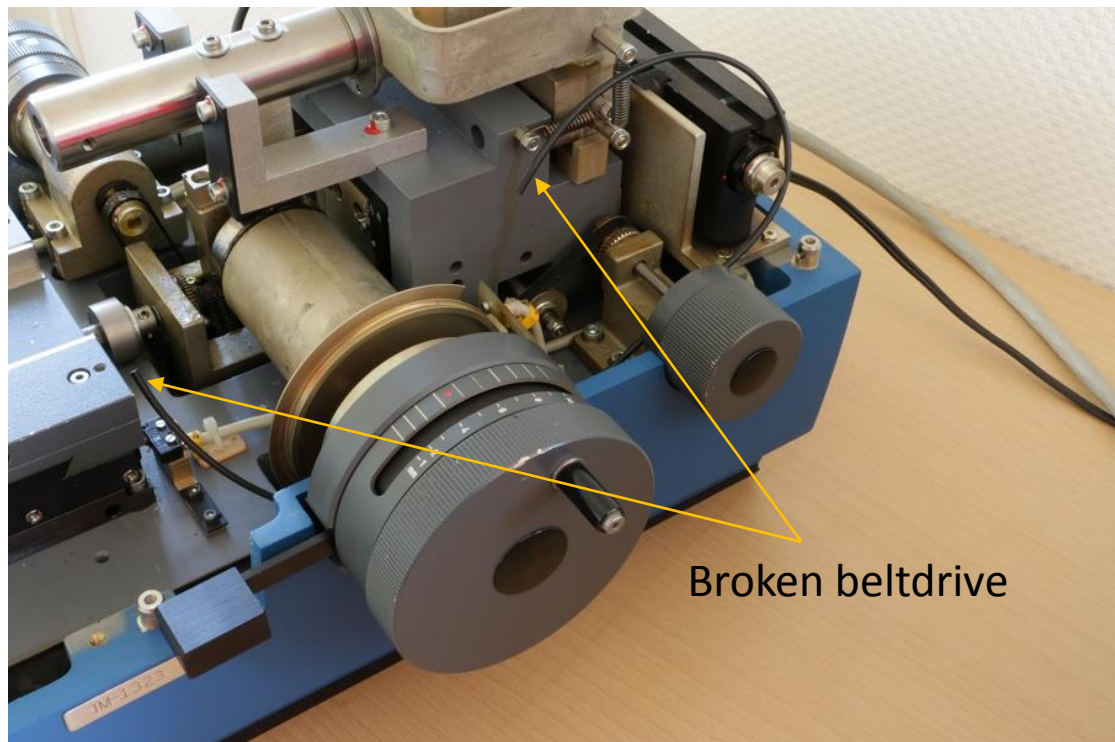


# Motor beltdrive removal and installation, Reichert-Jung Ultracut E ultramicrotome.



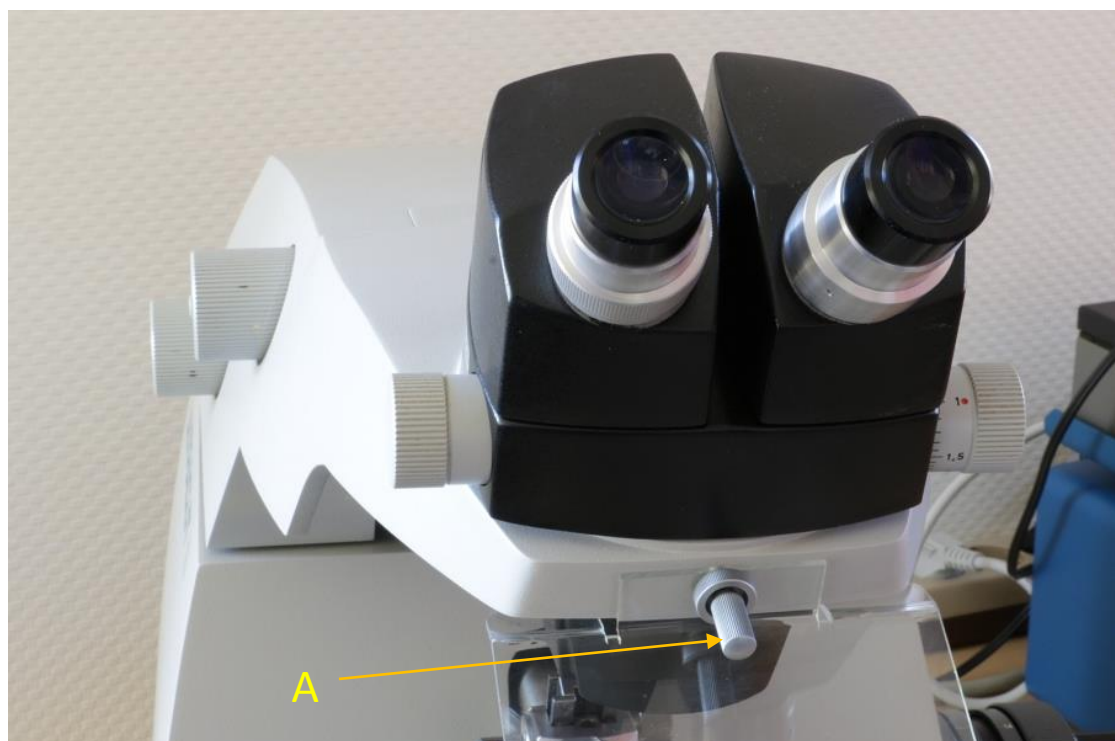
The beltdrive was broken and had to be changed.

Fig 1



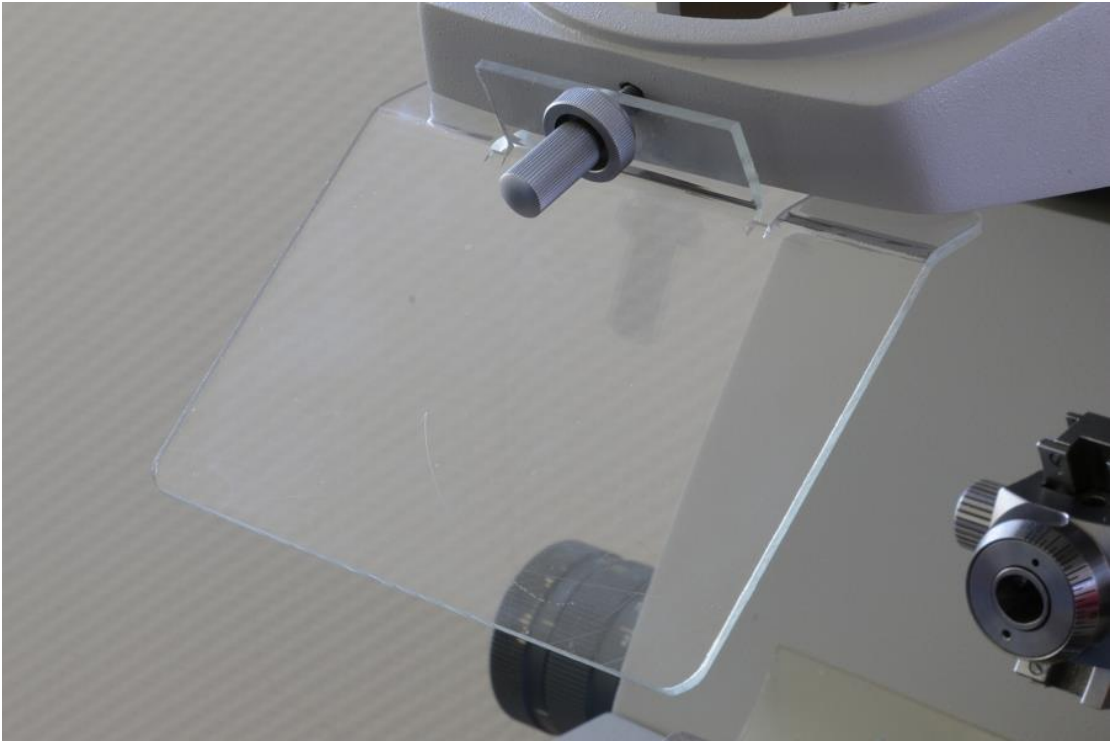
Remove screw 'A', microscope and face shield.

Fig 2



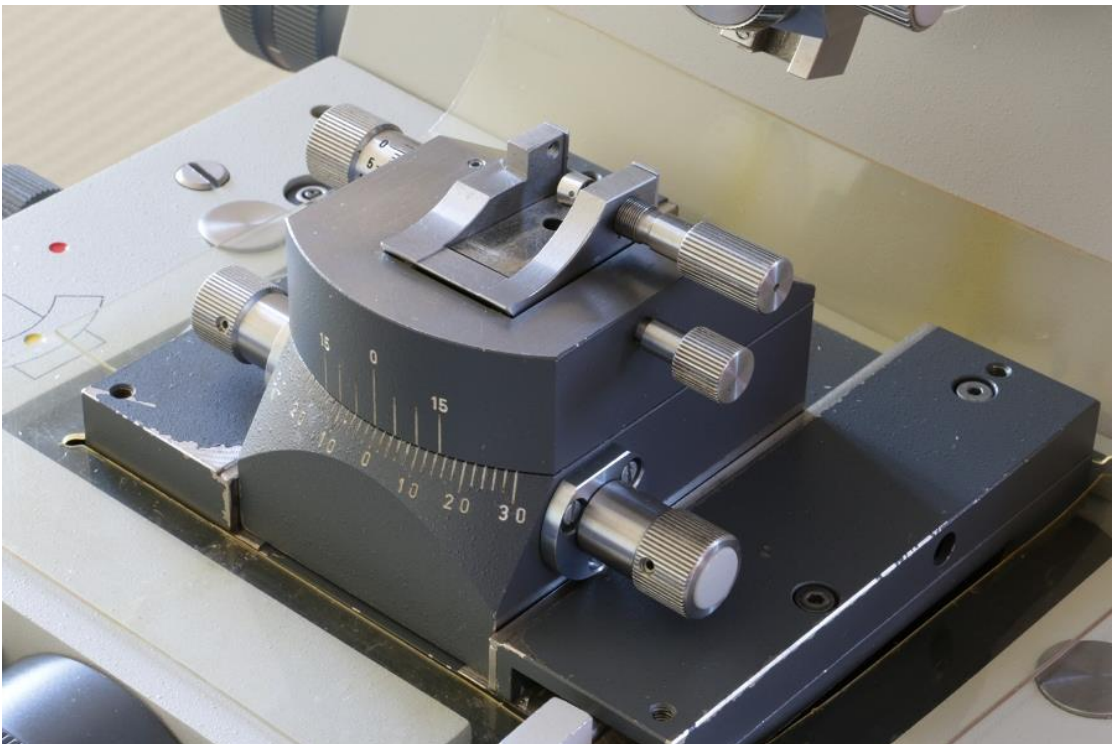
Remove screw, microscope and face shield.

Fig 3



Remove knife holder from microtome.

Fig 4





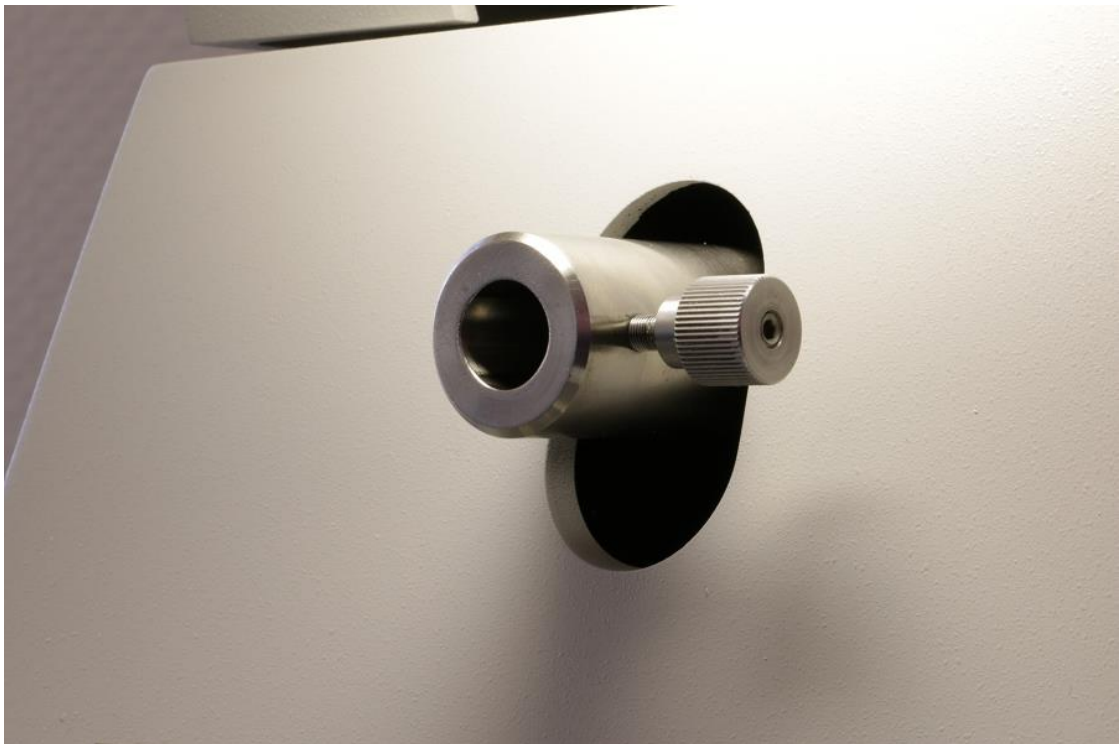
Loosen screw and remove specimen holder.

