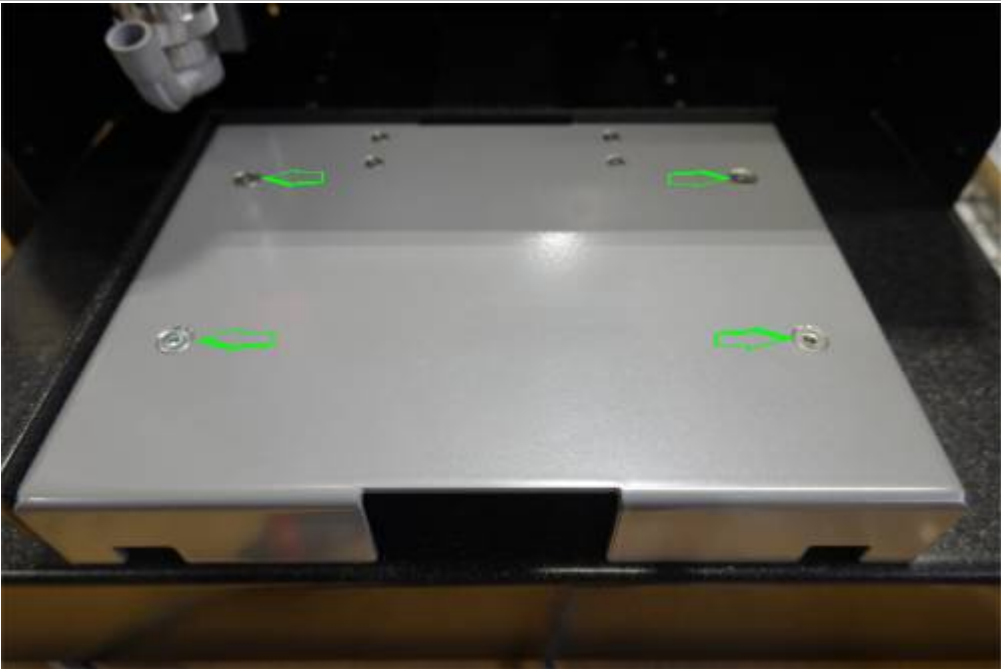
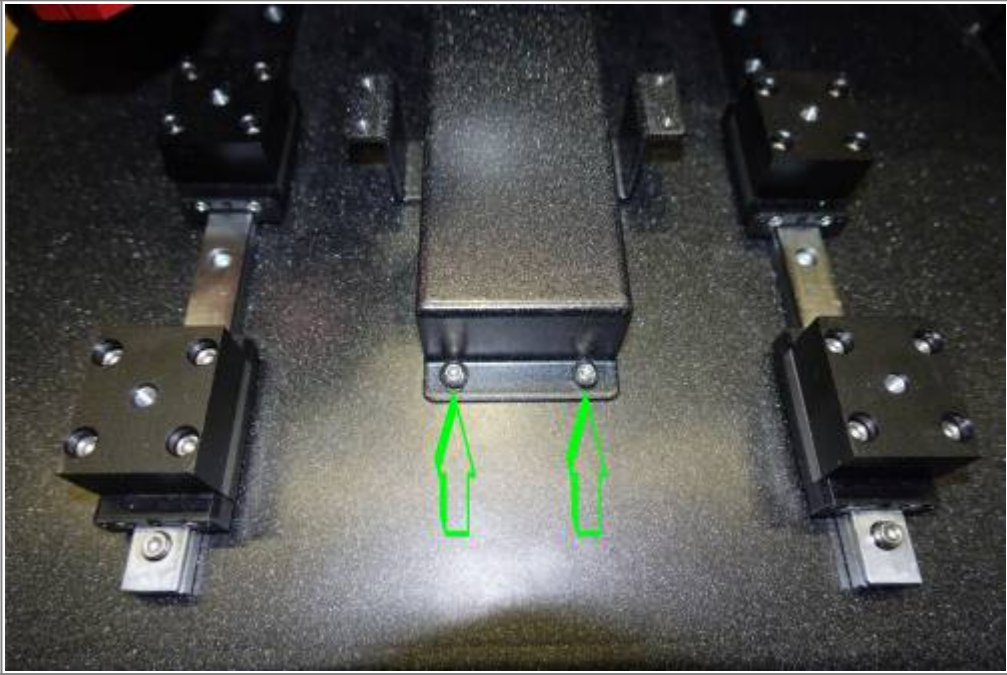


