

## MKV Vag-Com Tweaks

Note: This document assumes that the Vag-Com has been set-up and is in working order. All information contained herein is provided “as-is”. The author will not be held liable for any information contained in this document. Please verify all material for accuracy before performing any procedures. As always, it is recommended that all work on the car be done by a competent individual. It is also recommended to note the original code before making any changes. These screen shots were taken from a US-spec 2007 VW GTI with a 06/06 build date using version 607.3 of the Vag-Com. [Please see the “General Info” section for basic info.](#) Use the bookmark tab for navigation between sections.

The following tweaks can be done using the Vag-com. Click on each item to get more detailed information in this section and in all other sections.

### Instrument Module

- Re-encode instruments to UK or European
- Enable/Disable brake pad, seat belt, and washer fluid warnings
- Adjust speedometer readout

### Central Convenience Module

- Enable/Disable auto-lock
- Enable/Disable auto-unlock
- Remote Controlled Windows
- Disable opening the windows via the door lock
- Locking and unlocking confirmations

### Central Electronics Module

- Disable DRL
- Enable leaving home\*
- Enable coming home\*
- Disable the headlight washers
- Disable teardrop
- Enable the auxiliary heater
- Adjust headlight washer delay and activation
- The adjust DRL brightness
- Enable the emergency brake flash light
- Enable the “flash to pass” \*
- Use the fog lights as DRLs
- Use the fog lights with the high beams
- Enable the parking lights\*
- Adjust brightness of front fog lights

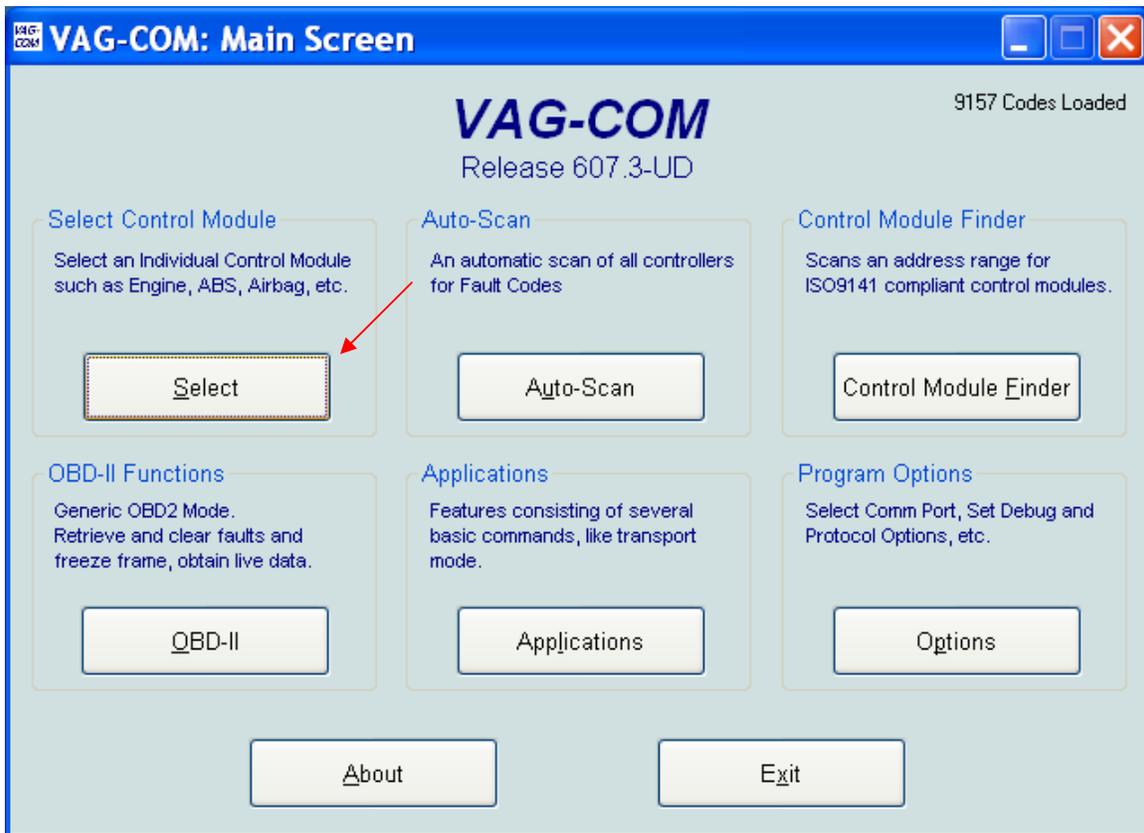
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\*May require the Instruments to be encoded to either Europe or UK. See Instruments document for more details.

