

VOLKSWAGEN AG

Module-Balancer VAS 6910

Unpacking Instructions

V13.00 05/20

Start-up

Brief instructions

Please read carefully!

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Volkswagen type no. 447 230 00 000 AVL DiTEST ID-Nr. AT7783EN Rev. 13

Safety Instructions

Explanation of symbols

Symbols with the following meanings are used in the safety instructions of the operating manuals, unpacking, start-up and brief instructions or other documentation provided, in screen displays on the tester during operation and on the products themselves:



DANGER

Texts with this symbol contain information relating to your safety and how you can reduce the risk of serious or fatal injuries.



WARNING

Texts with this symbol contain information relating to your safety and how you can reduce the risk of serious injuries.



CAUTION

Texts with this symbol contain information on how you can avoid damage to the vehicle and the device.

Additional danger signal:



Danger due to electrical current.

Remarks:

NOTICE

Text with this symbol contains additional, useful information.

Information

This text indicates important information or instructions. Failure to comply with these instructions prevents or significantly hampers a successful finalization of the operations described in this documentation.

IMPORTANT SAFETY INSTRUCTIONS

**WARNING**

Read all instructions.

**WARNING**

Requirements needed to operate this device:

- High-voltage technician (HVT)
- High-voltage expert (HVE)
- Electrically qualified person for high-voltage systems in vehicles
- Electrician for special tasks on high-voltage systems in vehicles.

If you don't have any of these qualifications please do not use this device and exit the application immediately!

**WARNING****Danger of flashing arcs**

Never disconnect wirings while charging or discharging.

Opening the cover stops charging / discharging immediately!

**WARNING**

Use only the referenced accessories from AVL DiTEST!

**WARNING**

Use the included mains cord set (power cord)!

If the mains cord set has to be changed note the following requirements strictly!

On 240 V mains grid the mains cord set must be designed for a continuous current of 10 A, on 120V mains grid the mains cord set must be designed for a continuous current of 20 A. The mains cord set must have a C19 plug for the connection to the VAS6910 suitable for the above current ratings.

Connect VAS 6910 only to protective contact sockets!

Set up the VAS 6910 in a way that there is always free access to the power separator!
(Power cord from the mains socket).

**WARNING**

Do not operate equipment with a damaged cord or if the equipment has been damaged - until it has been examined by a qualified serviceman.

**WARNING**

Do not let cord hang over edge of table, bench or counter, or come in contact with hot manifolds or moving fan blades.

**WARNING**

An extension cord is not allowed. For testing use only specified cables.

**WARNING**

To protect against risk of fire, do not operate equipment in the vicinity of open containers of fuel (gasoline).

**WARNING**

Adequate ventilation should be provided when working on operating combustion engines.

**WARNING****Risk of explosions**

The VAS 6910 has internal parts which emit sparks and therefore must not be exposed to flammable fumes. The VAS 6910 should be operated at least 460 mm (18 inches) above the floor surface since fumes from fuels and other materials accumulate at floor level.


**WARNING*****When connecting non-VW vehicles***

The VAS 6910 is been developed for vehicles from the Volkswagen group. It must not be used on vehicles from other manufacturers!

**WARNING**

Set up the VAS 6910 so that adequate ventilation is guaranteed, fans and air vents are not obstructed and the air must circulate freely!

**WARNING**

When connecting the cell module, make sure the IR temperature sensor  is not covered and ensure direct visibility between the sensor and the module.

**ATTENTION**

All measurement cables may only be used within the measurement ranges stipulated in the technical specifications and the descriptions in the operating manual. Do not carry out measurements on damaged cables.

**ATTENTION****Cleaning**

Pull out the DC supply plug before cleaning the VAS 6910. Clean the VAS 6910 **only** with a dry cloth. Do **not** use cleaners or solvents.

SAVE THESE INSTRUCTIONS!