# greasing the leadscrews

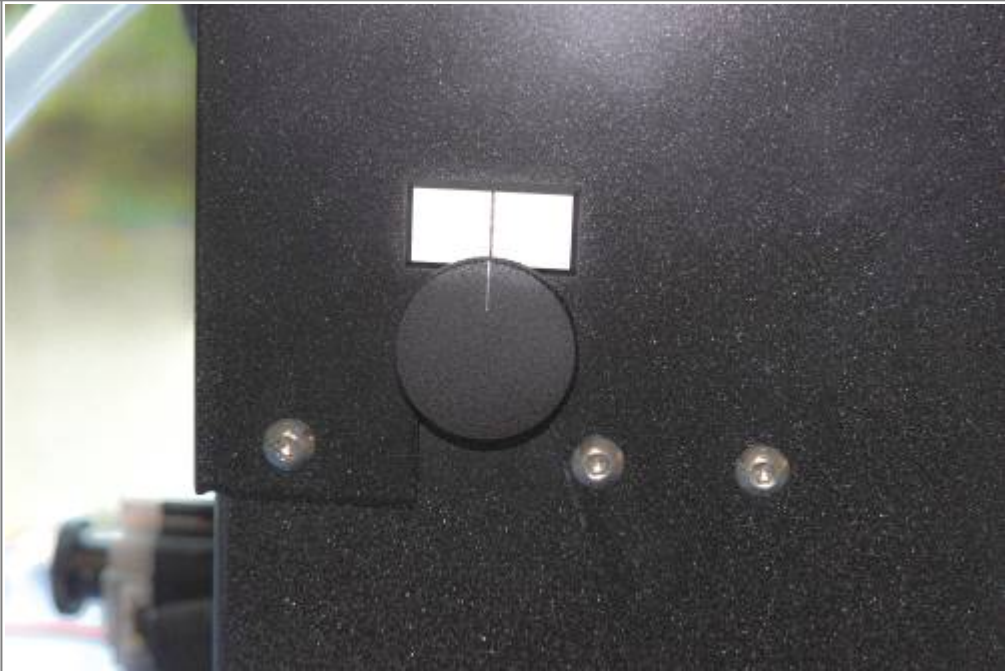
## Important notes:

1. The X-axis and the Z-axis leadscrews are easily accessible, applying some grease is easily done there.
2. Before putting grease on the leadscrews, make sure they are absolutely clean. Use a soft dry cloth to clean them.
3. The Y-axis leadscrew sits under the engraving table and under a metal cover, both of which will have to be removed to get access to them.

| Image                                                                                | Description                                                                                                                                       |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
|   | Remove the 4 screws which are indicated with a green arrow on the image on the left.                                                              |
|  | Remove 4 more screws which are indicated with a green arrow on the image on the left. You can lift up the engraving table and put it on the side. |

| Image                                                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Remove the 2 screws which are indicated with a green arrow on the picture on the left.</p>                                                                                                                                                                                                                                                                                                                                                                  |
| {afbeelding                                                                        | <p>Jog the Z-axis (the spindle) down till there is about 15 mm distance to the table surface.<br/>After that screw a cutter knob counter clockwise in the spindle.<br/>Then gently push a cutter through the cutter knob and the spindle. It has to stick out of the spindle at the bottom.<br/>Push the cutter through the spindle till its tip is as close as possible to the table surface, but without touching it.<br/>Tighten the cutter knob screw.</p> |

| Image                                                                               | Description                                                                                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <p>Switch off the machine using the mainswitch.</p>                                                                                                         |
|  | <p>Gently rotate the black knob on the back side of the X-axis stepper motor till the flat side of the cutter is well aligned with the left table stop.</p> |

| Image                                                                              | Description                                                                                                                                                                                                                                   |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Now check if the finely engraved line on this knob corresponds with the engraved line on the indicator plate.<br/>If that is not the case, loosen the black knob and rotate it to properly align it with the engraved indicator plate.</p> |
|                                                                                    | Re-tighten this knob.                                                                                                                                                                                                                         |
|                                                                                    | Screw the depth regulator nose back onto the spindle.                                                                                                                                                                                         |

Continue to [opening the electronics compartment](#).  
Continue to [the table of contents](#).

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