

MAGNETI MARELLI

Wheel balancer MM-WB1024

User's manual

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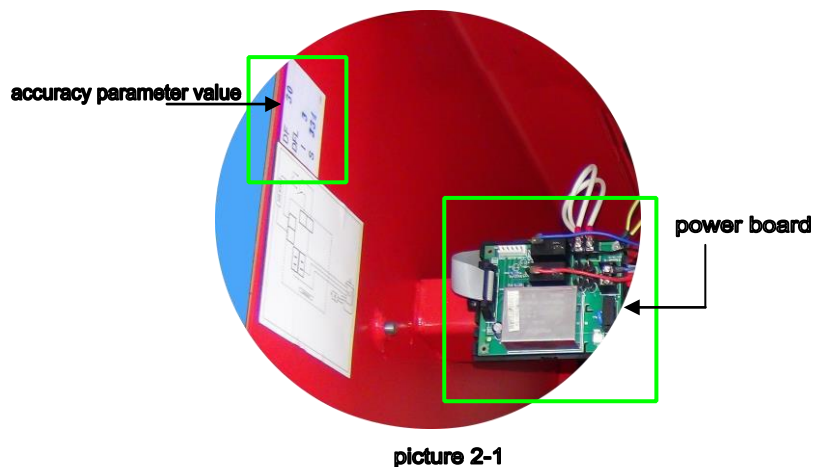
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1. Accuracy parameter inputing method and adjusting method

1.1 About the accuracy parameter :

the machine parameter is comforted before leave factory, we sticked a label inside the machine cabinet,the position is showed as the following sketch picture 2-1



1.2 Accuracy parameter inputing method :

Please follow the manual instruction, enter the self-calibration menu as below Fig.2-2.



When the machine show the calibration menu, please press the key “a+, a-, ALU” ordinal, enter to the precision data value input menu. First, enter the DF data value menu, show as below Fig.2-3, please press key “b+ / b-” to increase or decrease the value.

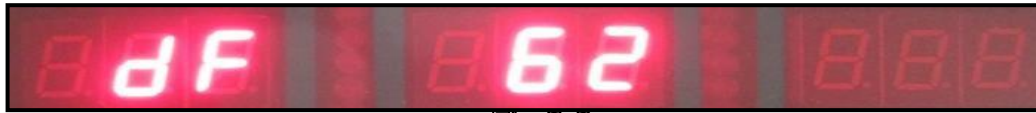


Fig.2-3

Press key a+, switch to I data value menu, show as below fig.2-4, please press key “b+/b-” to increase or decrease the value.



Fig.2-4

Press key a+, switch to S data value menu, show as below fig.2-5, please press key “b+/b-” to increase or decrease the value.



Fig.2-5

Must be do calibration after finish input data

2. complete shaft adjustment

2.1 Piezoelectric sensor assembly disassembly/assembly, adjusting and maintenance method

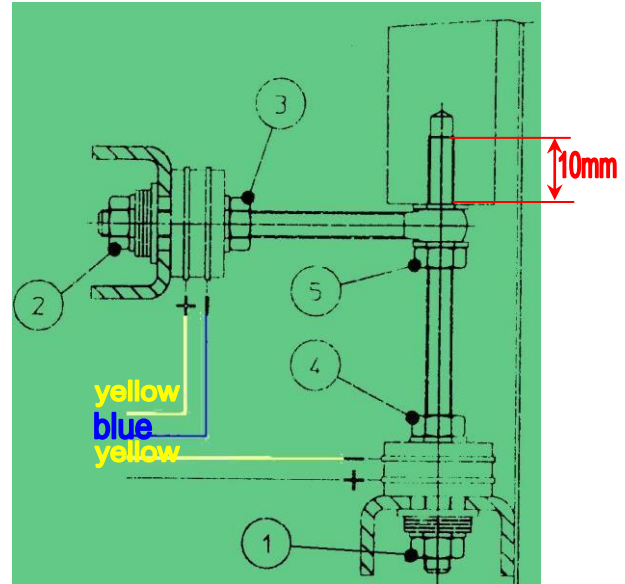


warning: the following operation will destroy the factory assembly, be sure to operate by the professional :

The disassembly and assembly steps: perpare a 17# open-ended spanner and a 17# sleeve

