

## Installation Instructions Art. No. 429077H Gas Spring for Dental Stool KaVo Physio 5006

The following instructions describe the process for replacing the gas spring on the KaVo Physio 5006 dental stool.

dental stool KaVo Physio 5006

DKL Replacement  
Gas Spring 429077H



### Preparation

Lay the dental stool on a lightly padded surface (e.g., cardboard, towel).

**IMPORTANT!** When lifting the dental stool, always hold it from the bottom and by the backrest. This prevents the gas spring from becoming dislodged!

The gas spring is only inserted and not screwed in.

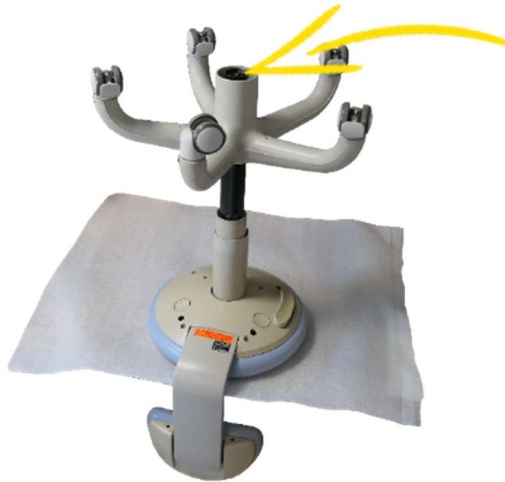
Especially with a newly installed gas spring, it can slip out if it's not yet firmly seated from use, and then it will need to be reinserted.

The gas spring will only be seated firmly enough not to slip out when lifting after repeated and sustained use (by sitting on it).



## Remove the Retaining Clip

The gas spring is secured with a retaining clip underneath the stool.



Lift the retaining clip's bracket with a screwdriver, slide the retaining clip down, and remove the washer.



## Unscrew the Seat Cushion

Unscrew the 4 screws from the bottom with a 4mm Allen key and remove the seat cushion.

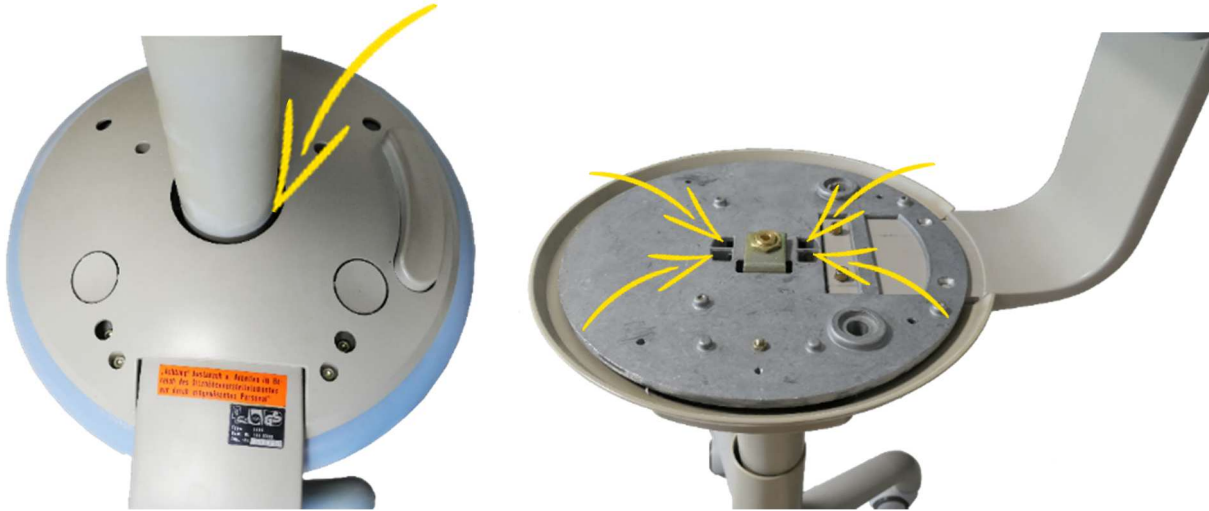


**Important!** When turning the chair, always hold it at the top and bottom so the gas spring doesn't slip out!



## Loosen the Tube Cover

The tube cover is secured by clamps on the underside of the seat.



Push aside the tube cover clamps in the four openings with a screwdriver.

**Important!** Press carefully. On older stools, the clamping edges may have partially broken off. If the cover has sagged on the stool, it's likely that all edges have already broken off.

