additive®

ADDITIVE SPEEDLIFT EVO

Status April 2023

The gas damper repair stand for bikes and e-bikes

User Manual

Dear Customer,

Thank you for purchasing our Additive Speedlift EVO stand. This is a further refinement of our proven Additive Speedlift 1800 stand. Different holding clamps with 50mm diameter can be used with it. It's possible to work economically and ergonomically with our repair stand and it›s minimal effort to install. We hope you enjoy using it.

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HOW TO CONTACT US IF YOU HAVE ANY QUESTIONS

Additive Sportartikel GmbH
Bernauer Straße 77
83209 Prien am Chiemsee

Phone: +49 (0)8051 96576 0
Fax: +49 (0)8051 96576 29
E-Mail: Info@additive-bikes.com

SAFETY NOTES

Before using the machine, please read the instruction manual carefully and thoroughly to make sure you've understood everything.

Please heed the safety instructions and recommendations in the manual. So you can operate the machine safely and optimise its performance.

The Additive Speedlift is only designed to lift bikes up to a maximum of 50kg total weight. Exceeding this maximum load is strictly forbidden as it could cause damage or lead to breakage. This is clearly indicated on name plate also.

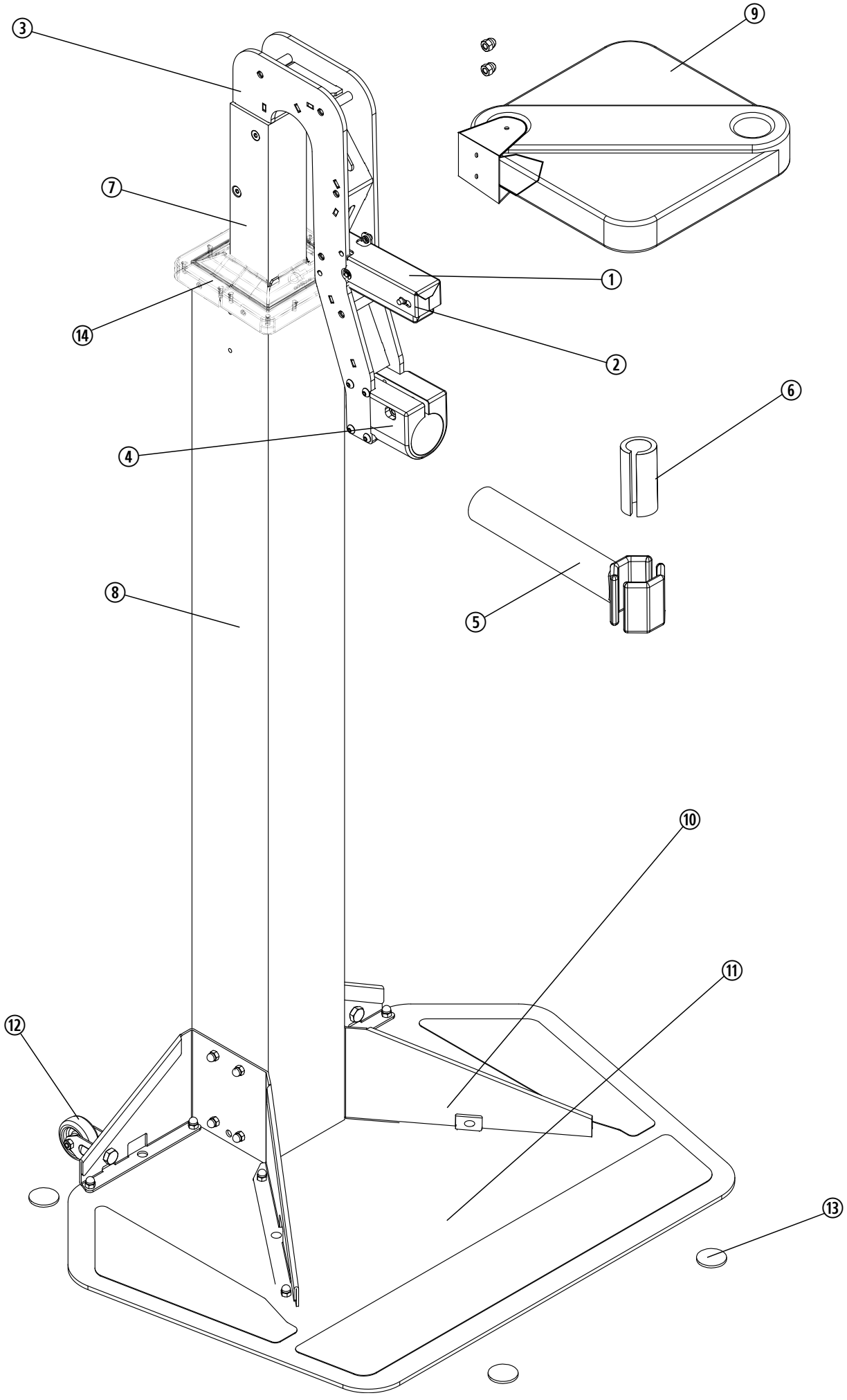
Do not attempt to use the stand to lift anything other than bikes and do not allow anyone to climb up onto the Additive Speedlift.

For bikes over 35kg the operator may overexert himself. This is not recommended for a one-man bike shop. Additional loads which may cause the stand to topple over are not allowed. If, due to the special shape of the frame or oversized wheels, it looks like the stand is becoming unstable (danger of toppling over), then stop using it.

