



# **Mounting instruction for ABT AEC MLB Audi RS5**

# Table of contents

<b>1 Hints .....</b>	<b>3</b>
<b>2 Information about electrical consumption .....</b>	<b>4</b>
<b>3 Scope of delivery.....</b>	<b>5</b>
<b>4 Preparations at the vehicle.....</b>	<b>9</b>
<b>5 AEC Assembly.....</b>	<b>15</b>
<b>6 AEC Installation.....</b>	<b>16</b>
<b>7 Completion.....</b>	<b>18</b>
<b>8 Overall view .....</b>	<b>19</b>
<b>9 Warning lamps .....</b>	<b>20</b>

## 1 Hints

### Mounting instruction for ABT AEC MLB Audi RS5

Vehicles: Audi RS5 2,9 TFSI

Assembly time: approx. 60 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.



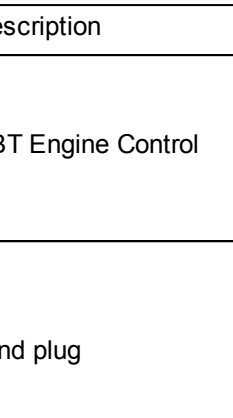

In case the vehicle is not in use for longer than one week, we recommend to replace the AEC with a bridge adapter. In doing so, an additional power consumption is prevented. Due to the adapter, the vehicle remains ready to start and is in its original state.





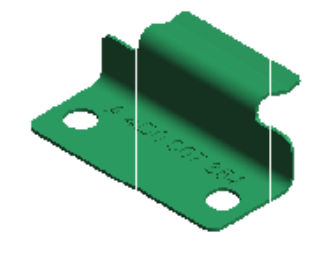
This bridge adapter can be purchased separately.

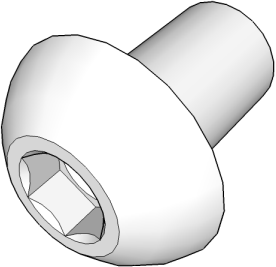



While staying abroad in areas where fuel quality is rather bad, we recommend to use the bridge adapter.

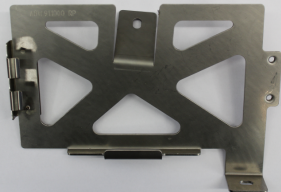
### 3 Scope of delivery

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

Quantity	Picture	Description
1		ABT Engine Control
1		blind plug
1		Wiring harness
1		"ABT Power" sticker

Quantity	Picture	Description
1		"ABT Information" sticker
1		ABT service book
1		"98 ROZ Super Plus" sticker (only gasoline engines)
14		Cable tie
1		Retaining clip 12 mm

Quantity	Picture	Description
2		Lens head screw M5 x 6
1		Plastic washer nut
2		Spring ring M5
2		Washer M5

Quantity	Picture	Description
1	 A black metal AEC bracket with a central cross-shaped cutout and mounting points.	AEC bracket

## 4 Preparations at the vehicle

(Keine Abbildung)

Wasserkastenabdeckung nach Herstellervorgaben ausbauen.  
Disconnect the coverage for the water box.



Übersicht aller Sensoren und Stromversorgung. AEC-Kabelbaum an Serienkabelstrangführung mit Kabelbinder befestigen.

Overview of all sensors and the electrical power supply. Connect the AEC wiring harness to the standard cable harness guide with cable ties

1 - Ladedrucksensor  
boost pressure sensor

2 - Schaltplus  
switched power

3 - Hallgeber  
speed sensor camshaft

4 - Saugrohrdrucksensor  
manifold pressure sensor

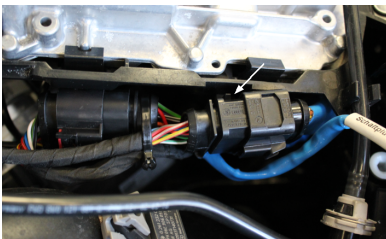
5 - Versorgung  
power supply



1 - Ladedrucksensor  
boost pressure sensor

Den mit "Ladedruck 1"  
gekennzeichneten Stecker mit  
der Serienbuchse verbinden, und  
die Buchse mit den  
Serienstecker verbinden.  
Zusätzliche Steckverbindung mit  
einem Kabelbinder befestigen.

Connect the marked  
"Ladedrucksensor 1" plug of the  
AEC wiring harness with the  
sensor. Connect the female  
connector from the AEC wiring  
harness with the plug from the  
original wiring harness. Fix the  
cable with a cable tie.

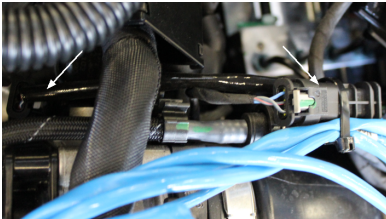


2 - Schaltplus  
switched power

Serienstecker vorsichtig aus der  
Führung (Pfeil) montieren.  
Verbindung trennen, den mit  
"Schaltplus" gekennzeichneten  
Stecker mit der Serienbuchse  
verbinden, und die Buchse mit  
den Serienstecker verbinden.  
Zusätzliche Steckverbindung mit

einem Kabelbinder befestigen.

