

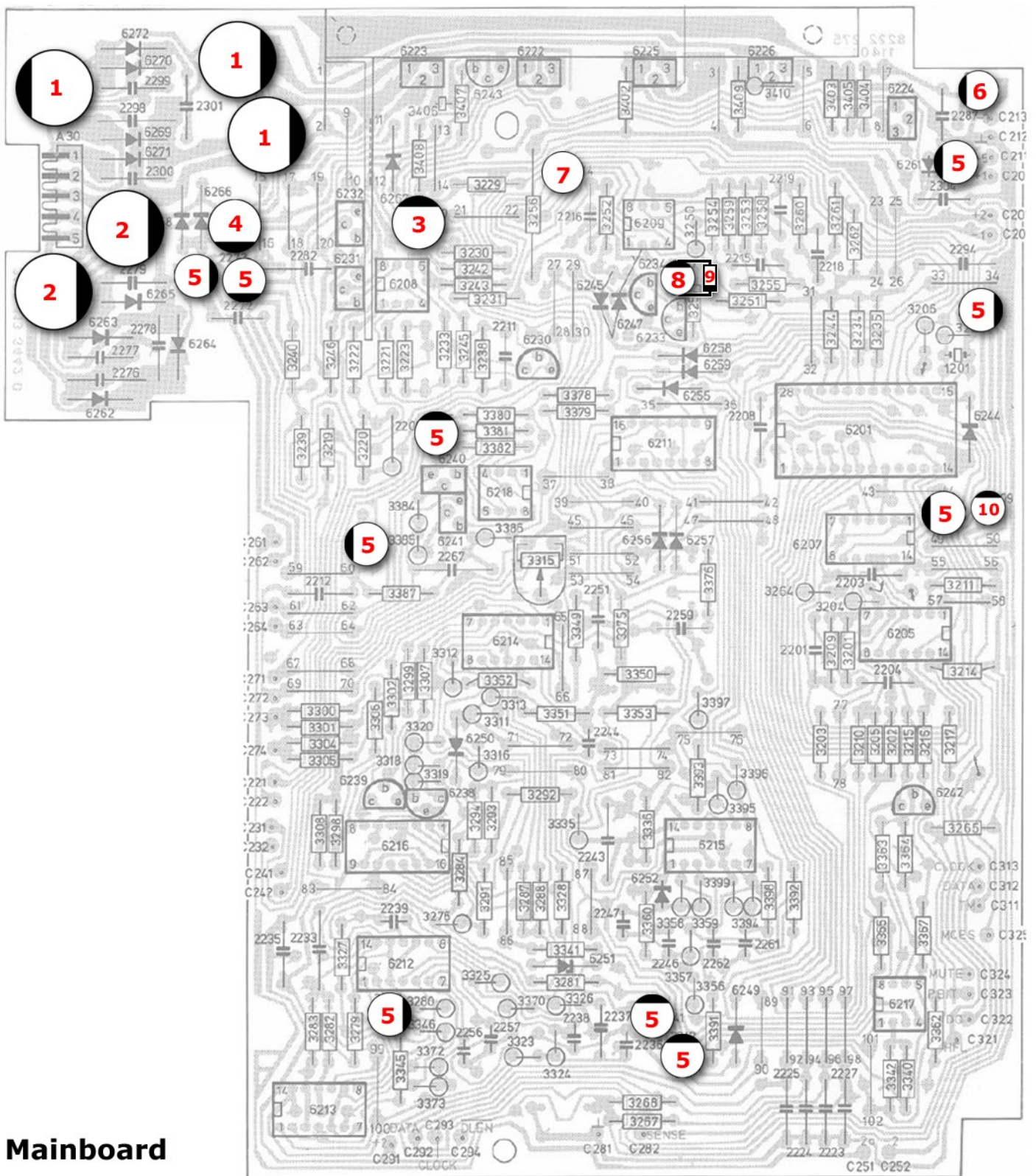
Worksheet Revision for **Philips CD 100** metronom Philips CD 101, Marantz CD63, Grundig CD30, Magnavox FD1000



The worksheet revision summarizes necessary work, settings and the addition of metronom at a glance. The work is necessary in order to maintain the functional state and to develop the full performance. Do not add anything and leave nothing. The most common bugs are fixed with this worksheet. The work requires experience and equipment. Depending on the series, deviations in the assembly may occur - not all capacitors from the revision set must always be installed.