IMPORTANT SAFETY INSTRUCTIONS

1. Read all instructions.
2. Care must be taken as burns can occur from touching hot parts.
3. Do not operate equipment with a damaged cord or if the equipment has been dropped or damaged - until it has been examined by a qualified serviceman.
4. Do not let cord hang over edge of table, bench or counter or come in contact with hot manifolds or moving fan blades.
5. If an extension cord is necessary, a cord with a current rating equal to or more than that of the equipment should be used. Cords rated for less current than the equipment may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
6. Always unplug equipment from electrical outlet when not in use. Never use the cord to pull the plug from the outlet. Grasp plug and pull to disconnect.
7. Let equipment cool completely before putting away. Loop cord loosely around equipment when storing.
8. To reduce the risk of fire, do not operate equipment in the vicinity of open containers of flammable liquids (gasoline).
9. Adequate ventilation should be provided when working on operating internal combustion engines.
10. Keep hair, loose clothing, fingers, and all parts of body away from moving parts.
11. To reduce the risk of electric shock, do not use on wet surfaces or expose to rain.
12. Use only as described in the manual. Use only manufacturer's recommended attachments.
13. **ALWAYS WEAR SAFETY GLASSES.** Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

SAVE THESE INSTRUCTIONS

1 Important Information

Dear customer,
please note the following points in case of transport damage/incomplete delivery.

Goods / packaging damaged on the outside (without / with repackaging):

- Please describe the damage (condition of the goods / packaging)
- enclose photos if possible (before and after the unloading)
- Please mention the defect on the freight document, along with a signature of the driver
- Contact **Volkswagen dept. K-VO-W** immediately.

Goods / packaging in order on the outside / defects ascertained subsequently / missing parts:

- Describe the damage
- Enclose photos if possible
- Check the delivery, see /1/, Unpacking Instructions, Start-up, Brief instructions, chap. 2 "*Scope of delivery*"
- Contact **AVL DiTEST Fax +49 (0) 9103-7131-112** immediately Enclose the form "System delivery/proof of delivery", see /1/, Unpacking Instructions, Start-up, Brief instructions, „*Enclosure*". For that, fill out the white fields.

Exception - USA and Canada:

- Please report directly to Equipment Solutions, Volkswagen of America:
Fax.: 800-892-9651.

Exception - Japan:

- Please report directly to your sales centre, VGJ Japan:
Fax.: 03-3570-3066.

Warranty and registration

The warranty is 24 months from the first delivery (except for wearing parts) and is only valid if registration is carried out.

To register, please return the completed registration certificate by fax directly to the AVL DiTEST- Service Centre in Germany.

A form for the registration certificate is given in /1/, Unpacking Instructions, Start-up, Brief instructions, Enclosure.

Please also retain your delivery receipt as proof of purchase.

The address, telephone and fax number of the relevant service centre is given in /4/, Service Information, chapter 3.1 "*Regional service centres*".

AVL DiTEST Germany Fax: +49 / 9103 / 7131 / 112 International
(Registration to this address only) 09103 / 7131 / 112 Germany

Thank you for your cooperation,
Your AVL DiTEST Service Center

Temperature compensation

When delivering the VAS 6356 in the winter, the inside of the device must be prevented from becoming moist. For this reason, we request that you allow the device to stand for approx. 3 hours at the location from which it is to be operated before connecting it or switching it on!

Safety and start-up instructions

Before starting up the device, please read the safety and start-up instructions carefully.

Certificates

This product complies with all relevant directives and standards.

The full text of the EU Declaration of Conformity can be found on the Internet at:

<https://www.avlditest.com/index.php/en/downloads-en.html>

2 Scope of Delivery

2.1 System Delivery

No.	VAS-No.	Item	Article no.	
			AVL DiTEST	VOLKSWAGEN
1.	6910	Module-Balancer VAS 6910 incl. Powercord incl. Unpacking, startup and brief instructions manual (hard copy)		ASE 447 230 00 XXX ¹
2.	6910/1	Adaption and transport box	BG7455	ASE 447 231 00 000
3.	6910/2	Module-Balancer incl. power cord	BO7841	ASE 447 232 00 000
4.	611003	USB-cable (USB 2.0 Fischer to USB 2.0 B Rugged)	BV8139	ASE 611 003 00 000
5.	611001	USB-cable(USB 2.0 A to USB 2.0 B Rugged)	EX7069	ASE 611 001 00 000
6.	6910/5	Operating manual and Software CD	BO7859	ASE 447 235 00 000

¹ table: country variants

Country/Region	ASE number
Europe	ASE 447 230 00 000
USA	ASE 447 230 00 023
Netherlands	ASE 447 230 00 032
Norway	ASE 447 230 00 036
Sweden	ASE 447 230 00 037
France	ASE 447 230 00 040
Italy	ASE 447 230 00 050
Korea	ASE 447 230 00 056
Spain	ASE 447 230 00 060
Japan	ASE 447 230 00 070
People's Republic of China	ASE 447 230 00 074



WARNING

Use only the referenced accessories from AVL DiTEST!