Fig 5



Remove screw.

Fig 6



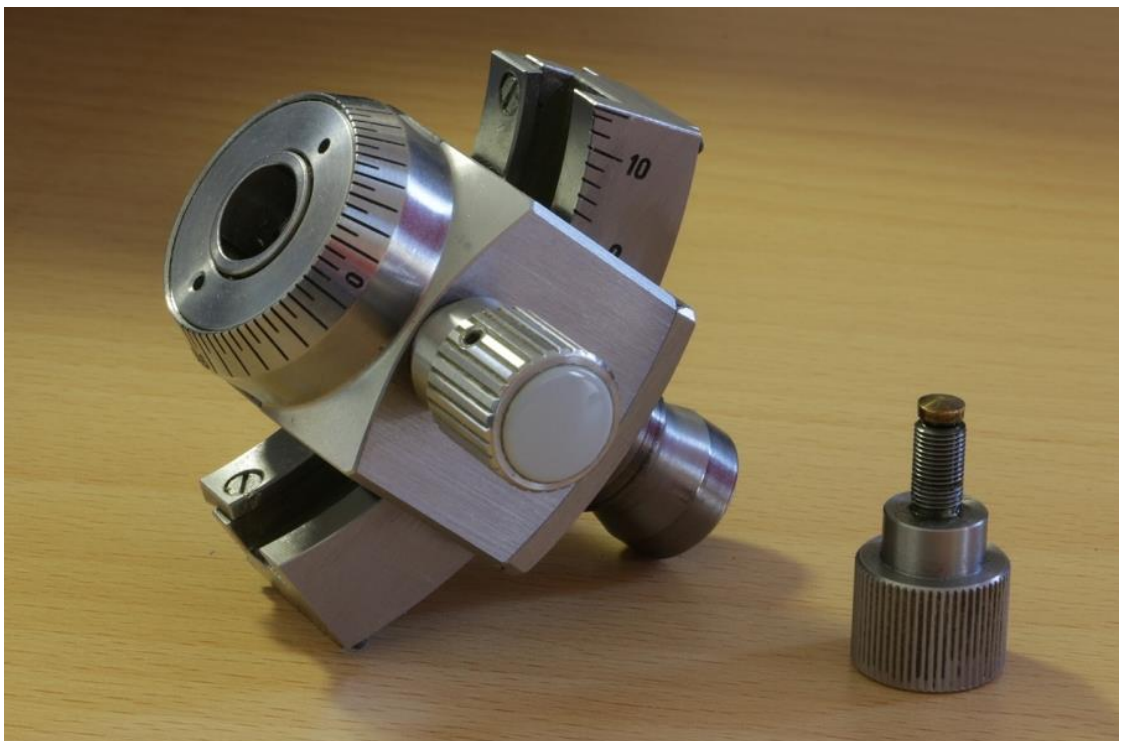
Screw is removed.

Fig 7



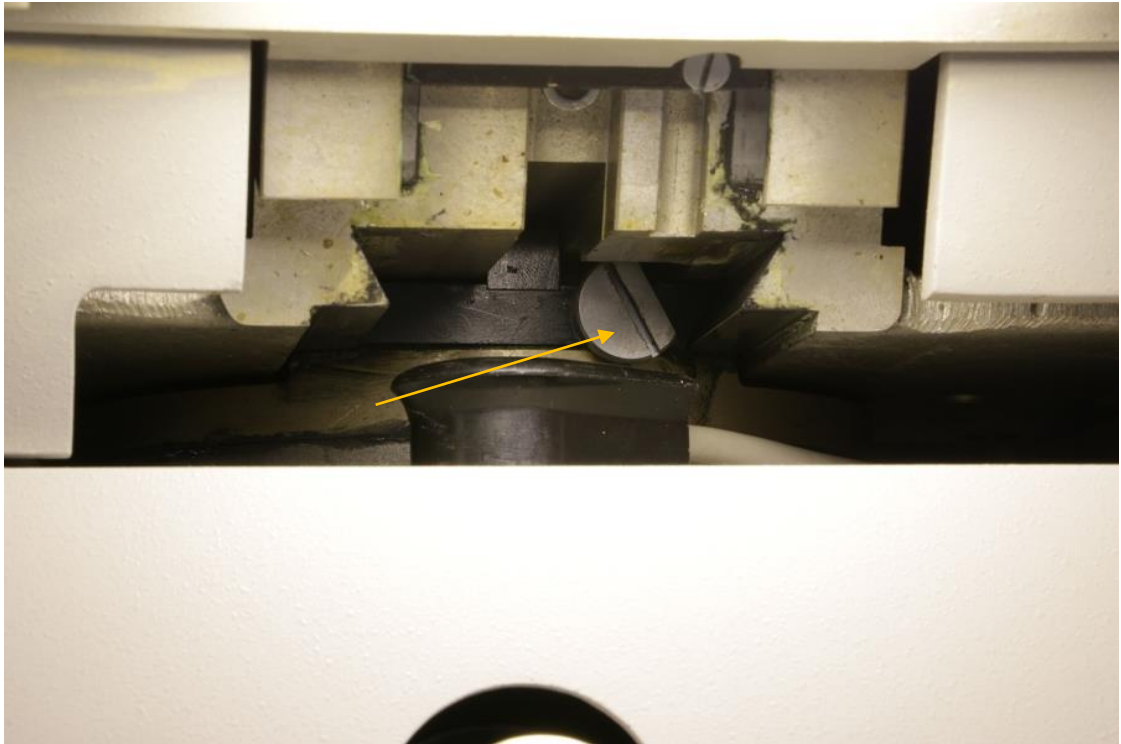
Specimenholder and screw.

Fig 8



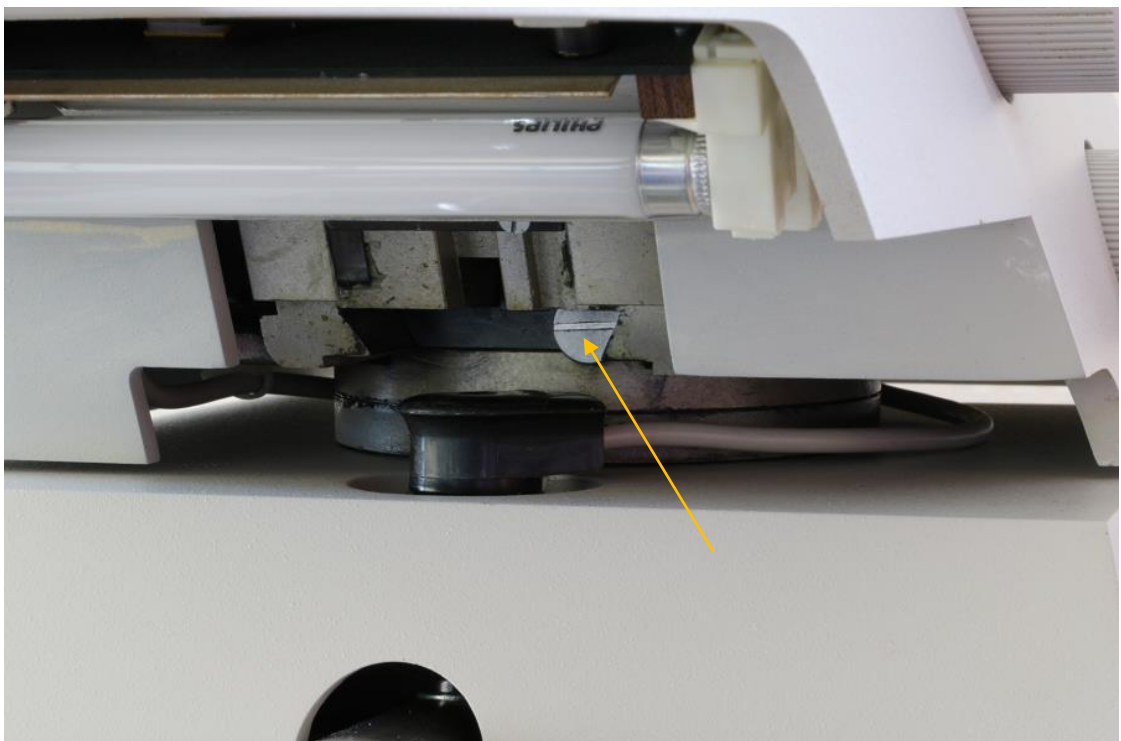
Rotate the lockscrew of the microtome upper head, so that the notch is horizontal.

Fig 9



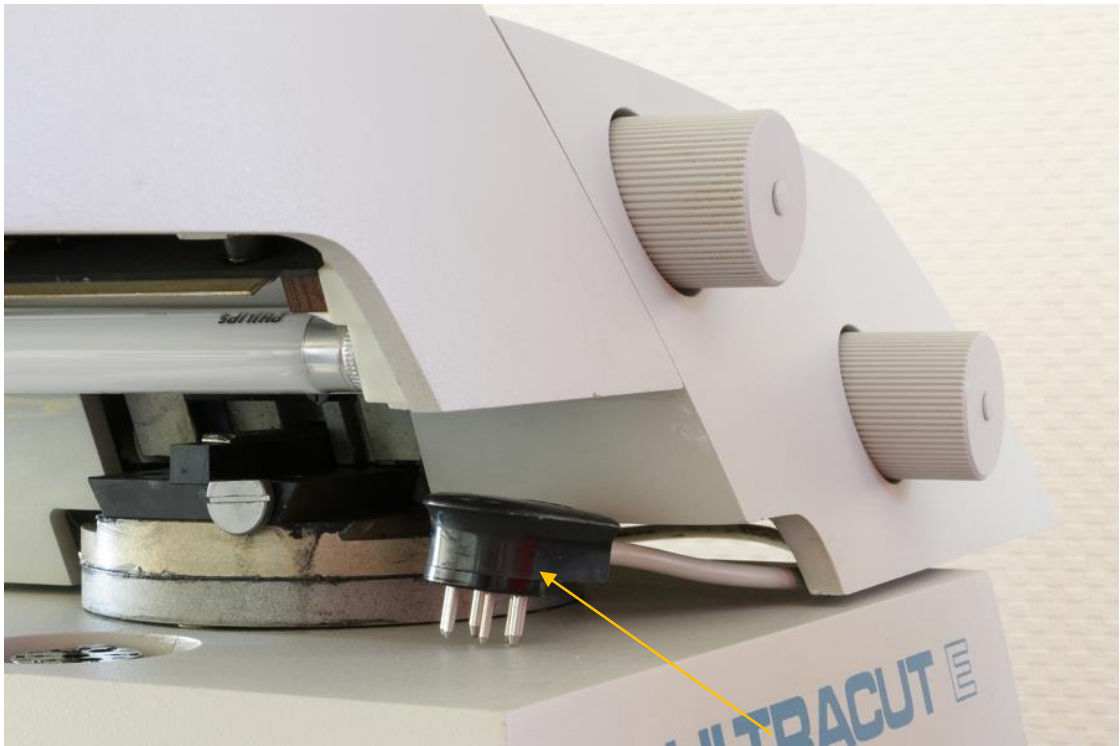
Here is the notch horizontal.