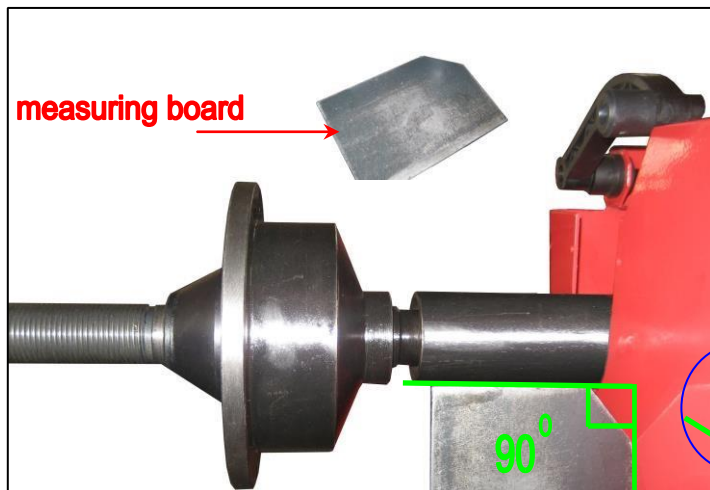
1. Remove the weight shelf. Remove nuts 1 and 2 with relative cup springs and washers.
2. Back-off screws 3, 4 and 5 then disassemble the various parts.
3. Reassemble the various parts without tightening the nuts being careful to follow the correct sequence.

N.B. Mount the piezo units in accordance with the position of the colored wires shown in the drawing.

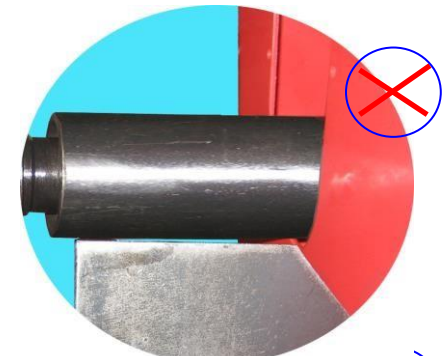


4. Keeping the spindle perfectly aligned, tighten nut 5 with a spanner, and nuts 3 and 4 by hand (by half a turn with the spanner if necessary).
5. Refit the washers, cup springs and nuts 1 and 2. Tighten the nuts fully in order to fully regain the elasticity of the cup springs, This will automatically ensure correct pre-loading on the piezo (a torque wrench can be used set to 400kg·cm.).
6. For correct operation, insulation of the piezo crystals should be greater than 50 M ohm.
7. Reassemble the various parts. 8. Again carry out the automatic calibration.

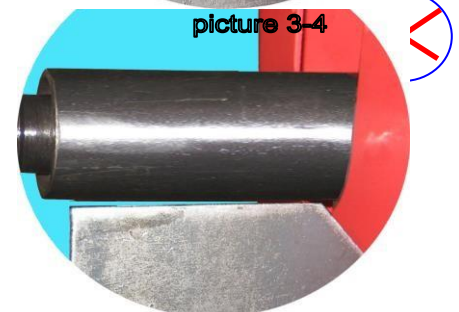
Must be confirmed that the complete shaft should perpendicular to the machine body before screw down. Please see the following showed sketch picture 3-3, 3-4 and 3-5.



picture 3-3



picture 3-4



picture 3-5

Picture-3 showing that complete shaft and machine body form an angle of 90 degree, this is the standard assembly;

Picture 3-4 showing that complete shaft and machine body form an angle less-than 90 degree,this is incorrect assembly. Please adjust the nut ②and③.

