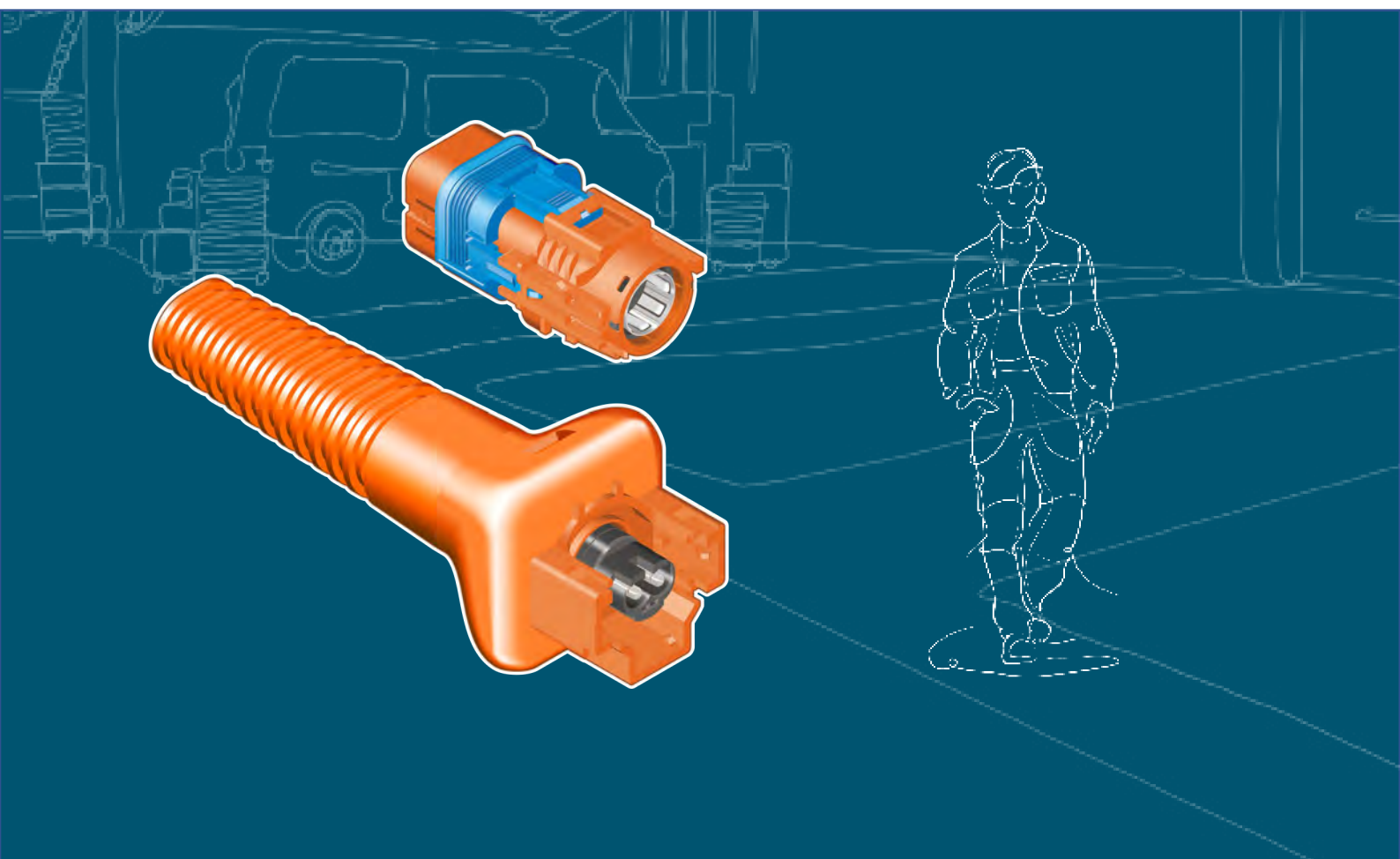


VOLKSWAGEN

AKTIENGESELLSCHAFT



Short operating manual

Calibration adapter set VAS 5143A/17



Revision	Date	Reason
V00	08.02.2022	First edition
V01	08.03.2022	Chapter revision: <ul style="list-style-type: none"> - Symbols and connections - Maintenance - Storage and transportation

Legal notice

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Preliminary information

Read through this operating manual carefully before using the product.

The product is delivered with a USB stick containing the operating manual in various languages. You can find the current version and additional languages on our homepage.

