



Assembly instructions ABT AEC for PL72 Audi Q7

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1 Hints

Assembly instructions ABT AEC for PL72 Audi Q7

Vehicles: Audi Q7 CVMD

Assembly time: approx. 90 minutes

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.

In case of an error log entry:

- Please follow the manufacturer's instructions to resolve errors.
- After the rectification it is necessary to once again take a test drive of minimum 30 km.

Install the ABT AEC only into vehicles which are error-free at the time of installation.

2 Information about electrical consumption

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

The total power consumption determines how often a vehicle can be started without recharging the battery. Furthermore, it depends on the age and charging condition of the battery as well as on the outside temperature. For vehicles which are used 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 to replace the AEC with a bridge adapter. In doing so, an additional power consumption is prevented. Due to the adapter, the vehicle remains ready to start and is in its original state.


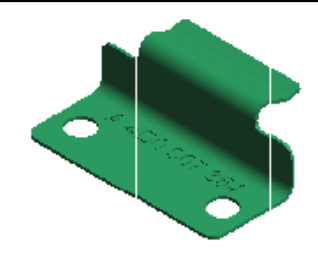
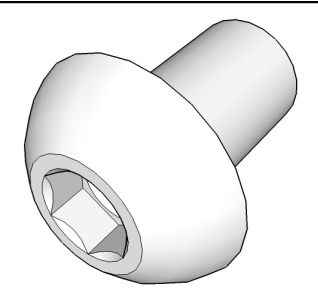
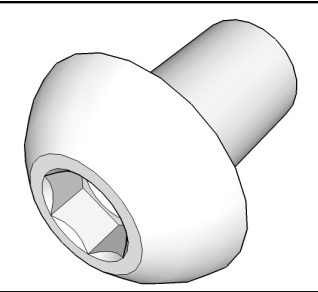

This bridge adapter can be purchased separately.





While staying abroad in areas where fuel quality is rather bad, we recommend to use the bridge adapter.

3 Scope of delivery

Please check the completeness of delivery before starting the installation. In case the delivery is incomplete, please contact ABT Sportsline GmbH.

| Quantity | Figure | Descripton |
|----------|---|-------------------------|
| 1 |  | ABT Engine Control |
| 1 |  | Wiring harness |
| 1 |  | "ABT Power" sticker |
| 1 |  | ABT information sticker |
| 1 |  | ABT service book |

| Quantity | Figure | Descripton |
|----------|---|-------------------------|
| 5 |  | cable tie |
| 2 |  | Retaining clip 12 mm |
| 2 |  | Lens head screw M5 x 6 |
| 2 |  | Lens head screw M5 x 16 |
| 1 |  | hexagon socket |

| Quantity | Figure | Description |
|----------|--|----------------|
| |  | Spring ring M8 |
| 1 |  | flat washer M8 |
| 4 |  | flat washer M5 |
| 1 |  | AEC bracket |

4 Preparations at the vehicle



Disconnect the original ecu from the original bracket.



Disconnect the 91-pole plug from the original ecu.



Connect the 91-pole plug from the AEC wiring harness with the original ecu. The cable can be moved under the holder of the original ecu. In addition the original holder must be removed first.



Disconnect the engine cover and the air cleaner housing.



Disconnect the 14-pole plug underneath the original ecu.



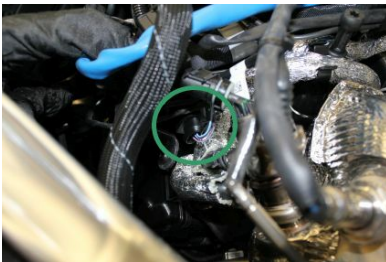
Connect the "intake air temperature" marked plug from the AEC wiring harness with the original socket from the sensor. Connect the socket from the AEC wiring harness with the plug from the sensor.



Move the AEC wiring harness in the left direction as you can see in the picture.



Overview from all sensors. The picture is from the Audi A4 with the same engine code.



Disconnect the plug from the fuel rail pressure sensor.



Connect the marked "fuel pressure sensor" plug of the AEC wiring harness with the sensor. Connect the socket from the AEC wiring harness with the plug from the original wiring harness.



Disconnect the plug from the boost pressure sensor.



Connect the marked "boost pressure sensor" plug of the AEC wiring harness with the sensor. Connect the socket from the AEC wiring harness with the plug from the original wiring harness.



