

Installation Instructions Art. No. 002077/V2 Replacement Gas Spring for Sirona S Dental Stool

The Sirona S dental stool has been manufactured over the years with various types of gas springs. With the gas spring retrofit kit 002077/V2 for Sirona S dental stool, all types of gas springs used in production can be replaced with a single universal version.



Preparation

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

IMPORTANT! Always lift the chair by the foot ring and the armrest to avoid dislodging the gas spring! It is only inserted, not screwed in. Especially with a newly inserted gas spring, it may slide out because it has not yet been secured by load and would then have to be reinserted with effort.

The gas spring only becomes securely seated after repeated and sustained pressure from sitting, so it no longer comes loose when lifting the chair.



Remove the retaining clip

Under the dental stool, the gas spring is secured with a retaining clip, except for an older variant.



Sirona S Gas Spring
Type 1, **no** retaining
clip, consult with
DKL (rare variant)



Sirona S Gas Spring
Type 2, remove
retaining clip

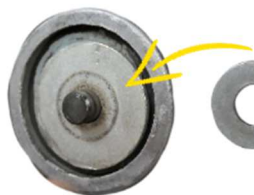


Sirona S Gas Spring
Type 3, remove
retaining clip

Lift the bracket of the retaining clip with a screwdriver and slide the retaining clip down.

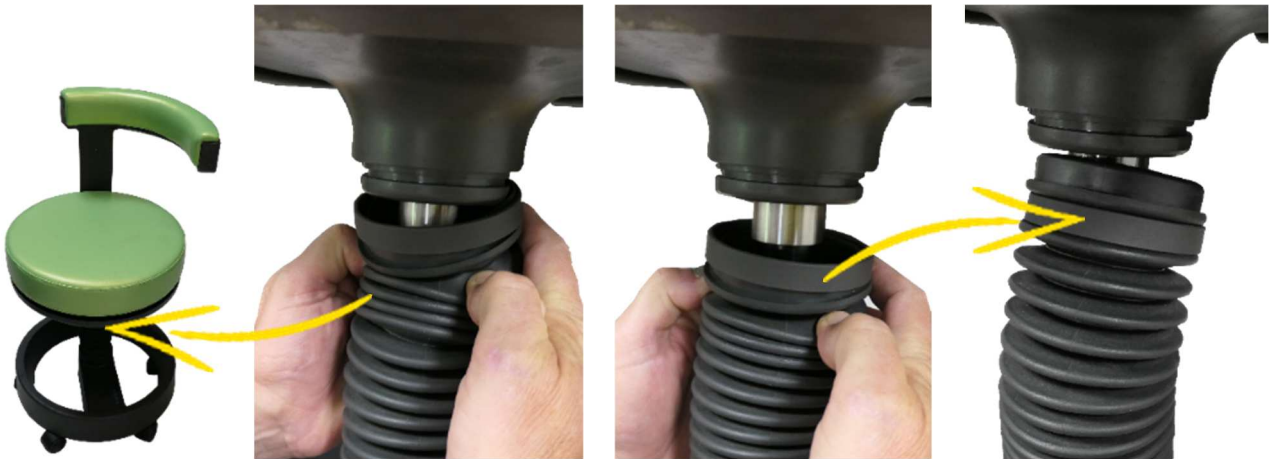


Remove the washers resting on the bolt of the gas spring. At least one small and one large washer must be removed, but there may be more.



Loosen the bellows sleeve

Pull the bellows sleeve down from under the seat cushion and slide the plastic locking ring down the sleeve. The locking ring must be further down for disassembly so that the sleeve can be pushed back over the bulge with reduced tension.



Pull out the upper part

Remove the upper part of the dental stool from the base frame.



Removing the standpipe

If the bellows sleeve is pushed down, the standpipe, which serves as a mounting socket for the gas spring, becomes visible. This standpipe must be removed. There is a washer inside the standpipe under the frame that can be ignored. Lift the back side and spray some oil from a spray can around the clamping edge of the standpipe, allowing it to soak in.



Using a standard pipe wrench from a hobby workshop will generally not be sufficient to remove the standpipe. It is recommended to use a professional pipe wrench instead. The longer the handle, the greater the force transmission. Recommended handle length: at least 350 mm (14 inches).

