

BLACKFIN



TECH BOOK EN

BLACKFIN

It's the details that make the
difference in a Blackfin.
Because perfection, however
fleeting it may be,
can be found in the smallest
details.

Index

Instructions

BLACKFIN ONE Lens mounting	07
BLACKFIN ONE NYLOR Lens mounting	09
BLACKFIN PACIFIC Replacing lenses	11
BLACKFIN ATLANTIC Replacing lenses	17
BLACKFIN AERO LOOP Mounting	23
BLACKFIN AERO LOOP Disassembly	31
BLACKFIN Aero Loop plier	32
BLACKFIN AERO Mounting	34
BLACKFIN AERO Disassembly	38

Previous Collections

BLACKFIN ATLANTIC 01-04 Lens mounting	40
BLACKFIN AERO WIRE Mounting	46
BLACKFIN AERO WIRE Disassembly	51
BLACKFIN RAZOR Lens mounting	54
BLACKFIN RAZOR Temple replacement	56
BLACKFIN AURA NEW Cold mounting	58
BLACKFIN AURA NEW Rim replacement	60
BLACKFIN AURA ACETATE Cold mounting	62
BLACKFIN AURA ACETATE Rim protect	64

Components/Tools

SWORDFISH Temple tips system	66
SWORDFISH Temple tips Bender	68
LITEPADS Nosepads	70
ULTRA-PADS Nosepads	72
TILT-PADS Nosepads	74
TILT-PADS Remover	76

Service Packs

SERVICE PACKS Tools	79
SERVICE PACKS Nosepads	80
SERVICE PACKS Accessories	83
SERVICE PACKS Temple Tip	83
SERVICE PACKS Screws and Washers	84

Digital Tool

BLACKFIN Digital Tools	86
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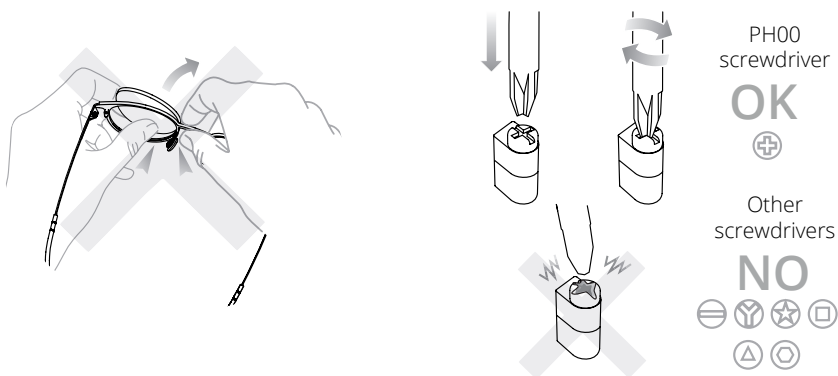
INSTRUCTIONS

BLACKFIN

BLACKFIN ONE | Lens mounting

The Blackfin One line is known for its on-trend frames, reimagined in keeping with the brand's DNA. Design, lightness and research are the trademark traits of this family of products, known for its unique colors and innovative production processes. The Blackfin One line revamps the concept of eyewear through ongoing research into colors and engineering, while staying true to the brand's identity.

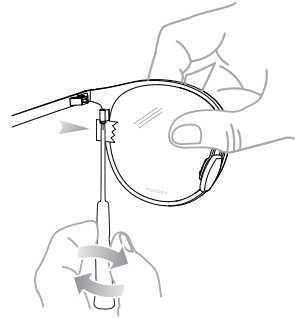
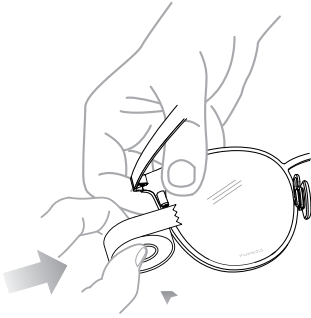
WARNING:



DO NOT use screwdrivers other than the suggested model in order to avoid any deformation of the screw

1

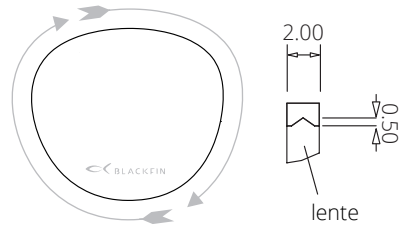
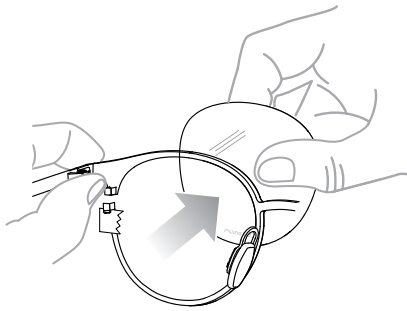
2



CAUTION: to avoid damaging the color, we recommend the use of sufficiently thick protective tape. Any scratches to the color resulting from failure to comply with this warning, will not be covered by warranty.

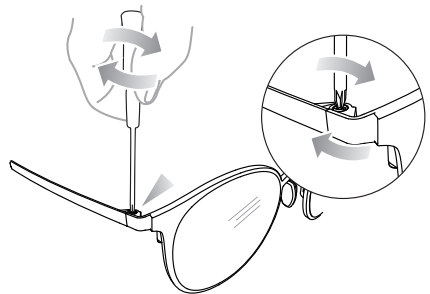
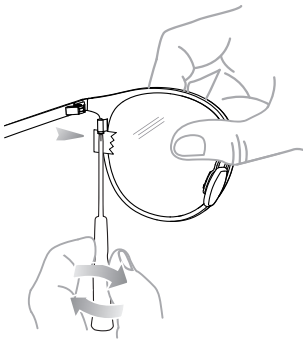
3

4



5

6



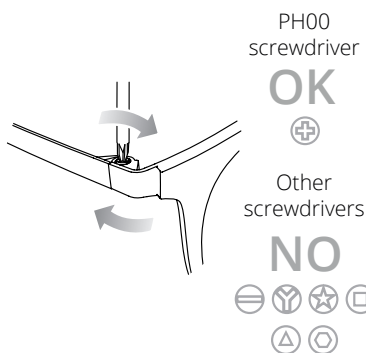
Carefully remove the protective tape.
If necessary, adjust the hinge screws with a PH00 screwdriver.

BLACKFIN ONE NYLOR | Lens mounting

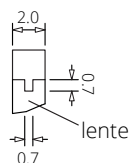
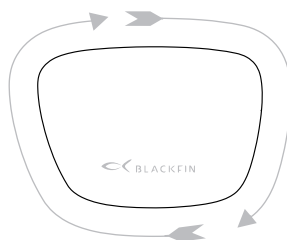
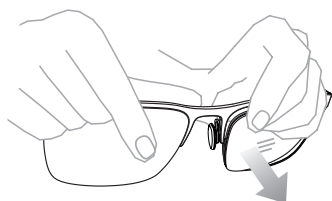
The Blackfin One line is known for its on-trend frames, reimagined in keeping with the brand's DNA. Design, lightness and research are the trademark traits of this family of products, known for its unique colors and innovative production processes. The Blackfin One line revamps the concept of eyewear through ongoing research into colors and engineering, while staying true to the brand's identity.

WARNING:

1

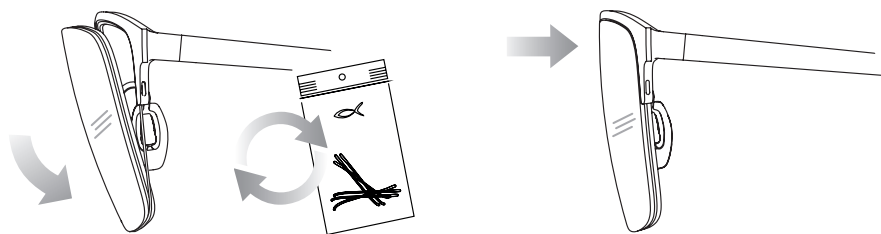


2



3

4

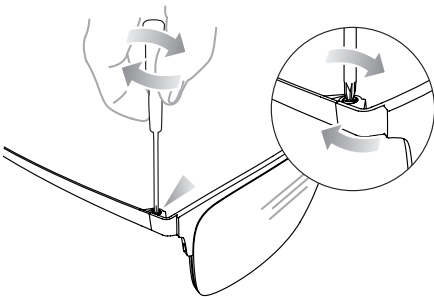


5



WARNING:
Make sure that the ends of the nylon wire do not protrude out of the groove seat.

6



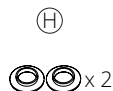
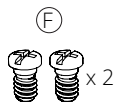
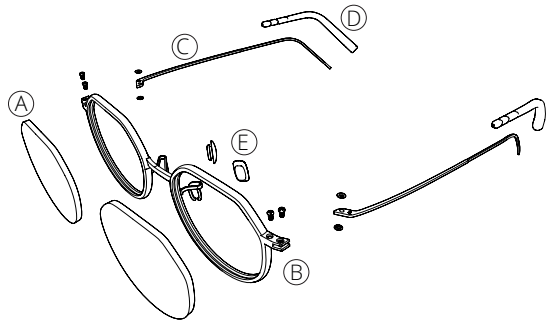
If necessary, adjust the hinge screws with a PH00 screwdriver

BLACKFIN PACIFIC | Lens mounting

Blackfin Pacific blends the uncluttered elegance of retro Japanese lines with a more-refined Californian style. The essential shapes are reinterpreted, making room for a more modern, contemporary aesthetic. Ultrathin titanium temples design clean, minimalist frames. Soft in their details, yet capable of accentuating the refined and sophisticated spirit of this series.

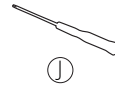
Blackfin Pacific parts

- Ⓐ Demo lenses
- Ⓑ Front
- Ⓒ Temples
- Ⓓ Temple tips
- Ⓔ Silicon Comfort pads
- Ⓕ Temple hinge screw x 2
- Ⓖ Rimlock screw x 2
- Ⓗ Lip washer x 2

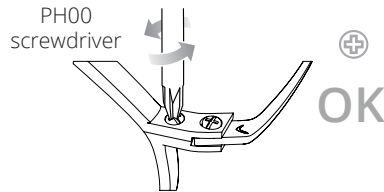


Tools

① PH00 screwdriver

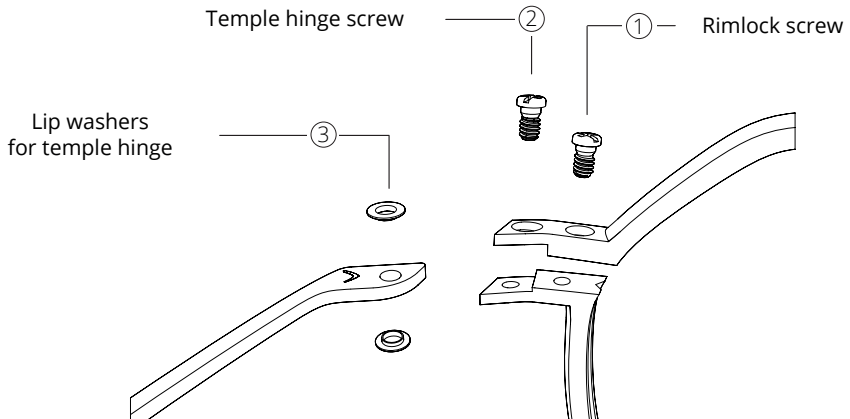


Damages caused due to failure to follow these instructions will not be covered by the warranty.