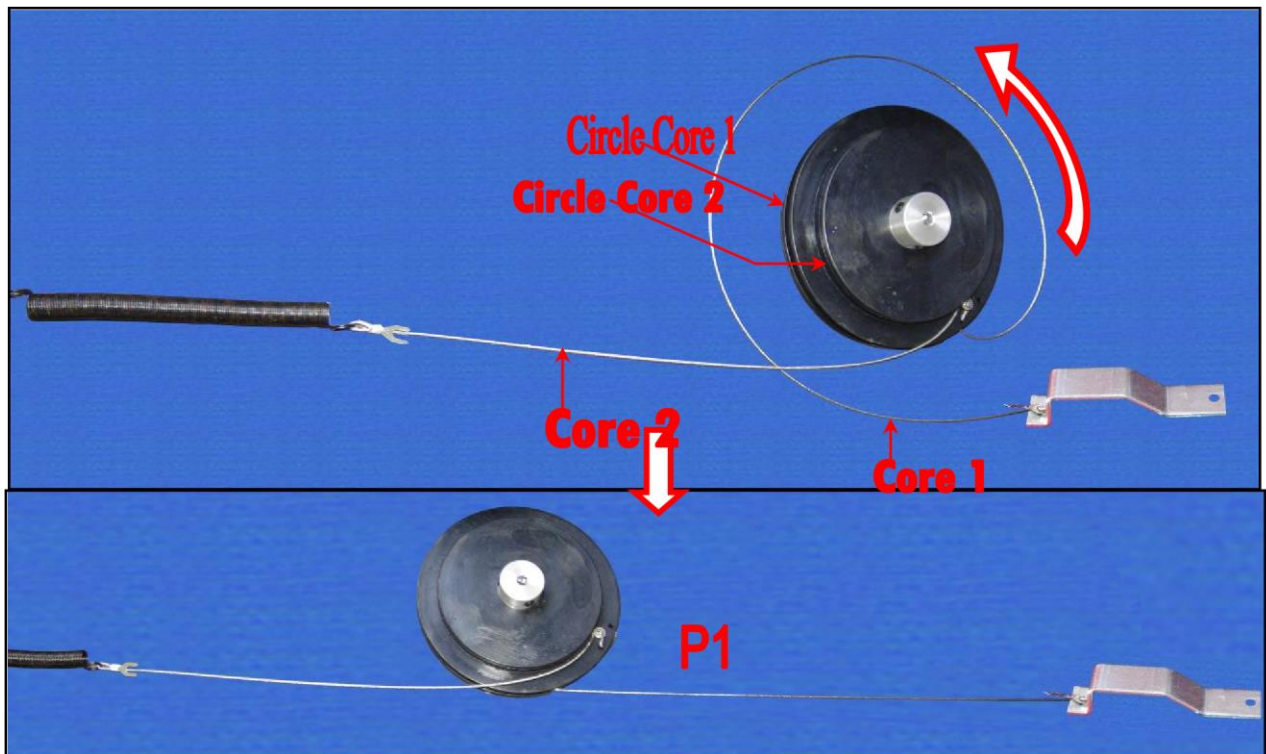
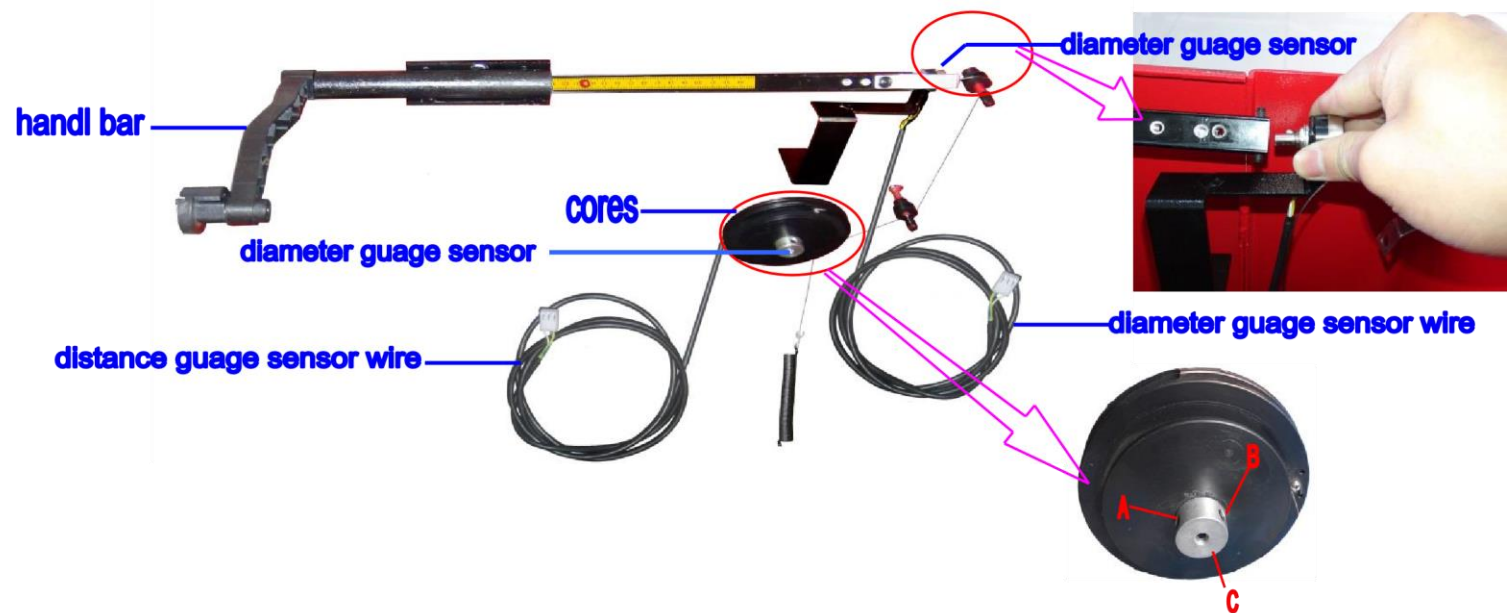
Picture 3-5 showing that complete shaft and machine body form an angle greater than 90 degree,this is also incorrect assembly too. Please adjust the nut ②and③.

