

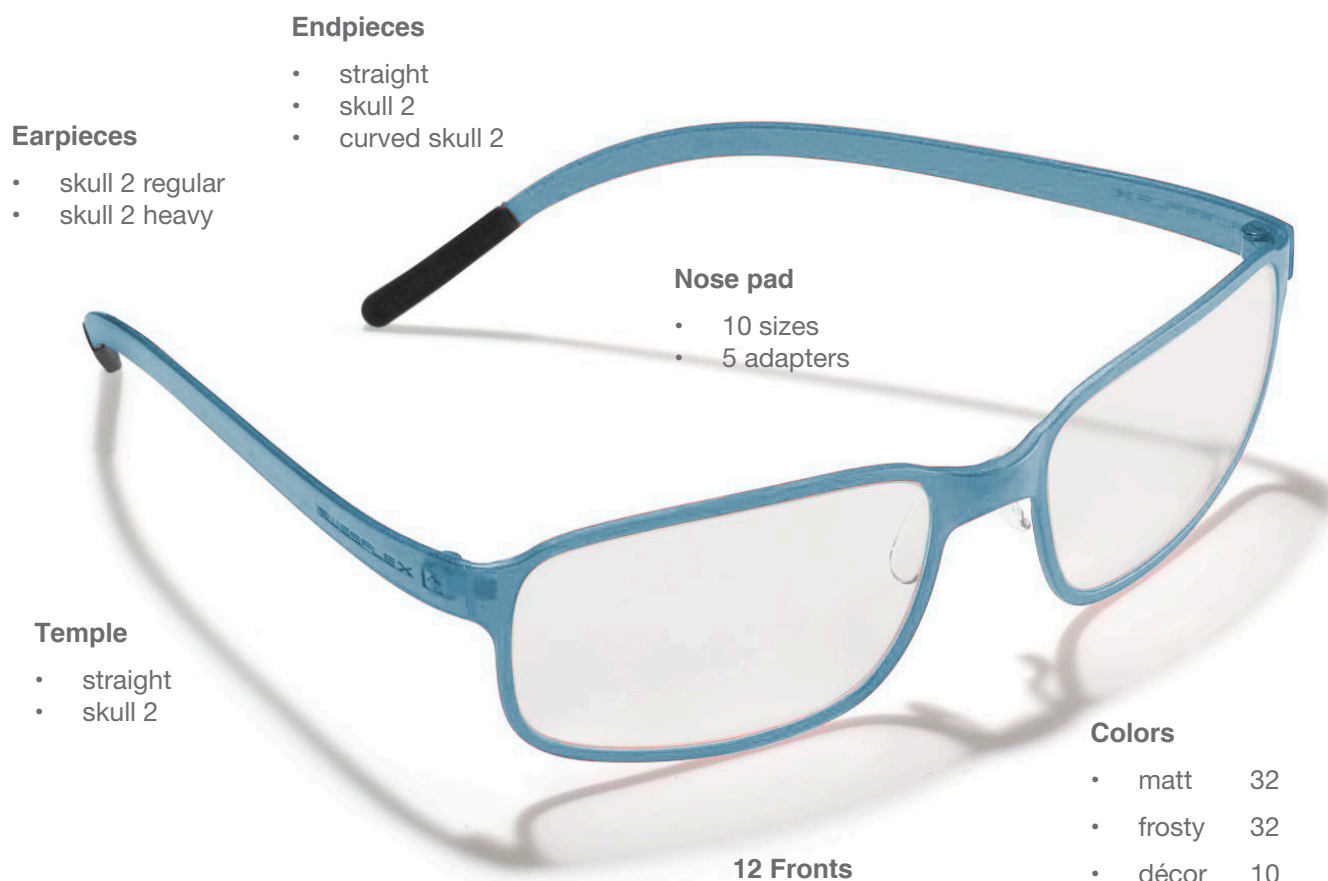
SF rainbow / Technical Manual



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- 10. Basic fitting in Lab**
- 11. Cleaning**

1. Frame system

SF rainbow full rim



Pictures of all the elements above are available in the legend and the color overviews of the order forms.



like
wearing
nothing.

+
perfekte Passform
modulare Individualität
100% Swiss-made

SF rainbow half rim



Pictures of all the elements above are available in the legend and the color overviews of the order forms.