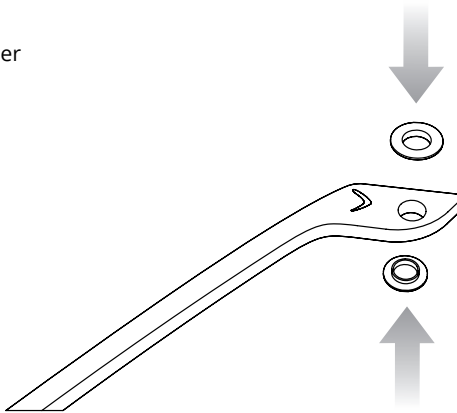
Do NOT
use screwdrivers other than
the suggested model to
prevent damaging the screw

Parts



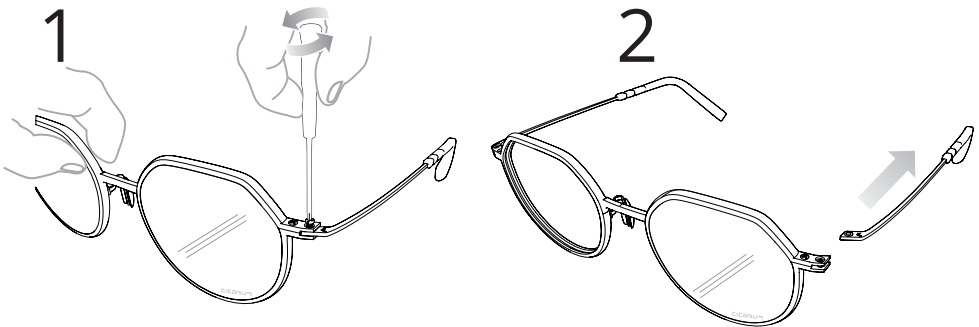
Washers positioning

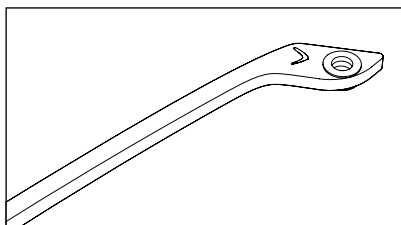
Lip washer



Make sure both washers are correctly placed on the temple before tightening the screw. This will ensure proper screwing without affecting temple movement.

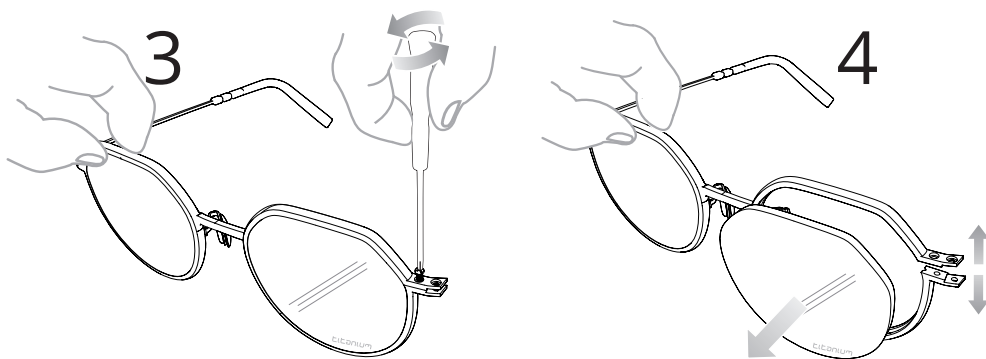
Loosen off the rimlock screw than remove hinge screw.
Remove the temple, making sure both the washers remain in place.



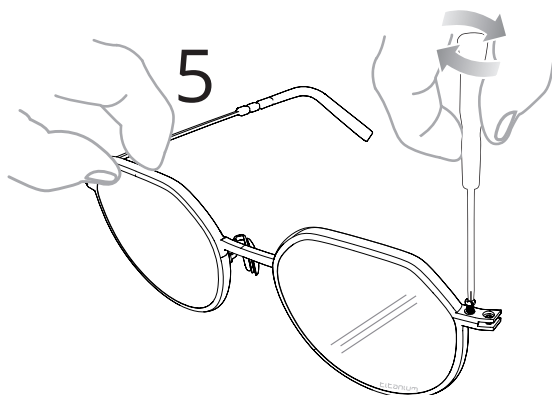


TEMPLE WITH WASHERS

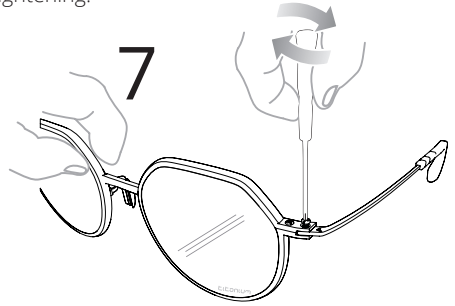
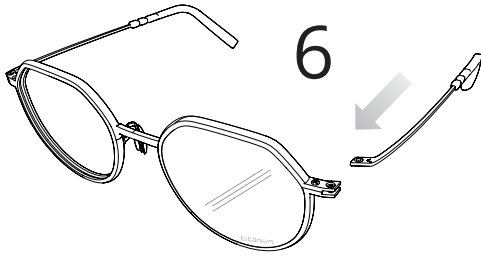
Unscrew and remove the rimlock screw. Open the front (fig. 4) and replace the lens.



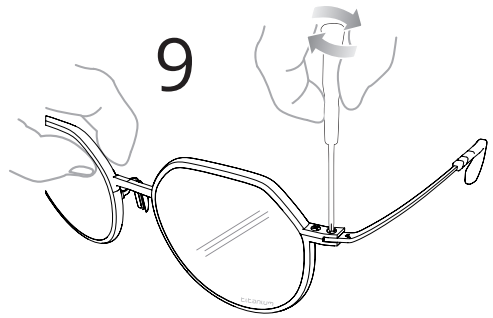
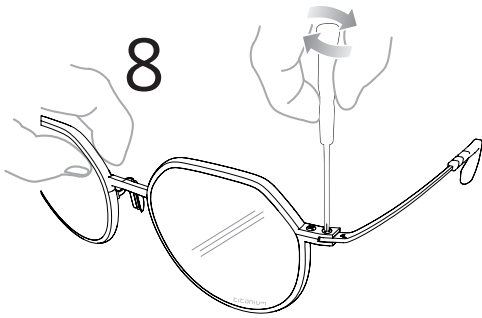
Screw in the rimlock screw without tightening it.



Insert the temple, making sure the washers are in place, and screw in the hinge screw without tightening.



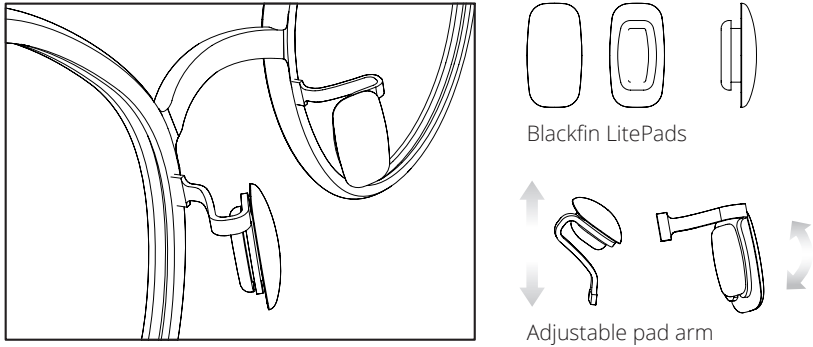
Lastly, turn the rimlock screw until it is tight and then give the temple screw a final adjustment.



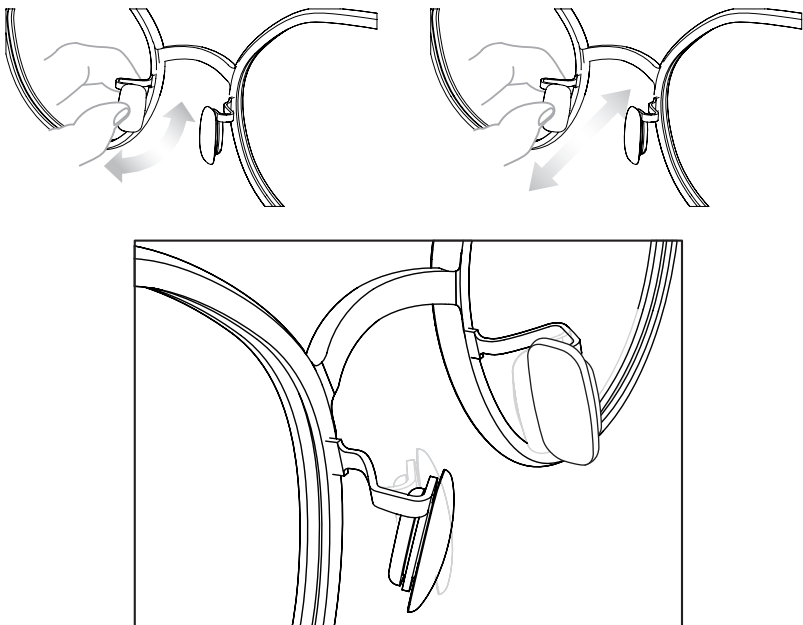
Improved comfort and adjustability

Blackfin LitePads and new pad arm

Thanks to the new Pad arm and the new Blackfin Lite Pads, distance and angle of the pad arms can be easily adjusted to adapt to the consumer's own facial features.



Thanks to the shape and flexibility of the pad arms, the position, distance and angle of the pads can be consumer's own facial features.



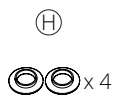
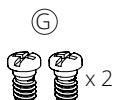
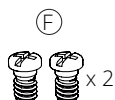
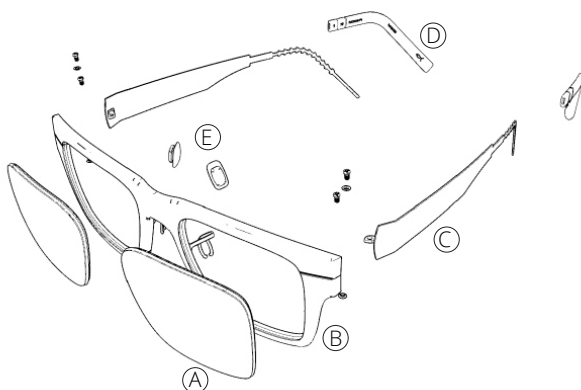
BLACKFIN ATLANTIC BOLD |

Lens mounting

Blackfin Atlantic expands its gaze to the Anglo-Saxon world and East Coast, USA, without renouncing its own personality. The minimalist aesthetic is even more marked, while the 3 mm thickness of the titanium front adds character to a series that reveals the incomparable Blackfin spirit in every detail.