The revision set is to order at our Website:

<https://dindiki.com/?revision#Philips-CD100>



Mainboard

- 1** 3x 2200/16 FC Panasonic
- 2** 2x 1500/25 FM Panasonic
- 3** 1x 100/50 FC Panasonic
- 4** 1x 100/25 FM Panasonic
- 5** 10x 33/35 FM Panasonic
- 6** 1x 22/50 FM Panasonic
- 7** 1x 15 bipolar *on older boards a polar may be changed
- 8** 1x 3.3/50 FC Panasonic *on older boards change from 15μF
- 9** 1x ZF7.5 Diode (parallel with **8**) *
- 10** 1x 1/50 M Panasonic

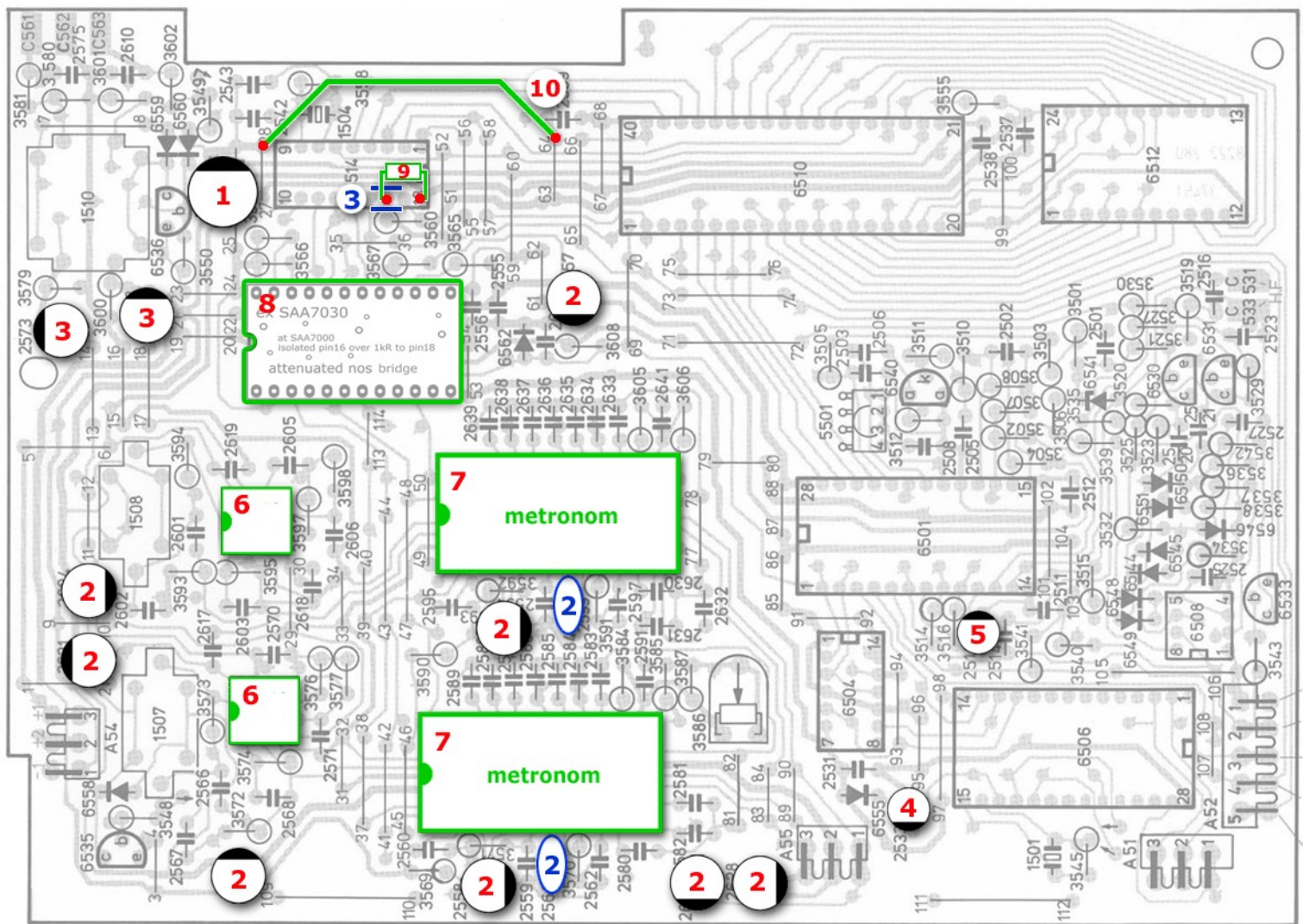
*If there is a 3,3μF **8**, there will be a ZF7.5 **9** already nearby.

