

Volkswagen Aktiengesellschaft
K-GVO-LW
Konzern After Sales – Group Service,
Literatur und Systeme
Werkstattausrüstung
Brieffach 011/4915
38442 Wolfsburg

For internal use only
Subject to technical changes
Status MM/YYYY

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Workshop Equipment
Letter Box 011/4915
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VOLKSWAGEN
AKTIENGESELLSCHAFT



Operating instructions







Holder - VAS 501 023



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Explanation Of the Symbols

 <p>Danger</p>	<p>The triangular warning symbol with the signal word "Danger" indicates an imminent danger that will definitely result in death or serious physical injury</p>
 <p>Warning</p>	<p>The triangular warning symbol with the signal word "Warning" indicates a potentially dangerous situation that could result in death or serious injury</p>
 <p>Caution</p>	<p>The triangular warning symbol with the signal word "Caution" indicates a potentially dangerous situation that could result in minor or slight physical injury. The triangular warning symbol with the signal word "Caution" also indicates a harmful situation that could result in material damage</p>
 <p>INFO</p>	<p>Special information regarding the safe and economical use of the system</p>
 <p>Attention</p>	<p>The round warning symbol with the keyword "Caution" indicates a potentially harmful situation that could result in material damage</p>
 <p>Important</p>	<p>The hand with the signal word "Important" provides instructions and tips for use</p>

General Notices

These operating instructions describe the operation and maintenance of the interchangeable equipment:


Holder VAS 501 023 hereinafter also referred to as "special tool."

Safe operation requires compliance with the regulations and instructions in this manual. The operating instructions help to identify hazards and avoid dangerous situations.

The safety instructions must be strictly adhered to in order to avoid accidents.

All data and contents of these operating instructions have been carefully compiled and checked. We accept no liability for any errors or omissions in the supplier's operating and assembly instructions.

The documentation of technical changes and additions resulting from changes and further development of the system by the operator are the responsibility of the operator.


 Important	These operating instructions are only valid in conjunction with the operating instructions of the individual manufacturers
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Security Measures

Existing safety and operating instructions, as well as the subcontractors' documentation, must be kept to hand at all times.

prevention and environmental protection must be provided and observed.

In addition to the Safety and Operating Instructions, the generally applicable and local regulations for accident

 INFO	The operating personnel are responsible for compliance with the safety regulations!
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Scope of delivery

Product number:	Description:	Weight:	Maximum load capacity:
VAS 501 023	Holder	16.4 kg	150kg/piece

General Safety Instructions



Warning

Read and follow all safety warnings and instructions!

Failure to adhere to the safety warnings and instructions may result in significant harm to individuals and property.

Observe and follow the safety instructions below.

Any work with the special tool Holder VAS 501 023 may only be carried out by personnel who are sufficiently qualified, instructed and authorized for the corresponding work tasks.

Personnel must be able to assess the work assigned to them and assess possible hazards on the basis of their specialist training, knowledge and experience as well as knowledge of the relevant regulations and prevent damage to persons and property by acting in a safe manner.

The rules and regulations for accident prevention applicable to the place of use must be observed. In addition to the safety instructions, the applicable statutory and other binding regulations on environmental protection must be observed.

Every person working with the special tool Holder VAS 501 023 must have read and understood the entire contents of this documentation before starting work and must be familiar with the position and function of all operating elements and safety devices. The workshop area may only be used by persons who are of legal age and who

are physically and mentally fit to do so (rested and not under the influence of alcohol, drugs or medication).

Training in all applicable occupational safety and environmental protection issues must be provided to personnel on a regular basis.

The workshop area may only be used by persons who are of legal age and who are physically and mentally fit to do so (rested and not under the influence of alcohol, drugs or medication).

The basic prerequisite for safe handling is knowledge of the basic safety instructions and safety regulations. However, the special tool Holder VAS 501 023 can cause hazards if it is used improperly by untrained personnel or if it is not used for its intended purpose. The individual assemblies may only be installed, operated, maintained and repaired by personnel authorized and instructed by the operator.

The responsibilities for activities involving the special tool Holder VAS 501 023 must be clearly defined and adhered to.