Disconnect the plastic cover.
Underneath there are the rest of
the sensors.



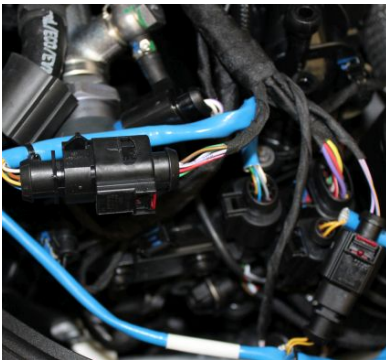
Disconnect the plug from the
exhaust gas temperature.



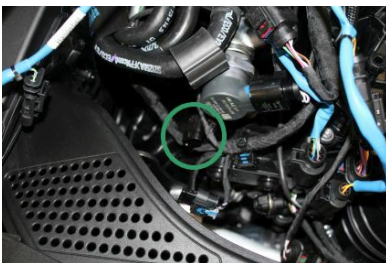
Connect the marked "exhaust
gas temperature" plug of the AEC
wiring harness with the sensor.
Connect the socket from the AEC
wiring harness with the plug from
the original wiring harness.



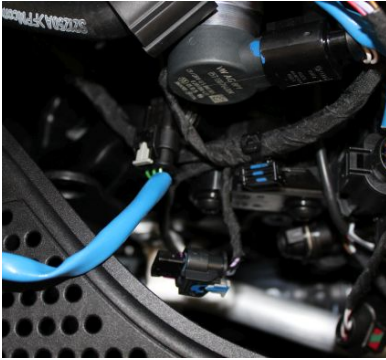
Disconnect the plug from the coolant temperature sensor.



Connect the marked "coolant temperature" plug of the AEC wiring harness with the sensor. Connect the socket from the AEC wiring harness with the plug from the original wiring harness.



Disconnect the plug from the speed sensor camshaft.

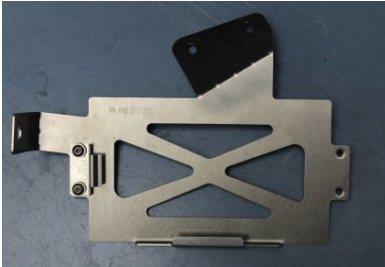


Connect the marked "speed sensor" plug of the AEC wiring harness with the sensor. Connect the socket from the AEC wiring harness with the plug from the original wiring harness.

5 AEC Assembly

(no figure)

The AEC holder is installed between the ABS unit and the engine.



Attach the retaining clip with the smaller screws, spring washers and washers on the left side of the aec holder.



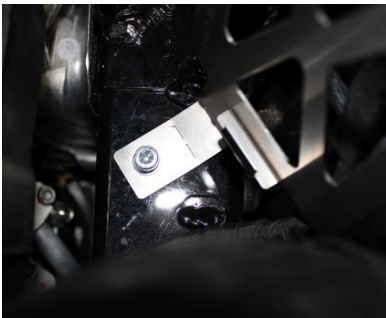
The AEC holder is attached to the marked points.



In the picture you see the bolts where the AEC holder will be attached.



Attach the AEC holder to the attachment points.



Fix the lower arm from the AEC bracket with the screw, washer and spring washer on the body of the car.



Fix the second arm with the two screw nuts on the body of the car.

6 AEC Installation



Connect the plugs marked with "AEC" to the AEC.



Slide the AEC from the top in the AEC holder. The AEC should click into the retaining clip on the bottom of the AEC bracket.



Attach the second retaining clip with the longer screws, washers and lock washers to the AEC bracket.



Connect the male multipoint connector from the AEC wiring harness with the plugs from the original wiring harness. Reinstall the air cleaner housing and the engine cover. Fix the plugs and the wiring harness with cable ties.

7 Completion

Read out the error memory and delete if necessary.

Start the engine and take a test drive.

Attach the sticker "ABT Power" to the engine cover and a sticker "ABT Information" on the lock carrier.

Only gasoline engines: Apply the sticker "98 ROZ Super Plus" 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 the EPC-lamp is blinking by turns, there is an error in the ABT AEC. Then please contact ABT Sportsline GmbH.

8 Overall view



9 Warning lamps



Malfunktion Indicator Lamp (MIL)



Electronic Power Control (EPC)



Control lamp "Preheat"

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