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2. Frame parts

SF rainbow full rim



- ① Front
- ② Nose pad
- ③ Temple
- ④ Endpiece/Earpiece

SF rainbow half rim



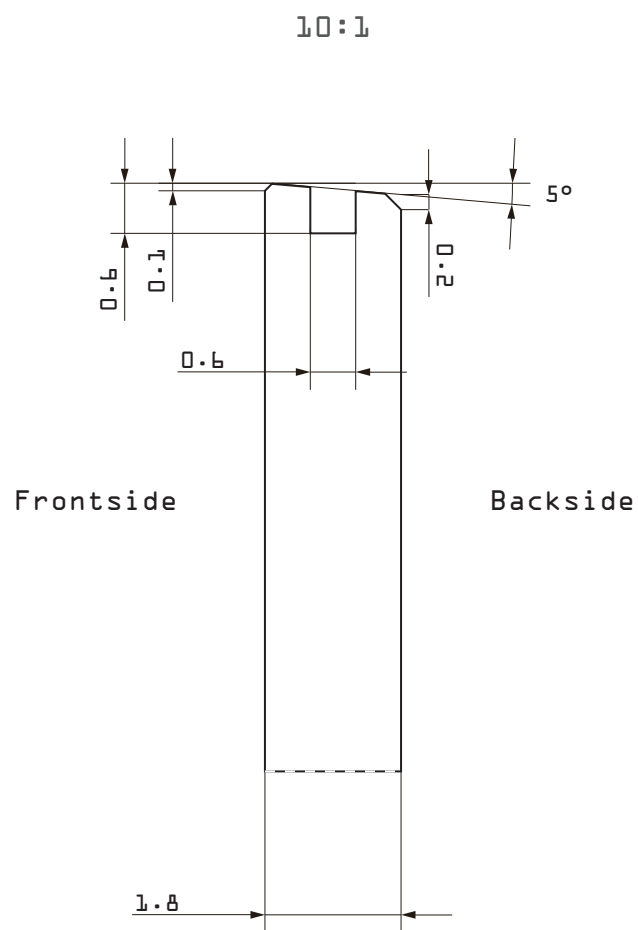
- ① Front
- ② Nose pad
- ③ Temple
- ④ Endpiece/Earpiece

3. Devices / Tools



Tools	Article code
① Diagonal cutting nipper 632N	70003005
② Mounting tool for pad clip	70003007
③ Former	70311003
④ Nylon thread Ø 0,6mm (one side ready to assemble)	70311010

4. Technical data of groove and lens

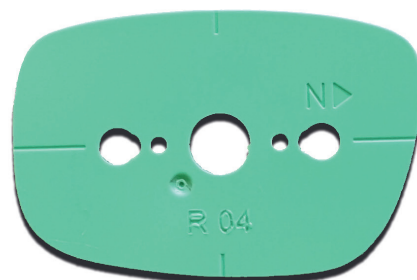


(A minimum glass thickness of 1.8 mm is recommended)

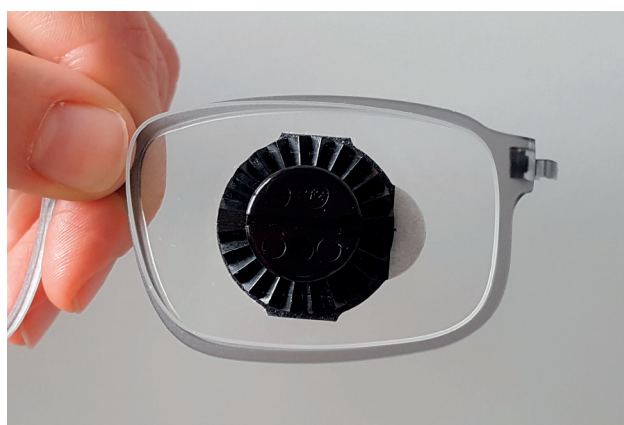
5. Mounting instructions for SFr full rim - standard temple

- 1 Preparation.
Milling and grooving the lens to the correct shape and size (use the checking device).
A sefty bevel of 1/10 frontside and 3/10 backside facilitates inserting the lenses.

Caution: If the lens does not fit properly (too small / too big / not adapted grooving depth) results in breakages or the lenses may fall out.



- 2 Placing lens with groove starting temporally into the frame. Depending on shape and thickness of the lens from the front or the back.



- 3 Started temporally placing the lens first into the upper and then into the lower rim.



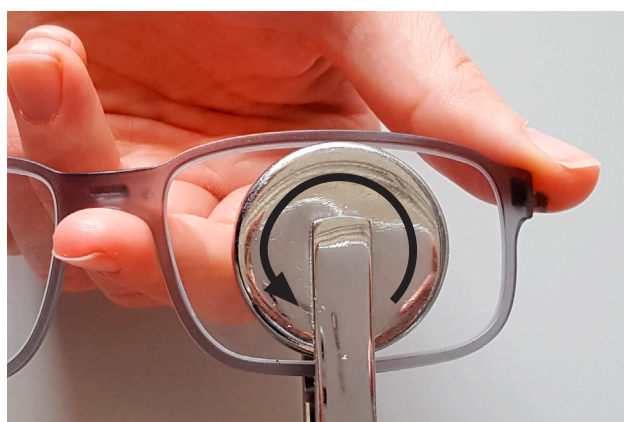
- 4 Lifting the lower frame carefully with little force over the edge of the lens.



- 5 Lifting the lower frame carefully with little force over the edge of the lens.



- 6 Aligning the lenses.
Fixing the frame at the bridge and the hinge and turning the lenses counter clockwise.



- 7 Fixing the frame at the bridge and the hinge the other way around to turn the lenses clockwise.