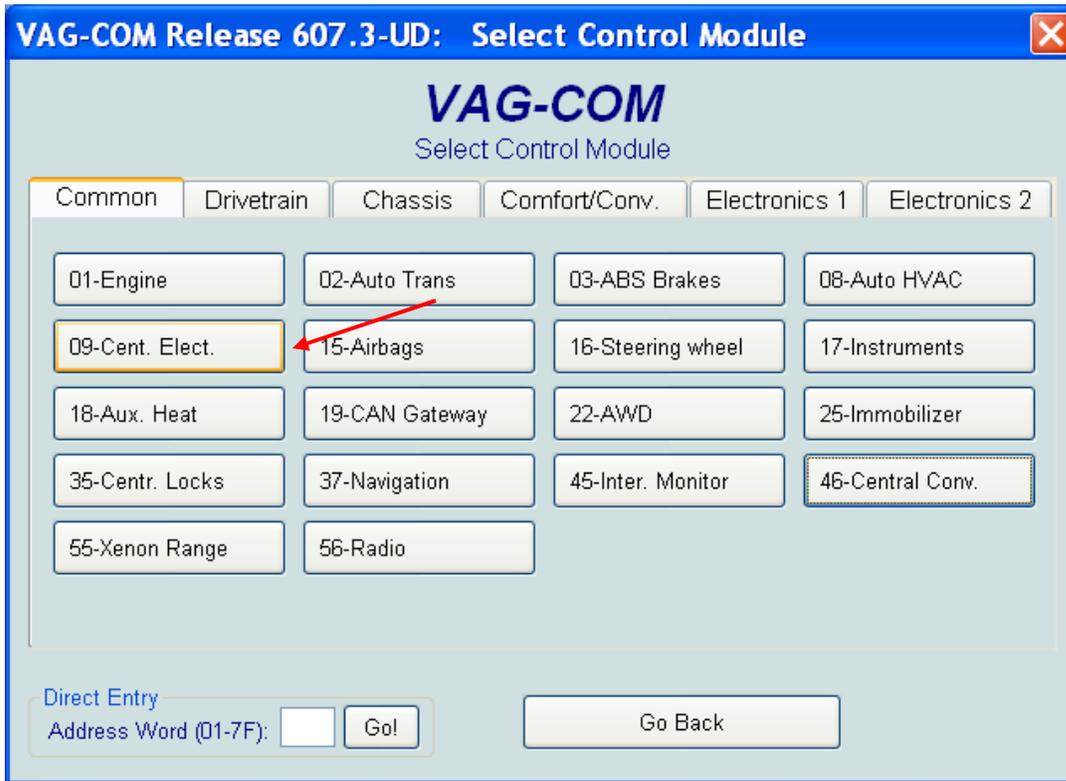
## General Info For the MKV Vag-Com

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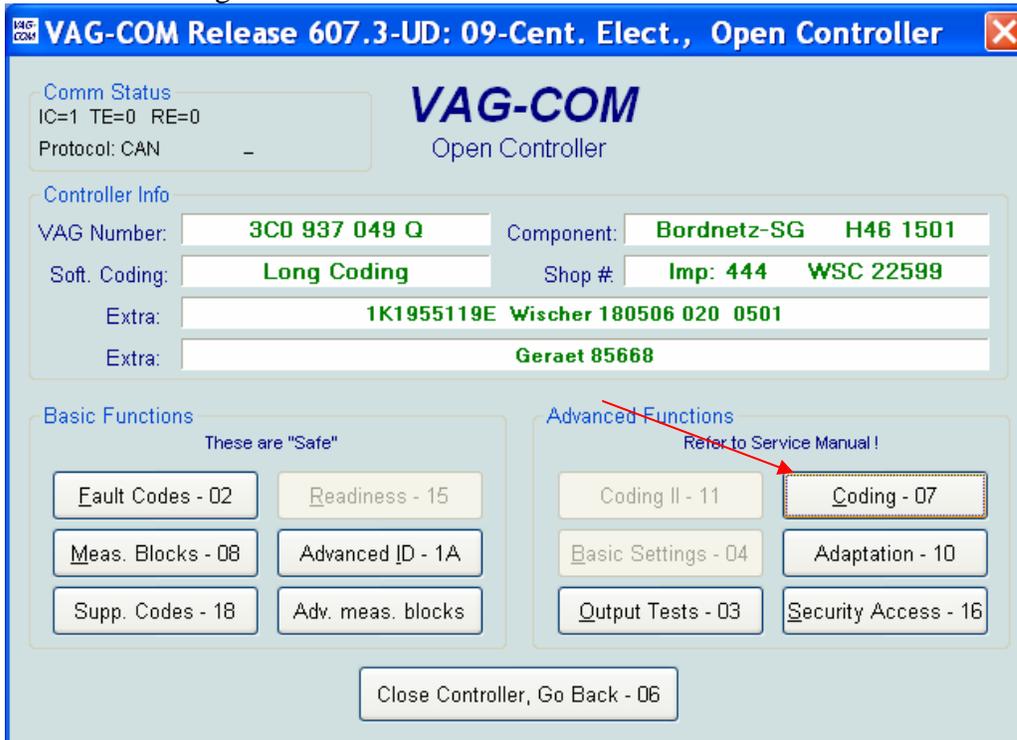
1. Start by pressing the “Select” button.



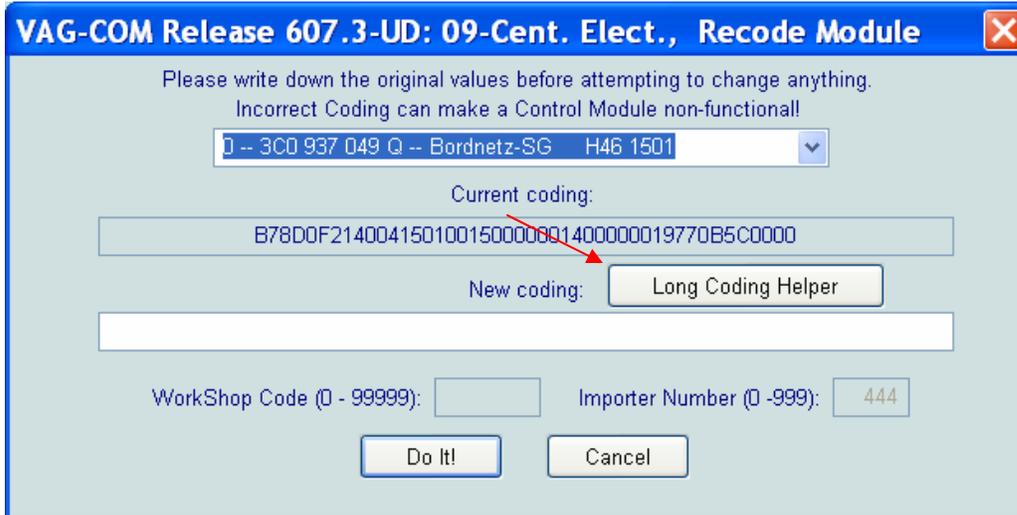
2. Select the module which you want to look at. For the purposes of this demonstration, the Central Electronics Module will be used.



