Change the engine control unit A1 M29-CM2200

Required Diagnosis

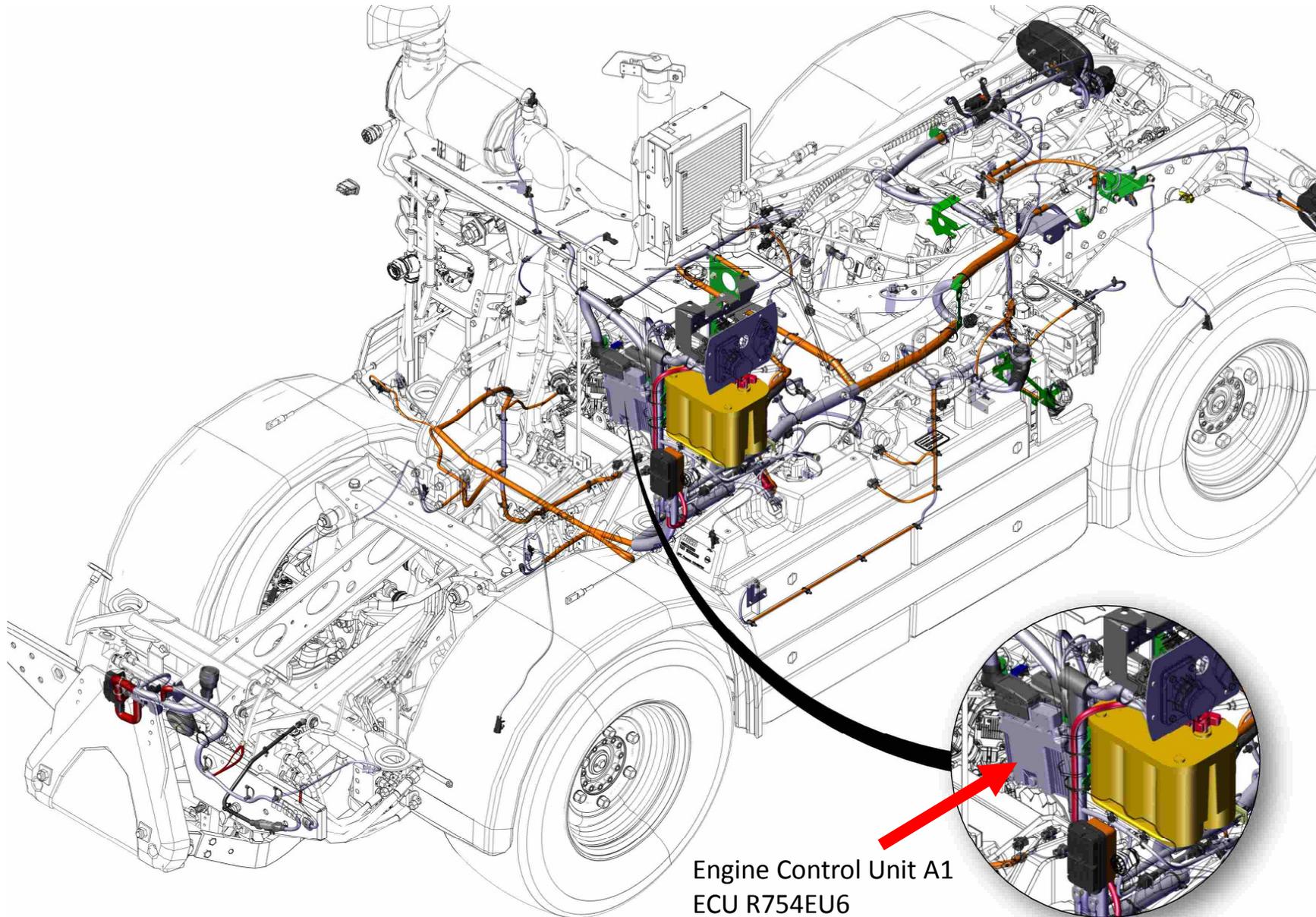| Service PC	VM version 4.8	USB cabel	VM-diagnostic tool ET-Nr. 4013942	OBD II

Safety instructions!