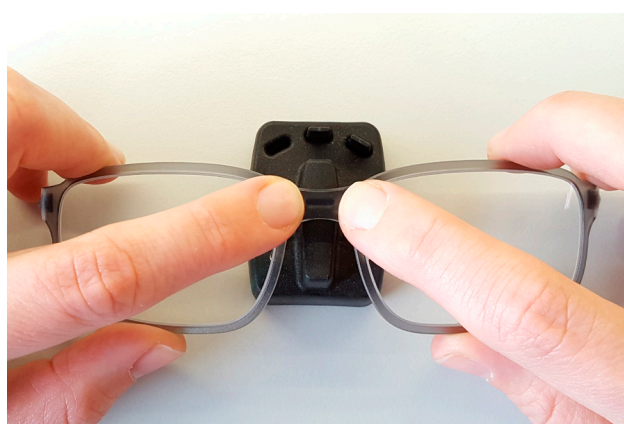
- 8 Depending on the blocking system it is advisable to remove the blockers before further working steps



- 9 Preparation of pad assembly. Inserting the mounting aid into the pad.



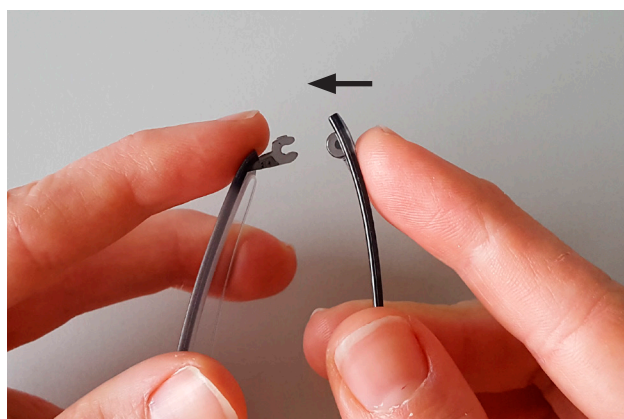
- 10 Placing the bridge with the mushroom downwards vertically on the mounting aid and pushing it down until it clicks into place.



- 11 Checking the correct fit.



- 12 Fixing the hinge, positioning the temple parallel to the front, inserting the temple in the hinge until it clicks into place.



13

Mounted frame is ready but not pre-fitted.

More information in the fitting chapter



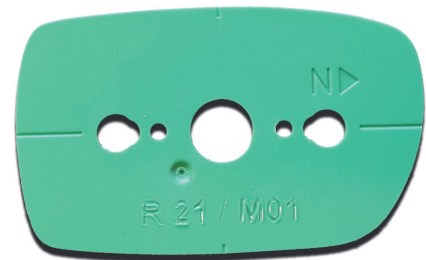
6. Mounting instructions for SFr half rim – standard temple

1

Preparation.

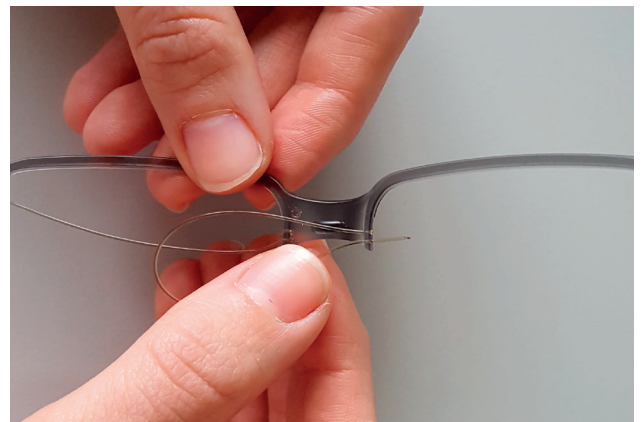
Milling and grooving the lens to the correct shape and size (use the checking device)
A sefty bevel of 1/10 frontside and 3/10 backside facilitates inserting the lenses.

Caution: If the lens does not fit properly (too small / too big / not adapted grooving depth) results in breakages or the lenses may fall out.



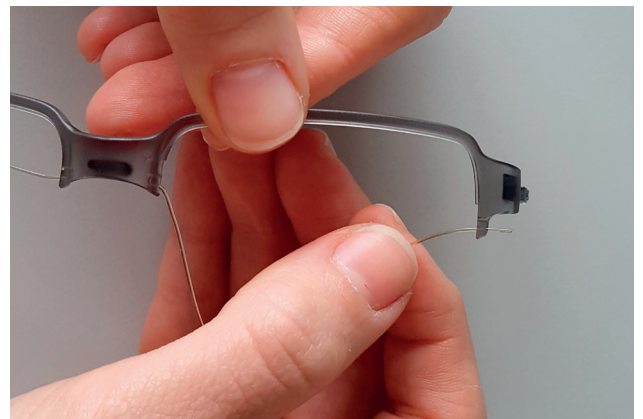
2

Moving nylon thread (Ø 0,6mm) nasal.



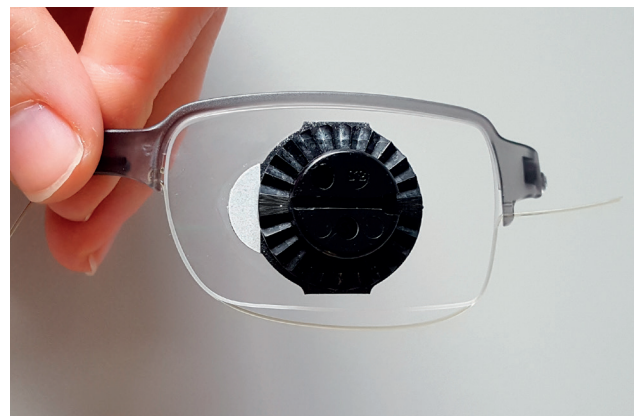
3

Moving nylon thread with overlay in first hole.