The operating manual is an essential part of the product and must be kept together with the product. If you sell or transfer ownership of the product, the operating manual must be handed over to the new operator.

In addition to this operating manual, you must observe all relevant regulations for diagnostics or troubleshooting of intrinsically safe high-voltage systems in road vehicles. This includes but is not limited to: instructions for the vehicle manufacturer's diagnostics systems, company-specific safety requirements and the state of the art for working with high-voltage systems.

Validity of the declaration of conformity

The declaration of conformity applies to the product described in the operating manual. Any changes, modifications or extensions shall void the declaration of conformity and the risk assessment.

Manufacturer specifications



STODIA_{GMBH}
SPEICHER & DIAGNOSETECHNIK

Since its founding, our company has focused on groundbreaking solutions for electromobility. Stodia GmbH develops and produces custom solutions for the automotive industry, the energy storage sector, repair shops and special vehicle fleets.

Our core products are innovative electrical storage systems, both stationary and mobile, which are essential technologies for advancing the energy revolution and energy autonomy. Stodia's portfolio also includes smart charging and battery technology, diagnostic systems, battery and cell management, and vehicle-wide measurement and diagnostic technology.

With experience in both software and hardware development, Stodia GmbH is your dependable partner at every production stage, from prototyping to series production.

Additional Documentation

In addition to this document, the following documentation is also included with the product:

- Operating manual "Calibration Device VAS 5143A", printed document AT7644

This safety chapter provides information about the following:

- The warning levels contained in this operating manual
- Important safety instructions for the product
- Intended use of the product
- Requirements for the target group
- Duties of the operator

This operating manual is only valid for the following product:

Item number	22104159
Designation	Calibration adapter set VAS 5143A/17

Warning levels

This chapter provides information about the warning levels used in this operating manual.

WARNING

Failure to observe with the safety instructions CAN result in death or serious injury!

CAUTION

Failure to observe the safety instructions CAN result in minor physical injury!

Intended use

The intended use is described in the operating manual from AVL (see “Additional Documentation” section).

Requirements for the target group

Only qualified personnel may work with this product!

In this operating manual, qualified personnel is defined as personnel meeting all requirements for working on high-voltage systems applicable in the country of operation, as defined by:

- Regulations applicable in the country of operation
- Qualification according to DGUV 200-005 level 2 or higher, or equivalent
- Specifications from the vehicle manufacturer and/or the operator.

At all times while using the product, staff must wear the personal protective equipment prescribed by the vehicle manufacturer for work on high-voltage systems.

Duties of the operator

The operator is responsible for ensuring that all staff working with the calibration set adapter fulfills the requirements for the target group.

Furthermore, the operator is responsible for ensuring the following:

- The calibration adapter set is always in perfect working order.
- The regular inspection intervals for the calibration adapter set are observed and recorded.

Scope of delivery

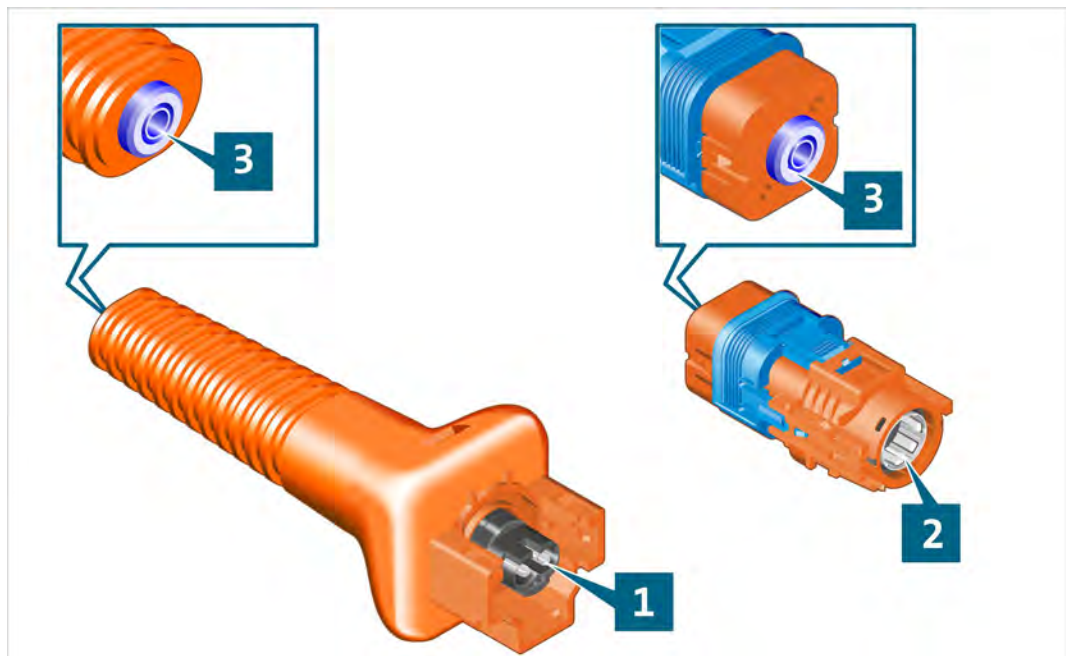
Immediately check the condition of the product and the completeness of the delivery. If anything is missing or defective, please contact the manufacturer immediately.



