Seat Ibiza 6J VCDS options

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Last update: June 2, 2011

1 Introduction

VCDS is the VAG-COM Diagnostic System made by Uwe Ross. Most VAG cars manufactured since 1994 can be diagnosed and, depending on the car model, modified with this program and the right cable. For the Ibiza 6J you'll need a HEX-CAN interface cable.
I initially created a document in my native language, Dutch, in order to collect VCDS options I found on the internet and on my own car, an Ibiza 6J ST 1.2 TDi Ecomotive. These are very popular in the Nederlands due to tax reductions in order to promote 'green' cars. Most options will have been tested on my own car, though not all as it was produced in July 2010 and the light switch with auto-option wasn't available at that time.
The Volkswagen Polo Bluemotion and the Skoda Fabia Greenline, introduced in 2010 share many components with the Ibiza ST Ecomotive. Most options found in this document can probably be applied on these cars as well. Staging (needle sweep) however, can be set on the Fabia but not on the Ibiza!
Most screenshots where made with VCDS Beta 11.2.
BCM PQ25 and RLS can be found in 09-Centr.Elec.

Special thanks go to adjego@ the seat-online.nl forum for his input and to mr. Speek for keeping a vast collection of VAGCOM documentation online through his web site. Though mainly in Dutch you can find anything from VCDS settings to error codes and remedies to fix them as well as general information regarding on-board data networks in (non VAG) cars.

Note 1: I did my best to make the content of the document as reliable as possible. If you find things should be rephrased or simply are blatant errors please let me know via this forum topic @seat-online.nl. Thanx!

Note 2: If you read about enabling a bit I mean selecting the check-box or changing the bit to `1` (one). Disabe therefor means deselecting the check-box or changing the bit to `0` (zero).

Note 3: VCDS is a powerful tool, **please make an auto-scan of the car before you apply any changes**! This way you can fallback to the previous settings in case something goes wrong. As said, I did my best to keep this document clear from any errors but changes you make to any car with VCDS are at your own risk. Don't blame me if something goes wrong.

Light switch with 'auto'-option: Some modifications to the cars exterior lighting settings will only work if the car comes with a light switch which has an 'auto' option. These came available in the Netherlands with cars produced after week 48 of 2010. Cars from before this production week may have a rain/light sensor but without the switch the light sensors features aren't available. (This is the case with my car, boohoo).

2 Central doorlocks

2.1 Anti carjack

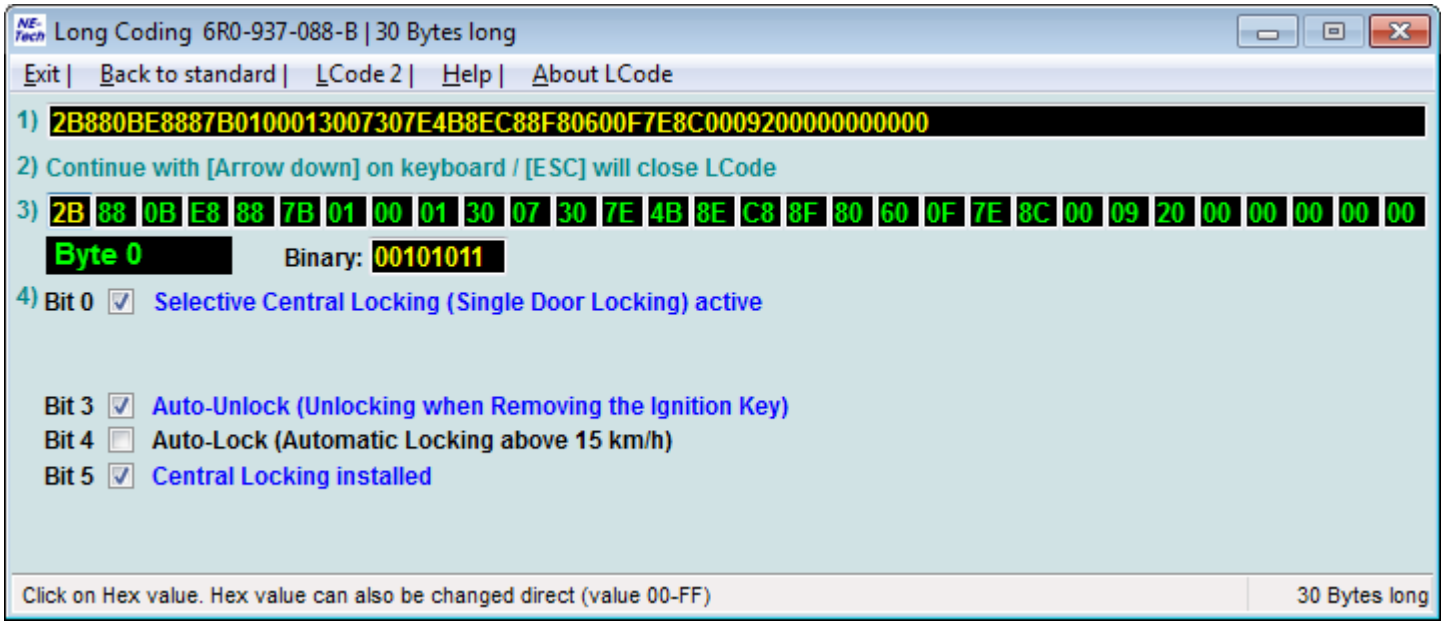
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 0
Bit: 0
Purpose: Switch bit 0 to 1 to only unlock the door on the drivers side when single pressing the unlock button on the remote. This will prevent carjackers or spouses from entering the car through the passenger door. When the unlock button is pressed a second time, within 3 seconds, all the doors are unlocked. Refer to screenshot 1: BCM PQ25 - Byte 0.

2.2 Auto unlock when removing the key from the ignition

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 0
Bit: 3
Purpose: Switch bit 3 to 1 to automatically unlock all doors when you remove the car key from the ignition switch. This can be helpful if you would like to help someone to get in and you have the 'automatic lock above 15km/h' enabled. Please note the the doors should unlock automatically when you pull the interior door open leaver. Refer to screenshot 1: BCM PQ25 - Byte 0.

2.3 Automatic lock above 15km/h

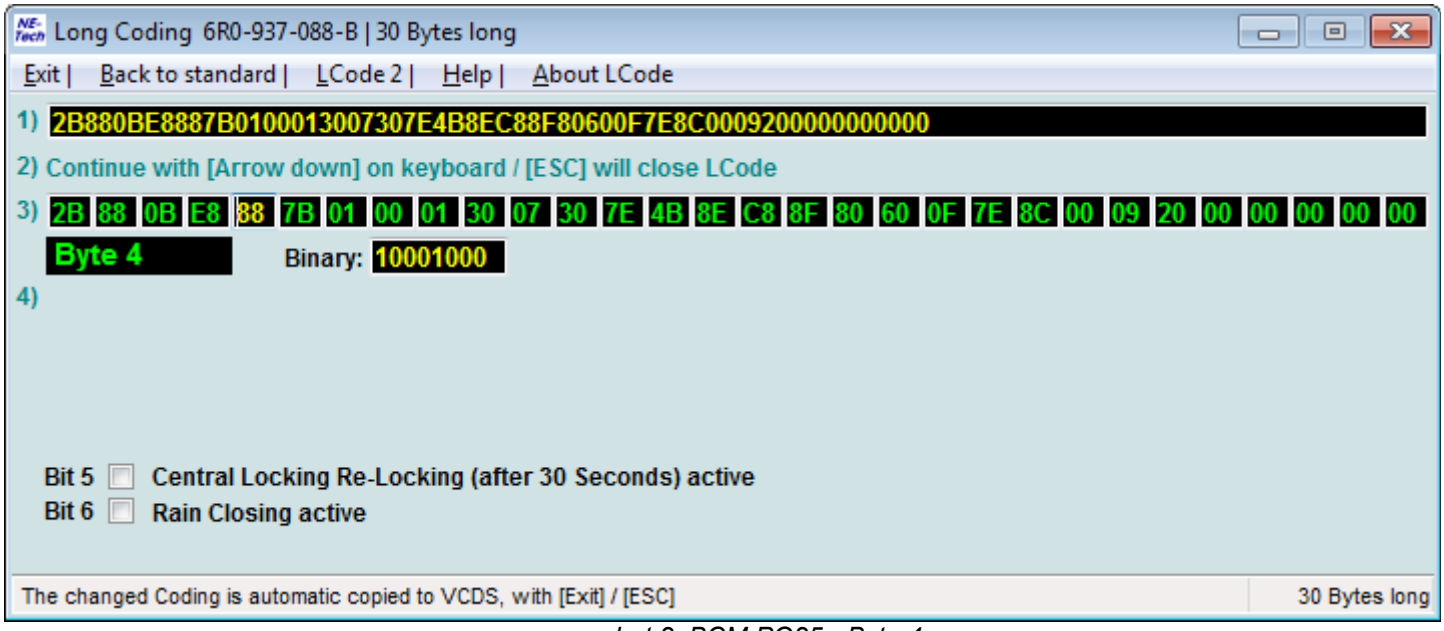
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 0
Bit: 4
Purpose: The doors will be locked when you drive faster than 15 km per hour. This to prevent your laptop form being stolen when you stop at a traffic light further down the road.



screenshot 1: BCM PQ25 - Byte 0

2.4 Re-lock after 30 seconds

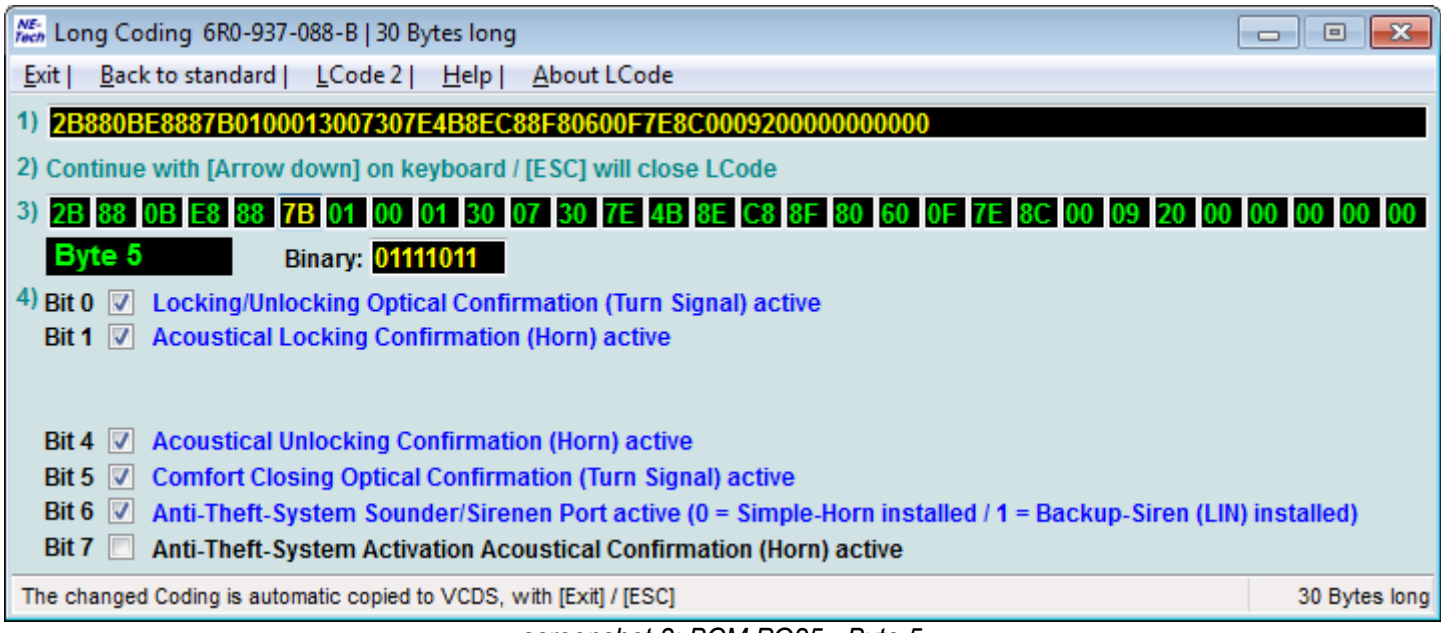
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 4
Bit: 5
Purpose: Switch bit 5 to 1 to disable this option. This way the doors won't re-lock 30 seconds after you unlocked the doors through the remote and haven't opened a door yet. The description in the screenshot states the opposite, it IS active when the bit is 0, at least in my car!



screenshot 2: BCM PQ25 - Byte 4

2.5 Short car horn honk at lock/unlock

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 5
bits: 1, 4 en 7
Purpose: Change these bits to 1 to get a short blow of the car horn when you lock the doors; i.e. not the sexy bleep you'll get from more expensive VAG cars. On unlock you'll get two short honks. AFAIC too loud unless you hate your neighbors and like to wake them up when you leave at 6 in the morning or come home at night.
Disable bit 7 is sufficient to turn off this function.
Note 1: In the same byte you can dis-/enable the turn signal confirmation though I have not tried that myself.
Note 2: bit 1 and 4 can also be set via Adaptation.

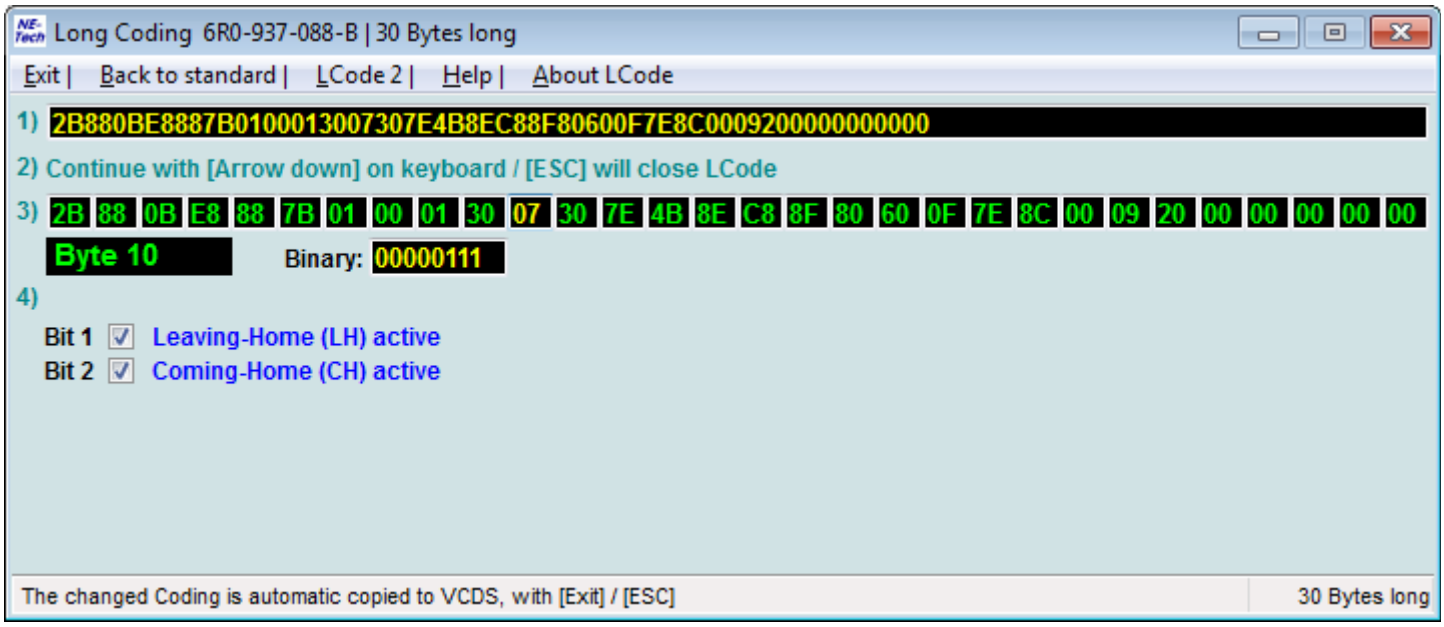


screenshot 3: BCM PQ25 - Byte 5

3 Car lighting

3.1 Leaving home

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 10
Bit: 1
Purpose: The counterpart of Coming Home turns on the headlights for about 30 seconds (?little shorter?) when you unlock the car with the remote, you have an active light sensor (see Light switch with 'auto'-option) and its dark enough. Set to 1 to enable this option. Refer to 3.7 to use the fog lights for this option.