WARNING

Use the included mains cord set (power cord)!

If the mains cord set has to be changed note the following requirements strictly!

On 240 V mains grid the mains cord set must be designed for a continuous current of 10 A, on 120V mains grid the mains cord set must be designed for a continuous current of 20 A. The mains cord set must have a C19 plug for the connection to the VAS6910 suitable for the above current ratings.

Connect VAS 6910 only to protective contact sockets!

Set up the VAS 6910 in a way that there is always free access to the power separator!
(Power cord from the mains socket).

2.2 Deliverable Accessories

7.	6910/10	Basic cable set Module adaption 1: (e-up!) 1. Cable for plus and minus, loose cable clips 2. Cable for connecting 4 diff. analog signal connectors	BO7852	ASE 447 240 00 000
	6910/10-1		BV8190	ASE 447 246 00 000
	6910/10-2		BV8191	ASE 447 247 00 000
	6910/10-3		BV8140	ASE 447 248 00 000
	6910/10-4		BV8141	ASE 447 249 00 000
	6910/10-5		BV8142	ASE 447 250 00 000
	6910/10-6		BV8143	ASE 447 251 00 000
8.	6910/11	Extension cable set Module adaption A: (e-Golf) 1. Slave simulation 2. Slave analog measurement For VOLKSWAGEN e-Golf both cable sets VAS 6910/11 and VAS 6910/12A are necessary!	BO7853	ASE 447 241 00 000
	6910/11-1		BV8145	ASE 447 257 00 000
	6910/11-2		BV8146	ASE 447 258 00 000
9.	6910/12B	Basic cable set Module adaption 2: (PHEV) 1. Cable for plus and minus, loose cable clips for use with PHEV module and AUDI A3-e-tron 2. CAN Cable for connecting the module controller to the VAS6910	BO8018	ASE 447 242 02 000
	6910/12B-1	Connecting cable PLUS	BV8188	ASE 447 252 02 000
	6910/12B-2	Connecting cable MINUS	BV8189	ASE 447 253 02 000
	6910/12A-3	Connecting cable CAN	BV8265	ASE 447 254 00 000
10.	6161/1	2D-Barcodescanner USB connector Delivered by Volkswagen AG		ASE 447 043 00 000
11.	6910/13	Basic cable set module adaption 3 Porsche G1 II & E2 II PHEV	BO7855	ASE 447 243 00 000
			BV8190	

		1.cable for „plus“, loose cable clip and M6 knurled nut 2.cable for „minus“, loose cable clip and M6 knurled nut 3.CAN cable	BV8191 BV8200	
12.	6910/14	Basic cable set module adaption 4 Volkswagen XL 1 1.Cable for „plus“, Loose cable clip and M6 knurled nut 2.Cable for „minus“,Loose cable clip and M6 knurled nut Analogue cable module XL 1 For Volkswagen XL 1	BO7865 BV8190 BV8191 BV8193	Purchase via XL1 After Sales Volkswagen AG
13.	6910/15-1 6910/15-2	1. e - Up R Analog connection cable for module variant 12E.915.592.B/.....592.C 2. e - Up L Analog connection cable for module variant 12E.915.591.E/....591.F1	BV8294 BV8295	ASE 447 255 00 000 ASE 447 256 00 000
14.	6910/16-1 6910/16-2	1. CCE Analog connection cable for slave modules 2. CMC-CCE Slave Simulation e-Golf 300 GP	BV8296 BV8315	ASE 447 245 00 000 ASE 447 259 00 000
15.	6910/17-1 6910/17-2	Audi e-tron quattro Effizienz/Performance	BV8317 BV8318	ASE 447 260 00 000 ASE 447 261 00 000
16.	6910/18-1 6910/18-2	Audi e-tron quattro Einsteiger	BV8362 BV8364	ASE 447 263 00 000 ASE 447 264 00 000
17.	6910/19	For connecting modules of the Premium Platform Electromobility (PPE) with TPL communication. First use: Porsche Taycan / Audi e-tron GT.	BO8001	ASE 447 265 00 000

