RESUMEN ROSSTECH

Seat Exeo (3R)

http://wiki.ross-tech.com/wiki/index.php/Seat_Exeo_(3R)

INDICE

[01] - **Engine** (PARA MI MODELO 2.0 TDI 143 CR)

1 Coding

2 Coding-II

Cruise Control Activation in addition to Exhaust Gas Differential Pressure Sensor (G450) Adaptation is performed using the Coding-II function in vehicles with a CAN Protocol EDC. *UDS Protocol control modules do not support this function.*

Cruise Control Activation (Activación del control de velocidad)

A- DBW (Drive-by-Wire)

The CCS (Cruise Control System) activation in the DBW (Drive-by-Wire) throttle systems will vary depending on the Engine Control Module.

1) Control modules using **Short Coding** often use a Login code and the letter "**G**" is shown in the component field when activated.

1.8T Gasoline example:

Address 01: Engine　　　Labels: 06A-906-032-AWP.lbl
　Part No: 06A 906 032 LP
　Component: 1.8L R4/5VT　　**G**　0005
　Coding: 07500

1.9 CR TDI example:

Address 01: Engine (CBE)　　　Labels: 03L-906-022-CBE.clb
　Part No SW: 03L 997 016 N　　HW: 03L 906 022 J
　Component: R4 2,0L EDC **G**000SG 8680
　Coding: 0050072

Activating Cruise Control on a new (DBW) ECU using Login
DBW (Drive-by-Wire) Factory fresh ECU's often come with cruise control de-activated.
[Select]
[01 - Engine]
[Login - 11] or if that function is not available then use **[Coding - 11]** instead
Enter 11463 to activate cruise control
[Do It!]

Notes:
You may have to cycle the key off and back on before the CCS is activated and the letter "G" is shown in the component field.
The Throttle Body Alignment (TBA) may need to be completed before CCS operates.
If CCS needs to be de-activated use the Login of: 16167

2) Control modules using **Long Coding** are activated in the Coding. Due to different Control Modules Vehicle Equipment, the actual Coding Table is not shown here but will automatically be used by the Long Coding Helper with VCDS.

Address 01: Engine (CBF)　　　Labels: 06J-907-115-CBF.clb
　Part No SW: 1K0 907 115 AL　　HW: 1K0 907 115 AK
　Component: 2.0l R4/4V TFSI　　0030
　Revision: E3H21---　　Serial number:
　Coding: 040301081C070160

Activating Cruise Control on a new (DBW) ECU using Long Coding
[Select]
[01 - Engine]
[Coding - 07]
[Long Coding Helper]
Check the box for CCS and Exit
[Do It!]

Note:
You may have to cycle the key off and back on before the CCS is activated and the new coding takes effect.
The Throttle Body Alignment (TBA) may need to be completed before CCS operates.
Long Coded modules do Not have the letter G in the component field. If you wanted to see if CCS is enabled, use the Long Coding Helper and see if the box is checked.

B- DBC (Drive-By-Cable)

The CCS (Cruise Control System) on DBC (Drive By Cable) throttle systems may or may Not be controlled by the Engine Control Module. Refer to the factory repair manual for additional details on these older systems.

Checking Cruise Control using Measuring Blocks

Checking CCS using Measuring Blocks normally involves evaluating binary values of related switches.

Gasoline Engines

Gasoline Engines often use Measuring Block group 066 to display CCS info. Refer to the charts below using line Field 2 and 4 data.

Diesel Engines

Diesel Engines often use Measuring Block group 006 to display CCS info. Refer to the charts below using line Field 2 and 4 data.

Field 2 Data

0 0 0 0 1 0 0 0		
	0 = Brake Not Depressed	1 = Brake depressed (brake light switch)
	0 = Brake Not Depressed	1 = Brake depressed (brake pedal switch)
	0 = Clutch Not Depressed	1 = Clutch Depressed (always 0 in Auto. Trans.)
	0 = CCS Not active in ECM	1 = CCS active in ECM
	N/A	N/A
	0 = CCS Switched Off TDI only *	1 = CCS Switched On TDI only *
	0 = Accel. pedal overide	1 = CCS Operating
	0 = Normal CCS	1 = Accel. pedal overide

Field 4 Data

0 0 0 0 0 0 1 1		
	0 = CCS Switched Off	1 = CCS Switched On
	0 = Cancel/Off Activated	1 = CCS Switched On
	0 = SET/ Decel. Not Pressed	1 = SET/ Decel. Button Pressed
	0 = Resume/Accel Not Pressed	1 = Resume/Accel Button Pressed
	N/A	N/A
	N/A	N/A
	N/A	N/A
	N/A	N/A

Special Notes

When additional information is available in VCDS the binary values will appear in a balloon while connected to the vehicle. If there is a discrepancy with the details in the charts above, use the engine specific data in VCDS.
On some vehicles equipped with an Automatic Transmission it may be necessary to test drive exceeding a speed of 30 km/h (19 mph) before voltage is supplied to the CCS switch.
Some of the newer Engine Control Modules may use the UDS/ODX/ASAM protocols. Those modules do not support conventional Measuring Block Groups. Advanced Measuring Values will be used instead and you will check the boxes for CCS (or similar) to locate and view the readings.
On vehicles with additional equipment, the **[16] - Steering Wheel Electronics** module may display additional signals.
- See the Cruise Control Retrofitting and Diagnostic Procedures for the specific platform.