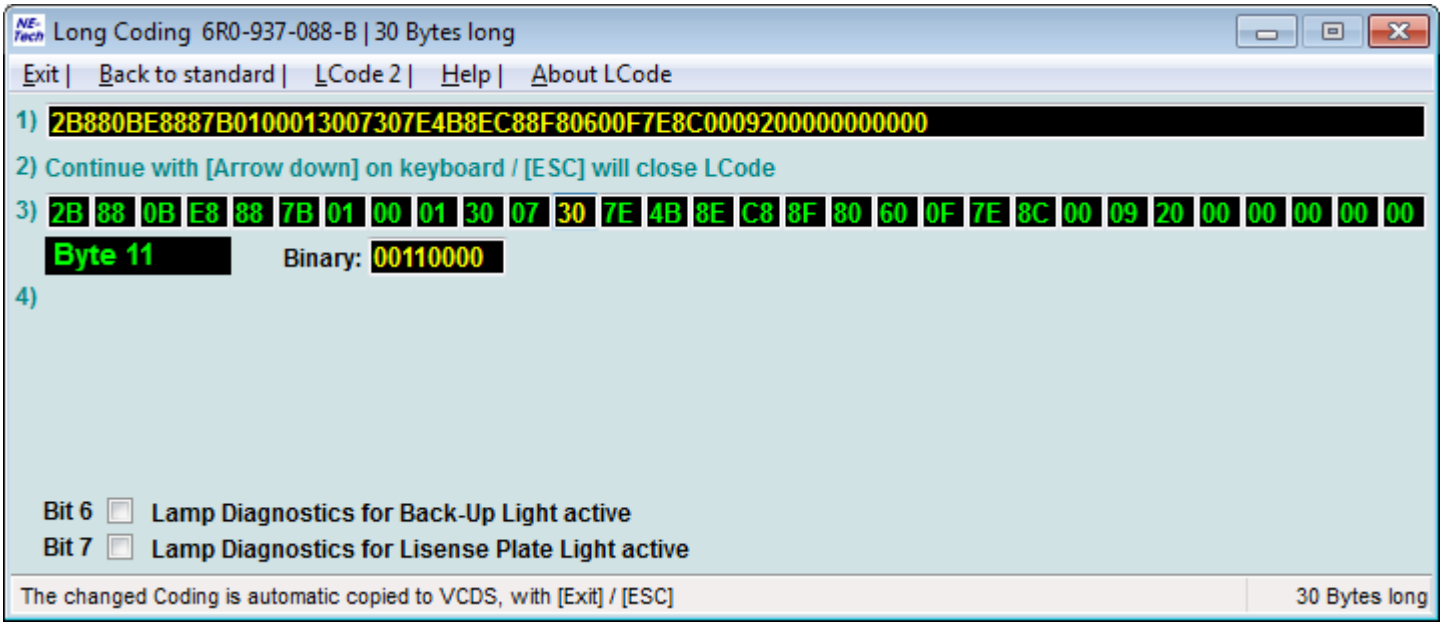


screenshot 4: BCM PQ25 - Byte 10

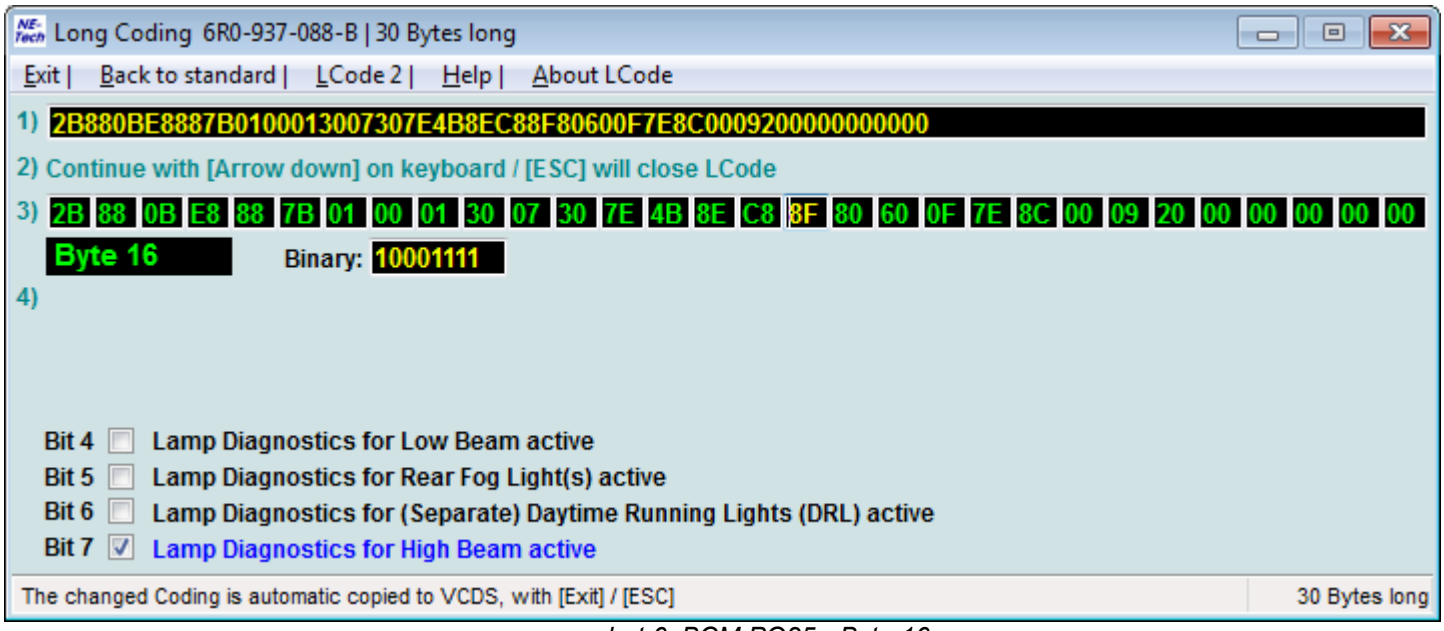
3.2 Lamp Diagnostics

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 11, 16 en 19
Bit: Several.
Purpose: These bits seem to dis-/enable when the lamp diagnostic light in the dashboard lights up. I have not tested this completely. It might be useful when custom light bulbs (non CAN LED's?) are placed and the diag. light comes on in the dash.

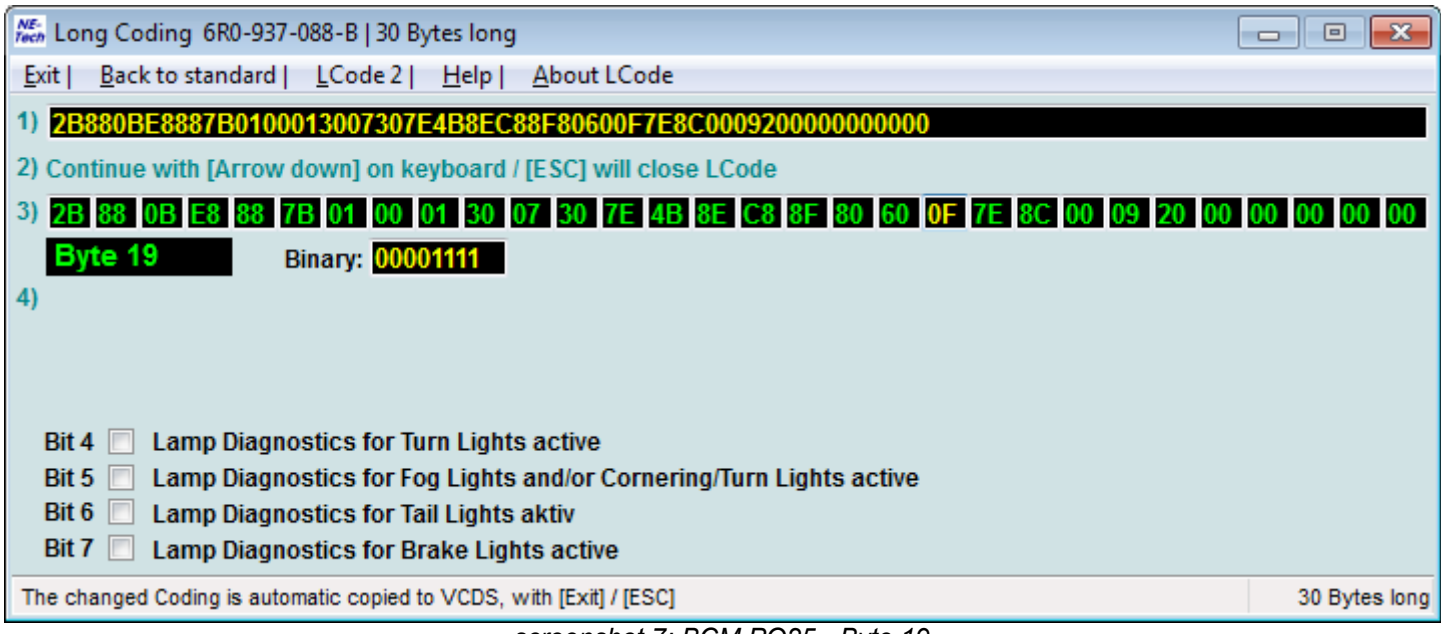
Update May 28 2011: The 6J has 4 sidelights. A SO-forum member had replaced these with CAN bus LED lights. As soon as one of the inner sidelights was replaced the diag. light in the dash came on. We've tried several different settings with these bytes but we couldn't convince the diag. light to stay off... We even tried setting the not-documented bits to 0 on all the three bytes, with all the four sidelights replaced, didn't help... :(



screenshot 5: BCM PQ25 - Byte 11



screenshot 6: BCM PQ25 - Byte 16



screenshot 7: BCM PQ25 - Byte 19

3.3 Disable interior light at key removal

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 12
Bit: 2
Purpose: When this bit is set to 0 the interior light will probably not come on when the key is removed from the ignition switch. Refer to screenshot 10: BCM PQ25 - Byte 12. Haven't tested this myself.

3.4 Emergency Flashing Active

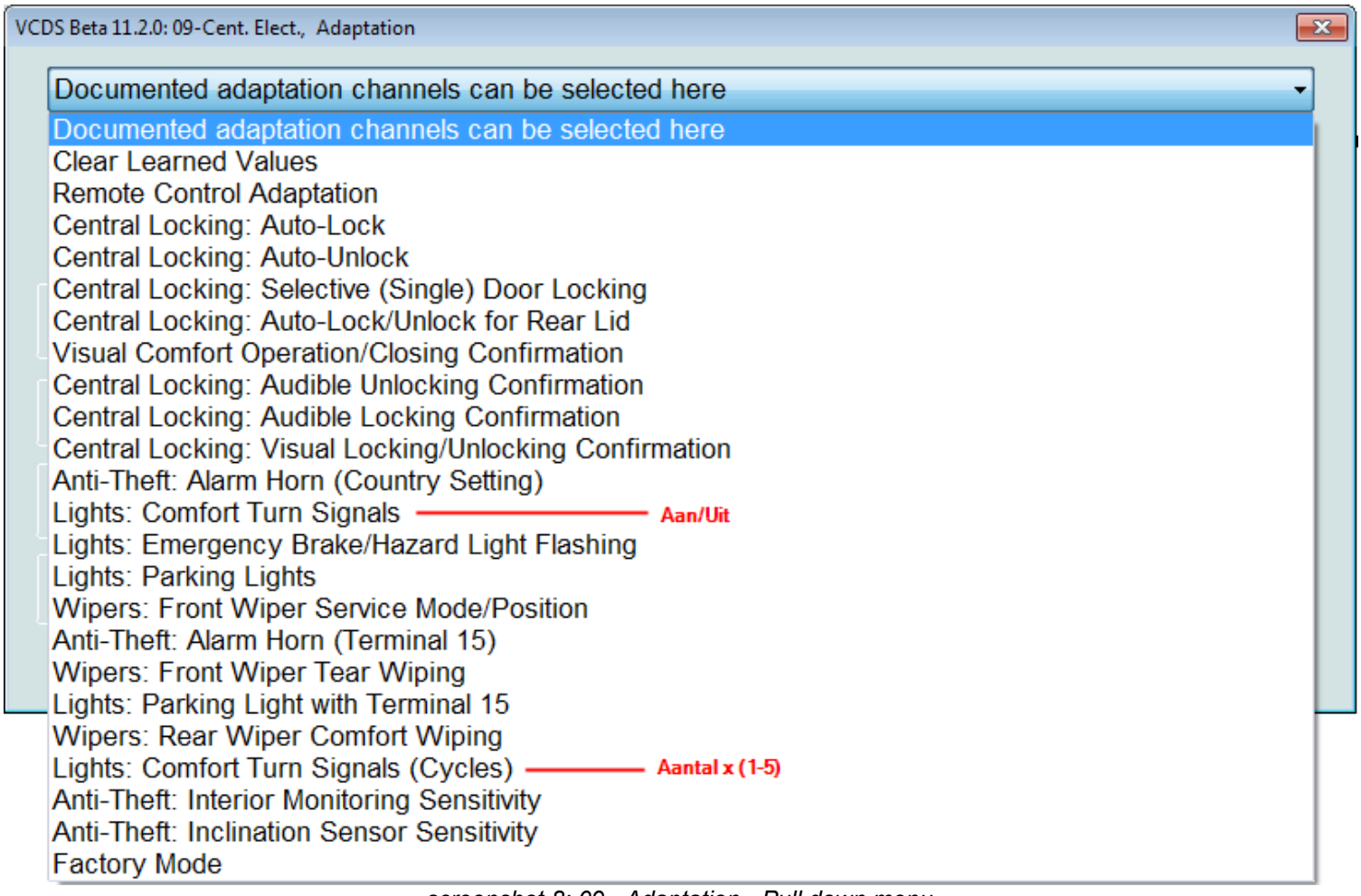
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 12
Bit: 3 en 4
Purpose: The turn signal and break lights flash when the ABS has to work very hard to slow the car down. Haven't tested this myself ;)

3.5 Comfort Turn Signals (CTS)

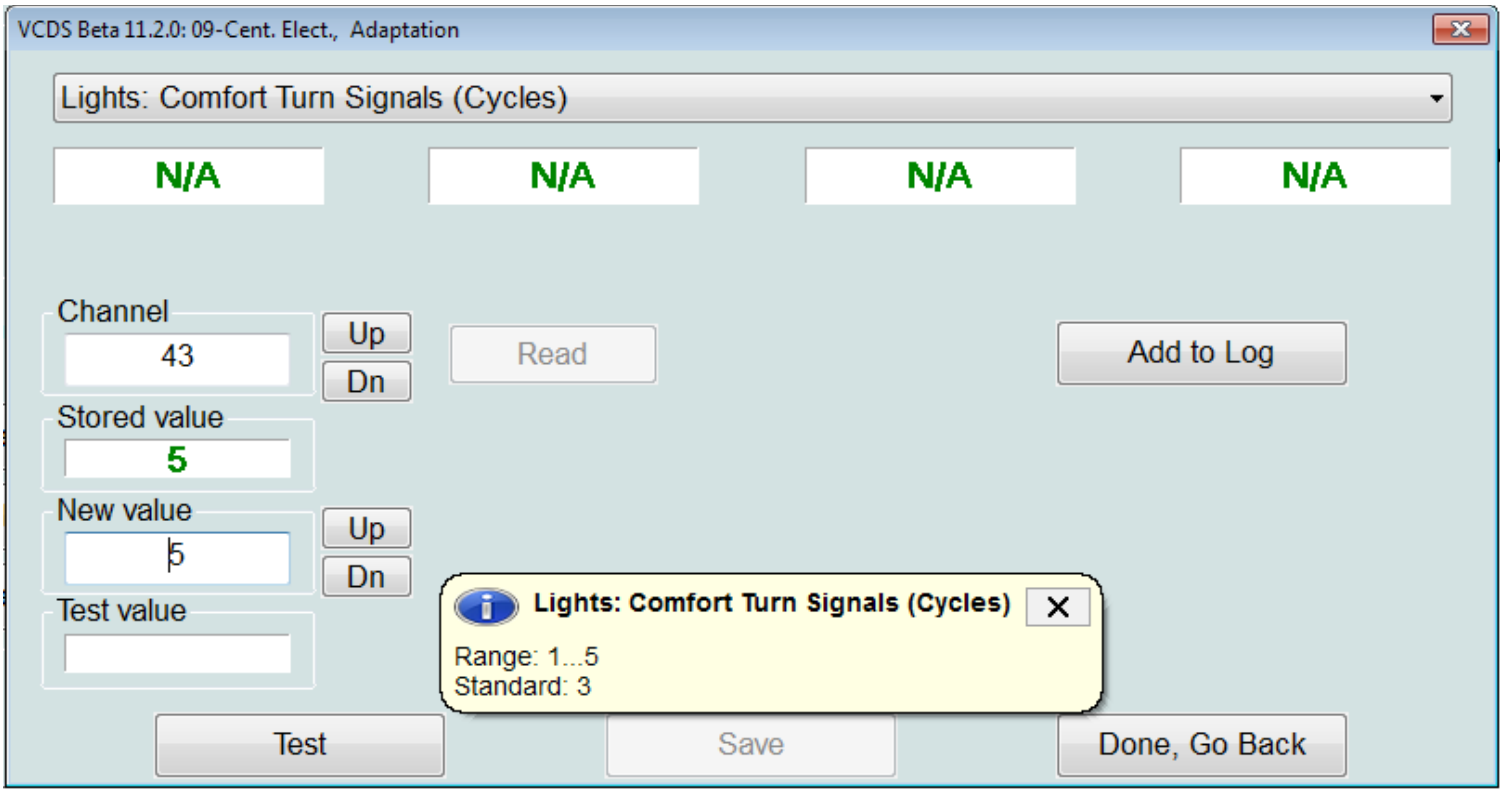
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 12
Bit: 5
Purpose: When the blinker lever is pressed once the turn signals flash by a predetermined number of times. (standard 3). With this byte this option can be disabled by changing the bit to 0. This can also be done via Adaptation, where the number of flashes can be changed as well. Refer to screenshot 10: BCM PQ25 - Byte 12.

Note: In Germany this option is known as 'autobahnblinken'.

