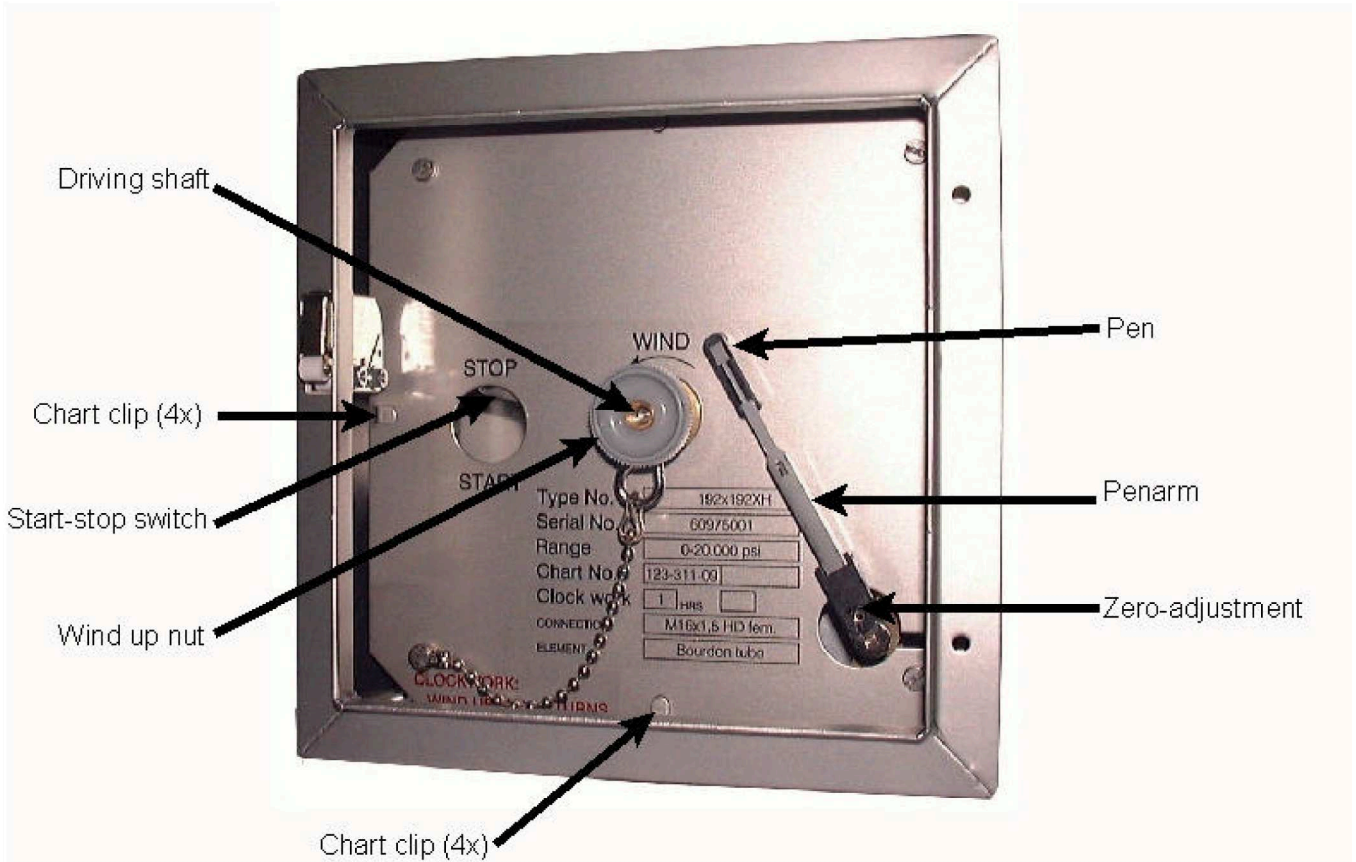


# CALIBRATION MANUAL CHART RECORDERS



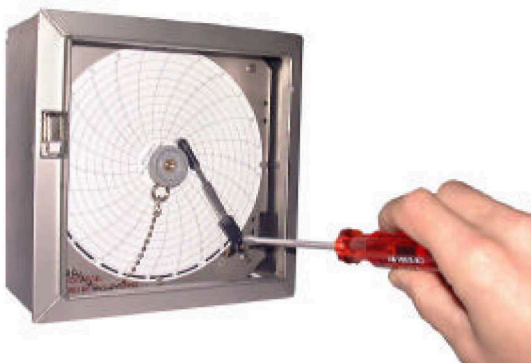
Above you see the important parts required to operate the recorder properly.



Example of disposable felt pen with protective cover



Removing the pen from the pen arm.



