



Assembly Instructions

ABT-AEC for PL 48

- Audi Q5

Version: 22.11.2012



Assembly Instructions for ABT-AEC for PL 48

Car model: Audi Q5

Assembly time: approx. 120 min

Attention: To guarantee optimal function and security of the ABT AEC it is necessary to thoroughly read through the assembly instructions prior to work and to operate the installation as described.

Important steps to take before assembling the ABT AEC

Before starting the installation, the error memory of the vehicle in which the AEC will be installed has to be read out.

Error log entry:

- To repair possibly defects, please operate according to the manufacturer's instructions.
- After the repair it is necessary to once again take a test drive of minimum 30 km.

It is only allowed to install the ABT AEC into vehicles which are error-free at the time of installation.



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1. Information about electrical consumption

Power upgrades provided by an AEC increase the electrical consumption of a vehicle. An additional electric current flows. Besides this, the total current is depending on the car type, additional equipment or similar. In individual cases, considerable higher power consumption is possible.

The total power consumption determines how long a vehicle can be started without recharging the battery. Furthermore, this time is depending on the age and charging condition of the battery as well as on the outside temperature.

For vehicles which are used only sporadically, it is generally recommended to recharge the battery periodically. Thus the battery's durability can be prolonged.

In case the vehicle is not in use for longer than one week, we recommend replacing the AEC with a bridge adapter. In doing so, the additional power consumption is prevented. Due to the adapter, the vehicle remains ready to start and is in its original state.

This bridge adapter can be obtained separately.

While staying in countries with bad fuel quality we also recommend the usage of the bridge adapter.

2. Scope of delivery

Please check for completeness of delivery before starting the installation. In case the delivery is incomplete, please contact our service team at ABT Sportsline.

ABT Engine Control



Wiring harness



Optional included (for 1.8 / 2.0 petrol engines):

- 2 coding plugs
 - 1.8: black
 - 2.0: red-brown

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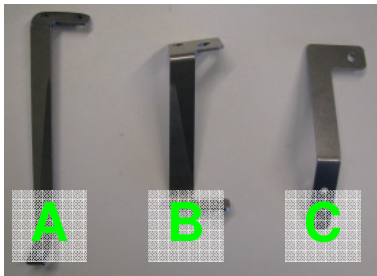
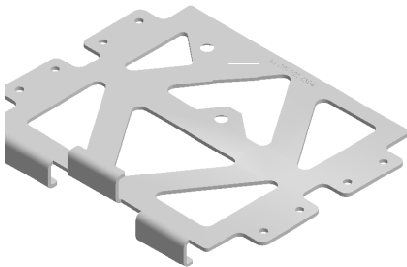


Bracket and Accessories Set

consisting of:



- ABT information sticker
- "ABT Power" sticker
- "98 ROZ Super Plus" sticker
- ABT service book
- 4 Retaining clips
- 8 Fillister head screws M5
- Screw M6
- 8 Nuts M5
- 8 Spring rings M5
- 12 Flat washers M5
- Large diameter washer M6
- 2 Plastic washer nuts
- Screw nut with corrugated disc M6
- 5 Cable ties (without figure)
- Adapter plate
- Additional bracket
 - A
 - B
 - C



3. Preparations at the vehicle



Remove the water tank cover.



Remove the splash water tank.



Remove the electrical box cover.

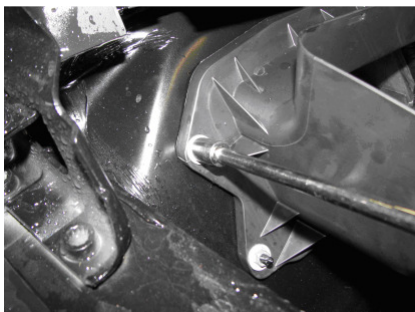
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Turn off the ignition. Disconnect and remove the serial control unit.



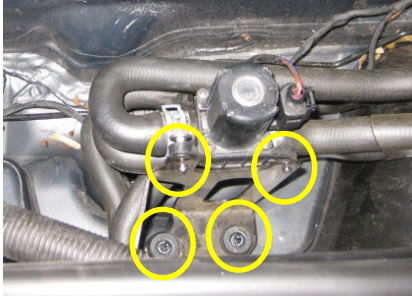
Disconnect the air quality sensor from the ventilation shaft. Remove the protective grid.



