



# **Assembly Instructions**

ABT AEC for platform PL 48  
 $V_{\max}$  abolition

- Audi RS4, RS5



## Assembly Instructions for

### ABT-AEC for PL 48 V<sub>max</sub> abolition

Car model: Audi RS4, RS5

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.



## **TABLE OF CONTENTS**

|           |  |           |
|-----------|--|-----------|
| <b>1.</b> | <b>INFORMATION ABOUT ELECTRICAL CONSUMPTION.....</b> | <b>4</b>  |
| <b>2.</b> | <b>SCOPE OF DELIVERY .....</b>                       | <b>5</b>  |
| <b>3.</b> | <b>PREPARATIONS AT THE VEHICLE .....</b>             | <b>7</b>  |
| <b>4.</b> | <b>ASSEMBLY OF AEC .....</b>                         | <b>11</b> |
| <b>5.</b> | <b>INSTALLATION OF AEC .....</b>                     | <b>17</b> |
| <b>6.</b> | <b>WATER TANK COVER.....</b>                         | <b>21</b> |
| <b>7.</b> | <b>COMPLETION.....</b>                               | <b>22</b> |
| <b>8.</b> | <b>OVERALL VIEW .....</b>                            | <b>23</b> |
| <b>9.</b> | <b>WARNING LAMPS .....</b>                           | <b>24</b> |



## **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.

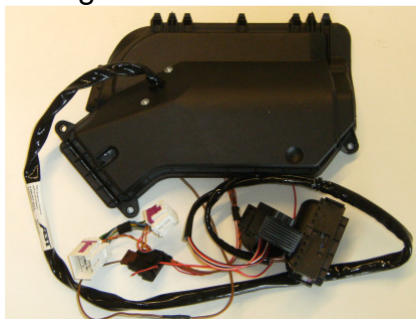
## 2. Scope of delivery

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



Assembly Instructions  
ABT-AEC  
PL 48

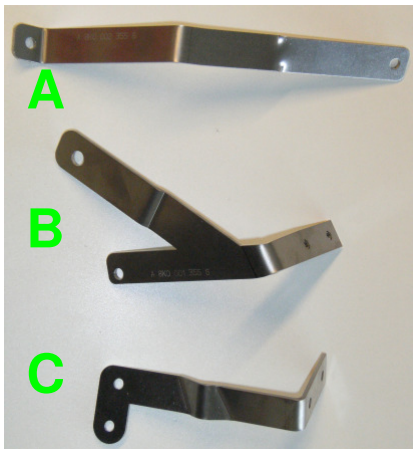
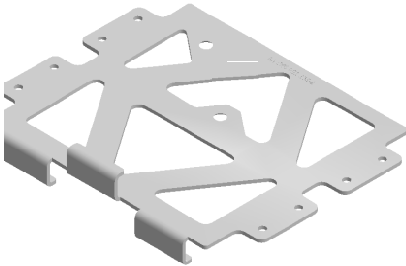


Bracket and Accessories Set

consisting of:



- ABT information sticker
- ABT service book
- 2 Retaining clips
- 2 Countersunk head screws M6
- 8 Fillister head screws M5
- Hexagon bolt M6
- 2 Nuts M6
- 8 Nuts M5
- 2 Spring rings M6
- 8 Spring rings M5
- Large diameter washer M6
- 8 Flat washers M5
- Plastic washer nut
- 2 Screw nuts with corrugated disc
- 5 Cable ties (without figure)
- Adapter plate
- Bracket
  - A
  - B
  - C



### 3. Preparations at the vehicle



Remove the water tank cover.



Remove the splash water tank.



Remove the electrical box cover.