1. Careful, responsible handling of the diagnostic tool is essential.
2. No work other than the work described in these instructions must be carried out.
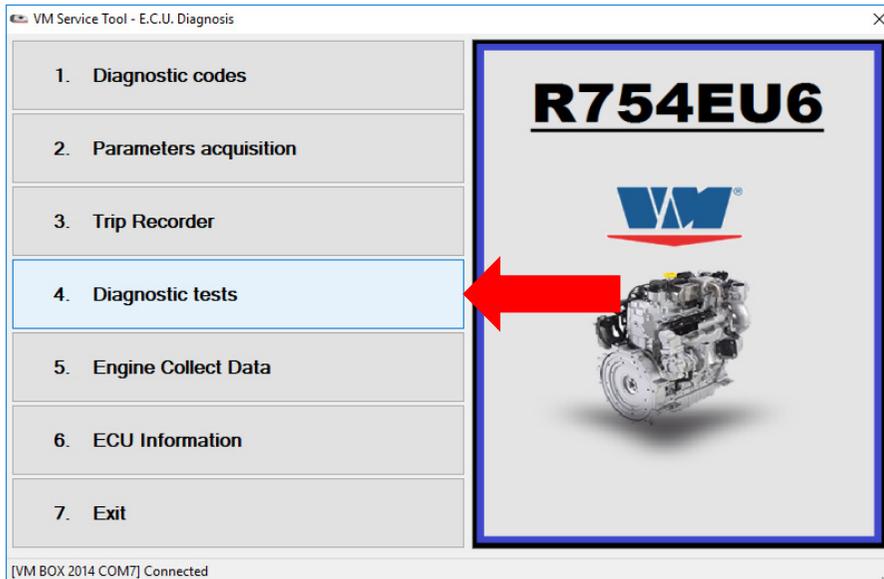3. No values other than the ones described in these instructions may be modified.

Attention!
A log file should be created before disassembling the old engine control unit. If this is not possible, the IMA codes of the injectors and the serial number of the engine must be read directly from the components.
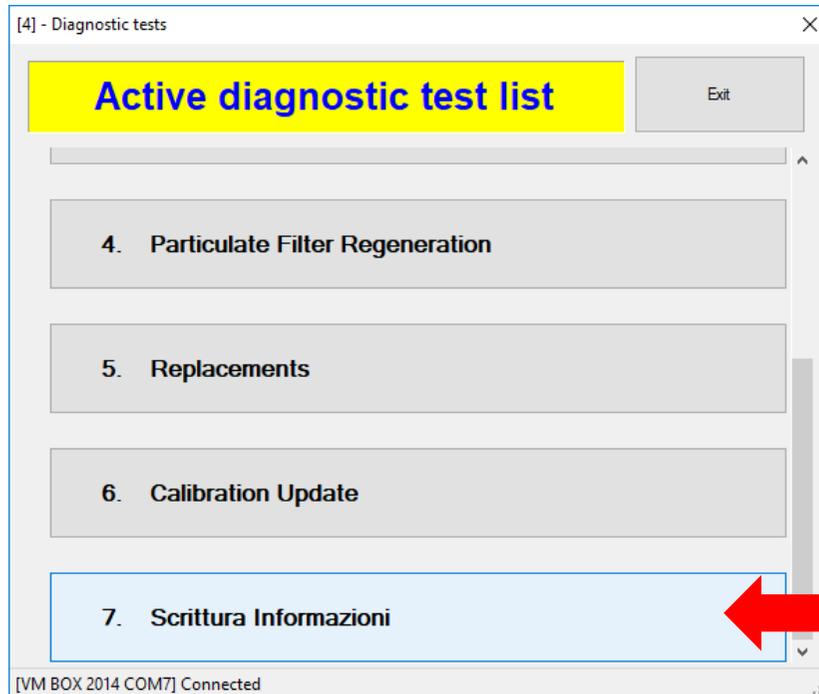
Engine Control Unit A1
ECU R754EU6
Part no.: 48604180000E