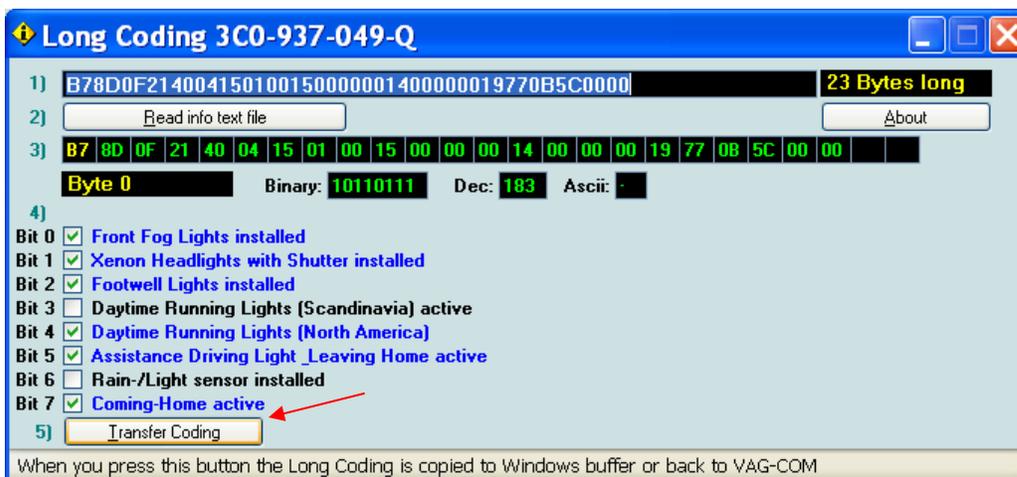
3. Select "Coding"



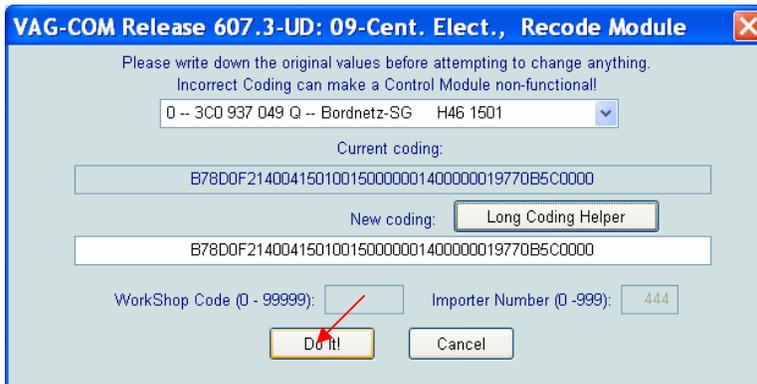
4. Select “Long Coding Helper”



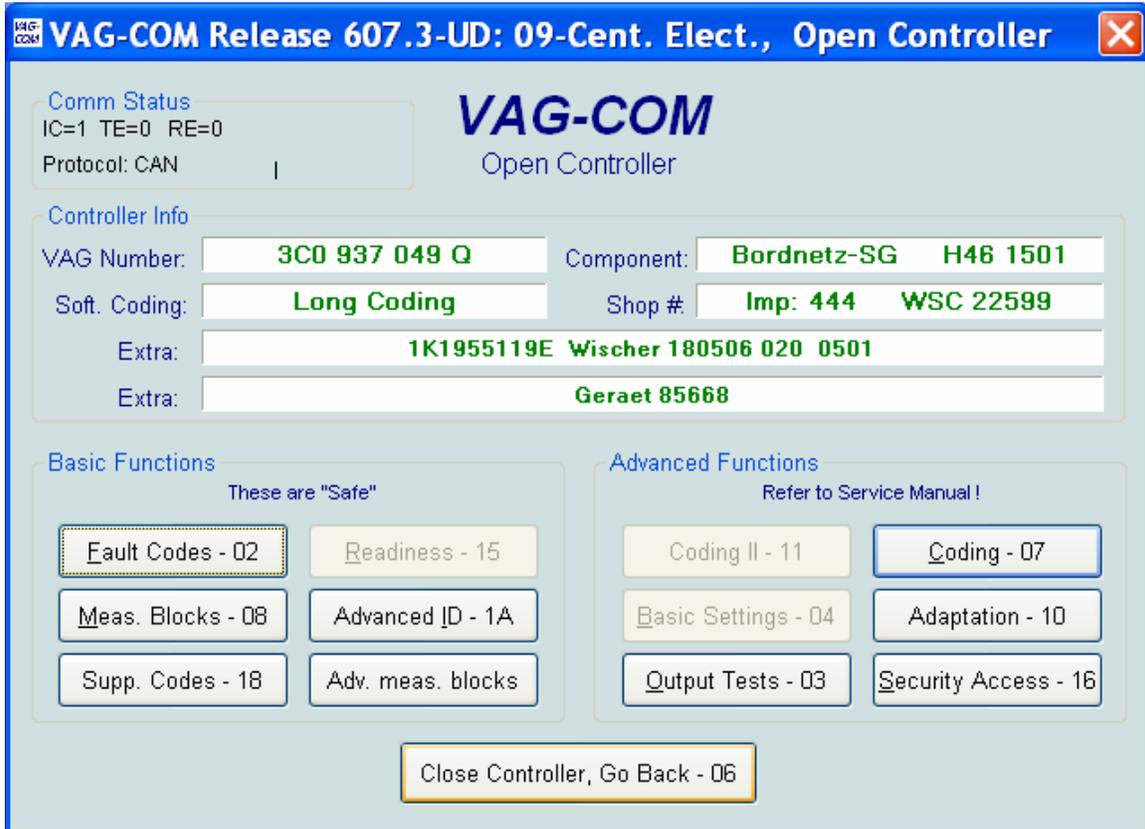
5. Select or Deselect the items which you wish to change. Then hit the “Transfer Coding” button.