3 Adaptation

- ### 3.1 Driving DPF (Diesel Particle Filter Emergency Regeneration) Emergency Regeneration

Diesel Particle Filter Emergency Regeneration, Regeneration while Driving (Regeneración del filtro de partículas mientras conduces)

Prerequisites (General):
Ignition ON
Engine ON (Idle)
Coolant Temperature above 70 °C *(see MVB 002.4)*
Particle Filter Load below Specification *(see MVB 108.2/3, VCDS should give the specified values)*
- If the Particle Filter Load is above Specification the Particle Filter needs to be replaced since the car may burn down when regenerating.
- If the Particle Filter Load value in MVB 108 is blank, use alternate group 241.2/3 instead.
  Power Consumers ON *(Light, Seat Heating, Front/Rear Window Heater, Climate Control)*
  Engine Hood Closed

Conditions (Driving Cycle):
Vehicle Speed above 60 km/h (40 MPH)
Engine Speed between 2000-2500 RPM (4th or 5th Gear, Automatic Transmission in Tiptronic)
Duration approx. 10-15 Minutes
Exhaust Gas Temperature before Turbo Charger above 170 °C (MVB 099.2)
Exhaust Gas Temperature before Diesel Particle Filter above 150 °C (MVB 099.3)
Exhaust Gas Temperature after Diesel Particle Filter above 150 °C (MVB 099.4)
Drive the car based on the above Conditions until the Particle Filter Load is as low as possible (close to 0 %). In case the Regeneration fails there can either be problems with the Driving Cycle Conditions or with the Engine Hardware.
[Select]
[01 - Engine]
[Security Access - 16]
Enter the Code shown by VCDS next to **Adaptation Enabling (e.g. Regeneration while Driving)**
[Do It!]
[Adaptation - 10]
Select Channel for **Regeneration while Driving**
[Read]
Enter/Save *1* as new Value.
[Save]
[Done, Go Back]
[Meas. Blocks - 08]
Select Blocks 099 and 108 at once.
[Go!]
MVB 099.2: Exhaust Gas Temperature before Turbo Charger
MVB 099.3: Exhaust Gas Temperature before Particle Filter
MVB 099.4: Exhaust Gas Temperature after Particle Filter
MVB 108.2: Particle Filter Soot Mass (calculated)
MVB 108.3: Particle Filter Soot Mass (measured)
Now Start the Driving Cycle and keep watching the Measuring Blocks (2nd Person required).
[Done, Go Back]
[Close Controller, Go Back - 06]

4 Basic Setting

- ### 4.1 Standing DPF (Diesel Particle Filter Emergency Regeneration) Emergency Regeneration

Diesel Particle Filter Emergency Regeneration, Regeneration while Standing/Idle
(Regeneración en parado)

Prerequisites (General):
Ignition ON
Engine ON (Idle)
Fuel Tank at least 1/4 full
Transmission in Neutral/Park
Parking Brake engaged
Coolant Temperature above 70 °C *(see MVB 002.4)*
Particle Filter Load below Specification *(see MVB 108.2/3 -or- 241.2/3 VCDS should give the specified values)*
- If the Particle Filter Load is above Specification the Particle Filter needs to be replaced since the car may burn down when regenerating.
Power Consumers ON *(Light, Seat Heating, Front/Rear Window Heater, Climate Control)*
Engine Hood Closed
[Select]
[01 - Engine]
[Security Access - 16]
      Enter the Code shown by VCDS next to **Adaptation Enabling (e.g. Regeneration while Standing)**
[Do It!]
[Basic Settings - 04]
      Select Block for **Regeneration while Standing**
[Go!]
      Follow the Instructions on the Screen
[Done, Go Back]
[Meas. Blocks - 08]
Select Blocks 099 and 108 at once.
[Go!]
MVB 099.2: Exhaust Gas Temperature before Turbo Charger
MVB 099.3: Exhaust Gas Temperature before Particle Filter
MVB 099.4: Exhaust Gas Temperature after Particle Filter
MVB 108.2: Particle Filter Soot Mass (calculated) *Alternate group 241.2 if 108 is blank*
MVB 108.3: Particle Filter Soot Mass (measured) *Alternate group 241.3 if 108 is blank*
Now let the Car run with Raised Idle until the Particle Filter Load is as low as possible (close to 0 %).
[Done, Go Back]
[Close Controller, Go Back - 06]

- ### 4.2 Fuel Pump

Fuel Pump Basic Settings
(Ajustes básicos de la bomba de combustible)

The CR (Common Rail) TDI engines should not be operated without fuel which may be an issue after repairs such as fuel injector and fuel filter replacement. The electric fuel pump, located in the fuel tank or externally mounted in-line, can be operated via basic settings to fill the system.
These instructions do NOT apply to the VE TDI Engines.
The PD and PPD TDI engines are not as sensitive to low fuel volume however those engine management systems typically include provisions for electric fuel pump priming.
Prerequisites:
      Ignition On, Engine Off.
      Battery voltage at least 11.5 V
      Fuel tank has a sufficient level of fuel

Fuel Pump Basic Settings

[Select]
[01 - Engine]
[Basic Settings - 04]
Set Group to "035" *if Available. Substitute using the details in the Special Notes section when needed.*
[Go!]
[ON/OFF/Next]
The electric fuel pump should run for 30 seconds
If the vehicle had a simple repair such as a fuel filter that should be a sufficient amount of time for the filter to fill up.
If the engine had extensive repairs such as injector replacement and/or fuel system flushing this process should be repeated no less than 3 times. Click [On/Off/Next] to reinitialize the process if needed.
[Done, Go Back]
Special Notes

If the vehicle uses the latest KWP-7000 (UDS/ODX) engine controller, conventional Basic Setting group numbers do not apply. Instead, choose the **Transfer Fuel Pump (FP) test** *or similar* operation from the drop down menu followed by **[Go!]** to activate the Basic Setting. The EDC should display "Running" and the electric fuel pump will run. After the result of Finished Correctly appears click **[Stop]**.

5 Special Functions

- ### 5.1 Injector Quantity Adjustment (IMA) and Injector Voltage Adjustment (ISA)
  ### (Ajuste de cantidad y voltaje de inyectores)

These values represent the behavior of an injection valve (Piezo Injector). Caused by manufacturing tolerances the injectors have a unique behavior and get divided into separate classes. In combination with the automatically determined learning values of the engine control module the pre- and post-injections are being calculated individually for each valve. The behavior of an injection valve is also mileage dependent, so a valve with e.g. 10000 km has a different behavior then one with 70000 km. The control module determines these automatically while driving so the learning values change against the mileage. When altering one of the following values the learning values are being reset because the ECU thinks you are adjusting a new valve.

