



Assembly instructions

ABT-AEC for MQB

- VW Sharan
- VW Tiguan
- Audi Q3
- Seat Alhambra

Version: 05/07/2012

Assembly Instructions

ABT-AEC for MQB

Vehicle: VW Sharan
VW Tiguan
Audi Q3
Seat Alhambra

Assembly time: approx. 60 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

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.

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.




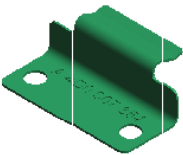


While staying abroad, in areas where fuel quality is rather bad, we recommend to use the bridge adapter.

2. Scope of delivery


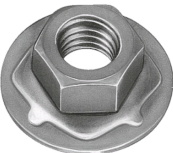


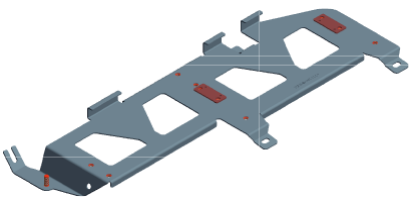

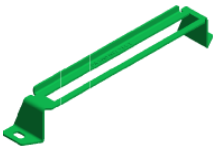
Please check if delivery is complete before starting the installation. In case the delivery is incomplete, please contact our service team at ABT Sportsline.

Quantity	Figure	Description
1	 A black, rectangular electronic control unit with two multi-pin connectors on the front and a label on top.	ABT Engine Control
1	 A bundle of black and blue wires with various connectors, including a multi-pin connector and a smaller connector.	Wiring harness
1	 A black rectangular sticker with the word "ABT" in white and "POWER" in red.	"ABT Power" sticker
1	 A yellow rectangular sticker with the ABT logo and German text: "WICHTIGE INFORMATION Dieses Fahrzeug hat eine Leistungssteigerung der Fa. ABT Sportsline GmbH. Bitte beachten Sie vor Reparaturbeginn die dem ABT Service Heft beiliegenden Informationen und setzen Sie sich umgehend mit dem Technischen Kundenservice der ABT Sportsline GmbH in Verbindung: Telefon +49 (0) 831/5 71 40 - 28/-30".	ABT information sticker

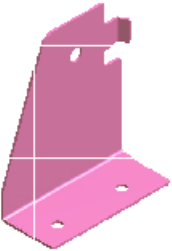
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1		ABT service book
1		"98 ROZ Super Plus" sticker (gas engine only)
5		Cable tie
4		Retaining clip 12 mm
10		Lens head screw M5 x 6
12		Spring ring M5

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2		Screw nut M5
3		Screw nut with corrugated disc M6
1		Spring ring M8
1		Screw nut M8
1		Base plate
1		Bail 1
1		Bail 2

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1		Alarm system bracket (depends on car equipment)
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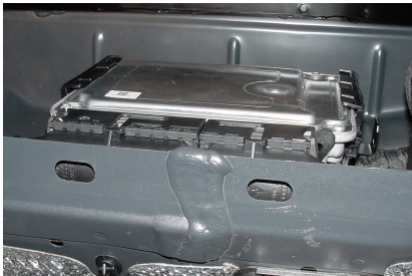
3. Preparations at the vehicle

(without figure)

Turn off the ignition, pull out the ignition key.

(without figure)

Remove windscreen wiper, stiffener wall and wiper motor as described in the repair guide.



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

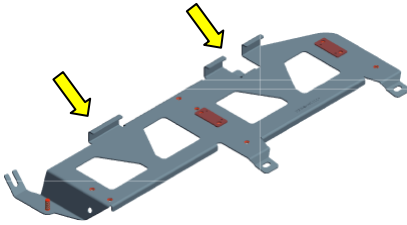


Disassemble the bracket of the engine control unit. Therefore, loosen both front nuts (are needed to assemble the AEC bracket) and slide out the bracket forwardly upward.

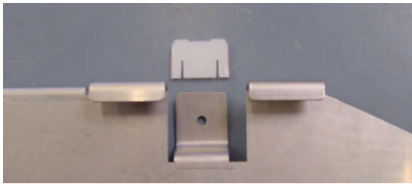


Uncover the ground pin left of the engine control unit bracket. This hold point is needed for fixing the AEC.

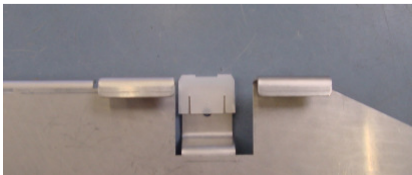
4. AEC assembly



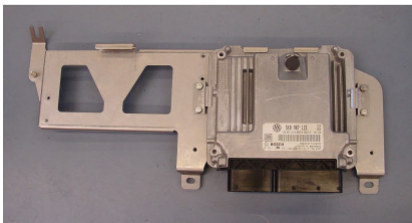
Prepare the base plate. The rear arresters (see arrows) help to fix the units in correct position.