- After replacing the engine control unit A1, it is important to program the serial number of the engine and the IMA codes of the injectors.
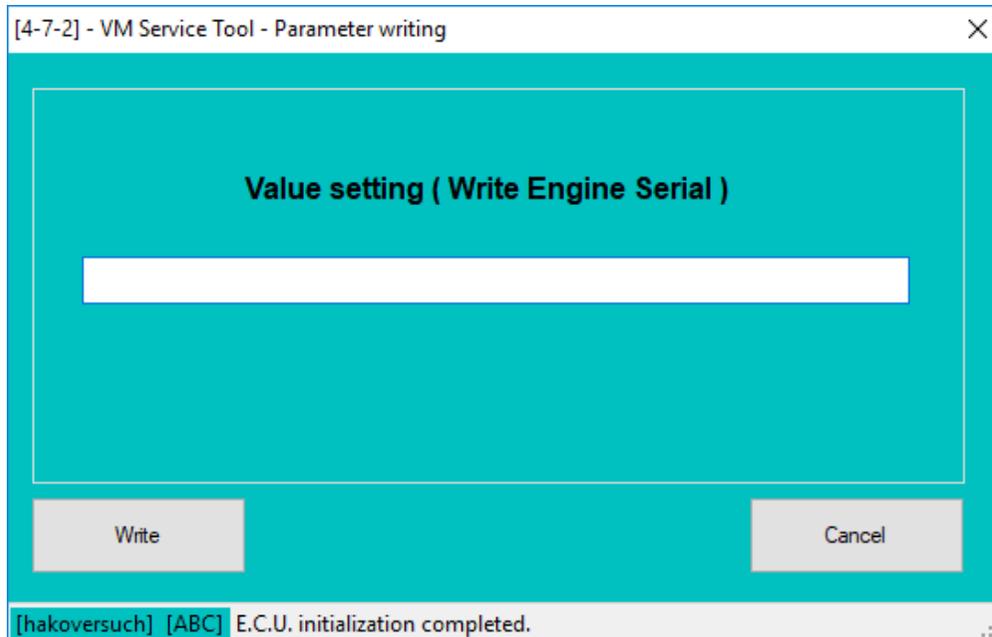

- To program the serial number of the engine, select "4. Diagnostics tests".
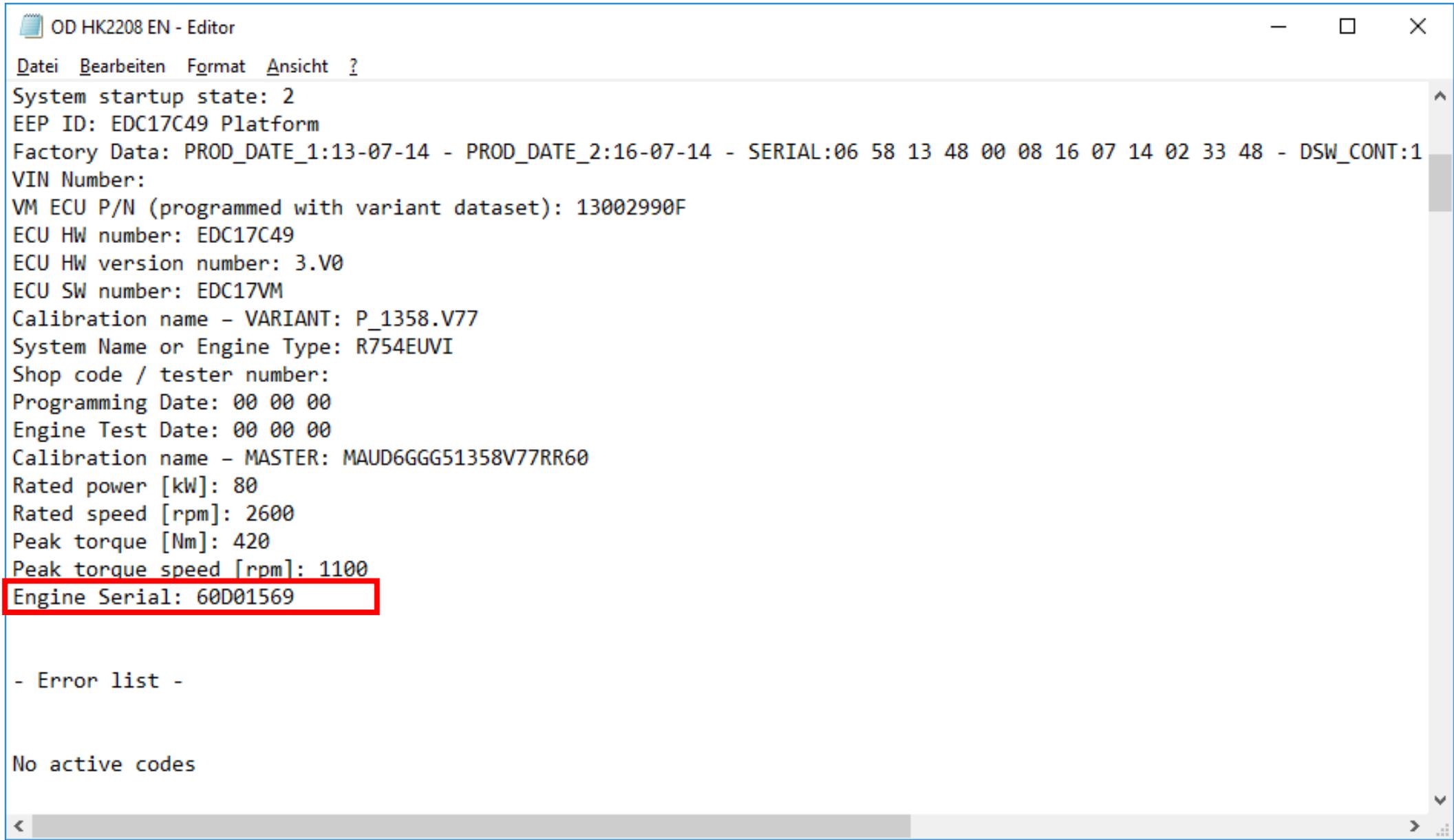
- Select „Scrittura Informazioni"