18.	6910/20	VOLKSWAGEN: Lavidia BEV, e-Golf, ABT e-Caddy, AUDI Q2	BV8020	ASE 447 266 00 000
		1. 4 x plastic Position blocks with Screws and instructions	BO8030	ASE 447 267 00 000
		2. Analog connection cables	BV8415	ASE 447 268 00 000
		3. Connection cable PLUS	BV8423	ASE 447 252 02 000
19.	6910/21	VOLKSWAGEN: Cell modules MEB	BV8021	ASE 447 300 00 000
		1. Cover hood	RM7557	ASE 447 301 00 000
		2. Insulating mat	MR7497	ASE 447 303 00 000
		3. Analog connecting cable	BV8427	ASE 447 302 00 000
		4. Connection cable PLUS	BV8423	ASE 447 252 02 000
		5. Connection cable MINUS	BV8424	ASE 447 253 02 000

**WARNING**

Use only the referenced accessories from AVL DiTEST!

3 Unpacking Instructions



Fig. 3-1 Packaging of VAS 6910 Scope of delivery

Unpack the VAS 6910 and its accessories and check the contents in accordance to chapter 2.

4 Start-up

4.1 Installation of the DSS software



CAUTION

Please install the DSS-Software **before** connecting the VAS6910 to your Diagnostic Tester System!

To install the DSS-Software you will need admin rights!

1. Start up your VW Diagnostic system.
2. **a).** Installation file was downloaded from AVL DiTEST site:
Double-click the downloaded installation file
Install.VAS6910+6911+6558A_.....exe.
- b) Installation file is located on CD/DVD:**
Insert CD/DVD into CD/DVD -Drive.

If your computer has autorun enabled, the Installer starts automatically.
Otherwise do a right click on the file „**Install...exe**“
and choose „*Run as administrator*“.
3. After unzipping some files you're the installer shows the program packages which need to be installed.
Only newer versions will be installed.
Please confirm the selection by pressing Next (Weiter).

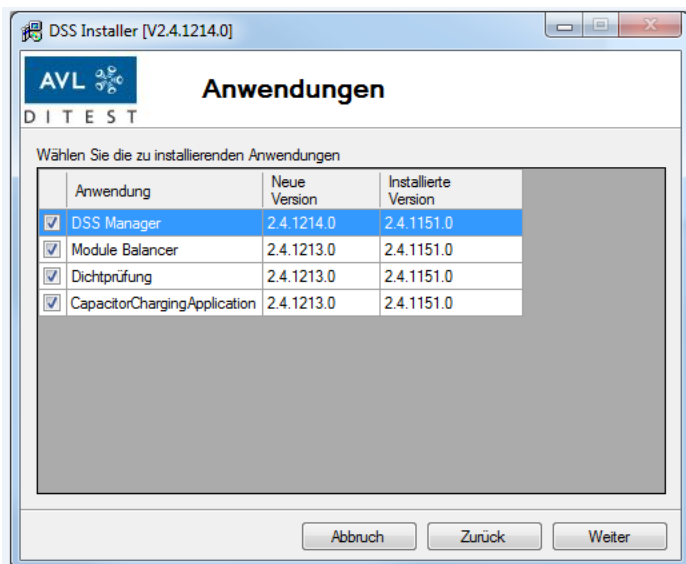


Fig. 4-1 Program packages to be installed

4. Exit the installation by clicking on **Next**.
5. After installation finished please restart your VW Diagnostic system.

4.2 Hardware



CAUTION

Temperature compensation

When delivering the VAS 6910 in the winter, the inside of the device must be prevented from becoming moist. For this reason, we request that you allow the device to stand for approx. 3 hours at the location from which it is to be operated before connecting it or switching it on!



CAUTION

Before using the VAS 6910, read through the operating manuals. They contain additional information on starting-up and operation..



WARNING

Set up the VAS 6910 so that adequate ventilation is guaranteed, fans and air vents are not obstructed and the air must circulate freely!
Set up the VAS 6910 in a way that there is always free access to the power separator! (Power cord from the mains socket).

