



INSTRUCTION AND ASSEMBLY MANUAL POWERKIT GO



**ALL POWER.
NO LIMITS.**

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Welcome.

Congratulations on buying an ADEN Powerkit. We are glad to welcome you today in the ADEN family. In order to enjoy your Powerkit for a long time, we kindly ask you to carry out all assembly steps carefully. Consider the service and care details and finally, to comply with safety regulations.

All the specifications of this instruction book are without obligation. The ADEN GmbH reserve the right for possible change of assortment (prices, colours, forms, technical specifications ...etc). We accept no liability for printing errors, deviations from illustrations and descriptions. Furthermore we ask you to note that the pictured models sometimes show products that are not part of the standard equipment and therefore not part of the scope of delivery.

All information in this guide is based on the available information about the properties of the described product and the appropriate safety regulations at the moment of printing

Please store this manual in a safe place for future reference. If you sell your ADEN Powerkit at a later stage, make sure that the buyer receives this manual.

The latest version of the assembly instructions is always available on our website **www.aden-sports.com**

Safety Instructions

By mounting the ADEN Powerkit Go, the bike turns into a pedelec. It is recommended that you only retrofit bicycles that meet the requirements recommended by us.

We also expressly recommend that you only ride with appropriate protective clothing (helmet, gloves and sturdy shoes). After a fall, it is particularly important to inspect the helmet and bike thoroughly for possible damage. Pay particular attention to the brake lines, the brakes and the drive.

In order to enjoy your new e-bike for as long as possible, we recommend that you follow our operating instructions exactly and that you carry out maintenance and service work regularly.

Due to the increased loads, the use of the Powerkit Go for "Enduro / Downhill" use is not recommended.

Poor or incomplete maintenance can significantly affect the functionality of the Powerkit.

All components, made of high-quality plastic or metal, only function properly in this combination. So don't make any changes to it. Any unauthorised modifications to the Powerkit or the battery will invalidate the product warranty. For maintenance, care and service, we are pleased to advise you.

Bike View and Scope of Delivery



(Bike is not included.)



Powerkit Go includes: belt ring incl. toothed belt, spoke clamps, drive unit, Powerpack battery incl. mounting plate, charger, thumb lever or twist grip, various small parts.



Needed tools:

- » Allen key size 2,5
 - » Allen key size 3
 - » Allen key size 4
 - » Side cutter
 - » Cable tie
-
- » Torque wrench 1-10Nm (optional)
 - » Assembly Aid (optional)

Assembly



Clamp the bike in a work stand or turn it upside down. Remove the rear wheel.

Depending on the number of spokes, the corresponding ring must be used to be assembled.

36 spokes -> 9 clamps

32 spokes -> 8 clamps

28 spokes -> 7 clamps



Attention: The ring is always on the left side (brake disc) assembled.

The belt ring is centered on the rear wheel and each spoke is positioned between two holes.

First fix the spoke clamp to the spokes with the 2 outer screws (Allen key size 2.5). Tighten the screws only slightly.



Fix all spoke clamps to the spokes.

Screw in the remaining screws a little so that the clamps can no longer jump down. The ring must still be easy to move on the wheel in order to center it later.



Install the rear wheel and the belt. The belt is "temporarily" fixed anywhere on the frame.

Make sure that the wheel can be turned easily and that no brake cable or anything else is rubbing against the belt ring.

Assembly-Note:

Make sure that the belt is not damaged when turning the rear wheel.



A cable tie is used to finally center the belt ring attached to the swing arm, place it on the ring and check the concentricity of the ring.

Assembly-Note:

Alternatively, the assembly aid was used beforehand



The belt ring is brought into the correct position by pressing or lightly tapping it with a blunt object. Check concentricity again and again by turning the wheel.

Repeat the process until centering is as precise as possible. (less than 0.5 mm is sufficient)



Screw in the remaining screws and tighten the T-key with 2 fingers (max. 1.5 Nm). Check all screws again.

Assembly-Note:

Tighten the outer screws carefully to prevent the ring from slipping.

The following assembly steps can be carried out independently of the assembly of the belt ring on the rear wheel.

We recommend mounting the drive unit on the built-in rear wheel.



To assemble the drive unit, the belt is first placed around the drive pinion.



Now place the belt over the belt ring.

The belt must lie completely on the teeth of the belt pulley

Then press the lower pulley lightly against the belt ring, then tighten the screw with a size 4 Allen key (approx. 3 Nm)



Correct belt tension:

7 teeth of the belt are in full contact with the drive pinion.

Assembly-Note:

The lower belt pulley is used to adjust the belt tension.

