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ECU - Electronic Control Unit

In terminology of VW-group it's any electronic device, which has been carried out some logic function. Sometimes it looks like nonsens - even simple relay can be called ECU.

The coding of Electronic Control Unit used for explain the ECU where it is and what "neighbours" does it have. Very often on modern cars the coding is crossed with adaptation.

Adaptation of the Electronic Control Unit serves to explain to the ECU with whom and how to talk (If we have started to speak allegories) and serves as storehouse of various adjustable parameters. (part of memory in the Control Unit which can be changed via internal software)

Measured Values Blocks (MWB) – various parameters being inbound or calculated. Considering to value of MWB Electronic Control Unit, trying to "control"... Using of MWB allows you (if you know the basic parameters) to find out "close to boundary" or temporarily arising (intermittent, sporadic) malfunctions and many other useful things at competent use.

Audi A4 8K (2008-) | 08 | Climatronic

J255_8K_87_____1_0706_21_Anpassung.htm
 J255_8K_87_____1_0706_21_ersetzen.htm
 J255_8K_87_____1_0706_21_Grundeinstellung.htm
 J255_8K_87_____1_0706_21_MWB_lesen.htm
 J255_8K_87_____1_0706_21_MWB_selektiv_lesen.htm
 J255_8K_87_____1_0706_21_Stellgliedtest.htm
 J255_8K_87_____2_0706_21_Stellgliedtest.htm

Site news

► November 30, 2012

Content update We are starting big site update. We are sorry for bugs and missed content.

We are especially grateful for financial support of our site

Basic setting of Climatronic control unit -J255

YZ Notes:

J In a newly fitted Climatronic control unit -J255, "AC" mode is active until the basic setting in display groups 001 and 003 has been successfully run at least once (the warning lamp in the AC button is not lit). Only when the basic setting in display groups 001 and 003 has been successfully run can AC mode be activated.

J After being activated, the basic setting in display group 001 is run to its end (even if the ignition is switched off and back on in the meantime or the link to the tester or the self-diagnosis is aborted).

J If a control motor has been replaced or its position on the air conditioner unit changed, the basic setting in display group 004 must first be performed (automatic addressing of control motors). The basic setting in display group 001 can only be performed successfully when that has been done.

J Until the basic setting has been successfully run the fault memory shows the "basic setting not performed" fault is displayed with the fault type. When the basic setting has been successfully performed the fault is automatically cleared.

J After being activated, the Climatronic control unit -J255- takes a certain time to perform the basic setting function (for example 1... 2 minutes for the basic setting in display group 001)

J If a preset value is not attained during basic setting, check the adaption for this function

J If a fault is detected in the stop or in the adjustment range for a control motor in operation or during basic setting, check the adaption for this function.

Basic setting 001

On activation of the basic setting function, depending on the version of Climatronic control unit -J255- the various components which must be calibrated by way of a basic setting are activated.

J If a control motor has been replaced or its position on the air conditioner unit changed, the basic setting in display group 004 must have been successfully completed.

- To be able to identify immediately that the Climatronic control unit -J255- is in basic setting mode:

J the warning lamp in the AC button begins to flash (basic version),

J the display readouts begin to flash (comfort version).

- During basic setting the various control motors of the air conditioner are activated so that they reach both stop limits. The stop limits are stored in the process according to the previously learned layout for the various control motors on the air conditioner unit. Wait for the basic setting to finish.

- When the basic setting has been successfully performed, the Climatronic control unit -J255- transmits the message "Basic setting performed" (this message is not always displayed on the tester).

J The warning lamp in the AC button, or the warning on the display as appropriate, is now steadily lit instead of flashing.

YZ Notes:

J If a control motor has been replaced or its position on the air conditioner unit changed, the basic setting in display group 001 can only be performed successfully if the basic setting in display group 004 (Automatic addressing of control motors) has first been successfully completed.

J In this vehicle the various control motors on the air conditioner unit are adapted and activated by way of a data wire. By this data wire (LIN bus) the various control motors are connected in series to the Climatronic control unit -J255-. If there is a fault in a control motor or in the wiring, it may result in different fault memory entries with different fault types (Automatic addressing faulty, for some control motors Upper limit surpassed or Lower limit not achieved, etc.). See block diagram of air conditioner control motors (Current Flow Diagrams, Electrical Fault-finding and Fitting Locations).