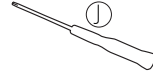
Blackfin Atlantic Bold parts

- (A) Demo lenses
- (B) Front
- (C) Temples
- (D) Temple tips
- (E) Lite Pads
- (F) Temple hinge screw x 2
- (G) Rimlock screw x 2
- (H) Lip washer x 4

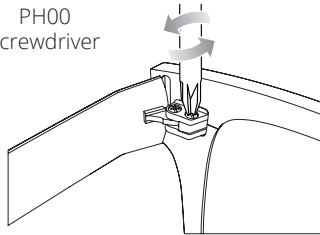


Tools

① PH00 screwdriver



PH00
screwdriver



OK

Do NOT

use screwdrivers other than
the suggested model to
prevent damaging the screw

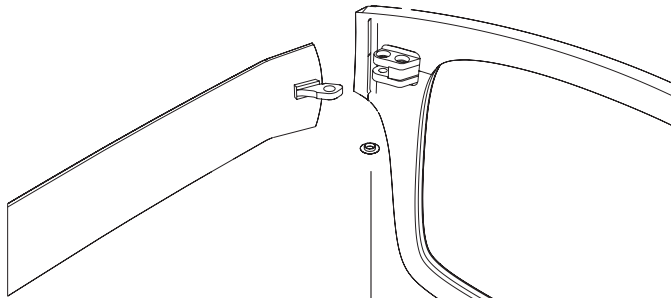
**Damages caused due to failure to follow these
instructions will not be covered by the warranty.**

Parts

Temple hinge
screw



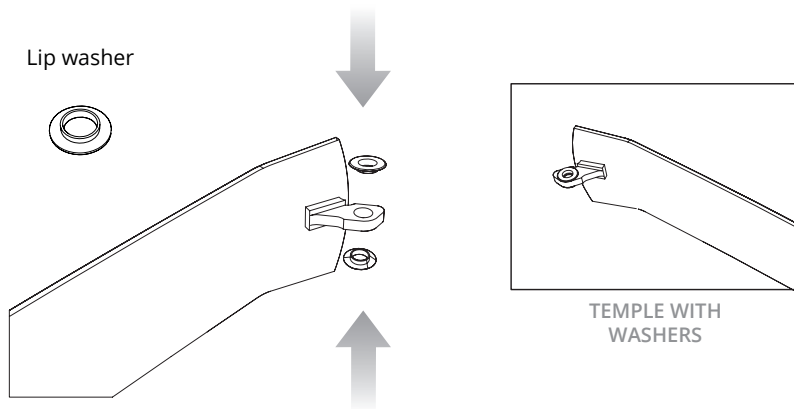
Rimlock screw



Lip washers
for temple hinge

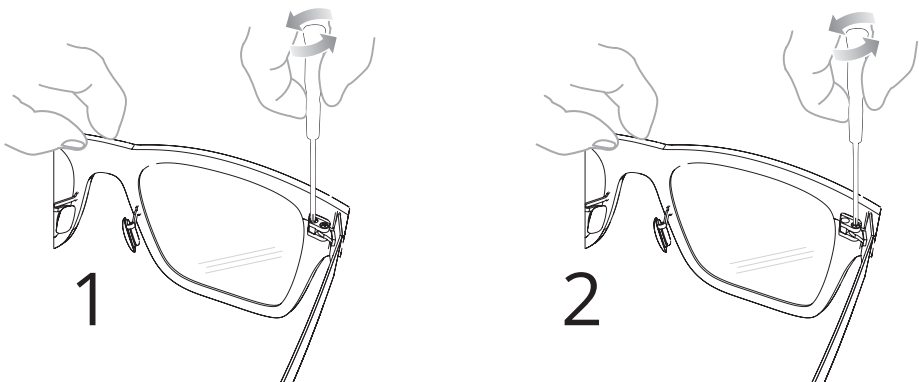


Washers positioning

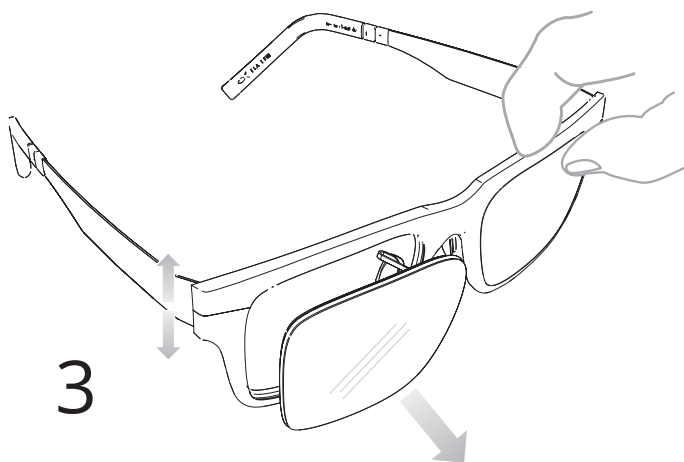


Make sure both washers are correctly placed on the temple before tightening the screw. This will ensure proper screwing without affecting temple movement.

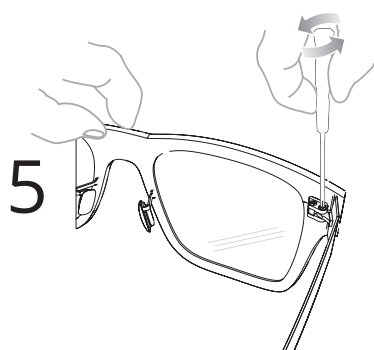
Unscrew the rimlock screw and loosen off the temple screw.



Open up the front and replace the lens.

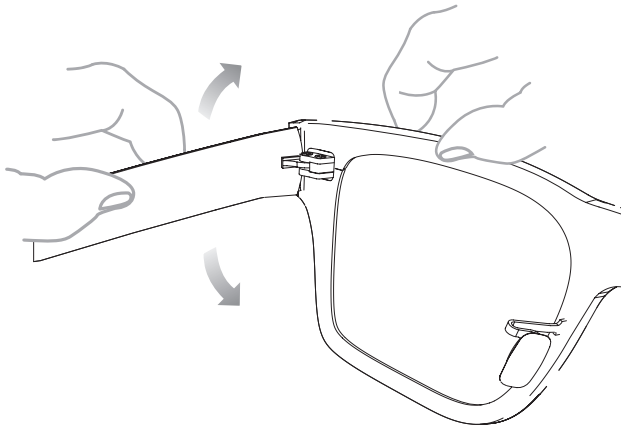
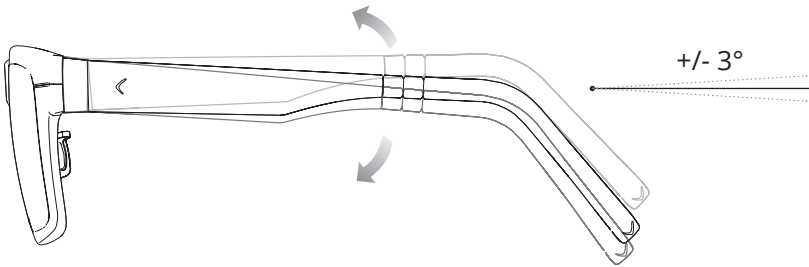


Screw in the rimlock screw then tighten the temple screw before adjusting the pantoscopic angle.



Pantoscopic angle adjustment

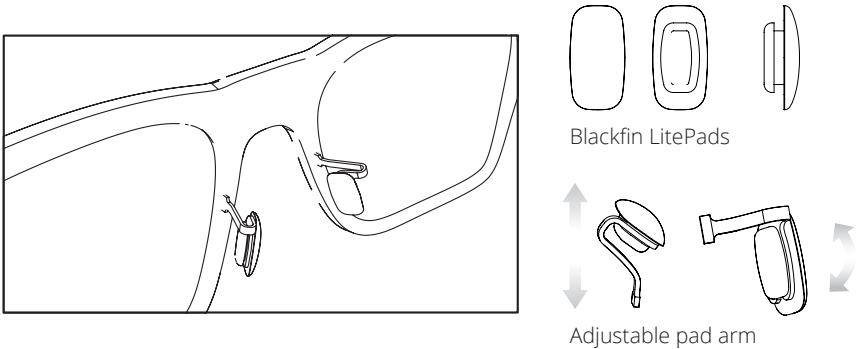
To ensure the best possible fit, carefully adjust the inclination of the temple to the desired pantoscopic angle ($\pm 3^\circ$ MAX).



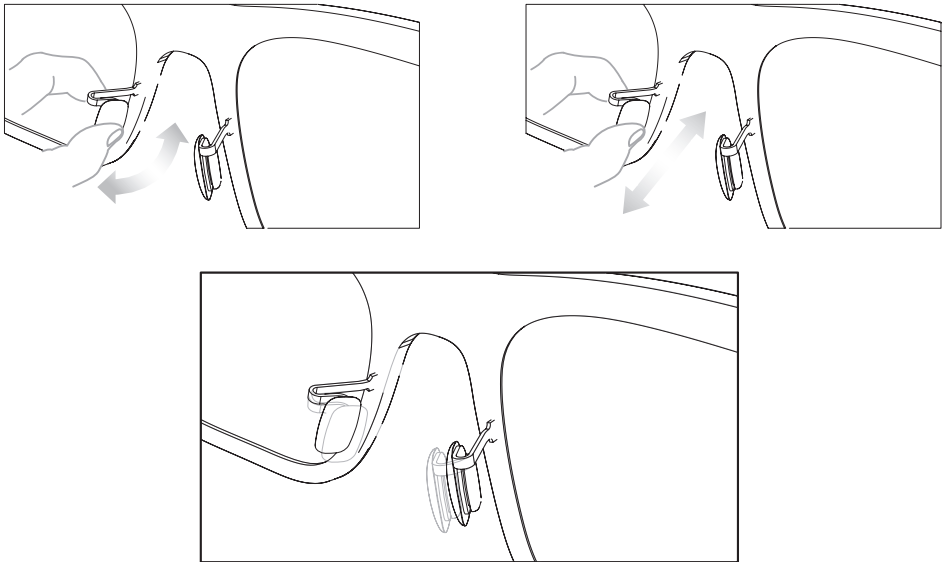
Nose pads adjustment

Blackfin Lite pads

Distance and angle of the nose pads can be easily adjusted, thanks to the new pad arm. The new Blackfin LitePads improve the comfort and offers a perfect fit.