6. Hit the “Do It” button



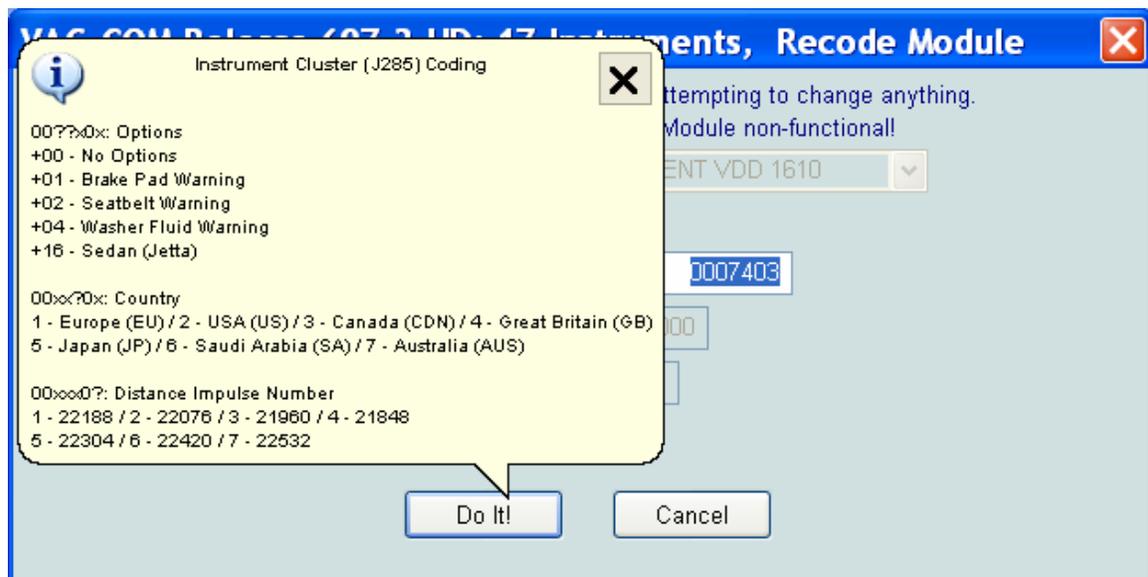
7. The Vag-Com software will drop you back into the main menu for the module you selected.



## Re-encoding the Instruments For the MKV

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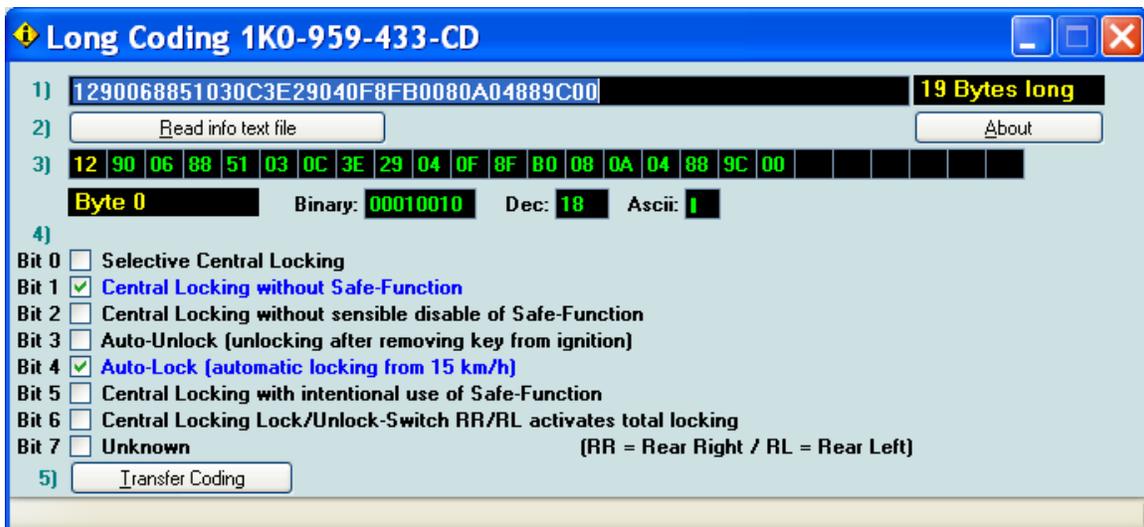
- To re-encode the instruments to change the options, follow the picture below.
- Encoding to Europe or UK will allow for certain options like parking lights, flash to pass, coming home, and leaving home. To do this, change the 5<sup>th</sup> digit to either “1” or “4”. The instruments shown below are encoded to the UK. Note that you may have to go into the MFD setup (controlled by the steering wheel buttons) to change the units to US customary units, if so desired. Changing the cluster to a different country may change the seat belt chime.
- For a 2-door, to enable the brake pad warning, but disable the seat belt and washer fluid warnings, the 3<sup>rd</sup> and 4<sup>th</sup> digits should be “01”. As shown in the picture below, the brake pad, seat belt, and washer fluid warnings are enabled.
- To change the speedometer readout, change the last digit. The VW TSB says to change it to "7", so try that or any value between 1-7, and be sure to verify with a GPS.