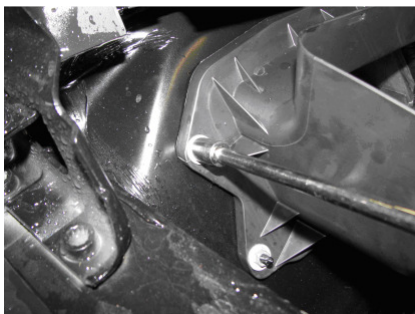
Assembly Instructions  
ABT-AEC  
PL 48



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



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

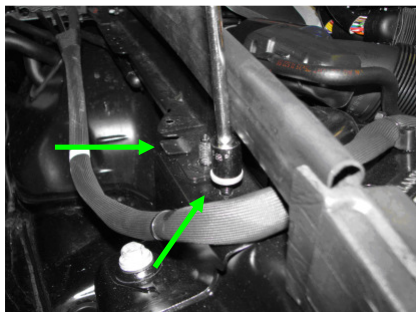


Remove the ventilation shaft.

Assembly Instructions  
ABT-AEC  
PL 48



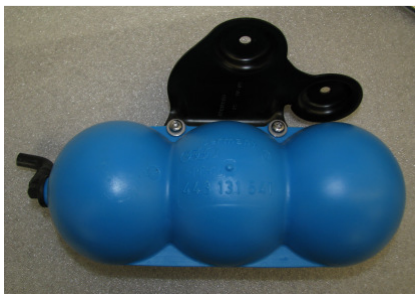
Unscrew the alarm system horn from the chassis. The horn can remain connected.



Unscrew the marked nut.  
Bend the marked guide lug.



To remove the vacuum container, detach the hose and loosen the bracket from the chassis.



Unscrew the vacuum container bracket.

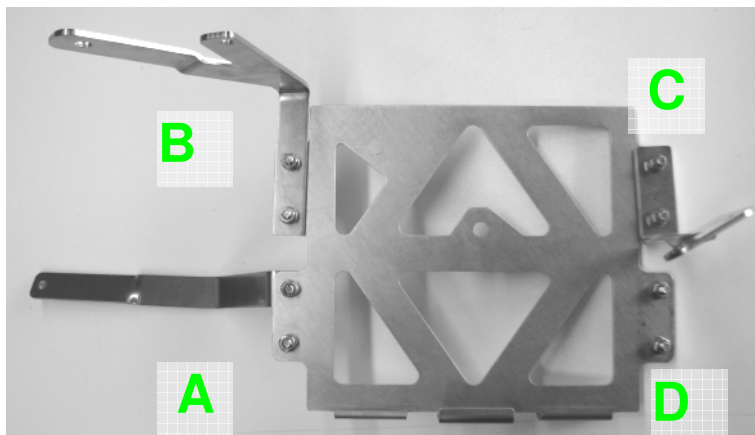


Unhinge the shown cable retainer.