Thanks to the shape and flexibility of the pad arm, the position, distance and angle of the pads can be customised to the consumer's own facial features

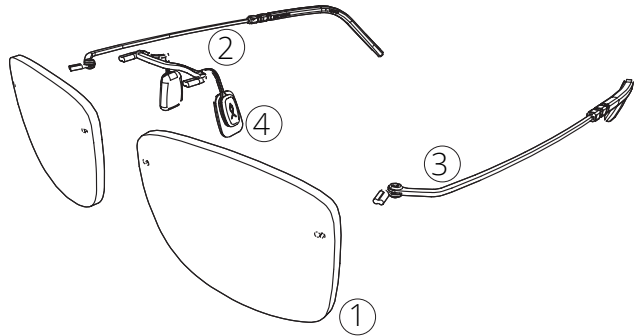


Blackfin Aero Loop | Mounting

An engineering masterpiece. Forged from a single block of extremely strong and lightweight aerospace titanium. The hinge, inspired by aeronautical rivets, is a gem of precision. With its minimalist, invisible design, Aero Loop delivers absolute comfort and infinite possibilities for personalization. The rimless frontier, redefined.

Blackfin Aero Loop parts

- ① Demo lenses
- ② Bridge
- ③ Temples
- ④ LitePads

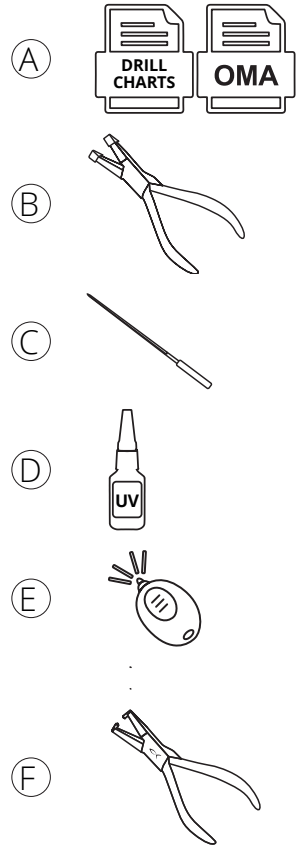


Prescription Lens Materials

Recommended with index 1.6, 1.67, TVX 153 and PC
Not recommended thinner than 2 mm or with index 1.5,
1.5 (with photochromic UV filter), 1.59 and 1.74

Tools

- Ⓐ PDF Drill Chart / OMA File
- Ⓑ Regular pliers with plastic jaws
- Ⓒ Reamer
- Ⓓ UV Glue (keep in the fridge)
- Ⓔ UV Lamp
- Ⓕ Aero Loop Pliers (supplied by Blackfin)



TIP: We recommend UV glue for its easy cleanup, excellent visual results, and adjustability even after pins insertion.

Online Tutorial



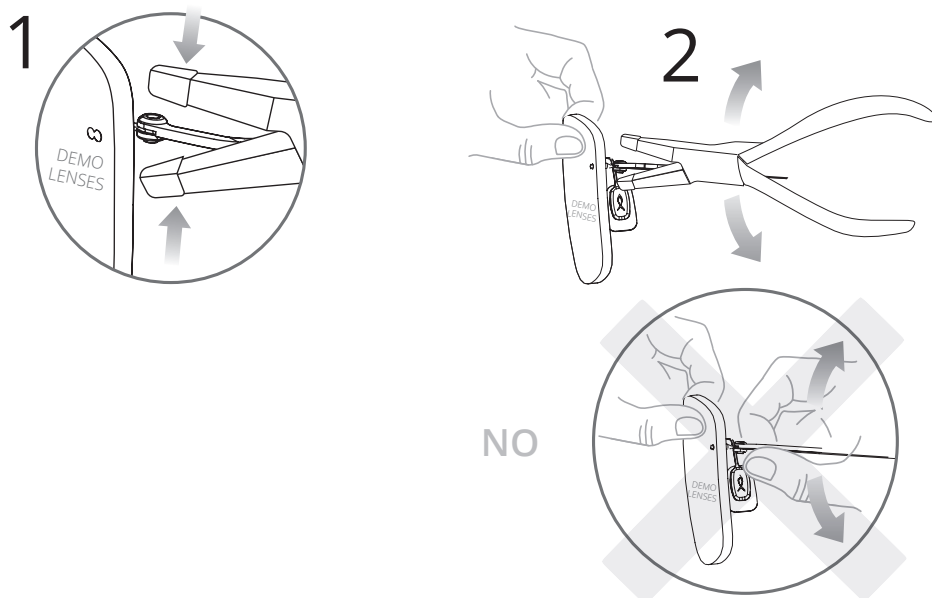
academy.blackfin.eu/aeroloop



WATCH THE VIDEO
TUTORIAL

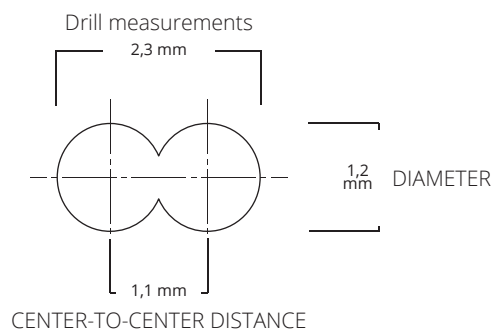
Pantoscopic angle adjustment

Adjust the pantoscopic and temple angles to ensure a comfortable fit for the customer before removing the demo lenses. Use suitable pliers with rubber jaws (figure 2).

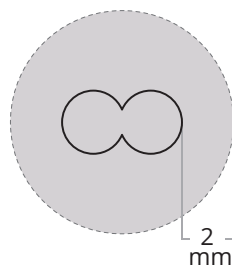


Lens drilling

To ensure the pins are securely fastened to the lenses, make two drills as shown below:

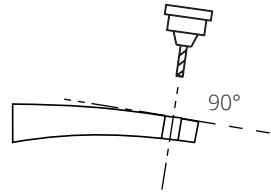


2 MM EDGE CLEARANCE



Milling cutter specifications

DIAMETER RANGE:



MILLING ANGLE:
Perpendicular to the front of the lens

Edging methods

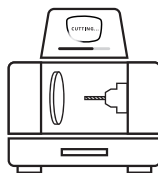
Proceed to the lens edging by using the provided OMA files

METHOD A using the .OMA file

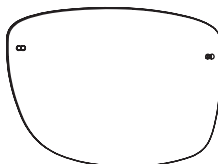
Upload file



Lens edging



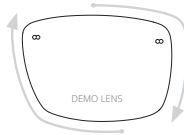
Finished Lens



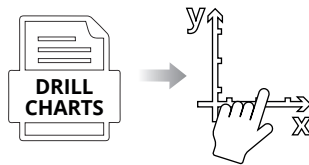
Lens edging using manual data input:

METHOD B
manually entering the specifications

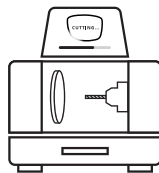
Mechanical probing



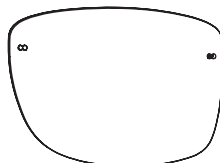
Enter drill coordinates



Lens cutting

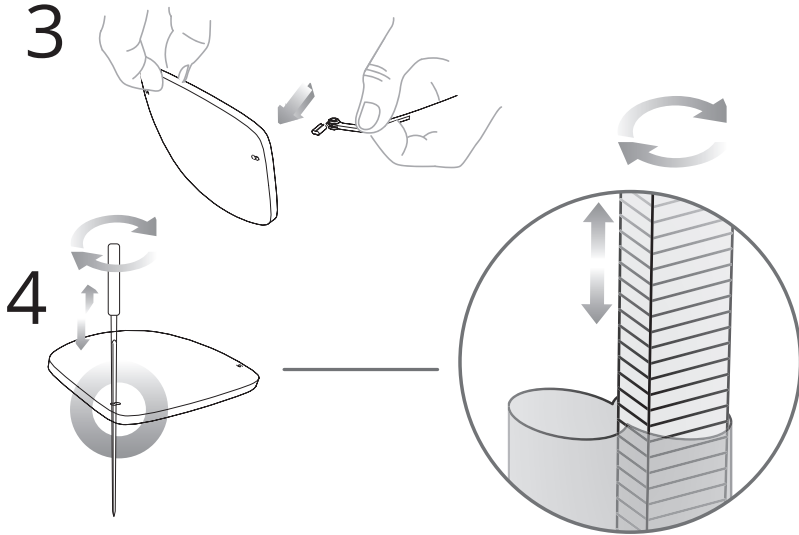


Finished Lens



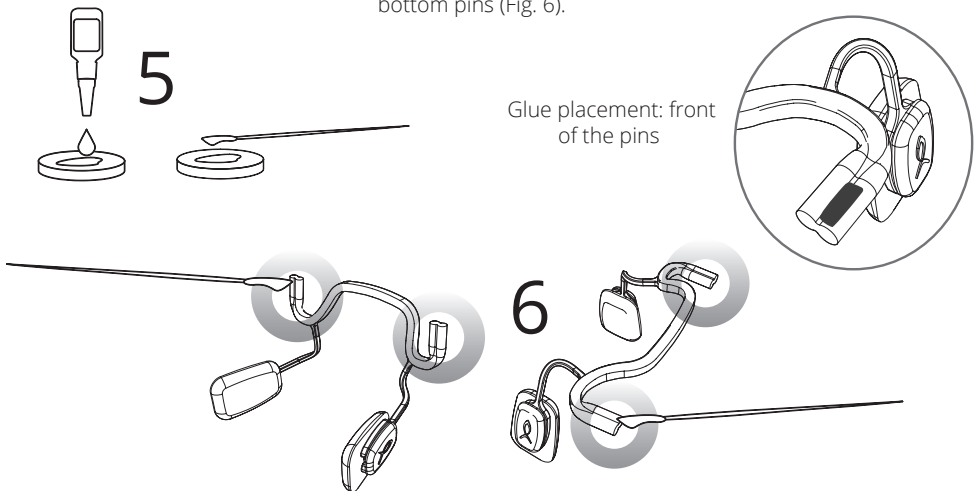
Drills checking and calibrating

Start by placing the bridge and temples pins in the lens holes. Make sure they fit securely (Figure 3). If needed, use the reamer to expand the hole to the appropriate size (Figure 4).

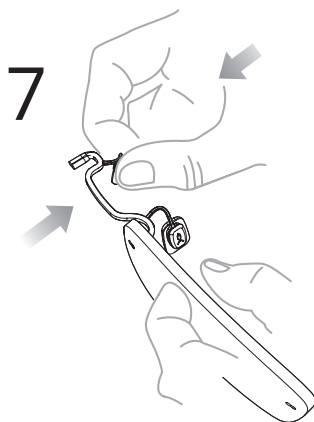


Lens mounting

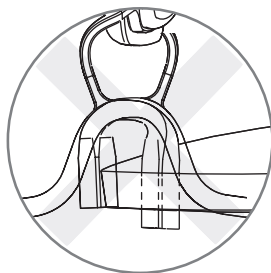
Dispense a small amount of UV glue onto a surface (Fig. 5) and, using a sharp, pointed object (such as a needle), pick up the adhesive and apply it to the top and bottom pins (Fig. 6).



