

Switch off ignition.



Connect diagnosis system.

Switch the ignition on.

Select "encoding" program.

Follow the instructions in the diagnosis system.

Adjust the following control units:

- EWS (electronic immobiliser)
- DME (Digital Motor Electronics) or
- DDE (Digital Diesel Electronics)

Follow Service Information "Diagnosis and Encoding" on the topic of encoding.

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**Important!**

Read and comply with [notes](#) on protection against electrostatic damage (ESD protection).

*Necessary preliminary tasks:*

- Read out the fault memory of the DDE control unit.
- Switch off ignition.
- [Follow instructions for removing and installing control units.](#)

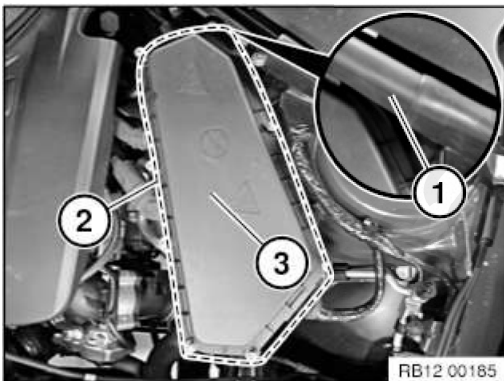
Replacement:

- Carry out programming/encoding.
- If no data can be read out from the previous control unit, carry out injection quantity compensation (description at end of instructions).

**Important!**

It is absolutely essential to read out the fault memory with the diagnosis system and produce a fault memory printout.

Switch off ignition.



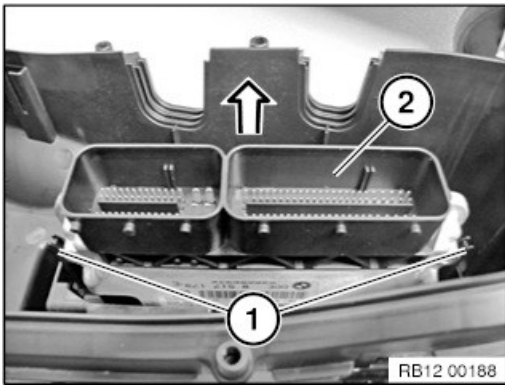
Partially loosen the rear gasket (1) for the engine compartment lid until the screw is accessible from the cover of the electronics box.

Release all screws along line (2).

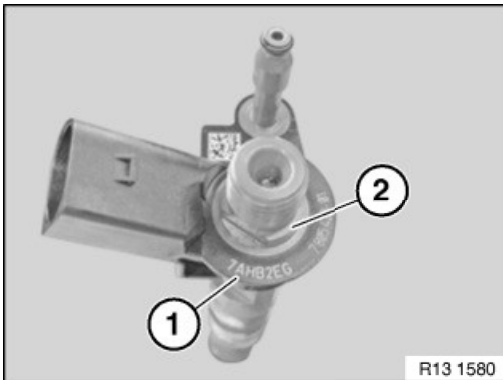
Remove the electronics box lid (3).



Unlock both connectors (1) in direction of arrow, disconnect connector from the control unit and set aside.



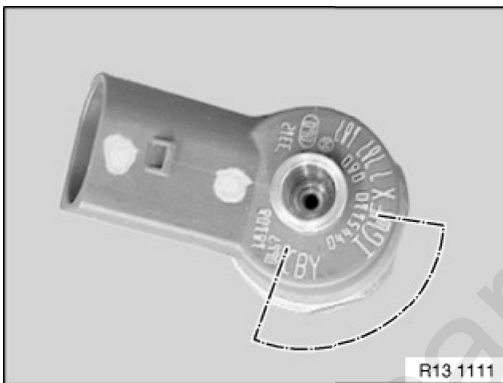
Release retainers (1) on control unit.
Pull out control unit (2) towards top.



Injection quantity compensation:

If the DDE control unit has been replaced, it will also be necessary to carry out adjustment of the injectors!

The adjustment value (1) (7-position letter code / number code) is engraved on each injector (2).



Enter the numbers/letters according to the installation location (cylinder) of the injectors.

- Select "DDE".
- Select "Adjustment, injection quantity compensation"
- Select "Test plan"

The adjustment must be entered for each injector.

It is necessary to adjust the injectors to ensure their full functional capability.



Note:

Check stored fault messages.

Clear diagnostic fault entries from fault memory.

**Important!**

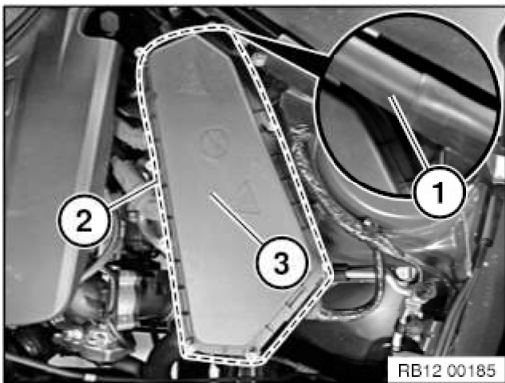
[Read](#) and comply with notes on protection against electrostatic damage (ESD protection)

*Necessary preliminary work:*

- Switch off ignition.

Important!

Follow [instructions](#) for removing and installing control units

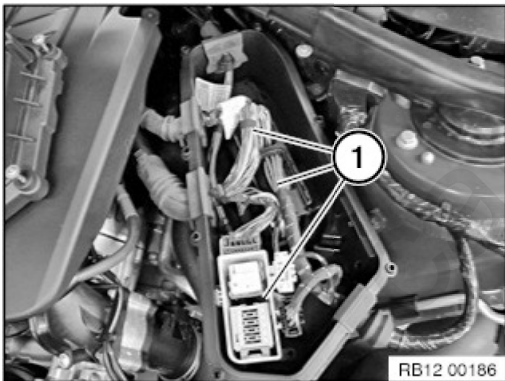


Partially loosen the rear gasket (1) for the engine compartment lid until the screw is accessible from the cover of the electronics box.

Release all screws along line (2).

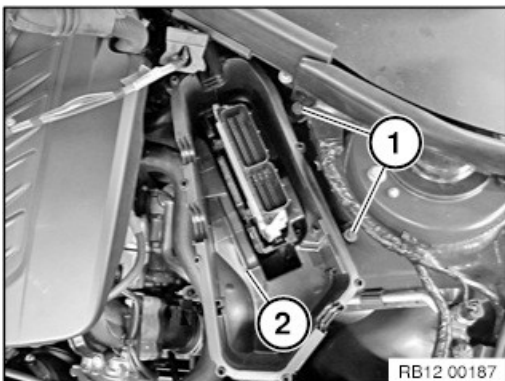
Tightening torque [12 90 1AZ](#).

Remove the electronics box lid (3).



Loosen all connectors and relay carriers (1) from the electronics box and set aside. *Installation note:*

Make sure rubber grommets are correctly fitted (watertightness).



Release screws (1).

Tightening torque [12 90 2AZ](#).

Pull the electronics box from the rubber grommet and remove through the top.



Note:

Check stored fault message.

Clear diagnostic fault entries from fault memory.

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