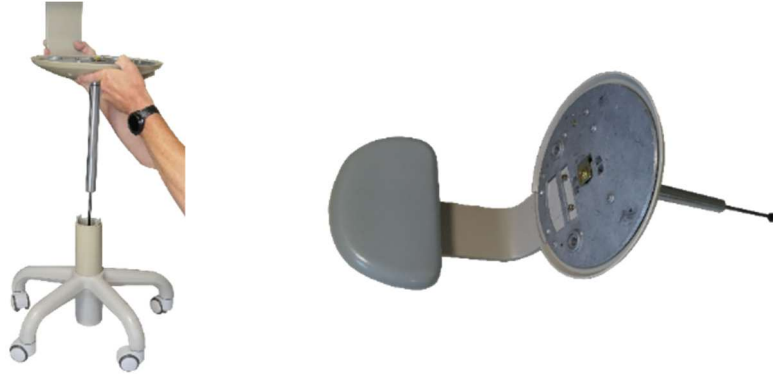


The tube cover will slide down from the underside of the seat once loosened.



## Remove the Old Gas Spring

After loosening the tube cover, you can lift out the seat plate with the gas spring.



The tube cover is pushed up and can be removed.

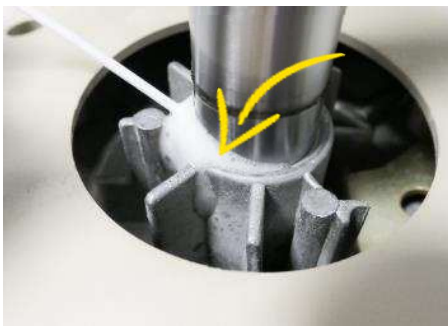


At the bottom end of the gas spring, there are four attachments. These usually lie in the gas spring receptacle and must be shaken out. You won't need these parts anymore. Afterward, thoroughly wipe clean the opening of the gas spring receptacle.



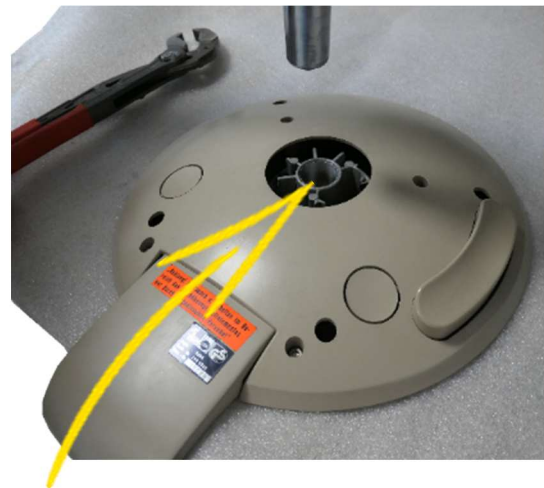
## Remove the Old Gas Spring

Spray some oil spray around the gas spring receptacle in the seat frame and let it soak in. You typically won't be able to remove the gas spring with a pipe wrench from a hobby workshop. Therefore, it's recommended to use a professional pipe wrench. The longer the handle, the higher the leverage. Recommendation: a handle length of at least 350 mm (14 inches).



Grip the gas spring with the pipe wrench and try to loosen it from its clamping by moving it back and forth. This is laborious and doesn't always succeed on the first attempt.

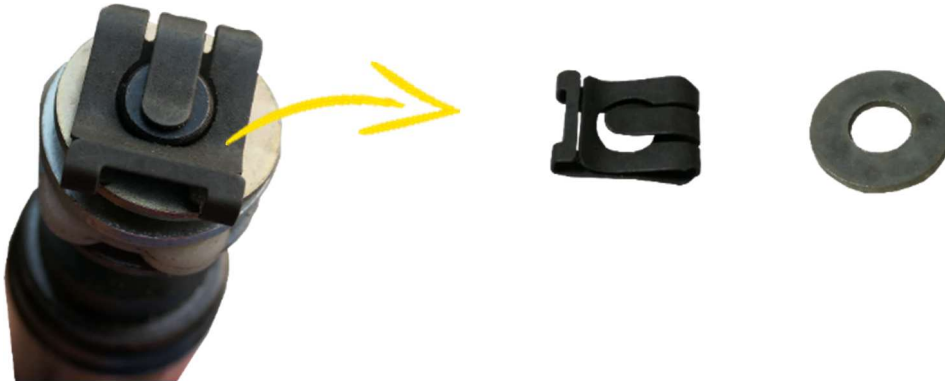
**Important!** Lay the seat frame on a padded table surface with the backrest facing downwards. The gas spring is often very tightly stuck, and loosening it is easier if a second person stabilizes the seat frame with the backrest.