Carefully mount the plug from the guide (arrow). Disconnect the plug from the switched power supply. Connect the marked "Switched power" plug of the AEC wiring harness with the sensor. Connect the female connector from the AEC wiring harness with the plug from the original wiring harness. Fix the cable with a cable tie.

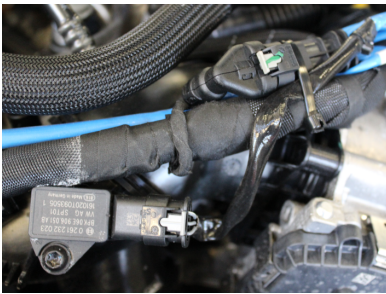


3 - Hallgeber  
speed sensor camshaft

Den mit "Nockenwelle" gekennzeichneten Stecker mit der Serienbuchse verbinden, und die Buchse mit den Serienstecker verbinden. Zusätzliche Steckverbindung mit einem Kabelbinder befestigen.

Connect the marked "Nockenwelle" plug of the AEC wiring harness with the sensor.

Connect the female connector from the AEC wiring harness with the plug from the original wiring harness. Fix the cable with a cable tie.



4 - Saugrohrdrucksensor  
manifold pressure sensor

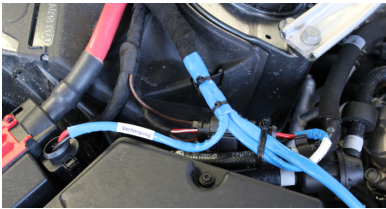
Den mit "Saugrohr 1"  
gekennzeichneten Stecker mit  
der Serienbuchse verbinden, und  
die Buchse mit den  
Serienstecker verbinden.  
Zusätzliche Steckverbindung mit  
einem Kabelbinder befestigen.

Connect the marked "Saugrohr 1"  
plug of the AEC wiring harness  
with the sensor. Connect the  
female connector from the AEC  
wiring harness with the plug from  
the original wiring harness. Fix  
the cable with a cable tie.



aktuelle Gesamtansicht

overall view



5 - Versorgung

power supply

Den mit "Versorgung" gekennzeichneten Stecker mit der Serienbuchse verbinden, und die Buchse mit den Serienstecker verbinden. Zusätzliche Steckverbindung mit einem Kabelbinder befestigen.

Connect the marked "Versorgung" plug of the AEC wiring harness with the sensor. Connect the female connector from the AEC wiring harness with the plug from the original wiring harness. Fix the cable with a cable tie.



Führungsleiste ausclipsen (Pfeil) und Kabelbaum durch die Führung für den Serienmotorkabelbaum verlegen.

Disconnect the guide strip (Arrow) and place the wiring harness through the conduct.



## 5 AEC Assembly



Luftgütesensor aus Halterung entfernen und die markierte Mutter abschrauben. Hier wird der AEC Halter montiert.

Take the air quality sensor out of the holder and screw off the marked nut. The AEC bracket gets mounted here.



Den AEC Halter mit der Kunststoffbundmutter und der vorher entfernten Mutter an den zwei Befestigungspunkten befestigen. Luftgütesensor montieren.

Fix the AEC bracket with the plastic washer nut and the previously removed nut on the two anchorage points. The air quality sensor gets mounted here.

## 6 AEC Installation



Das AEC mit der mitgelieferten Halteklammer, Beilagscheiben, Federringen und Schrauben an dem AEC Halter befestigen.

Fix the AEC with the supplied retaining clip, washer, spring ring and screws at the AEC bracket.

**Hinweis:** Falls eine Hupe verbaut ist, bitte ausbauen und passend mit Kabelbindern befestigen. Das AEC kann auch vor Einbau des Halters an dem Halter befestigt werden.

Hint: If a horn is installed, please remove and fix it with the cable ties. The AEC can be fixed at the bracket before it gets mounted.



Den mit "AEC" markierten Stecker des AEC Kabelbaums und der Blindstecker mit dem AEC verbinden.

Connect the plug of the AEC harness that is marked with the "AEC" and the blind plug to the

AEC.



AEC Kabelbaum und die  
Messerleiste mit Kabelbinder  
fixieren.  
Wasserkastenabdeckung  
einbauen.

Alle Serienteile nach  
Herstellerangaben montieren.

Fix the AEC wiring harness and  
the multipole connector with the  
cable tie. Install the water box  
cover.

Mount all standard parts  
according to manufacturer's  
instructions.

## 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 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"

ABT Sportsline GmbH

Johann-Abt-Str. 2

D-87437 Kempten / Allgäu

Phone: +49 (0)831 / 57140 - 0

Fax: +49 (0)831 / 72666

Email: [info@abt-sportsline.de](mailto:info@abt-sportsline.de)

[www.abt-sportsline.de](http://www.abt-sportsline.de)