

! Installation instructions-speed increase !

This manual is intended to help you press the original gear into the 3D printed gear and install the speed increase, in the form of text and images.
Good luck!

- First of all, the cylinder mower must be disassembled or disassembled on the correct side. This can be seen on the wider side (drive side) of the wheels, see circle marking in the picture.



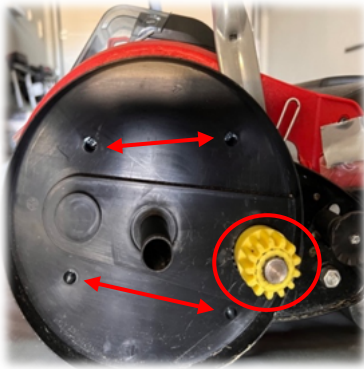
- On the side, without hubcaps, the whole thing looks like this:



- This is followed by the disassembly according to pictures, step by step:



- The 4 screws (arrow marked) must be unscrewed and the gear wheel must be removed from the mechanical wheel drive, including the drive stone (circular marked).



- Now the small gear wheel (marked in a circle) must be freed in order to be able to remove it together with the belt. The arrow marking indicates the retaining ring, which must first be removed with a retaining ring pliers, in the technically correct sense.

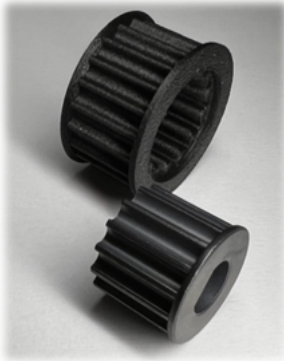


- Once the retaining ring has been removed, the gear wheel and belt can be removed in an approximately evenly parallel movement. Behind the small gear wheel there should be a thin "washer". Please stay where it is!
- The large cogwheel, on the right, also remains in place. If it goes off, then just mount it again or put it on.

! The assembly is done in the opposite order to the disassembly !

! Let's move on to pressing the original gear into the 3D printed gear for the actual speed increase !

You now have the original gear and the 3D printed gear in your hands or in front of you.



The following picture shows the correct press-fit direction. Marked by the letter **A**.

A must be placed correctly in relation to **A** and in the free spaces between the teeth.

In the best case, as can be seen in picture 2, this is done between the jaws of a vice. This means that the gear can be pressed in easily, non-destructively and successfully with little effort by turning the vice spindle.

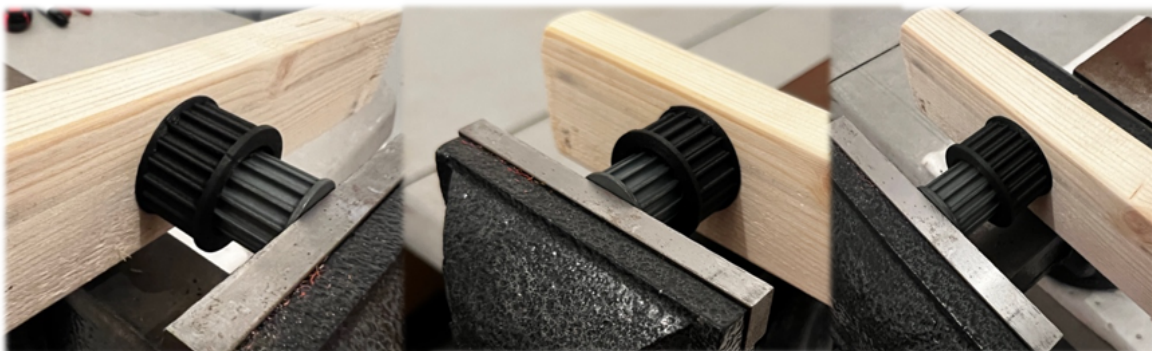
! ATTENTION !, Please do not use: greases, oils or other lubricants. The original gear must be pressed into the 3D printing gear without grease, otherwise plastic corrosion, also known as degradation, can form and cause decomposition, swelling or the like.



Illustration 1: Picture 2

I demand that the contact surface of the vise jaws, if not high or wide enough, be enlarged with e.g. a piece of wood, in order to completely prevent any pressure damage during the press-fit process on the rear fine thin collar of the plastic gear.

! Please follow, pictures below !



The press-fitting of the gear wheel has been successfully completed if it now looks like the following pictures.



Illustration 2: Front



Illustration 3: Side view



Illustration 4: Back

- **Now the assembly can begin, in reverse order to the disassembly, as described above, and wish you good luck!**
- **Don't forget to install or use the new, longer and included timing belt!**

Before you then reinstall the timing belt guard, it is recommended, if you do not want to simply leave out the protection, to cut it generously and all around the belt drive or cut it freely.

The reason for this was due to 3 customer errors during assembly and the not 100% identical manufacturing process on the part of Einhell due to the injection moulding process with regard to the belt cover.

It may be that the belt with non-identical covers, such as my own or others, tarnishes on the belt guard and thus develops heat. In the further case, this can lead to the fusion of the gear.

To prevent this, I omitted the belt guard completely or, in the case of customer devices, generously freed or cut the belt guard around the belt drive.

I wish you a careful, finer result lawn cut and a lot of fun with the extra power on your cylinder mower!