



# **Assembly instructions**

**ABT-AEC for MQB**

- Audi A3 / S3
- VW Golf VII
- Seat Leon
- Skoda Octavia
- VW Tiguan 5NA / VW Touran

Version: 2013-07-22

# Assembly Instructions

## ABT-AEC for MQB

Vehicle: Audi A3 / S3  
VW Golf VII  
Seat Leon  
Skoda Octavia  
VW Tiguan

Assembly time: approx. 45 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**

### **Important steps to take before assembling the ABT AEC**

If the ECU is not secured with a anti-theft protection, the following parts need to be backfitted:

- for diesel-engine, 1.8l and 2.0l petrol-engine: 5Q0 906 214 D
- for petrol-engine except 1.8l and 2.0l: 5Q0 906 214 E
- Attention: these part numbers can be replaced by different numbers
- for VW Tiguan 5QA 906 214

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:

- 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.

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



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## **1. Information about electrical consumption**




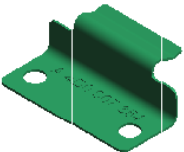

Power upgrades provided by an AEC increase the electrical consumption of a vehicle. An additional electric current flows. Besides this, the total current is depending on the car type, the additional equipment or similar. In particular cases, a considerable higher power consumption is possible. The total 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 only sporadically, it is generally recommended to recharge the battery periodically. Thus the battery's durability can be prolonged.


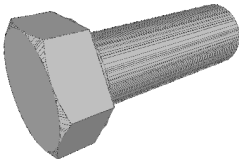




In case the vehicle is not in use for longer than one week, we recommend to replace the AEC with a bridge adapter. In doing so, an additional power consumption is prevented. Due to the adapter, the vehicle remains ready to start and is in its original state. This bridge adapter can be purchased separately. While staying abroad, in areas where fuel quality is rather bad, we recommend to use the bridge adapter.

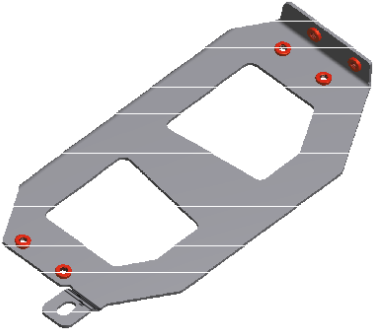

## 2. Scope of delivery

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

amount	picture	description
1		ABT Engine Control
1		Wiring harness
1		„ABT Power“ sticker
1		ABT information sticker

1	 <p>ABT SERVICEHEFT ABT Sportsline Gewährleistungsrichtlinien</p> <p>Bitte dem Original-Hersteller-Serviceheft beiliegen</p> <p>ABT</p>	ABT service book
1	 <p>98 ROZ/RON Super Plus bleifrei/ unleaded</p>	„98 ROZ Super Plus“ sticker (gas engine only)
5		Cable tie
2		Retaining clip 12 mm
4		Lens head screw M5 x 6

2		Lens head screw M5 x 16
1		Hexagon bolt M6 x 20
6		Spring ring M5
1		Spring ring M6
2		Washer M5
1		Washer M6

1	 A grey, irregularly shaped metal bracket with a large central cutout. It features six red circular markers indicating mounting points: two on the top edge, two on the left edge, and two on the right edge. A small tab with a hole is located at the bottom left.	AEC bracket
1	 A dark grey, rectangular metal bracket with a central cutout. It has a small hole on the right side and a larger hole on the left side.	Additional bracket

### 3. Preparations at the vehicle



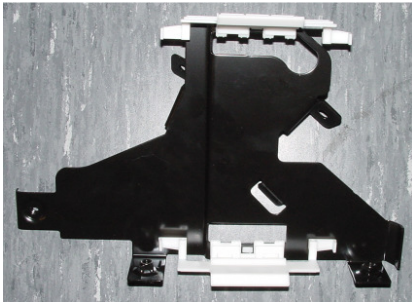
If the engine control is secured with an anti-theft device, it has to be removed.

If the vehicle does not have an anti-theft device, it has to be upgraded. See the following pictures.