Remove the ventilation shaft.

4. Auxiliary heating

If the vehicle is equipped with an auxiliary heating system, the bracket of the valve has to be reprocessed.



Remove the bracket of the auxiliary heating valve. For this, unscrew the marked screws and nuts.



Rework the bracket as shown in the picture.

Important: The edges must be burred.

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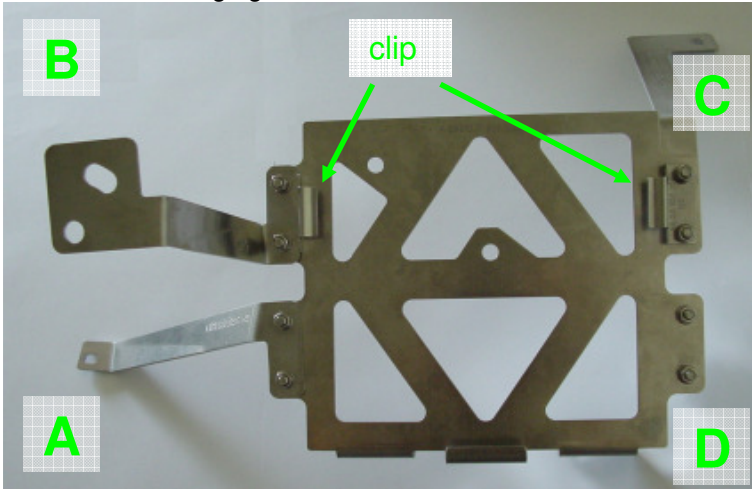


Assemble the bracket again, but **flipped over**. Reinstall the valve.

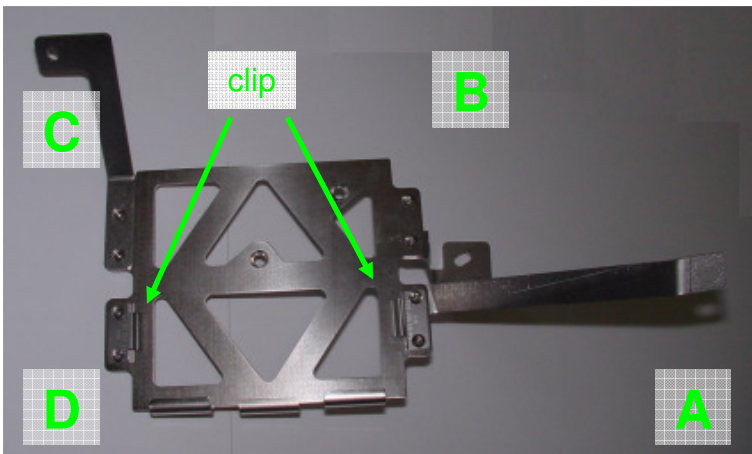
5. AEC assembly

5.1. Adapter plate

First of all, the mounting plate must be assembled. In doing so, take notice of the following figures.