- Select „2. Write Engine Serial"

[4-7] - Active diagnostic test list

7. Scrittura Informazioni   Exit

1. **Write VIN**

2. **Write Engine Serial**

[4-7-2] - VM Service Tool - Parameter writing

Value setting (Write Engine Serial)

Write   Cancel

[hakoversuch] [ABC] E.C.U. initialization completed.

- Enter the serial number of the engine, which can be found at the Logfile of the old engine control unit (see following slide).
- If no Logfile from the old engine control unit is available, the serial number must be read directly from the engine.
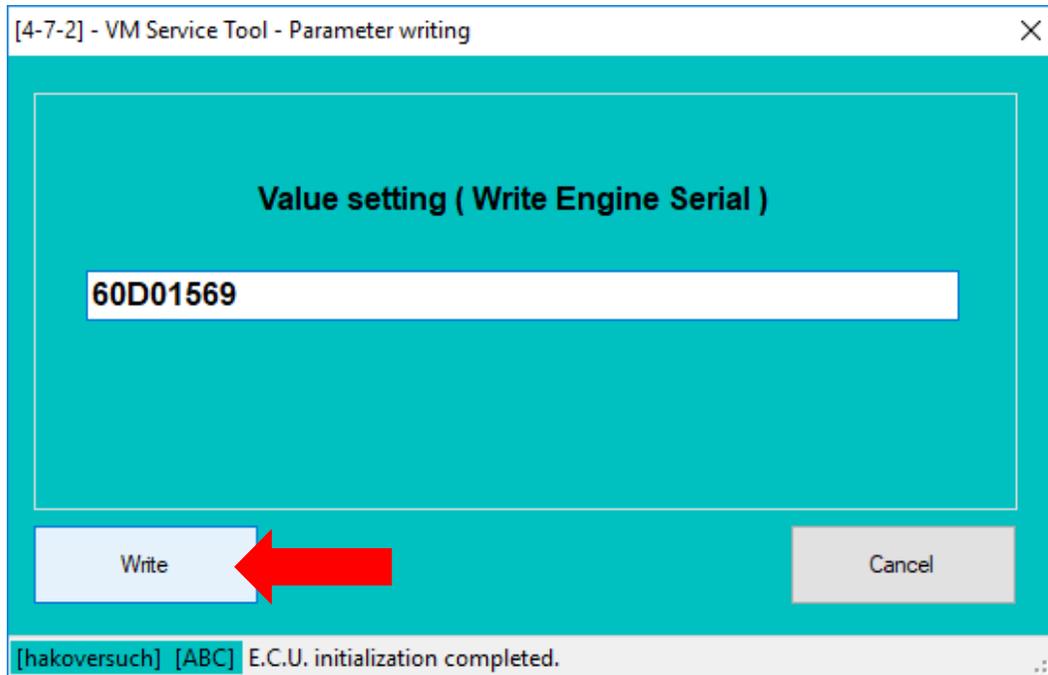
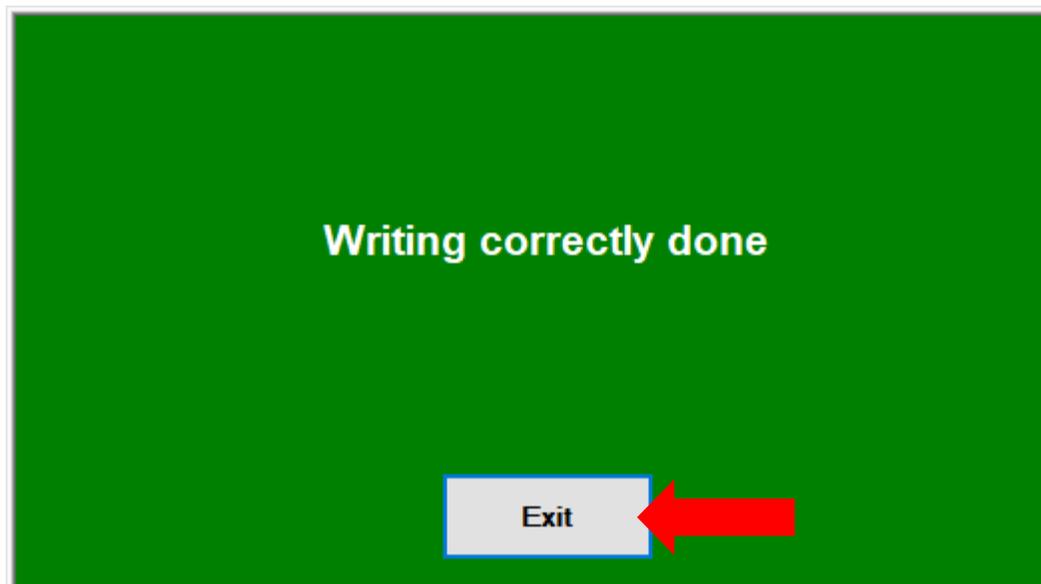- The logfile should be found on the hard disk C under VMLogfiles.

```
OD HK2208 EN - Editor                                              —   □   ✕