Before use, a locking bolt in the operating unit must be unlocked («lock open» symbol). To prevent unintentional or incorrect operation, this should be locked again («lock closed» symbol) if the unit is not going to be used for a longer period of time. When the release button is pressed, the holding arm together with the entire head section, moves upwards at a relatively high speed (approx. 0.3 m/sec = 1.2 km/h). Keep parts of your body, especially your head and face - away from the moving parts.

Additive Sportartikel GmbH accepts no liability for damage caused by improper use of the products. If the operating instructions, in particular safety instructions, are not observed, technical modifications are carried out, which are not agreed with the manufacturer, or non-original spare parts are used, then the warranty will automatically become void. The manufacturer accepts no liability for any resulting damage/s.

LEGAL NOTICE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PRODUCT DESCRIPTION

a. Overview of your Additive Speedlift EVO

① Operating unit / Release button

② Locking pin

③ Head section

④ Cylindrical mount (for arm/clamp)

⑤ Arm/holding clamp (*ELITE, VAR, Parktool* or similar)

⑥ Rubber insert for dropper seatposts (only necessary for *ELITE*)

⑦ Inner guiding tube

⑧ Outer guiding tube

⑨ Tool tray

⑩ Supporting brackets

⑪ Base plate

⑫ Fixed castors

⑬ PTFE sliders

⑭ Cover trays

b. Scope of use

The Additive Speedlift EVO is an assembly stand for bikes and e-bikes for bike dealers, their trained mechanics and experienced hobby mechanics. With the help of a supporting arm / holding clamp bikes and e-bikes can be lifted up to the desired repair height with very little effort; up to 800mm hoisting height is possible.

The base plate, made from stainless steel, can be used on industrial flooring or rubber mats. For flooring which is susceptible to scratching large PTFE furniture rollers are mounted.

c. Scope of delivery

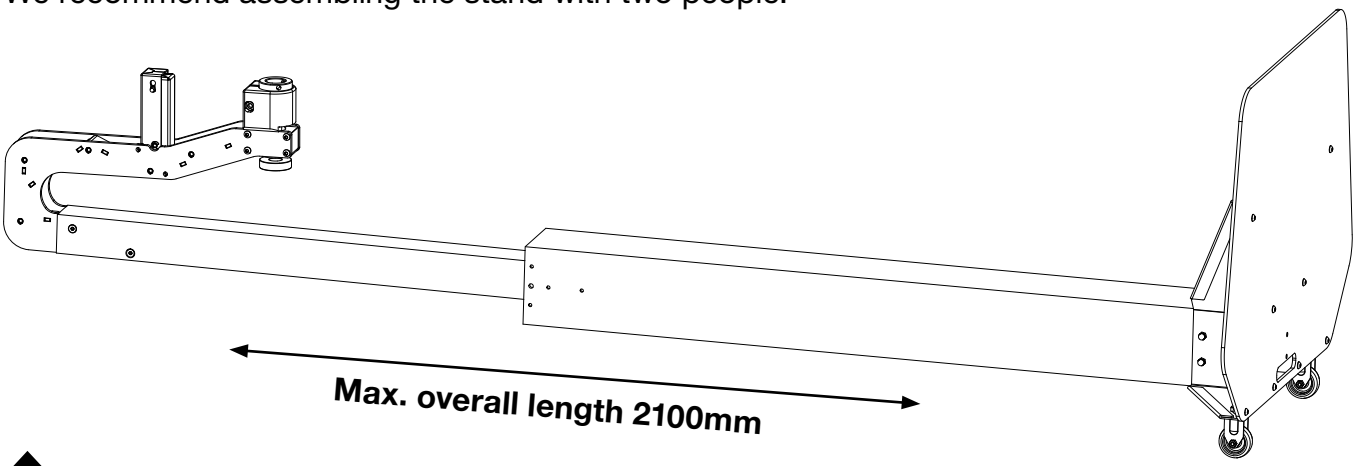
The Additive Speedlift EVO is always delivered in two parcels and can be sent via normal parcel delivery companies. The total weight is approximately 40kg.

Parcel 1: Guide tubes with head section ③, clamp holder ④, release unit ①, holding arm/clamp ⑤, screw set (1x bolt, 12x pan-head screws M6x14, 8x cheese-head screws M6x20, 16x cap nuts).

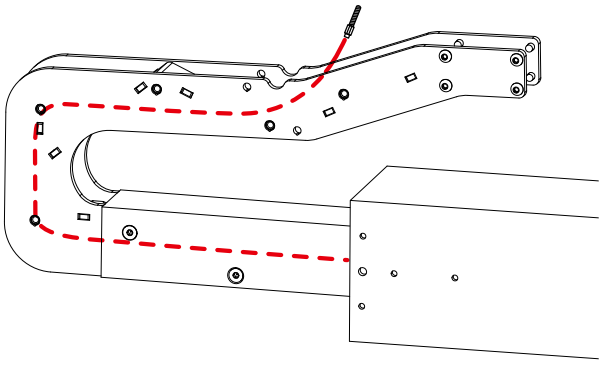
Parcel 2: Base plate ⑪, support brackets ⑩, operating instructions; Accessories: fixed castors ⑫, tool tray ⑨, fitted PTFE gliders ⑬, rubber insert for ELITE clamp ⑥. The accessories may be subject to a charge depending on the country specification or the scope of delivery offered.