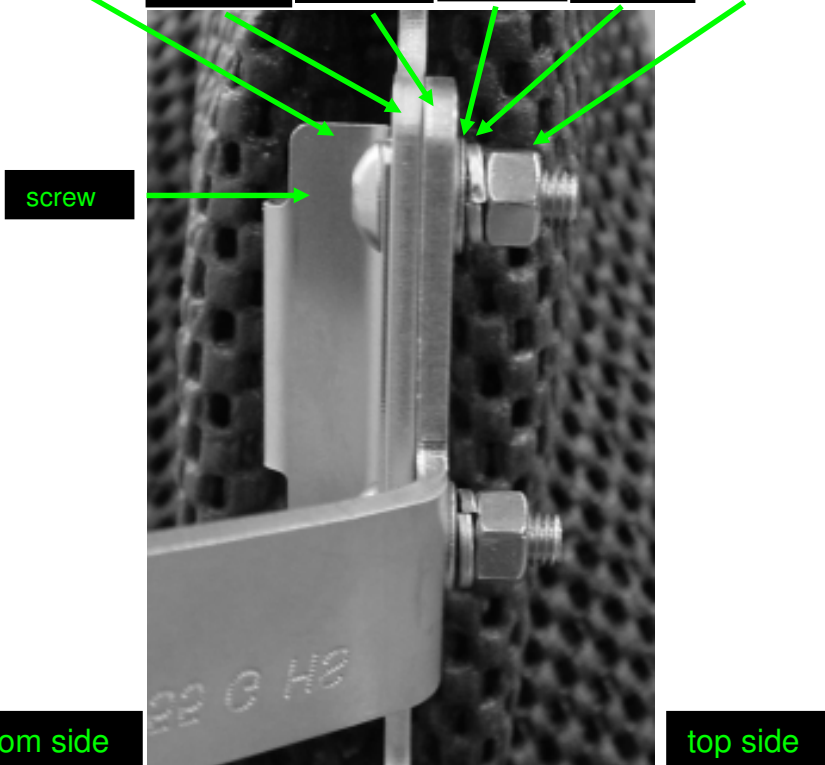


Top side: Labeling of the adapter plate



Bottom side: Positions of the countersinks

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5.2. Bracket A



Side view bracke A

Parts list bracket A:

- 2 Nuts
- 2 Spring rings
- Bracket A
- 2 Flat washers
- 1 Clip
- 2 Screws

Side view bracket B

bottom side

top side

screw

adapter
plate

flat
washer

clip

bracket
B

flat
washer

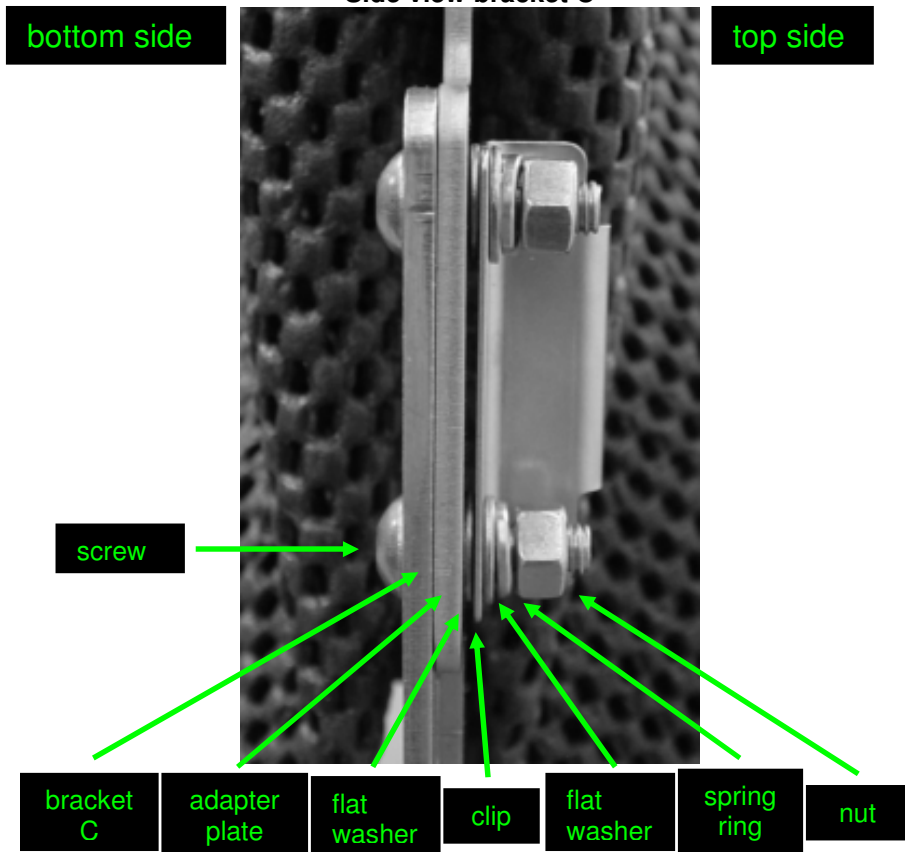
spring
ring

nut

Parts list bracket B:

- 2 Nuts
- 2 Spring rings
- Bracket B
- 4 Flat washers
- 1 Clip
- 2 Screws

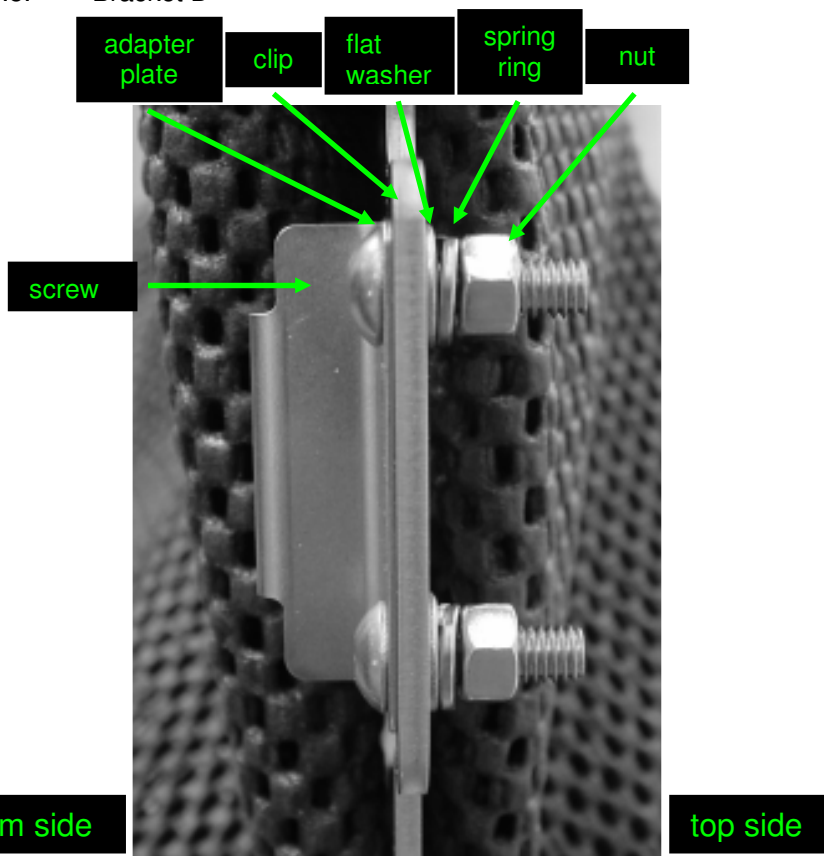
Side view bracket C



Parts list bracket C:

- 2 Nuts
- 2 Spring rings
- Bracket C
- 4 Flat washers
- 1 Clip
- 2 Screws

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5.5. Bracket D



Side view bracket D

Parts list bracket D:

- 2 Nuts
- 2 Spring rings
- 2 Flat washers
- 1 Clip
- 2 Screws

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5.6. AEC assembly



On the top side, insert the engine control unit into the clips.



On the bottom side, insert the AEC into the clips.
Tighten the screws.

6. AEC installation

Attach the brackets in the specified order

6.1. Bracket C



Bracket C is to be fixed at this point.



Attach bracket C with screw and large diameter washer M6.

6.2. Bracket B



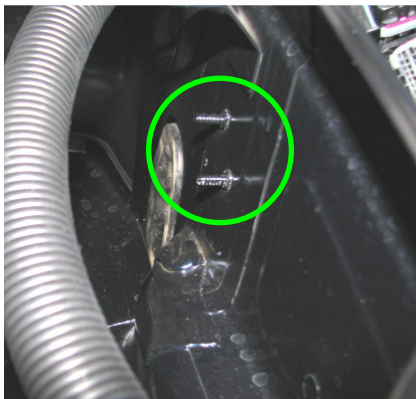
Bracket B is to be fixed at this point under the ventilation box.

Without figure: if the vehicle contains an alarm device, then mount bracket B on top of the bracket of the alarm horn.