The IMA-ISA values need to be adapted when:

One or more injection valves have been replaced. Make sure not to adjust the valves which have not been changed!
The engine control module has been replaced.
Do NOT adapt these values when you did not replace one of the above parts, also not for training or demonstration purposes.

The adjustment code can be found on the injector itself, it is a 7-digit value and does only use the following chars:
1,2,3,4,5,6,7,8,A,B,C,D,E,F,G,H,K,L,M,N,O,P,R,S,T,U,V,W,X,Y,Z. *A value of* AAAAAAA *is also not valid.*

Prerequisites:

Ignition ON
Engine OFF

[Select]
[01 - Engine]
[Adaptation - 10]
Channel 071: IMA-ISA Value for Cylinder 1
Channel 072: IMA-ISA Value for Cylinder 2
Channel 073: IMA-ISA Value for Cylinder 3
Channel 074: IMA-ISA Value for Cylinder 4
[Test]
[Save]
[Done, Go Back]

Switch Ignition OFF, wait 10 seconds and switch Ignition ON again. The values should be saved now, please verify them by double checking the adaptation values.
The Test value shows "AAAAAAA" if you have entered an implausible value. If the IMA-ISA value on the new injector is difficult to read, consider scanning the QR code with a smart phone app.

We have had success with BB, Android and iOS platform mobile devices running i-nigma's free app.

- ### 5.2 Exhaust Gas Differential Pressure Sensor (G450) Adaptation
  ### (Adaptación del sensor de presión diferencial de los gases de escape)

  - #### 5.2.1 CAN Protocol (G450) procedure
    #### (Procedimiento CAN)

Instructions should be populated in a pop-up balloon when connected to the controller in question with VCDS.
Key ON, Engine OFF
[Coding-2] *or [Login-II]* button
Enter the code shown in the VCDS pop-up balloon
[Do It!]
Switch Ignition OFF for 30 seconds
After the key is cycled back on the adaptation should be completed. If it is not completed, proceed with the next steps:
These steps must be repeated 5 times.

Ignition ON
Wait 5 seconds
Ignition OFF
Wait 40 seconds
Repeat 4 more times

Note: If a code is NOT shown in the VCDS pop-up balloon registered customers can Join our Forum -or- send the complete Auto-Scan via email with the recent repair history including the part number of the original/removed sensor and the new replacement sensor.

  - #### 5.2.2 UDS Protocol (G450) procedure
    #### (Procedimiento UDS)

Key ON, Engine OFF
[Basic Settings]
Select **Adaptation of diff. pressure sensor particulate filter**
[Go!] to activate the Basic Setting.
After the result of **Finished Correctly** appears click **[Stop]**
Select **Resetting of learned values of difference pressure sensor**
[Go!] to activate the Basic Setting.
After the result of **Finished Correctly** appears click **[Stop]**
[Done, Go Back]

[02] - Transmission (TRANSMISIÓN)

Transmission Overview (VISTA GENERAL)

Name/Type	Transmission Type	Supplier Name/Type	Manufacturer Name/Type	Torque*
01J	Continuously Variable Transmission (CVT)	-	VL300-F	max. 310 Nm
01L	5-Speed Automatic Transmission (AT)	ZF 5HP24	-	-
01M	4-Speed Automatic Transmission (AT)	VW	-	-
01V	5-Speed Automatic Transmission (AT)	ZF 5HP19	-	-
02E	6-Speed Direct-Shift Gearbox (DSG)	-	DQ250-6F/6Q	max. 350 Nm
09A	5-Speed Automatic Transmission (AT)	Jatco	-	max. 350 Nm
09B	5-Speed Automatic Transmission (AT)	Jatco	-	max. 350 Nm
09D	6-Speed Automatic Transmission (AT)	AISIN TR-60SN	AL750-6Q	max. 1000 Nm
09E	6-Speed Automatic Transmission (AT)	ZF 6HP26A61	AL600-6Q	max. 700 Nm
09G	6-Speed Automatic Transmission (AT)	AISIN TF-60SN	AQ250-6F	max. 350 Nm
09K	6-Speed Automatic Transmission (AT)	AISIN	AQ250-6F	max. 400 Nm
09L	6-Speed Automatic Transmission (AT)	ZF 6HP19A	AL420-6Q	max. 500 Nm
0AM	7-Speed Direct-Shift Gearbox (DSG)	-	DQ200-7F	max. 250 Nm
0AN	Continuously Variable Transmission (CVT)	-	VL380-F	max. 380 Nm
0AT	6-Speed Automatic Transmission (AT)	ZF 6HP19X	AL420-6A	max. 360 Nm
0B5	7-Speed Direct-Shift Gearbox (DSG)	-	DL501	-
0B6	6-Speed Automatic Transmission (AT)	ZF 6HP28AF	AL651-6Q	max. 700 Nm
0BH	7-Speed Direct-Shift Gearbox (DSG)	-	DQ500	-
0BK	8-Speed Automatic Transmission (AT)	ZF 8HP55AF	AL551-8Q	max. 700 Nm
0BL	8-Speed Automatic Transmission (AT)	ZF 8HP90AF	AL951-8Q	max. 1000 Nm
0BQ	6-Speed Automatic Transmission (AT)	ZF 6HP32X	AL950-6A	max. 1000 Nm
0BT	7-Speed Direct-Shift Gearbox (DSG)	-	DQ500	max. 600Nm
0C8	8-Speed Automatic Transmission (AT)	AISIN	AL1000	max. 1000 Nm
0CF	5-Speed Manual Transmission (MT)	-	MQ100	max. 120 Nm
0CT	5-Speed Automated Manual Transmission (ASG)	-	SQ100	max. 120 Nm

* Torque Specifications may differ based on Engine and Application.

Pages in category "Transmissions"

The following 9 pages are in this category, out of 9 total.

4

4-Speed Automatic Transmission (01M)

5

5-Speed Automatic Transmission (01L / 5HP24)

5-Speed Automatic Transmission (01V / 5HP19)

5 cont.