ASSEMBLING YOUR ADDITIVE SPEEDLIFT EVO

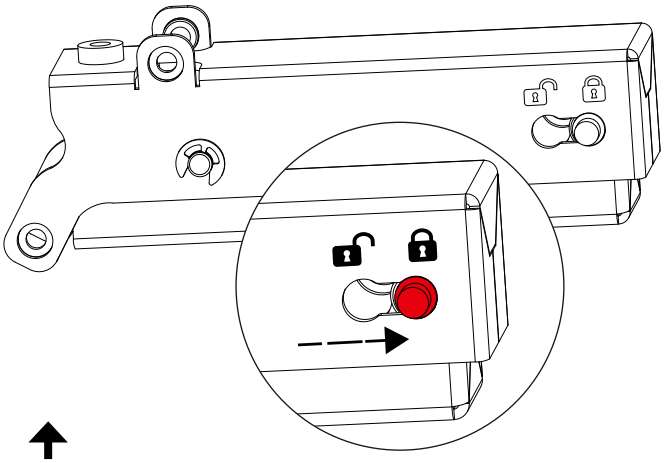
We recommend assembling the stand with two people.



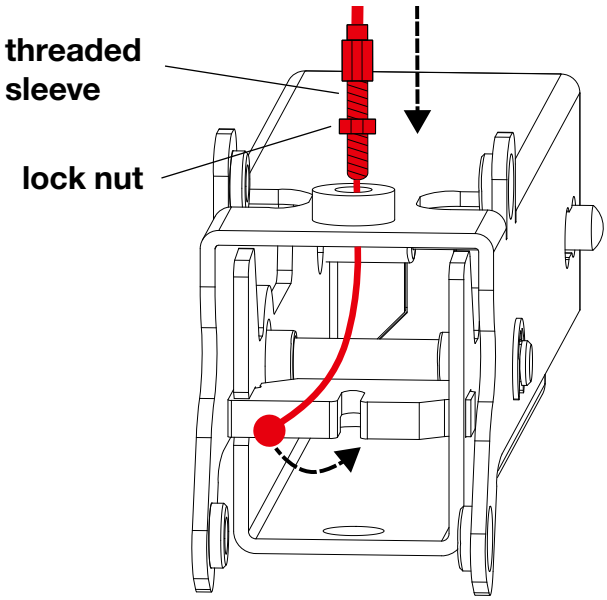
Beware! The piston rod can extend a maximum of 800 mm (max. overall length 2100 mm). Select the location for the assembly so that the repair stand can be laid out completely.



Remove the stand without the base plate from its packaging, place the back of the stand on the floor.

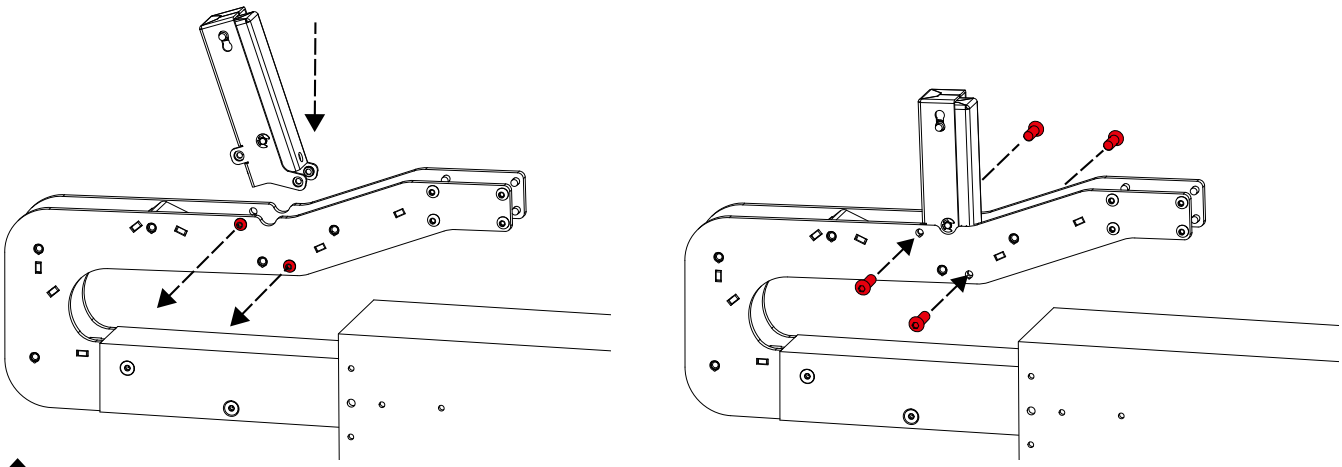


Now take the operating unit and move the locking bolt into the locked position (“Lock closed” symbol).

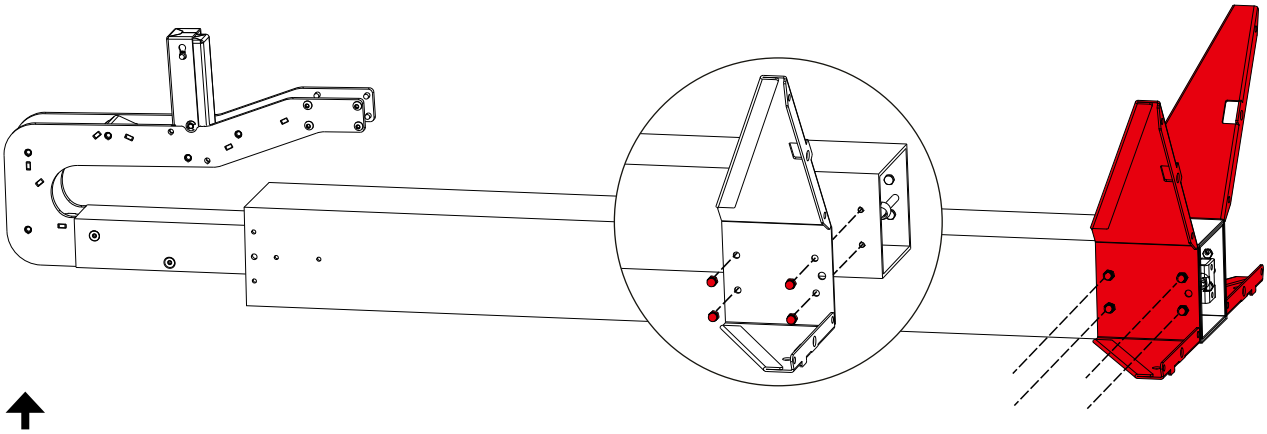


Then screw the threaded sleeve of the Bowden cable in the into the thread of the actuation unit in the direction of the arrow until the ball nipple can be inserted.