1. Open the latches (1), (2), (4) and (5) and remove the cover (3).

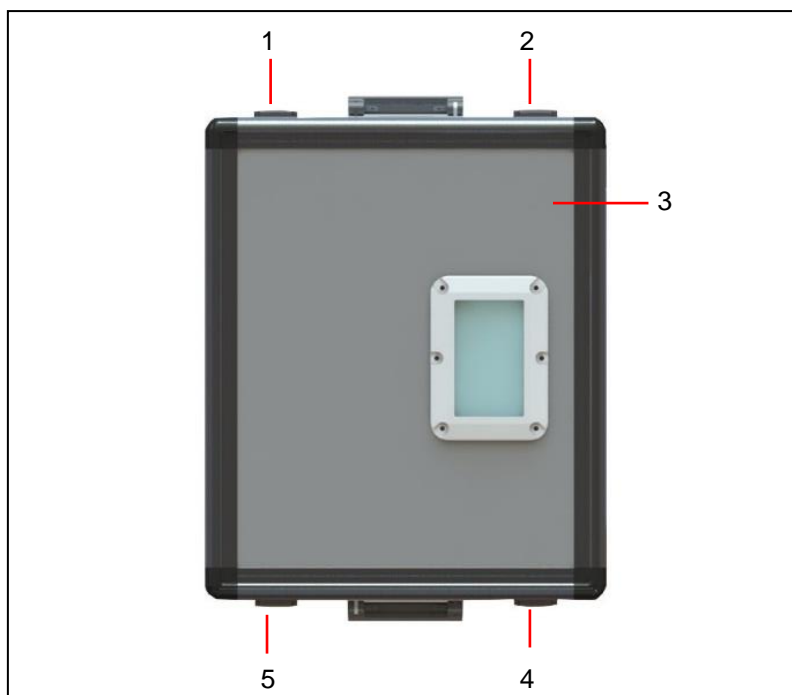


Fig. 4-1 VAS 6910

- Take the basic device (2) from the transport / adapter case (1) and put it as shown right beside the case (3).

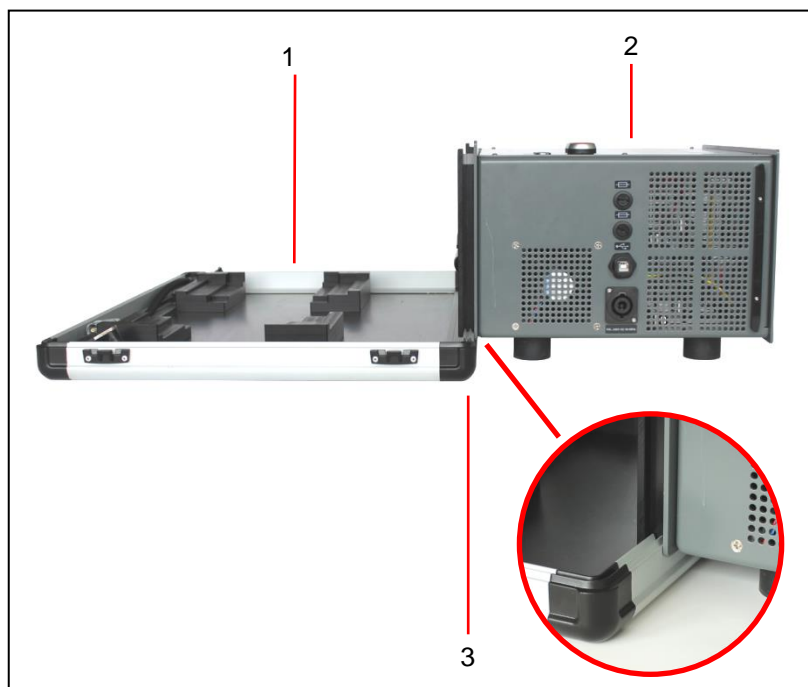


Fig. 4-2 VAS 6910

- Connect the basic device to the VW Diagnostic system via an USB-cable.
If your diagnostic system has an unused Fischer-connector use USB-cable VAS 611003 (USB 2.0 Rugged auf USB 2.0 B)

Otherwise use the USB-cable VAS 611001 (USB 2.0 A auf USB 2.0 B)

Please make sure that the connector fits correctly and the USB-Rugged connector is screwed.



Fig. 4-3 VAS 6910

4. Connect the power cord to the mains connector (1) and the main plug into the wall outlet.

**WARNUNG**

Use only the supplied power cord!

Connect VAS 6910 only to protective contact sockets!