5-Speed Automatic Transmission (09A)

5-Speed Electronic Manual Transmission (085)

6

6-Speed Automatic Transmission (01J/Multitronic)

6 cont.

6-Speed Automatic Transmission (09G)

6-Speed Direct Shift Gearbox (DSG/02E)

7

7-Speed Direct Shift Gearbox (DSG/0AM)

7-Speed Direct Shift Gearbox (DSG/0AM) (MI MODELO)

General Information about this Transmission can be found in the Wikipedia entry. Additional information can be found in the Official Factory Repair Information.

Our Current 0AM-300-04x.lbl label file needs a facelift and the 0AM is not used in the NAR market at this time, so we don't have access to a TCM in a real car. Control Module Maps from these units would be appreciated and that function is explained in detail on the following page: Control Module Maps Please submit a complete Auto Scan with the control module maps when possible.

Basic Setting (AJUSTES BÁSICOS)

Prerequisites:
No Fault Codes stored in the TCM (No tener códigos de error almacenados en la memoria)
Temperature 30°C - 60°C. The Measuring Block value for G510 is found in group 011.1 (temperatura entre 30 y 60 grados)
Selector Lever in P (Posición de la palanca en P)
Ignition ON, Engine OFF (Contacto On, Motor apagado)
Parking brake applied (Freno de mano echado)
Brake Pedal operated (hold for the whole procedure) (Pedal de freno pisado durante todo el procedimiento)
Throttle Pedal not operated (No pisar el acelerador)

NOTE: *Be sure to perform the following steps in the sequence shown, followed by the defined test drive.*
[Select]
[02 - Transmission]
[Basic Settings - 04]
Group 060
[Go!]
[ON/OFF/Next] may be necessary
The live data should display 4 | 0 | 0 in Basic Settings. This may take up to 2 -to- 5 minutes.
After the 4 | 0 | 0 results are displayed, start the engine immediately and allow it to idle. If 4 | 0 | 0 is not shown do NOT start the engine, something is wrong with the procedure or the transmission.

- It is normal for the transmission to make noise while the tolerances are adapting. Do not exit or abort the Basic Settings sequence prematurely if you hear clacking noises. This is similar to the 02E 6-Speed DSG.
  The live data should display 254 | 0 | 0 to confirm a successful Basic Settings after 3 -to- 6 minutes.
- 254 | 7 | 0 alone would Not be complete yet and 255 | 0 | 0 would indicate the basic settings was interrupted or failed.

[Done, Go Back]
Switch off Ignition, wait for a few seconds and switch it back on.
[Fault Codes - 02]
Check and clear any fault codes.
[Close Controller, Go Back - 06]
Perform the Defined Test Drive below.

Special Procedures (PROCEDIMIENTOS ESPECIALES)

Prerequisites:
Transmission fluid greater than 30* C. The Measuring Block value for G510 is found in group 011.1
Do Not use Cruise Control.
Defined Test Drive (PRUEBA DE FUNCIONAMIENTO DEFINIDA)

Suggested test drive after replacing the Mechatronics module/TCM or successful basic setting.
With the shifter in Drive accelerate at half throttle to 2nd gear.
Stop and repeat half throttle acceleration into 2nd gear.
Stop followed by shifting into reverse and backing up two times.
Stop followed by driving in each forward gear using the Tiptronic shifters for no less than 3 seconds per gear.
The next portion of the drive must be done in any group choice of the following gears to maintain the proper RPM and maintain a safe driving distance on the road:
        A = Gears 4th or 6th (4th is preferred)
        B = Gears 3rd, 5th or 7th (5th is preferred)
Using the Tiptronic shifters maintain the range of 2,000 -to- 4,500 RPM and drive in each gear group (A and B) for no less than one full minute (two minutes are preferred). Use variable accelerator pedal positions but accelerate to full throttle at one point in each gear group during this one minute process.
MVBs 180.1 -and- 200.1 should confirm clutch adaptations with values of 3 or greater. If any portion of the adaptation is not completed it should finish on its own with normal driving.

NOTE: *If the test drive cannot be performed in the recommended way or the necessary time, any remaining adaptations will be performed automatically during normal driving.*
Special Notes

Some modules do not require the use if the [ON/OFF/Next] button. If an Error is displayed after clicking the button, or the Basic Settings status does not switch to On, let the selected group and procedure finish on its own.
It is normal for the transmission to make noise while the tolerances are adapting. Do not exit or abort the Basic Settings sequence prematurely if you hear clacking noises.
If Registered Users experience difficulty with the Basic Settings procedure, please send the complete Auto-Scan in addition to the vehicle repair history to us directly via email.

[03] - Brake Electronics (ELECTRONICA FRENOS)

1 Coding (CODIFICACIÓN)

If the old Control Module is still accessible read/copy it's Coding to the new Module. In case this is not possible please contact us directly and we will assist you with the Coding Process.

Every inquiry on this topic has to include a full Auto-Scan as well as which parts have been replaced and why, also make sure the Auto-Scan includes the complete VIN of the vehicle in question.

2 Basic Setting (AJUSTES BASICOS)

- ### 2.1 Sensor for Steering Angle (G85) (SENSOR DE ÁNGULO DE DIRECCIÓN)

[Select]
[03 - ABS Brakes]
[Fault Codes - 02]
[Done, Go Back]
Start Engine (session still running).
Turn steering wheel at least 30 ° left and back straight ahead.
[Meas. Blocks - 08]
Group 005 Field 1 (Steering Angle Sensor -G85-)
Specification: 0.0 °
Tolerance (when straight): ±5.0 °
[Done, Go Back]
[Security Access - 16]
Enter 40168
[Do It!]
[Basic Settings - 04]
Group 001
[Go!]
[Done, Go Back]
[Fault Codes - 02]
All fault codes should have disappeared.
[Done, Go Back]
[Close Controller, Go Back - 06]

- ### 2.2 ESP-Sensor Unit (G419) (SENSOR ESP)