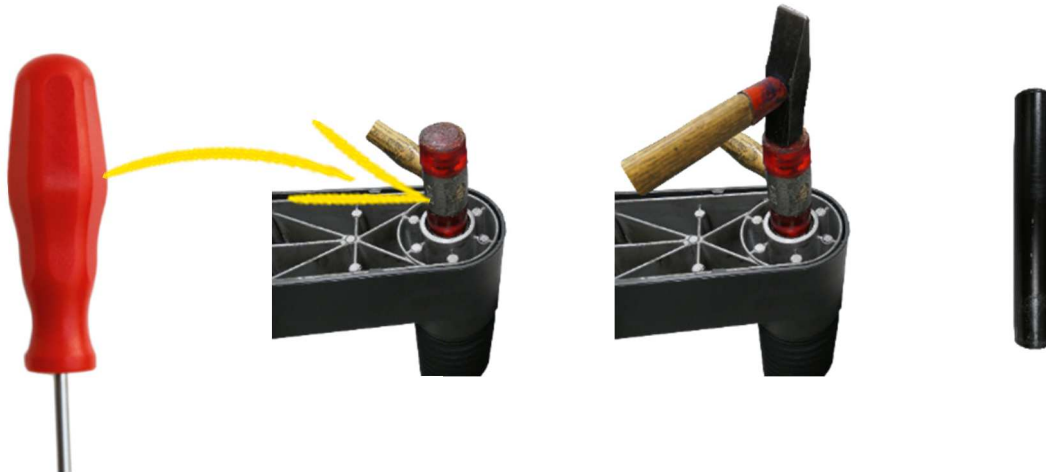
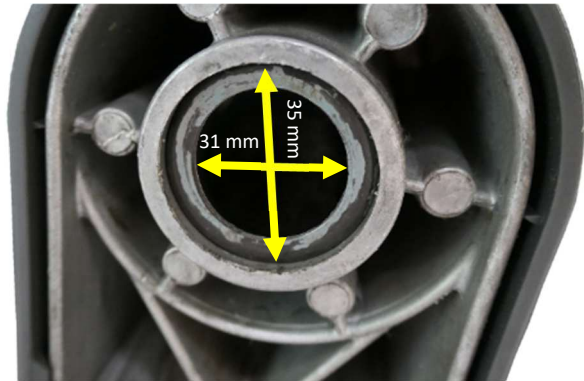


Grip the standpipe with the pipe wrench and try to loosen it by moving it back and forth. Then wipe off any excess oil in the clamping opening with a cloth.



Removing the standpipe – Alternative method

If the standpipe cannot be loosened with a pipe wrench, it can also be knocked out. To do this, place the base frame on a workbench as shown in the photo and secure it with your body. Then, using a round hammer (or a similar tool, such as an inserted screwdriver) with a contact surface diameter of at least 31 mm and no more than 35 mm, place it on the outer edge of the standpipe and knock it out with a hammer. The removed standpipe can be disposed of.



Removing the gas spring from the seat frame

The gas spring is merely inserted or clamped into the seat frame. Due to years of seat load, the gas spring is usually very firmly stuck in the frame and can only be loosened with considerable force. Therefore, first spray some oil from a spray can around the clamping edge and let it soak in.



Using a pipe wrench and, if necessary, with the help of a second person holding the frame, try to loosen the gas spring from the clamping. This process is tedious and may not succeed at the first attempt. As with previous steps, a standard pipe wrench from a hobby workshop will generally not be sufficient to remove the gas spring. Therefore, the recommendation is to use a professional pipe wrench. The longer the handle, the greater the force transmission. Recommended handle length: at least 350 mm (14 inches).



Remove the internal washer (can be disposed of) using a magnetic tool. If the washer has shifted and cannot be found, leave it in place and proceed to the next step. Then wipe off any excess oil spray in the clamping opening with a cloth



The removed gas spring, standpipe, and all associated parts of the gas spring are no longer needed and can be discarded.



Insert the new gas spring

The new gas spring is inserted into the base frame into the gas spring socket.



Attach the cushion frame

Lift the cushion frame and place it onto the gas spring.

Before sliding the bellows sleeve into place, test the function of the new gas spring.



Important when lifting the dental stool!

WARNING! Always grasp the foot ring and armrest when lifting the dental stool to prevent the gas spring from coming loose! It is only inserted and not screwed in.