Transformer

Switching from 220V to 230V
Release phase **L** at 4 and to 5

5 **2** **3**

1 **F** **N** **4**



Analog board

- 1** 1x 150/50 FM Panasonic *1
- 2** 8x 22/50 FM Panasonic for **CD100** / 8x 47/25 FM Panasonic for **CD101**
- 3** 2x 22/50 FM Panasonic for **CD100** / 2x 47/25 FM Panasonic for **CD101** *2
- 4** 1x 1/50 M Panasonic
- 5** 1x 1/50 M Panasonic *3

*1 not on all boards

*2 polar output capacitors may exchanged for bipolar ones, a 22µF bipolar electrolytic is recommended, no foils

*3 not on all boards. An existing 100n foil may exchanged with the 1/50 electrolytic

OP-amp

- 6** 2x OP-amp

metronom modules

- 7** unsolder existing sockets or TDA1540
soldering in the metronom modules
remove two film capacitors **2**
insert the TDA1540 into the metronom modules

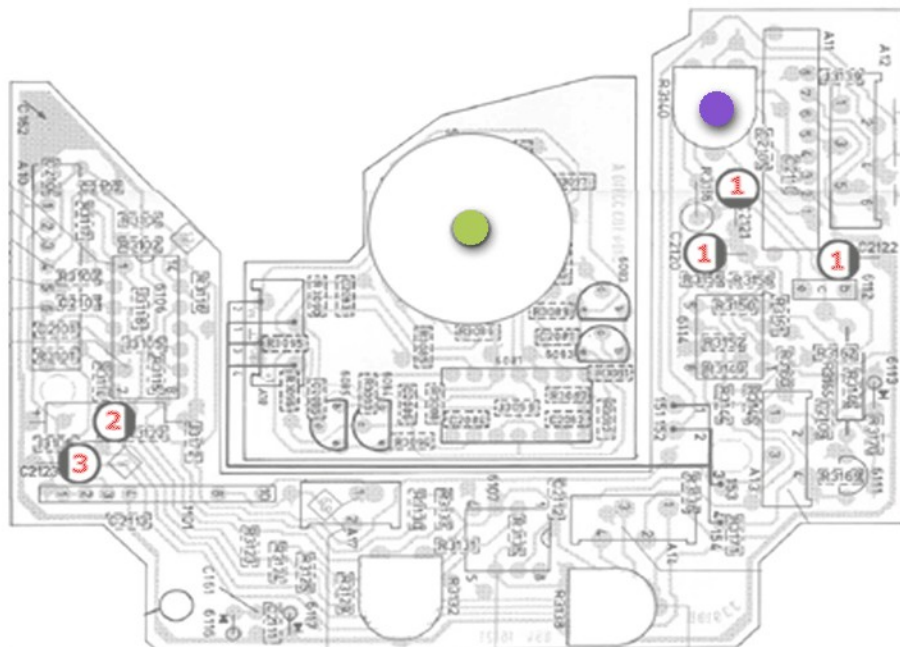
attenuated NOS bridge no oversampling option

- 8** unsolder SAA7030
soldering in the attenuated NOS bridge
at SAA7000 isolate PIN16 by cutting the traces at both sides **3**
- 9** solder a 1k Ohm resistor from PIN16 to PIN18 on the underside
- 10** solder a cable from one wire bridge to the next one