4

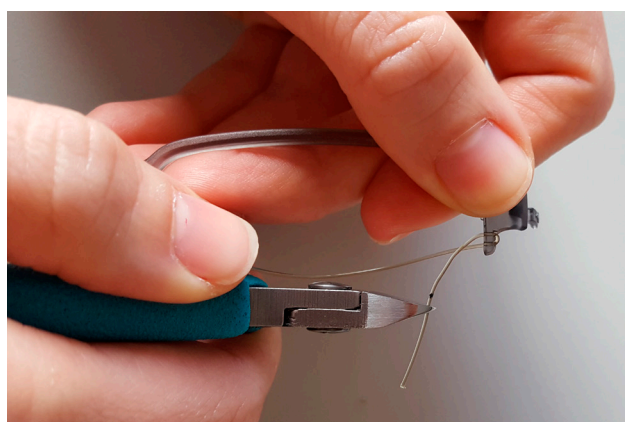
Positioning lens with groove in frame.



- 5 Pulling the thread smoothly and mark it.



- 6 Moving the thread through the second hole and cut the overlay. The overlay has to be fitted tightly to the frame and lens shape.



- 7 Burning the end of the thread to create a little knob.



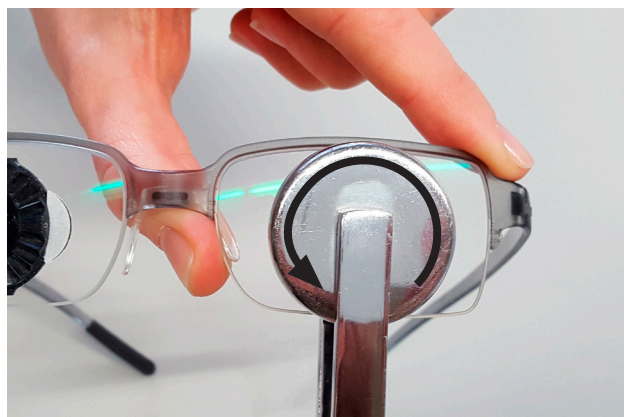
- 8 Lifting carefully the nylon thread over the edge of the lens.



9

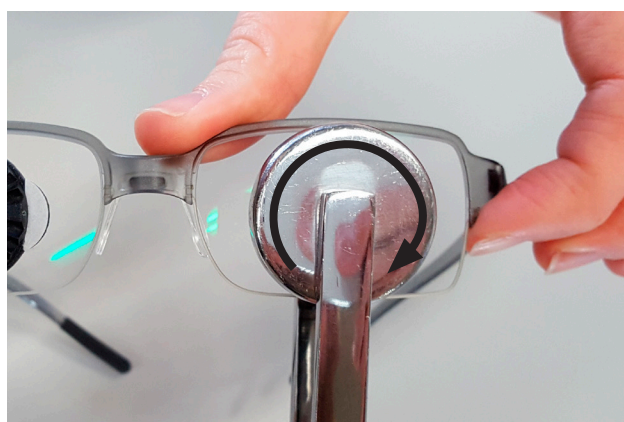
Aligning the lenses.

Fixing the frame at the bridge and the hinge and turning the lenses counter clockwise.



10

Fixing the frame at the bridge and the hinge the other way around to turn the lenses clockwise.



11

Depending on the blocking system it is advisable to remove the blockers before further working steps.



12

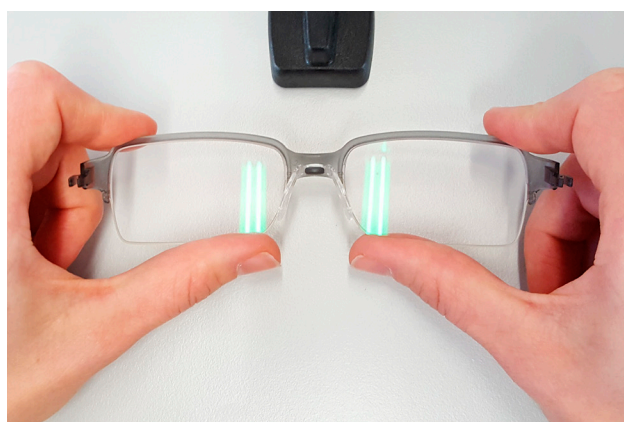
Preparation of pad assembly.
Inserting the mounting aid into the pad.



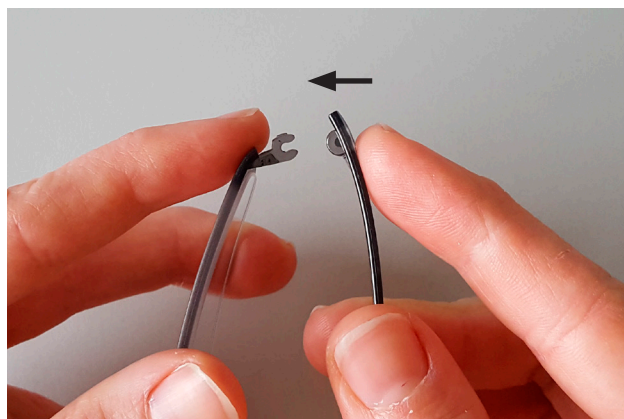
- 13 Placing the bridge with the mushroom downwards vertically on the mounting aid and pushing it down until it clicks into place.



