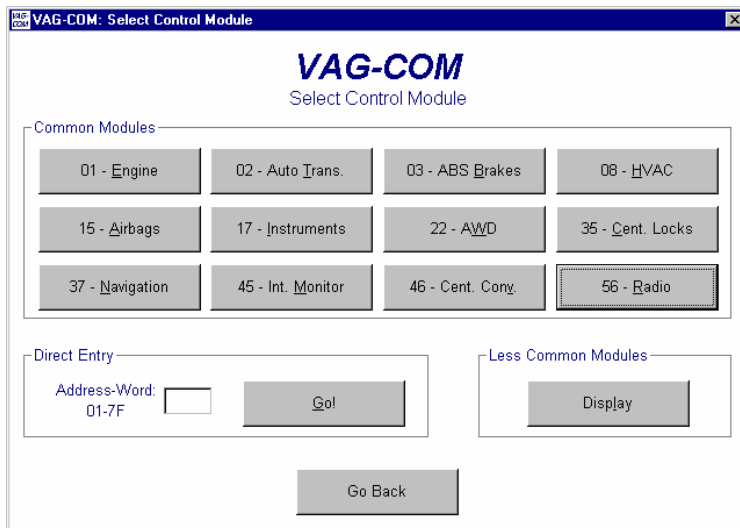# Coding your VW Navigation Unit

Using Vag-Com ensure that the Navigation unit and car ignition is switched on, start Vag-Com

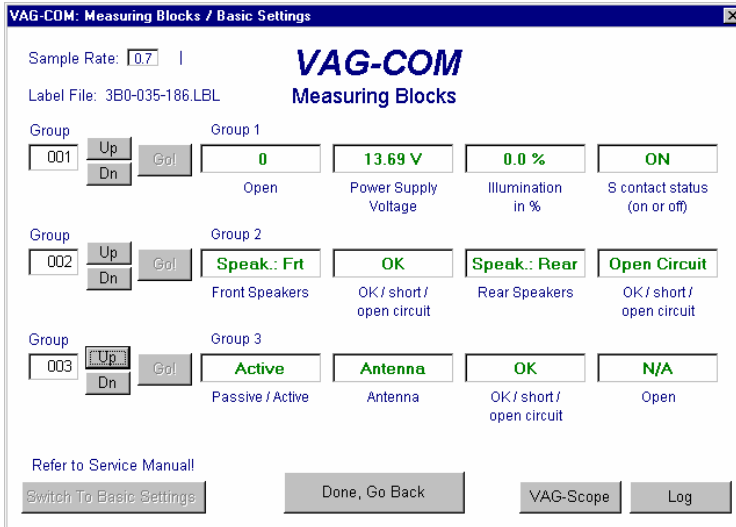From the Control Module Selection screen select 56 – Radio

The radio will go off and the screen will display "Diag", in addition if you have an instrument cluster display this will also display "Diag". You may hear the odd click from the speakers, this is normal and is caused by the unit checking the connection of the speakers.
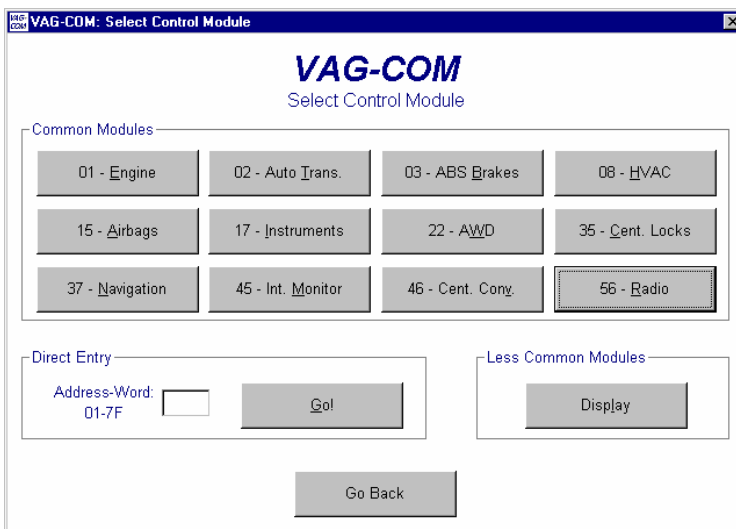
http://www.vwnavi.co.uk
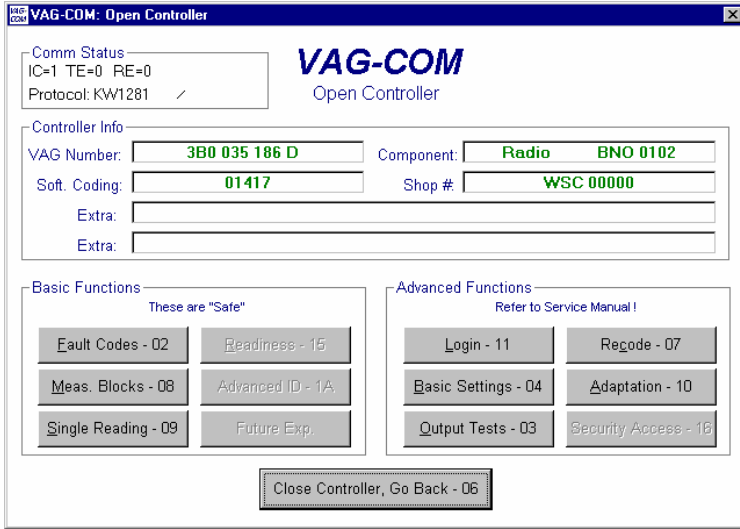
The item of interest on this screen is the Soft Code use the table below to set the Soft code using the Recode-07 function