## Re-encoding the Central Convenience For the MKV

Note: This document assumes that the Vag-Com has been set-up and is in working order. All information contained herein is provided “as-is”. The author will not be held liable for any information contained in this document. Please verify all material for accuracy before performing any procedures. As always, it is recommended that all work on the car be done by a competent individual. It is also recommended to note the original code before making any changes. These screen shots were taken from a US-spec 2007 VW GTI with an 06/06 build date using version 607.3 of the Vag-Com. Please see the “General Info” document for basic info. Click on each item below to go to the screen shot.

- To enable auto-unlock after removing the key from the ignition, check byte 0, bit 3
- To disable auto-lock (after 15kph or approx 10mph), uncheck byte 0, bit 4
- To enable the windows to be controlled by the remote (sunroof will only close), adjust your bytes 6, 7, and 8 accordingly. Bytes 6, 7, and 8 shown below have been adjusted for remote operation of the windows
- To disable opening the windows via the door lock, uncheck byte 7, bit 0.
- Locking and unlocking confirmations via lights and/or horn can be enabled or disabled in bytes 10 and 11. As shown below, both the lights and horn will activate when the car is locked and unlocked via either the remote or the key.



**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 1** Binary: **10010000** Dec: **144** Ascii: **I**

4)

- Bit 0  Central Locking (Rear) Right Sliding door installed
- Bit 1  Central Locking (Rear) Left Sliding door installed
- Bit 2  Central Locking (Tailgate) 2-motors Central Lock installed in place of Central Lock motor
- Bit 3  Central Locking (Tailgate) inside switch via CAN
- Bit 4  Central Locking (Tailgate) Softtouch (direct open/no release)
- Bit 5  Central Locking (Tailgate) switch controlled
- Bit 6  Central Locking (Back) Central Locking actuator installed instead of Central Locking Motor
- Bit 7  Central Locking (Back) Tailgate within Central Locking

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 2** Binary: **00000110** Dec: **6** Ascii: **I**

4)

- Bit 0  Unknown
- Bit 1  Central Locking (Tailgate) "Security Lock"
- Bit 2  Central Locking (Rear) 1-Motor- instead of 2-Motors-Lock installed
- Bit 3  Central Locking (Tailgate) 1-Motor- instead of 2-Motors-Lock installed
- Bit 4  Central Locking (Back) Central Locking actuator rear window switch controlled
- Bit 5  Central Locking (Back) Central Locking actuator for rear window installed (Hatch philosophy A-MPV)
- Bit 6  Central Locking with Single door opening, driver door additional
- Bit 7  Central Locking (Back) Locking for roof compartment lid and Rear lid cover (Hatch philosophy Cabrio)

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 3** Binary: **10001000** Dec: **136** Ascii: **I**

4)

- Bit 0  Unknown
- Bit 1  Unknown
- Bit 2  Unknown
- Bit 3  Unknown
- Bit 4  Unknown
- Bit 5  Unknown
- Bit 6  Unknown
- Bit 7  Unknown

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 4** Binary: **01010001** Dec: **81** Ascii: **Q**

4) Bit 0  Unknown  
 Bit 1  Unknown  
 Bit 2  Unknown  
 Bit 3  Unknown  
 Bit 4  Unknown  
 Bit 5  Unknown  
 Bit 6  Unknown  
 Bit 7  Unknown

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 5** Binary: **00000011** Dec: **3** Ascii: **I**

4) Bit 0  Unknown  
 Bit 1  Unknown  
 Bit 2  Unknown  
 Bit 3  Unknown  
 Bit 4  Unknown  
 Bit 5  Unknown  
 Bit 6  Unknown  
 Bit 7  Unknown

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 6** Binary: **00001100** Dec: **12** Ascii: **I**

4) Bit 0  Comfort function inactive  
 Bit 1  Comfort function power windows/sunroof via door lock drivers door inactive  
 Bit 2  Comfort function power windows/sunroof via door lock passengers door inactive  
 Bit 3  Comfort function power windows/sunroof via door lock rear lid inactive  
 Bit 4  Comfort function power windows/sunroof via power window switch in drivers door inactive  
 Bit 5  Comfort function power windows/sunroof via remote control inactive  
 Bit 6  Comfort function autom. closing  
 Bit 7  Power windows/sunroof disabled after door opening

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 7** Binary: **00111110** Dec: **62** Ascii: **>**

4)

- Bit 0  Comfort opening power windows via door lock active
- Bit 1  Comfort opening power windows via power window switch active
- Bit 2  Comfort opening power windows via remote control active
- Bit 3  Comfort closing power windows via door lock active
- Bit 4  Comfort closing power windows via power window switch active
- Bit 5  Comfort closing power windows via remote control active
- Bit 6  Comfort function after authorized access only in a limited time
- Bit 7  Not relevant/Unused

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 8** Binary: **00101001** Dec: **41** Ascii: **]**

4)