- (1) Calibration adapter VAS 5143A/17-2
- (2) Calibration adapter VAS 5143A/17-1
- (3) USB stick with operating manual

Design







Product design:



- (4) Plug for high-voltage test adapter VAS 6558A/30
- (5) Plug for high-voltage test adapter VAS 6558A/30
- (6) Laboratory safety socket

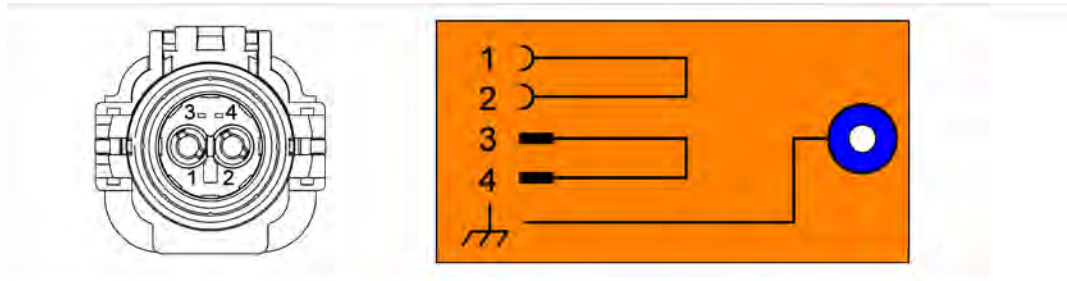
Symbols and connections

The following symbols are shown on the product:

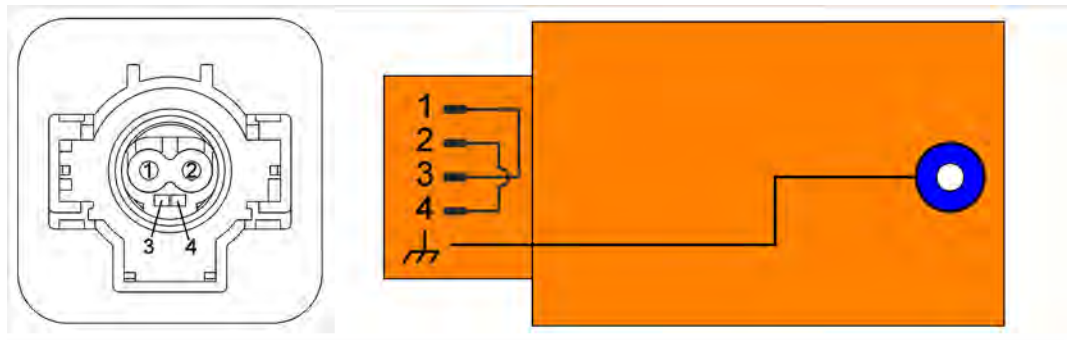
Symbol	Meaning
	General warning symbols
	Read the operating manual.
EX7786 EX7787	The identification numbers are used to identify the assemblies at the supplier.
	The product must not be disposed of with household waste, but instead in compliance with all current local disposal regulations.
	The product complies with all applicable European regulations and has been subjected to the prescribed conformity assessment procedure.
	The product complies with all applicable British regulations and has been subjected to the prescribed conformity assessment procedure.
	The product has been approved for use in workshops and production facilities belonging to the vehicle manufacturer.