[Select]
[03 - ABS Brakes]
[Security Access - 16]
Enter 40168
[Do It!]
[Basic Settings - 04]
Group 069
[Go!]
Field 2 should show **OK** after a successful Calibration.
[Done, Go Back]
[Meas. Blocks - 08]
Group 010 Field 1/2 (Longitudinal Acceleration Sensor (G251))
Specification: ±1.25 m/s²
[Done, Go Back]

[Fault Codes - 02]
All fault codes should have disappeared.
[Done, Go Back]
       [Close Controller, Go Back - 06]

3 Replacement (REEMPLAZO)

After Replacing or Coding this Control Module these Steps have to be performed in the following Order:
       Code Brake Electronics (J104) Control Module
       Basic Setting for Steering Angle Sensor (G85)
       Basic Setting for ESP-Sensor Unit (G419) *(only MY2006+ with Multitronic (01J/0AN))*
In case you are having trouble with procedure please contact us directly and we will assist you with the Coding Process. Every inquiry on this topic has to include a full Auto-Scan as well as which parts have been replaced and why, also make sure the Auto-Scan includes the complete VIN of the vehicle in question.

[08] - **Heating/Air Conditioning** (AIRE ACONDICIONADO)

1 Coding

00?xx: *Chassis* (Chasis)
- 0 = Sedan/Avant
- 1 = Cabrio

00x?x: *Heated Windshield* (parabrisas térmico)
- 0 = Heated Windshield not installed
- 1 = Heated Windshield installed

00xx?: *Sunroof* (techo solar)
- 0 = No Sunroof OR Normal Sunroof
- 1 = Sunroof with Solar Cells

2 Adaptation

- ### 2.1 Channel 081: Vehicle Data Learning (Aprendizaje datos del vehiculo)

To start the process for vehicle data (VIN) learning, enter/save **26467** as new value.

[09] - Central Electronics (ELECTRÓNICA CENTRAL)

1 Coding

?xxxx: *Chassis* (Chasis)

- 0 = Limousine (PR-K8B)
- 1 = Avant (PR-K8D)
- 2 = Cabriolet (PR-K8K)

x?xxx: *Driving Light Switch* (Interruptor de luces de carretera)

- 0 = Rain/Light Sensor (G397) not installed (PR-8K0/8K1/9C6/8K4) (sensor de lluvia/luces no instalado)
- 1 = Rain/Light Sensor (G397) installed (PR-8K3/8K7/9C7/8K9) (sensor de lluvia/luces instalado)

xx?xx: *Trailer Hitch* (enganche de remolque)

- 0 = Trailer Hitch not installed (PR-1D0) (no instalado)
- 1 = Trailer Hitch installed (PR-1D2) (instalado)

xxx?x: *Headlights* (Faros)

- 0 = Halogen Headlights w/o Daytime Running Lights (PR-8Q0/8Q1+8K0/8K7) (Halogenos sin luz diurna)
- 1 = Halogen Headlights with Daytime Running Lights (PR-8Q0/8Q1+8K1/8K3/9C6/9C7) (Halogenos con diurnas)
- 2 = Bi-Xenon Headlights with Daytime Running Lights (PR-8Q3/8Q5+8K9/8K4) (bixenon con luz diurna)
- 3 = Bi-Xenon Headlights w/o Daytime Running Lights (PR-8Q3/8Q5+8K0/8K7) (bixenon sin luz diurna)
- 4 = Bi-Xenon Headlights with Daytime Running/Tail/License Plate Lights (PR-8Q3/8Q5+8K1/8K3) (bixenon con luz diurna/cola/luces de matricula)

xxxx?: *Country* (País)

- 1 = Rest of World/Nordic Countries/Denmark/Croatia/Baltic Countries with Bi-Xenon
- 2 = Nordic Countries/Denmark/Croatia/Baltic Countries without Bi-Xenon
- 3 = USA/Canada with Bi-Xenon
- 4 = Canada without Bi-Xenon
- 5 = Special Vehicles

2 Adaptation

Channel 001: Coming Home Time (Tiempo del coming home)

Activation Time of the Coming Home Lighting. (tiempo de activación de las luces del coming home)
Standard: 30 Seconds
Range: 0...60
Increments: 1 Second

Channel 002: Brake Light Dimming (Oscurecimiento de la luz de freno)

Standard: 30 %
Range: 13...40 %

Channel 003: Tail Light Dimming (Oscurecimiento de las luces traseras)

Standard: 32 %
Range: 13...40 %

Channel 004: Rear Fog Light Dimming (Oscurecimiento de la luz delantera de niebla)

Standard: 28 %
Range: 13...40 %

Channel 005: Daytime Running Lights Dimming (Low Beam) (Oscurecimiento de la luz diurna (Luz de cruce))

Affective with Halogen only. Solo para halogenos
Standard: 92 %
Range: 51...100 %

Channel 006: Daytime Running Lights Dimming (High Beam) (Oscurecimiento de la luz diurna (Luz de carretera))

Affective with Bi-Xenon only. Solo para Bixenon
Standard: 70 %
Range: 51...100 %

Channel 007: Daytime Running Lights Dimming (Fog Lights) (Oscurecimiento de la luz diurna (Luces antinieblas))

Affective for Canada only. Solo para Canadá
Standard: 92 %
Range: 51...100 %

Channel 008: Daytime Running Lights (Luces diurnas)

> Standard: 1 (ON)
> 0 = Daytime Running Lights OFF
> 1 = Daytime Running Lights ON

Channel 009: Switch-Off Delay (Low Beam) (Retardo de desconexión (Luz de cruce))

Low Beam Switch-Off Delay with Light Switch in AUTO Position. Retardo de desconexión de las luces de cruce cuando el interruptor de las luces esta en AUTO

> Standard: 51
> Range: 0...64

Channel 010: Low Beam Response (Respuesta de las luces de cruce)

0 = Parking Lights OFF after Terminal S OFF Luces de parking apagadas despues de apagar el contacto
1 = Parking Lights Remain ON after Terminal 15 OFF Luces de parking encendidas despues de apagar el contacto