Afterward, wipe off any excess oil spray in the clamping opening with a cloth.

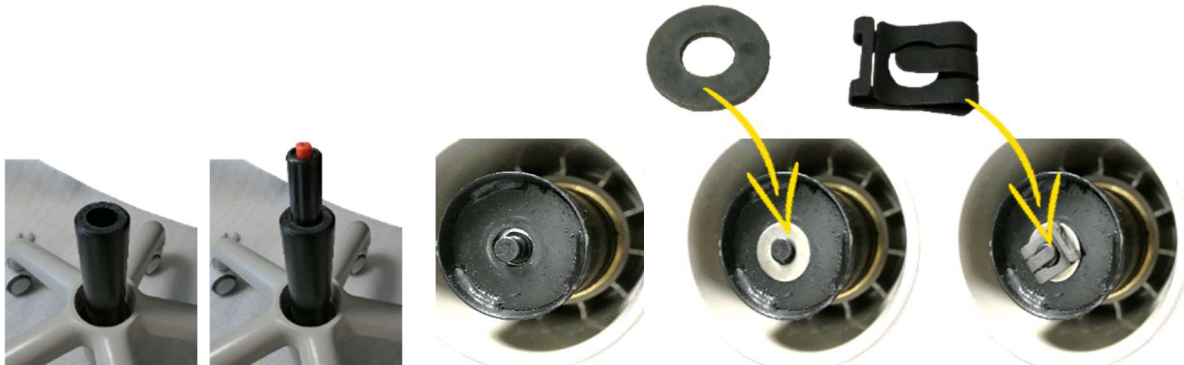
## Preparing the New Gas Spring

At the top end, remove the retaining clip and the washer.



## Inserting the New Gas Spring into the Wheelbase

Insert the gas spring into the wheelbase receptacle and reattach the washer and retaining clip.



Replace both tube covers.



## Installing the New Gas Spring into the Seat Plate

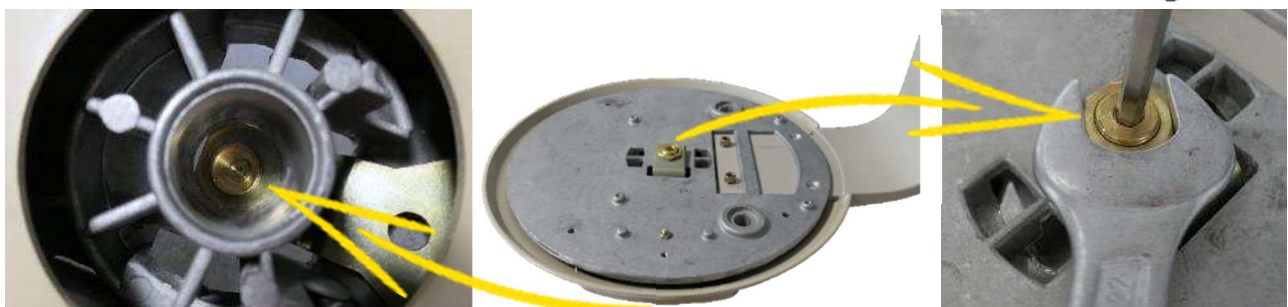
Place the seat plate onto the gas spring. Make sure the clamping hooks of the tube cover are aligned with the clamping edges. Then, carefully snap the tube cover clamps into place. **Important!** Due to the age of the stools, the tube cover's clamping edges are prone to breaking, so you should handle them with care.



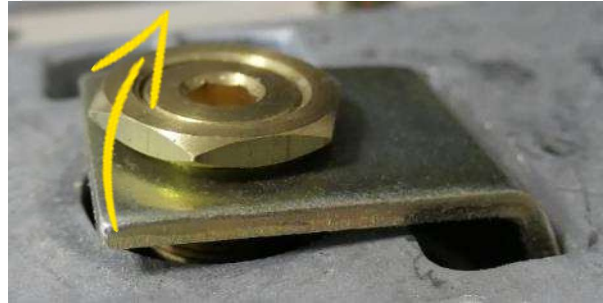
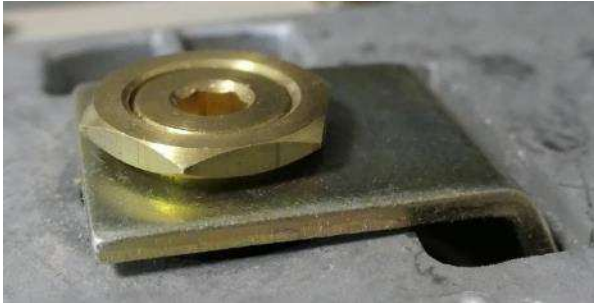
## Adjusting the Gas Spring Release

To adjust the pressure point for the gas spring release, you'll need to set the release lever correctly. You'll need a 22mm open-end wrench and a 6mm Allen key.