1	2	3	4	5	Function
					Additional Equipment 1 = Active (Amplified) Aerial Std on Golf 2 = CD Changer 4 = Second (In Dash Panel) Display "FIS" (Add the total for the options 7 = all)
					Additional Amplifier 0 = No Additional Amplifier 1 = Bose Sound System 2 = Nokia DSP Sound System
					Number of Speakers 2 = 2 Front 4 = 2 Front 2 rear
					Sound Matching Golf 3 Door = 2 Golf 4 5 door = 1 Golf Estate = 8 ?
					Country 1 = Non Europe Market 0 = Europe Market

Therefore 01417 is a Navigation system fitted to a European 5 door Golf, with Bose Sound System, CD changer, active aerial and FIS display

VAG-COM: Measuring Blocks / Basic Settings

Sample Rate: 0.7 |

VAG-COM
**Measuring Blocks**

Label File: 3B0-035-186.LBL

Group			Group 1			
001	Up / Dn	Go!	0	13.69 V	0.0 %	ON
			Open	Power Supply Voltage	Illumination in %	S contact status (on or off)

Group			Group 2			
002	Up / Dn	Go!	Speak.: Frt	OK	Speak.: Rear	Open Circuit
			Front Speakers	OK / short / open circuit	Rear Speakers	OK / short / open circuit

Group			Group 3			
003	Up / Dn	Go!	Active	Antenna	OK	N/A
			Passive / Active	Antenna	OK / short / open circuit	Open

Refer to Service Manual!

Switch To Basic Settings   Done, Go Back   VAG-Scope   Log

The Measurement Blocks for the Radio part of the Navigation System are fairly straight forward, note for the bench test I had no rear speakers, CD changer of FIS connected.

VAG-COM: Measuring Blocks / Basic Settings

Sample Rate: 1.1 –

VAG-COM
Measuring Blocks

Label File: 3B0-035-186.LBL

Group			Group 4			
004	Up / Dn	Go!	0	Telephone	OFF	N/A
			Power output to active amp.	Open	Open	Open

Group			Group 5			
005	Up / Dn	Go!	CD Connect.	Not OK	N/A	N/A
			CD charger installed?	OK / not OK	Open	Open

Group			Group 6			
006	Up / Dn	Go!	Ext. Display	Not OK	N/A	N/A

Refer to Service Manual!

Switch To Basic Settings   Done, Go Back   VAG-Scope   Log

VAG-COM: Select Control Module

VAG-COM
Select Control Module

Common Modules

01 - Engine	02 - Auto Trans.	03 - ABS Brakes	08 - HVAC
15 - Airbags	17 - Instruments	22 - AWD	35 - Cent. Locks
37 - Navigation	45 - Int. Monitor	46 - Cent. Conv.	56 - Radio

Direct Entry

Address-Word: 01-7F [   ] Go!