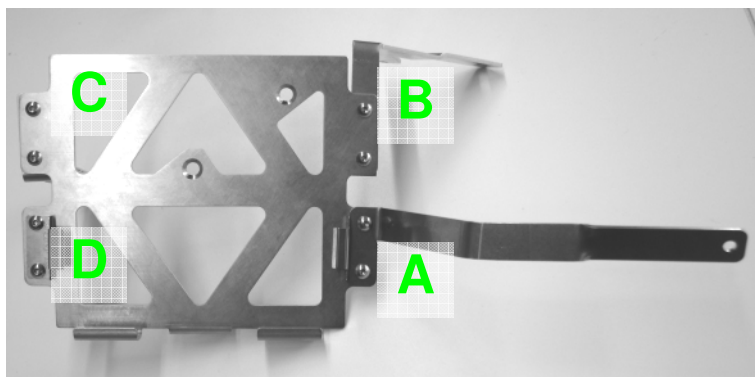
## 4. Assembly of AEC

### 4.1. Adapter plate

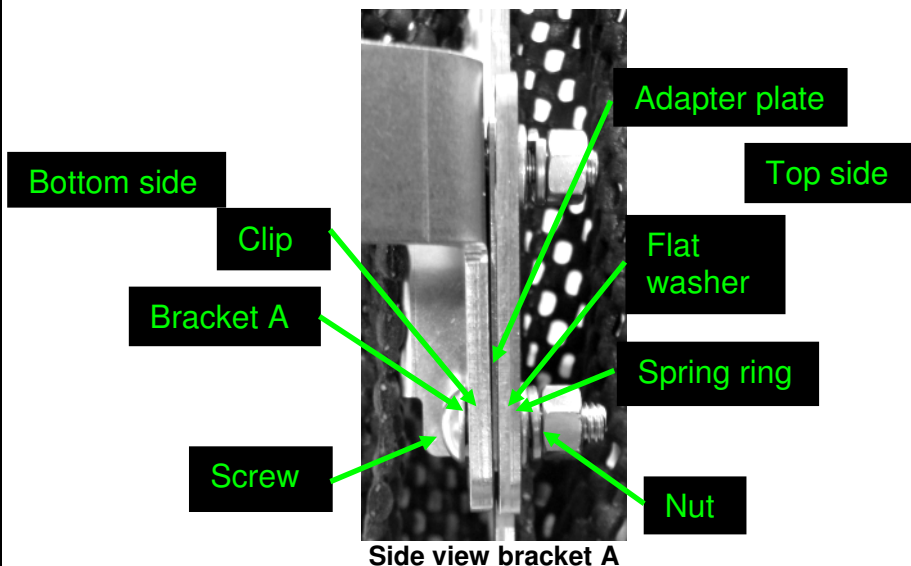
First of all, the AEC adapter plate must be assembled. In doing so, regard the following figures.