Remove the plastic tip from the bracket of the original engine control unit. Then assemble the plastic tip on the base plate.



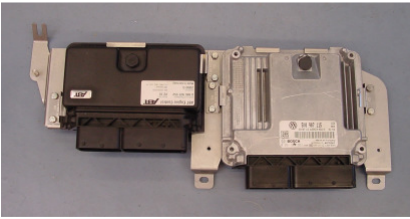
This figure shows the assembled plastic tip.



Attach the engine control unit to the base plate. Use 2 retaining clips, 4 spring rings M5 and 4 lens head screws M5 x 6.

Fix the engine control unit on the right side of the base plate. Mount the retaining clips on the increasing. The increasing is marked red in the drawing above.

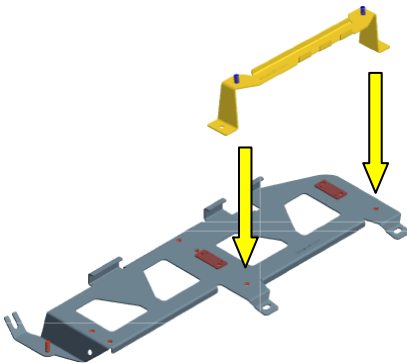
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Attach the AEC to the base plate.
Use 2 retaining clips, 4 spring rings M5 and 4 lens head screws M5 x 6.
Fix the AEC on the left side of the ground plate.

Do the following two steps **only** for these vehicles:

- VW Sharan
- Audi Q3
- Seat Alhambra

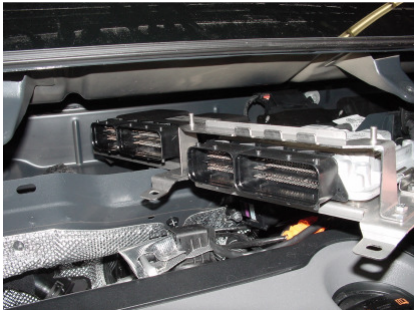


Assemble bail 1 by means of 2 screws and 2 spring rings on the base plate. Take care that the 3 detents face forward.

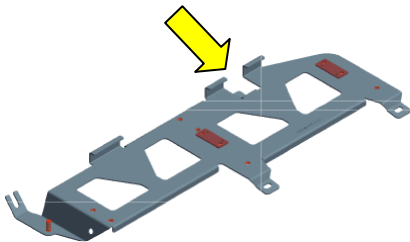


This figure shows the current assembling

5. AEC installation



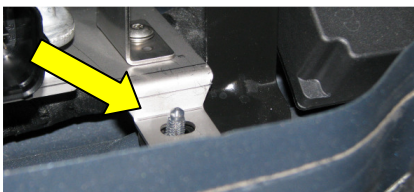
Attach the base plate in its momentary structure to the point where the bracket of the engine control unit was assembled. Bring the base plate, AEC in front, into position.



Insert the rear detent (see arrow) into the lug at the vehicle.

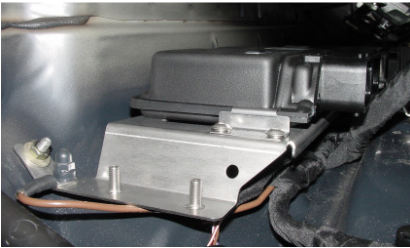


To fix the base plate use the two nuts from the bracket of the original engine control unit. Keep the right tightening torque in mind.

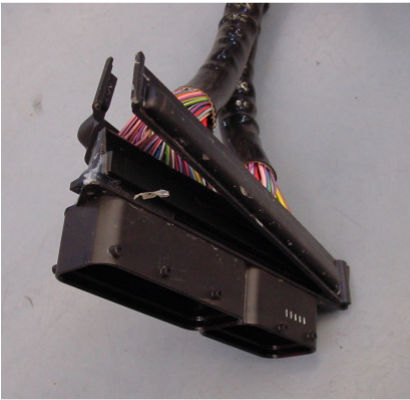


Some vehicles are equipped with an additional bracket at the left side (in direction of travel). If so, screw the foot of the AEC bracket above the other one.

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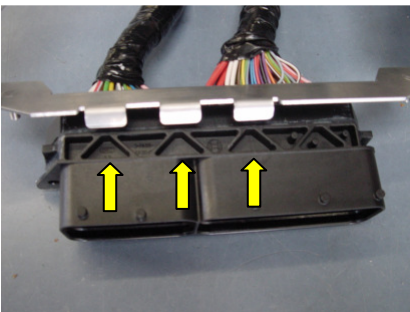
Now assemble the bracket to the before uncovered ground pin. Use the nut with corrugated screw M6. Attach the cable directly to the bracket with the original nut. Use the bolt left on the bracket.