The release mechanism that activates the gas spring's pressure point is located under the seat plate, and you can adjust the pressure point from the top of the seat plate.

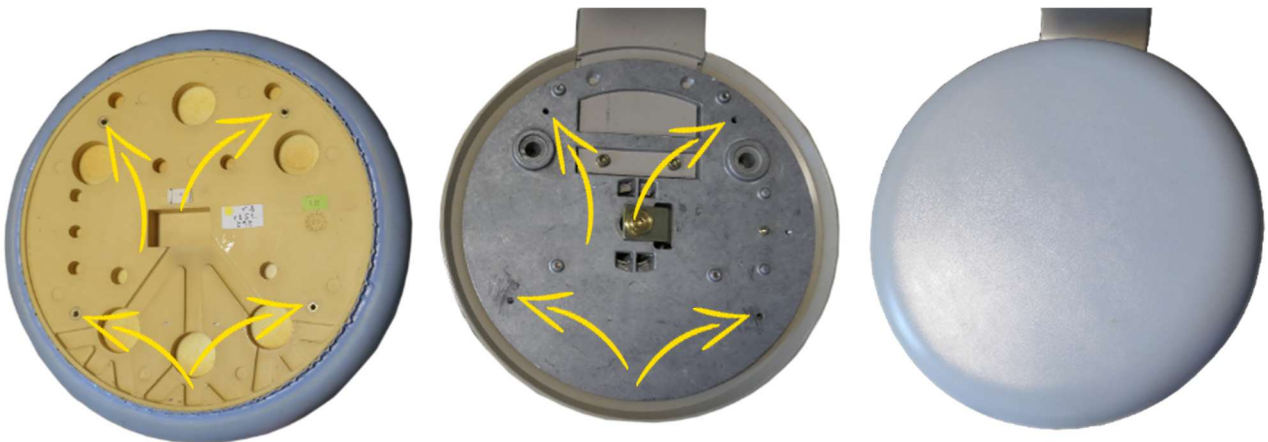


To adjust the pressure point for the gas spring release, first loosen the lock nut with a 22mm open-end wrench. Then, use the Allen key to screw in the release screw until you feel a slight resistance. The release mechanism will lift slightly during this process.



With this setting, test the gas spring's release mechanism. If necessary, adjust the setting in quarter-turn increments using the Allen key, continuing until the release setting is correct. Then, hand-tighten the lock nut.

Next, place the seat cushion back on. To do this, hold the cushion next to the seat plate and pay attention to the screw alignments. The distance between the rear screws is slightly smaller than that of the front screws. With this orientation, place the cushion onto the seat plate and initially just hand-tighten the screws.



Thoroughly test the gas spring release mechanism again. Test at least 10 releases by sitting on the stool, and while sitting on the dental stool, move the stool back and forth and rock it a bit. This ensures that the inserted gas spring is firmly seated in its receptacle.

If the gas spring doesn't release as desired, loosen the seat cushion again and adjust the release in quarter-turn increments of the Allen screw, then retest.

Once the gas spring's release setting is correct, fully tighten the 22mm lock nut and then securely tighten the seat cushion.

## Transport and Lifting Instructions

**Important!** When transporting dental stools, always remember that the gas spring is only inserted. Therefore, always hold the stool by the foot ring and the armrest, and never transport it lying down, to prevent the gas spring from coming loose. Especially with new gas springs, the ends of the gas springs are not yet sufficiently wedged in from use and could become dislodged. After prolonged use, gas springs wedge themselves in and cannot be easily dislodged.



## Further Questions and Assistance

Do you need any other parts for your dental stool? Castors (Art. No. DKL250018), or would you like new upholstery in the colour of your choice for your dental stools or dental units?

You can find information about our product range at [www.neuepolster.de](http://www.neuepolster.de). For any further questions, please feel free to contact us by email at [polster@dkl.de](mailto:polster@dkl.de) or by phone from Monday to Thursday from 8 AM to 5 PM at Tel. +49 (0)551 5006 202.