Comfort Turn Signals Adaptation
CTS can best be set through Adaptation. It can be enabled/disabled ('aan/uit' in the screenshot) and the number of times or cycles it should flash can be set ('Aantal x' in the screenshot):



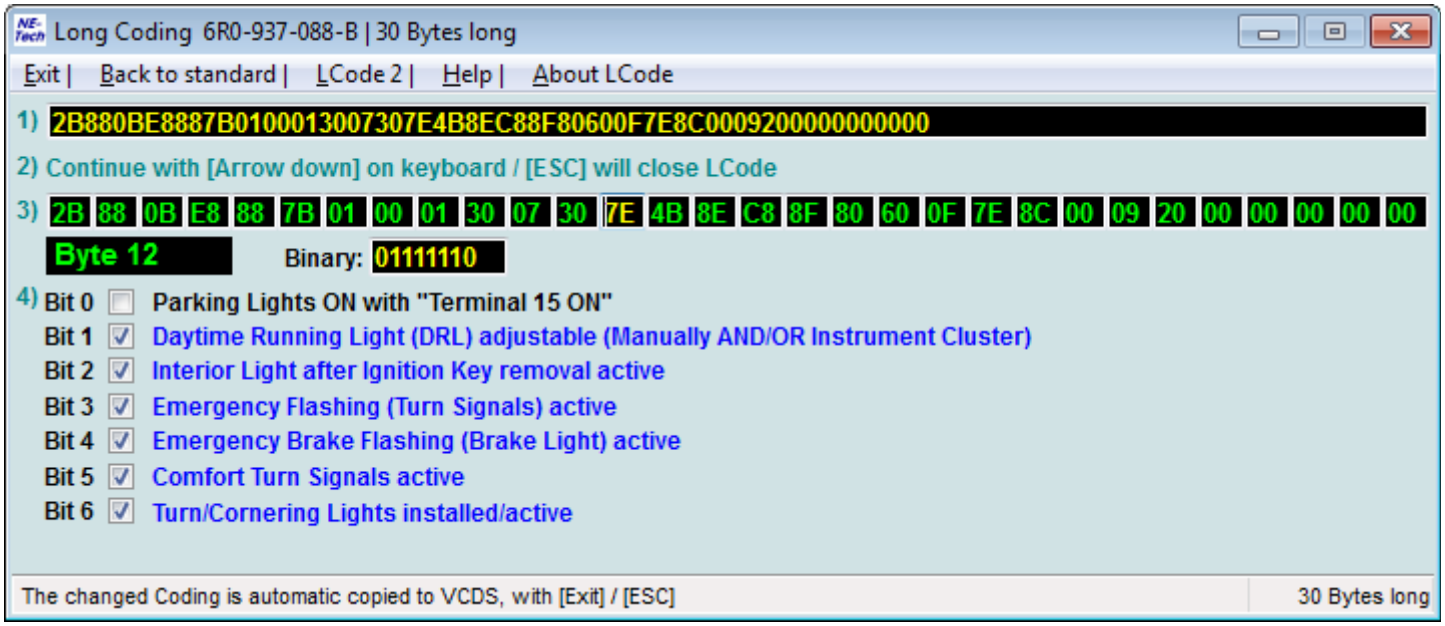
screenshot 8: 09 - Adaptation - Pull down menu



screenshot 9: 09-Adaptation - Comfort Turn Signals (Cycles)

3.6 Cornering lights (on cars with halogen headlights)

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 12
Bit: 6
Purpose: With this bit you can disable the cornering light function which uses the front fog lights. My car has halogen headlights. On cars with Xenon this may work differently.



screenshot 10: BCM PQ25 - Byte 12

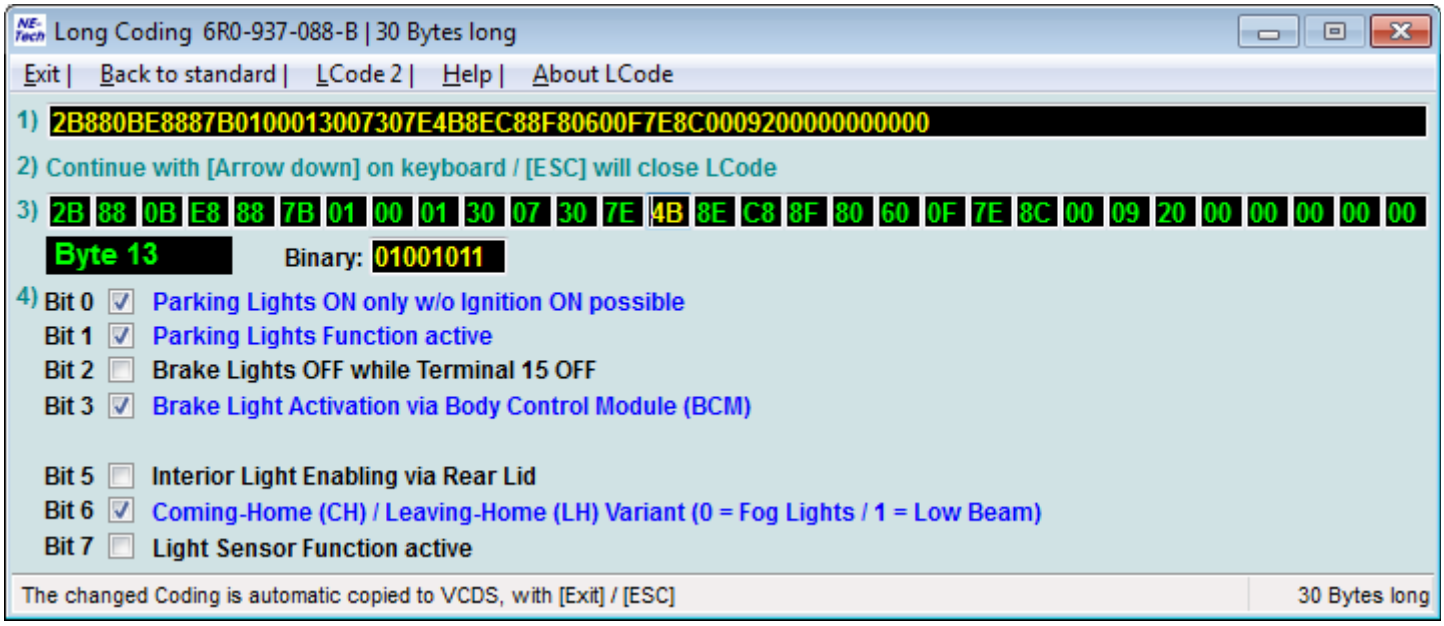
Note: there is an options 'DRL adjustable' in this byte. I'm not sure what it's used for. It probably has something to to with the Light switch with 'auto'-option.

3.7 Coming Home through fog lights or low beam

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 13
Bit: 6
Purpose: Default low beam lights are used for Coming/Leaving Home. With this bit you can change this to fog lights. Refer to 3.1 and screenshot 11: BCM PQ25 - Byte 13.

3.8 Parking lights

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 13
Bit: 0, 1 en 3
Purpose: Dis-/enable the parking lights. Not tested by me.



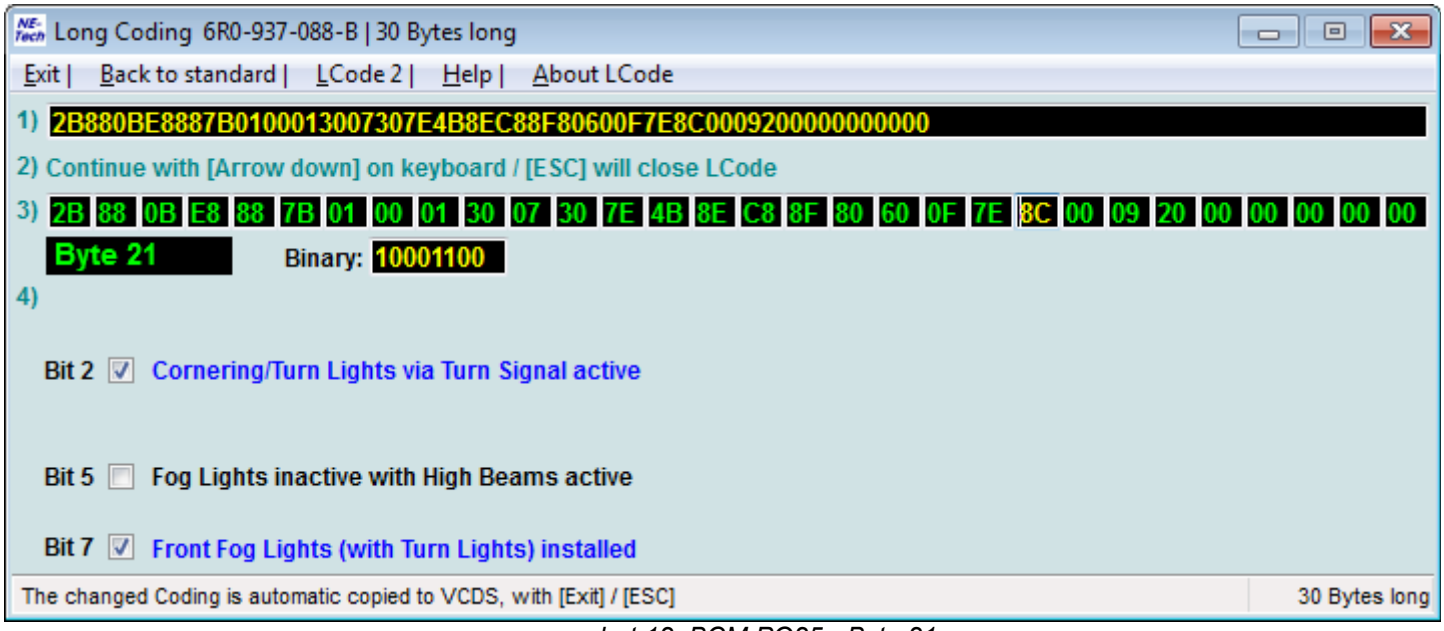
screenshot 11: BCM PQ25 - Byte 13

3.9 Cornering lights when blinker is on

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 21
Bit: 2
Purpose: When the lights are switched on and the car drives less than 20 km/h (or is it 15km/h?) the fog lights can be activated by the car to act as cornering lights. This happens when the steering wheel is turned a certain number of degrees and/or when the blinking lights are switched on. This means the cornering lights are also activated when the car is waiting for a traffic light, the wheels are straight and the blinker is on. Some people find this silly and rather have the cornering lights not active at that time. Use this bit to disable this option. The cornering lights are still activated when the wheel angle is large enough.
See screenshot 12: BCM PQ25 - Byte 21.

3.10 Disable front fog lights

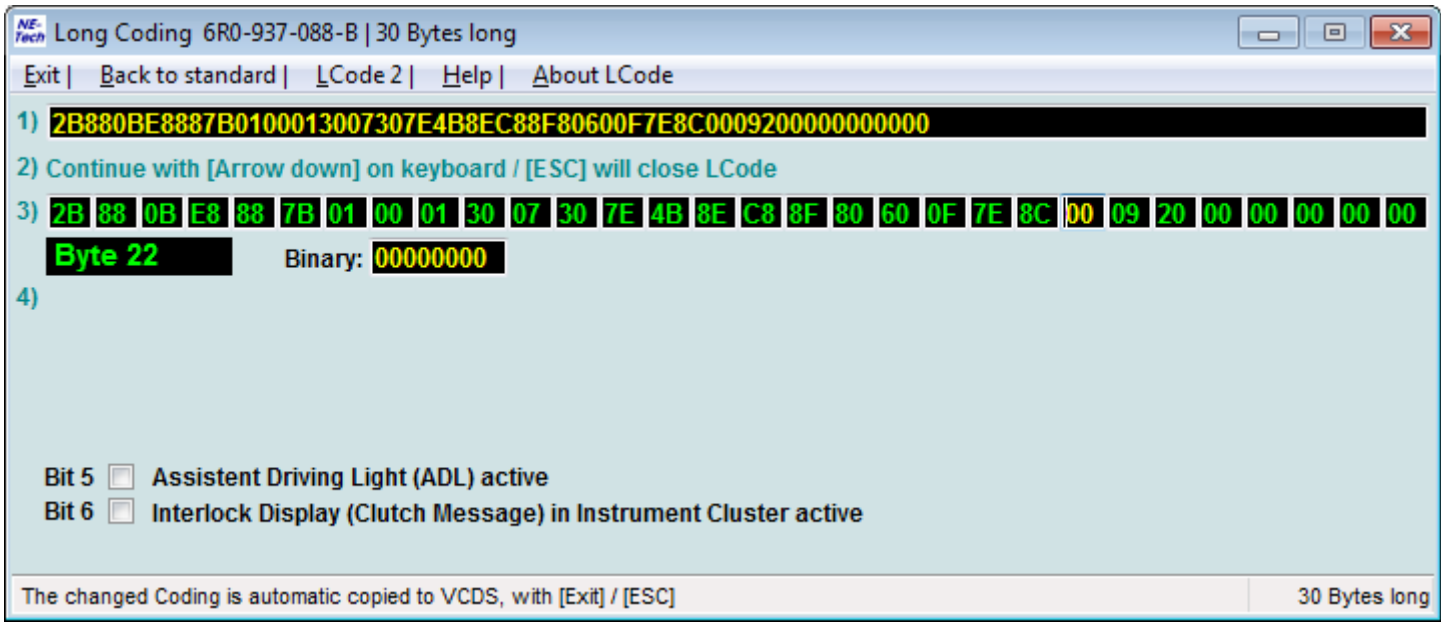
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 21
Bit: 7
Purpose: Disable this bit to disable the front fog lights. AFAIK the cornering lights are still enabled. (see 3.6 Cornering lights (on cars with halogen headlights))
NOTE: I don't think this is right and have to test this. I guess bit 5 disables the fog lights. Not sure what bit 7 does. As I'm currently translating this document into English I leave it for now.



screenshot 12: BCM PQ25 - Byte 21

3.11 Assistent Driving Light active (ADL)

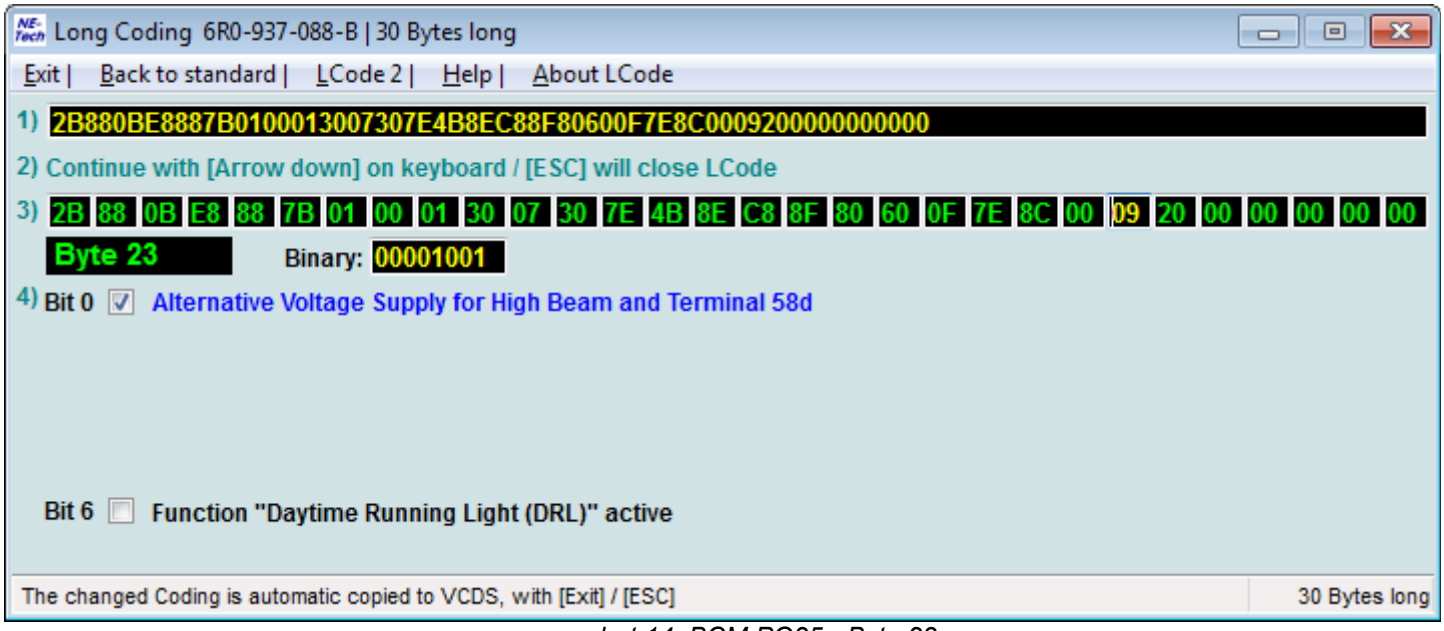
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 22
Bit: 5
Purpose: I guess this disables the use of the light sensor to determine whether the lights should be switched on. Unfortunately I can't test this, see Light switch with 'auto'-option.