- Bit 0  Comfort opening sunroof via door lock active
- Bit 1  Comfort opening sunroof via power window switch active
- Bit 2  Comfort opening sunroof via remote control active
- Bit 3  Comfort closing sunroof via door lock active
- Bit 4  Comfort closing sunroof via power window switch active
- Bit 5  Comfort closing sunroof via remote control active
- Bit 6  Comfort opening type for sunroof (not active) (0 = open / 1 = lift up)
- Bit 7  Unknown

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 9** Binary: **00000100** Dec: **4** Ascii: **I**

4)

- Bit 0  Unknown
- Bit 1  Unknown
- Bit 2  Unknown
- Bit 3  Unknown
- Bit 4  Unknown
- Bit 5  Unknown
- Bit 6  Unknown
- Bit 7  Unknown

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 10** Binary: **00001111** Dec: **15** Ascii: **I**

4)

- Bit 0  **Unlocking Confirmation (Blink) via Door Locks**
- Bit 1  **Unlocking Confirmation (Horn) via Door Locks**
- Bit 2  **Unlocking Confirmation (Blink) via Remote Control**
- Bit 3  **Unlocking Confirmation (Horn) via Remote Control**
- Bit 4  **Not relevant/Unused**
- Bit 5  **Not relevant/Unused**
- Bit 6  **Not relevant/Unused**
- Bit 7  **Adaptation of Horn Confirmation locked**

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 11** Binary: **10001111** Dec: **143** Ascii: **I**

4)

- Bit 0  **Locking Confirmation (Blink) via Door Locks**
- Bit 1  **Locking Confirmation (Horn) via Door Locks**
- Bit 2  **Locking Confirmation (Blink) via Remote Control**
- Bit 3  **Locking Confirmation (Horn) via Remote Control**
- Bit 4  **Not relevant/Unused**
- Bit 5  **Not relevant/Unused**
- Bit 6  **Unknown**
- Bit 7  **Unknown**

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 12** Binary: **10110000** Dec: **176** Ascii: **\***

4)

- Bit 0  **Unknown**
- Bit 1  **Unknown**
- Bit 2  **Unknown**
- Bit 3  **Unknown**
- Bit 4  **Unknown**
- Bit 5  **Unknown**
- Bit 6  **Unknown**
- Bit 7  **Unknown**

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 13** Binary: **00001000** Dec: **8** Ascii: **I**

4)

- Bit 0  Remote control inactive
- Bit 1  Remote control with "Terminal 15 ON" inactive
- Bit 2  Remote control range limitation active
- Bit 3  **Manual remote control learning/unlearning active**
- Bit 4  Not relevant/Unused
- Bit 5  Not relevant/Unused
- Bit 6  Activation Blink Signal (Anti-Theft-Warning System)
- Bit 7  Activation Horn Signal (Anti-Theft-Warning System)

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 14** Binary: **00001010** Dec: **10** Ascii: **I**

4)

- Bit 0  Doors (0 = 2-doors / 1 = 4-doors)
- Bit 1  **Power windows front installed**
- Bit 2  Power windows rear installed
- Bit 3  **Central locking installed**
- Bit 4  Model (0 = Left Hand Drive/ 1 = Right Hand Drive)
- Bit 5  Not relevant/Unused
- Bit 6  Synchronised mirror adjustment
- Bit 7  Mirror lowering with reverse gear (only with Memory Seats)

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 15** Binary: **00000100** Dec: **4** Ascii: **I**

4)

- Bit 0  Anti-theft system deactivated
- Bit 1  Anti-theft system disarming only via remote control or immobilizer
- Bit 2  **Anti-theft system armed with intentional disable of Safe-Function/Interior Monitoring inactive**
- Bit 3  Anti-theft alarm delay (15 s) inactive (Thatcham)
- Bit 4  Not relevant/Unused
- Bit 5  Anti-theft system passive arming
- Bit 6  Inclination Sensor installed
- Bit 7  Interior Monitoring installed

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 16** Binary: **10001000** Dec: **136** Ascii: **I**

4)

Bit 0  Not relevant/Unused

Bit 1  Not relevant/Unused

Bit 2  Not relevant/Unused

Bit 3  Not relevant/Unused

Bit 4  Alarm Siren installed

Bit 5  Siren Tone Type (0 = frequency modulated / 1 = intermittent)

Bit 6  Siren Alarm Type (0 = 10 "tamper" alarms / 1 = 1 "tamper" alarm)

Bit 7  Adaption channel for Siren options locked

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 17** Binary: **10011100** Dec: **156** Ascii: **I**

4)

Bit 0  Unknown

Bit 1  Unknown

Bit 2  Unknown

Bit 3  Unknown

Bit 4  Unknown

Bit 5  Unknown

Bit 6  Unknown

Bit 7  Unknown

5)

**Long Coding 1K0-959-433-CD**

1) **1290068851030C3E29040F8FB0080A04889C00** **19 Bytes long**

2)

3) **12 90 06 88 51 03 0C 3E 29 04 0F 8F B0 08 0A 04 88 9C 00**

**Byte 18** Binary: **00000000** Dec: **0** Ascii:

4)

Bit 0  Unknown

Bit 1  Unknown

Bit 2  Unknown

Bit 3  Unknown

Bit 4  Unknown

Bit 5  Unknown

Bit 6  Unknown

Bit 7  Unknown

5)