3. Scale disassembly, assembly, adjusting and maintenance method

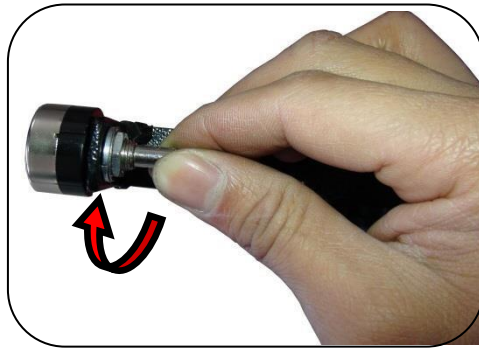
3.1 Diameter sensor and distance scale sensor

Please check if the following parts with red circle marked loose, check if the screw in the red marked loose .

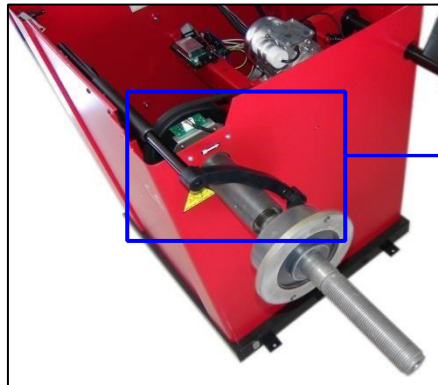
2, please refer to the photo P1, to check if the cores have been random.



When you install the Gauge sensor again, please screw to the Clockwise twist to the limit position, then install, as the following photo.



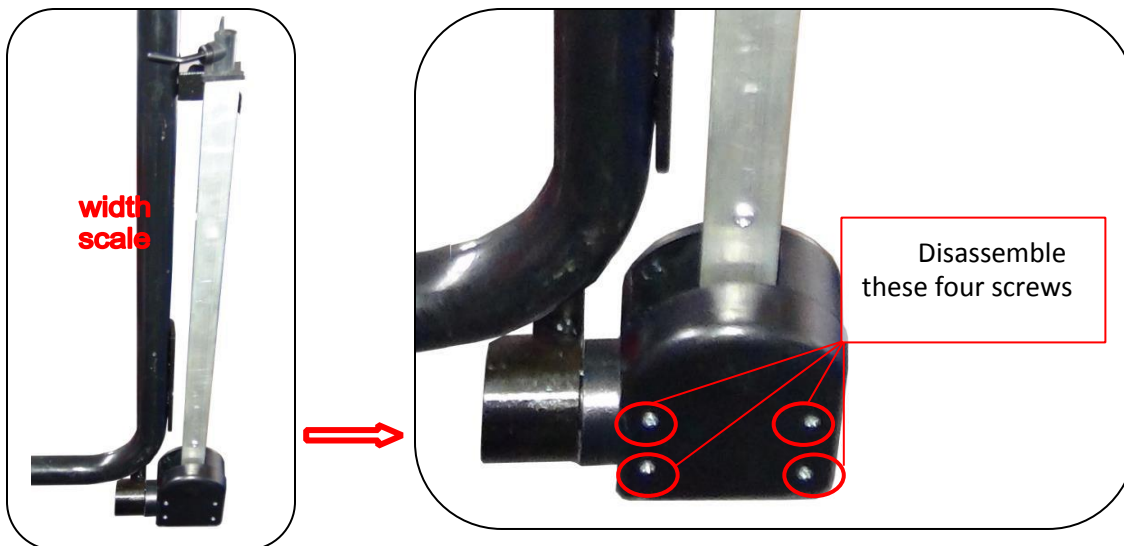
Attention when installing the diameter ruler.



