

Ryder Towing Equipment Ltd

VCDS CANbus Coder User Guide

The VCDS CANbus coder is essential equipment for towbar fitters installing interactive CANbus modules on VAG vehicles (Audi, Seat, Skoda and VW).

The following pages take you, step by step, through the recoding process, with each page clearly illustrated with pictures of the screens you will see.

| Construction C | Exercise Sector Sector | |
|--|--|--|
| Constraints of the second seco | | |
| | | |
| | | |

SEE NOTES IN EACH SECTION SHOWING MODEL-SPECIFIC VARIATIONS

Plug the VCDS OBDII plug into the vehicle's diagnostic socket and open VCDS on your laptop.

The following screen will appear:



Click on Auto Scan and note all existing fault codes Then click on SELECT

The following screen will appear:

| Installed | VC Select Con | DS trol Module | ning 4 Flastrasias 2 |
|---------------------------------------|-----------------------|--------------------|----------------------|
| 01-Engine | 03-ABS Brakes | 08-Auto HVAC | 09-Cent. Elect. |
| 15-Airbags | 16-Steering wheel | 17-Instruments | 19-CAN Gateway |
| 25-Immobilizer | 42-Door Elect, Driver | 44-Steering Assist | 46-Central Conv. |
| 52-Door Elect, Pass. | 53-Parking Brake | 56-Radio | 62-Door, Rear Left |
| 72-Door, Rear Right | | | |
| Direct Entry Address Word (01-FF): | Go! | Go Back | |

Click on 19-CAN Gateway

The following screen will appear (NEXT PAGE)

| VCDS Release Comm Status IC=1 TE=0 RE= Protocol: CAN | 11.11.4: :0 / | 19-CAN Gateway, Op | en Controller (3 CDS Controller | CO-907-530-V | 1.CLB) 🛛 |
|---|--|---------------------------------------|---------------------------------------|---------------------------|---|
| Controller Info VAG Number: Soft. Coding: | 3(1 | C0 907 530 C Long Coding | Component: Shop #: | Gateway Imp: 123 | 007 0040 WSC 05311 |
| Extra: Extra: | S | | Geraet 1234 Advanced | 5 Functions | |
| Fault Codes | These at a second secon | re "Safe" Readiness - 15 | Codi | Refer to Serving II - 11 | rice Manual ! Coding - 07 |
| Meas. Block Supp. Code: | s - 08 s - 18 | Advanced ID - 1A Adv. Meas. Values | Instal Output | lation List Tests - 03 | Adaptation - 10 Security Access - 16 |
| | | Close Contr | oller, Go Back - | 06 | |

Click on CODING 07

The following screen will appear:

Write down the current coding so you can restore it if necessary



Click on LONG CODING HELPER

The following screen will appear:



In line 3, click each code (3D, FD, 0C, etc) in turn until a screen appears in which Bit 7 shows 69-TRAILER (See illustration on next page)

VCDS User Guide

The screen is below

| 🛣 Ver.1.0.5.2 - 3C0-907-530-C 7 Bytes long | |
|--|---------|
| Exit Back to standard LCode 2 Help | |
| 1) 3DFD8C04C22003 | |
| 2) Continue with [Arrow down] on keyboard / [ESC] will close LCode | |
| 3) 3D FD 8C 04 C2 20 03 | |
| Byte 2 Binary: 10001100 | |
| 4) Bit 0 [36] Seat Memory (Driver) Bit 1 [65] Tire Pressure Monitoring Bit 2 [16] Steering Wheel Electronics Bit 3 [08] Climate Control Bit 4 [76] Park Assist Bit 5 [70] Auxiliary Heating Bit 6 [26] Auto Roof | |
| Bit 7 🗹 [69] Trailer | |
| | 7 Bytes |

Tick the box in **Bit 7 [69] Trailer** (Note: If the box is already ticked, the car is already coded for towing. Also note that some boxes are already ticked.)

Close the Long Code Helper box The following screen will appear:

| VCDS Release 11.1 | 1.4: 19-CAN Gateway, Recode Module | |
|-------------------|--|--|
| Plea | ase write down the original values before atte Incorrect Coding can make a Control Mo | mpting to change anything. dule non-functional! |
| | 0 - 3C0 907 530 C - Gateway 007 0 | 040 💉 |
| | Current coding: | |
| | 3DFD0C04C22003 | |
| | New coding: | Long Coding Helper |
| 1 | 3DFD8C04C22003 | |
| WorkShop Code | (0-99999): 05311 Importer # (0-999): Do It! Car | 123 Equipt # (0-262143): 12345 |

Click DO IT

The following screen will appear, showing that your coding has been accepted.