For safety reasons, unauthorized conversions and/or modifications and tampering with safety equipment are prohibited.

If conversions and/or modifications are carried out, the responsibility and liability for the modified area is transferred to the manufacturer of the conversions.

Figure 1 Holder VAS 501 023

1 Lifting eye

2 Bolts, 2 pieces

3 Screws M14 x 2 x 40 8.8

4 Plate, round

5 Spindle

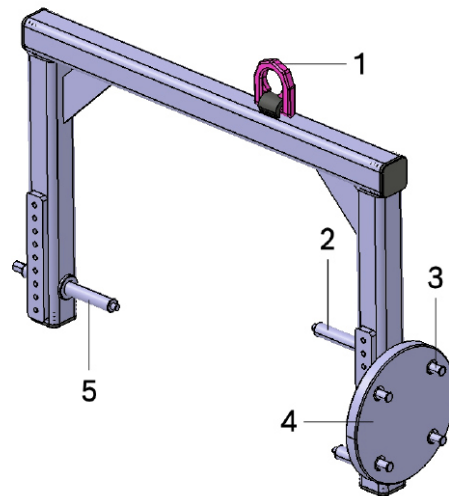


Figure 1 Holder VAS 501 023



Warning

Read and follow all safety warnings and instructions!

Failure to adhere to the safety information and instructions may result in significant harm to individuals and property.

Observe and follow the safety instructions below.

The special tool was designed specifically for its intended use. If you misuse the special tool or make unauthorized modifications to the special tool, safety is no longer guaranteed. This may result in serious injury or serious damage to property.

Ensure that all users of the special tool are familiar with these operating instructions and can access them at any time.

Ensure that any additional tools and equipment required for the job are also familiar to all users.

Carefully read and adhere to the technical safety information provided by Volkswagen Group brands to ensure safety.

Do not use on vehicles with gas powered engines or high voltage components unless properly qualified to do so.

When using on gas-powered vehicles, observe and follow the basic information and safety instructions for gas-powered vehicles in the corresponding information media of the Volkswagen Group brands.

When using on vehicles with high-voltage components, observe and follow the basic information and safety instructions for high-voltage vehicles in the corresponding information media of the Volkswagen Group brands.

Wear safety shoes with protection against electrostatic discharge.

Wear protective gloves to avoid cuts.

Operational safety of the tool Holder-VAS 501 023

Holder VAS 501 023 only operate in technically perfect condition.

All safety equipment must be present and functional.

Holder VAS 501 023 check at least once per shift for externally visible defects or changes in operating behavior!

If there are any indications that the special tool Holder VAS 501 023 is not functioning properly, it must be taken out of service immediately and secured against unauthorized use.

Obligation to report faults and damage to special tools Holder VAS 501 023 must be clearly regulated.

Wear safety goggles.

Position hands and feet carefully to avoid the risk of crushing.

Only use the special tool for work approved by the Volkswagen Group.

Only use the special tool with accessories approved by the Volkswagen Group.

The maximum load capacity of **150kg/piece** must never be exceeded.

Do not exceed the permissible loads of the individual parts according to the "Scope of delivery" tables.

Ensure that all required parts are securely screwed in place.

Move the load slowly and steadily, avoiding sudden movements or jerking.

Observe the special tool holder, the VAS 6095 engine and gearbox holder, the workshop crane and the load during all movements.

Ensure that the travel path for the workshop crane (e.g. VAS 6100) or for the VAS 6095 engine and gearbox holder is clear and easily visible.

Only move and store the motor and gearbox holder and the workshop crane on level ground, do not drive on steps or slopes.

Only move the motor and gearbox bracket with a suspended load when the hydraulic cylinder is fully retracted.

Persons are not permitted to be present under or in the danger zone during movement processes.

Do not work on suspended loads.

Tighten screw connections to the prescribed torque (see the repair guides of the Volkswagen Group brands).

Periodically, but at least once a year, check the presence and function of the safety devices according to the legal requirements of the country of use. Observe the type, scope and intervals of testing.

Do not tamper with or dismantle safety devices.