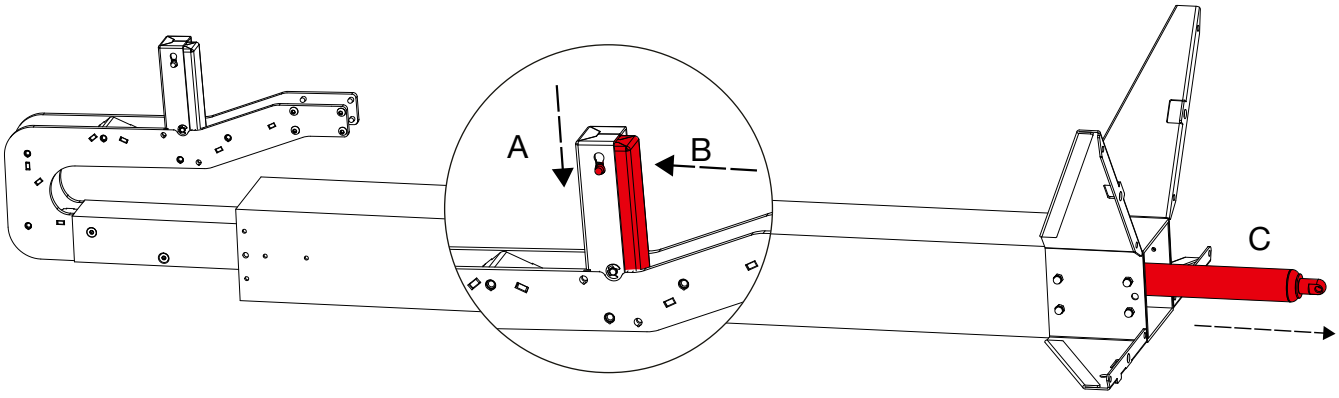
Adjust the Bowden cable:
By unscrewing the threaded sleeve, bring the cable under tension until the stand extends independently. Now reduce the tension until the movement of the stand stops and secure the position of the threaded sleeve with the lock nut.



Now insert the release unit into the head unit and then tighten loosely with 4 oval-headed screws (M6x14). If necessary, fine-tune the tension of the Bowden cable.

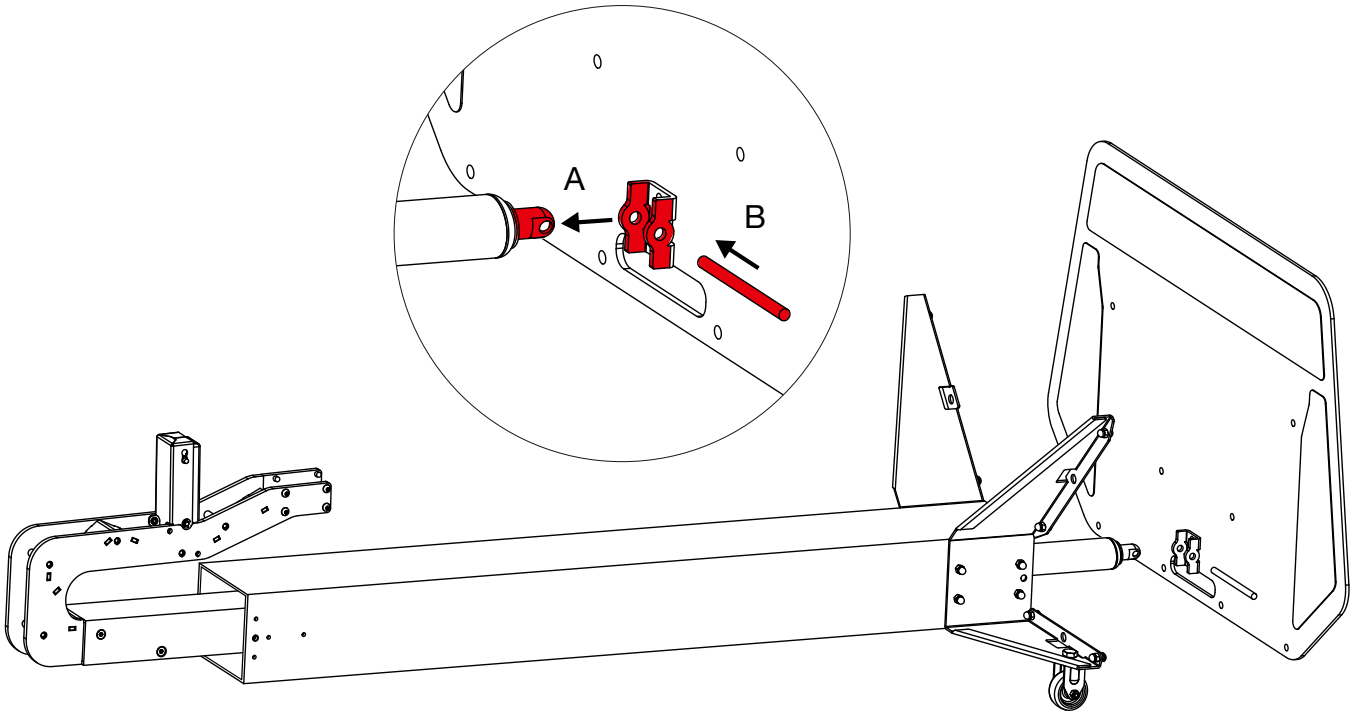


Fix the right/left support bracket and the U-sheet tool tray with cheese-head screws and washers (8 each).