Fig 10



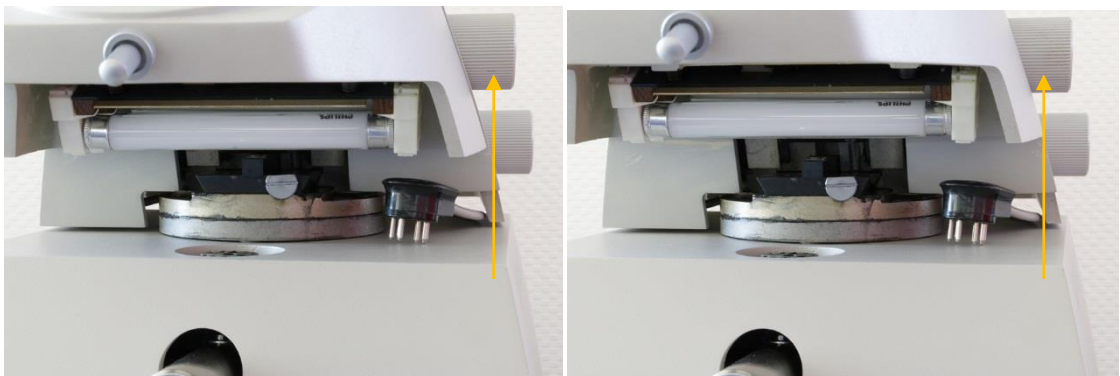
Remove the electrical connector.

Fig 11



Rotate adjust knob so that the microtome head rises to the maximum distance.

Fig 12 and 13





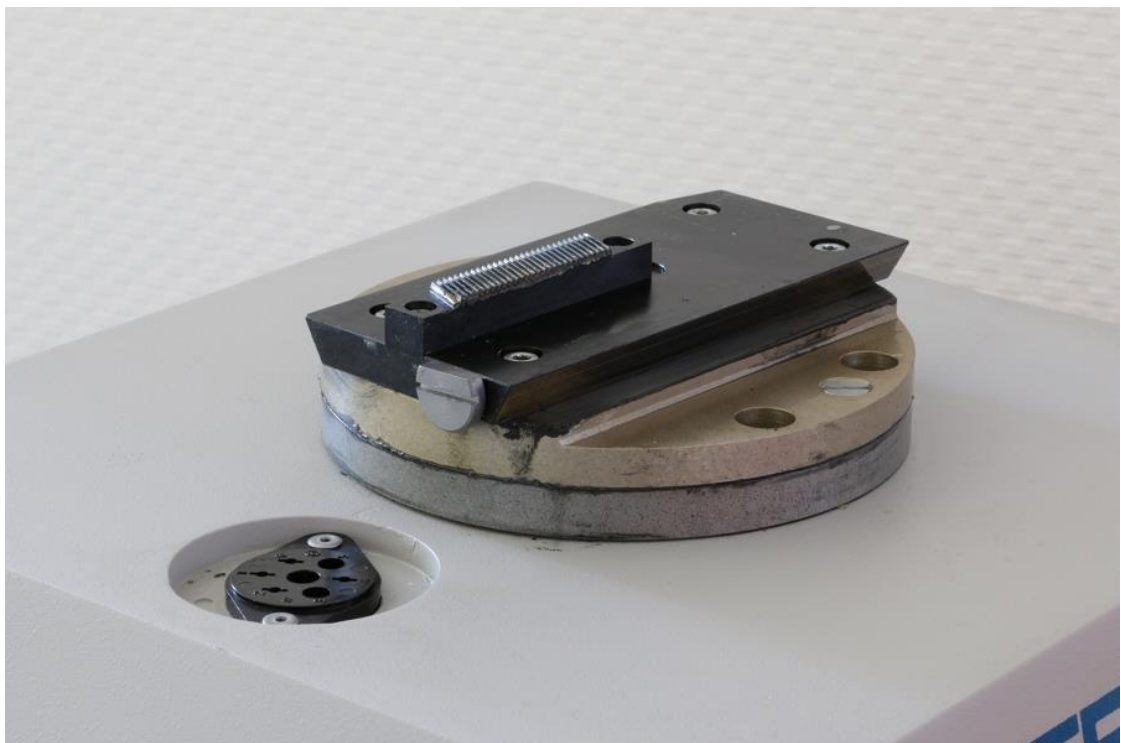
Rotate knob 'A' so that head is moving backwards  
and the whole head can be removed from the microtome.

Fig 14



Head is removed.

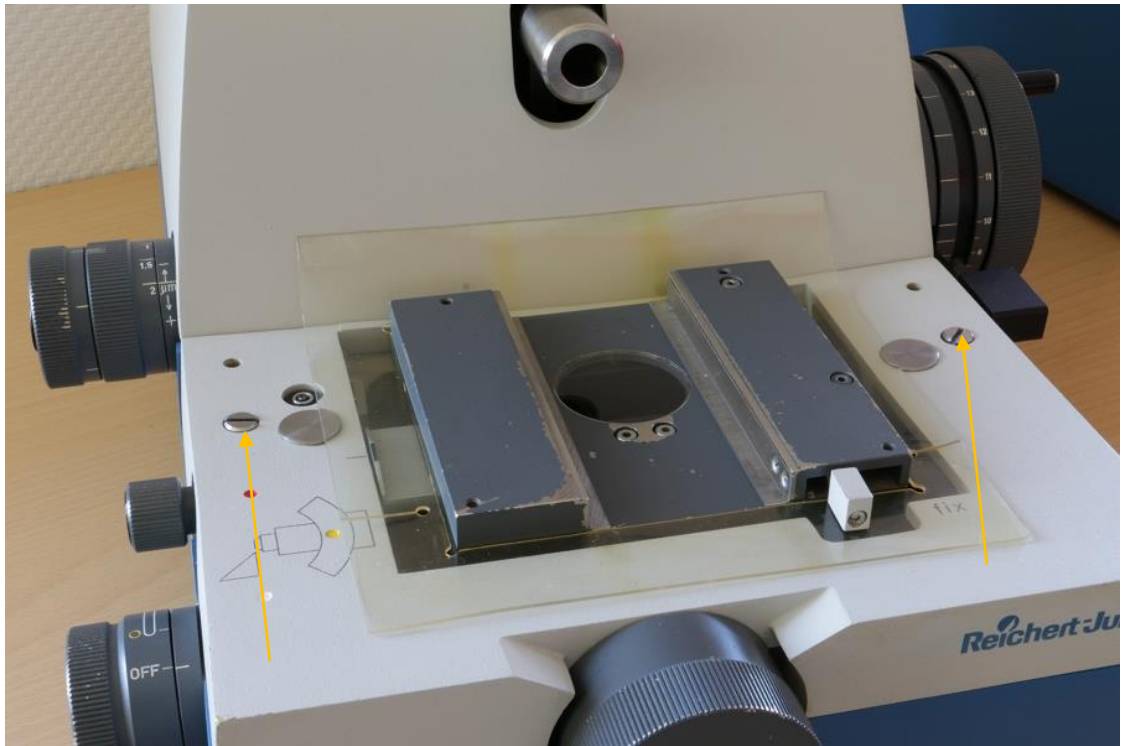
Fig 15





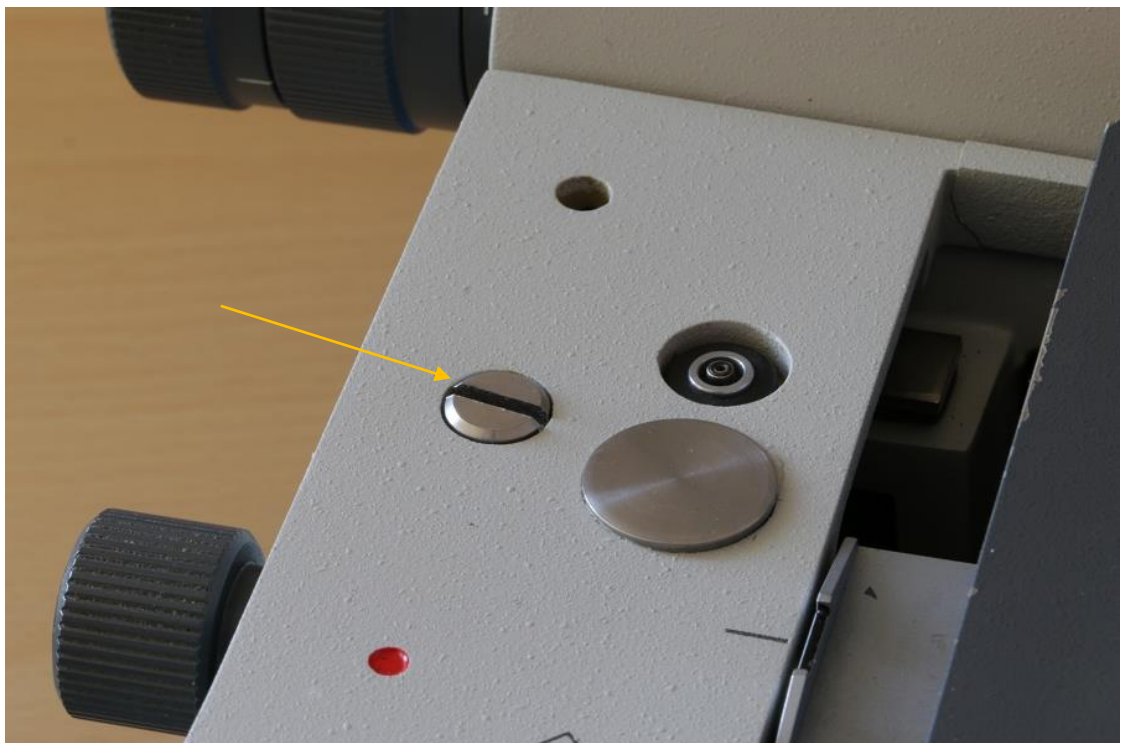
The front panel should be removed.  
Remove two screws.

Fig 16



Remove screw.

Fig 17



Remove two screws.