Wiring diagram

Calibration adapter VAS 5143A/17-1



Calibration adapter VAS 5143A/17-2



Technical data

Rated data	Values
Manufacturer number	22104159
Maximum rated voltage	DC 60 V
Maximum rated current	1000 mA
Weight	VAS 5143A/17-1: 370 g VAS 5143A/17-2: 370 g
Dimensions L/H/W	VAS 5143A/17-1: 138 mm/50 mm/50 mm VAS 5143A/17-2: 75 mm/36 mm/36 mm

Ambient conditions	Operation	Storage	Transportation
Temperature	5°C to 40°C	-20°C to 60°C	-20°C to 60°C
Elevation above sea level	Max. 2000 m	No limitation.	
Humidity	Max. 80% up to 31°C, decreasing linearly to 50% at 40°C	Max. 85%	
	Condensation not permitted. Maximum permissible relative humidity: 60% in environments with corrosive gas/air.		

This chapter provides information about the following activities:

- Startup
- Detaching the plug connection
- Cleaning
- Storage and transportation
- Disposal
- Maintenance



WARNING

Danger of fatal electric shock!

Connecting the calibration adapter causes the respective connection on the high-voltage test adapter to be short-circuited!

- Make sure that you remove the calibration adapter once you have completed the measurement!



CAUTION

Risk of damage!

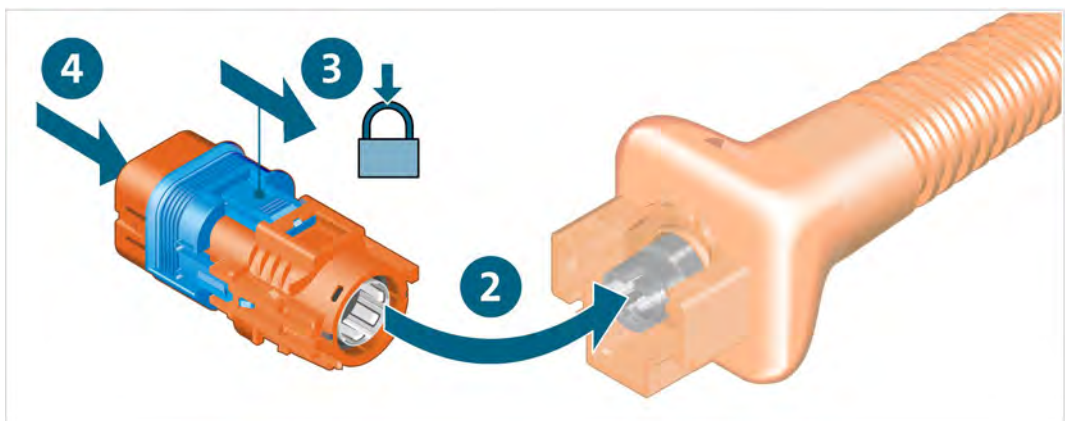
Plug connections lock into place when attached.

- Unlock the plug connections before you detach them! (See chapter “Detaching the plug connections”)

Startup

Connecting calibration adapter VAS 5143A/17-1

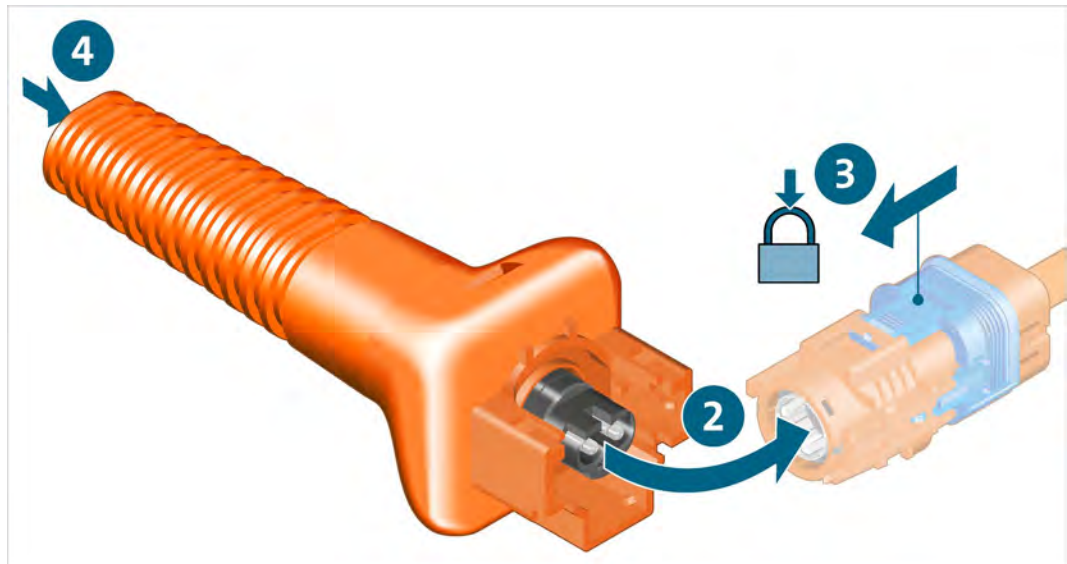
1. Observe the safety instructions.
2. Connect the calibration adapter VAS 5143A/17-1 to the disconnected plug of the high-voltage test adapter.
3. Lock the connection.
4. Connect a suitable measuring instrument to the laboratory safety socket.