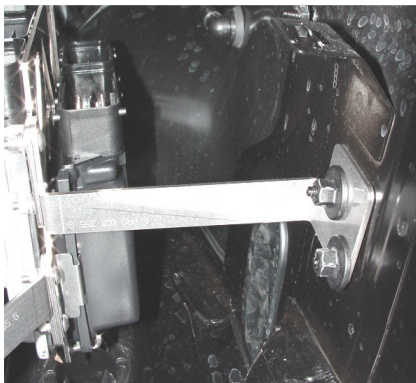


Attach bracket B with disc nut M6.

6.3. Bracket A

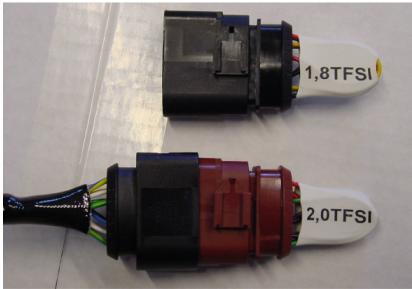


Bracket A is to be fixed at this point in the water tank.



Attach bracket A with plastic nuts.
Mount the corrugated tube with cable ties on the bracket.

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For 1.8 and 2.0 Otto-engine:
Depending on the engine type,
connect the right coded plug to
the Abt wiring harness.

The meaning of colors:

- 1.8: black
- 2.0: red-brown



Connect the ABT wiring harness
to the serial plugs in the electrical
box.



Reattach the cover.

Attention:

Do not pinch any cable!

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Connect both control units to the ABT wiring harness. Connect the AEC to the cables marked with 'AEC'.

Fasten the cable to suitable positions in the water tank by means of cable ties.



7. Completion

Reinstall all serial parts to the vehicle.

Read out the error memory and delete it if necessary.

Start the engine.

Take a test drive.

Attach the sticker "Abt Power" to the engine cover and the information sticker to the lock carrier.

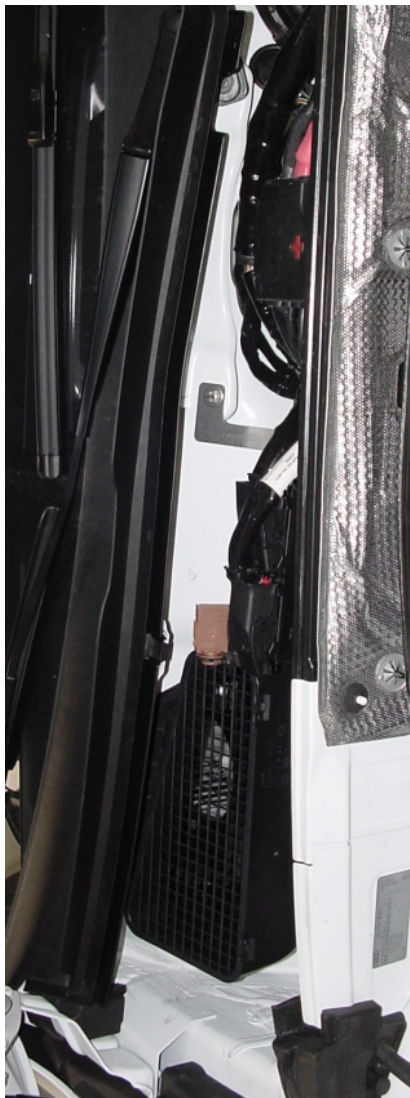
Only gasoline engines: Apply the '98 ROZ Super Plus' sticker in the fuel filler flap.

Hint:

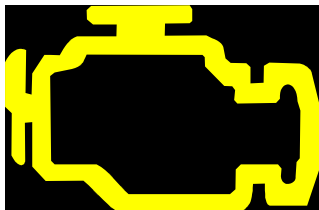
The AEC can be left built in for manufacturer service updates.
The communication with the tester is not affected by the AEC.

If the MIL-lamp and EPC-lamp is blinking by turns, there is an error in the ABT AEC. Then please contact ABT Sportsline.

8. Overall view



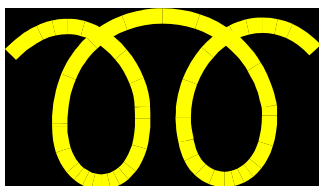
9. Warning lamps



Malfunction-Indicator-Lamp (MIL)



Electronic Power Control (EPC)



Control lamp "Preheat"

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