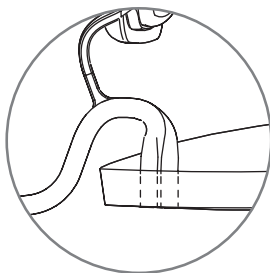
Assemble the bridge with the lenses (Fig. 7), paying attention to the correct insertion: **the pins should be flush with the outer surface of the lens without protruding** (Fig. 8). Ensure that the front is aligned (Fig. 9). **Proceed with UV curing for 30 seconds.**



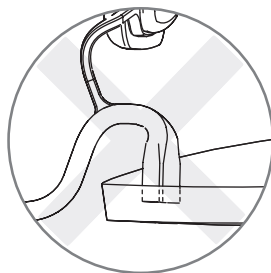
8



NO



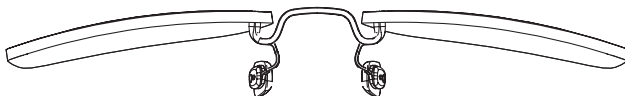
OK



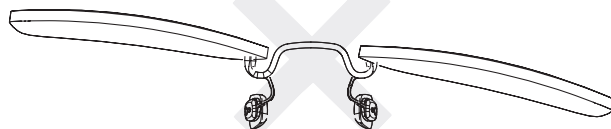
NO

9

OK

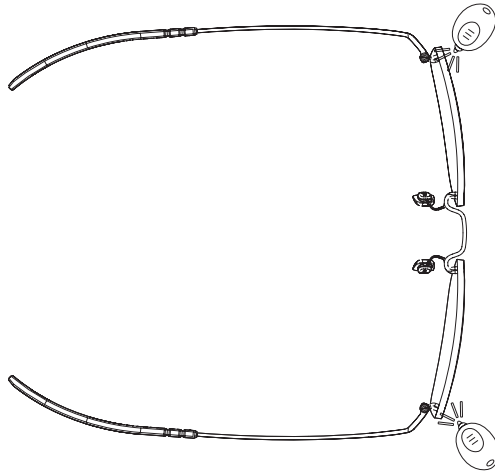


NO



Repeat this procedure for the temple pins, making sure they are correctly aligned here as well.
Harden the glue under the UV lamp.

10

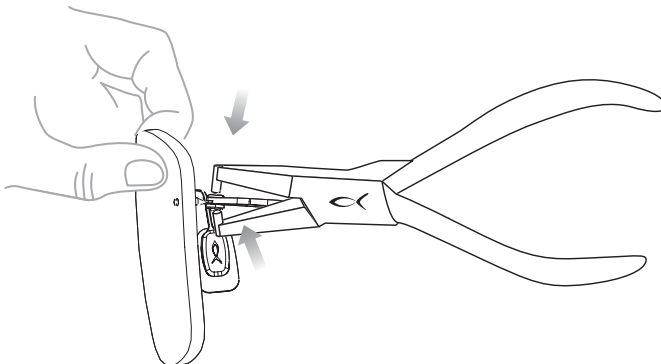


WARNING

Before making any micro adjustments to the fitting of the glasses, wait a few hours after applying the UV glue.

Hinge tension adjustment

The hinge has a rivet-like structure. If it loosens, you can tighten it with the Aero Loop pliers included. Apply steady hand pressure to restore the proper tension of the hinge.

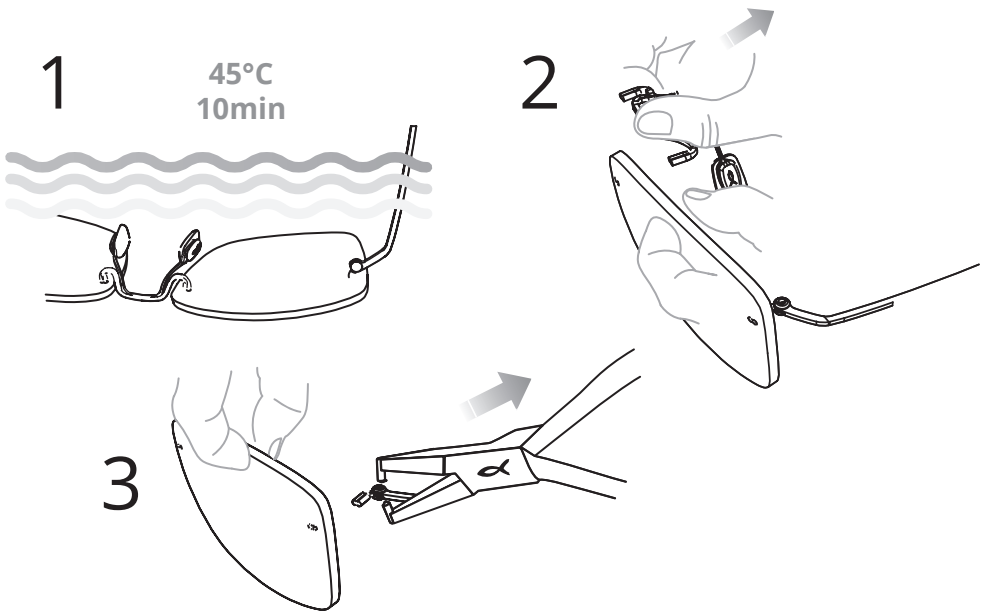


BLACKFIN AERO LOOP | Disassembly

An engineering masterpiece. Forged from a single block of extremely strong and lightweight aerospace titanium. The hinge, inspired by aeronautical rivets, is a gem of precision. With its minimalist, invisible design, Aero Loop delivers absolute comfort and infinite possibilities for personalization. The rimless frontier, redefined.

Instructions

If bonding was performed with UV glue, as recommended by Blackfin, immerse the components in hot water at a maximum temperature of 45°C [113°F] for 10 minutes (Fig. 1) for removal. This procedure will prevent damage to the lenses and their surface treatments. Gently remove the components. To detach the temples, use Aero Loop pliers to avoid stressing or damaging the hinges (fig 2-3). Should other adhesives have been used, use the dedicated adhesive remover specific to that adhesive type.



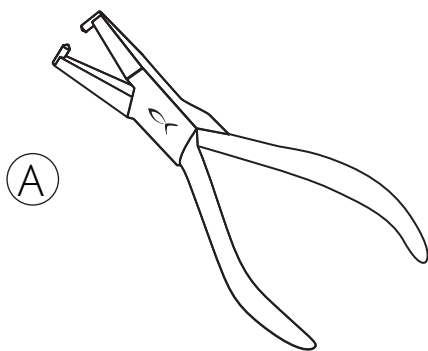
Technical Note: The lens connection pins undergo highly resistant surface treatments designed to preserve their integrity, even during removal operations. The available finishes — PVD, anodization, polished titanium, and sandblasted titanium — guarantee maximum durability and color stability. Since spray paints are not used on the pins, there is no risk of damage to the surface treatment during adhesive removal.

BLACKFIN | Aero Loop Plier

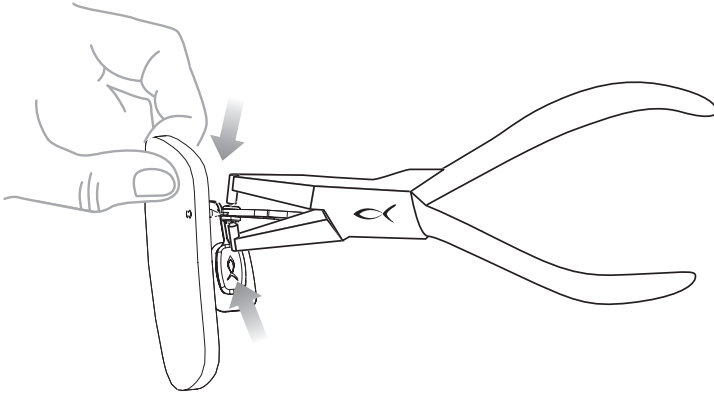
To ensure optimal assembly of the Blackfin Aero Loop, we have developed one essential tool: the Aero Loop Plier. The Aero Loop Plier, engineered to effortlessly re-secure hinges inspired by aeronautical rivets, enables quick restoration of proper tension, guaranteeing maximum comfort.

Tool

Ⓐ Aero Loop Plier (supplied by Blackfin)



With the Aero Loop pliers you can tighten the hinge. Apply careful hand pressure to restore the proper tension of the hinge.



BLACKFIN AERO | Mounting

The Blackfin Aero family includes rimless optical frames with ultra-thin profiles in precious beta titanium. Each AERO style is made with a 0.7 mm sheet of beta titanium for the bridge and 0.5 mm for the temples, in order to ensure maximum flexibility and comfortable fit.

Online Tutorial | Blackfin Aero Mounting

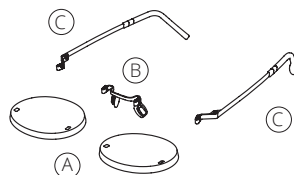


academy.blackfin.eu/aero



Blackfin Aero parts

- (A) Demo lenses
- (B) Bridge
- (C) Temples



Prescription lens materials

Recommended with index 1.6, 1.67, TVX 153 and PC

Not recommended with index 1.5, 1.5 (photochromic UV filter), 1.74

Tools

- (D) OMA file
- (E) UV glue
- (F) Needles Ø 0.40 mm
- (G) UV lamp
- (H) Opticians' pliers



(D)



(E)



(F)



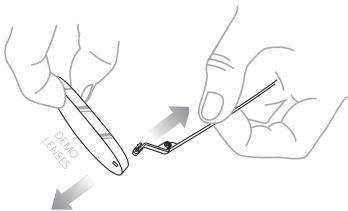
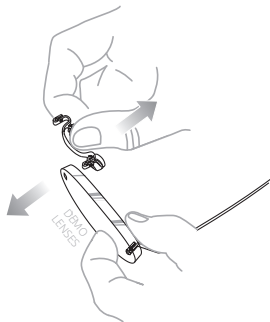
(G)



(H)

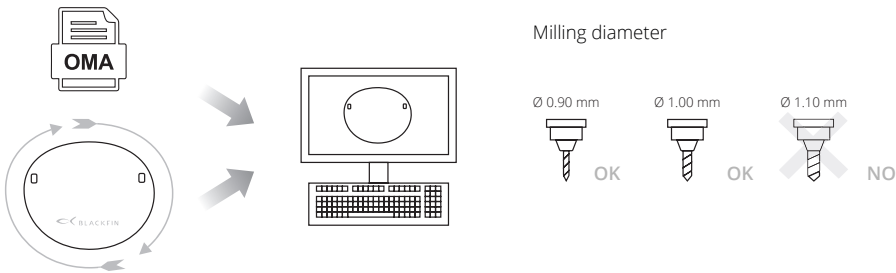
1

2



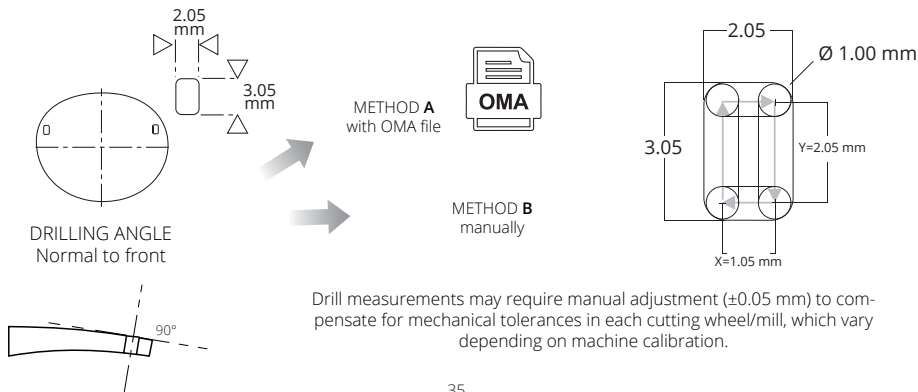
Proceed to disassembling the parts from the demo lenses.