- ✓ You can now perform the measurements on the high-voltage test adapter.

Connecting calibration adapter VAS 5143A/17-2

1. Follow the safety instructions.
2. Connect the calibration adapter VAS 5143A/17-2 to the disconnected plug of the high-voltage test adapter.
3. Lock the connection.
4. Connect a suitable measuring instrument to the laboratory safety socket.

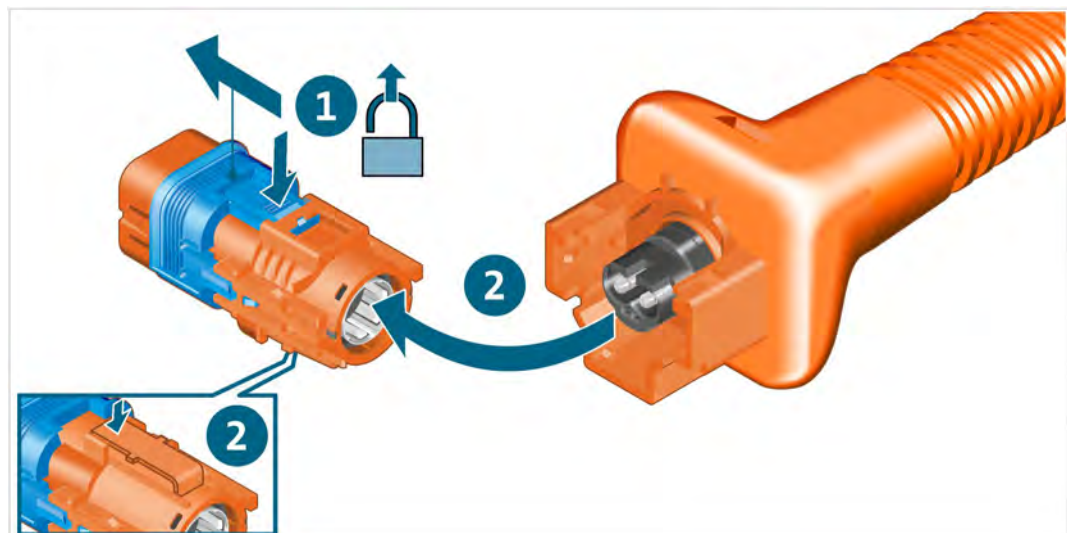


- ✓ You can now perform the measurements on the high-voltage test adapter.

Detaching the plug connections

The plug connection has a pre-locking mechanism and a main locking mechanism. To release the plug connection:

1. Depress the tab on the pre-locking mechanism and pull it all the way back. This releases the main locking mechanism.
2. Depress the tab on the main locking mechanism and pull the plug connection apart.



- ✓ The plug connection is now detached.

Cleaning



CAUTION

Danger of electric shock!

The electrical voltage in the product is dangerous and can cause mild injury from electric shock!

- Disconnect the product from all power sources before cleaning the product!

Observe the safety instructions!

Use only a dry cloth to clean the product.

Storage and transportation

Store the product in a dry and dust-free location when not in use.

Disposal

Observe the safety instructions!

Always dispose of the product in accordance with all local disposal regulations.

Maintenance

Follow the safety instructions.

National and local requirements for regular testing must be observed.

Warranty

Stodia GmbH grants a warranty period of 24 months from the date of purchase. The warranty is valid for demonstrable defects in functional material and workmanship.

Further information on the warranty conditions can be found in the terms and conditions on the manufacturer's website.

Customer service

Always include the identification number with any product queries. You can find the identification number on the product.

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