Zero-adjustment: Turn the plastic screw gently. **At normal usage zero-adjustment is not required.**

# Disassemble the recorder



Remove the 4 M 4 screw nuts which are located on the back of the case.



After removing these nuts you can remove the entire door by pulling it forward.



Loosen the pointer fixation screw.



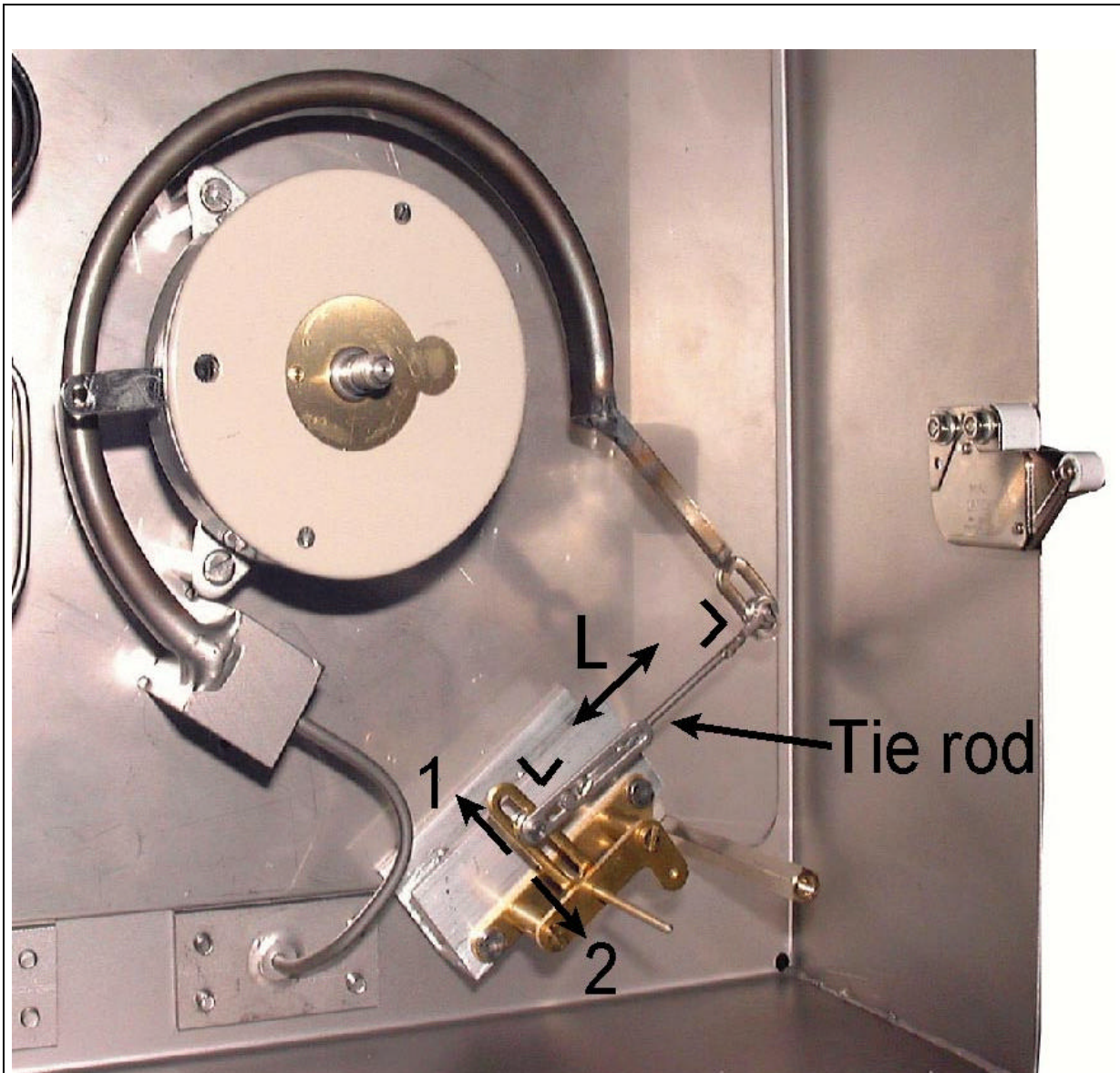
Remove the pointer with a pointer puller.



Remove the front plate(on which the recorder chart is turning) by loosening 4 screws.