Fig. 4-4 VAS 6910

5. Connect the bar code reader to the VW Diagnostic system via USB.
6. The VAS 6910 is ready for operation.

4.3 Access to the user documentation

NOTICE

The manuals are maintained and are delivered with every CD/DVD.
After each update, please have a look for new information.

Viewing and printing an operating manual on the VW tester

Click **Start | Program files | DiTEST | VAS6910 | VAS6910-Documents.**

Click on your language and then on the desired manual.

(the manuals are stored on your hard drive at installation time)

The desired manual is shown using the Adobe Reader.

VAS 6910 Service-Information

Information on regional service center can be found in the manual „*Service Information*“.

Use the „Fault report FAX“ to report errors. You can find it at the end of the manual
“*Service Information*“.

5 Brief Instructions

5.1 Installation of the DSS software

Please install the DSS-Software before connecting the VAS6910 to your Diagnostic Tester System! To install the DSS-Software you will need admin rights!

1. Run the „***Install.....exe***“ from the delivered CD/DVD.
2. Follow the instructions on the screen.
The DSS-Software will be installed on your VW Diagnostic system.

5.2 Start-up

1. Remove the cover from the transport- / adapter box.
2. Take the basic device from the transport / adapter case and put it as shown right beside the case
3. Connect the VAS6910 Basic Unit to a free USB Port on your VW Diagnostic system
4. Connect the bar code reader to a free USB port on your VW Diagnostic system.
5. Connect the VAS 6910 to the power grid.
6. Press green key on top of the basic unit.
⇒ The power module is switched on.

5.3 Charging / Discharging

1. Run the VAS6910 Software from menue
Start | Programme | DiTEST | VAS Manager.
2. Choose **Charging/Discharging.**
3. **Please read the safety instructions and follow the instructions very carefully!**
4. Input your username.
5. Scan the bar code label on the cell module.
Edit field „Scan-code“ (1) shows the scanned module information.
Cell module type (2) and serial number (3) are automatically extracted from the scan.
If a bar code reader isn't available:
Please choose a cell module type (2) and enter a serial number (3).

Enter the avg. cell voltage (4), delivered by VW Diagnosis.

The screenshot shows the 'Module balancer' software window with the following data:

Moduleparameters	
Scancode	[Empty field] 1
Moduletype	12E.915.591 2
Serialnumber	1265422 3

Chargingparameters	
Mean Cellvoltage	4 3,5 V Min=3.0V Max=4.1V
Targetvoltage of Module	21.00V

Moduleinformations	
Name	E-UPI V120/7_1
Manufacturer	
Moduleconfiguration	6s2p
Monitoringcable	VW120/7 - X1
Slavesimulationcable	---
Capacity	1068 Wh
Celltype	Lilon

At the bottom of the window, there are navigation buttons: Cancel, F1, F2, F3, F4, F5, F6, F7 (Back), and F8 (Next).

6. Put the cell module you want to charge/discharge into the adapter box.
7. Connect the cell module to the VAS6910 as described on the screen.
Please follow the order carefully.
8. The cell module is charged / discharged.
9. After charging/ discharging is finished, disconnect the cell module according to the screen.
10. At the next step the result protocol is shown. You can make a printout. The protocol is saved on your hard disk later use.
11. The process ends after you press **F8 Next**. You can quit the program or start the next charging/discharging process.

6 Faults

If a fault occurs then please proceed as follows:

- Try to determine what the fault is and to localize it as exactly as possible. Consult the instructions in the Troubleshooting chapter in the Hardware operating manual before contacting the appropriate customer service.
- Fill out the fault report fax in detail, adding any other relevant details, and send it to the faults hotline.

You receive a fault report fax as follows:

- Copy the attached form from the VAS service information and use it.
- Displaying and printing with Display Documents (see Section 4.3 “*Access to the user documentation*”).

6.1 Regional service centres

See Service Information, chapter 3.1 “*Regional service centres*”.