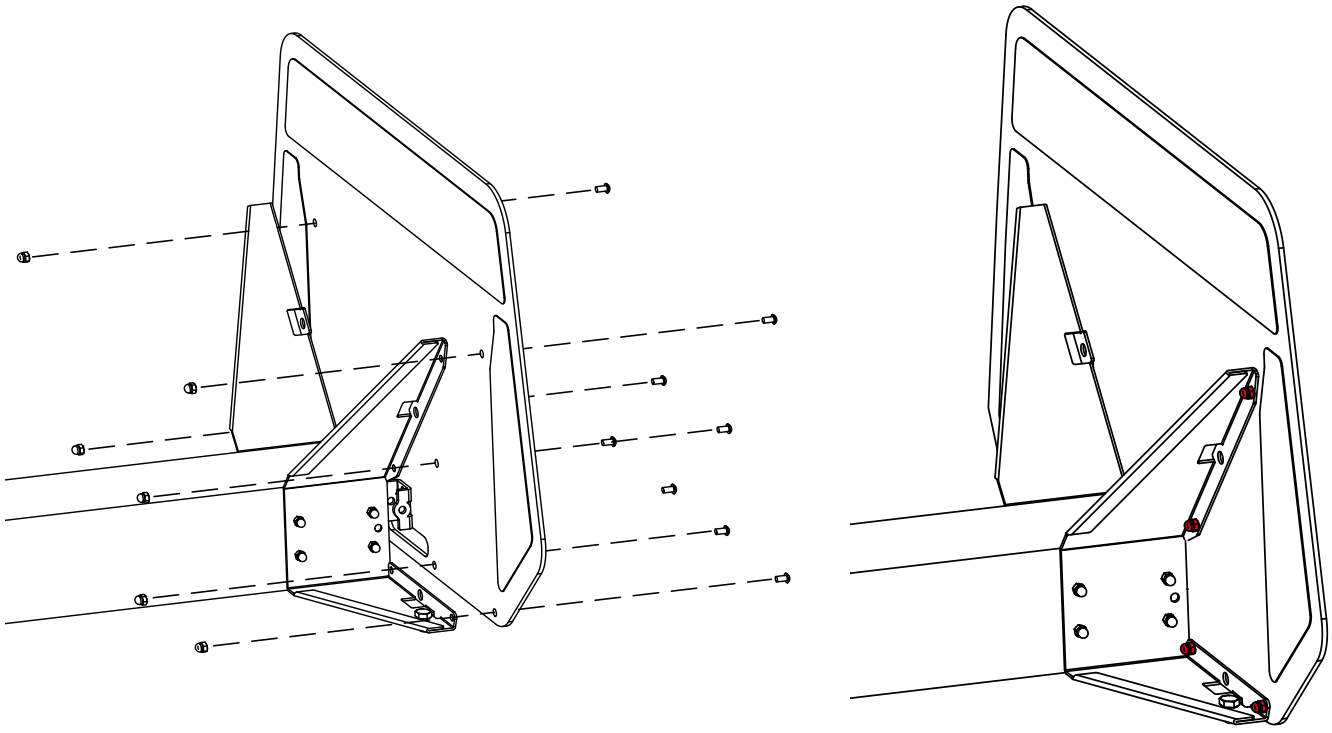


Now loosen the locking pin ③ and press the release button ② briefly to extend the gas damper approx. 200mm.
Then close the locking pin ② again (“lock closed” symbol) to prevent the button being released unintentionally again and the gas damper being extended even further.

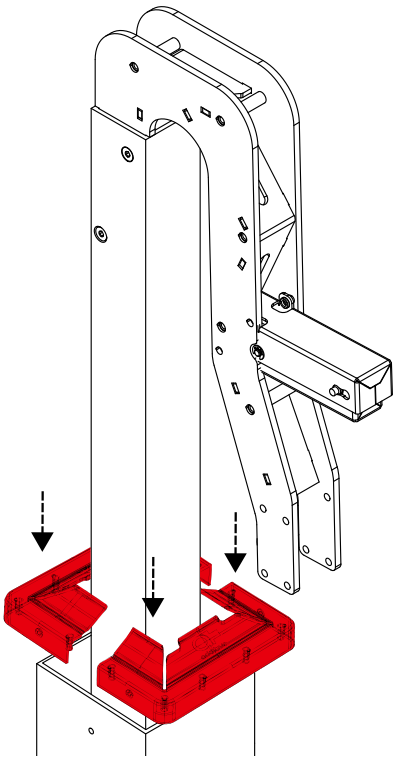
If the piston rod of the gas damper is extended too far, do not try to push it back in again. This could result in the piston rod being bent. Continue assembly in this position.