- 14 Checking the correct fit.



- 15 Fixing the hinge, positioning the temple parallel to the front, inserting the temple in the hinge until it clicks into place.



- 16 Mounted frame is ready but not pre-fitted.
More information in the fitting chapter.



7. Mounting instruction for raster temple

1

Preparation of parts:

- raster temple
- raster earpieces



2

Mounting the temples to place the frame on the head of the consumer.

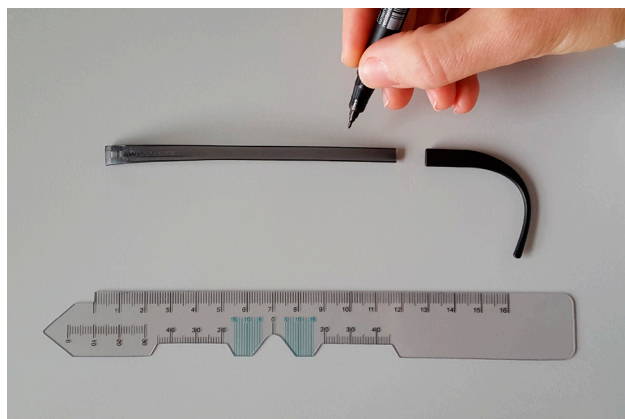
Putting the earpiece close to the ear, marking the overlay at the temple (determine the length for each side individually).



3

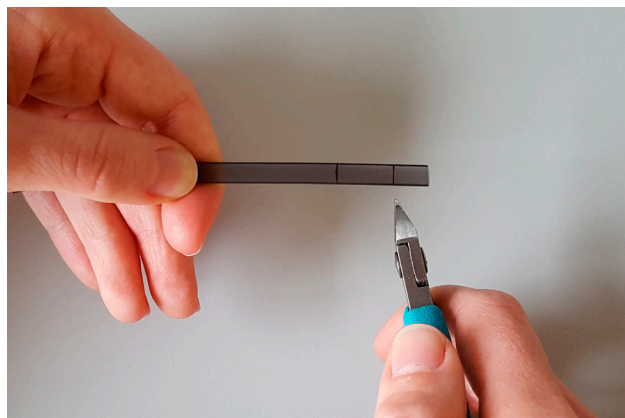
Marking the intersection point.

Determination of the necessary allowance and adding it to the length of the temple.

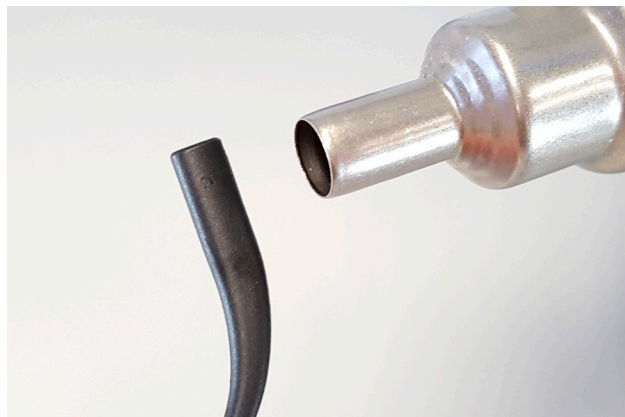


4

Shortening the temple to the desired length. Use the tool side cutter 632N.



- 5 Heating the ends of the temple slightly from both sides on order to simplify the installation.

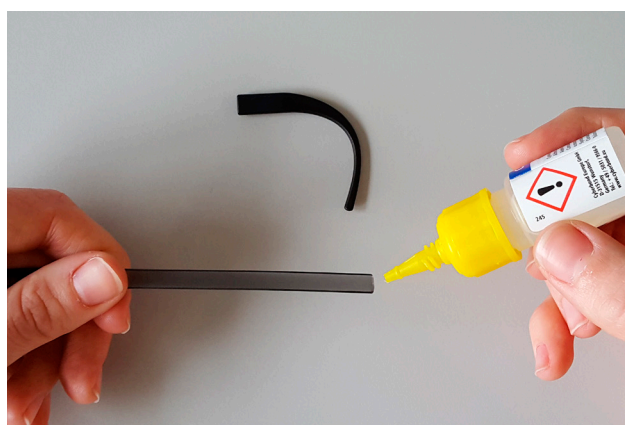


- 6 If necessary the earpiece can be glued to the temple.

Application of glue (only on cut surface) in small quantity with immediate assembly.

Remove any visible glue immediately.

Official product for glueing earpieces is CB 2008.

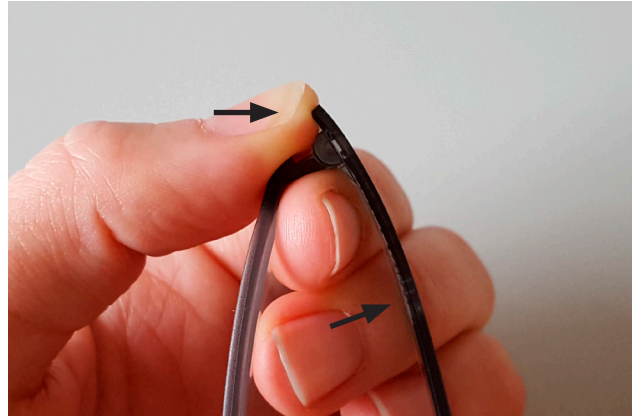


- !** Caution!
Observe the safety regulations regarding glues and solvents.