Too much belt tension: Increased resistance when turning the rear wheel and high levels of noise.

Belt tension too low: no power transmission -> belt jumps over.



Press the roller firmly against the belt ring and then tighten the screw with a size 4 Allen key (approx. 3 Nm)

Both surfaces of the roller must be in contact with the ring.

Assembly-Note:

By wiggling the motor, you can determine whether the roller is properly seated or not.

Now the motor will be attached to the chain stay using the pre-assembled motor bracket.



To do this, turn the drive unit clockwise until the motor holder rests on the chain stay.

Now put the belt around the chain stay and insert it into the lower slot of the motor mount.

Assembly-Note:

The velcro should be stretched as tight as possible.

If possible, place the supplied frame protection under the motor mount to protect the frame.



To align the motor holder, turn the rear wheel two turns and then tighten the clamping screw with a size 4 Allen key (approx. 3Nm)

Attention:

The maximum diameter for disc brakes is 20,3cm, if a larger brake disc is used, the motor would rub against the brake disc.



The assembly of the pedal sensor follows.

First the magnet is pressed against the pedal axle.

Assembly-Note:

Make sure that the area between the magnet and the pedal axis is clean.

Press the 2nd magnet on the pedal axle on the right side, so you always have a replacement with you!



The pedal sensor must be placed in such a way that the pedal axis passes the pedal sensor in the middle when the crank is turned. The distance between the pedal sensor and the magnet must be approx. 1 cm.

The pedal sensor is fixed to the frame with the supplied adhesive strip.



Attention:

Without a correct signal from the pedal sensor, the motor will NOT work!

Assembly-Note:

The sensor can also be mounted on top of the chain stay. Magnet and sensor must be kept clean in order to function properly.



The thumb lever is attached to the desired location on the Handlebars fitted, secured with a size 3 Allen key and laid along the frame towards the bottom bracket/drive unit.

Assembly-Note:

Note that a loop must be laid for the steering angle as with the other cables.

Yellow plug to yellow socket



Alternatively, the twist grip can also be used.

This is always mounted on the right side of the handlebar with a Allen key size 3.

The cables are laid as in the previous point.



Then lay the motor cable with the enclosed velcro strips along the frame in the direction of the battery.

Attention:

While driving, make sure that the cable does not interfere in any way, nor touch any moving parts.

This completes the assembly of the motor.

This is followed by the assembly of the "Powerpack battery"

To attach the mounting plate, the threads provided for the bottle holder on the bike should be used, if available. The position on the frame can be freely selected by using the existing holes in the mounting plate. Make sure, however, that you have enough space at the bottom to keep the motor plug free and that there is enough space at the top to be able to easily remove the battery.

An alternative fastening option, if there are no screw-in points, is to use the tensioning straps. These are not included in the scope of delivery of the standard set, but can be ordered from ADEN on request.

No holes may be drilled in very light / thin-walled frames and especially frames made of composite materials (carbon frames). In this case, the mounting plate may **ONLY** be attached to the frame using the additional straps. Otherwise frame breaks, falls and serious injuries can result.

Assembly



POWERPACK contains: POWERPACK battery, mounting plate including fastening screws, charger



Mount the mounting plate on the frame (bottle holder thread) using the screws provided.
Mask the frame with the protective film provided on the contact surfaces.



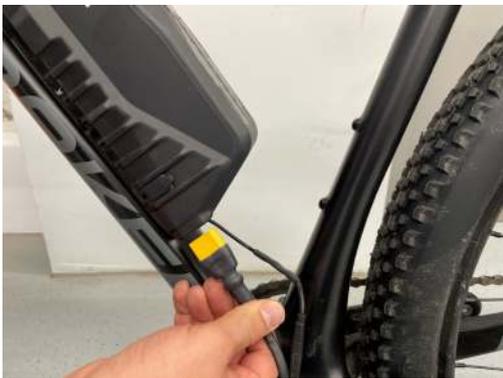
On bikes with full suspension, make sure that the damper does not hit the battery when it is compressed.

Press the battery onto the mounting plate and make sure that it sits correctly in the guide, then tighten the grub screw with a Allen key size 3.



On some bikes there is the possibility to mount the battery as shown in the picture.

If you need an additional battery to double the range, just send us a request.



Now insert the yellow plug from the motor into the battery.

The battery is switched on via the button on the front left.

It should not be switched OFF and ON too quickly.
The drive is only active approx. 5 seconds after the battery has been switched on.

It should always be ensured that the plug between the motor unit and the battery is firmly connected!



Before the first trip, the battery should be fully charged once.



Battery almost empty - please charge!