screenshot 13: BCM PQ25 - Byte 22

3.12 Daytime Running Lights (DRL)

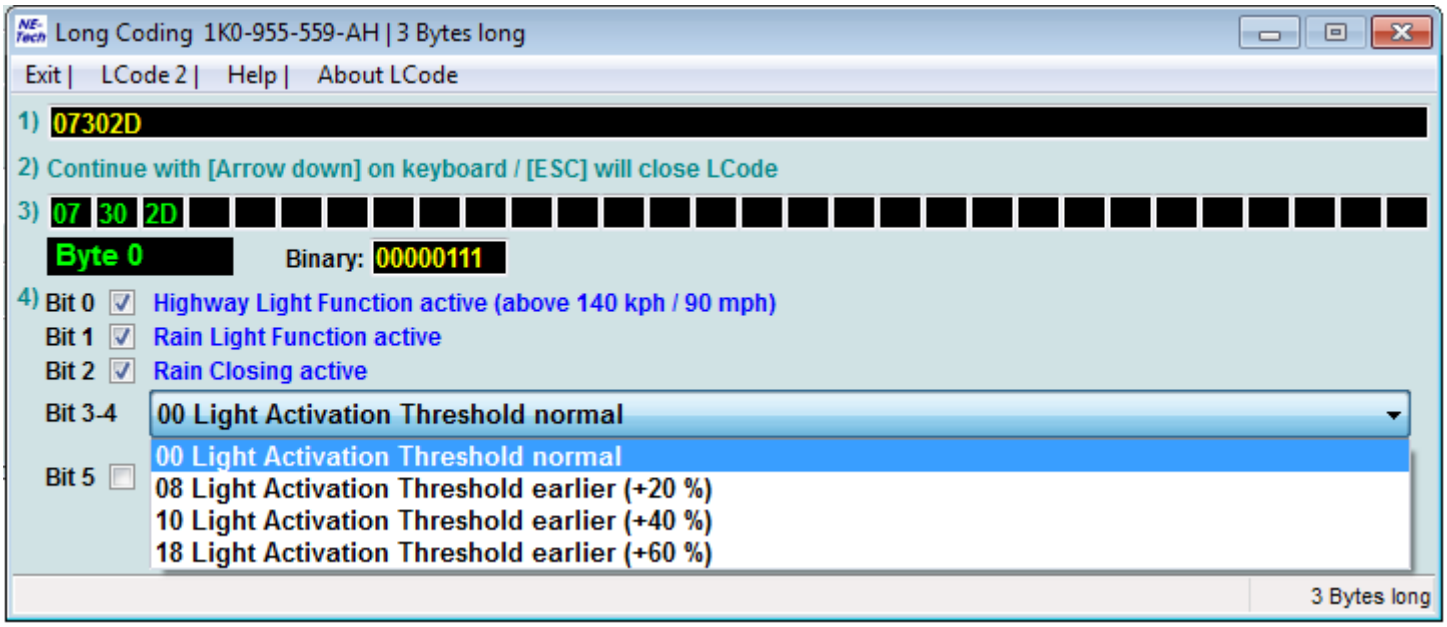
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 23
Bit: 6
Purpose: Switches on the low beam as soon as the ignition is turned on. This way low beams are always active. The rear lights, city lights and dash lights will NOT come on. Unless you have a Light switch with 'auto'-option and it gets dark enough :)



screenshot 14: BCM PQ25 - Byte 23

3.13 Light activation threshold

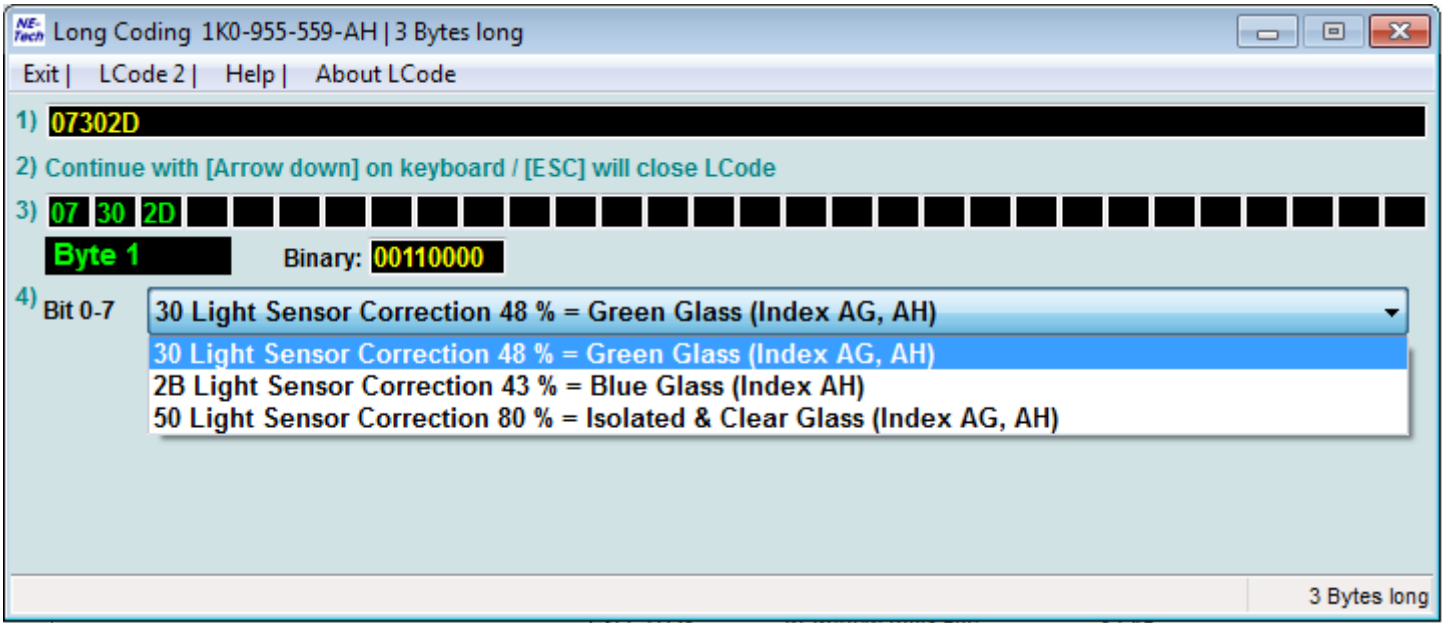
Component: RLS (09 - Cent. Elect.)
Byte: 0
Bit: 3-4
Purpose: When you have a Light switch with 'auto'-option the car determines when the lights should go on. With these two bits you can make the lights go on earlier.



screenshot 15: 09-RLS byte 0 light activation threshold

3.14 Light Sensor Correction

Component: RLS (09 - Cent. Elect.)
Byte: 1
Bit: 0-7
Purpose: Here the sensitivity of the light sensor can be changed. If you ever have to replace the windshield... Refer to 4.5 as well. (better not fiddle with this to much...)



screenshot 16: 09-RLS Byte 1 – Light sensor correction

3.15 Highway light function

Component: RLS (09 - Cent. Elect.)
Byte: 0
Bit: 0
Purpose: Guess this will turn on the lights when driving at 140 km/h (or faster). Refer to screenshot 18: RLS - Byte 0.

4 Wipers/Rain sensor

4.1 Rain sensor

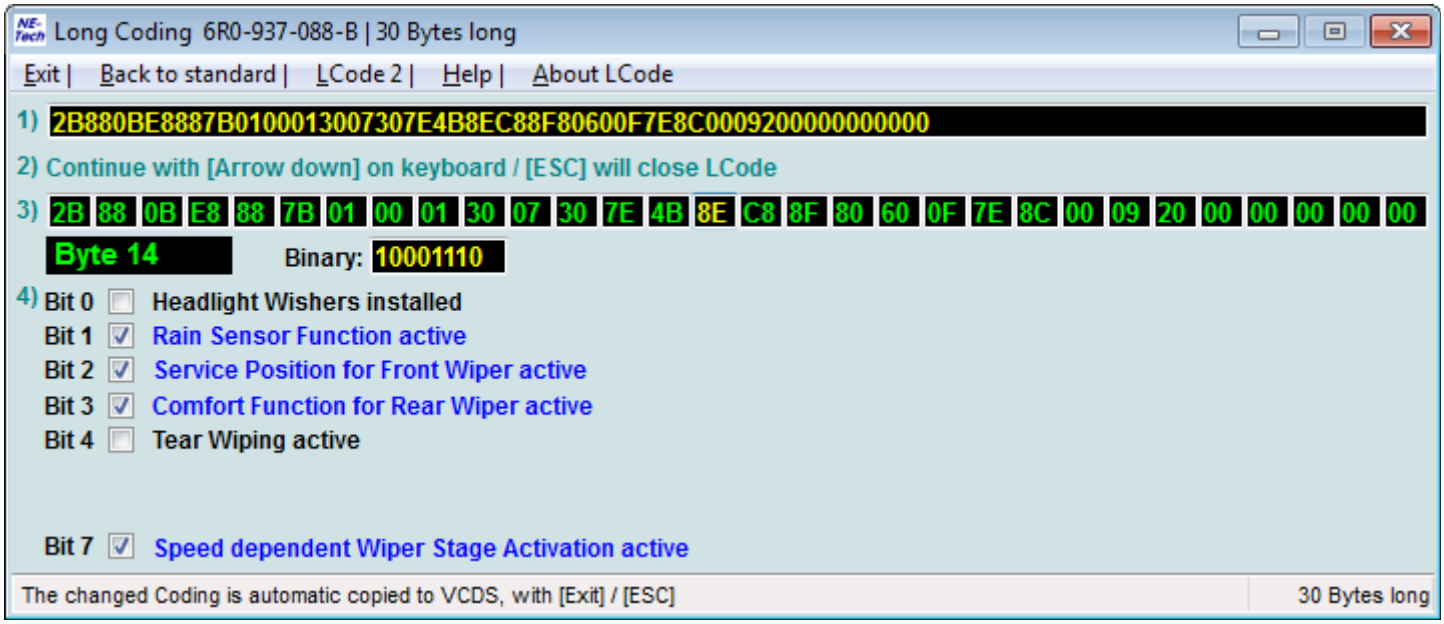
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 14
Bit: 1
Purpose: Enable/disable the rain sensor. The rain sensor is an extra option. Refer to screenshot 17: BCM PQ25 - Byte 14.

4.2 Rear wiper when gear put in reverse

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 14
Bit: 3
Purpose: Disable this bit if you don't what the rear wiper to be engaged once when the gear is put in reverse and the front wipers are enabled. Refer to screenshot 17: BCM PQ25 - Byte 14.

4.3 Tear wiping (front)

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 14
Bit: 4
Purpose: After the windscreen washer is used the wipers go back and forth several times. A few seconds later the screen is wiped again (tear wiping). The latter can be enabled/disabled with this bit.

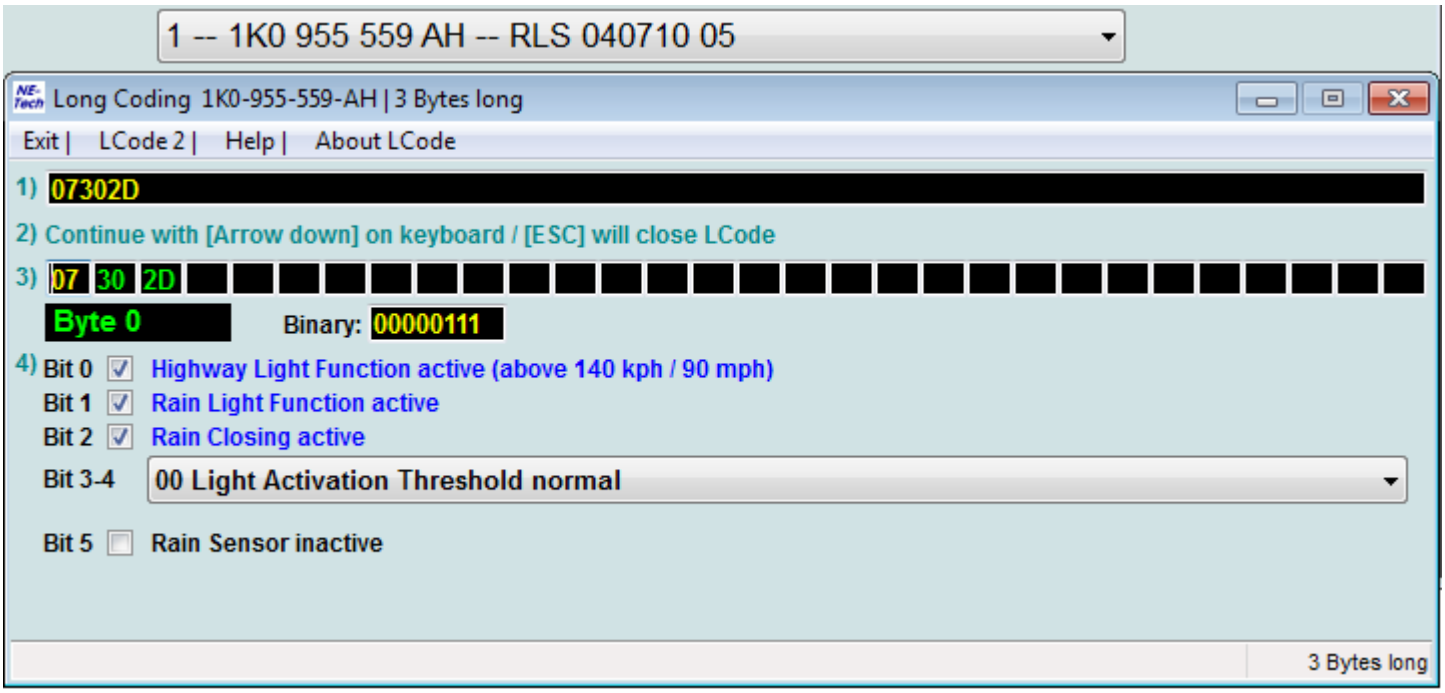


screenshot 17: BCM PQ25 - Byte 14

4.4 Rain close

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 4
Bit: 6
Component: RLS (09 - Cent. Elect.)
Byte: 0
Bit: 2
Purpose: The car windows can be opened either by hand or remote (keep close button pressed for the right result). When the car is equipped with a rain sensor it can close the windows when it starts raining. Set these TWO bits to enable this feature.
NOTE: Coding should be done in **two** different components:

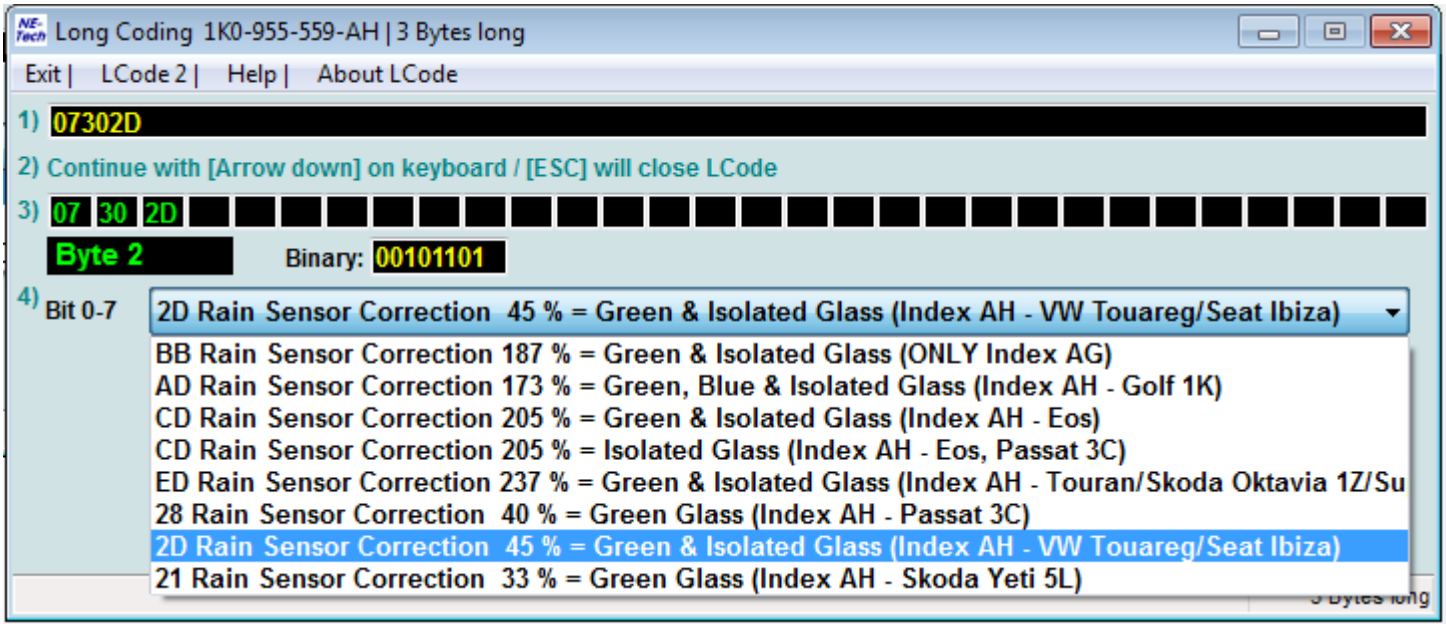
In BCM PQ25 (screenshot 2: BCM PQ25 - Byte 4) **and** RLS (screenshot 18: RLS - Byte 0)



screenshot 18: RLS - Byte 0

4.5 Rain sensor correction

Component: RLS (09 - Cent. Elect.)
Byte: 2
Bit: 0-7
Purpose: With this pull down menu the sensitivity of the rain sensor can be altered to match the new windscreen you just installed. See below and refer to 3.14. (probably best left alone...)