8. Disassembly: Temple, nosepad, lens

1

Closing the temple.
Fixing the hinge with thumb and finger and pulling the temple jerking slightly towards the end of the temple.



2

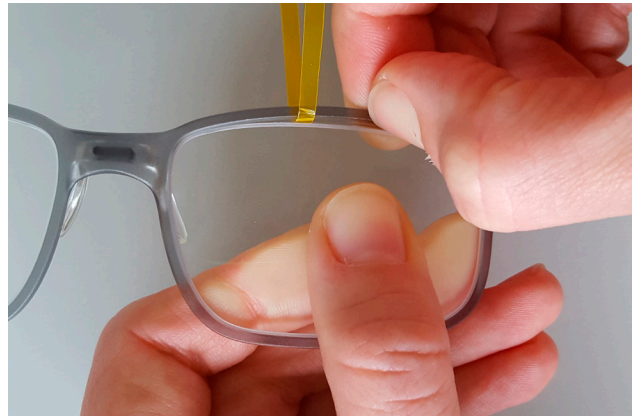
Removing the nose pad.
Press the wings with both thumbs downwards until the pad clicks out.



3

SF rainbow full rim

Removing the lenses (e.g. left one). Lifting the upper rim, inserting the plastic strip for further proceeding.



4

SF rainbow full rim

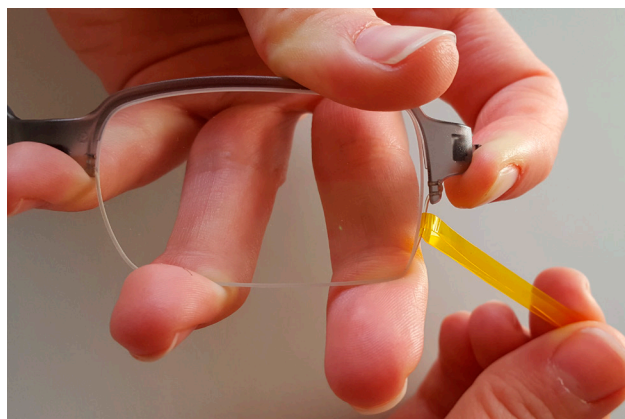
Lifting the nylon thread carefully over the edge of the lens.



3

SF rainbow half rim

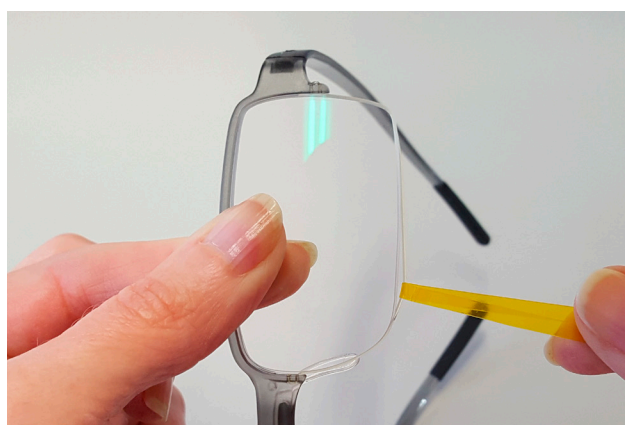
Removing the lenses (e.g. left one). Lifting the upper rim, inserting the plastic strip for further proceeding.



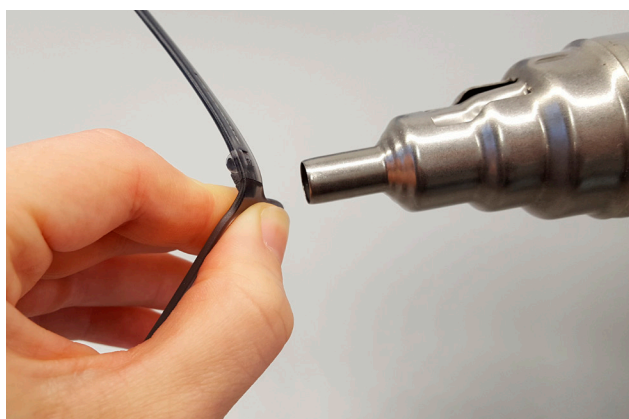
4

SF rainbow half rim

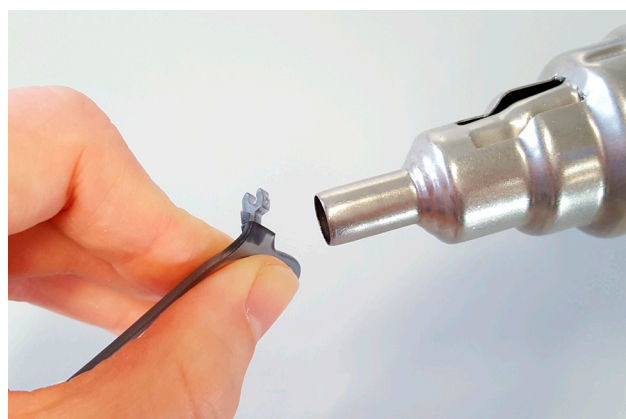
Lifting the nylon thread carefully over the edge of the lens.