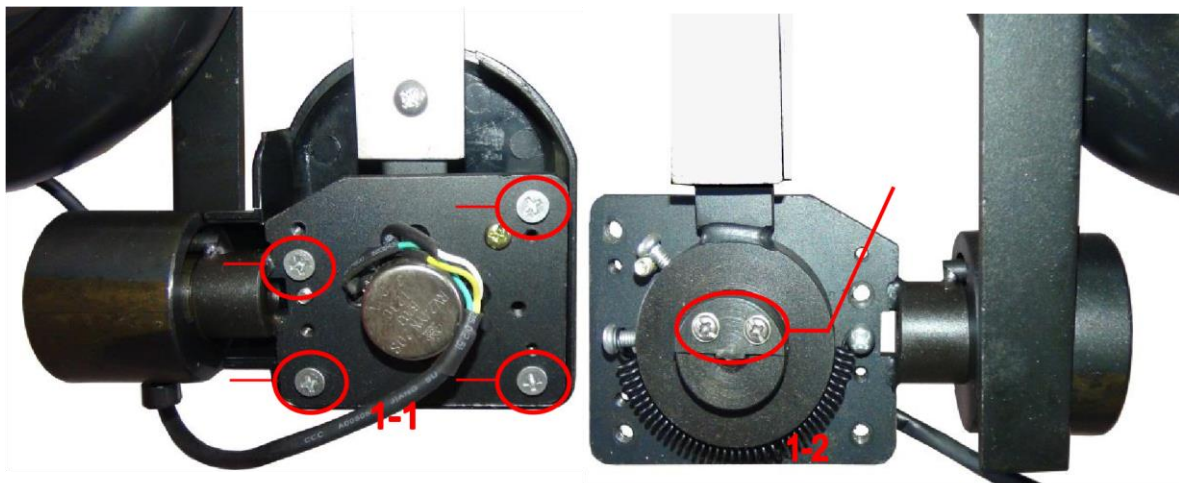
when installing the diameter guage sensor, the handle bar must be kept as this station whichstick the complete shaft tightly, as left photo.

3.2 Width scale sensor assembly / disassembly and adjusting method:

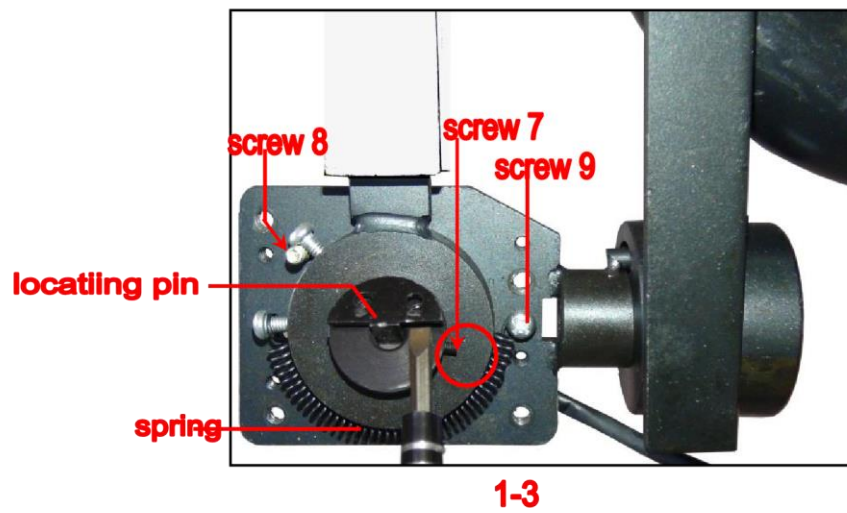
First step:



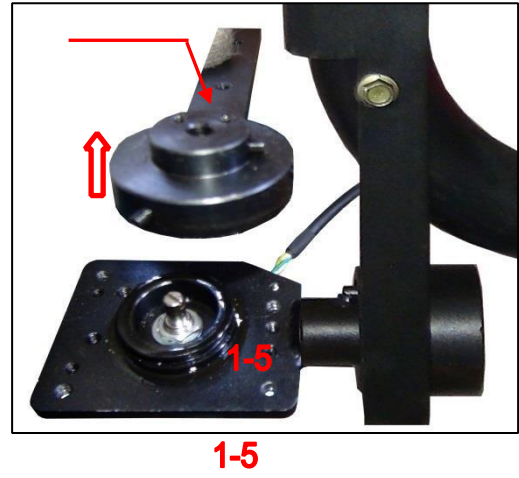
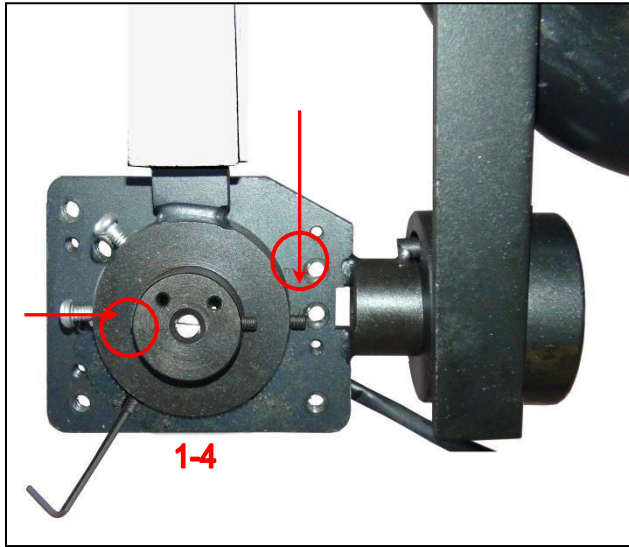
Second step:



Third step:



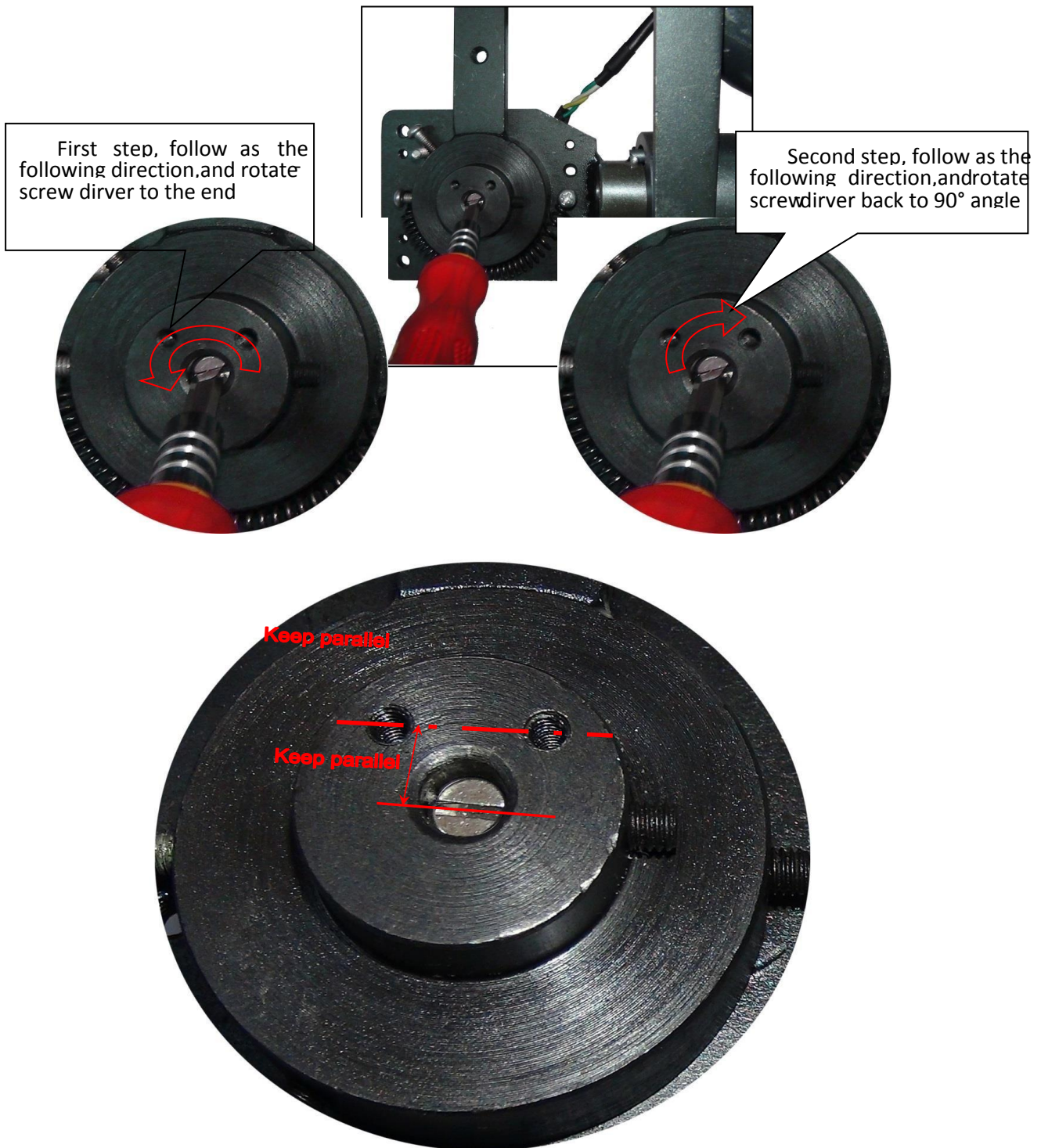
Fourth step



First step :



Third step:



4. Dismantle of the photoelectric sensor

Pls take off the two screws(remark with red circle part),then the user can take off the photoelectric sensor, show as below picture Fig5-1.(Pls do not take off the blue box screws ,due to the accuracy of the machine will be influenced).