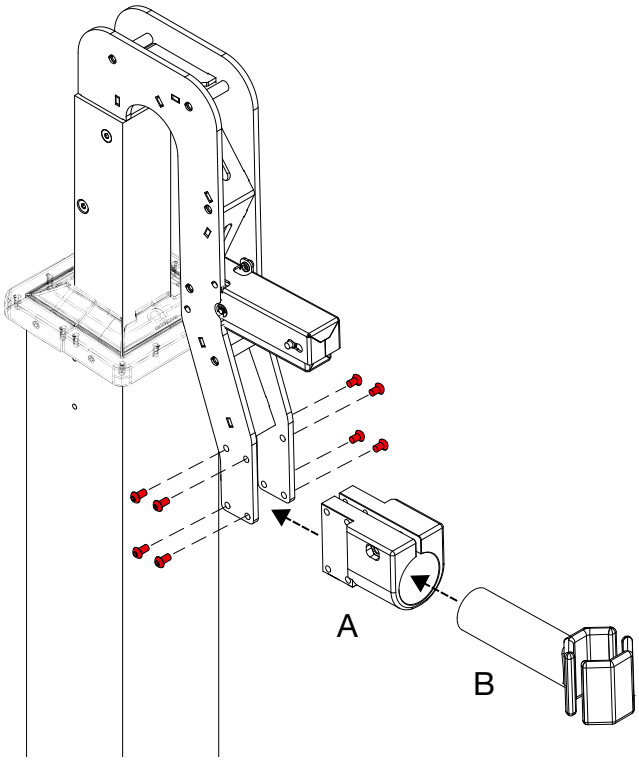
The base plate ⑪ is heavy. Holding onto it firmly, take it out of its packaging, place it vertically on the floor on its back and bring the pre-assembled guiding tubes including the entire head section into position on the base plate.
Now insert the bolt (d=8mm) through the base plate and into the gas damper and align centrally. Bolt does not require any axial locking.



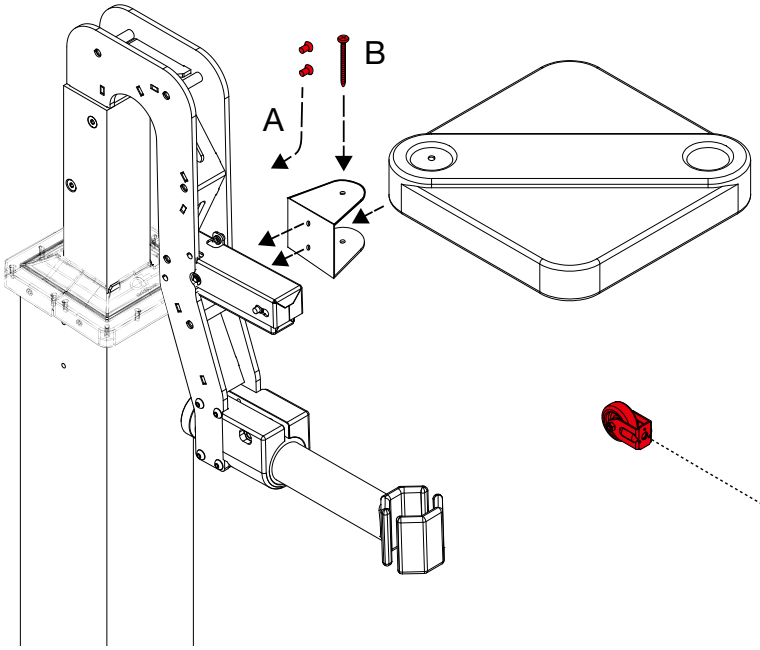
Bring the base plate ⑪ into its final position to the supporting brackets ⑩ and then screw them to each other using the oval-headed screws and cap nuts. Then screw the supporting brackets to the external guiding tube.



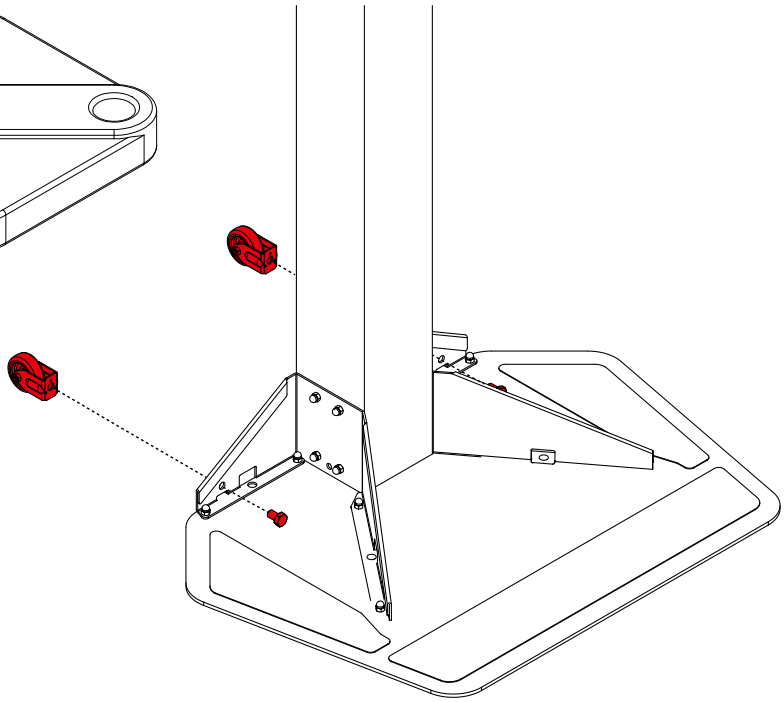
Now set up the Speedlift in the appropriate place in the workshop. Place the two cover shells ⑭ with the logo facing forwards and backwards on the tube from above and click them on. If necessary, use a soft-face hammer to help with careful blows.



Insert the mount ⑤ for the retaining clamp into the head unit and screw it into place with 8 cheese-head screws (M6x20). Insert the retaining arm / clamp ⑤ into the cylindrical mount and tighten the clamping lever.