## Re-encoding the Central Electronics For the MKV

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- To disable DRL, uncheck byte 0, bit 4.
- To enable leaving home, check byte 0, bit 5. This will turn on the headlight and the interior lights when you unlock the car using the remote.\*
- To enable coming home, check byte 0, bit 7. This will turn off all lights after a set period of time (approx 1-2 minutes). \*
- To disable the headlight washers, uncheck byte 1, bit 1.
- To disable teardrop, uncheck byte 3, bit 5. This is the delayed last wipe when you use the windshield washer.
- To enable the auxiliary heater, check byte 4, bit 0. Your car may or may not have this. Check the module for a DTC if you decide to enable this.
- The headlight washer delay and activation can be adjusted via bytes 5 and 6.
- The DRL’s can be dimmed (brightness adjustment) via byte 8.
- To enable the emergency brake flash light, check byte 17, bit 0. I believe this is when your abs comes on when braking, but have not confirmed it.
- To enable the “flash to pass”, uncheck byte 17, bit 1. When you activate the high beam with the flash to pass enabled, the shutter on the xenons will open, and the halogen bulb will also turn on.\*
- To use the fog lights as DRLs, check byte 17, bit 4. Note that the DRL (NA (byte 0, bit 4) must be checked in order for this to work.
- To use the fog lights with the high beams, uncheck byte 17, bit 5.
- To enable the parking lights, uncheck byte 17, bit 6.\*
- The front fog lights can be dimmed (brightness adjustment) via byte 20

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\*May require the Instruments to be encoded to either Europe or UK. See Instruments document for more details.

**Long Coding 3C0-937-049-Q** \_ □ ×

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 0** Binary: **10110111** Dec: **183** Ascii: **-**

4)

- Bit 0  **Front Fog Lights installed**
- Bit 1  **Xenon Headlights with Shutter installed**
- Bit 2  **Footwell Lights installed**
- Bit 3  **Daytime Running Lights (Scandinavia) active**
- Bit 4  **Daytime Running Lights (North America)**
- Bit 5  **Assistance Driving Light \_Leaving Home active**
- Bit 6  **Rain-/Light sensor installed**
- Bit 7  **Coming-Home active**

5)

**Long Coding 3C0-937-049-Q** \_ □ ×

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 1** Binary: **10001101** Dec: **141** Ascii: **!**

4)

- Bit 0  **Rear Seat Recognition installed**
- Bit 1  **Headlight Washer installed**
- Bit 2  **Electronic Fuelpump Relay installed (Gasonline only)**
- Bit 3  **Rear Wiper installed**
- Bit 4  **Heated Side Mirrors installed**
- Bit 5  **Rear Lid Remote Opening**
- Bit 6  **Rear Lid Remote Opening - Release**
- Bit 7  **Rear Wiper with Front Wiper continously active**

5)

Click on Hex value. Hex value can also be changed direct (value 00-FF)

**Long Coding 3C0-937-049-Q** \_ □ ×

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 2** Binary: **00001111** Dec: **15** Ascii: **!**

4)

- Bit 0  **Rear Wiper with Front Wiper intermittent active**
- Bit 1  **Comfort Turn Signals**
- Bit 2  **Cold Lamp Diagnosis active**
- Bit 3  **Load Management active**
- Bit 4  **Coming-Home Mode via (0 = Personalisation / 1 = Potentiometer)**
- Bit 5  **Rear Lid Remote Openening (0 = Impuls activated / 1 = Contact activated)**
- Bit 6  **Side Turn Signal Lights installed**
- Bit 7  **Seat Heating installed**

5)

Click on Hex value. Hex value can also be changed direct (value 00-FF)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 3** Binary: **00100001** Dec: **33** Ascii: **!**

4)

- Bit 0  **Relay Terminal 15 installed**
- Bit 1  **Rear Fog Lights (0 = 2 Rear Fog Lights / 1 = 1 Rear Fog Light)**
- Bit 2  **Reverse Driving Lights (0 = 2 Reverse Driving Lights / 1 = 1 Reverse Driving Light)**
- Bit 3  **Reverse Driving Light off when Rear Lid open**
- Bit 4  **Xenon-Shutter without Shutter installed (Bi-Xenon)**
- Bit 5  **Teardrop Wiping active**
- Bit 6  **2nd Battery installed**
- Bit 7  **Rear Lights (1 = Back Light/Brake Light dimmed / 0 = Back Light dimmed)**

5)

Click on Hex value. Hex value can also be changed direct (value 00-FF)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 4** Binary: **01000000** Dec: **64** Ascii: **@**

4)

- Bit 0  **Auxiliary Heater installed**
- Bit 1  **Auxiliary Heating installed**
- Bit 2  **Trailer/Towing Device installed**
- Bit 3  **Memory Seats installed**
- Bit 4  **Activation of both Rear Fog Lights**
- Bit 5  **Model (0 = Right Hand Drive / 1 = Left Hand Drive)**
- Bit 6  **Rear Fog Lights deactivated**
- Bit 7  **Climatronic installed**

5)

Click on Hex value. Hex value can also be changed direct (value 00-FF)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 5** Binary: **00000100** Dec: **4** Ascii: **I**

4)

- Bit 0  **Headlight Washer Delay (Resolution: 50ms)**
- Bit 1  **- Decimal Value (Example: 20 is 20 x 50 = 1000 ms)**
- Bit 2
- Bit 3
- Bit 4
- Bit 5
- Bit 6
- Bit 7

5)

Click on Hex value. Hex value can also be changed direct (value 00-FF)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 6** Binary: **00010101** Dec: **21** Ascii: **I**

4)

Bit 0  **Headlight Washer Activation Time (Resolution: 50ms)**

Bit 1  - Decimal Value (Example: 16 is 16 x 50 = 800 ms)

Bit 2

Bit 3

Bit 4

Bit 5

Bit 6

Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 7** Binary: **00000001** Dec: **1** Ascii: **I**