Fig 18

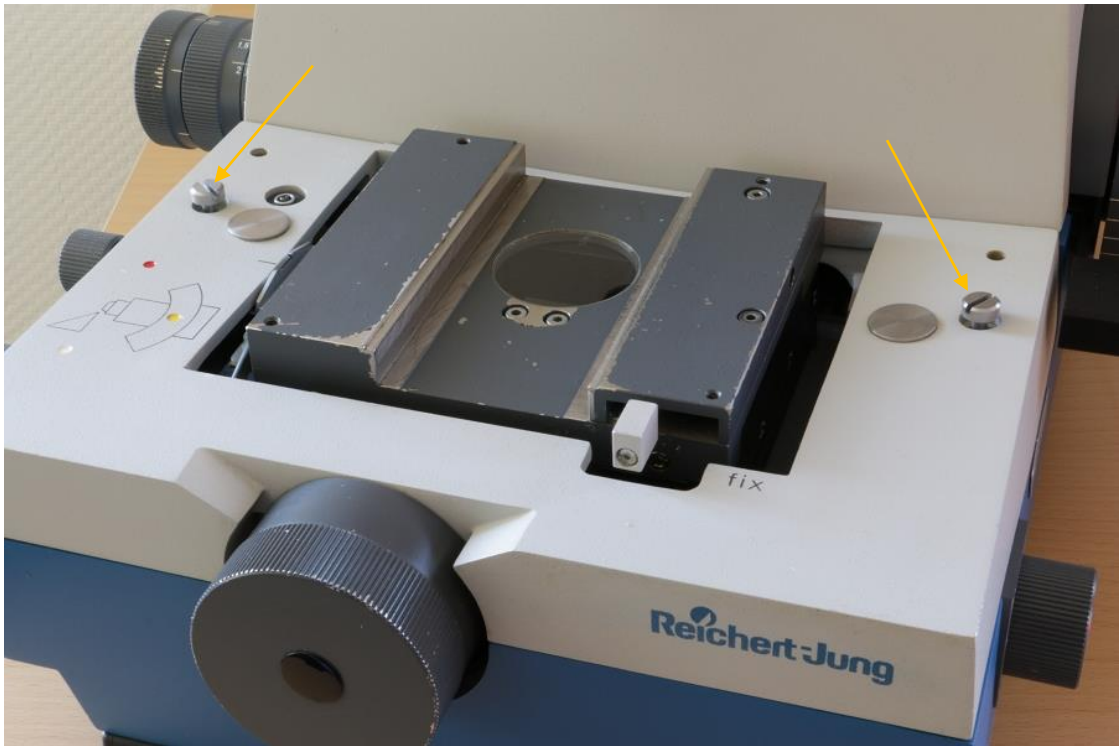
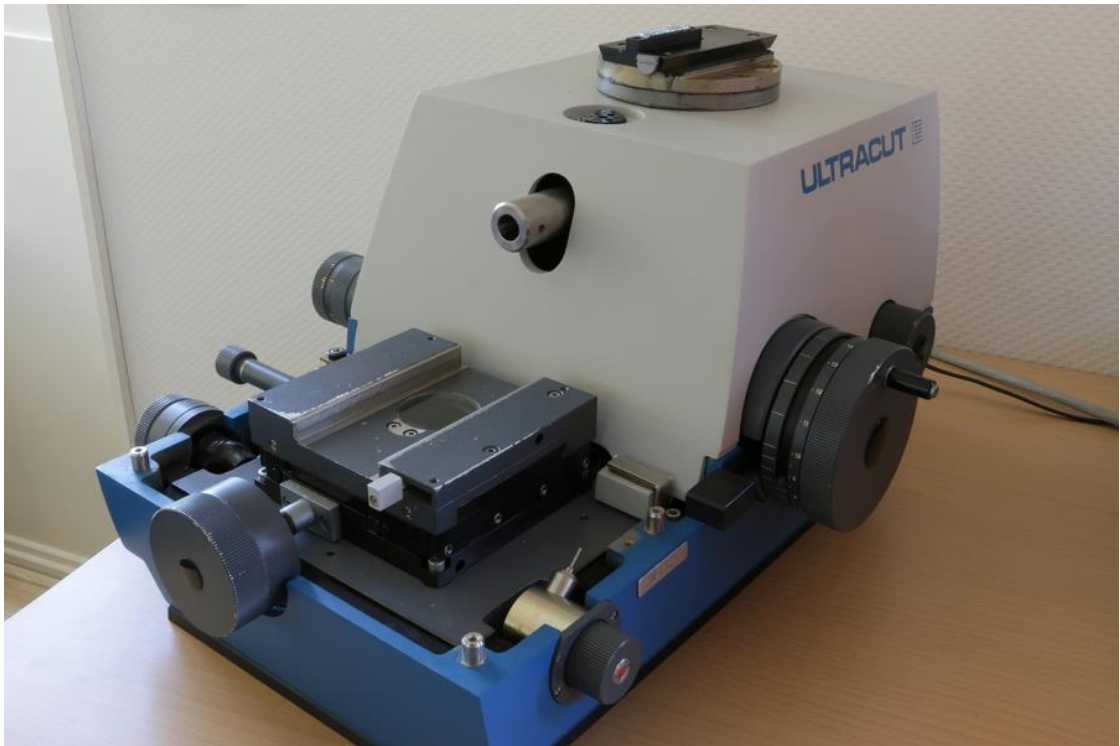


Fig 19



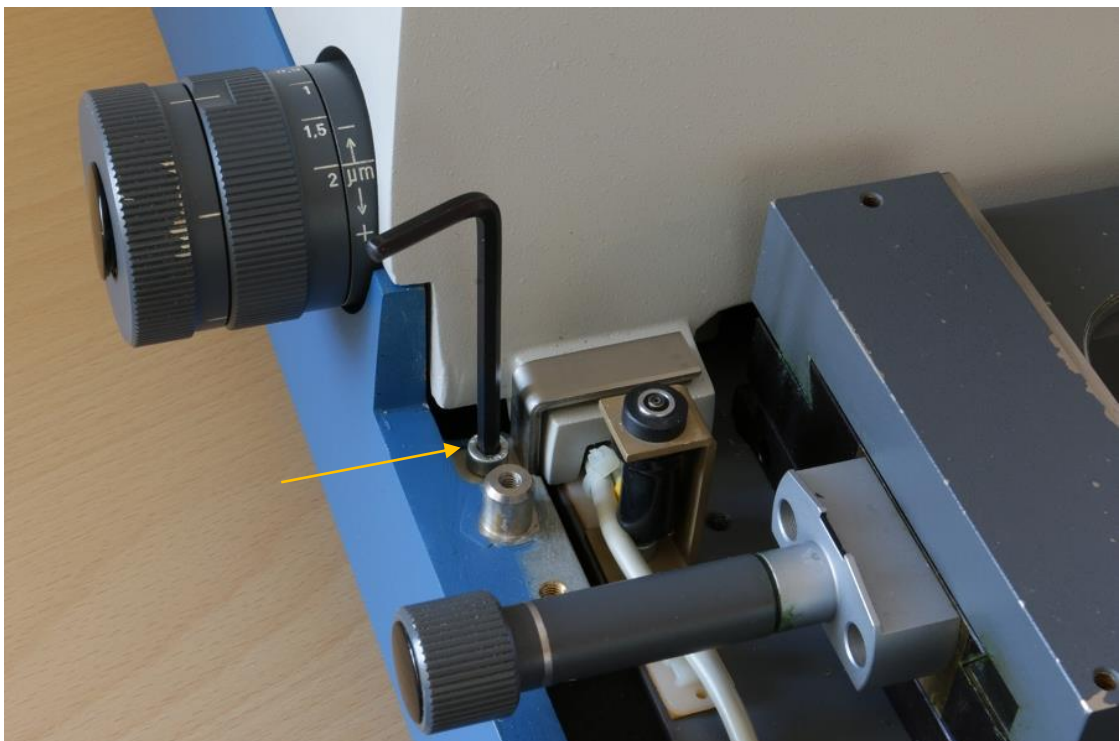
The housing panel is secured with four screws. Two in the backside of the microtome (not visible here), and two in the front.

Fig 20



Remove the screw

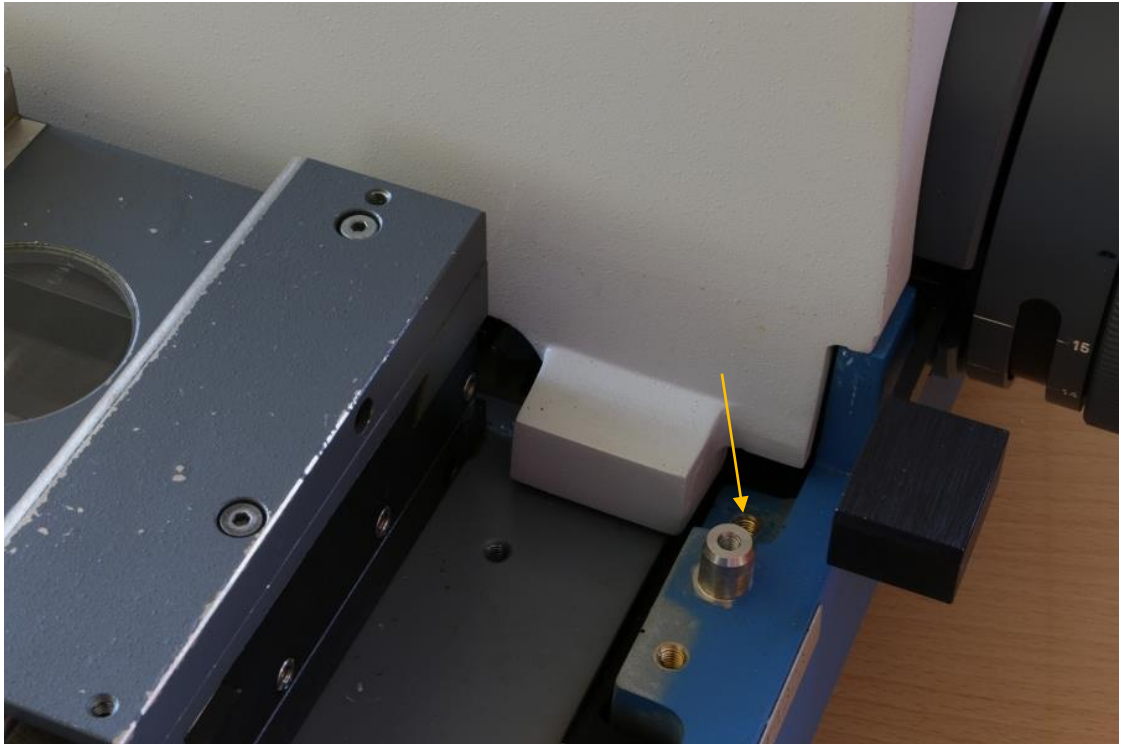
Fig 21





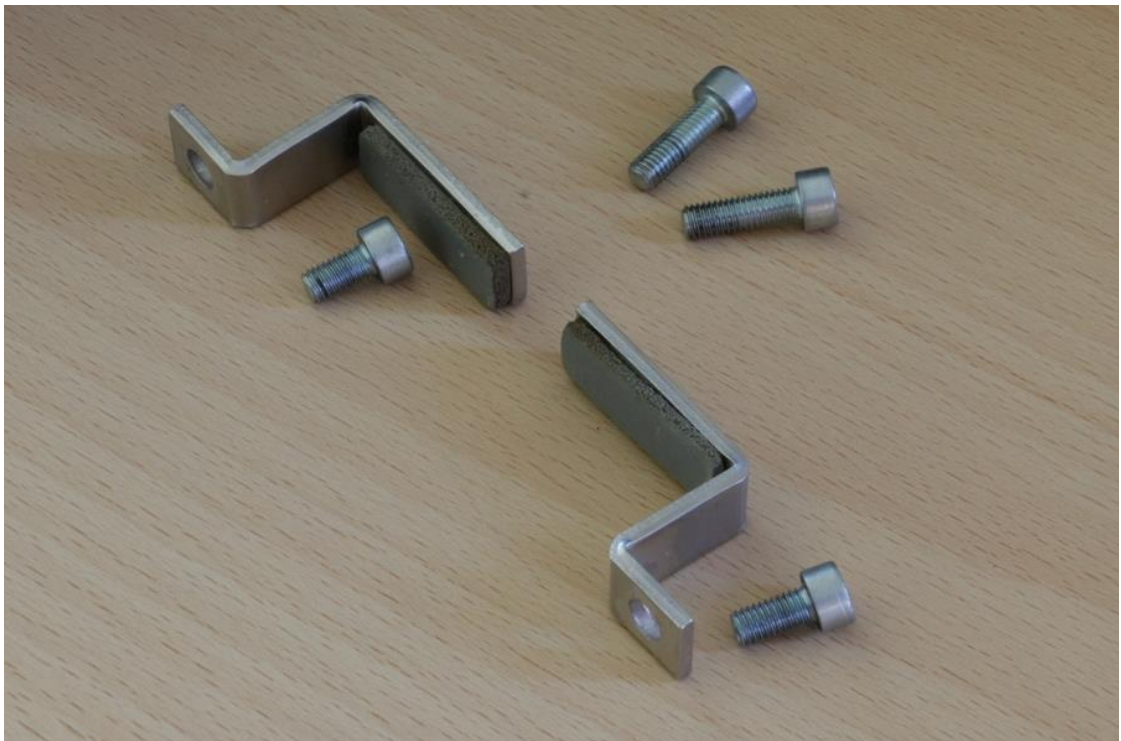
The screw here is already removed.