Fasten the U-sheet with cylinder head screws M6x14 and washers (2 each), push the tool tray into the U-sheet and screw it with cylinder head screw M6x90.



Mount the fixed castors ⑫ with the M10x16 screws provided.

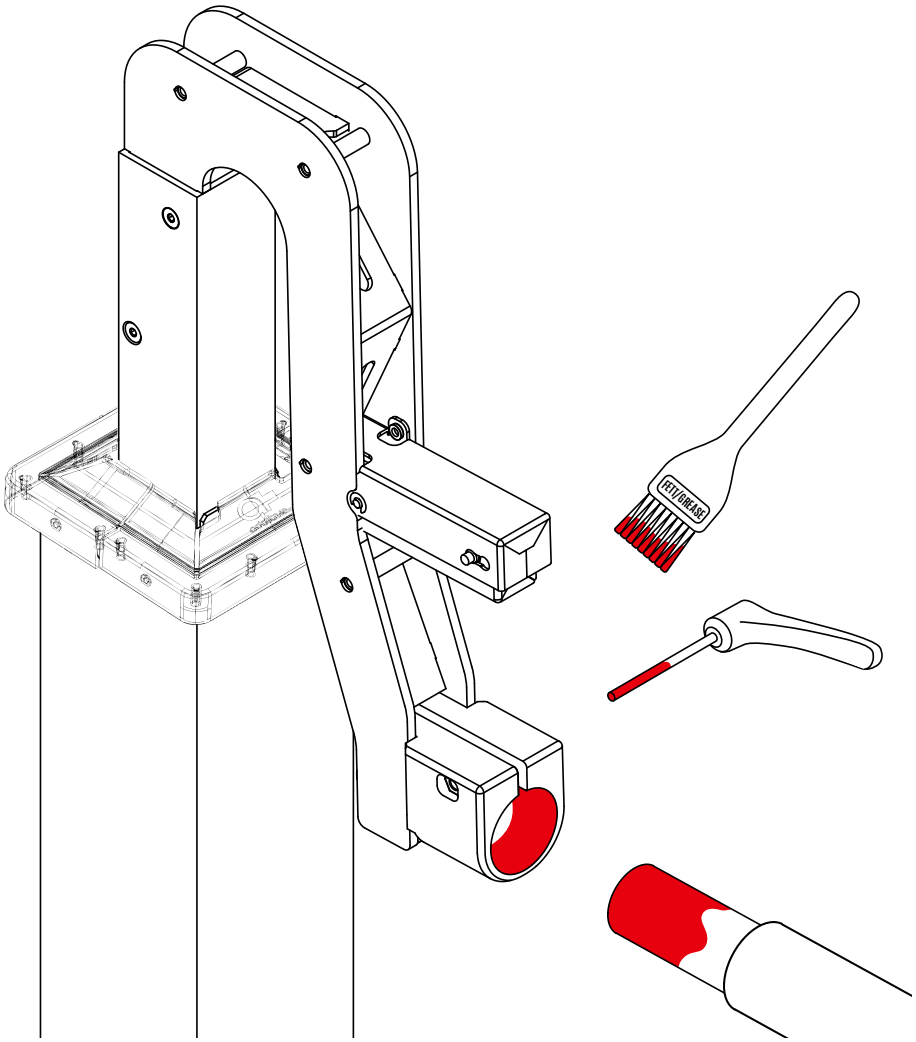
GETTING STARTED / OPERATION:

Always stand in front of the Additive Speedlift repair stand when you are using it. Place one hand on the supporting arm/holding clamp ⑤ or on the bike frame, and press the release button (2) with your other hand, to release the power of the gas damper (on the inside of both the guiding tubes).

Depending on whether you are lifting a light or heavy load, you need to assist the stand a little bit to raise or lower the bike.

To activate the unit remove the safety pin from the release button again.
If the head section of the stand has been raised up again, then the head unit with the holding clamp needs to be brought back down to the start position again by pressing the release button and pulling downwards vigorously.
To get used to the working speed of the head section moving upwards release the button now and let it travel upwards again without any load.
Then bring it back to its starting position again by pulling downwards vigorously.

For normal use, raising the bike up/down, open the front clamp lever and adjust the position of the clamp jaws to the position of the seatpost. Now open the clamp jaws of the holding clamp and clamp the bike by its seatpost. Press the release button and depending on the weight of the bike, let the bike travel up to the desired position with less or more assistance.



To work particularly efficiently, set the holding clamp almost vertically and lift the bike up by its saddle and fasten the clamp.

Before putting your Speedlift EVO into operation, the 50 mm inner diameter of the claw holder, the contact surface and the screw of the clamping lever has to be greased!

Notes about working with holding clamps:

The clamping force of the holding clamps (e.g. *ELITE* holding clamp) is high. It's ideal for clamping the bike by the seatpost. For dropper seatposts, it's recommended to use the rubber insert ⑥ when using the *ELITE* clamp.
Even the area of the seat tube (where the seatpost) is also very robust. Especially for carbon frames it is not advised to clamp them by the top tube or down tube, as this can damage the frame.
No compensation for damage for this can be claimed from Additive Bikes.

When loosening bottom brackets or other work which requires high forces, we recommend using so-called impact wrenches / drivers. The components can be loosened with the lowest load on the frame and other components.

After removing the bike, secure the release button ① with the safety pin ② again to stop it moving accidentally.

Safety note! Not every retaining clamp has an axial safety lock! This means that when the clamping lever is released (to swivel the bike) the retaining clamp is released and may also slip out towards the front. When clamping the bike, make sure that the claw is inserted into the clamping mount as far as it can go and then lock it again with the clamping lever.