3



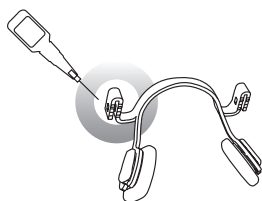
Proceed to lens edging by either referring to the provided OMA files or through mechanical probing.

4

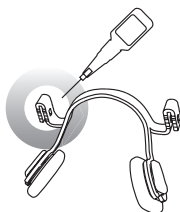


Drill measurements may require manual adjustment ($\pm 0.05 \text{ mm}$) to compensate for mechanical tolerances in each cutting wheel/mill, which vary depending on machine calibration.

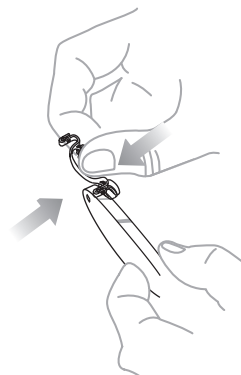
5



6



7



Use a needle Ø 0.40 mm to place a small amount of glue on top of the holes on the hooks.

NO



OK



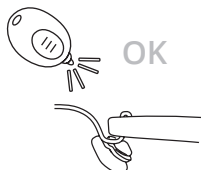
NO



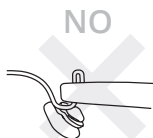
WARNING:

The angle of the hook pins must not be altered; they must be parallel.

8

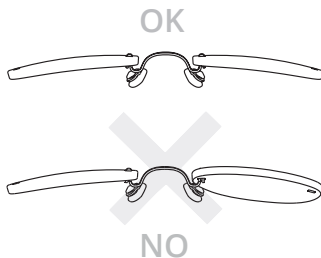


OK



NO

9



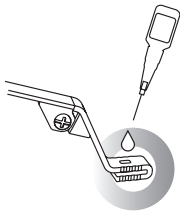
OK

NO

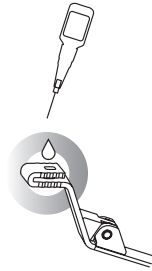
Attach the bridge to the lenses, ensuring correct insertion as shown in Figure 8 and proper front alignment as shown in Figure 9. Cure under a UV lamp for 10 seconds.

WARNING: The hook pins must remain parallel. Do not alter their angle.

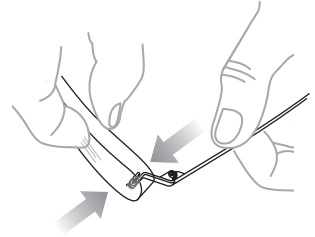
10



11

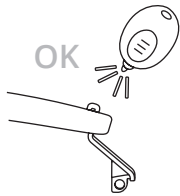


12

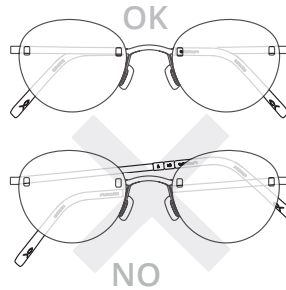


Use a needle Ø 0.40 mm to place a small amount of glue on top of the holes on the hooks.

13



14

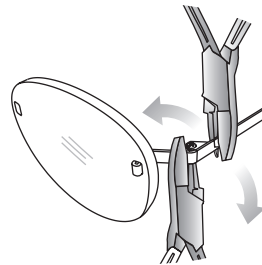
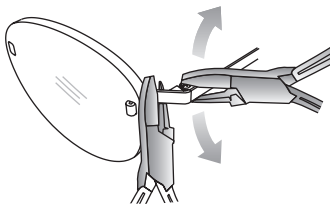


Attach the bridge and the temples to the lenses, carefully ensuring correct insertion of the hook pins as shown in Figure 8 and proper front alignment as shown in Figure 9. Cure under a UV lamp for 10 seconds. Wait a few hours for the glue to harden.

15

WARNING: The hook pins must remain parallel. Do not alter their angle.

16



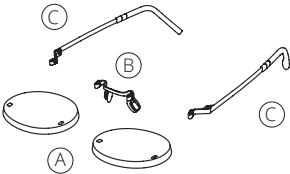
Only use suitable pliers with rubber jaws to make further adjustments to the pantoscopic and temple angle, in order to customize the mounted frame to the consumer's own facial features.

BLACKFIN AERO | Disassembly

The Blackfin Aero family includes rimless optical frames with ultra-thin profiles in precious beta titanium. Each AERO style is made with a 0.7 mm sheet of beta titanium for the bridge and 0.5 mm for the temples, in order to ensure maximum flexibility and comfortable fit.

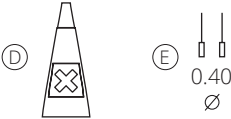
Blackfin Aero parts

- Ⓐ Demo lenses
- Ⓑ Bridge
- Ⓒ Temples



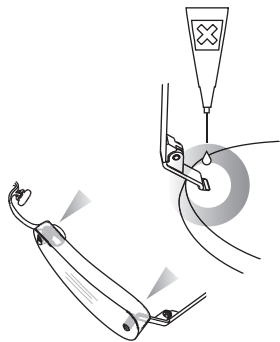
Tools

- Ⓓ UV glue remover
- Ⓔ Needles Ø 0.40 mm



1

2



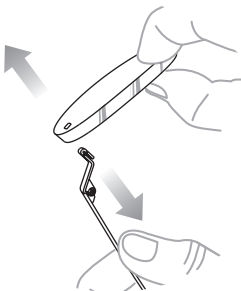
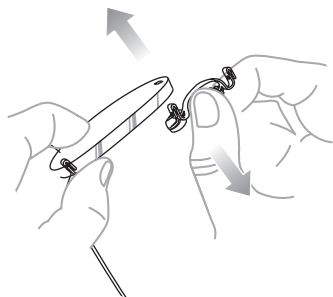
LEAVE FOR
A FEW HOURS



Use a needle $\varnothing$ 0.40 mm to place a small amount of UV glue remover in the holes at the back of the lenses.

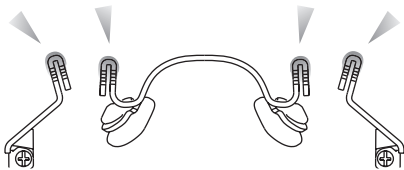
3

4



Leave for a few hours then remove the parts

5



Remove any remaining UV glue.
If necessary, add more glue remover

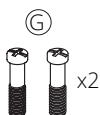
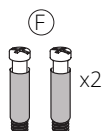
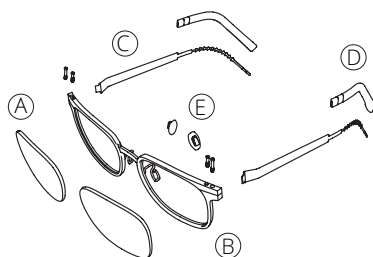
BLACKFIN ATLANTIC 01-04 |

Lens mounting

Blackfin Atlantic takes the technical advances it has evolved to date to a whole new level. The rim lock and hinge are, in fact, incorporated right into the 3 mm titanium front, merging precision mechanics with nimble design. A one-of-a-kind frame that encapsulates sophisticated mechanisms in a minimalist structure – the embodiment of complex simplicity.

Blackfin Atlantic Components

- (A) Demo lenses
- (B) Front
- (C) Temples
- (D) Temple tips
- (E) Soft tilt-pads silver
- (F) Self-locking screw x2
- (G) Rim lock screw x2
- (H) Flat washer x2
- (I) Small oval tube x2



Tools

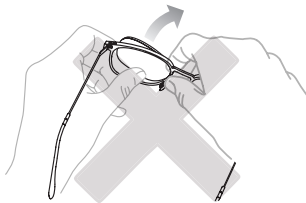
① Screwdriver PH00



①

Damages deriving from incorrect mounting procedures will not be considered under warranty.

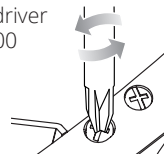
NO



DO NOT

force the lenses out
using hand pressure

Screwdriver
PH00

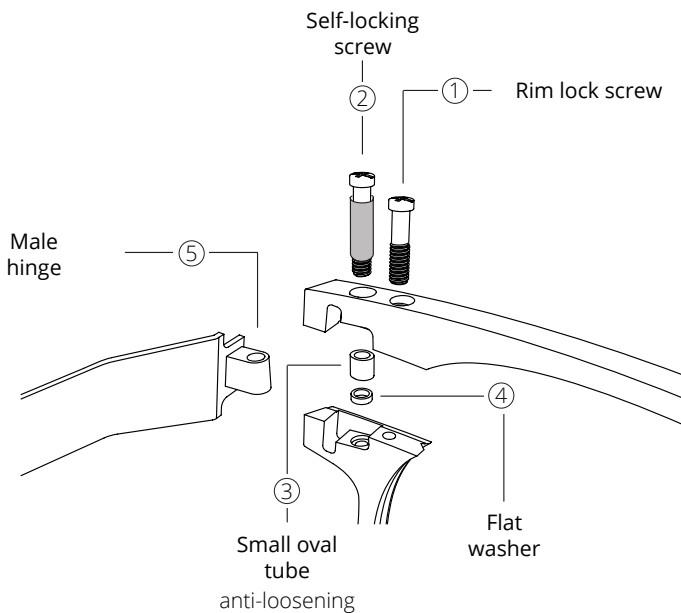


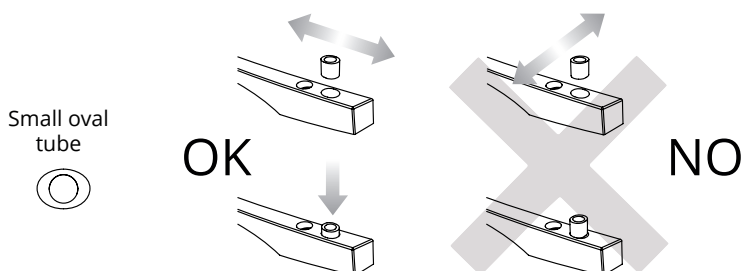
OK

DO NOT

use screwdrivers other than
the suggested model (PH00) in order
to avoid screw's deformations

Inner components details





Please note that the anti-loosening small tube is oval, not cylindrical. Make sure the tube is correctly aligned when inserting it.