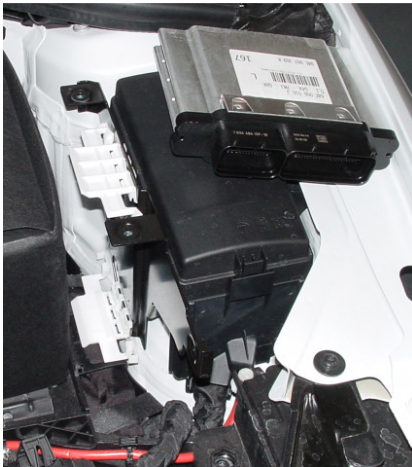


Diesel-engine and 1.8l petrol-engine and 2.0l petrol-engine: the serial bracket with the part number 5Q0 906 214 D has to be installed, if it is not present in the vehicle.

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Petrol-engine except 1.8l and 2.0l: the serial bracket with the part number 5Q0 906 214 E has to be installed, if it is not present in the vehicle.



Disassemble the engine control unit. Remove the wiring harness and the engine control unit.

For vehicles with 2.0 liter engine, the wiring harness is partially installed under the air filter box. Then the air filter box and the intake air duct have to be removed according to the instructions of the manufacturer.

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If a controller with NOX sensor is installed you have to remove the control unit with the holder.



Remove and trim the white marked position from the holder.

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Install the control unit and the holder in the car again.



#### 4. AEC bracket



Attach the AEC bracket with two spring rings M5, two washers M5 and the two screws M5 x 16 to the additional bracket. Don't tighten the screws, yet.

Attach the retaining clips with the remaining spring rings M5 and the screws M5 x 16.

## 5. Assembly AEC



Install the AEC bracket above the vehicle's battery. While installing keep an eye on the correct positions on the marked points.



The additional bracket will be placed in the inside of the existing clip of the battery holder. There is no extra screw used.

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Attach the AEC bracket with the ECU bracket on the marked point. For this use the screw M6 x 20, washer M6 and the spring ring M6.



Fit the additional bracket and tighten all screws. The holder should be fixed. Watch for enough space to the brake fluid reservoir.



Attach the AEC in the bracket and tighten the screws.

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Connect the male multipoint connector from the AEC to the serial plugs of the car.



Connect the unmarked plugs to the engine control unit. Place the original ECU in the bracket. Ensure a tight fit.

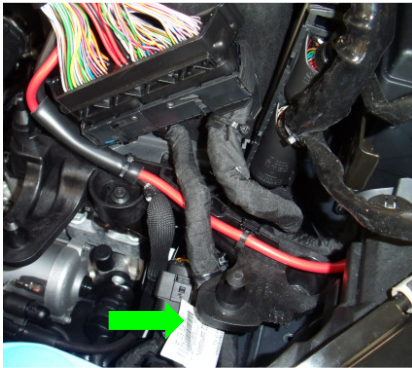
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Connect the plugs marked with „AEC” to the AEC.



If the air filter box has been removed, then route the wiring harness of the vehicle under the attachment point of the air filter box (see arrow).



Put the wiring harness near the battery and fix it with four cable ties.  
Reinstall the air filter box and the intake air duct to the vehicle according to the instructions of the manufacturer.





## 6. Completion

Read out the error memory and delete it if necessary.

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:**

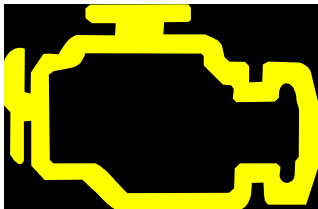
The AEC can be left built in for manufacturer service updates. The communication with the tester is not affected by the AEC.

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

## 7. Overall view



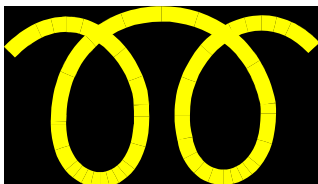
## 8. Warning lamps



Malfunktion Indicator Lamp (MIL)



Electronic Power Control (EPC)



Control lamp „Preheat“

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