**Top side: Labeling of the adapter plate**

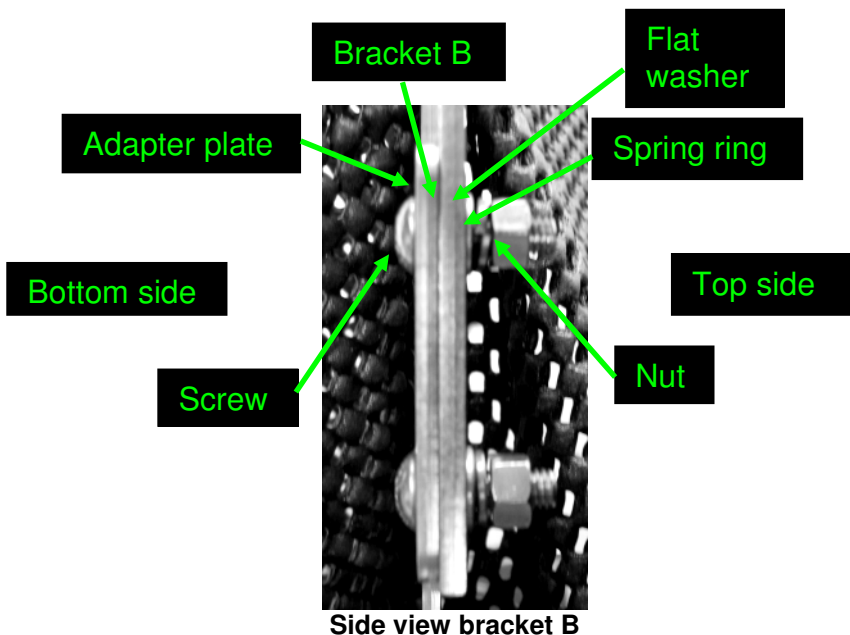


**Bottom side: Here are the countersinks.**



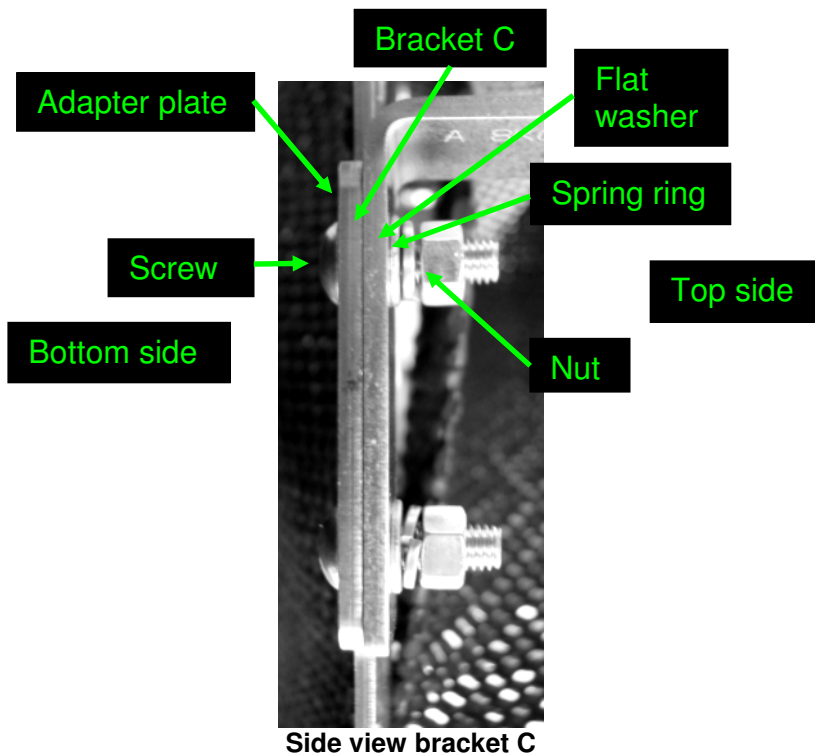
Parts list bracket A:

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



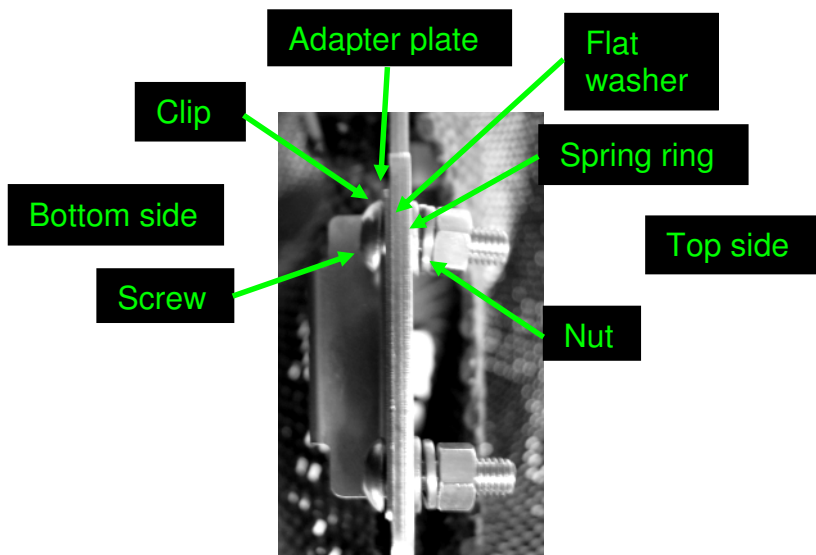
Parts list bracket B:

- 2 Nuts
- 2 spring rings
- Bracket B
- 2 flat washers
- 2 Screws



Parts list bracket C:

- 2 Nuts
- 2 Spring rings
- Bracket C
- 2 Flat washers
- 2 Screws



Side view bracket D

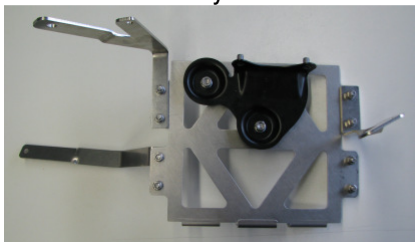
Parts list bracket D:

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

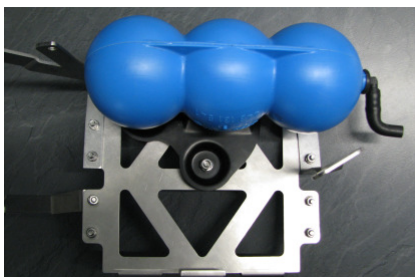
Assembly Instructions  
ABT-AEC  
PL 48



4.6. Assembly of AEC



Attach the bracket of the vacuum container to the adapter plate by means of countersunk screws, spring rings and nuts M6.