WARNING:

The diagram shows a hinge screw being tightened into a hinge. A large 'X' is placed over the screw head, indicating that the screw should not be unscrewed. To the right, a separate diagram shows a "Hinge screw" and a "Self-locking" membrane. The screw is shown with a blue self-locking membrane applied to its head.

NO

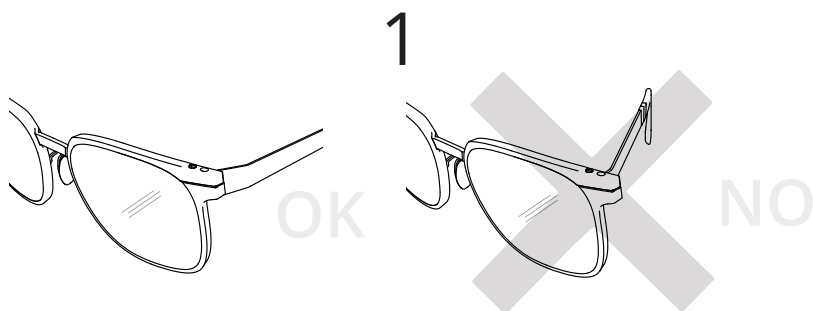
Hinge screw

Self-locking

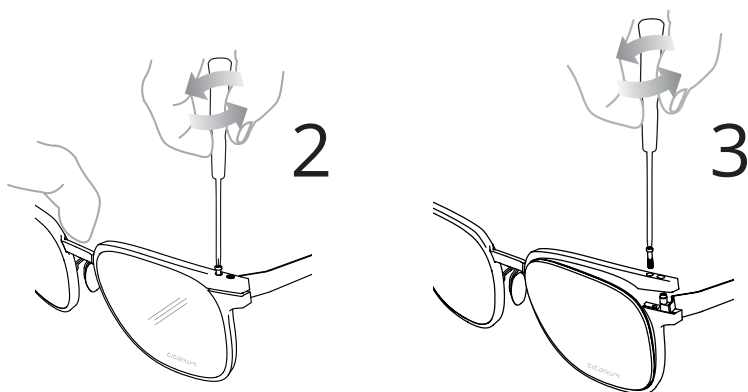
Never unscrew the hinge screw in order not to compromise the anti-loosening system inside. If it is necessary to remove the screw (e.g. temple replacement) it is essential to fit a new screw with a whole (intact) blue self-locking membrane.

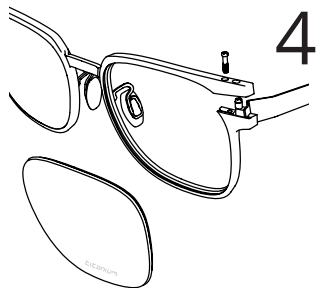
It is always possible to tighten this screw in order to increase the friction of the hinge.

To facilitate lens assembly, open the temple completely. This operation is necessary to ensure a proper insertion of the small oval tube in the following lens assembly steps.

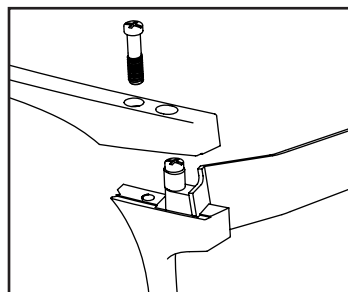


Unscrew and remove the rim lock screw in order to open the rim lock. The hinge block will remain fastened to the lower part of the front, coming out freely from the upper part.

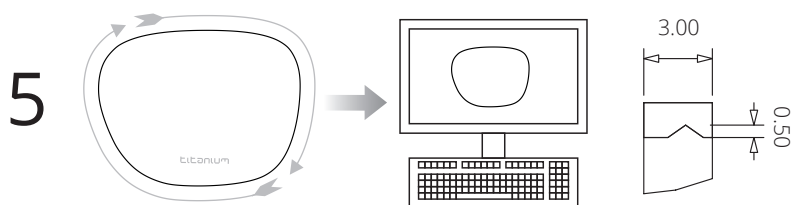




Detail:

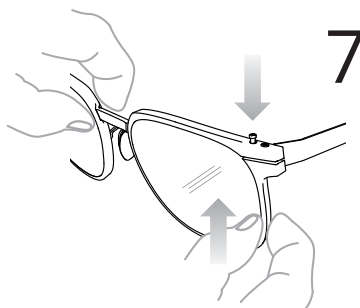
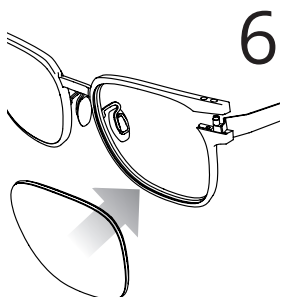


Proceed with the lens edging by probing it, as shown in fig. 5.

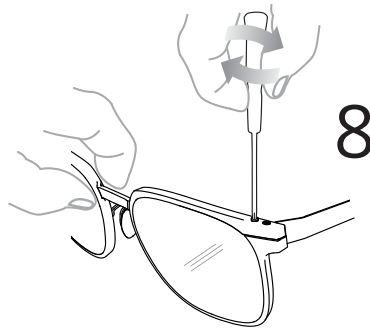


Lens mounting

With the hinge block open, insert the ophthalmic lens, paying attention to reinsert the hinge block into its oval seat at the top of the front.



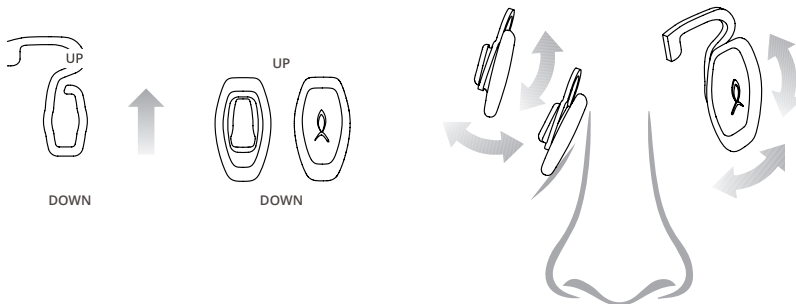
Insert and tighten the rim lock screw.



Improved comfort and adjustability

Blackfin Tilt-pads and dedicated pad arm.

Comfort and adjustability enhanced thanks to the new pad arms. The new Tilt-pads in soft PVC offers additional comfort and great adjustability.



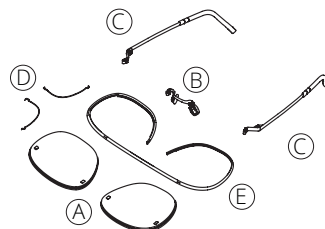
BLACKFIN AERO WIRE | Mounting

The Aero Wire line is a contemporary reinterpretation of the classic rimless frame that inserts a titanium wire into the structure that wraps around the edge of the lens, creating a thin top-rim double-bridge that stops at the nylon, all the while preserving the design and functionality of the Aero family.



Blackfin Aero Wire components

- (A) Demo lenses
- (B) Bridge
- (C) Temples
- (D) Nylon wire
- (E) Titanium Wire decoration



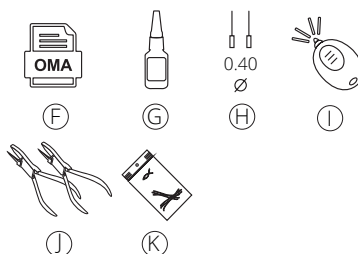
Prescription lens materials

Recommended with index 1.6, 1.67, TVX 153 and PC

Not recommended with index 1.5, 1.5 (photochromic UV filter), 1.74

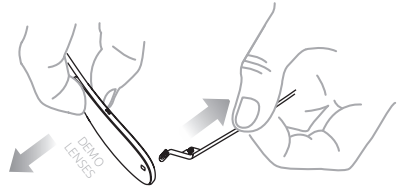
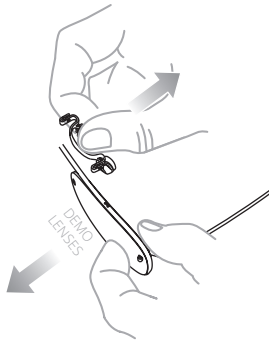
Tools

- (F) OMA file
- (G) UV glue
- (H) Needles Ø 0.40 mm
- (I) UV lamp
- (J) Opticians' pliers
- (K) Nylon wire kit



1

2

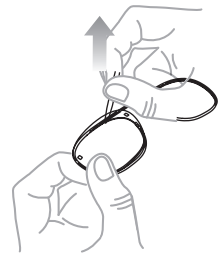
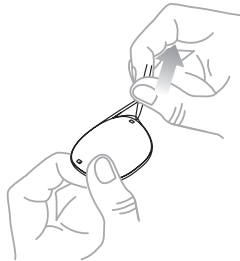
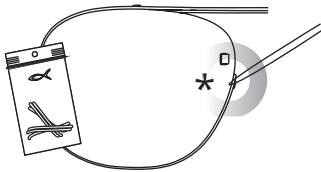


Detach all components from the demo lenses.