Datei  Bearbeiten  Format  Ansicht  ?
System startup state: 2
EEP ID: EDC17C49 Platform
Factory Data: PROD_DATE_1:13-07-14 - PROD_DATE_2:16-07-14 - SERIAL:06 58 13 48 00 08 16 07 14 02 33 48 - DSW_CONT:1
VIN Number:
VM ECU P/N (programmed with variant dataset): 13002990F
ECU HW number: EDC17C49
ECU HW version number: 3.V0
ECU SW number: EDC17VM
Calibration name – VARIANT: P_1358.V77
System Name or Engine Type: R754EUVI
Shop code / tester number:
Programming Date: 00 00 00
Engine Test Date: 00 00 00
Calibration name – MASTER: MAUD6GGG51358V77RR60
Rated power [kW]: 80
Rated speed [rpm]: 2600
Peak torque [Nm]: 420
Peak torque speed [rpm]: 1100
Engine Serial: 60D01569


- Error list -


No active codes
```
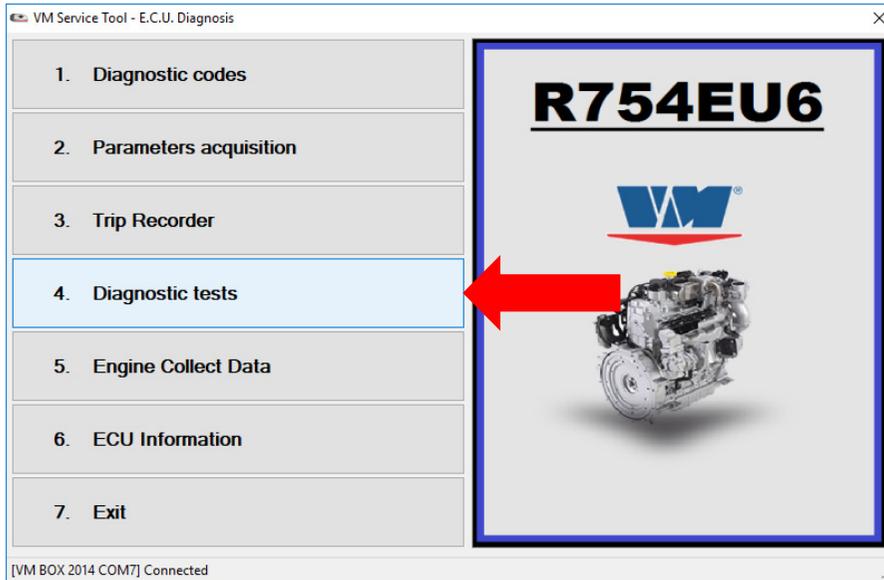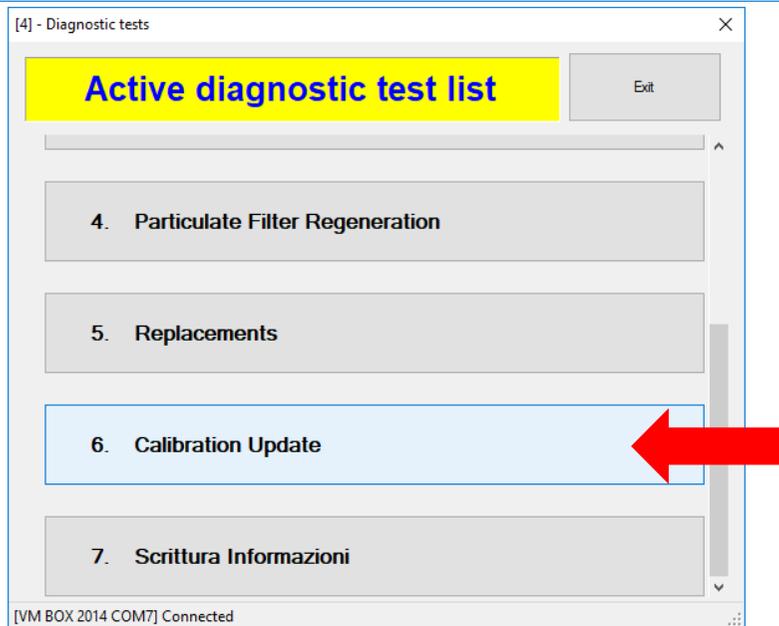
Hako