## Calibration of a pressure recorder



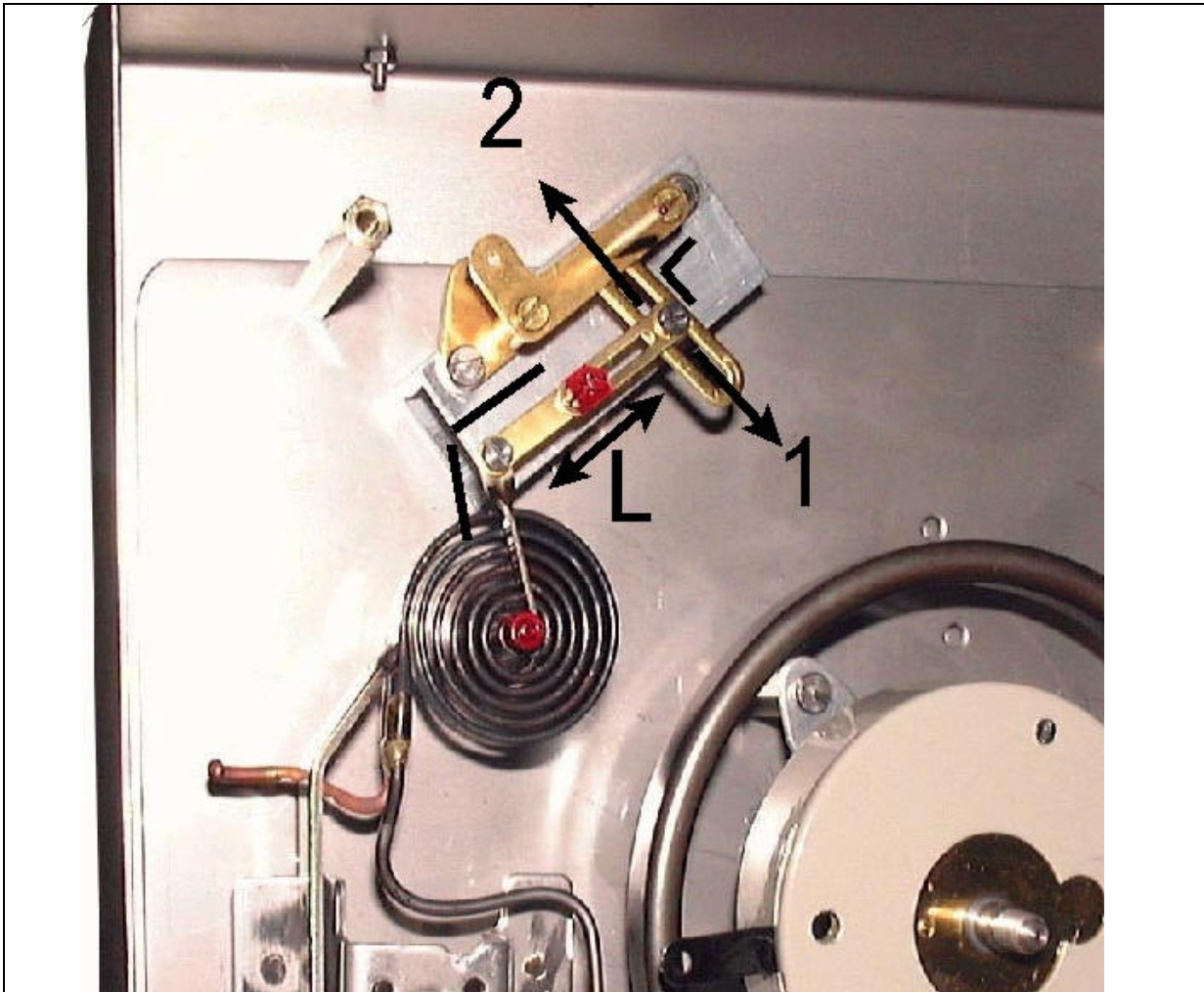
The angles between the tie rod and the movement and between the tie rod and the bourdon tube should at 50% of the maximum pressure both  $90^\circ$ .

Move the tie rod to 1 if the pointer angle is too big.  
Move the tie rod to 2 if the pointer angle is too small.

Enlarge L if the second half of the scale should be shorter.  
Reduce L if the first half of the scale should be shorter.



## Calibration of a temperature recorder



The angles between the tie rod and the movement and between the tie rod and the sensing element should at max. temperature both be about  $90^\circ$ .

Move the tie rod to 1 if the pointer angle is too big.  
Move the tie rod to 2 if the pointer angle is too small.

Enlarge the angle between the tie rod and the sensing element if the first half of the scale should be shorter (L should stay the same).

Reduce the angle between the tie rod and the sensing element if the second half of the scale should be shorter (L should stay the same).

## Assemble the recorder

Assemble the recorder in conversely way of disassemble. The pointer has to be fastened and adjusted on 0 for pressure recorders. For temperature recorders the pointer has to be fastened at a specific temperature of the bulb.