If the plastic cover on the male multipoint connector is available, remove it carefully by means of a screwdriver.

Do the following six steps **only** for these vehicles:

- VW Sharan
- Audi Q3
- Seat Alhambra

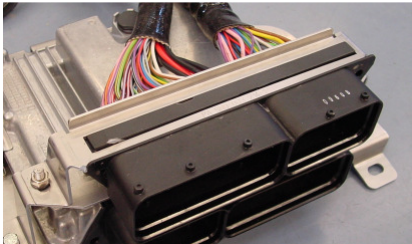


Attach now the AEC wiring harness to bail 1. As shown in the figure, connect detents and bail 1 (the figure shows the view from below).

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Fix the male multipoint connector of the AEC wiring harness at bail 1 by means of bail 2 and 2 nuts M5 and 2 spring rings M5.



The cut-out of bail 2 has to fit in the multipoint connector as shown in the picture.

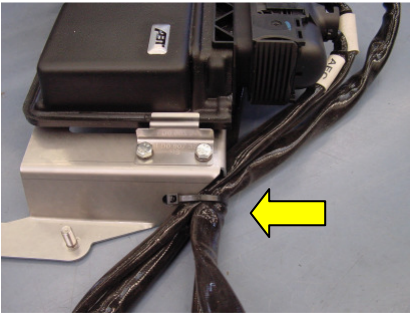


Connect the plug of the AEC wiring harness according to the labeling of the wire harness. First connect the ends of the AEC wiring harness marked with 'AEC' to the AEC. Then connect the free ends of the engine control unit.



Connect the plug of the original wiring harness to the male multipoint connector.

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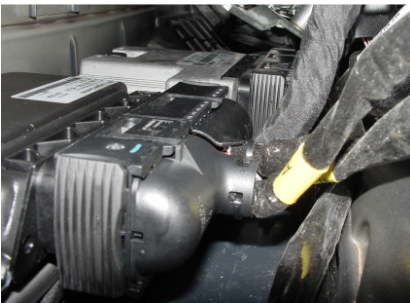
Attach both cables connected to the AEC to the ground plate by means of a cable tie. Use the eye of the plate to fix the cable tie.

Do the following five steps **only** for this vehicles:

- VW Tiguan



Connect the AEC wire harness to the engine control unit.

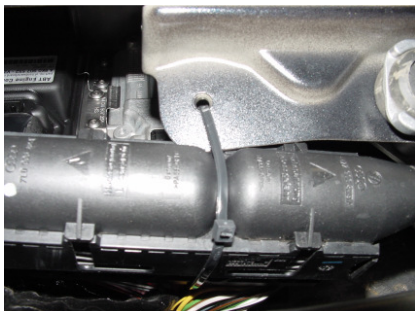


Connect the AEC wire harness to the AEC.

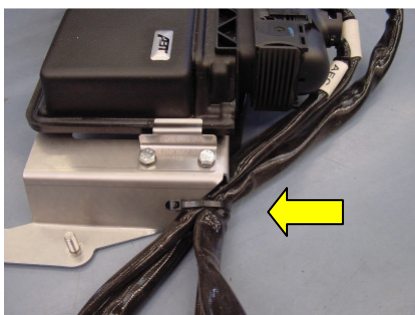


Connect the plugs of the vehicle wire harness to AEC wire harness

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Attach the male multipoint connector to the wiper mounting by means of a cable tie.



Attach both cables connected to the AEC to the ground plate by means of a cable tie. Use the eye of the plate to fix the cable tie.

6. Alarm system installation (optional)



Some vehicles have an alarm system installed. Mount the additional bracket for the alarm horn with two screw nuts with corrugated disc M6. Then attach the alarm horn with the nut M8 and the spring ring M8 to the bracket. Reconnect the alarm horn.

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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, an error correction is necessary in the ABT AEC. Then please contact ABT Sportsline.

8. Overall view

(only VW Sharan, Audi Q3, Seat Alhambra)

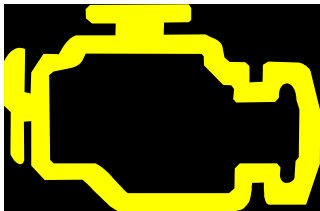


(View from the right)



(View from the left)

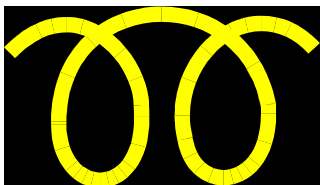
9. Warning lamps



Malfunction-Indicator-Lamp (MIL)



Electronic Power Control (EPC)



Control lamp "Preheat"

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