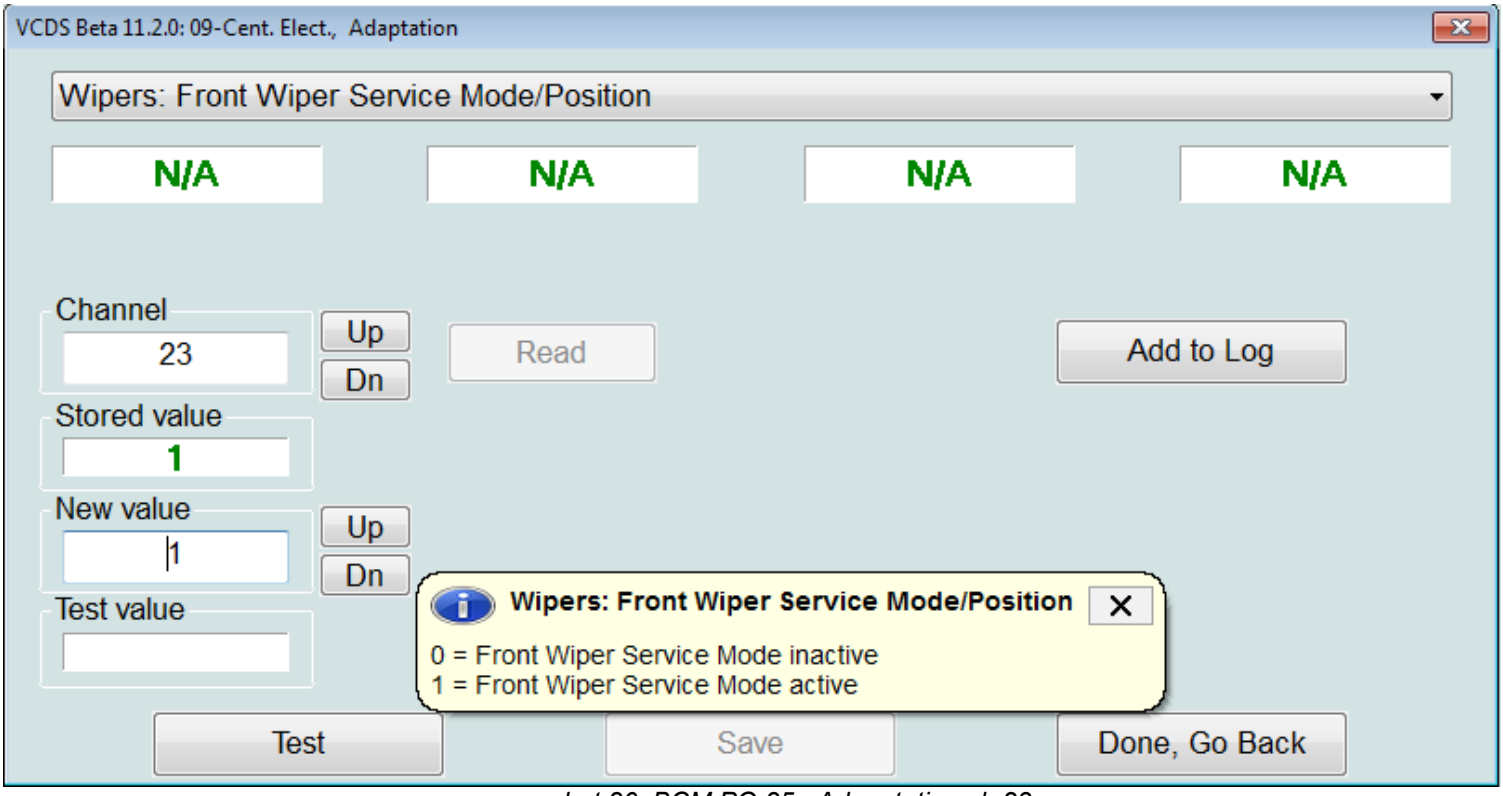


screenshot 19: 09-RLS Byte 2 – type of windscreen installed

4.6 Front Wiper Service Mode/Position

Component: BCM PQ25 (09 - Cent. Elect.)
Adaptation: Wipers: Front Wiper Service Mode/Position
Purpose: If you can't put the wipers in service mode, maybe this option is set to 0. The service mode is necessary when you want to change the blades.

Service mode, translated from Dutch user manual:
"To replace the wiper blades they have to be in the service position.
- Check that the wiper blades are not frozen.
- Switch the ignition on and off and (within 9 seconds)
pull the wiper lever towards you (enable washer). The wiper blades
will move to the service position. "

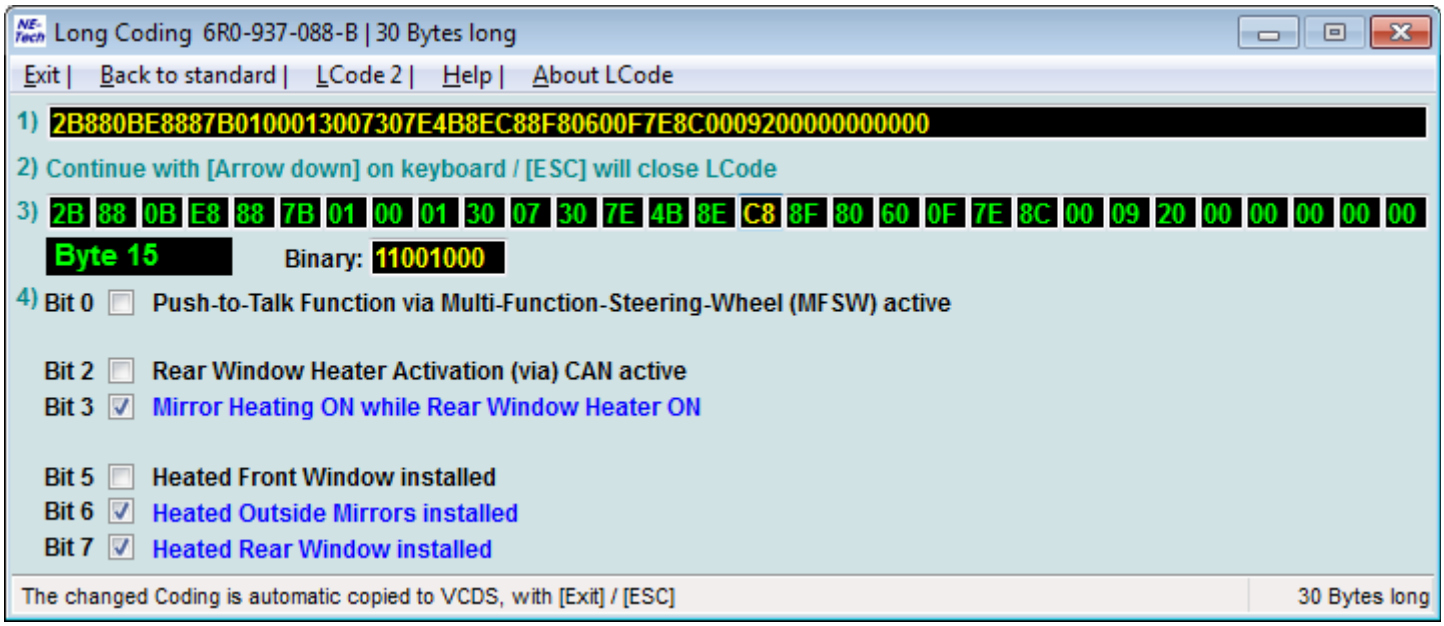


screenshot 20: BCM PQ 25 - Adapatation ch 23

5 Outside mirrors/rear window heating

5.1 Heated outside mirrors

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 15
Bit: 3
Purpose: Enable/disable heating function of the outside mirrors.



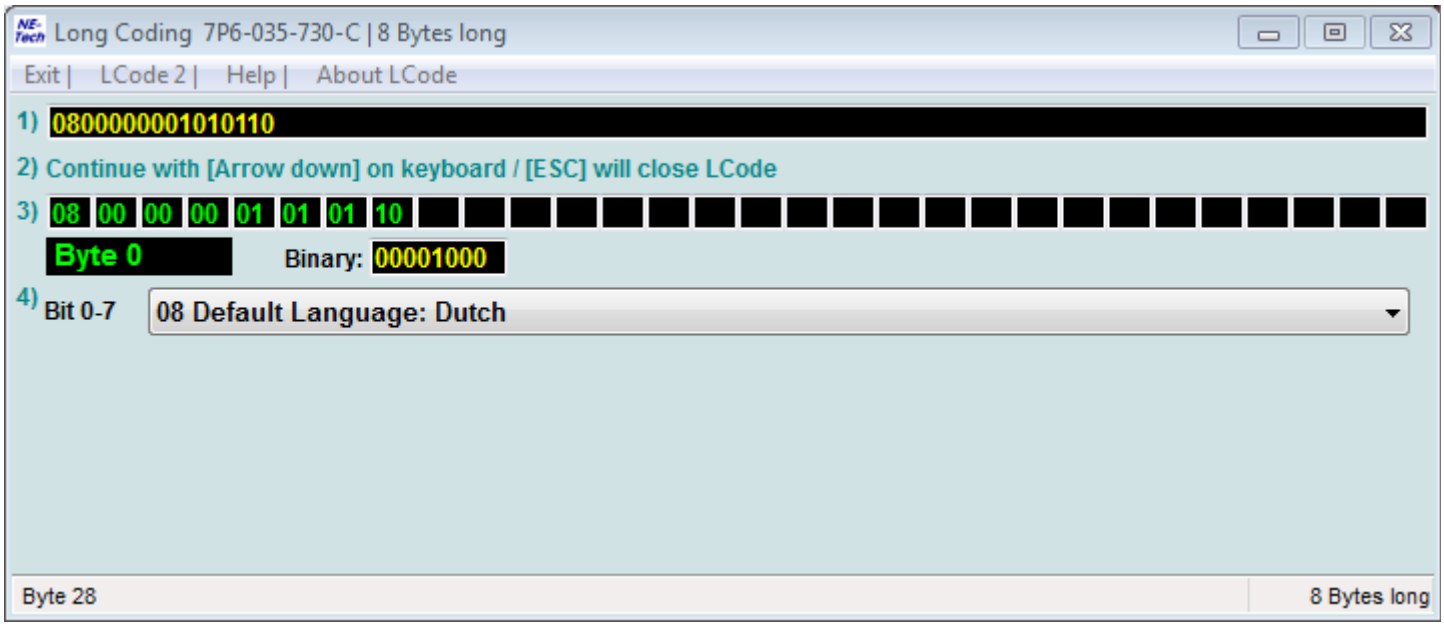
screenshot 21: BCM PQ25 - Byte 15

FYI: a number of other changes regarding the outside mirrors and rear window heating can be made here.

6 Telephone & Bluetooth

6.1 Language speech recognition

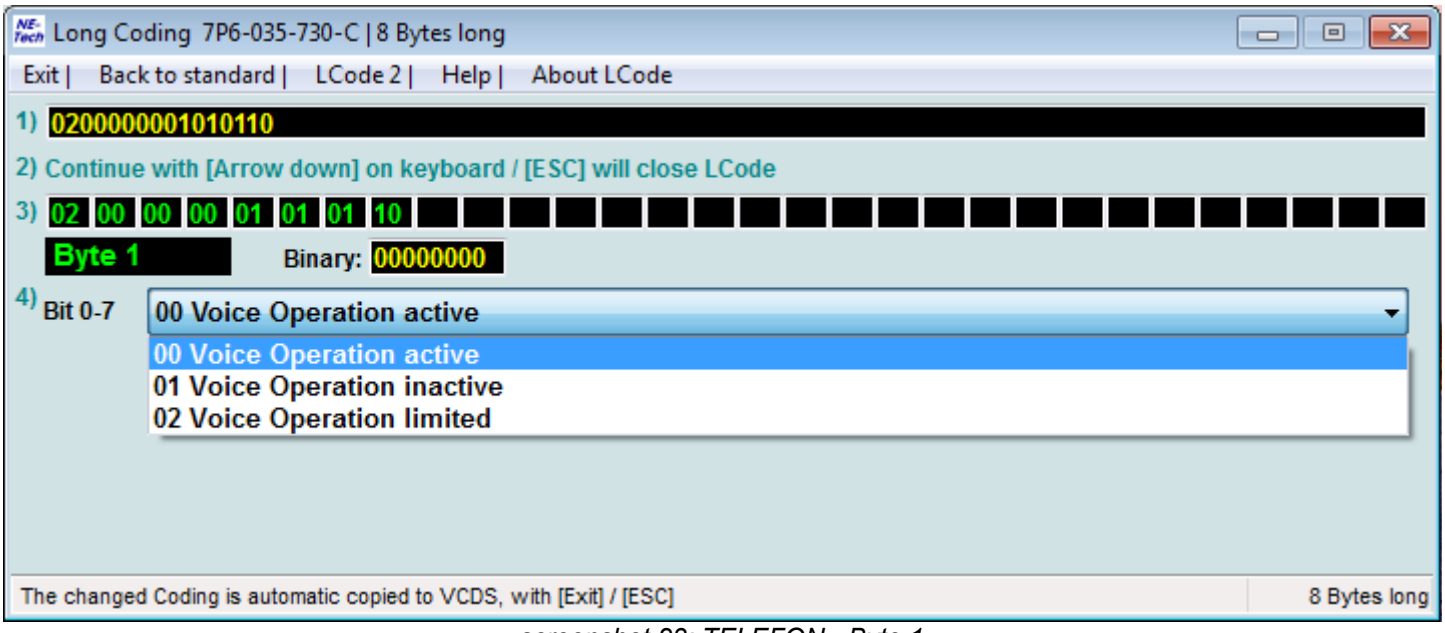
Component: TELEFON H05 0440 (77 – Telephone)
Byte: 0
Bit: 0-7
Purpose: Here you can set the language for the radio voice and speech recognition. Change this AFTER setting the dash language (7.5) as that changes this setting as well.



screenshot 22: TELEFON - Byte 0

6.2 Voice operation

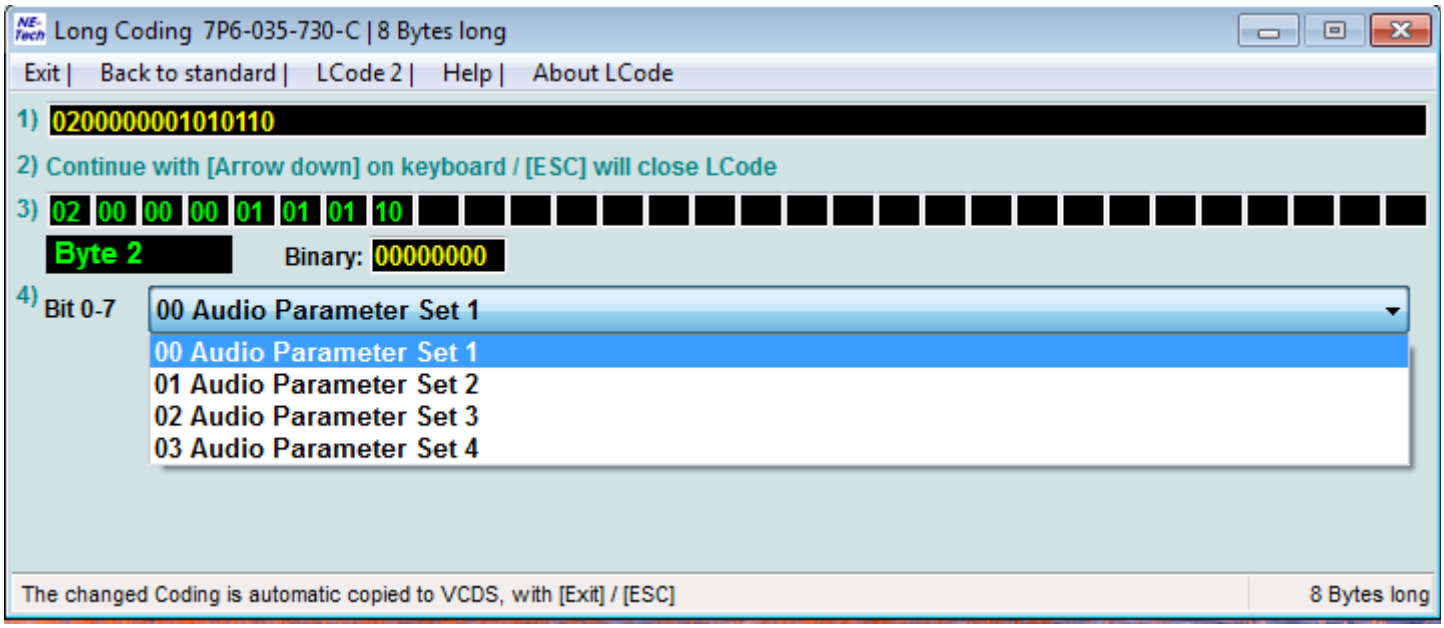
Component: TELEFON H05 0440 (77 – Telephone)
Byte: 1
Bit: 0-7
Purpose: FYI. Not sure what this does.



screenshot 23: TELEFON - Byte 1

6.3 Audio parameter set

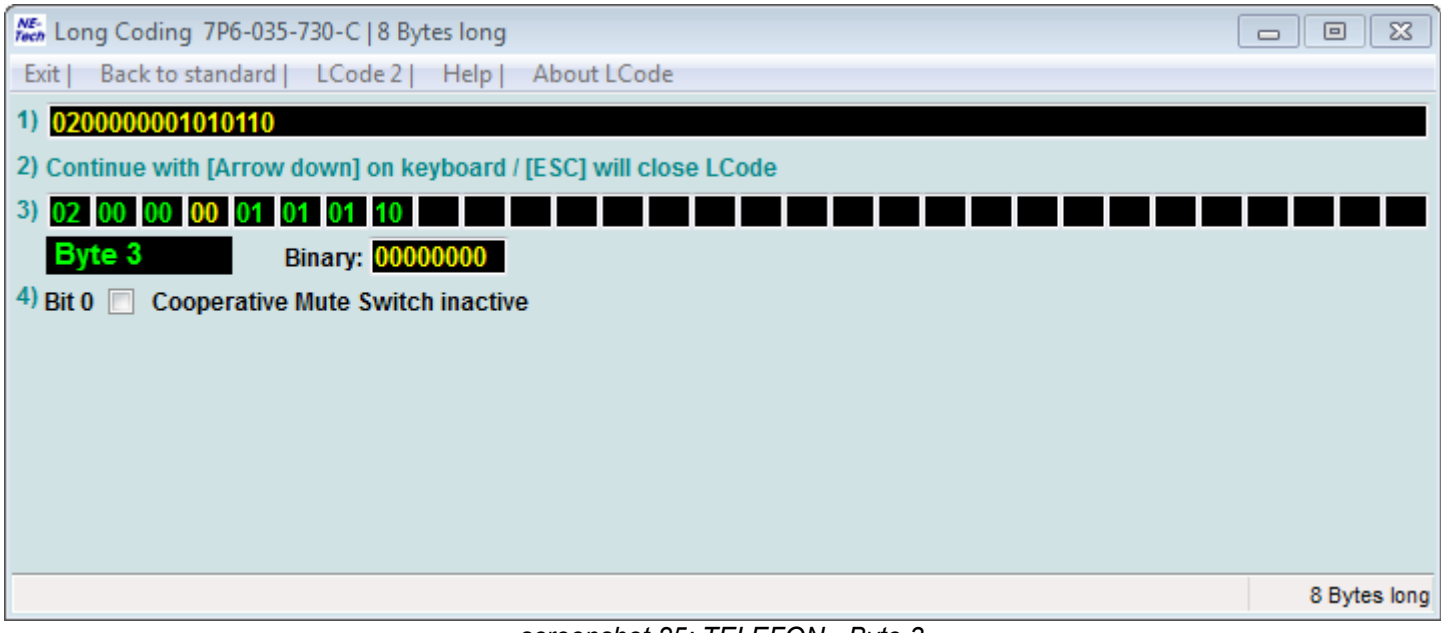
Component: TELEFON H05 0440 (77 – Telephone)
Byte: 2
Bit: 0-7
Purpose: FYI. Not sure what this does. Maybe improve the voice recognition? Doesn't activate other voices (in Dutch anyway). Please let me know if you find out.