[4-7-2] - VM Service Tool - Parameter writing   ✕

Value setting (Write Engine Serial)

60D01569

Write   Cancel

[hakoversuch] [ABC] E.C.U. initialization completed.

- Save the entry with the button "Write".

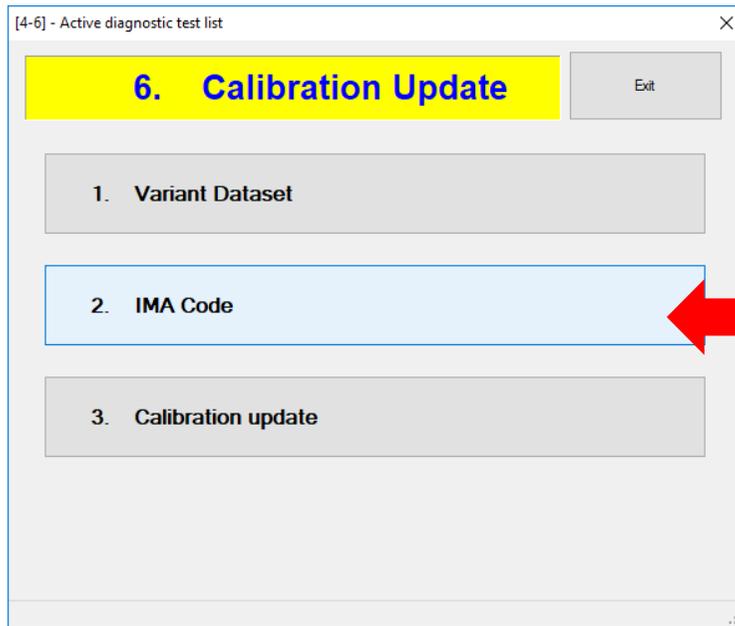**Writing correctly done**

Exit