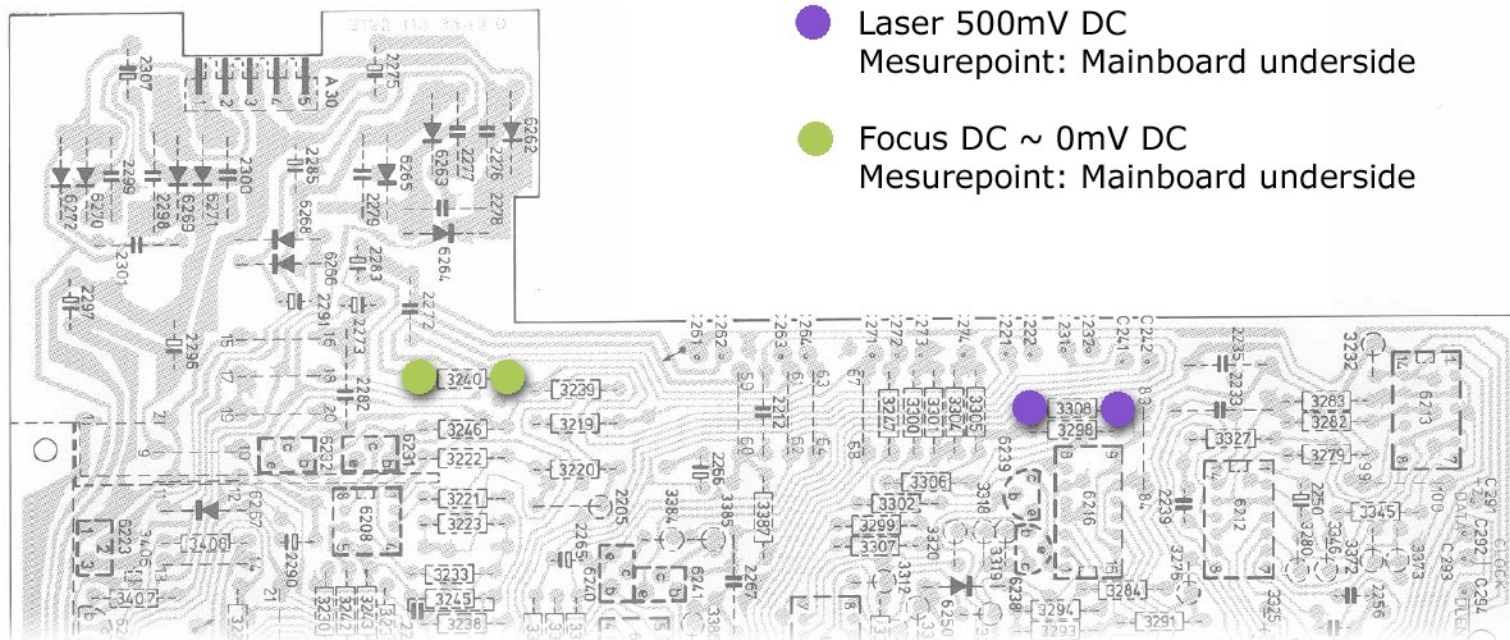
6. Laserprint

- 1** 3x 33/35 FM Panasonic Laser
- 2** 33/35 FM Panasonic -12V
- 3** 33/35 FM Panasonic+11V



Settings

- Laser 500mV DC
Mesurepoint: Mainboard underside
- Focus DC ~ 0mV DC
Mesurepoint: Mainboard underside