J On vehicles with a comfort air conditioner and optional seat ventilation, during this basic setting the various seat ventilation control units are also coded and allocated (by way of the onboard power supply control unit -J519 or the control unit for seat and steering column adjustment with memory -J136 and the control unit for front passenger seat adjustment with memory -J521). (Differing activation and seat ventilation control units. Depending on vehicle type and specification.)

Basic setting 002

Initial commissioning of air conditioner/compressor.

- No basic setting is currently planned for Service in display group 002. (Intended for compressor inlet and cold output test at manufacturer.)

- The cold output test function intended for the basic setting in display group 002 is performed on this vehicle when the basic setting is initiated in display group 003.

- If the basic setting in display group 002 is initiated unintentionally in Service: J the warning lamp in the AC button on the Climatronic control unit -J255- starts to flash.

J the same conditions apply as for the basic setting in display group 003.

J If the specified values are not attained, or the basic setting is prematurely aborted, a fault memory entry is made (Run-in specification, no or incorrect basic setting) in the control unit.

J If, depending on version, the warning lamp in the AC button on the Climatronic control unit -J255- flashes until the ignition is switched off, abort Guided Fault Finding as necessary. Then switch the ignition off and back on again.

YZ Note:

If the basic setting in display group 002 was initiated unintentionally, and the fault "Run-in specification; no or incorrect basic setting" is displayed, perform the basic setting in display group 002 again in the same way as described for the basic setting in display group 003. Start the engine. The basic setting in display group 002 takes at least 2 minutes within the test sequence. When the preset time has elapsed switch off the ignition. Then perform the basic setting in display group 003 as described.

Basic setting 003**YZ Notes:**

J The basic setting in display group 003 can only be activated if the basic setting in display group 001 has been completed successfully.

J As long as the basic setting in display group 003 has not been successfully completed at least once, AC mode cannot be activated (the warning lamp in the AC button does not light) and in the fault memory the fault: Run-in specification is displayed, with fault type: no or incorrect basic setting. When the basic setting has been successfully completed the fault is automatically cleared.

J After activating the basic setting, you must wait for it to be terminated autonomously by the Climatronic control unit -J255- (the warning lamp in the AC button is lit steadily instead of flashing). If the basic setting is aborted prematurely, the Climatronic control unit -J255- stores a fault in the fault memory and various functions of the air conditioner cannot be selected.

J The duration and the temperatures specified during basic setting in display group 003 can be set by way of the adaption function.

J If the required measured values are not attained due to extreme ambient conditions (e.g. very high ambient temperature), perform this basic setting again at an engine speed of around 2000 rpm.

Initial commissioning of the compressor.

- This display group is actually reserved for production for initial commissioning of the air conditioner.

As the Climatronic control unit -J255- is identical for Production and Service, this function must also be performed for a new Climatronic control unit -J255- in Service on initial commissioning. When this basic setting has been successfully performed the run-in specification fault is automatically cleared.

- To enable this basic setting to be performed, the engine must run at least at idling speed and the dash panel vents must be open.

- After being activated, the Climatronic control unit -J255- takes about 5 minutes to perform this basic setting function.

- If you have activated this basic setting, wait for the basic setting to finish (the readout on the tester shows Basic setting completed and the warning lamp in the AC button on the Climatronic control unit -J255- is lit steadily instead of flashing).

J If the basic setting is aborted, such as by switching off the ignition, or if the measured values are not OK, the fault: Run-in specification - no or incorrect basic setting - remains stored in the Climatronic control unit -J255-. This fault can currently only be cleared if this function is run to completion and the measured values of the temperature sensors are within the specified lower and upper limits.

J During this basic setting the Climatronic control unit -J255- additionally checks the temperature of the air downstream of the evaporator. If the required measured values are not attained due to extreme ambient conditions (e.g. very high ambient temperature), perform this basic setting again at an engine speed of around 2000 rpm.

Basic setting 004**YZ Notes:**

J The control motors on this vehicle are equipped with electronics. A new control motor only learns its

position on the air conditioner unit in the course of basic setting and can then be activated by the Climatronic control unit -J255 (all control motors are identical at present).

J In this vehicle the various control motors on the air conditioner unit are adapted and activated by way of a data wire. By this data wire (LIN bus) the various control motors are connected in series to the Climatronic control unit -J255. If there is a fault in a control motor or in the wiring, this fault may lead to different fault memory entries with different fault types.

When the basic setting function is activated, depending on the version of Climatronic control unit -J255 the various control motors are assigned according to their fitting locations. During this basic setting the various control motors learn their assignment via their position in the wiring configuration (series connection) and store it permanently. Wait for the basic setting to finish.