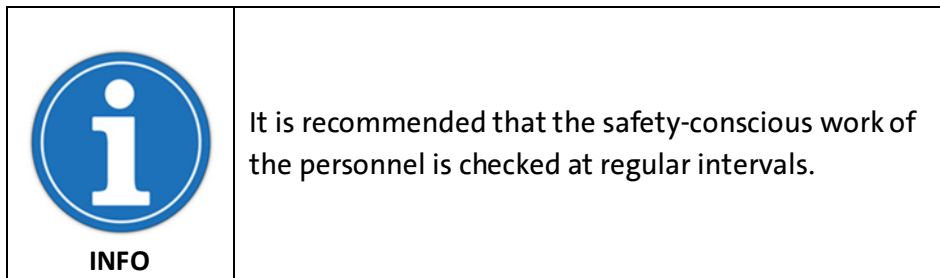
Observe the prescribed deadlines for recurring tests, inspections and maintenance work.

Only use the screws provided or screws of equivalent size and grade.

Obligations of the operator

The operator is obliged to comply with the obligations specified in the individual operating instructions. These include in particular, but are not limited, to

- inform personnel of possible hazards when handling the special tool Holder VAS 501 023 and affix appropriate markings.
- provide staff with the necessary personal protective equipment and encourage them to use it.
- only operate the special tool Holder VAS 501 023 in a safe and technically perfect condition
- monitor compliance with the applicable legal regulations.
- only allow suitable and fully trained personnel to work independently.
- only allow personnel who are to be trained, instructed or undergoing vocational training to work under the constant supervision of an experienced person.
- clearly define the responsibilities for the activities. There must be no unclear responsibilities. These can endanger the safety of personnel.
- have the prescribed adjustment, maintenance and inspection work carried out on time by qualified personnel.
- incorporate all changes into the documentation.
- in addition to the instructions given in these operating instructions, to comply with the applicable statutory regulations on environmental protection.
- Ensure the suitability and competence of the operating personnel.





Obligation of the staff

All persons who are commissioned to work on the special tool Holder VAS 501 023 must comply with the obligations specified in the individual operating instructions. These include in particular, but are not limited, to

- to comply with the nationally applicable laws and regulations as well as the company's internal regulations on accident prevention and occupational safety.
- comply with national laws and regulations as well as the plant's internal regulations for fire prevention and firefighting.
- to read and follow the operating instructions before starting work for the first time.
- to put on personal/workplace-related protective clothing and aids that serve occupational safety or to use them during work, insofar as this is necessary for safety reasons.
- not to wear any jewelry or loose clothing
- not to tamper with or modify safety equipment.




Intended use

- May only be used with original parts from the VAS 6095 engine and gearbox holder, the VAS 6100 workshop crane and accessories.
- Use only for work approved by the Volkswagen Group.
- Do not exceed the permissible loads of the individual parts according to the "Scope of delivery" tables.
- The maximum load capacity of the individual accessories must never be exceeded.
- Only use in conjunction with the approved accessories (see repair guides of the Volkswagen Group brands).
- Carefully read and adhere to the technical safety information provided by Volkswagen Group brands to ensure safety.

 Danger	Risk of injury due to improper use! Improper use can lead to injuries to persons working in the work area and damage to the vehicle or other property!
 Warning	Persons without the required expertise must not have access to the workshop area

Personal protective equipment

Wear where

 Danger	Wear tight-fitting work clothes and tie up long hair. Items of clothing or hair could become trapped during work. This can lead to injuries.
 Warning	Wear safety shoes with non-slip soles and steel toe caps to prevent slipping and mechanical injuries.
 Danger	Wear close-fitting safety gloves during set-up/assembly work to reduce the risk of crushing.

personal protective equipment necessary or required by regulations.

Operation

Before each use, check the holder for visible damage such as signs of wear, deformation, cracks, tears, corrosion damage and loose screw connections. Check all threads for damage. If defects are found, do not use the recording under any circumstances and discard it immediately.

Check the mounting holes on the electric motor and clean if necessary.