| Comm Status IC=1 TE=0 RE Protocol: CAN | =0 | V | CDS Controller | | |
|--|----------------|-------------------|-------------------|-----------------------------|----------------------|
| Controller Info VAG Number: | 30 | CO 907 530 C | Component: | Gateway | 007 0040 |
| Soft. Coding: | L | ong Coding | Shop #: | Imp: 123 | WSC 05311 |
| Extra: | | VCD | s 🗙 | | |
| Extra: | | Co | ting accented | 45 | |
| Basic Function | IS These ar | e "Safe" | ок | I Functions Refer to Ser | vice Manual ! |
| Fault Code | s - 02 | Readiness - 15 | Coc | ling II - 11 | Coding - 07 |
| Meas. Block | ks - 08 | Advanced ID - 1A | Insta | Illation List | Adaptation - 10 |
| Supp. Code | es - 18 | Adv. Meas. Values | Outpu | t Tests - 03 | Security Access - 16 |
| | | | | | |

Close the controller.

See following pages for Parking Brake and PDC coding

Quality – Service – Innovation sales@rydertowing.co.uk

Parking Brake Coding Check THIS ONLY APPLIES TO VEHICLES WITH ELECTRONIC PARKING BRAKE

On the main menu screen click SELECT

| | VCDS Release 11 11 4 | 16302 Codes Load |
|--|---|---|
| Select Control Module | Auto-Scan | Service Reminder Interval Res |
| Select an Individual Control Module such as Engine, ABS, Airbag, etc. | An automatic scan of all controllers for Fault Codes. | Automatically reset the service ligh for oil and inspection. |
| Select | Auto-Scan | SRI Reset |
| OBD-II Functions | Applications | Program Options |
| Generic OBD2 Mode. Retrieve and clear faults and freeze frame, obtain live data. | Features consisting of several basic commands, like transport mode. | Select Comm Port, Set Debug and Protocol Options, etc. |
| OBD-II | Applications | Options |
| | | |

The following screen will appear. Select **INSTALLED**

| Installed Drivetr | ain Chassis Cor | mfort/Conv. Electro | nics 1 Electroni |
|----------------------|-----------------------|---------------------|------------------|
| 01-Engine | 03-ABS Brakes | 08-Auto HVAC | 09-Cent. Elect. |
| 15-Airbags | 16-Steering wheel | 17-Instruments | 19-CAN Gateway |
| 25-Immobilizer | 42-Door Elect, Driver | 44-Steering Assist | 46-Central Conv. |
| 52-Door Elect, Pass. | 53-Parking Brake | 56-Radio | 62-Door, Rear Le |
| 72-Door, Rear Right | | | |

Click 53-PARKING BRAKE

The following screen will appear

VCDS User Guide

| Comm Status IC=1 TE=0 RE= Protocol: CAN | 1.11.4: 53-Рагкі 0 / | Open C | Controller | (EPB Generatio | n 27 300-907-80 | |
|---|----------------------------|-----------------|---------------|-----------------------------|---------------------|---|
| Controller Info VAG Number: | 3C0 907 | 301 E | Component: | EPB VC8H | C003 013 0003 | |
| Soft. Coding: Extra: | 00000 | | Shop #: | imp: 000 | WSC 00311 | |
| Basic Functions | These are "Safe" | | Advanced | I Functions Refer to Ser | vice Manual! | |
| Fault Codes | - 02 Read | ness - 15 | Cod | ling II - 11 | Coding - 07 | |
| Meas. Blocks | s - 08 Advan | ced ID - 1A | Basic | Settings - 04 | Adaptation - 10 | |
| Supp. Codes | - 18 Adv. M | eas. Values | Outpu | t Tests - 03 | Security Access - 1 | 6 |
| | | Close Controlle | er, Go Back - | 06 | | |

Click on CODING – 07

The following screen will appear

| Controller In | fo | openo | | | |
|-----------------------|----------------------------|--------------------|-------------------|------------------|---------|
| VAG Numbe | er: 3C0 907 a | 801 E C | omponent: EPE | 3 VC8HC003 | 013 000 |
| VCDS Release | e 11.11.4: 53-Parkin | g Brake, Recode | Module | | |
| <u>18</u> | Please write down th | ne original values | before attempting | o change anythir | ng. |
| | Incorrect Co | ding can make a l | Control Module no | n-functional! | |
| | 0 - 3C0 907 8 | 01 E - EPB VC8 | HC003 013 0003 | × 1 | |
| | | | | | |
| | | | | | |
| | Software Cod | ing (0 - 8388607): | 000001 | | |
| (i) Parkin | ng Brake (J540) Coding | | 05311 | | |
| 4 | | | 000 | | |
| 00010 = Parking Brake | without Auto-Hold (North A | America) | 000 | | |
| | Without Auto-hold (Rest o | (Wohd / FR-OIT) | 00000 | | |
| 00012 = Parking Brake | with Auto-Hold (Rest of W | orld / PR-UH2) | 00000 | | |