screenshot 24: TELEFON - Byte 2

6.4 Cooperative mute switch

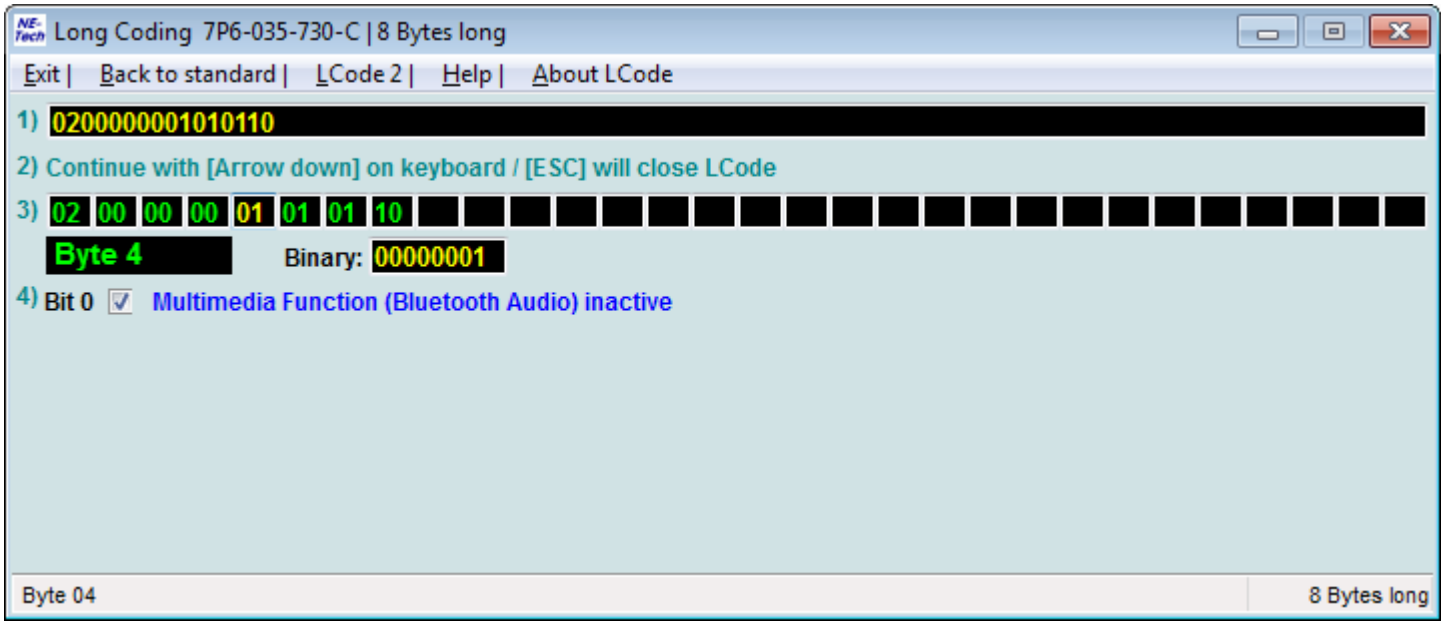
Component: TELEFON H05 0440 (77 – Telephone)
Byte: 3
Bit: 0
Purpose: FYI. No idea...



screenshot 25: TELEFON - Byte 3

6.5 Bluetooth audio (A2DP)

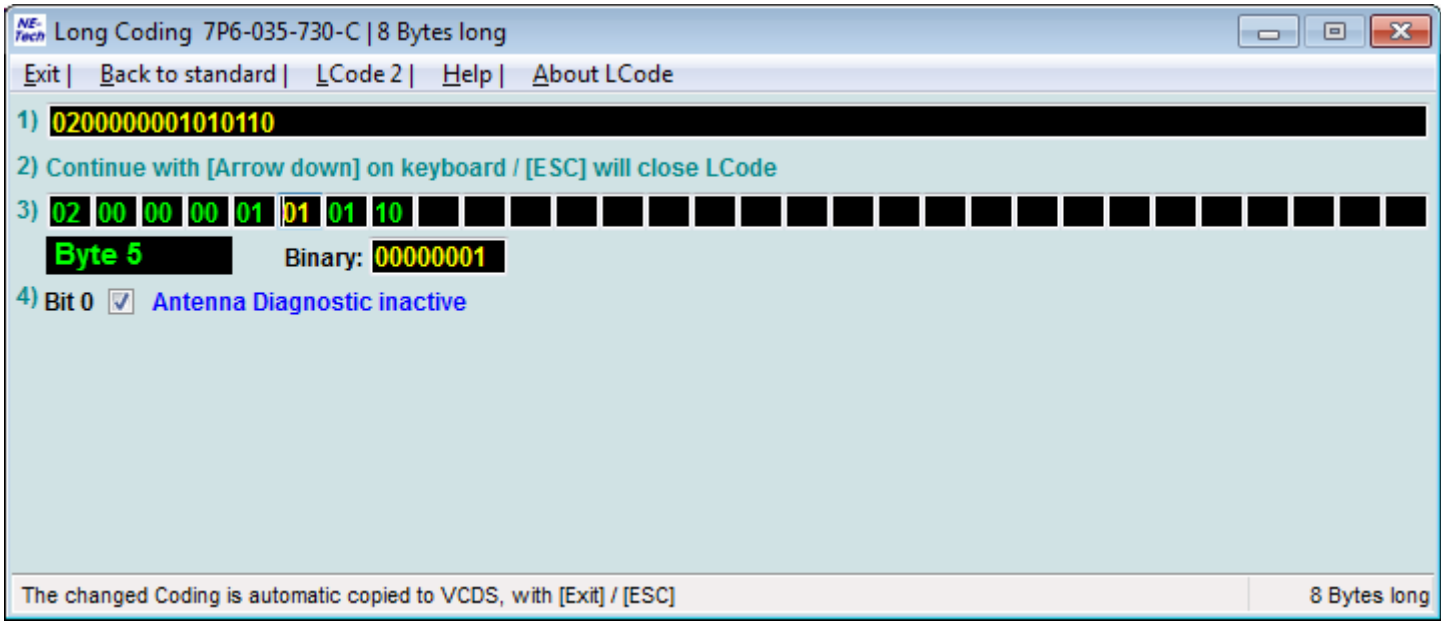
Component: TELEFON H05 0440 (77 – Telephone)
Byte: 4
Bit: 0
Purpose: Disabled at default. Enable this option to play music from your phone/mp3 player/device that supports the t A2DP protocol. Tested with an HTC Wildfire S, Android 2.3.3. Compatibility list, see this topic @SO, of this link to the German Seat site.
NOTE: This bit must be set to 0 (zero of OFF) to ENABLE this option...



screenshot 26: TELEFON - Byte 4

6.6 Bluetooth antenna diagnostic

Component: TELEFON H05 0440 (77 – Telephone)
Byte: 5
Bit: 0
Purpose: FYI: Not tested.

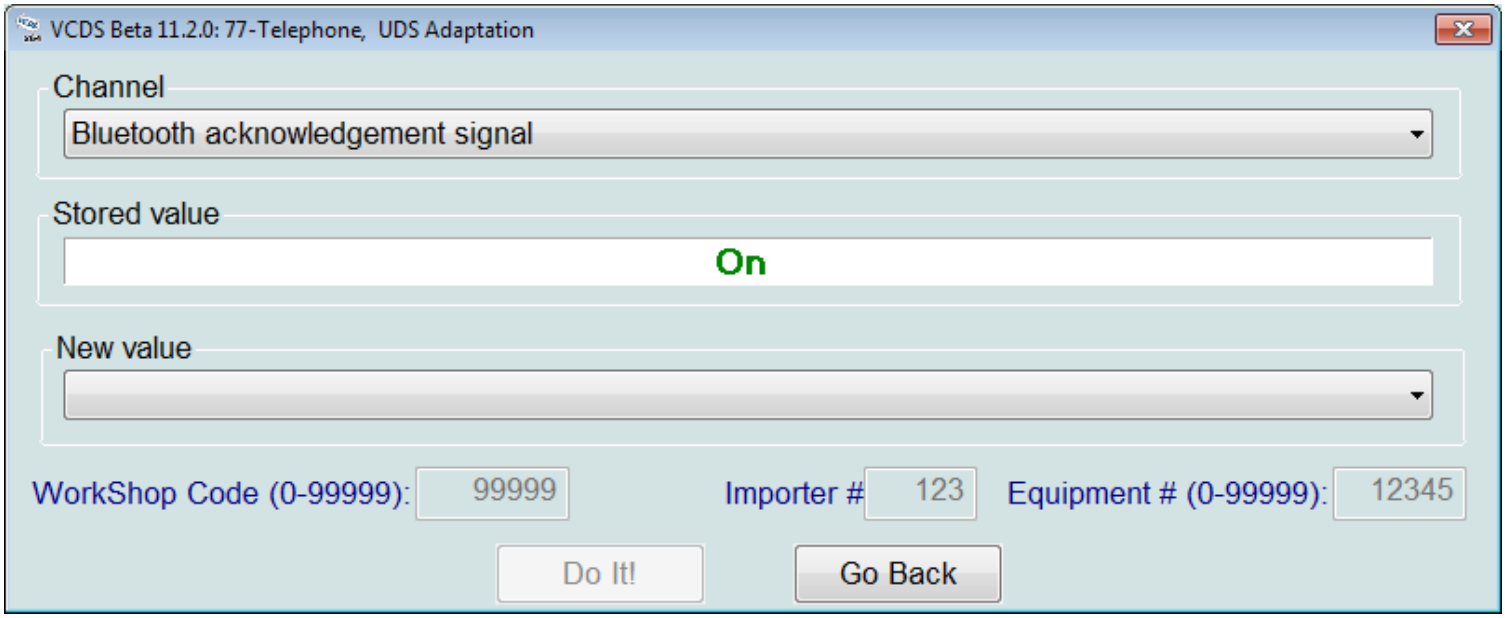


screenshot 27: TELEFON - Byte 5

6.7 Bluetooth acknowledgement signal

Component: TELEFON H05 0440 (77 – Telephone)

Adaptation
Purpose: Enable/disable the signal when successfully connecting to a BT device. When the volume on the radio is turned up this can be rather loud.



screenshot 28: TELEFON - BT ACK

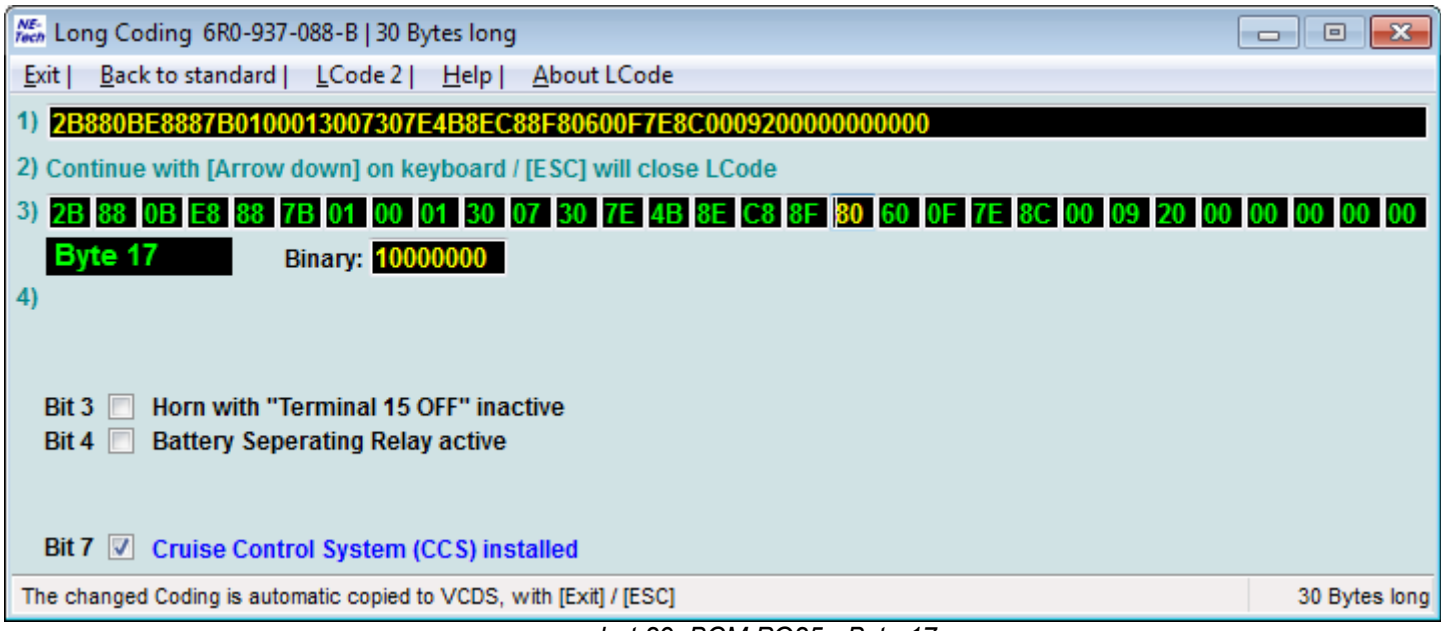
7 Miscellaneous

7.1 Car horn disabled when no key in the ignition

Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 17
Bit: 3
Purpose: Disable the cars horn when the key is removed from the ignition. I have not tested this myself. Might be useful for people who let their children play in their car. Not tested by me. Refer to screenshot 29: BCM PQ25 - Byte 17.

7.2 Cruise Control

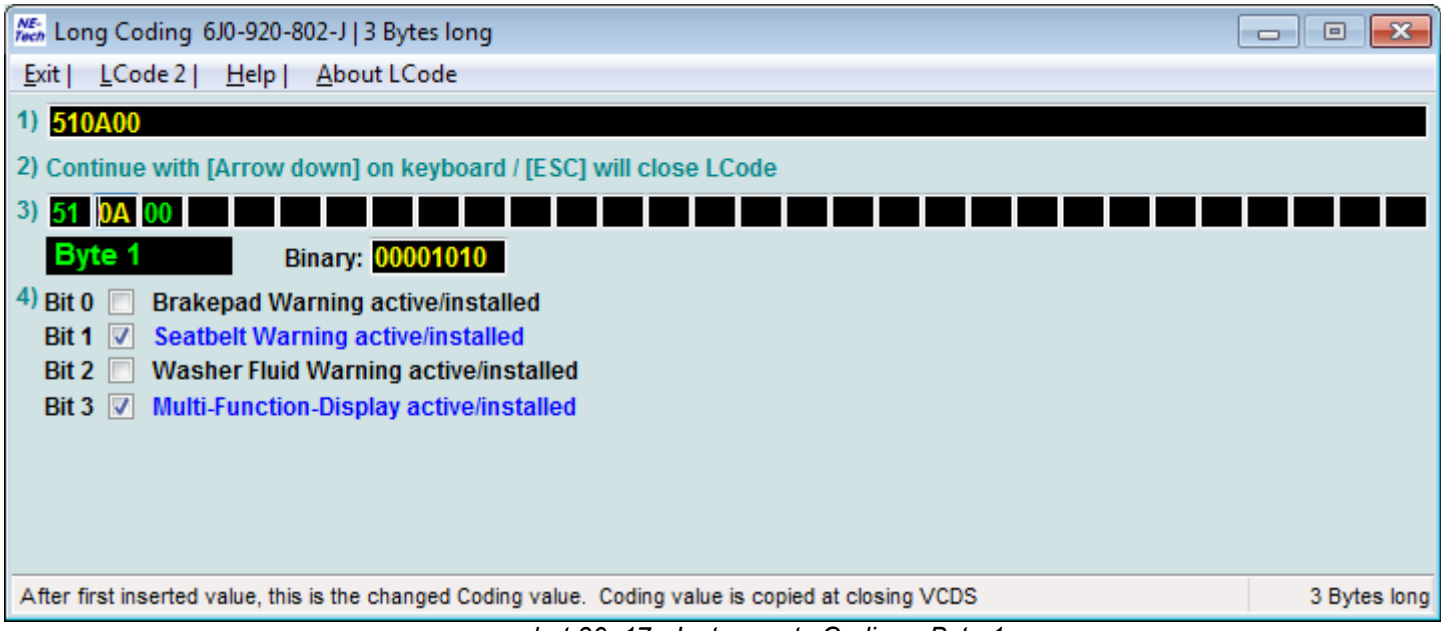
Component: BCM PQ25 (09 - Cent. Elect.)
Byte: 17
Bit: 7
Purpose: Indicates whether Cruise Control is installed. Could disabled CC when set to `0`.