VAS 6910 System Delivery – Proof of delivery						
For complaints, please send a fax to AVL DiTEST ++49 (0) 9103 - 7131 - 112						
Note:						
<ul style="list-style-type: none"> • Please fill out ALL white fields • The delivery is subdivided into A - System delivery, B - deliverable accessories 						
Name of Company: _____			Series number _____			
Department/Division: _____						
Contact Person: _____						
Building, Floor: _____			Telephone No. (incl. country code)			
Address: _____			_____			
Zip Code / City: _____						
Country: _____			Fax: _____			
Lieferschein-Nr.: _____ Datum: _____						
Transport damages with damaged outer packaging?						
Yes <input type="checkbox"/> No <input type="checkbox"/>						
Number of article / Comments on packaging	Name of article	Nominal no. of pieces	Available?		Damaged?	
			Yes	No	Yes	No
A	VAS 6910 ASE 447 230 00 000	Module-Balancer VAS 6910 incl. power cord & AIK (GB)				
	VAS 6910/1 ASE 447 231 00 000	Adapter and Transportation box	1			
	VAS 6910/2 ASE 447 232 00 000	VAS 6910 Module-Balancer incl. power cord	1			
	VAS 611003 ASE 611003 00 000	USB-Cable (USB 2.0 Rugged to USB Fischer)	1			
	VAS 611001 ASE 611001 00 000	USB-Cable (USB 2.0 Rugged to USB-A)	1			
	VAS 6910/5 ASE 447 235 00 000	User Manual, Software on CD	1			
B	VAS 6910/10 ASE 447 240 00 000	Basic cable set Module adaption 1: (e-UP!)				
	VAS 6910/10-1 ASE 447 246 00 000		1			
	VAS 6910/10-2 ASE 447 247 00 000		1			
	VAS 6910/10-3 ASE 447 248 00 000		1			
	VAS 6910/10-4 ASE 447 249 00 000		1			
	VAS 6910/10-5 ASE 447 250 00 000		1			
	VAS 6910/10-6 ASE 447 251 00 000		1			

VAS 6910/20 ASE 447 266 00 000	Volkswagen: Lavida BEV, e-Golf, ABT e-Caddy, AUDI Q2,	1				
6910/20-1 ASE 447 267 00 000	1. BV8030 4 x plastic Position blocks with Screws and instructions	1				
6910/20-2 ASE 447 268 00 000	2. BV8415 Analog connection cables	1				
6910/12B-1 ASE 447 252 02 000	3. BV8423 Connection cable PLUS	1				
6910/12B-2 ASE 447 253 02 000	4. BV8424 Connection cable MINUS	1				
VAS 6910/21 ASE 447 300 00 000	Volkswagen: cellmodules MEB	1				
VAS 6910/21-1 ASE 447 301 00 000	1. RM7557 Cover hood	1				
VAS 6910/21-3 ASE 447 303 00 000	2. MR7497 Insulating mat	1				
VAS 6910/21-2 ASE 447 302 00 000	3. BV8427 Analog connecting cable	1				
VAS 6910/12B-1 ASE 447 252 02 000	4. BV8423 Connecting cable PLUS	1				
VAS 6910/12B-2 ASE 447 253 02 000	5. BV8424 Connecting cable MINUS	1				

please mark with a cross

Registration certificate for VAS 6910

Important Information

Supply with program updates can only be done after successful registration.

The data were also needed to ensure future support from the AVL DiTEST Service Centre as well as for repairs and warranty processing.

Updates:

- Domestically, the updates are made via the VOLKSWAGEN ServiceNet / DNE server.
- Abroad, the updates are made by the relevant importers.
The importers also receive the updates via the VOLKSWAGEN ServiceNet / DNE server and forward them to the workshops.

You have received the VAS 6910, which can be identified by serial numbers relevant for service and support purposes. Please complete the relevant fields and fax without delay to the AVL DiTEST Service Centre in Germany. Please answer the following questions in block letters using a black ball-point pen.

Fax-No. +49 9103-7131-112 (International)
09103-7131-112 (Germany)

1. Registration details

VAS 6910 Serial number _____

2. Dealership details

VW-affiliate workshop <input type="checkbox"/>	Independent workshop <input type="checkbox"/>
Sales centre („VZ“)/ _____	Dealership number ¹ _____
Importer No ¹ _____	
Name of company _____	Tax ID number ² _____
Contact Person _____	Telephone _____ Fax _____
<u>Postal address:</u>	<u>Delivery address</u>
	(if different to postal address):
Address _____	Address _____
Zip code _____ Ort _____	Zip code _____ Ort _____
Country _____	Contry _____

1. Same as to be entered / already entered on the tester (see operating manual)
2. For EU countries only

When did you receive the device? _____ Date _____

City _____ Date _____ Signature _____ Stamp _____