Fig 22



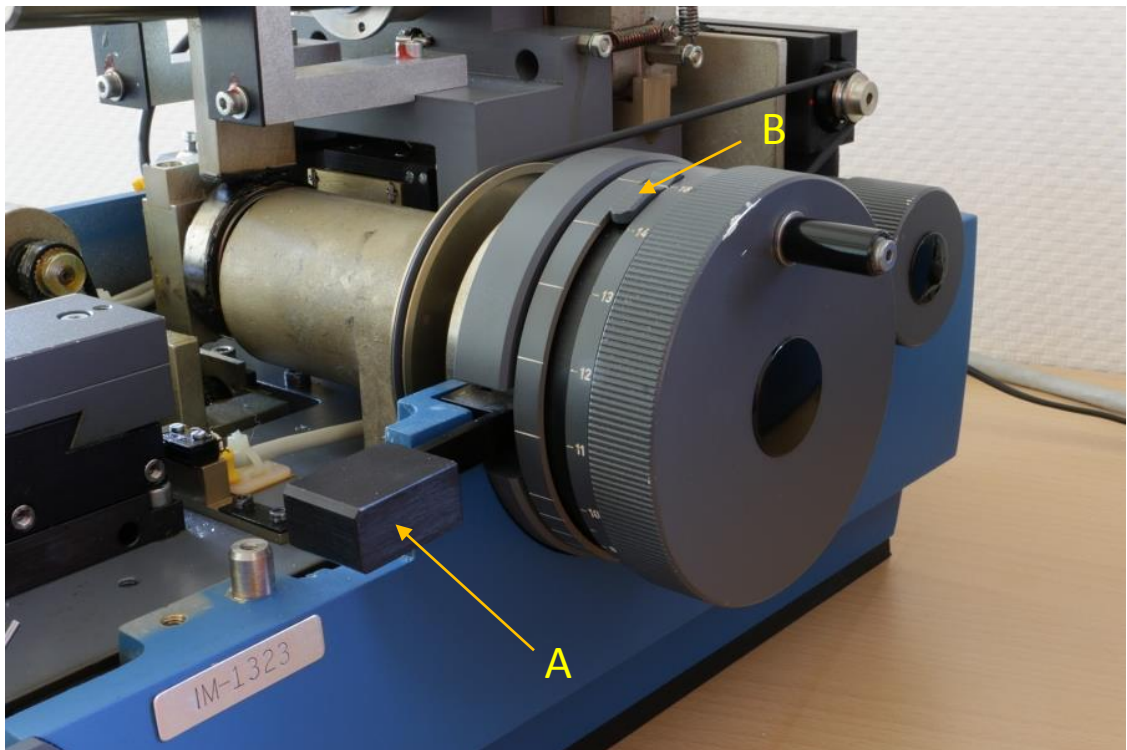
Four short screws with two bulkheads and two longer screws from the backside of the housing.

Fig 23



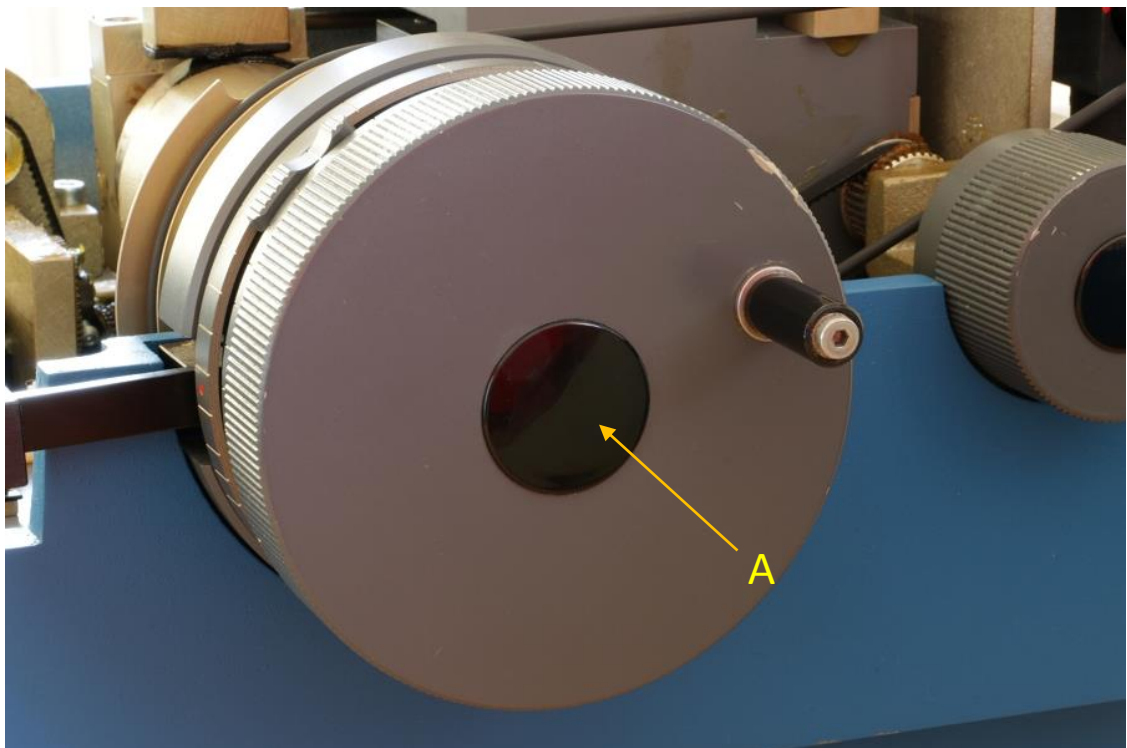
Position lever 'A' in the midposition (off) and lever 'B' should be positioned in the full up position.

Fig 24



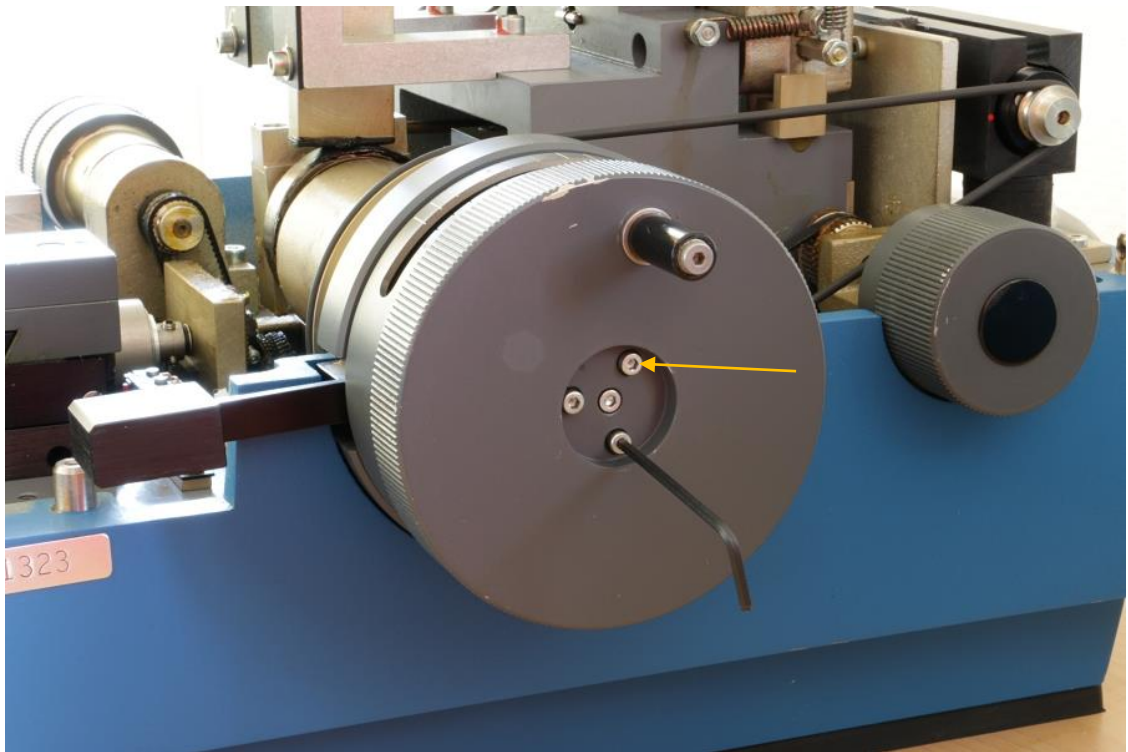
Remove the black cover 'A' with fingernails.

Fig 25



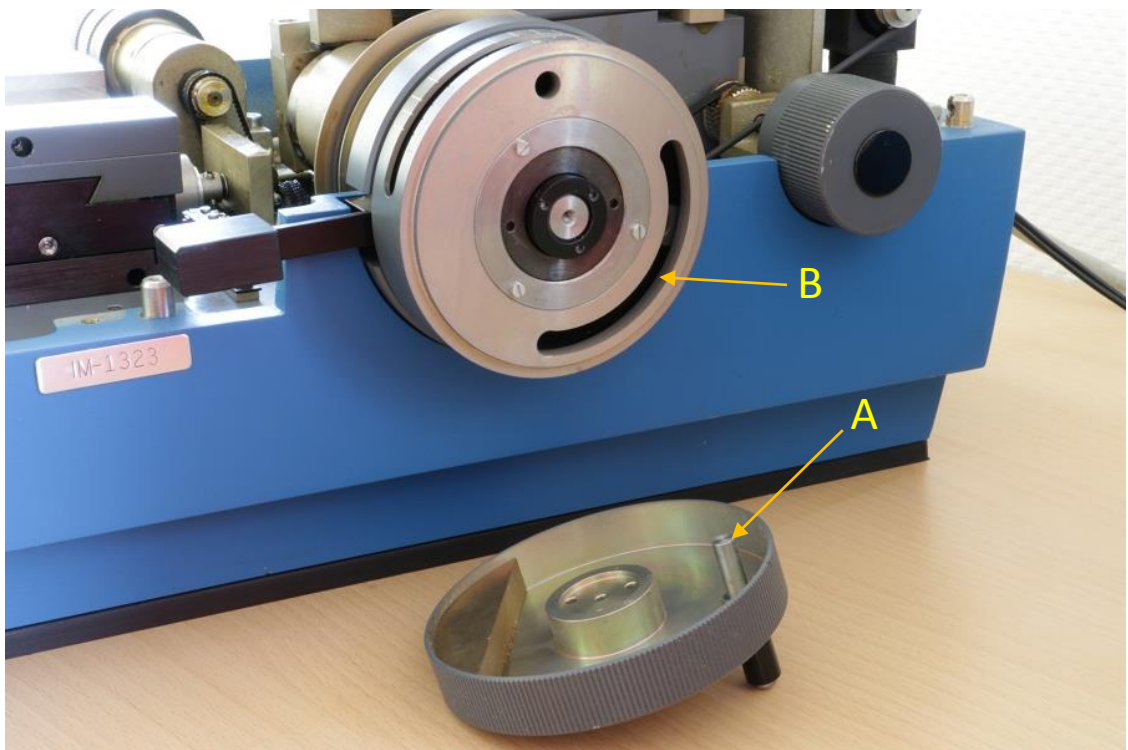
Remove four screws.

Fig 26



During installation should pin 'A' fit in groove 'B'.

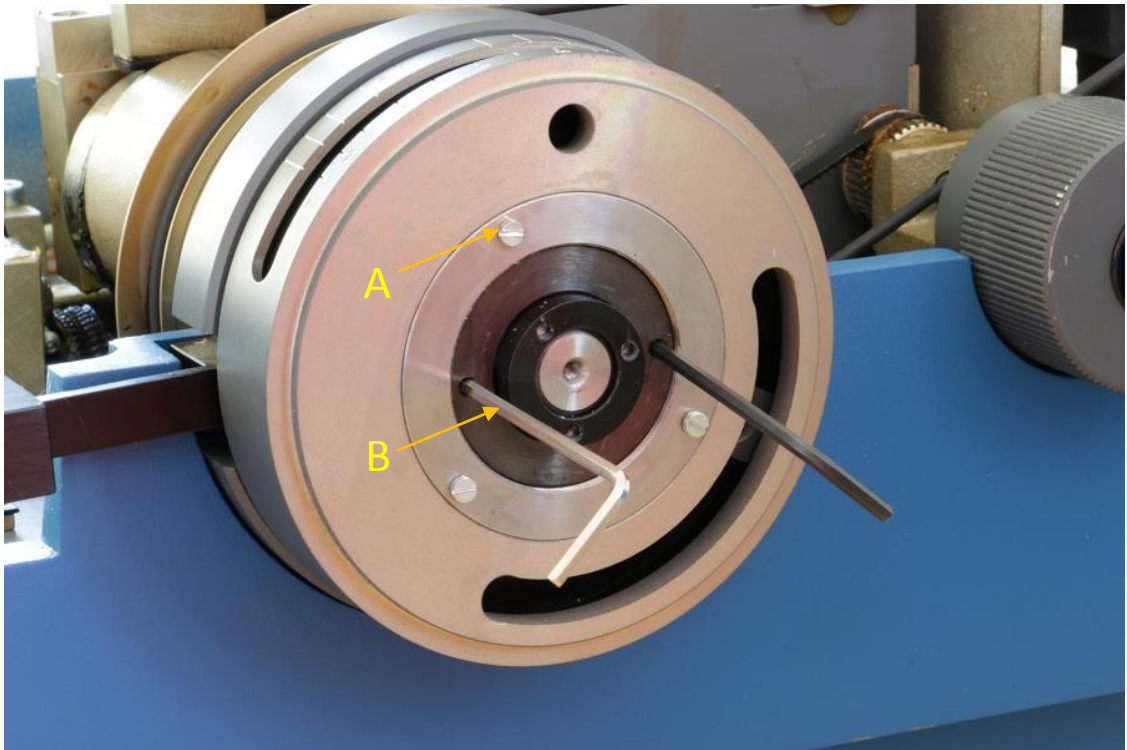
Fig 27





Remove three screws and position two tools in the two holes.