Removing the electric motor from a transport box

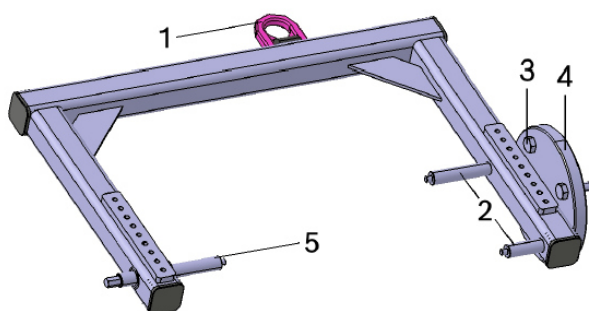


Figure 3 Holder for removing the electric motor from a transport crate

1. Lifting eye
2. Bolt, 2 pieces
3. Screws M14 x 2 x40 8.8, 4 pieces
4. Plate, round
5. Spindle

1. Refer to the Volkswagen Group brand repair guides for the specified mounting holes in the electric motor for the spindle (5) and the bolts (2). Check the mounting holes and clean if necessary.
2. Position the holder on the electric motor so that the spindle (5) and both bolts (2) can be inserted into the mounting holes.
3. Insert the bolts (2) into the locating bores. Screw the spindle (5) hand-tight into the locating bore.

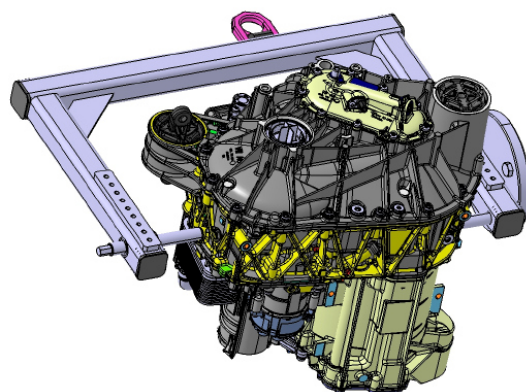


Figure 2 Holder on the electric motor, horizontal

4. Attach the hook of a workshop crane approved by the Volkswagen Group with a suitable load capacity to the lifting eye (1).
5. Call in an assistant to operate the workshop crane and guide the electric motor.

Have an assistant rotate the holder by 90° so that the holder is upright.



Attention

Damage to the electric motor!

Lifting the electric motor with the holder can cause material damage to the electric motor.

- Have the recording rotated by an assistant.
- Ensure that the holder is upright before lifting the electric motor.

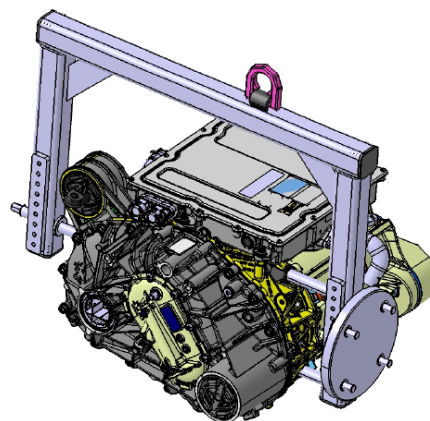


Figure 4 Holder on the electric motor, vertical

6. Carefully lift the electric motor.
7. Move the electric motor carefully to avoid injury and damage to property.



Danger from falling load!

Careless handling of the holder on the workshop crane support can cause the load to tip or fall. This can lead to serious injuries and damage to property.

Warning

- Always call in an assistant to operate the workshop crane and guide the electric motor.
 - Attach the holder to the workshop crane exactly as described in the repair guidelines.
 - Move the load slowly and not jerkily.
 - Observe the holder and the load during the movements.
 - Keep limbs out of the danger zone.
8. For repair work on the electric motor without the VAS 6095 motor and gearbox holder, place the electric motor on a suitable surface. Remove the workshop crane from the holder. Remove the holder from the electric motor. For repair work on the electric motor with the VAS 6095 motor and gearbox holder, carry out the steps in the subsection "Attaching the mount to the VAS 6095 motor and gearbox holder".
 9. Store the recording in a suitable place that is dry and clean.