screenshot 29: BCM PQ25 - Byte 17

7.3 Seat belt warning

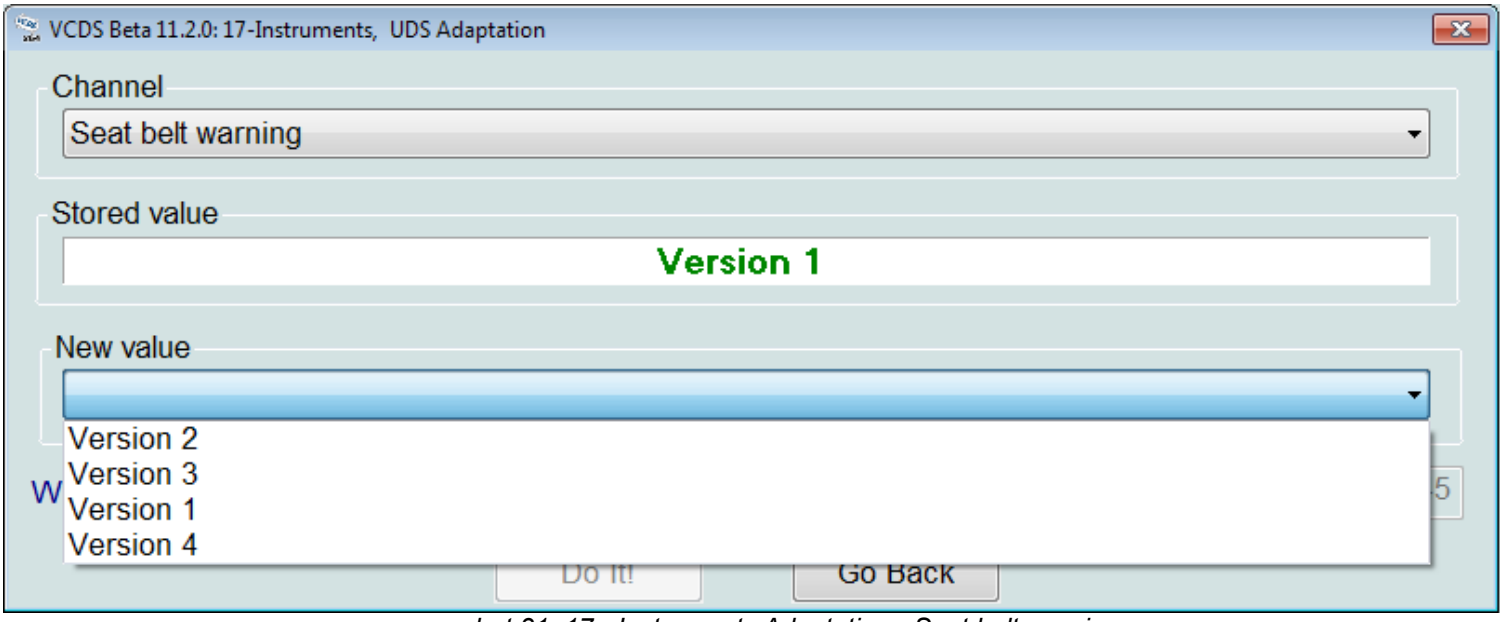
Component: KOMBI H05 0404 (17 – Instruments)
Byte: 1
Bit: 1
Purpose: Disable/enable the seat belt warning. When you drive faster than 15 km/h without wearing a seat belt the car gives a warning sound. (Thanks to Torque for pointing this out).



screenshot 30: 17 - Instruments Coding - Byte 1

7.4 Seat belt warning tone

Component: KOMBI H05 0404 (17 – Instruments)
Adaptation
Purpose: Change the pitch of the seat belt warning tone. (not tested by me).



screenshot 31: 17 - Instruments Adaptation - Seat belt warning

7.5 Language dashboard and Bluetooth (car kit)

Component: KOMBI H05 0404 (17 – Instruments)
Adaptation
Purpose: Changes the language for the text displayed in the MFD (MultiFunctional Display). The language for the BT voice recognition is changed **too**. For cars delivered to the Netherlands, change this to Chinese (!) to get the MFD text in English and the BT language in Dutch. The language for BT can be changed separately in 6.1 Language speech recognition.

screenshot 32: 17 - Instruments Adaptation - Language MFD/bluetooth

7.6 Correction fuel consumption

Component: KOMBI H05 0404 (17 – Instruments)
Adaptation
Purpose: Closer match the fuel consumption displayed in the MFD with real life consumption (i.e. what you 'measure' at the pump).

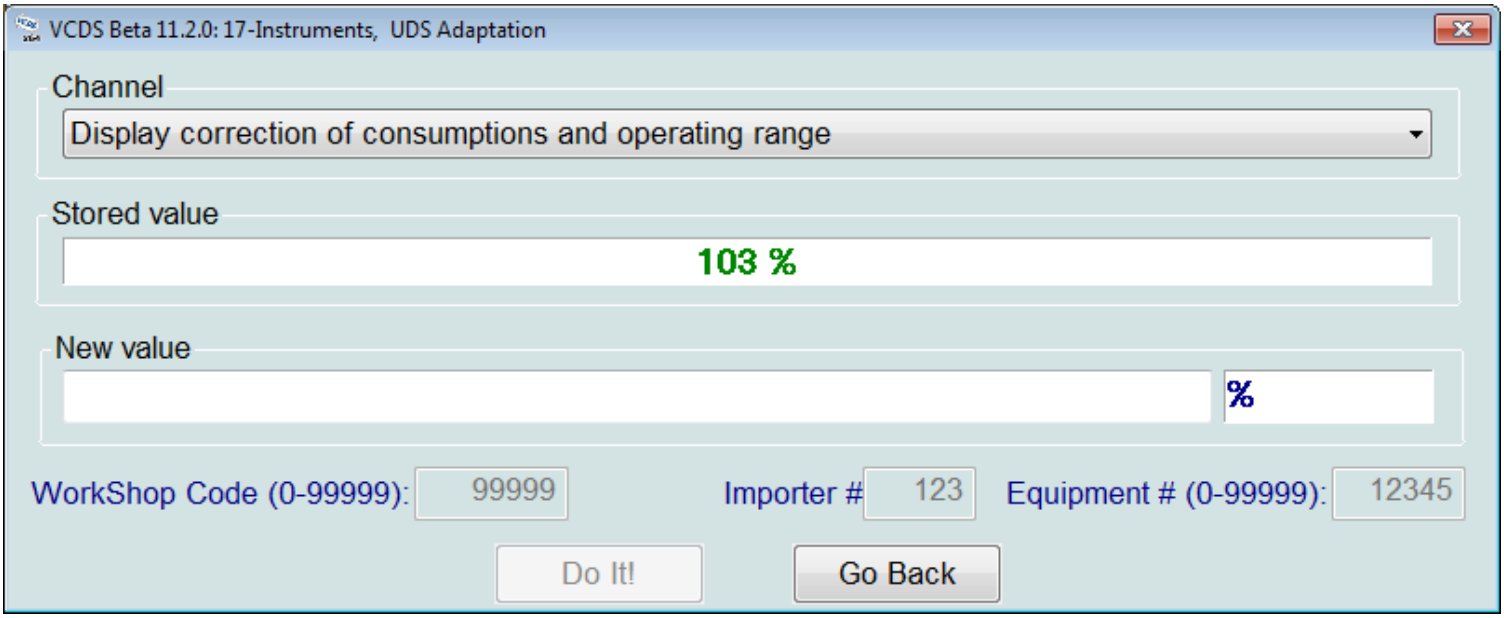
The math:

$Consumption_{Km/l}$ = traveled distance in km / fueled liters

$Consumption_{l/100km}$ = 100 / $Consumption_{Km/l}$

The value you enter in VCDS, when the consumption is displayed in km/liter:
New $value_{VCDS}$ = current $value_{VCDS}$ * $value_{MFD}$ / $Consumption_{Km/l}$

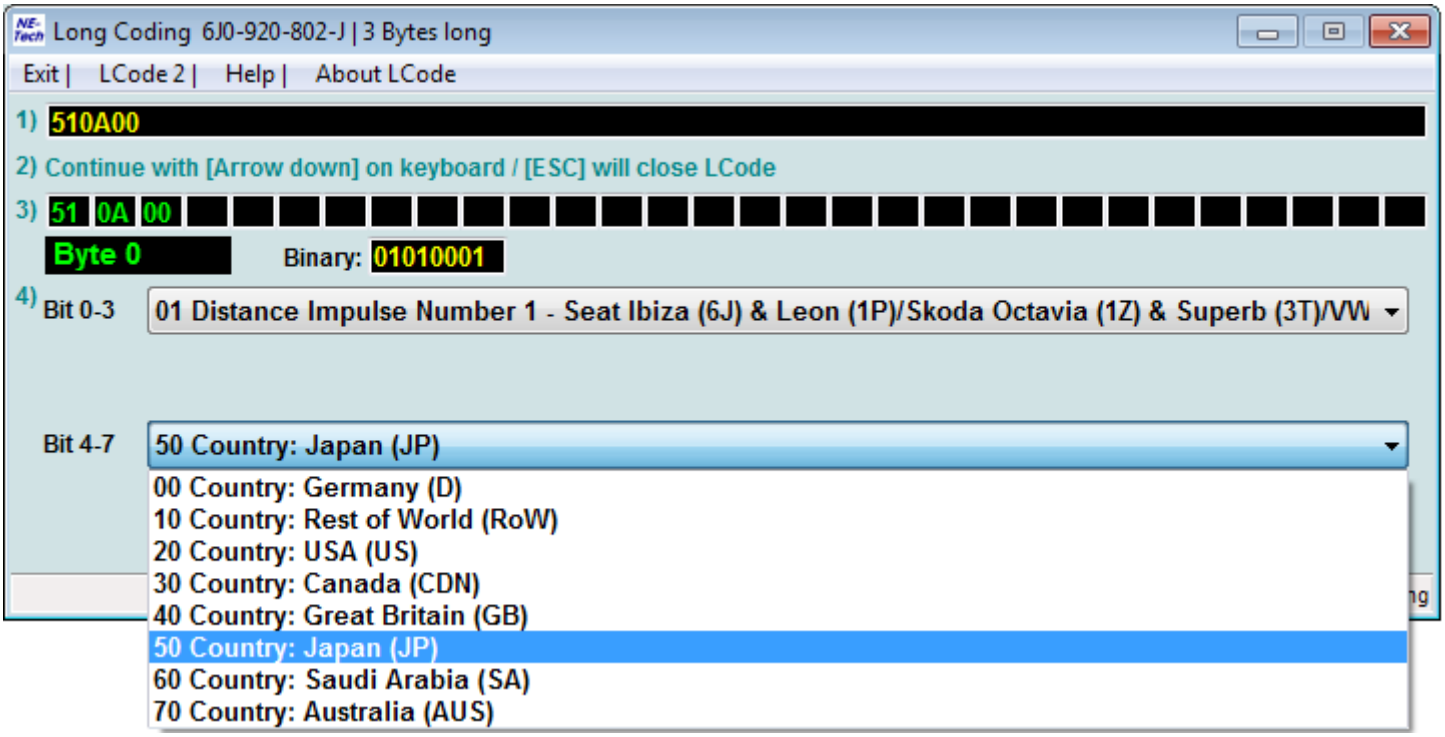
When the consumption is displayed in liters/100km:
New $value_{VCDS}$ = current $value_{VCDS}$ * $Consumption_{/100Km}$ / $value_{MFD}$



screenshot 33: 17 - Instruments Adaptation - Display correction of fuel consumption

7.7 Change display fuel consumption to km/l

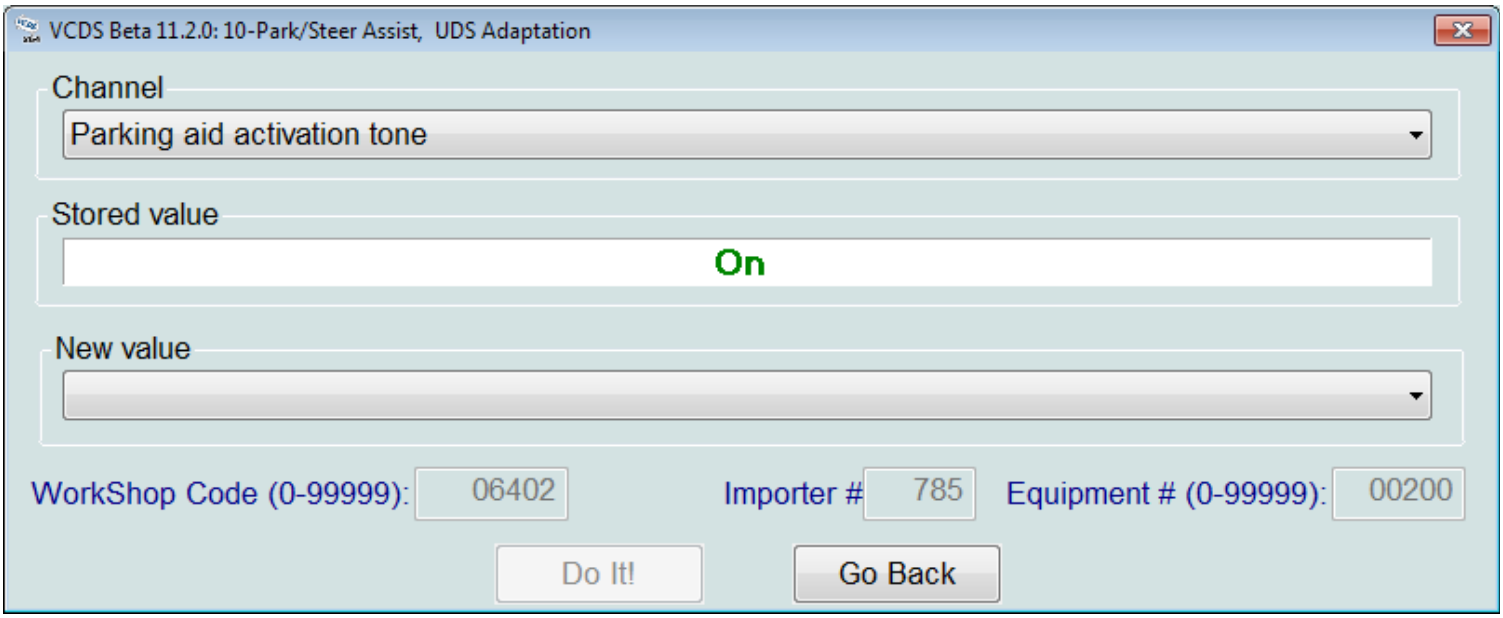
Component: KOMBI H05 0404 (17 – Instruments)
Byte: 0
Bit: 4-7
Purpose: Cars delivered in the Netherlands display the fuel consumption in liters per 100km. This can be modified by changing the language for the MFD this can be changed. By choosing 'Japan' for example fuel consumption is displayed in km per liter and messages in the MFD will be in English. Default is RoW. For details on this setting, i.e. what is changed by this setting, take a look at the site of mr Speek about this subject.
This because this setting also affects the units used to display the temperature (Celsius or Fahrenheit) and distances (km / mile).



screenshot 34: 17 - Instruments - Coding byte 0

7.8 Parking aid activation activation tone (PDC)

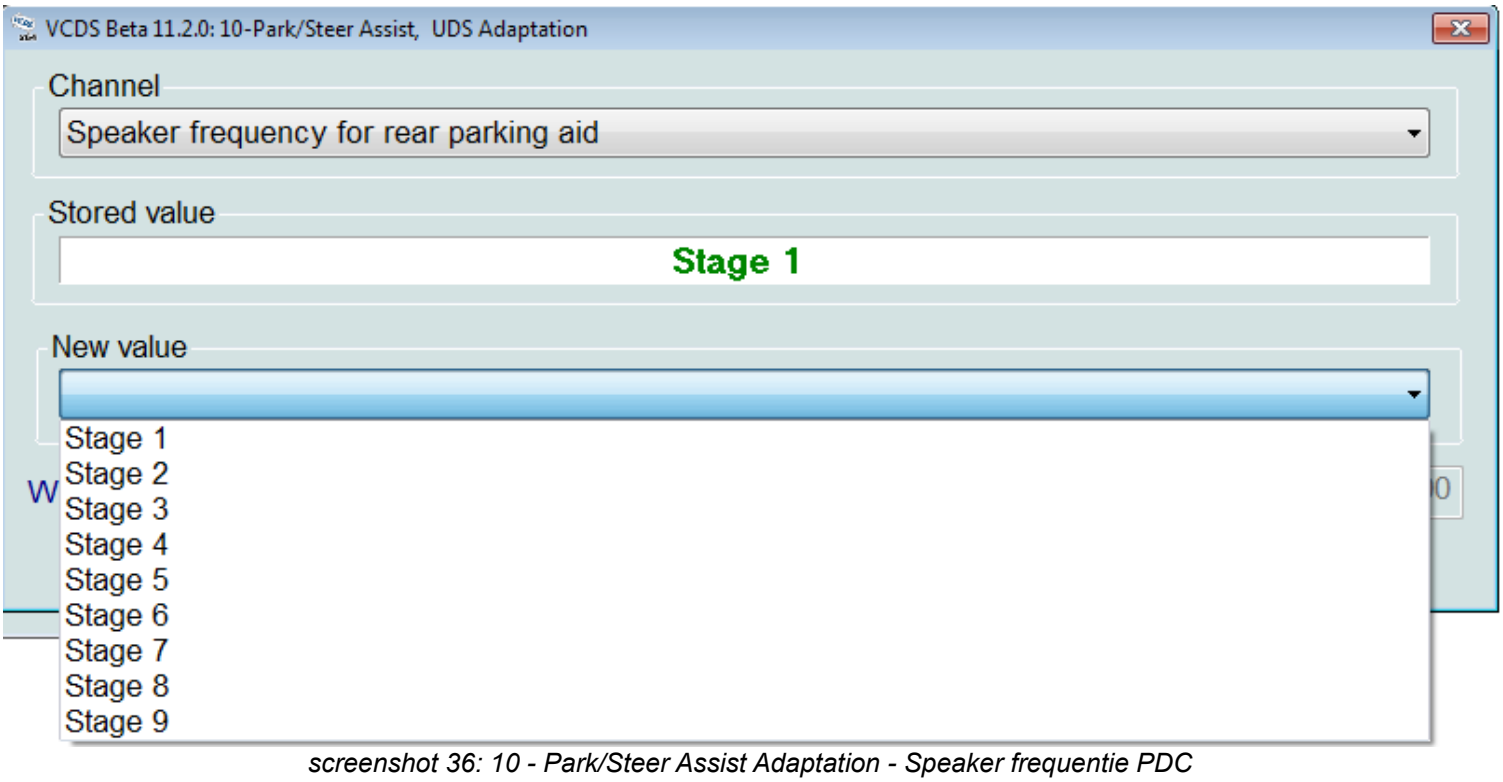
Component: PARKHILFE 4K H07 0008 (10 – Park/Steer assist)
Adaptation
Purpose: Controls whether you hear a beep or not when the gear is put in reverse and the PDC (Park Distance Control) is activated.