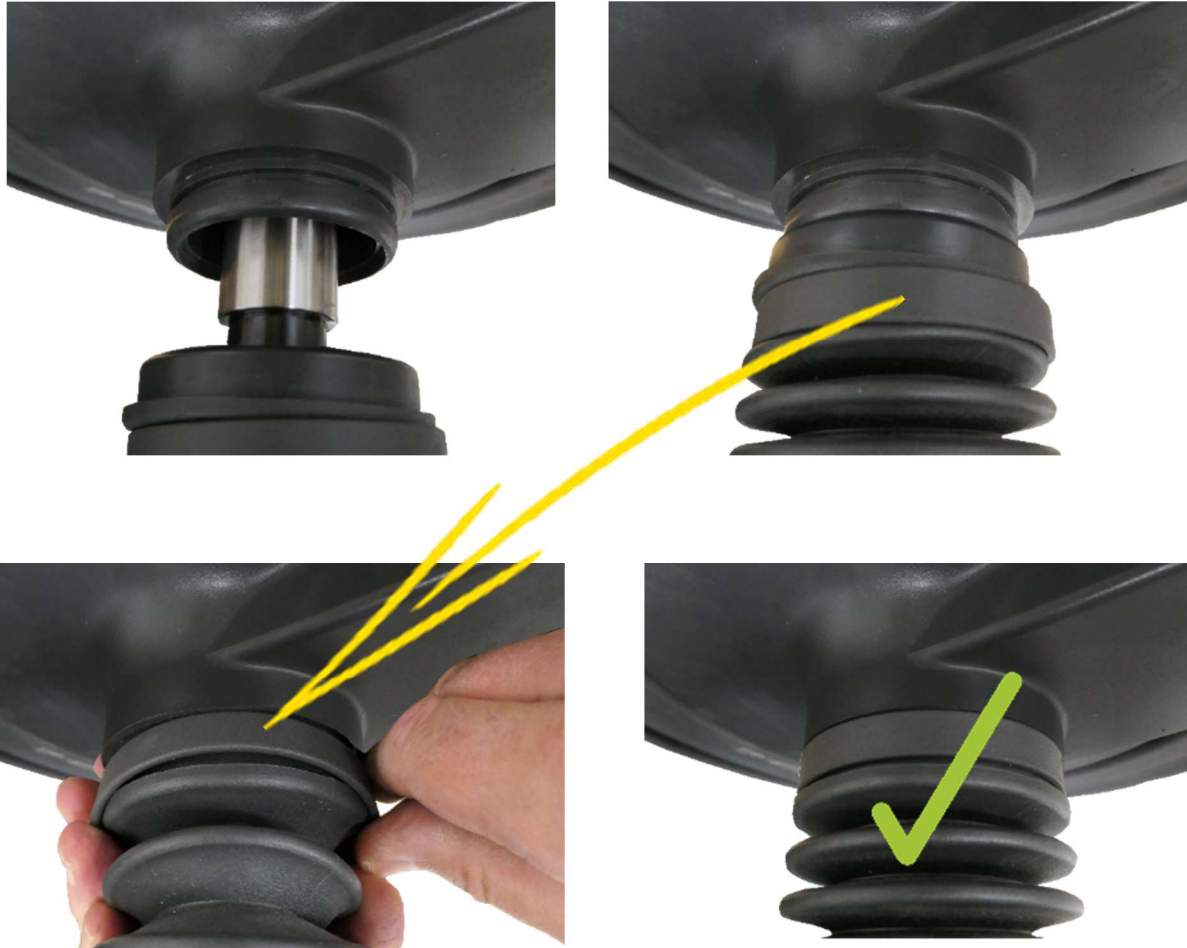
Especially with a newly installed gas spring, it may slip out because it has not yet settled firmly through repeated load and will need to be reinserted, which is a cumbersome process.

The gas spring becomes securely seated only after multiple and continuous use, ensuring it does not come loose when lifted.



Slide the bellows sleeve back into place

Pull the bellows sleeve up under the seat cushion over the bulge. Then slide the plastic locking ring over the upper bulge of the sleeve.



Transport instructions

When transporting dental stools, keep in mind that the gas spring is only inserted and not screwed in. Therefore, always hold the stool by the foot ring and armrest and never transport it lying down to prevent the gas spring from coming loose. Especially with new gas springs, the ends have not yet sufficiently wedged through use and may come loose. After extended use, the gas springs become more securely wedged and are less likely to loosen.

Always grasp the foot ring and armrest to prevent the gas spring from slipping out!
Do not transport lying down!



Further questions and assistance

Do you need additional parts for your dental stool? Chair casters (DKL250012), snap fasteners for seat cushion attachment (DKL210050), or would you like new cushions 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, and for any further questions, we are available via email at polster@dkl.de or by phone from Monday to Thursday between 8 AM and 5 PM at Tel. +49 (0)551 5006 202.