As soon as the battery level falls below 20%, the motor regulates the power down.



Commissioning

To activate the support via the thumb lever or twist grip, the crank must be moved (pedal sensor).

The engine started by gently pressing the thumb lever or the twist grip.

Attention:

When pedalling and giving "full throttle" at the same time, the front wheel could rise unintentionally.

Using the Charger



The charger is plugged into a socket connected and then the yellow plug with the Battery connected.



The red LED on the charger lights up - charging is in progress

If the battery is completely discharged, it takes about 2 hours until the battery is fully charged again.



The green LED on the charger lights up
- Charging completed / battery charged

The battery can now be unplugged.

For longer storage, it is recommended to have the battery charged to approx. 50%.

Care and Service

CARE

A bicycle with a power kit can be cleaned in almost the same way as a conventional bicycle. Before cleaning, unplug the battery and store it in a safe place. Clean the battery with a damp cloth. The bicycle can now be cleaned with a water hose. **Do not spray directly onto the drive unit.** Never turn the bicycle upside down when washing it. After cleaning, remove all remaining water from the drive unit.

SERVICE

Before every ride check:

- » All screws on the drive unit,
- » All screws of the frame bracket and,
- » All screws of the spoke clamps
- » All controls.

- » Remove dirt in the belt ring and on the rollers with a brush

At regular intervals (approx. every 10 operating hours) check:

- » The belt for wear or damage,
- » The spoke tension and
- » all cables for damage

In any case, maintain the ADEN Powerkit regularly. If you have any questions we can be reached by phone or email.

Terms and Conditions

Art. 1 Scope and contractual basis

These general terms and conditions apply to all services and deliveries only to consumers within the meaning of § 13 BGB. All agreements made between you and us in connection with the contract result in particular from these conditions of sale, our written order confirmation and our declaration of acceptance. Our offers are non-binding. We can accept contract offers within a period of 2 weeks. Illustrations and drawings contained in our brochures, advertisements and on our website are only approximate unless the information contained therein has been expressly designated as binding by us.

Art. 2 Prices, terms of payment, default, offsetting, right of retention

Unless otherwise stated in the order confirmation, all prices apply ex warehouse or factory including the applicable VAT, excluding packaging, freight, insurance, customs duties, foreign taxes, assembly, commissioning, etc. Other services are charged separately by agreement. Payment must be made in cash, by bank transfer or PayPal before the goods are handed over / dispatched. The seller bears the fees incurred for payment via PayPal. Payment orders, checks or bills of exchange are only accepted by special agreement and only on account of performance. If a payment term has been set for the customer's performance, he will be in default without a reminder if he does not pay at the specified time. The customer is in default even without a reminder if he does not pay within 30 days of receiving an invoice or an equivalent request for payment. While the customer is in default, we are entitled to charge default interest at a rate of 5 percentage points above the respective base rate of the European Central Bank (ECB). In this respect, we reserve the right to prove higher damage and to assert this. However, the customer is entitled to prove to us that we did not suffer any damage or significantly less damage as a result of the delay in payment. Our claims can only be offset against recognized, undisputed or legally established claims, as well as claims from notices of defects or counterclaims from the same sales contract. The buyer is only authorized to exercise a right of retention insofar as his claim is based on the same contractual relationship.

Art. 3 Delivery time, agreement on delivery, right of withdrawal, default

The surrender of the goods depends on the previous full payment of the purchase price. Our delivery dates or delivery deadlines are exclusively non-binding information, unless these have been expressly agreed as binding between you and us. Four weeks after a non-binding delivery date or a non-binding delivery period has been exceeded, the buyer can request us in writing to deliver within a reasonable period. If we culpably fail to comply with a delivery date expressly agreed as binding or a delivery period expressly agreed as binding, or if we are in default for any other reason, the buyer must set us a reasonable grace period in order to effect our performance. Part deliveries are permissible as long as they are reasonable. If the delivery of the goods has been agreed with the buyer, the goods will be dispatched by a carrier of our choice after receipt of the purchase price payment and all agreed costs and fees including transport costs. The transport costs result from the costs of the delivery service / carrier. If the customer so wishes, we will cover the delivery with transport insurance. The customer bears the costs incurred. Unless otherwise agreed, we are not responsible for delays in delivery due to force majeure or other circumstances for which we are not responsible, in particular traffic and operational disruptions, strikes, lockouts, shortages of raw materials. If, due to the circumstances mentioned, we cannot deliver within the agreed delivery time, the delivery time will be extended accordingly. If there is an obstacle to delivery for which we are not responsible, in particular within the meaning of Article 3 Clause 8 a., about which under Article 3 Clause 8 b. If the extended delivery period mentioned above, we are entitled to withdraw from the contract. We are entitled to withdraw from the contract in the event of incorrect delivery by third parties. In the cases of our right of withdrawal according to c. and d. we undertake to inform the contractual partner immediately about the unavailability of the service and to immediately reimburse any consideration already provided.