Channel 011: Low Beam Response (Terminal 15) (Respuesta de luces de cruce (contacto)

> 0 = No Parking Lights Sin luces de parking
> 1 = Alarm at Door Open Alarma de puerta abierta
> 2 = Parking Lights OFF at Door Open Luces de parking apagadas con la puerta abierta

Channel 012: Highway/Comfort Blinking (carretera/confort intermitentes)

> 0 = Highway/Comfort Blinking OFF Apagado
> 1 = Highway/Comfort Blinking ON Encendido

Channel 013: Wiper Setup (Instalación de limpiaparabrisas)

> Standard: 115
> +001 = Speed Reset resetear velocidad
> +002 = Short to Plus Monitoring ni idea de que es esto
> +004 = Rain Sensor active Sensor de lluvia activo
> +008 = Long Post Wiping after Washing (Drop/Tear Wiping) Barrido largo despues de lavar (Gota/lagrima barrido)
> +016 = Speed dependent Wiper interval active (velocidad del limpia según intervalo activa)
> +032 = Headlight Washer System active (lavafaros activo)
> +064 = Reverse Gear Wiping active (Limpia trasero activado)

Channel 014: NAR Parking Light Deactivation (NAR ES NORTH AMERICAN REGION desactivacion de la luces de parking de norteamerica)

> 0 = Parking Lights inactive
> 1 = Parking Lights active

Channel 016: Fog Light Cold Diagnosis Diagnosis fria de las luces de niebla

> 0 = Fog Light Cold Lamp Diagnosis active
> 1 = Fog Light Cold Lamp Diagnosis inactive (i.e. for DTM Edition)

Channel 020: Rain-/Light Sensor Setup Instalacion de sensor de luces y lluvia

> Standard: 2
> +01 = Highway Light Luz de carretera
> +02 = Rain Light Luz de lluvia

Channel 021: Assistance Light Sensor Correction Corrección del sensor de luces de asistencia

> Standard: 59 %

Channel 022: Transmission Grade (Front Window) Grado de transmision parabrisas delantero

Rain Sensor Transmission Grade at 880 nm.

> Standard: 45 %

Channel 081: Component Protection Proteccion de componentes

To start the process of Vehicle Identification Number (VIN) learning, enter/save **46992** as new value.

[16] - Steering Wheel (VOLANTE)

1 Coding

0?xxx: *Steering Wheel* Volante
- 0 = Standard (without Multifunction) sin multifuncion
- 1 = 3-Spoke Steering Wheel (Sport Steering Wheel) sport
- 2 = Multifunction Steering Wheel with Radio Control con controles de radio
- 3 = Multifunction Steering Wheel with Radio/Telephone Control controles de radio y telefono
- 4 = Multifunction Steering Wheel with Radio/Telephone/Voice Control radio telefono y voz
- 5 = Multifunction Steering Wheel with Radio/Voice Control radio y voz

0x?xx: *Options*
- +1 = Tiptronic

0xx?x: *Board Computer & Cruise Control*
- 0 = Board Computer & Cruise Control not installed ordenador de abordo y control de crucero no instalados
- 1 = Board Computer installed ordenador de abordo instalado
- 2 = Cruise Control installed control de crucero instalado
- 4 = Board Computer & Cruise Control installed ordenador y control instalados

0xxx?: *Rear Wiper (Chassis)* Limpiaparabrisas trasero
- 1 = Rear Wiper not installed (Sedan/Cabriolet)
- 2 = Rear Wiper installed (Avant)

2 Adaptation

2.1 Channel 081: Vehicle Data Learning

To start the process for vehicle data (VIN) learning, enter/save **00111** as new value.

[17] - Instrument Cluster (CUADRO DE INSTRUMENTOS)

1 Coding

00??xxx: *Options I*
- +00 = 1. K-Number (Europe/USA/Rest of World)
- +01 = Smaller Fuel Tank Volume (All-Wheel-Drive) Menor volumen de depósito de combustible
- +02 = Side Marker Lights Indicator Lamp inactive Lampara de luz marcadora de lado inactiva
- +04 = 3. K-Number (Rental Cars) (Coches de alquiler)
- +08 = 2. K-Number (Australia)
- +16 = Clutch Pedal Switch Operation in FIS Display (Mostrar en el FIS pisar pedal de freno)

00xx?xx: *Country País*
- 0 = Germany (D)
- 1 = Rest of World (RoW) Resto del mundo
- 2 = USA (US)
- 3 = Canada (CAN)
- 4 = Great Britain (GB)
- 5 = Japan (JP)
- 6 = Saudi Arabia
- 7 = Australia (AUS)

00xxx?x: *Seatbelt Warning Aviso del cinturón de seguridad*
- 0 = No Seatbelt Warning Sin aviso
- 1 = Seatbelt Warning Europe-NCAP Aviso europeo
- 2 = Seatbelt Warning USA and Canada (NAR old)
- 3 = Seatbelt Warning USA and Canada (NAR new)
- 4 = Seatbelt Warning Europe-NCAP (incl. passenger) Aviso europeo incluyendo pasajero
- 5 = Seatbelt Warning USA and Canada old (incl. passenger)
- 6 = Seatbelt Warning USA and Canada NAR new (incl. passenger)

00xxxx?: *Options II*
- 1 = Standard (< 11/2006)
- 4 = Washer Fluid Warning inactive (11/2006 >) Aviso de liquido limpiaparabrisas inactivo
- 8 = Washer Fluid Warning active (11/2006 >) Aviso de líquido limpiaparabrisas activo

2 Adaptation

Channel 029: Tank Characteristic (Fuel Level Sensor 2) Características del depósito (sensor 2 de nivel de combustible)

Parallel shift of tank characteristic by +/- 32 Ohm. *Only for Quattro models.*
- Standard Value: 128
- Value Range: 96...160 (-8.0...+8.0 l)
- Increments: 1 = 1 Ohm = 1/4 l

Channel 030: Tank Characteristic (Fuel Level Sensor 1)

Parallel shift of tank characteristic by +/- 32 Ohm.
- Standard Value: 128
- Value Range: 96...160 (-8.0...+8.0 l)
- Increments: 1 = 1 Ohm = 1/4 l

Channel 032: Tank Characteristic (Not detactable Tank Volume)

The tank volume which is not recordable by the fuel gauge sender(s).