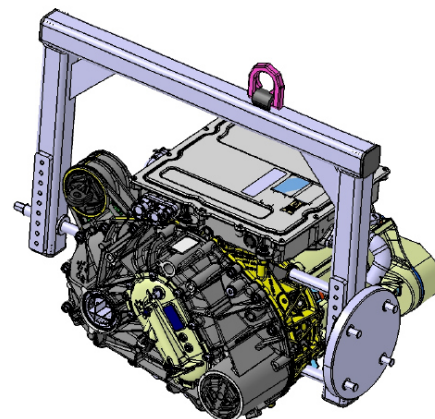


Figure 5 Holder on the electric motor, vertical

6. Move the electric motor carefully to avoid injury and damage to property.



Warning

Danger from falling load!

Careless handling of the workshop crane support can cause the load to tip or fall. This can lead to serious injuries and damage to property.

- Always call in an assistant to operate the workshop crane and guide the electric motor.
- Attach the holder to the workshop crane exactly as described in the repair guidelines.
- Move the load slowly and not jerkily.
- Observe the pick-up and the load during the movements.
- Keep limbs out of the danger zone.

Lifting the electric motor

1. Refer to the Volkswagen Group brand repair guides for the specified mounting holes in the electric motor for the spindle (5) and the bolts (2). Check the mounting holes and clean if necessary.
2. Position the mount on the electric motor so that the spindle (5) and both bolts (2) can be inserted into the mounting holes.
3. Insert the bolts (2) into the locating bores. Screw the spindle (5) hand-tight into the locating hole.
4. Ensure that all electrical connections to the electric motor are disconnected.
5. Call in an assistant to operate the workshop crane and guide the electric motor. Carefully lift the electric motor.

7. For repair work on the electric motor without the VAS 6095 motor and gearbox holder, place the electric motor on a suitable surface. Remove the workshop crane from the holder. Remove the holder from the electric motor. For repair work on the electric motor with the VAS 6095 motor and gearbox holder, carry out the steps in the subsection "Attaching the holder to the VAS 6095 motor and gearbox holder".
8. Carry out further work as described in the repair guidelines.
9. After completing the repair work, ensure that all parts of the special tool have been removed.
10. Store the recording in a suitable place that is dry and clean.

Attaching the holder to the motor and gearbox holder VAS 6095

1. Secure the motor and gearbox holder VAS 6095 against rolling away. To do this, engage the parking brakes on the steerable wheels. Ensure that the steerable wheels are engaged during all work with the VAS 6095 motor and gearbox holder.
2. Actuate the safety catch lever and then press and hold the foot lever of the VAS 6095 engine and gearbox holder until the hydraulic cylinder of the engine and gearbox holder is in the lowest position.
3. If necessary, remove the clamping rails with spacer bolts or the universal support arm VAS 6095/1 as described in the operating instructions for the motor and gearbox bracket VAS 6095.
4. With the help of an assistant, position the holder with the workshop crane on the VAS 6095 motor and gearbox holder so that the round plate (4) of the holder rests on the flange plate of the VAS 6095 motor and gearbox holder.

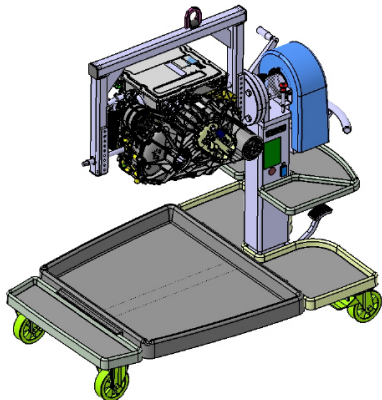


Figure 6 Holder and electric motor on the VAS 6095 motor and gearbox holder

5. Attach the round plate (4) to the flange plate. To do this, tighten the four M14 x 40 screws (3) with a torque of 50 Nm.

6. Remove the workshop crane from the holder.
7. Ensure that the mount on the VAS 6095 motor and gearbox holder can be rotated.



Caution

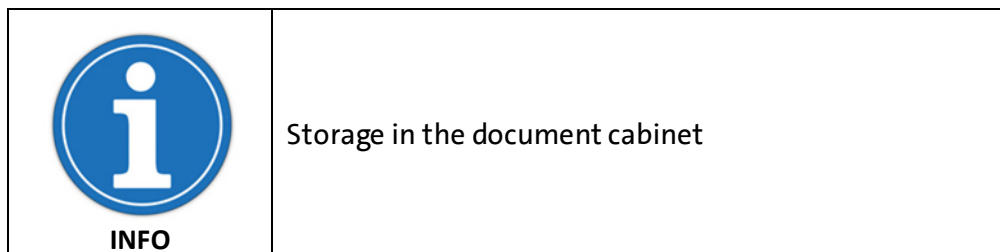
Crushing hazard!