Screw the vacuum container to the adapter plate.



Insert the AEC into the clips and tighten the screws.

## 5. Installation of AEC



Loosen the white plug-in connection in the electrical box.

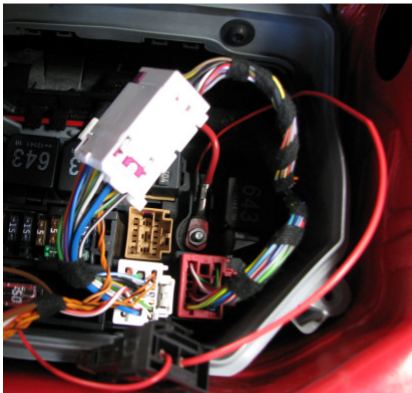


Unscrew the marked permanent positive cable.

**Attention:**

Do not touch metal parts with tools!

In case of doubt disconnect the battery!



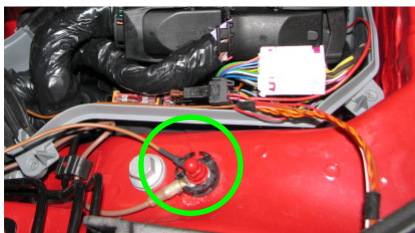
Connect both white plugs of the Abt wiring harness. Reattach and reconnect the positive cable of the Abt wiring harness to the permanent positive clip.

Assembly Instructions  
ABT-AEC  
PL 48



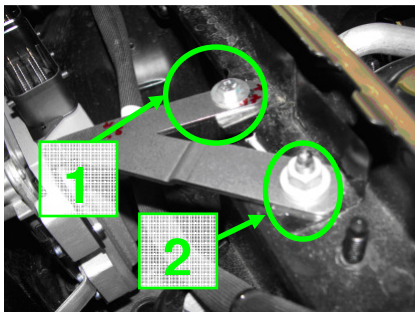
Reinsert and reconnect the engine control unit. Reattach the cover.

**Attention:**  
Do not pinch any cable!



Connect the brown mass cable of the Abt wiring harness to the marked ground pin.

**Attention:** Mount the brackets in the shown order!



Fasten bracket B to both bolt and bore hole in the water tank.

Marking 1: Use screw, large diameter washer and disc nut M6.  
Marking 2: Use serial nut.

Assembly Instructions  
ABT-AEC  
PL 48



Attach bracket C to the water tank. Use the plastic washer nut. In order to facilitate the overview, we have left out the vacuum accumulator in this figure.

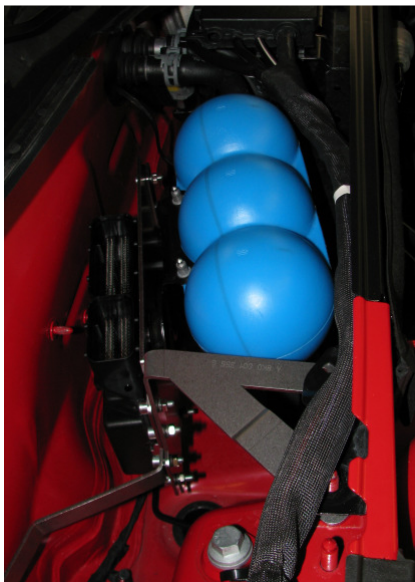


Fasten bracket A to the bolt under the ventilation box. Reinstall the horn of the alarm system.