screenshot 35: 10 - Park/Steer assist Adaptation - Parking aid activation tone

7.9 PDC pitch

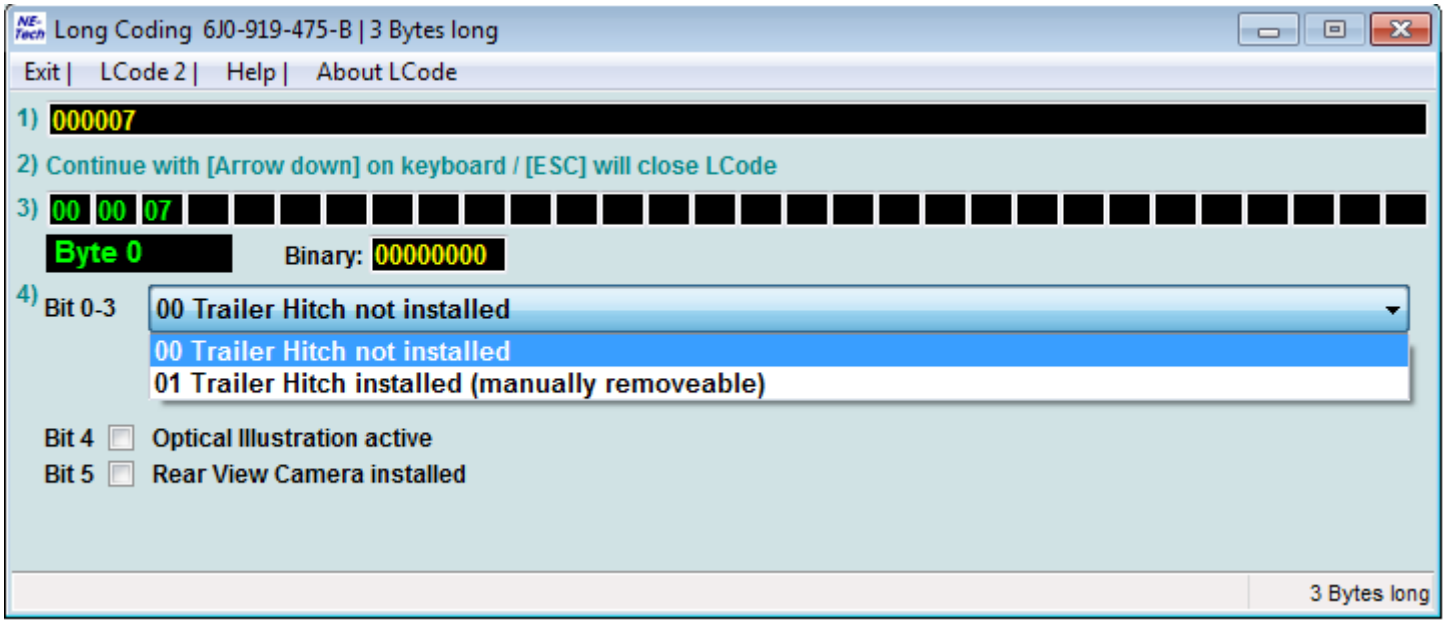
Component: PARKHILFE 4K H07 0008 (10 – Park/Steer assist)
Adaptation
Purpose: Determines the frequency used for the PDC. Stage 1 = low, Stage 9 = high. Default 4 if I'm not mistaken.



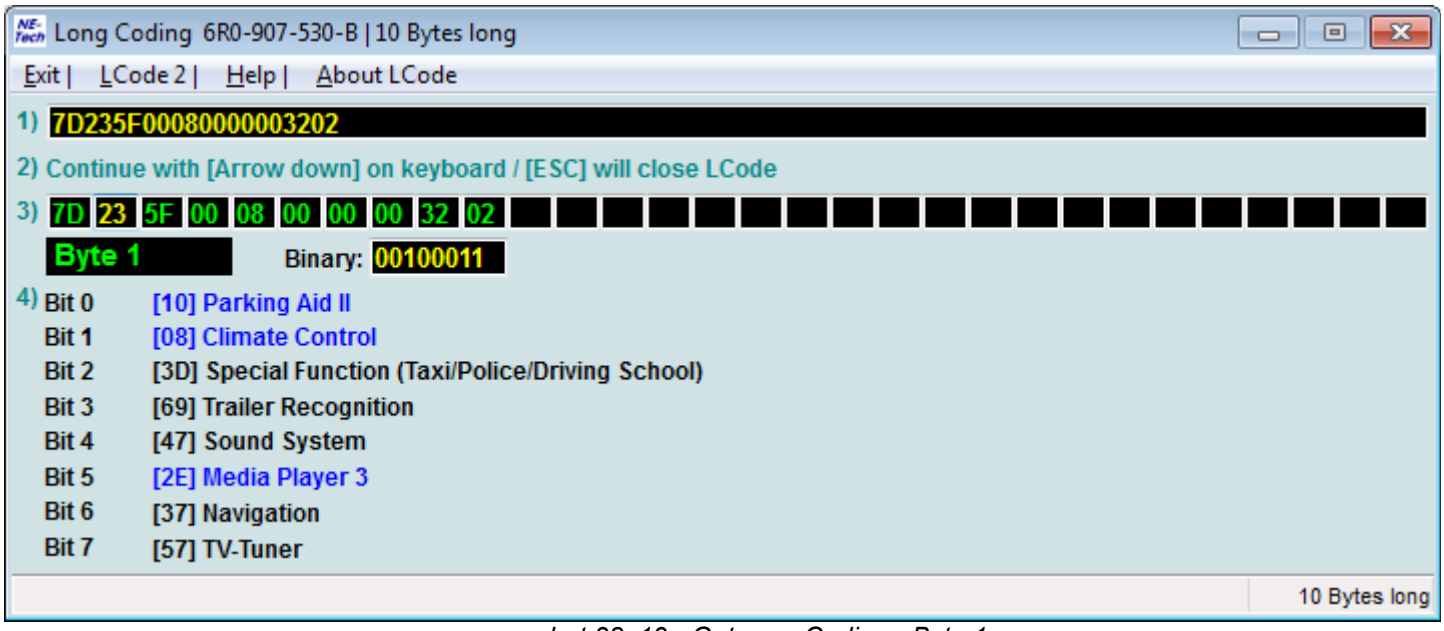
screenshot 36: 10 - Park/Steer Assist Adaptation - Speaker frequentie PDC

7.10 Towbar adjustments

Component: PARKHILFE 4K H07 0008 (10 – Park/Steer Assist)
Byte: 0
Bit: 0-3
Component: J533 Gateway H28 0020 (19 – Gateway)
Byte: 1
Bit: 3
Purpose: When you mount a CAN-enabled towbar yourself some adjustments to the PDC have to made in order for it to work properly. These have to be done in two components!
Refer to this topic @SO (Dutch).



screenshot 37: 10 - Park/Steer Assist Coding - Byte 0



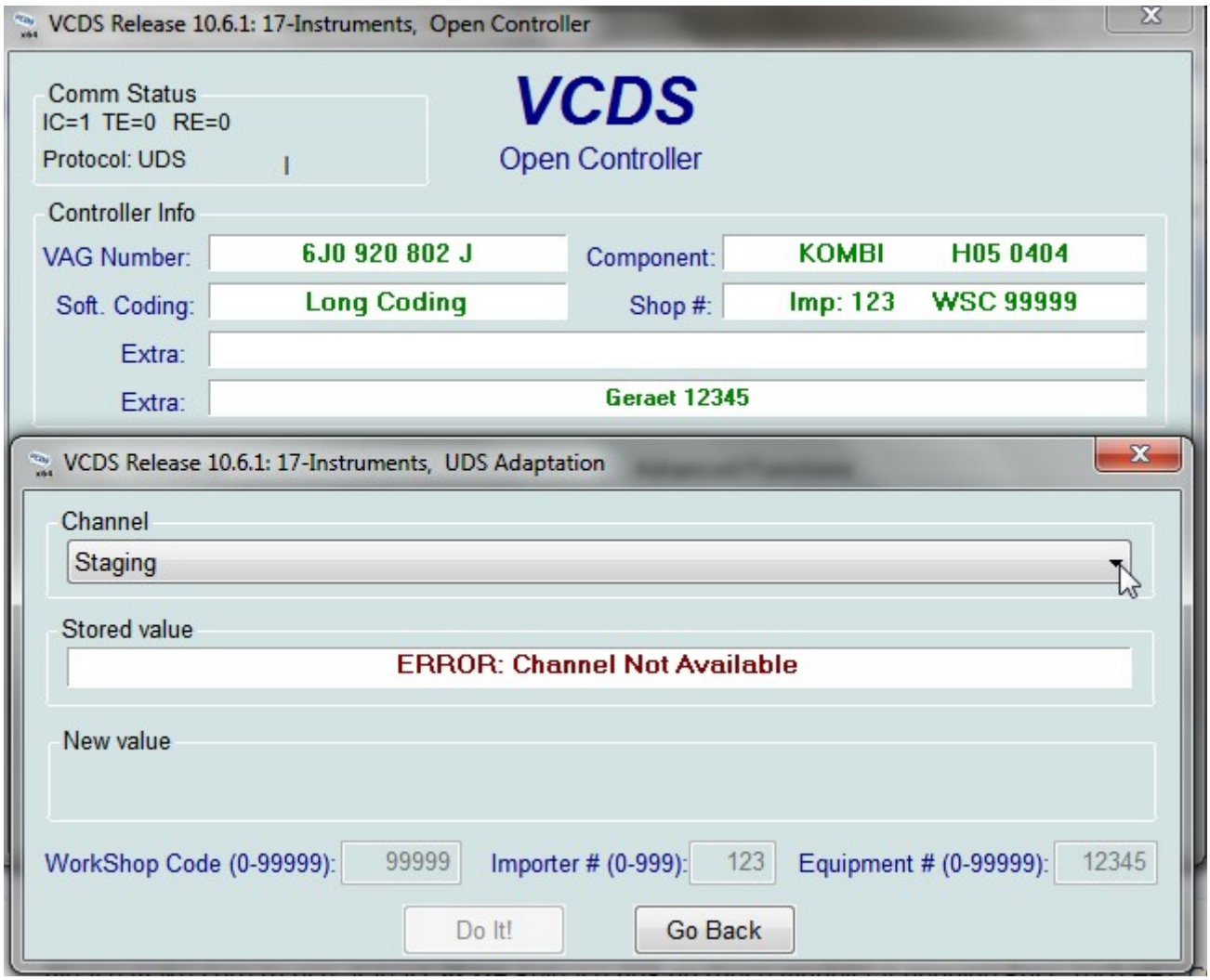
screenshot 38: 19 - Gateway Coding - Byte 1

7.11 Staging or needle sweep not available on the 6J

Component: KOMBI H05 0404 (17 – Instruments)
Adaptation
Purpose: Staging: when the ignition is switched on the indicators for the tachometer and the speedometer will

rotate to full and back. Completely useless but fun to see :) Unfortunately, staging isn't available for the Ibiza 6J. The Skoda Fabia II Greenline however, does!

Sample on YouTube for the `Fabia II Greenline`.



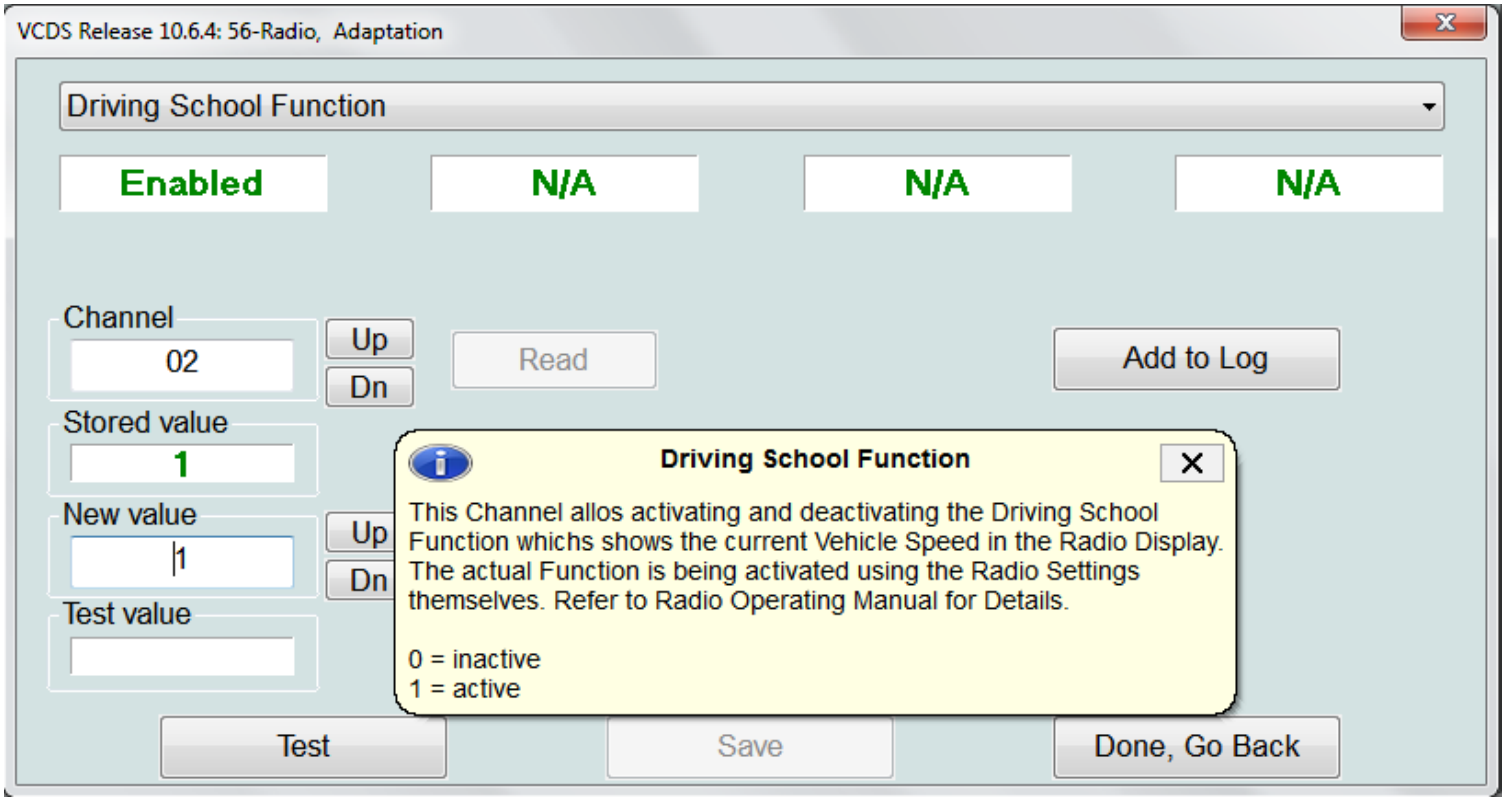
screenshot 39: 17 – Instruments adaptation - Geen staging

Instrument clusters where it does work (6J8 has `6J0 920 802 J`):
`5K6 920 870 D` (Golf)
`1P0 920 850 B` (Leon)
`5K6 920 970 H` (Golf)
`5K6 920 971 C` (Golf)
`5K6 920 871` (without revision character!) Canadian spec vehicle 2011 GTI 2DR, 6MT
`5J0 920 810 D` (Fabia II Ecomotive, thanks to adjego for the info.)
Note: some are North American cars.

Reference:
- Golf GTI MKVI forum
- VWvortex forum

7.12 Radio Driving School Function

Component: Radio H10 0107 (56 – Radio)
Adaptation
Purpose: After enabling this option you should be able to get the car speed on the radio display. I haven't found any other option that the one seen on YouTube. (Refer to 7.13 for the YT-demo).



screenshot 40: 56 – Radio adaptation - Driving School Function

7.13 Radio Development Test Mode

Component: Radio H10 0107 (56 – Radio)
Adaptation
Purpose: Shows extra information on settings in the radio. See this YouTube demo. Enable the option as per screenshot 40: 56 – Radio adaptation - Driving School Function and hold the 'Menu'-key for about 8 seconds vast. In the S-Debug menu the speed of the car is displayed. I don't know is this is what is meant by the Driving School Function.