Risk of crushing between load and VAS 6095 due to movement of the load. Position hands and feet so that there is no risk of crushing when moving the load.

8. Move the electric motor to the desired working height and working position (see the operating instructions for the VAS 6095 motor and gearbox holder).
9. Carry out further work as described in the repair guidelines.
10. After completing the repair work, ensure that all parts of the special tool have been removed.
11. Store the holder in a suitable place that is dry and clean.

Target group

The operating instructions are intended for the installer, user and operator as well as for maintenance and servicing personnel. It must be accessible to this group of people.



protective measures

- Observe all safety instructions
- Observe the company documents
- Wear close-fitting clothing, safety gloves and safety shoes.

Behavior in the event of accidents

- Use first aid kit for minor injuries.
- For serious injuries: Provide first aid and make an emergency call
- Inform your line manager

Safety during transportation and installation

- The applicable rules and regulations must be observed when transporting the components.
- Loads must be securely lashed down
- Crane systems may only be operated by trained drivers
- Attach load correctly

Inspection And Maintenance Instructions

The special tool Holder VAS 501 023 and the required accessories for visible damage such as signs of wear, deformation, breaks, cracks and corrosion damage before each use. Check all threads, rubber linings and axial bearings for damage. If defects are found, do not use the special tool under any circumstances and discard it immediately.

- If you have any questions, please contact the 1st level support responsible for you.
- Repairs may only be carried out by the manufacturer.
- Only dispose of the holder at an authorized scrap metal collection point.



Importa

Any modification of the product not agreed with the manufacturer voids all warranty claims. The manufacturer bears no responsibility for harm caused to individuals or objects from inappropriate use of the product.

Declaration of conformity

Declaration of conformity within the meaning of the Machinery Directive 2006/42/EC, Annex II 1A

Manufacturer:	PILZ GmbH Grenzstraße 60/62 03238 Finsterwalde Germany
Authorized representative for the compilation of technical documentation:	PILZ GmbH Grenzstraße 60/62 03238 Finsterwalde Germany
Product designation:	Holder
Product type:	Load handling equipment
Product number:	VAS 501 023

The following harmonized standards have been applied:

EN ISO 11148-4	Hand-held non-electrically operated machines
EN ISO 12100:2010	Safety of machinery - General principles of design – Risk assessment and risk reduction
EN 13155:2003+A2:2009	Cranes - Safety - Loose lifting equipment

Declaration of conformity

Brand:
Type: Holder VAS 501
023
Power:

We, Pilz GmbH, declare that this product complies with Directive 2006/42/EC and the standard EN ISO 11148-4. The technical documentation is available from Pilz GmbH.
In the event of a change to the product which has not been coordinated with us, this declaration loses its validity.

PILZ GmbH
Grenzstraße 60/62, 03238
Finsterwalde, Germany
Date: 28/02/2024

Signature:



Torsten Lehmann
CEO Pilz GmbH

Declaration of conformity

Brand:
Type: Holder VAS 501
023 Power:

We, Pilz GmbH, declare that this product complies with the Supply of Machinery (Safety) Regulations 2008 standard. Technical documentation is available from Pilz GmbH. In the event of a product change that has not been agreed with us, this declaration loses its validity.

PILZ GmbH
Grenzstraße 60/62, 03238
Finsterwalde, Germany
Date: 28/02/2024

Signature:



Torsten Lehmann
CEO Pilz GmbH



Declaration of conformity

Brand:
Type: Holder VAS 501
023
Power:

We, Pilz GmbH, declare that this product complies with the Regulation on Safety of Machines standard, Resolution No. 62 corresponds. Technical documentation is available from Pilz GmbH. In the event of a product change that has not been agreed with us, this declaration loses its validity.

PILZ GmbH
Grenzstraße 60/62, 03238
Finsterwalde, Germany
Date: 28/02/2024

Signature:



Torsten Lehmann
CEO Pilz GmbH