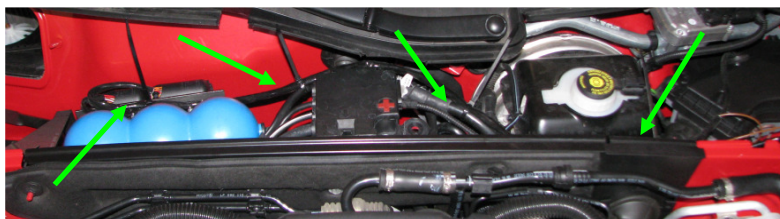
Assembly Instructions  
ABT-AEC  
PL 48



Reconnect the vacuum container  
to the vacuum hose.

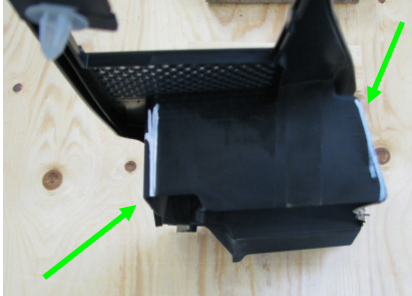


Connect the AEC. Run all wires as shown in the figure and fix it with  
cable ties. Tie excessive wire length to the AEC.



## 6. Water tank cover

The water tank cover must be processed as follows.



Make cuts at the points shown by means of an appropriate saw (air saw).



Cut the marked areas out of the cover.



Deburr all cut edges; fold away the right part. During assembly, pay attention that the cover does not touch the vacuum container; rework it if necessary.



## 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 information sticker to the lock carrier.

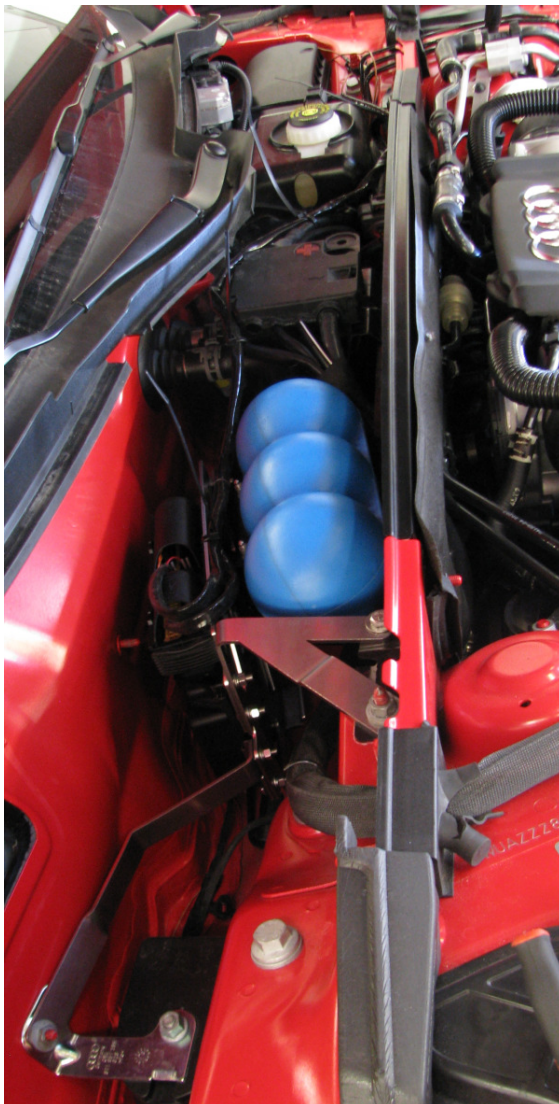
### **Hint:**

The AEC can be left built in for manufacturer service updates.

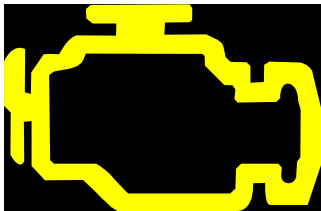
The communication with the tester is not affected by the AEC.

**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)

Assembly Instructions  
ABT-AEC  
PL 48



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