4)

Bit 0  **Turn Signal Front left/right as Parking Light Front left/right (USA and Canada)**

Bit 1  - Decimal Value (Resolution: 1%)

Bit 2

Bit 3

Bit 4

Bit 5

Bit 6

Bit 7

5)

Click on Hex value. Hex value can also be changed direct (value 00-FF)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 8** Binary: **00000000** Dec: **0** Ascii: **I**

4)

Bit 0  **Daytime Running Light Dimming**

Bit 1  - Decimal Value (Resolution: 1%)

Bit 2

Bit 3

Bit 4

Bit 5

Bit 6

Bit 7

5)

Click on Hex value. Hex value can also be changed direct (value 00-FF)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 9** Binary: **00010101** Dec: **21** Ascii: **I**

4) Bit 0  **Rear Brake Light as Parking Light**  
 Bit 1  - Decimal Value (Resolution: 1%)  
 Bit 2   
 Bit 3   
 Bit 4   
 Bit 5   
 Bit 6   
 Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 10** Binary: **00000000** Dec: **0** Ascii:

4) Bit 0  **Rear Fog Light as Parking Light**  
 Bit 1  - Decimal Value (Resolution: 1%)  
 Bit 2   
 Bit 3   
 Bit 4   
 Bit 5   
 Bit 6   
 Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 11** Binary: **00000000** Dec: **0** Ascii:

4) Bit 0  **Front Parking Light Dimming**  
 Bit 1  - Decimal Value (Resolution: 1%)  
 Bit 2   
 Bit 3   
 Bit 4   
 Bit 5   
 Bit 6   
 Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 12** Binary: **00000000** Dec: **0** Ascii:

4)

Bit 0  Rear Parking Light Dimming

Bit 1  - Decimal Value (Resolution: 1%)

Bit 2

Bit 3

Bit 4

Bit 5

Bit 6

Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 13** Binary: **00010100** Dec: **20** Ascii: **I**

4)

Bit 0  Backup Function: Front Side Turn Signal Left/Right as Front Parking Light

Bit 1  - Decimal Value (Resolution: 1%)

Bit 2

Bit 3

Bit 4

Bit 5

Bit 6

Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 14** Binary: **00000000** Dec: **0** Ascii:

4)

Bit 0  Backup Function: Front Parking Light Left/Right as Side Turn Signals

Bit 1  - Decimal Value (Resolution: 1%)

Bit 2

Bit 3

Bit 4

Bit 5

Bit 6

Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 15** Binary: **00000000** Dec: **0** Ascii:

4)

Bit 0  Backup Function: Rear Light Left/Right as Side Turn Signals

Bit 1  - Decimal Value (Resolution: 1%)

Bit 2

Bit 3

Bit 4

Bit 5

Bit 6

Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 16** Binary: **00000000** Dec: **0** Ascii:

4)

Bit 0  Backup Function: Front Fog Lights Left/Right as Low Beam Headlight

Bit 1  - Decimal Value (Resolution: 1%)

Bit 2

Bit 3

Bit 4

Bit 5

Bit 6

Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 17** Binary: **00011001** Dec: **25** Ascii: **I**

4)

Bit 0  **Emergency Brake Flash Light active**

Bit 1  Deactivation of Additional High Beam with Bi-Xenon

Bit 2  Heated Front Window installed

Bit 3  **Diagnosis Terminal 50 active**

Bit 4  **Daytime Running Light with dimmed Low Beam**

Bit 5  Front Fog Lights deactivated with High Beam

Bit 6  Parking Light Function inactive (USA/Canada)

Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 18** Binary: **01110111** Dec: **119** Ascii: **w**

4)

- Bit 0  Cold Diagnosis License Plate Lights active
- Bit 1  Cold Diagnosis Brake Lights active
- Bit 2  Cold Diagnosis Front Fog Lights active
- Bit 3  Cold Diagnosis Rear Fog Lights active
- Bit 4  Cold Diagnosis High Beam active
- Bit 5  Cold Diagnosis Turn Signals active
- Bit 6  Cold Diagnosis Back Light active
- Bit 7  Cold Diagnosis Side Turn Signals active

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 19** Binary: **00001011** Dec: **11** Ascii: **l**

4)

- Bit 0  Cold Diagnosis Low Beam active
- Bit 1  Cold Diagnosis Front Parking Lights active
- Bit 2  Cold Diagnosis Rear Parking Lights active
- Bit 3  Diagnosis Rear Parking Lights active
- Bit 4
- Bit 5
- Bit 6
- Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 20** Binary: **01011100** Dec: **92** Ascii: **\**

4)

- Bit 0  Front Fog Light Dimming
- Bit 1  - Decimal Value (Resolution: 1%)
- Bit 2
- Bit 3
- Bit 4
- Bit 5
- Bit 6
- Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 21** Binary: **00000000** Dec: **0** Ascii:

4)

Bit 0  Front Light Variant

Bit 1  Front Light Variant

Bit 2  Front Light Variant

Bit 3  Reserved (Front light variant)

Bit 4  Rear Fog Light as Brake Light

Bit 5

Bit 6

Bit 7

5)

**Long Coding 3C0-937-049-Q**

1) **B78D0F214004150100150000001400000019770B5C0000** **23 Bytes long**

2)

3) **B7 8D 0F 21 40 04 15 01 00 15 00 00 00 14 00 00 00 19 77 0B 5C 00 00**

**Byte 22** Binary: **00000000** Dec: **0** Ascii:

4)

Bit 0

Bit 1

Bit 2

Bit 3

Bit 4

Bit 5

Bit 6

Bit 7

5)