Channel 033: Tank Characteristic (Full Calibration) Calibración de combustible

Non-parallel shift of the tank characterictic above a readout of 1/2. To start the adaptation enter '65535' as new value.
- Standard Value: 128
- Value Range: 112...144 (-4.0...+4.0 l)
- Increments: 1 = 1 Ohm = 1/4 l

Channel 034: Tank Characteristic (Dry Calibration)
Channel 035: Speed Threshold Umbral de velocidad

This value represents the speed threshold for the dynamic oil pressure system. The threshold can be raised in increments of 250 RPM. Umbral de velociad para el Sistema dinámico de presión de aceite.

Channel 060: CAN-Databus Powertrain (Installation List) Tren motriz

- +00001 = Engine (Standard) Motor
- +00002 = Automatic Transmission (Optional) Transmisión automatica
- +00004 = Brake (Standard) frenos
- +00016 = Airbag (Standard) Airbag
- +01024 = Instrument Cluster (Standard) Cuadro de instrumentos

Channel 061: CAN-Databus Comfort (Installation List) Comfort

- +00001 = Central Electronics (Standard) Electronica central
- +00002 = Comfort System (Standard) Sistema de confort
- +00064 = Trailer (Optional) Remolque
- +00128 = Convertible Top (Optional) Techo solar
- +00256 = Instrument Cluster (Standard) Cuadro de instrumentos
- +00512 = Tire Pressure Control (Optional) Control de presión de neumaticos
- +01024 = Steering Column Electronics (Standard) Columna de dirección
- +02048 = Climate Control (Standard) Clima
- +32768 = Auxiliary Heating (Optional) Calefacción auxiliar

Channel 062: CAN-Databus Infotainment (Installation List) Entretenimiento

- +00001 = Radio (Optional) Radio
- +00002 = Telephone (Optional) Teléfono
- +00004 = Navigation (Optional) Navegador
- +00008 = Telematics (Optional) Telematica
- +00016 = Intrument Cluster (Standard - only coded with 2nd Component) Cuadro de insturmentos

Channel 099: Transport Mode Modo de transporte

- 0 = inactive
- 1 = active

Note: *Some head units require a seperate transport mode deactivation (Adress 56 > Adaptation Channel 099).*

[45] - Interior Monitoring (VIGILANCIA INTERIOR)

1 Coding

00001 = Standard (Sedan/Avant)

2 Adaptation

Channel 001: Sensitivity Sensibilidad

- Range: 50...100 %

- Standard: 100 %

[46] - Comfort System (SISTEMA CONFORT)

1 Coding

- +00001 = GB-Alarm (not USA) Alarma Inglesa
- +00002 = Confirmation Anti-Theft Warning System (Blink) Confirmación del sistema de aviso antirrobo
- +00004 = Selective Central Locking (SCL) Cierre central selectivo
- +00008 = Anti-Theft Warning System Sistema de aviso antirrobo
- +00016 = Rear Lid Release Locking at 5 km/h Liberación de la tapa trasera de cierre a
- +00032 = Central Locking at 15 km/h (or 10 mph) Cierre central a 15 km/h
- +00064 = Comfort Function via Remote Control (not USA) Función confort via mando
- +00128 = Right Hand Drive (RHD) Conducción en el lado derecho
- +00256 = Avant
- +00512 = Confirmation Close via Remote (1x Blink) Confirmación de cierre via mando
- +01024 = Confirmation Anti-Theft Warning System Horn Activation Confirmacion de la bocina de activación del Sistema de aviso antirrobo
- +02048 = Door-/Window Regulator Logic Regulador lógico de puerta/ventana
- +04096 = Thatcham Anti-Theft Warning (not USA) Thatcham aviso antirrobo
- +08192 = No Safe-Function Funcion no segura
- +16384 = Side Windows with Insulated Glass Ventanas laterales con vidrio aislante

Note: *Coding is the sum of the individual options. Not all options apply for all control modules!*
La codificación es la suma de las opciones individuales. No todas las opciones se aplican para todos los módulos

- *Registered customers can contact us directly via email for assistance. Every inquiry on this topic must include a full Auto-Scan as well as which parts have been replaced and why.*

2 Adaptation

Channel 000: Remote Control Clearing Liberación del control remoto

This Adaptation Channel is used to clear all matched Remote Controls. This is often necessary prior to matching new remotes.
Esta adaptación se usa para borrar todos los mandos vinculados. Es necesario para vincular nuevos mandos.

Channel 021: Remote Control Matching Vincular un mando

[Select]
[46 - Central Convenience]
[Adaptation - 10]
Channel 021.
[Read]

- Choose the memory position you want the new key be matched on by entering it's number (e.g. "3" for memory position 3). Make sure to TYPE IN the number instead of scrolling up to it, otherwise you will not be able to click [Test].

Elige la posición de la memoria donde quieres que se vincule la llave introduciendo el número. Por ejemplo introduce 3 para la posición de memoria 3. Asegurate de que teclear el numero en vez de desplazarte con la rueda del ratón ya que no estará disponible para hacer click.
[Test]

- Now press any button on the remote you want to match. Ahora aprieta cualquier botón del mando que quieres vincular
- The meas. block field above will change from *Not Recogn.* to *Recognized.* El cuadro de confirmación debe cambiar de No reconocido a Reconocido.