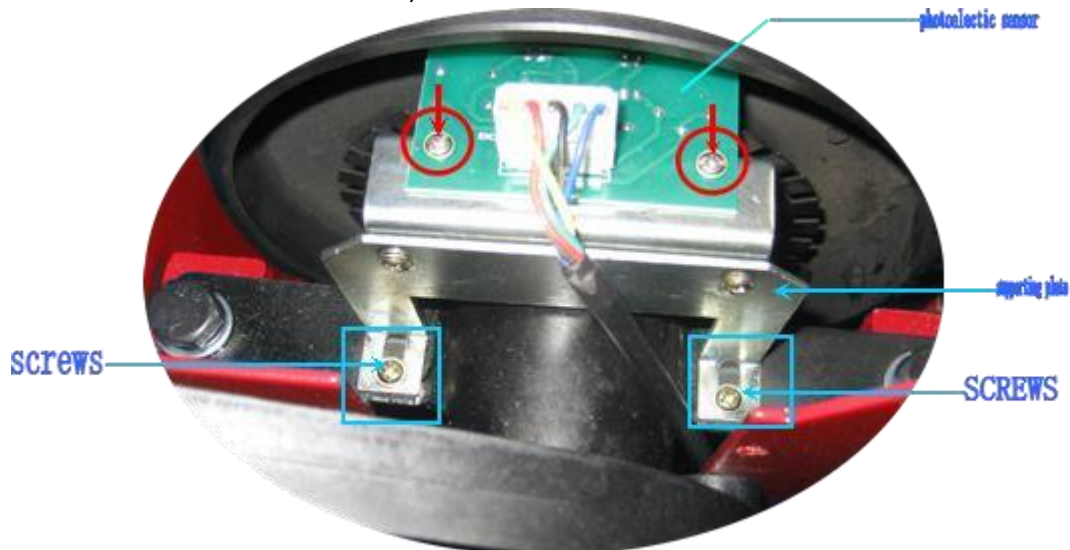


Fig5-1

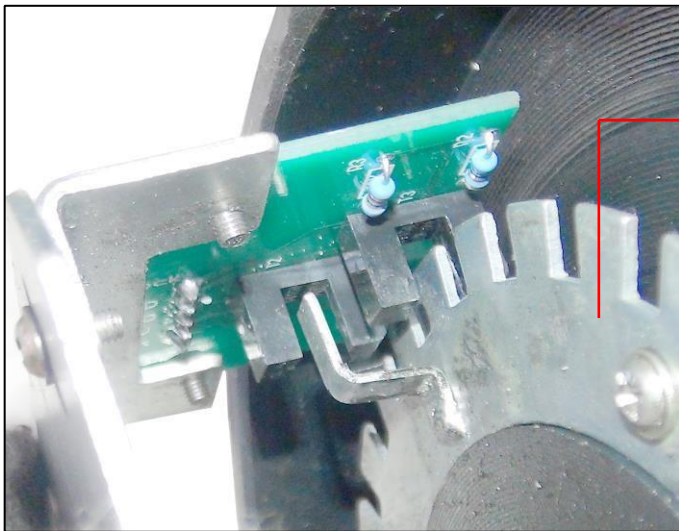
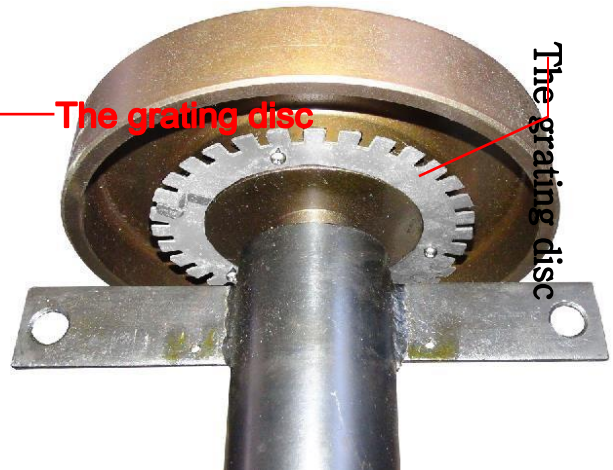
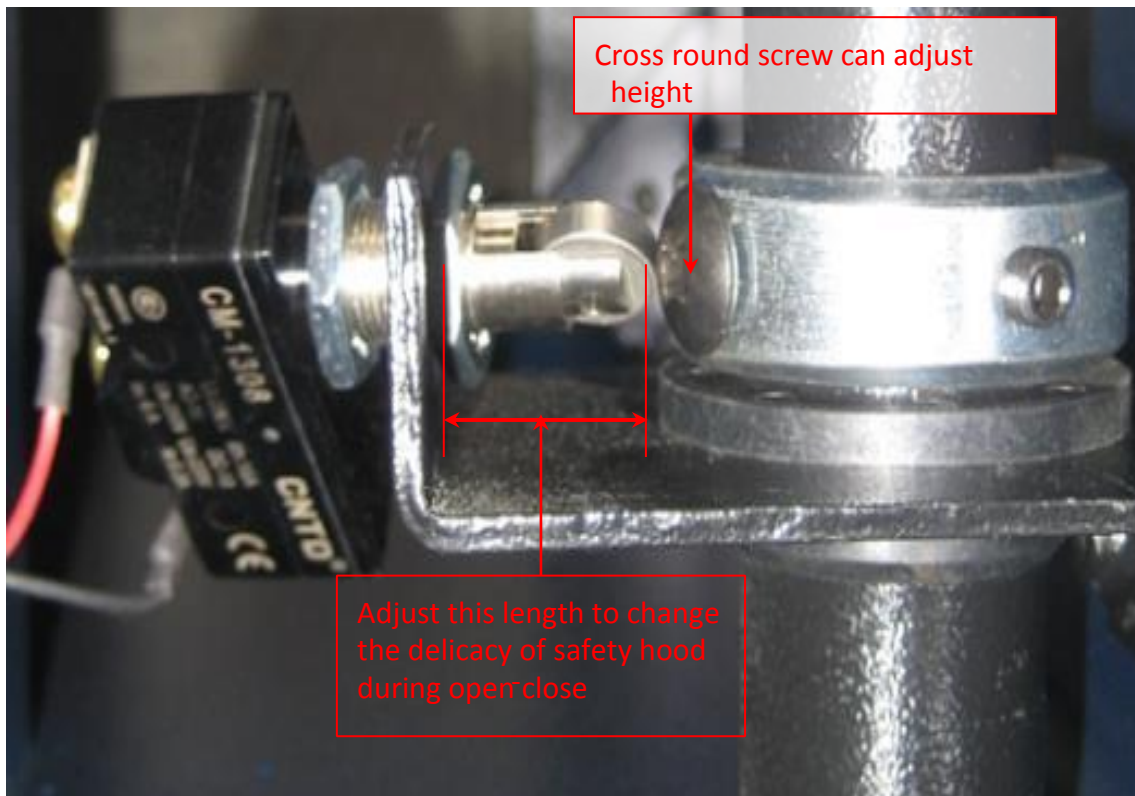


图5-2



5. Safety hood micro-switch adjustment:

If the micro-switch replaced by technician during maintenance, please adjust the machine according to the practice situation. Once close the safety hood, please make sure the microswitch can pushed by the cross round screw and cut off protection function.



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