- The programming of the motor serial number was successful as soon as the green window appears.
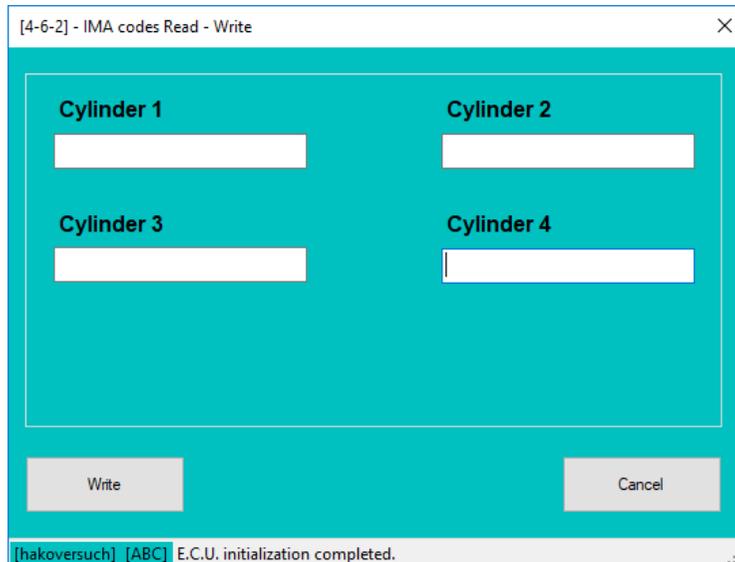- Confirm with „Exit".

- To program the IMA codes of the injectors, select "4. Diagnostics tests"
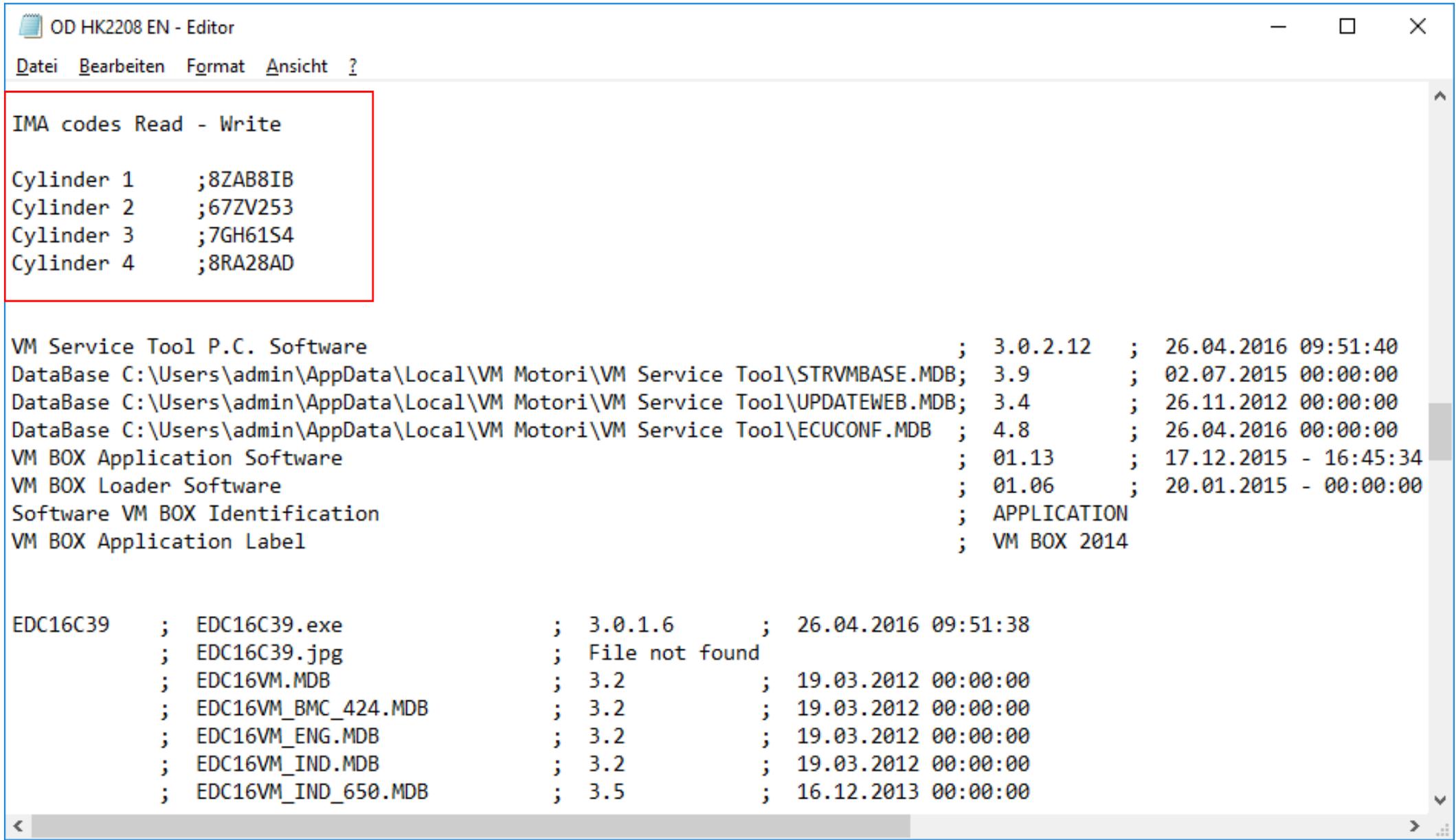
- Select „6. Calibration Update"