9. Typical mounting mistakes



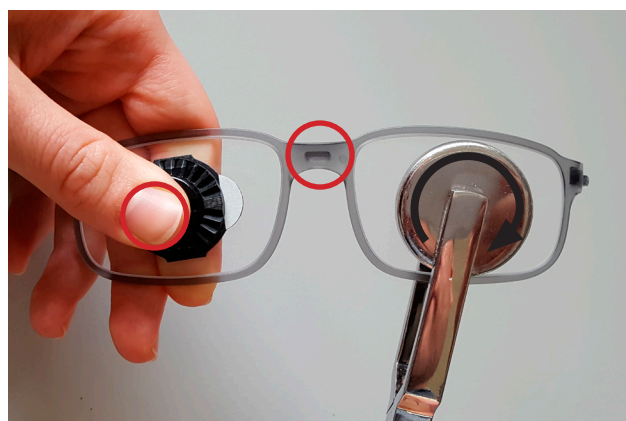
Correct
Opening the temple. Heating the corner from two sides slowly. Protecting the lens and adjusting the temperature to the distance.



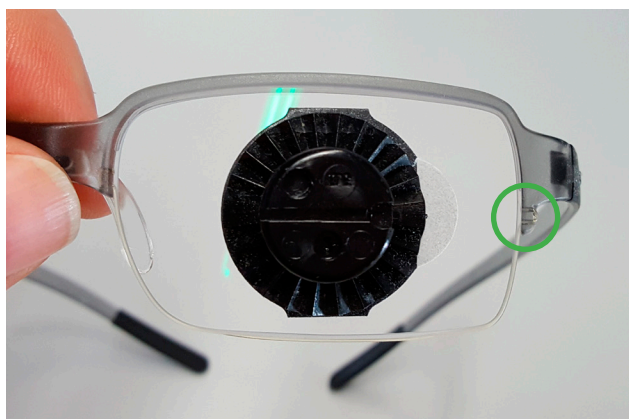
Incorrect
Hinge deforms due to too much heat.



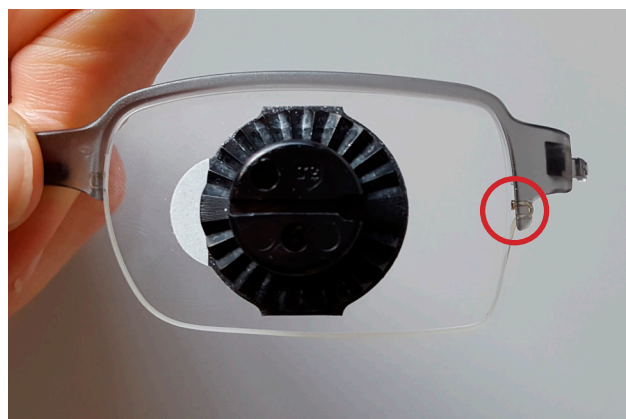
Correct
Fixing the frame with the fingers in order to turn it clockwise.



Incorrect
Incomplete fixing of the frame before turning. Danger of breakage or deforming of frame.



Correct
Frame fits tightly to lens.



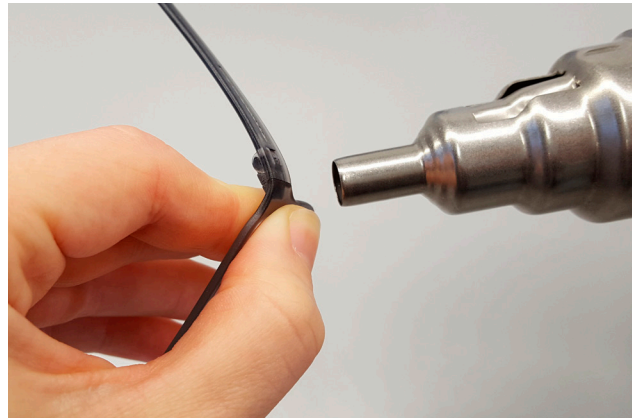
Incorrect
Frame is not fitting tightly and nylon thread is too long.

10. Basic fitting in Lab

1

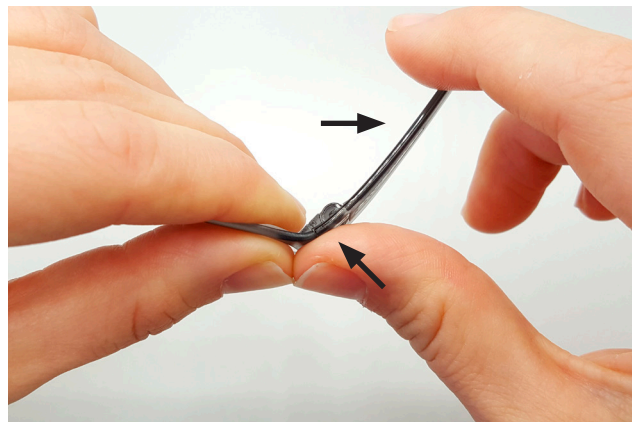
Open the temple. Heating the hinge from both sides gradually while protecting the lens.