[Save]

[Done, Go Back]
[Close Controller, Go Back - 06]
Notes: *You can check the current memory positions using Meas. Block 007. If remotes are recognized but not functional see the Remote Control Synchronization procedure and Special Notes .*

Channel 061: Variant Reduction Reduccion variante

- +1 = Rear Mechanical Window Regulators (PR-4R5) installed Reguladores mecanicos de las ventanillas traseras instalados
- +2 = Footwell Lights (PR-QQ1) installed Luces de los pies instaladas
- +4 = Fuel Tank Lid/Flap Release Button (PR-4K2/4K8) installed Botón de liberación de la tapa del depósito de combustible instalada

Note: *Adaptation value is the sum of the individual options.*

Channel 062: Comfort Functions Funciones de comfor

- +001 = Comfort closing via remote for window regulators (not USA) Cerrar las ventanillas con el mando
- +002 = Comfort opening via remote for window regulators (not USA) Abrir las ventanillas con el mando
- +004 = Comfort closing via lock cylinder for window regulators Cerrar las ventanillas con el cilindro de cierre
- +008 = Comfort opening via lock cylinder for window regulators Abrir las venanillas con el cilindro de cierre
- +016 = Comfort closing via remote for sunroof (not USA) Cerrar el techo via mando
- +032 = Comfort opening via remote for sunroof (not realized) Abrir el techo via mando
- +064 = Comfort closing via lock cylinder for sunroof Cerrar el techo via cilindro
- +128 = Comfort opening via lock cylinder for sunroof (not realized) Abrir techo via cilindro

Note: *Adaptation value is the sum of the individual options.*

3 Special Procedures Procedimientos especiales

3.1 Remote Control Synchronization Sincronización del mando

The 8E/8H platform Audi A4 is noted for losing remote control synchronization after low voltage conditions as explained in several TSBs. If the remotes are not functional after performing the Remote Control Matching the following synchronization may be necessary:
Se suele perder la sincronización del mando después de condiciones en las que la pila esta baja. Si el mando no funciona despúes de vincularlo se deber realizar la siguiente sincronización:

- Press any button on remote control. Presiona cualquier botón
- *If vehicle does not respond by locking or unlocking: Si el coche no se abre o Cierra:*
- Lock and unlock vehicle within 30 seconds using driver-side lock with the door closed. Abre y Cierra el coche despues de 30 segundos con la puerta del conductor cerrada
- Open the door and insert the key in the ignition turning it to the On position. Abre la puerta e inserta la llave en el contacto y enciendelo.
- Remove the key from the ignition. Saca la llave
- Press any button on remote control. Presiona cualquier botón
- Now check function of synchronized remote control. Comprueba que esta sincronizado

4 Special Notes

The 8E/8H platform comfort system module has assigned positions, like parking spots 1, 2, 3 and 4, for each remote. This is critical when matching new remotes.
El sistema confort tiene por defecto asignadas 4 posiciones para cada llave, 1, 2, 3 y 5

- If you are having problems with the Remote Control Matching, please pay special attention to the instructions above:
Si estas teniendo problemas al sincronizar el mando sigue estas intrucciones:
- *Make sure to TYPE IN the number instead of scrolling up to it, otherwise you will not be able to click [Test]. Asegurate de teclear el número en vez de bajar con el ratón*

5 Video Link

2001 - 2008 A4 (8E/8H) Remote Learning

http://www.youtube.com/watch?v=o_DrT8W-_uQ

[77] - Telephone (TELÉFONO)

1 Coding

0?xxxxx: *Brand Marca*
- 0 = Audi
- 1 = Seat

0x?xxxx: *Functions Funciones*
- 0 = Basic (for RNS-E basic/Radio)
- 1 = Comfort (for RNS-E high/RNS-Low)

0xx?xxx: *Steering Wheel Volante*
- 0 = No Multi-Function OR Standard Steering Wheel (Old Style without Menu Thumb Wheels)
- 1 = Modular Steering Wheel (New Style with Menu Thumb Wheels)

0xxx?xx: *Installation List lista de instalacion*
- 1 = Diagnostics via CAN
- 2 = Multi-Function Steering Wheel, Diagnostics via CAN
- 3 = Head Unit (e.g. RNS-E), Diagnostics via CAN
- 4 = Multi-Function Steering Wheel, Head Unit (e.g. RNS-E), Diagnostics via CAN
- 5 = Diagnostics via K-Line
- 6 = Multi-Function Steering Wheel, Diagnostics via K-Line
- 7 = Head Unit (e.g. RNS-E), Diagnostics via K-Line
- 8 = Multi-Function Steering Wheel, Head Unit (e.g. RNS-E), Diagnostics via K-Line

0xxxx?x: *Language (Voice Control) Idioma*
- 0 = Voice Control OFF *OR* via external Device (e.g. RNS-E)
- 1 = German
- 2 = English (UK)
- 3 = French
- 4 = Italian
- 5 = Spanish
- 6 = Czech
- 7 = English (US)
- 8 = French (CA)
- 9 = Speaker dependent (Voice Commands inactive, Acoustic Name Selection active)

0xxxxx?: *Language (Display)*
- 0 = No Display
- 1 = German
- 2 = English (UK)
- 3 = French
- 4 = Italian
- 5 = Spanish
- 6 = Czech
- 7 = English (US)
- 8 = French (CA)

2 Adaptation

Bluetooth

[Select]
[77 - Telephone]
[Adaptation - 10]
Channel 133
[Read]

- 0 = Bluetooth OFF
- 1 = Bluetooth ON

[Test]
[Save]
[Done, Go Back]
[Close Controller, Go Back - 06]

Hands Free Function Función manos libres

[Select]
[77 - Telephone]
[Adaptation - 10]
Channel 134
[Read]

- 0 = Hands-free active while Bluetooth connection is active but without cell phone engaged; Manos libres activo mientras el blutud esta activado sin teléfono
- 1 = Hands-free only active with cell phone engaged Manos libres solo activado cuando el teléfono está vinculado

[Test]
[Save]
[Done, Go Back]
[Close Controller, Go Back - 06]

Bluetooth Pass Key Código del Bluetooth

[Select]
[77 - Telephone]
[Adaptation - 10]
Channel 135
[Read]
Set the 4-digit Bluetooth pass key using this channel. Selecciona la clave de 4 digitos usando este canal
[Test]
[Save]
[Done, Go Back]
[Close Controller, Go Back - 06]