Fig 28



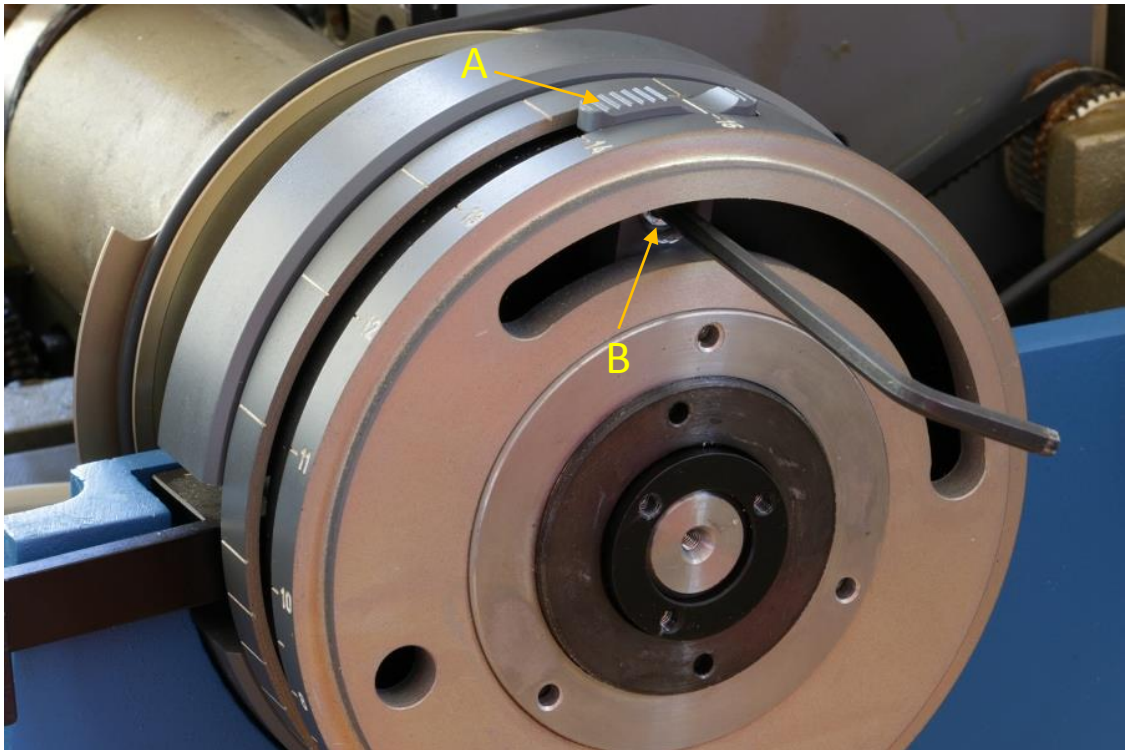
Three screws from Fig 28.

Fig 29



Remove lever 'A' by removing screw 'B'.

Fig 30



Lever and screw.

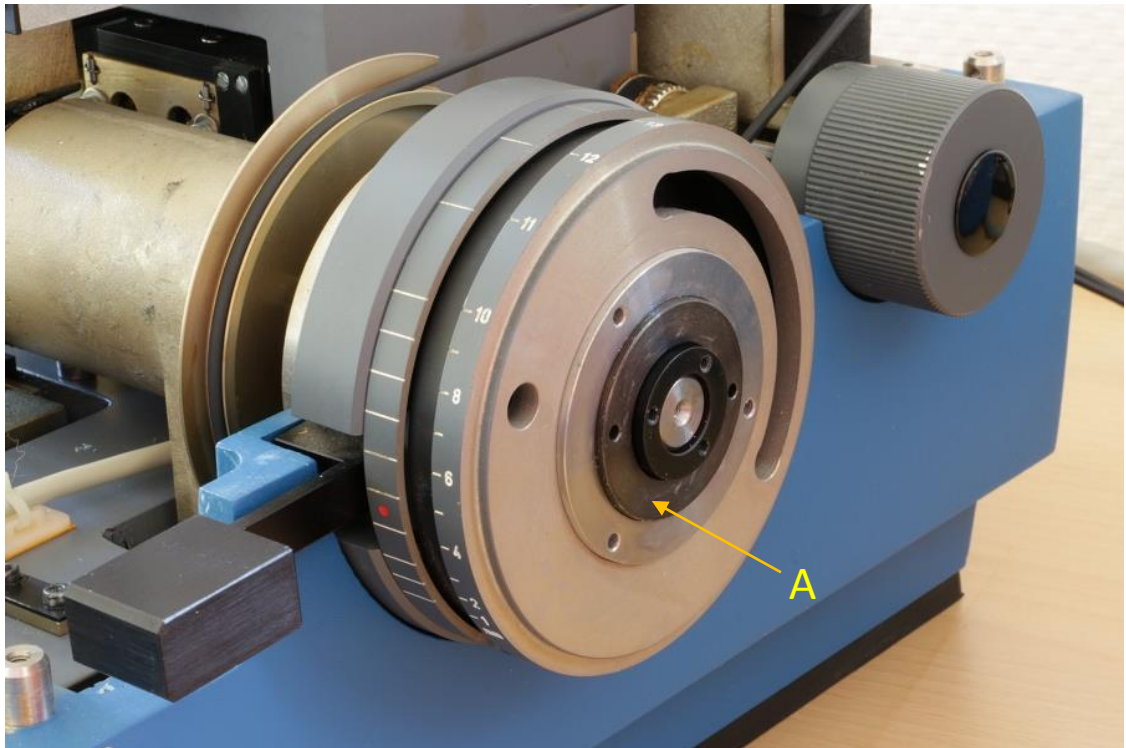
Fig 31





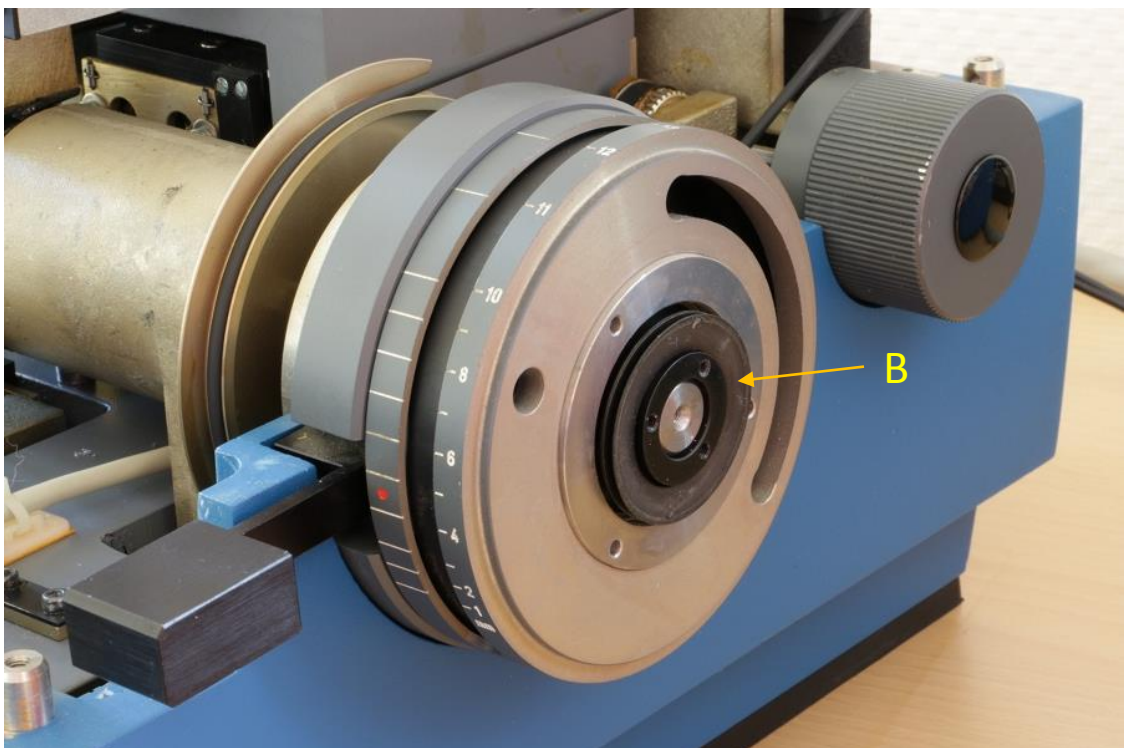
Remove tension plate 'A'.

Fig 32



Behind the tension plate are several spring rings 'B' installed. Remove the rings and store in the right position.