MAINTENANCE

Do not use any lubricants on the piston rod or on the roller guides. These are maintenance free! If you do so, you may damage the seals or plastic rollers.

To ensure the stand remains free from defects, carry out the following maintenance:

a. Weekly maintenance

- For slip resistance, check the anti-slip surface and the floor plate for cleanliness
- Check the rubber sleeve and protective jaws of the holding clamp for damage. (to avoid damage to the bicycle)

b. Yearly maintenance

- Check all screws are tight enough and if necessary, re-tighten them.

GENERAL NOTES

Ensure that all personnel using the stand are aware of how to use it properly and that they have understood the user manual.
Should any unsafe conditions occur whilst using the stand, then stop working, find the cause or contact your service partner.
To replace any components always verify and follow the respective steps given by the service partner or observe the respective written instructions.

EXPLANATION OF NAME PLATE

IMPORTANT NOTES ABOUT OUR GAS DAMPERS

1. Gas dampers have a very high internal pressure (up to approximately 300 bar). They should not be opened without instructions!

2. Our gas dampers are maintenance free! Do not grease or oil the piston rod etc.

3. Our gas dampers have been designed, constructed and tested for highest requirements and greatest possible reliability.

4. All our gas dampers bear the warning sticker from the factory “Do not open, high pressure”, the part number and the date of manufacture. If this information becomes unreadable (removal of sticker, painted over or other external influence) the the guarantee for damage arising from this becomes void. Warranty services are no longer possible.

5. Damping characteristics can cause vibrations which find a resonance body in the application and cause noises.

6. Our gas dampers can be used in an environment with temperatures between -30°C to +80°C. The environment temperature has an effect on the gas damper characteristics. Do not overheat or place gas dampers in an open fire! Other environmental conditions may have a considerable effect of the length of life.

7. Should gas dampers be visibly damaged by an external force (accident, collision, extreme overloading), broken or deformed connecting parts, bent piston rod, dented cylinder etc. then the pressure must be released before any disassembly or other handling. To do this, please request our disposal instructions.

8. Only our gas dampers have an integrated grease chamber, which ensures assembly regardless of position.

9. The piston rod is very well-protected in our repair stand. However it should be protected from knocks, scratches and dirt, especially paint or other aggressive or corrosive media. The cylinder tube may not be deformed. Damage to the surface will damage the sealing system.

10. Our gas dampers can be stored in any place. It is not expected to lose pressure due to long periods of storage. There are no negative empirical values. However, there may be some stickiness effect which requires a higher amount of force when used for the first time (starting force).

11. Disposal / Recycling:
    Gas dampers are mainly made of metal and can be recycled. However, the gas dampers must be de-pressurized beforehand.
    Please request our recycling/disposal instructions.

EC DECLARATION OF CONFORMITY

The manufacturer hereby declares:

Additive Sportartikel GmbH
Bernauer Straße 77
D-83209 Prien am Chiemsee, Germany

that the machine described in the following complies with the relevant health and safety requirements of the respective EU directives due to its design and the version we have introduced to the market.

If the machine is modified without our consent, this declaration will lose its validity.

Product description:

Additive Speedlift EVO

Model year:

2019 / 2021

Relevant EU directives:

2006/42/EC

Applied harmonised standards:

EN ISO 12100:2011-03
DIN EN 1494:2009-05

Authorised representative for the compilation of technical documentation:

Christian Hefter,
Additive Sportartikel GmbH,
Bernauer Straße 77,
D-83209 Prien am Chiemsee, Germany

Prien am Chiemsee, Germany, 09.11.2018

Christian Hefter
Managing Director / Additive Sportartikel GmbH

MANUFACTURER'S DECLARATION

The manufacturer hereby declares:

Additive Sportartikel GmbH
Bernauer Straße 77
D-83209 Prien am Chiemsee, Germany

that the machine described in the following complies with the relevant health and safety requirements of the respective EU directives due to its design and the version we have introduced to the market.

Product description:
Additive Speedlift EVO

Model year:
2019 / 2021

Operating is forbidden until it has been established that the machine (supporting arm/holding clamp) installed on this machine complies with the provisions of the Machinery Directive.

Relevant EU directives:
2006/42/EC

Applied harmonised standards:
EN ISO 12100:2011-03
DIN EN 1494:2009-05

The technical documentation has been prepared in accordance with 2006/42/EC Annex VII/B.

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Prien am Chiemsee, Germany, 09.11.2018

Christian Hefter
Managing Director / Additive Sportartikel GmbH

REPAIR STAND FOR BIKES & E-BIKES

Powerful yet compact

The Additive Speedlift EVO is a gas pressure-assisted assembly stand with holding claw. At the push of a button, a force of approx. 180 N is released and heavy e-bikes are brought into the desired position in seconds with little effort. Light bikes, on the other hand, even float upwards on their own – all that is needed to lower them is a slight downward pull.

Key facts:

- Very fast speed to help you work efficiently
- No energy costs, no danger of tripping over any cables, or foot pedals.
- XL lifting height 800 mm infinitely variable, clamping height approx. 1800 mm for ergonomic working.
- Powerful design: for bikes up to 30 kg, maximum load 50 kg.
- Insensitive to dirt, minimum maintenance required
- Comes partially pre-assembled, installation in 30 minutes
- Best price / performance ratio
- Made in Prien am Chiemsee, Germany

ADDITIVE BIKES + PARTS

Additive Sportartikel GmbH
Bernauer Str. 77
83209 Prien a. Chiemsee
Germany

Phone +49 8051 96576 0
Fax +49 8051 96576 29
info@additive-bikes.com
additive-bikes.com

additive®