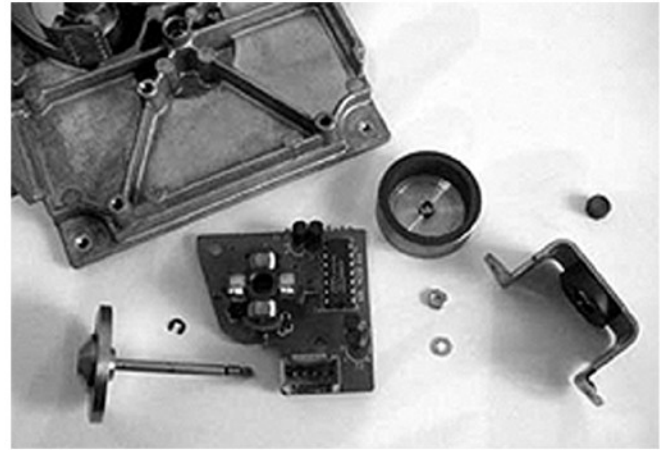
Mainboard underside



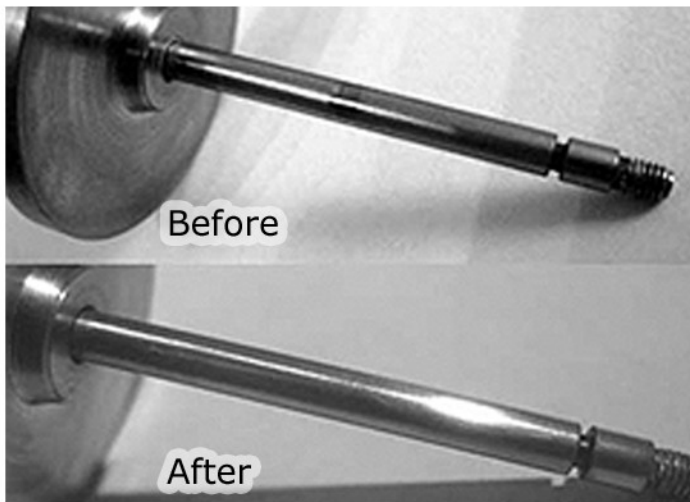
In case of a defective laser at **CD100**, an easier to obtain successor model CDM-1 Laser can be installed like on CD101. To change from CDM-0 to CDM-1, a centering spindle must be inserted into the upper magnetic slider to hold the CD. Place the slider flat on the table **2** and fix the centering spindle with a drop of glue from the back side.

Hallmotor

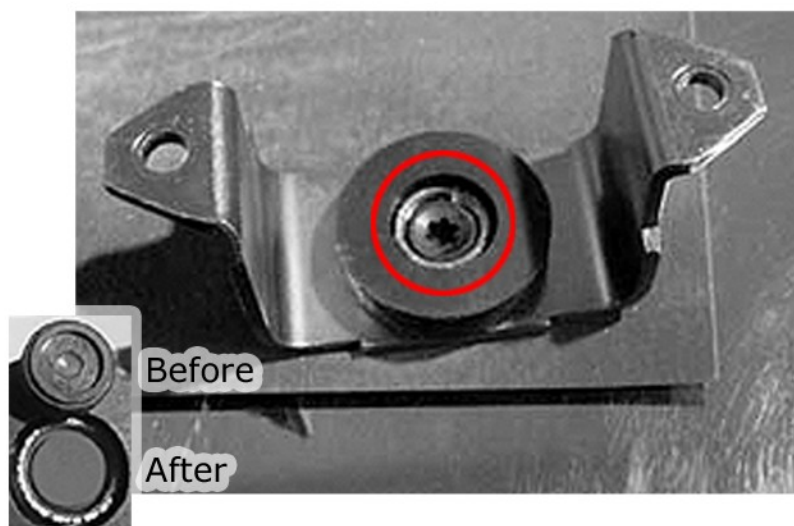
Disassemble and clean
Fitting with 1 drop of silicone oil



1. Drive axle
Cleaning and polishing (toothpaste and paper)



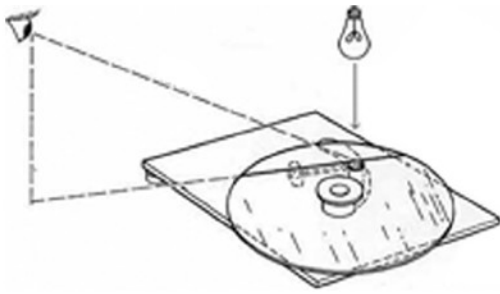
2. Axle bearing
Inverted screwed to plan with sandpaper



Laserpin

Check and adjust the scanning angle

Check for straight light



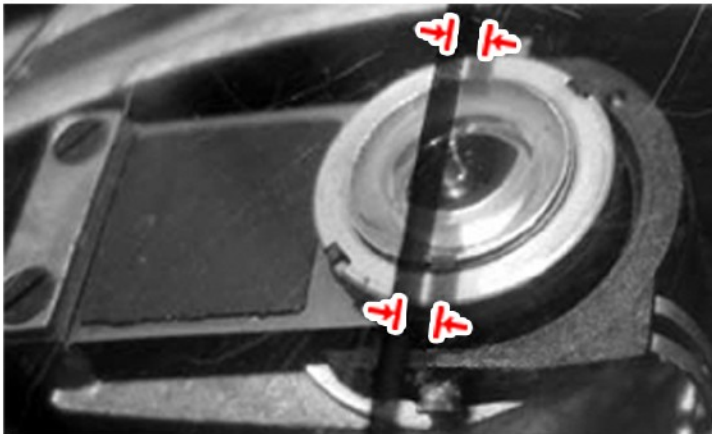
Note

This setting is not necessary in normal cases. These only occur after replacing the laser pin or if the screws shown have been loosened.

Transparente Test-CD mit Strich erstellen
Create transparent test CD with line



Maximum deviation of the shadow 4mm
2 Measurements with different angles



Loosen screws to move the angle adjustment
Ensure smooth operation of the turning arm