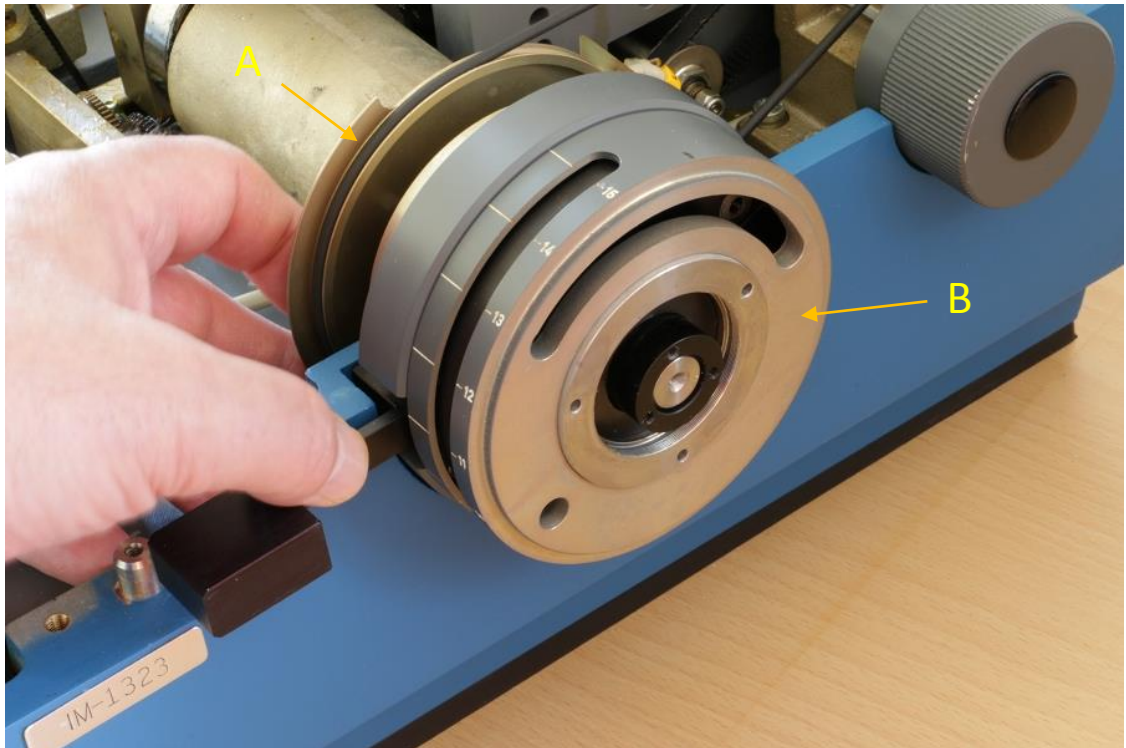
Fig 33





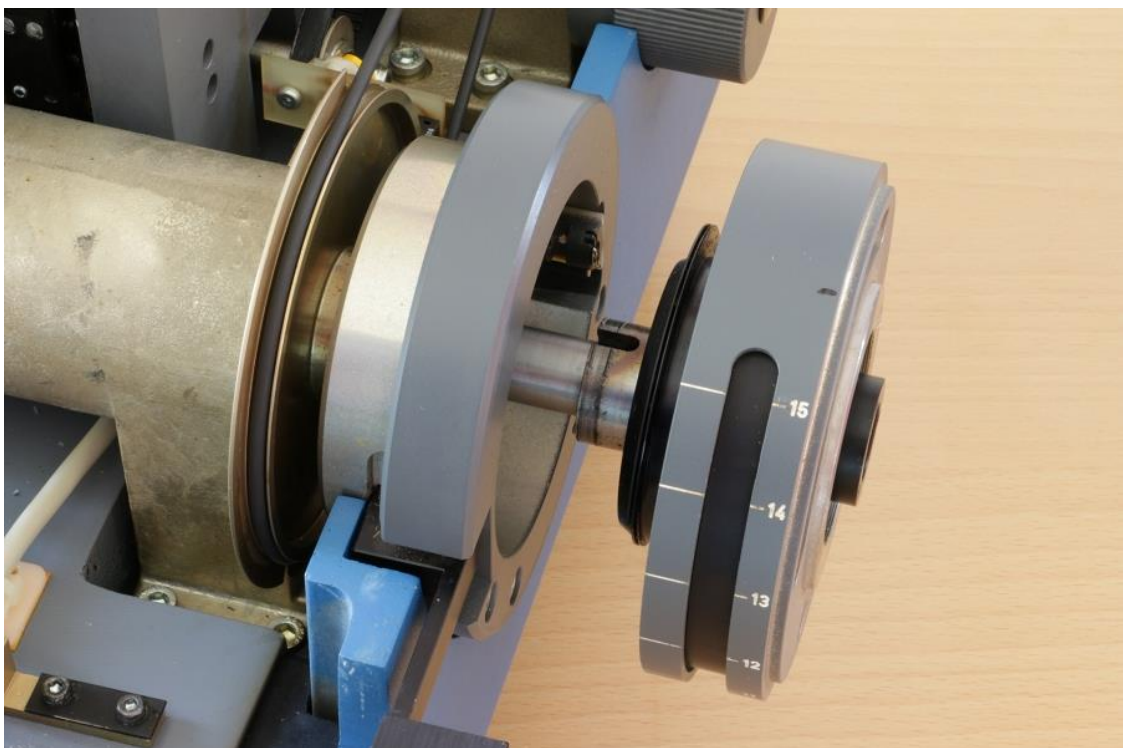
Hold beltwheel 'A' in position and remove gently housing "B".

Fig 34



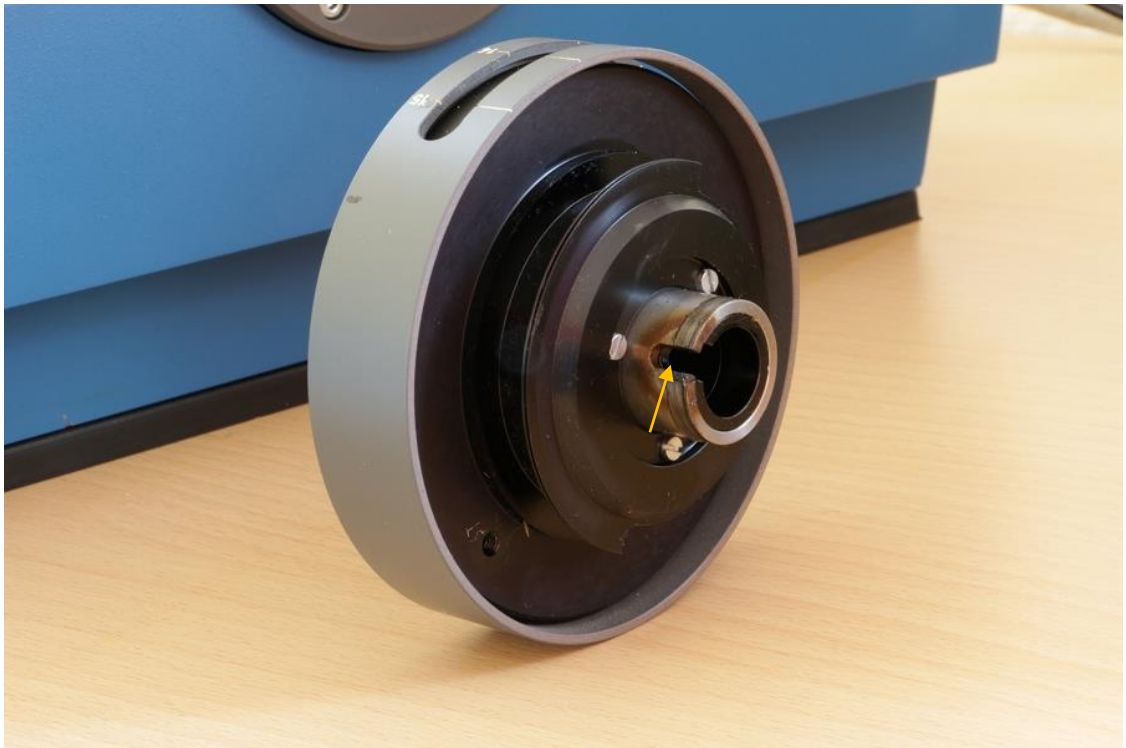
Remove the housing.

Fig 35



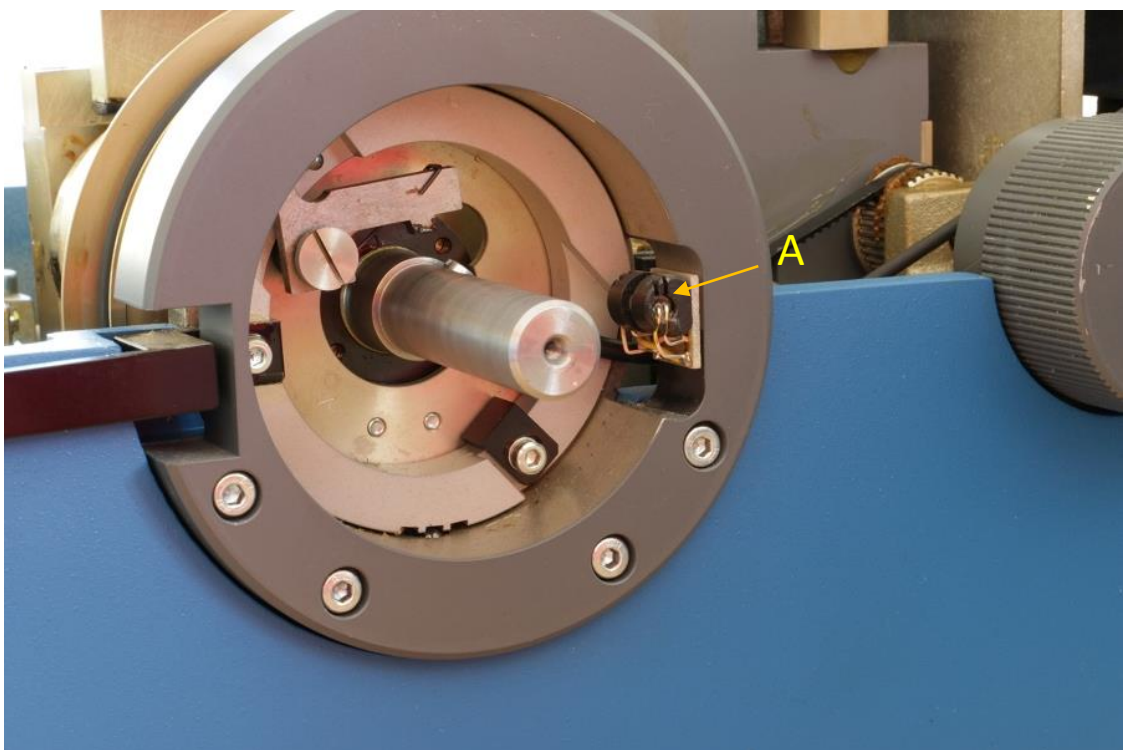
The two grooves in the housing must line up during installation.

Fig 36



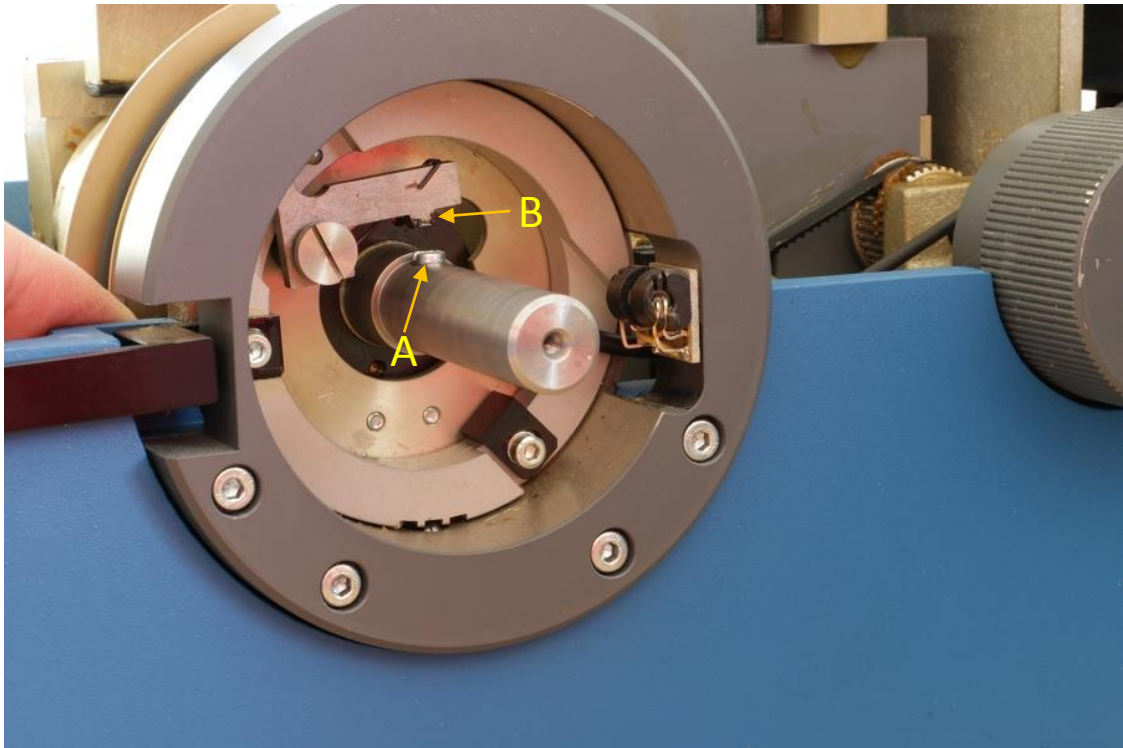
‘Caution’; be carefull with the microswitch and the opto switch ‘A’.

Fig 37



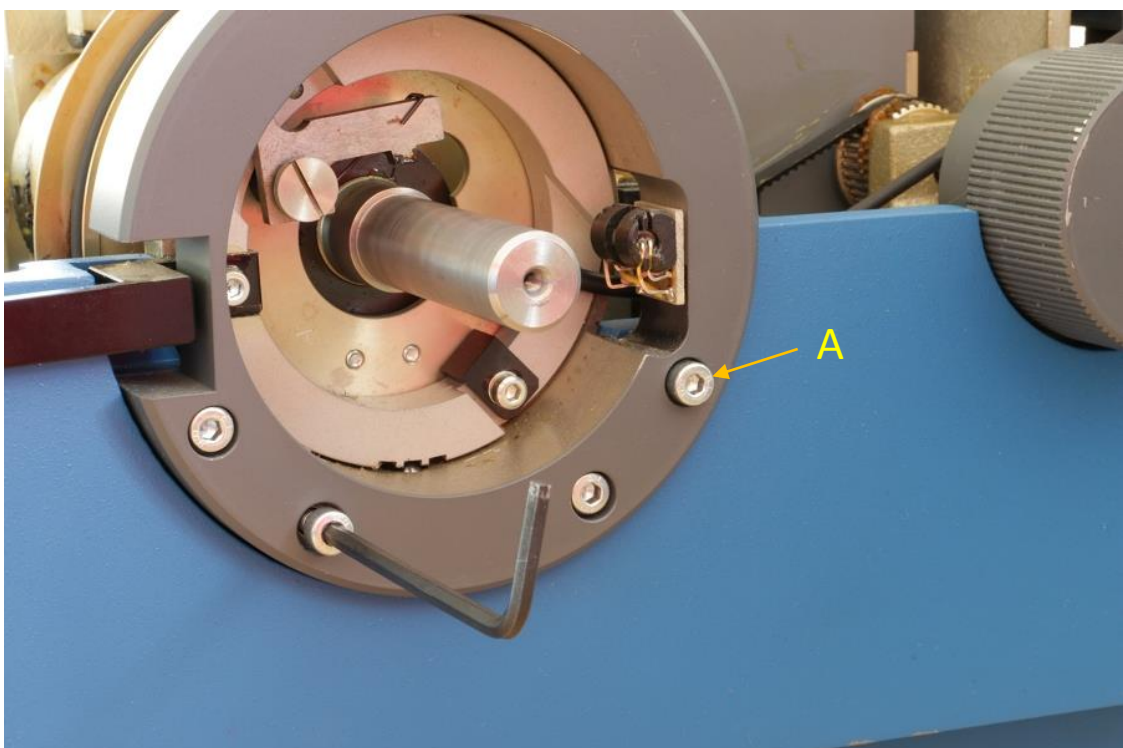
The two grooves in the housing (Fig 36) must line up with notch 'A' and 'B'.