Less Common Modules

Display

Go Back

Next return to the Select Control Module and select 37 – Navigation (Note if you have the TV tuner it's Control Module 57)

http://www.vwnavi.co.uk
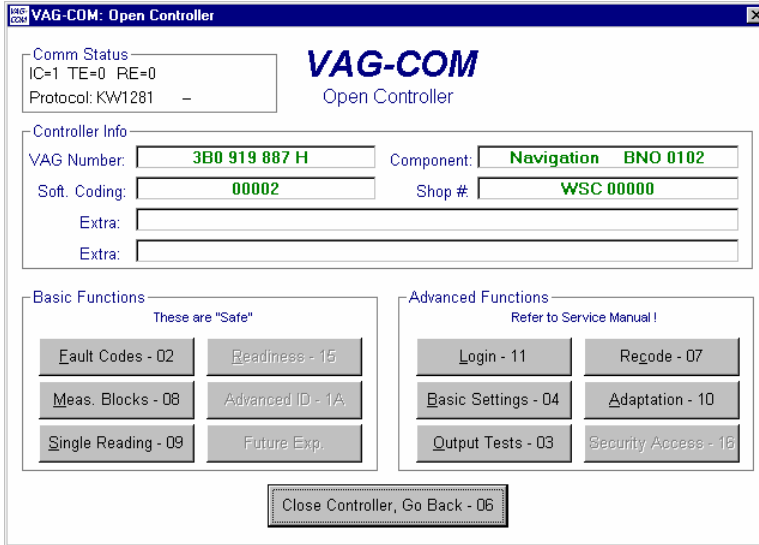
For the navigation Unit only soft code 00002 works, so no need to change this.

Adaptation does require changing, see table below for values

Adaptation Channel 01 – Tyre Circumference
Set this value in accordance with the table below

Value	Tyre Size
1935	195/65 R15
1910	205/60 R15
1930	205/55 R16
1930	225/45 R17
1937	255/35 R18
1895	185/65 R15
1935	195/65 R15

Adaptation Channel 02 – Pulses per revolution
Set this as follows (For Golf Mk 4 only)
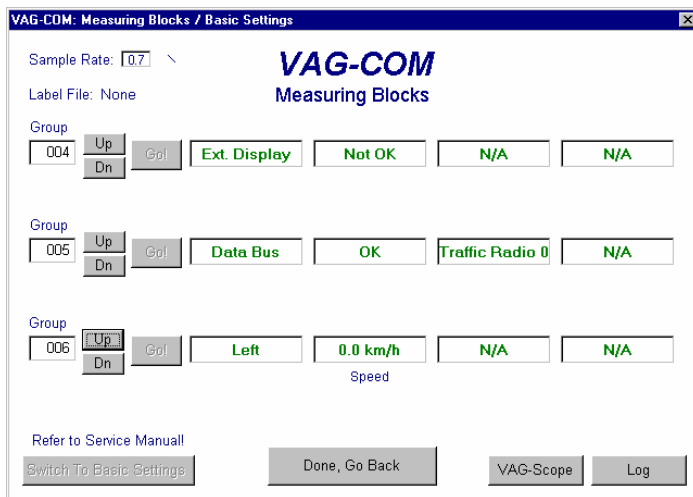
8   If you have used the Gala wire for speed sense
43   If you have connected the speed pulse to the ABS

Adaptation Channel 03 - Diagnostics
Leave this at 0

http://www.vwnavi.co.uk
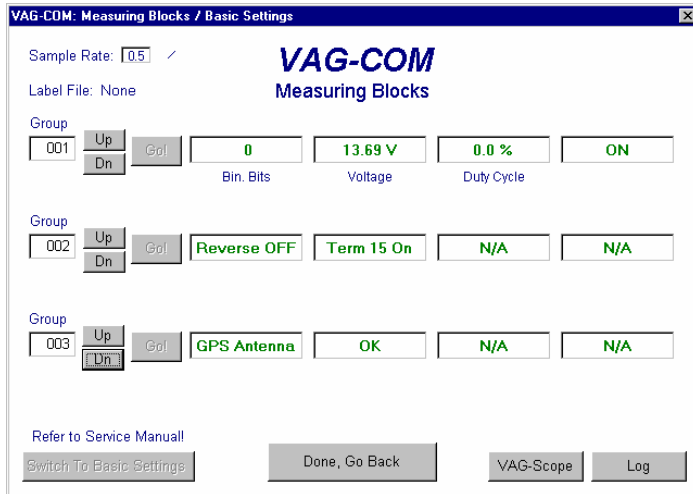
The Measurement blocks for the Navigation side are self explanatory, Group 002, reverse is as it says, if you select reverse gear is goes to Reverse ON, terminal 15 is the ignition ON.

Group 004 is the FIS if fitted and coded, Group 005 is the internal data bus and if you have a TMC unit "Traffic Radio" goes to 1

Group 05 is the speed pulse, so if you go for a drive it will show the speed in Km/h

That's it, check for and clear any fault codes and unplug the Vag-Com unit