- Select „2. IMA Code"

- Enter the IMA Codes of the injektors, which can be found at the Logfile of the old engine control unit (see following slide).
- If no Logfile from the old engine control unit is available, the IMA Codes must be read directly from the injectors.

- Das Logfile sollten Sie auf der Festplatte C unter VMLogfiles finden.

```
OD HK2208 EN - Editor                                                           —   □   ✕

Datei  Bearbeiten  Format  Ansicht  ?

IMA codes Read - Write

Cylinder 1      ;8ZAB8IB
Cylinder 2      ;67ZV253
Cylinder 3      ;7GH61S4
Cylinder 4      ;8RA28AD


VM Service Tool P.C. Software                                    ; 3.0.2.12   ; 26.04.2016 09:51:40
DataBase C:\Users\admin\AppData\Local\VM Motori\VM Service Tool\STRVMBASE.MDB; 3.9        ; 02.07.2015 00:00:00
DataBase C:\Users\admin\AppData\Local\VM Motori\VM Service Tool\UPDATEWEB.MDB; 3.4        ; 26.11.2012 00:00:00
DataBase C:\Users\admin\AppData\Local\VM Motori\VM Service Tool\ECUCONF.MDB ; 4.8         ; 26.04.2016 00:00:00
VM BOX Application Software                                      ; 01.13      ; 17.12.2015 - 16:45:34
VM BOX Loader Software                                           ; 01.06      ; 20.01.2015 - 00:00:00
Software VM BOX Identification                                   ; APPLICATION
VM BOX Application Label                                         ; VM BOX 2014


EDC16C39    ;  EDC16C39.exe            ; 3.0.1.6     ; 26.04.2016 09:51:38
            ;  EDC16C39.jpg            ; File not found
            ;  EDC16VM.MDB             ; 3.2         ; 19.03.2012 00:00:00
            ;  EDC16VM_BMC_424.MDB     ; 3.2         ; 19.03.2012 00:00:00
            ;  EDC16VM_ENG.MDB         ; 3.2         ; 19.03.2012 00:00:00
            ;  EDC16VM_IND.MDB         ; 3.2         ; 19.03.2012 00:00:00
            ;  EDC16VM_IND_650.MDB     ; 3.5         ; 16.12.2013 00:00:00
```

- Save the entry with the button "Write"

- The programming of the IMA codes was successful as soon as the green window appears.
- Confirm with „Exit".