Fig 38



Remove four screws.

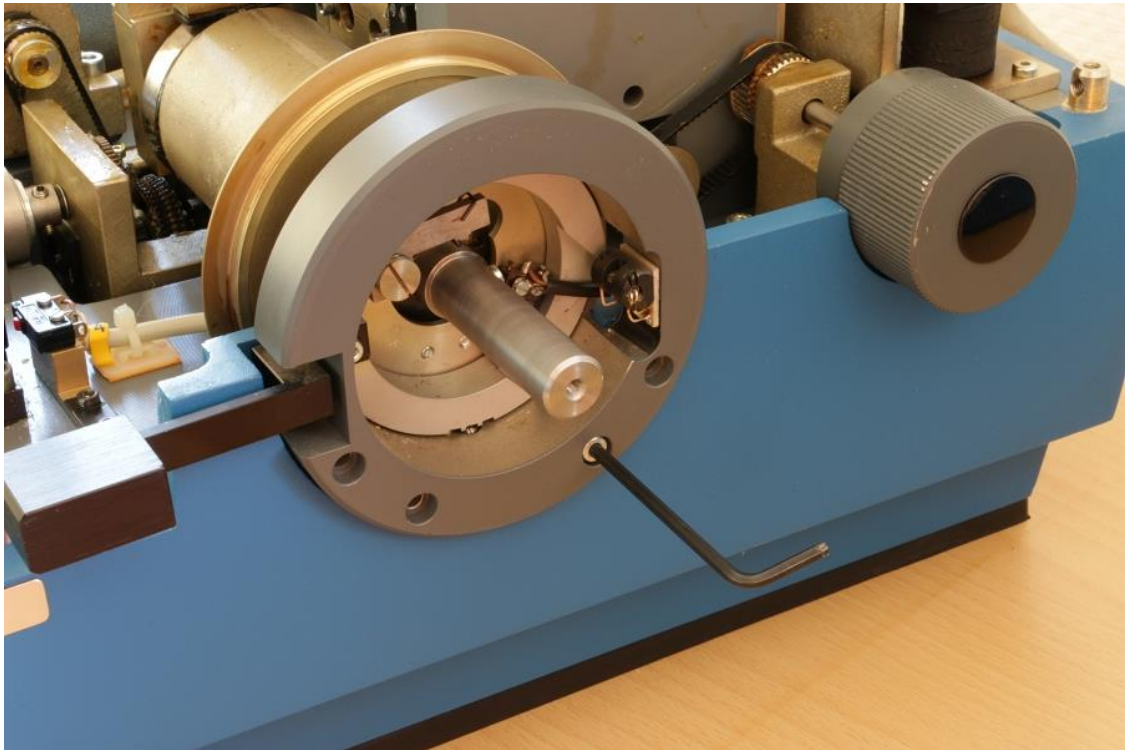
Fig 39





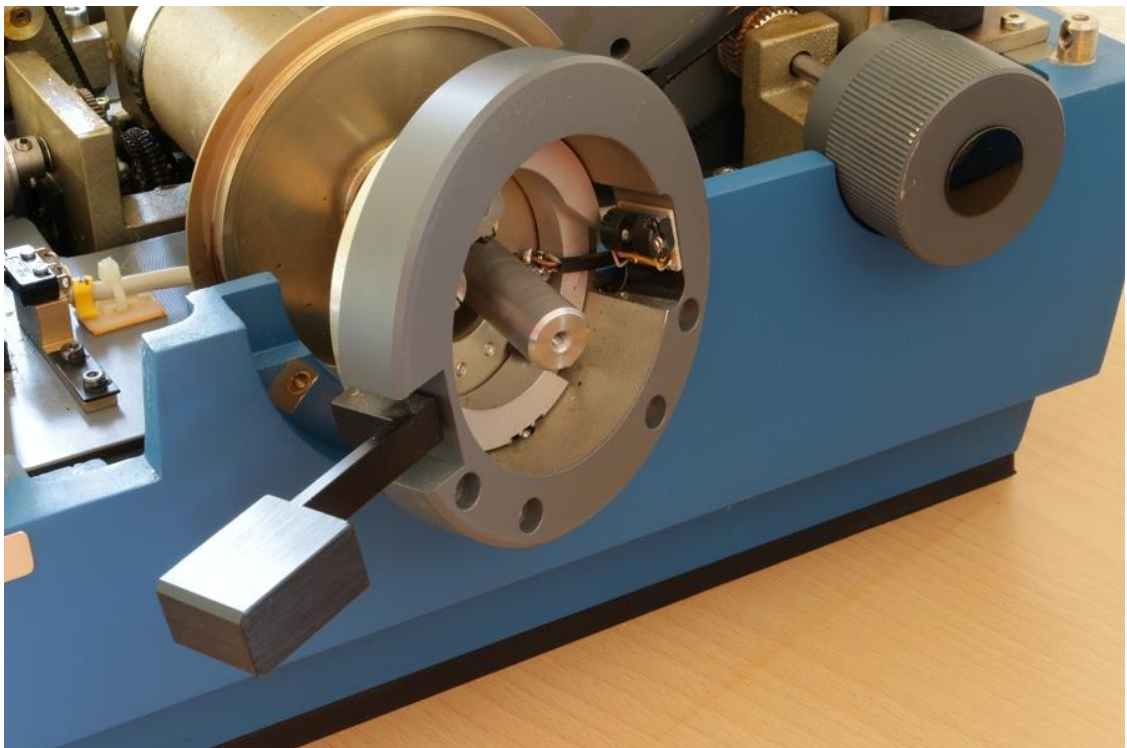
If the last screw is removed, the housing with the switches is free to move (be careful to the switch wiring etc).

Fig 40



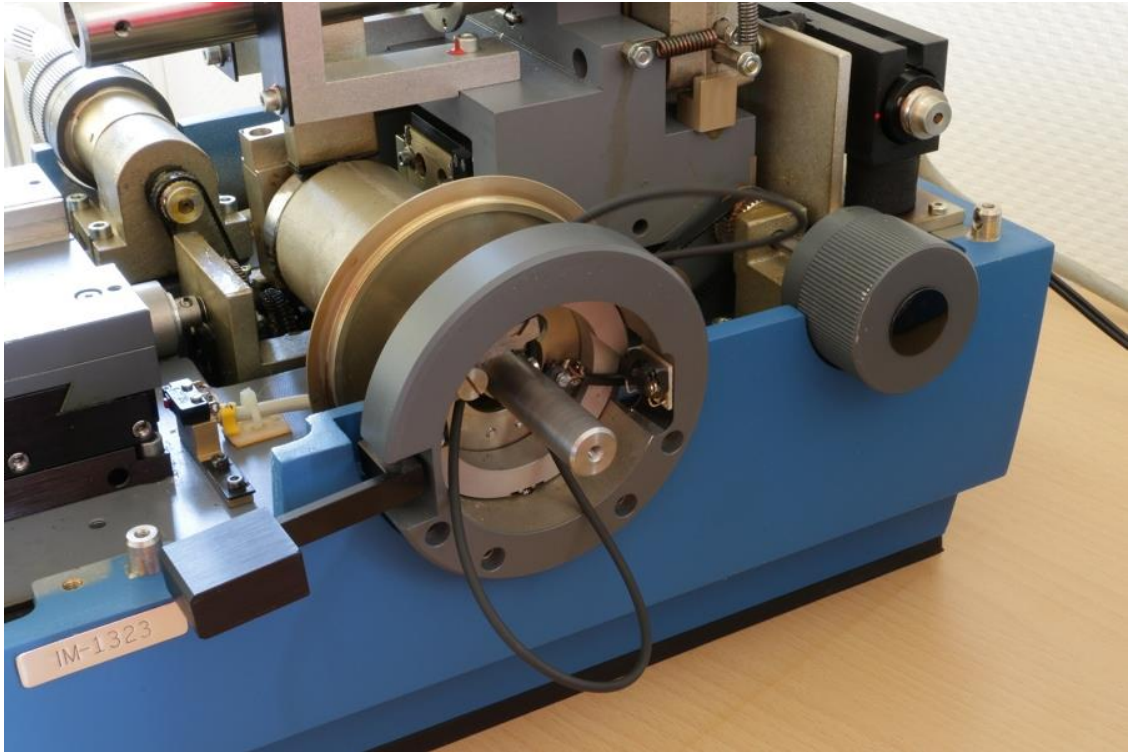
Gently move the housing so far that the new drive belt can be installed through the hole.

Fig 41



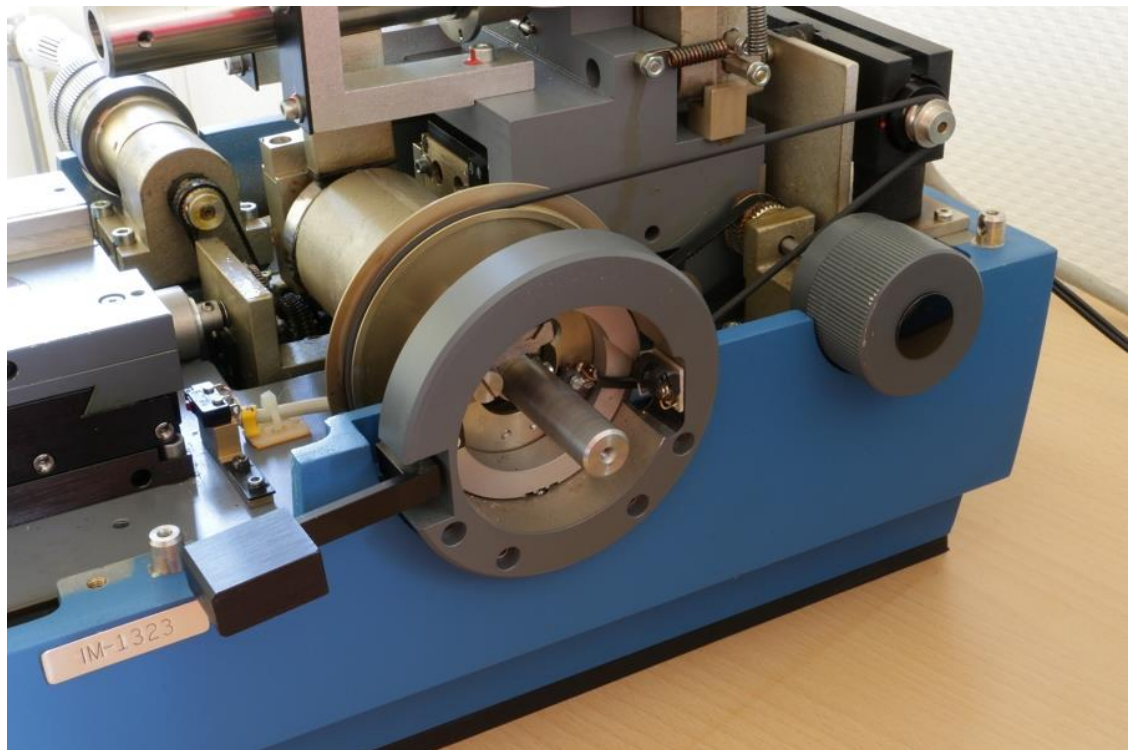
Install the new belt using the space in the housing.

Fig 42



Install the belt over the small servomotor wheel and the bigger microtome wheel.

Fig 43





The installation is finished.  
All parts should be installed in the opposite direction.

Fig 44