Art. 4 Transfer of risk

Unless otherwise stated in the order confirmation, delivery "ex works" is agreed. If pick-up is agreed, the calculation or notification of readiness for dispatch is equivalent to dispatch. Such goods are stored for the account and risk of the customer. Insurance is only provided upon express request

Art. 5 Claims for defects

The buyer's claims for defects for new items expire in two years, the buyer's claims for defects for used items lapse in one year. The regulations under 1. do not apply to claims for damages due to injury to life, limb or health or due to a grossly negligent or willful breach of duty by us or our vicarious agents. The subsequent performance takes place at the option of the buyer by eliminating

the defect (repair) or by delivering new goods. A reasonable period of time for subsequent performance on the part of the buyer must be granted. During the supplementary performance, the buyer is not entitled to reduce the purchase price or to withdraw from the contract. If the repair has been tried twice in vain, it is considered to have failed. If the supplementary performance has failed, the buyer is entitled to choose either to reduce the purchase price or to withdraw from the contract. Claims for damages due to a defect can only be asserted if the supplementary performance has failed. The assertion of further claims for damages in accordance with Art. 6 remains unaffected.

Art. 6 Liability for damages

In the case of our liability for damages, the following applies:
If the claims are based on an intentional or grossly negligent breach of duty by us, our representatives or our vicarious agents, we are liable for compensation in accordance with the statutory provisions.
If we are in default or we as well as our representatives or vicarious agents have culpably violated an essential contractual obligation, i.e. an obligation the fulfillment of which enables the proper execution of the contract in the first place and on which the contractual partner can regularly rely on compliance, and no case of liability according to the statutory provisions within the meaning of letter a. is present, liability is limited to the foreseeable, typically occurring damage.
So far below a. and b. nothing else is determined, our liability for damages is excluded. The exclusions and limitations of liability under item 1 apply not only to contractual, but also to other, in particular tort claims. They also apply to claims for reimbursement of wasted expenses in lieu of performance.
The exclusions and limitations of liability under Item 1 do not apply to any existing claims pursuant to Sections 1, 4 of the Product Liability Act or due to culpable injury to life, limb or health.
Insofar as our liability is excluded or limited, this also applies to the personal liability of our employees, workers, employees, representatives and vicarious agents.

Art. 7 No approval for road traffic; Disclaimer of liability

Our electric retrofit kits for bicycles are NOT approved for road traffic. We would like to point out that the bicycles equipped with our electric retrofit kits may only be used on areas where the StVO does not apply. In the event of claims arising from a violation of road traffic regulations (e.g. StVG, StVO, vehicle registration regulations, etc.), liability on our part is excluded. This does not apply in the case of Art. 6 Paragraph 1a, 3. This excludes the Powerkit Go, which complies with the rules for STVO conformity in Germany.

Art. 8 Additional and deviating regulations for international contracts

If the buyer is domiciled outside of the Federal Republic of Germany, the following regulations apply: We are not liable for the admissibility of the use of the delivered item as required by the contract according to the regulations of the recipient country. We are also not liable for any taxes incurred there. We are not liable for delivery obstacles caused by government measures, in particular import or export restrictions.

Art. 9 Securing retention of title

The ownership of the delivered goods remains reserved until all payments from the contract have been received, and in the case of an ongoing business relationship until all payments from this have been received. This also applies if our claims have been included in a current invoice and the balance has been drawn and recognized, as well as for future claims. The buyer is obliged to treat the delivered goods with care, in particular to store them properly. In the event of seizures and other interventions by third parties, the buyer must immediately notify us in writing in order to safeguard our rights (e.g. lawsuit from § 771 ZPO). If the third party is unable to reimburse us for the judicial or extrajudicial costs of a lawsuit in accordance with § 771 ZPO, the buyer is liable for the loss we incur.

Art. 10 Applicable law, place of performance, place of jurisdiction

This contract is governed by the law of the Federal Republic of Germany. For contracts with foreigners who do not have a domestic or EU place of jurisdiction at the time of the action, the place of jurisdiction is D-73271 Holzmaden. However, we reserve the right to sue at the buyer's registered office.

Art. 11 Severability clause

Should a provision of this contract be or become ineffective, this shall not affect the effectiveness of the other provisions of this contract.



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