Check that the Software coding (A) matches what is indicated in the white box (B)

e.g. Parking Brake without Auto-Hold (Rest of World)

or Parking Brake with Auto-Hold (Rest of World)

PDC coding is on the pages following

(Note: Golf, Golf Plus, Jetta, Touran : See additional information at the end of this document)

| | VCDS | 16302 Codes Loa |
|--|---|--|
| | Release 11.11.4 | |
| Select Control Module | Auto-Scan | Service Reminder Interval Re |
| Select an Individual Control Module such as Engine, ABS, Airbag, etc. | An automatic scan of all controllers for Fault Codes. | Automatically reset the service lig for oil and inspection. |
| Select | Auto-Scan | SRI Reset |
| OBD-II Functions | Applications | Program Options |
| Generic OBD2 Mode. Retrieve and clear faults and freeze frame, obtain live data. | Features consisting of several basic commands, like transport mode. | Select Comm Port, Set Debug and Protocol Options, etc. |
| OBD-II | Applications | Options |
| Aha | | Evit |
| ADO | ut j | Exit |

On the main menu screen click SELECT

Click on THE Electronics 1 tab

| Installed Drivetra | ain Chassis C | omfort/Conv. Electr | onics 1 Electroni |
|--------------------|--------------------|---------------------|-------------------|
| 05-Acc/Start Auth. | 07-Control Head | 57-TV Tuner | 29-Left Light |
| 25-Immobilizer | 17-Instruments | 67-Voice Control | 39-Right Light |
| 75-Telematics | 27-Ctrl Head, Rear | 77-Telephone | 49-Automatic Lig |
| 56-Radio | 37-Navigation | 09-Cent. Elect. | 59-Tow protection |
| 76-Park Assist | 47-Sound System | 19-CAN Gateway | 69-Trailer |

Select 76-Park Assist

VCDS User Guide

If the car has Park Assist installed the screen on the next page will appear:

(If it is not installed, the vehicle will give a fail message)

| Controller Info | | | | | | | |
|-----------------|---|-------------------|---------------|----------------------|--|--|--|
| /AG Number: | 4F0 910 795 | Component: | TSG HR | H11 0030 | | | |
| Soft. Coding: | 0003074 | Shop #: | Imp: 785 | WSC 02327 | | | |
| Extra: | | | | | | | |
| Extra: | Geraet 00200 | | | | | | |
| | These are "Safe" | _ | Refer to Serv | vice Manual! | | | |
| Fault Codes - | It Codes - 02 Readiness - 15 Coding II - 11 | | ing II - 11 | Coding - 07 | | | |
| Meas. Blocks | - 08 Advanced ID - 1A | Basic S | Settings - 04 | Adaptation - 10 | | | |
| Supp. Codes | 18 Adv. Meas. Value | Output Tests - 03 | | Security Access - 16 | | | |

Select CODING - 07

The following screen will appear with the current code in the Software Coding box

| 0 - 4F0 910 795 - TSG HR | H11 0030 | <u>×</u> |
|--------------------------------|----------|----------|
| Software Coding (0 - 8388607) | 0003074 | |
| WorkShop Code (0 - 99999). | 02327 | |
| Importer Number (0 - 999) | 785 | |
| Equipment Number (0 - 262143): | 00200 | |

Write down the current code. If the 5^{th} digit from the right is 0^* , add 10,000 to the code. (Touran only, add 1,000,000) (*If the car is already coded, the fifth digit from the right will already be 1.)

Type the new code into the Software Coding Box

Click **DO IT**

The following screen will appear, showing that your coding has been accepted.

| 🗢 VCDS Release | 11.11.4: 19-CAN (| iateway, Op | en Controller (| 3C0-907-530-\ | /1.CLB) |
|--|-----------------------|------------------|-------------------|---------------------------|----------------------|
| Comm Status IC=1 TE=0 RE Protocol: CAN | =0 | V Oper | CDS Controller | | |
| Controller Info VAG Number: | 3C0 907 5 | 30 C | Component: | Gateway | 007 0040 |
| Soft. Coding: | Long Coding | | Shop #: | Imp: 123 | WSC 05311 |
| Extra: | | VCD | | | |
| Extra: | | Coo | ling accepted 234 | 15 | |
| Basic Function | S These are "Safe" | | ок ced | Functions Refer to Ser | vice Manual ! |
| Fault Code | s - 02 Readi | ness - 15 | Cod | ing II - 11 | Coding - 07 |
| Meas. Block | ks - 08 Advanc | ed ID - 1A | Insta | llation List | Adaptation - 10 |
| Supp. Code | s - 18 Adv. Me | as. Values | Outpu | t Tests - 03 | Security Access - 16 |
| | (| Close Contr | oller, Go Back - | 06 | |

Close the controller. Quality - Service - Innovation sales@rydertowing.co.uk