Adjust the temperature to the clearance.



2

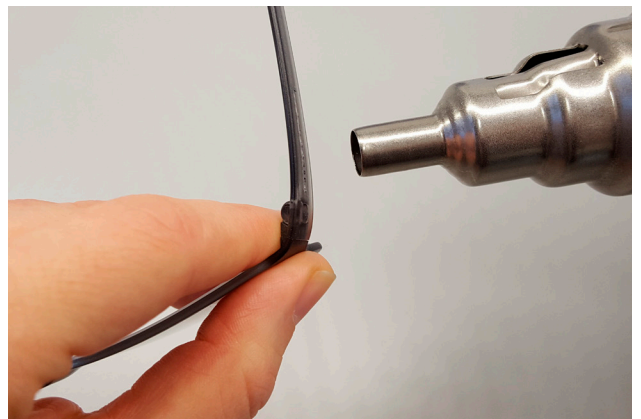
Increasing/decreasing the opening angle.



3

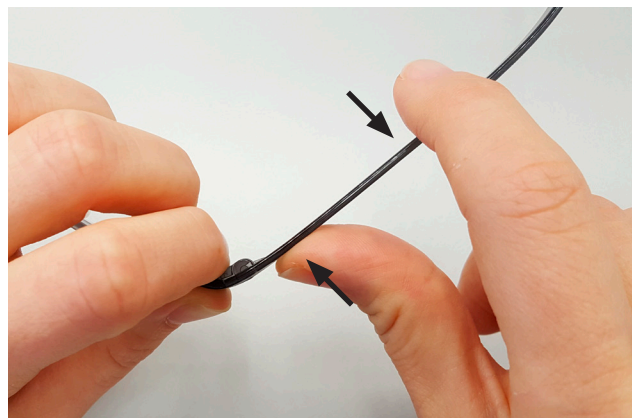
Alternative.

Heating temple from both sides slowly and adjust the temperature according to the distance.



4

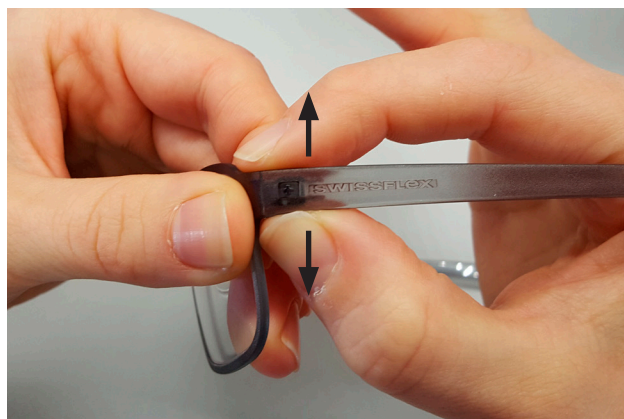
Increasing/decreasing the opening angle.



- 5 Heating slowly and evenly the both sides of the hinge.

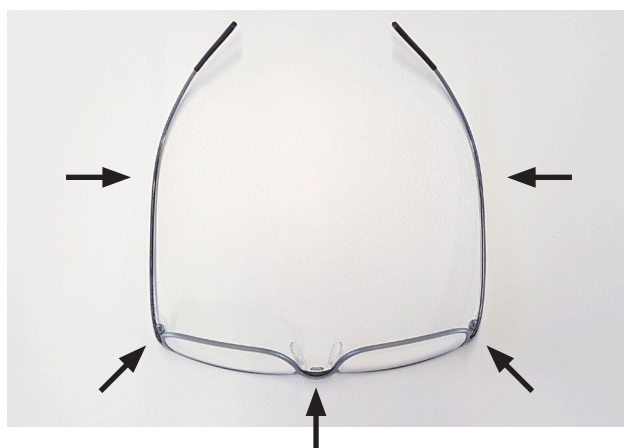


- 6 Adjusting inclination.



- 7 Possible points for tuning.
- Bridge (remove pad before)
 - Hinge
 - Temple (not in the area of the connection of hinge and temple)

Adjusting the temperature to the respective clearance.

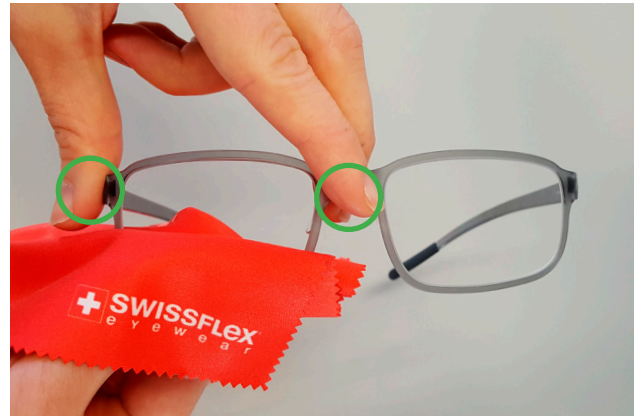


11. Cleaning

1

Correct cleaning.

Fixing the frame at bridge and hinge. It is recommended to clean the glasses with soap and clean water. The removal of glue residues on the frame with acetone. Avoid alcohol (f.e. Isopropanol) and solvents.



2

Incorrect cleaning.

Not fixing the frame properly which results in a torsion between the lens and the frame.