3

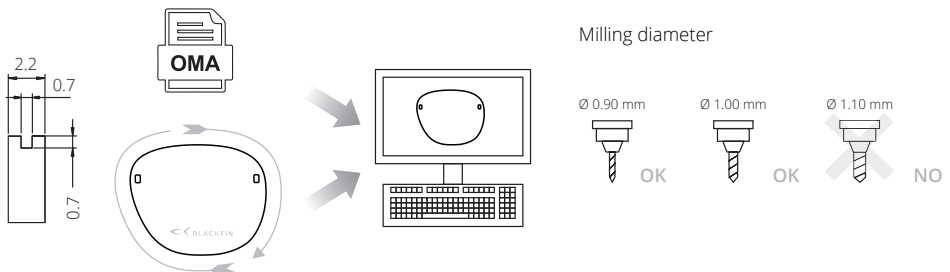
4

5

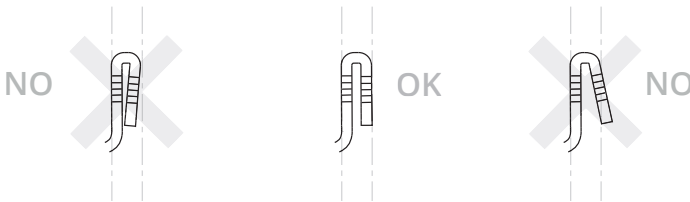
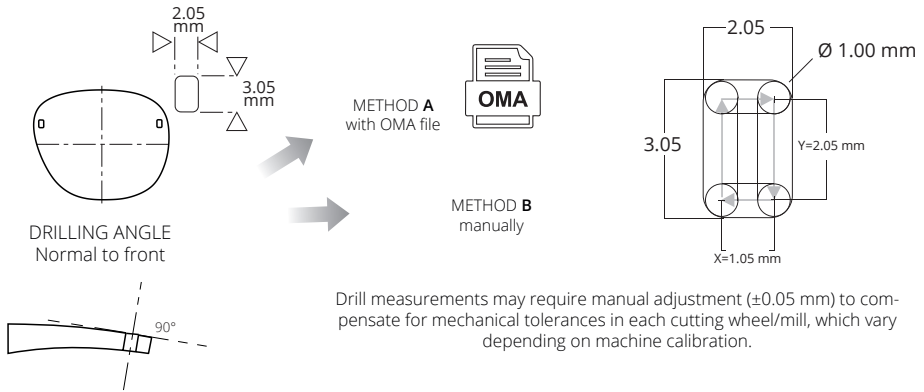


Pull out the Titanium Wire decoration (E) by applying pressure from the inside to the outside, in the nose area. **N.B.: If you need to replace the nylon wire, use the replacement kit supplied (K).**

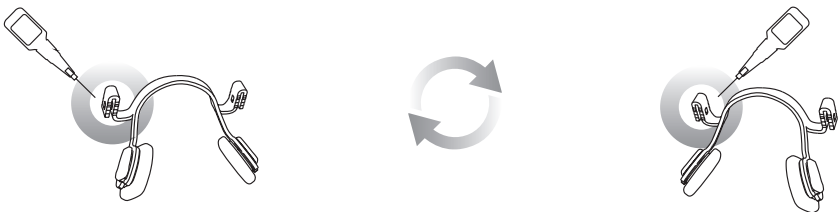
6



Proceed to lens edging by either using the supplied OMA files or by mechanical probing
WARNING: OMA Files are provided by Blackfin upon request.

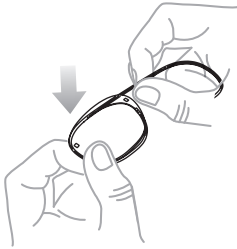
**WARNING:**

The angle of the hook pins must not be altered; they must be parallel.

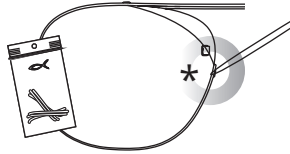


Using a $\varnothing 0.40$ mm needle (H), place a small amount of adhesive (G) just above the holes in the bridge (B).

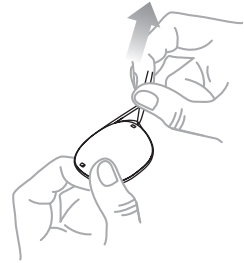
10



11

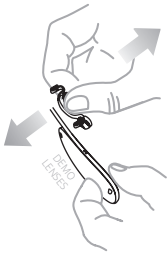


12

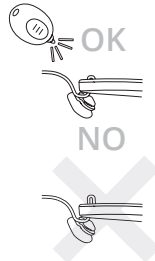


Insert the ophthalmic lenses into the Titanium Wire decoration groove cut (E), then with the help of the supplied replacement kit (K), start at an easy-to-install point (*) and slide the nylon thread and slide the nylon wire along the profile, separating the lens from the decoration (E).

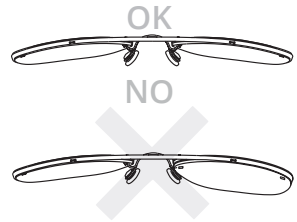
13



14



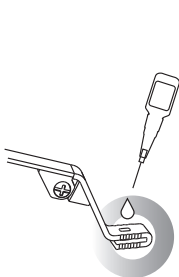
15



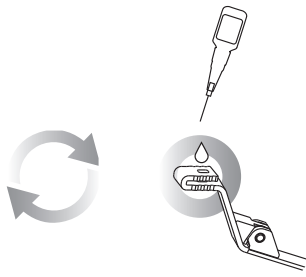
Attach the bridge to the lenses, carefully ensuring correct insertion of the hook pins as shown in Figure 14 and proper front alignment as shown in Figure 15. Cure under a UV lamp for 10 seconds. Wait a few hours for the glue to harden.

WARNING: The hook pins must remain parallel. Do not alter their angle.

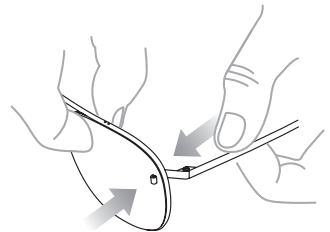
16



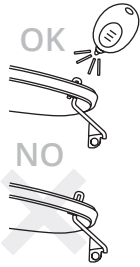
17



18



19



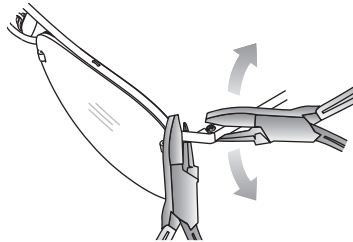
20



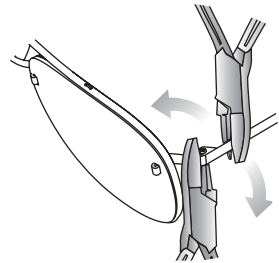
Attach the temples to the lenses, carefully ensuring correct insertion of the hook pins as shown in Figure 8 and proper front alignment as shown in Figure 17. Cure under a UV lamp for 18 seconds. Wait a few hours for the glue to harden.

WARNING: The hook pins must remain parallel. Do not alter their angle.

21



22



Only use suitable pliers with rubber jaws to make further adjustments to the pantoscopic and temple angle, in order to customize the mounted frame to the consumer's own facial features.

WARNING:

Always handle the parts carefully to prevent damaging their finish.

BLACKFIN AERO WIRE | Disassembling

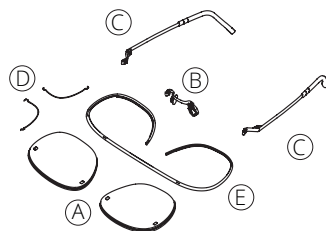
The Aero Wire line is a contemporary reinterpretation of the classic rimless frame that inserts a titanium wire into the structure that wraps around the edge of the lens, creating a thin top-rim double-bridge that stops at the nylon, all the while preserving the design and functionality of the Aero family.



DOWNLOAD THE MOUNTING
INSTRUCTIONS

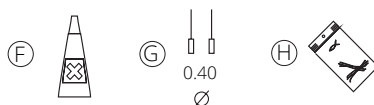
Blackfin Aero Wire components

- Ⓐ Demo lenses
- Ⓑ Bridge
- Ⓒ Temples
- Ⓓ Nylon wire
- Ⓔ Titanium Wire decoration



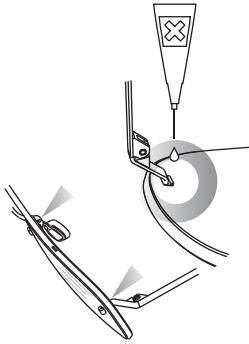
Tools

- Ⓕ UV glue remover
- Ⓖ Needles Ø 0.40 mm
- Ⓗ Nylon wire kit



1

2



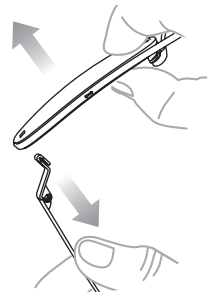
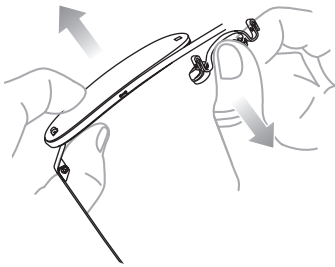
LEAVE FOR
A FEW HOURS



Use a needle Ø 0.40 mm (G) to place a small amount of UV glue remover (F) in the holes at the back of the lenses.

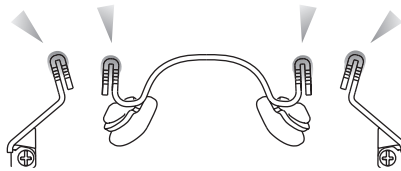
3

4



Leave for a few hours then remove the parts

5

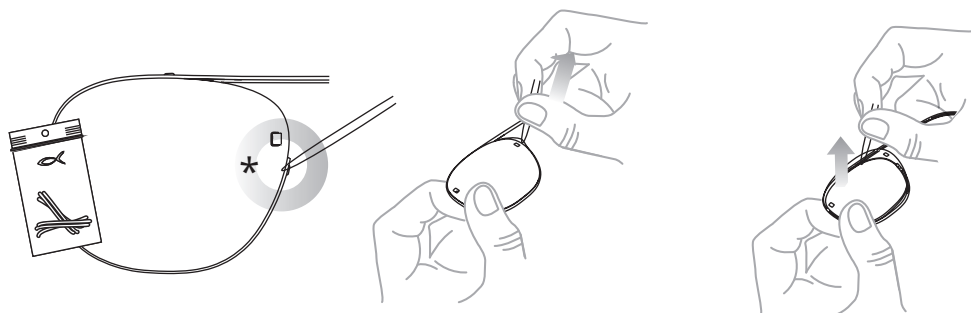


Remove any remaining UV glue.
If necessary, add more glue remover.

6

7

8



By using the replacement kit supplied (H), start from an easy-to-insert point (*) and slide along the profile, separating the lens from the decoration (E).

BLACKFIN RAZOR | Lens mounting

Make sure to follow these instructions to correctly mount the lenses in any Razor model.

Remove both the screws on the hinge using a screwdriver, open the monoblock hinge and take out the demonstration lens.

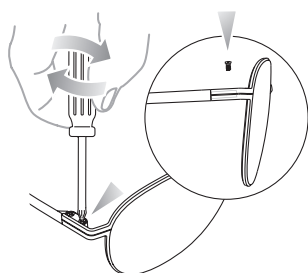
Place the prescription lens in the rim, put the screws back in place and tighten.

WRONG

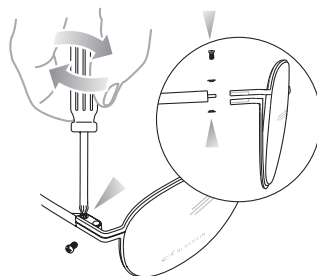


Warning: Any possible damage to the frame deriving from lens removal or replacement and failure to comply with these instructions will not be considered a production defect and consequently handled under warranty.

1

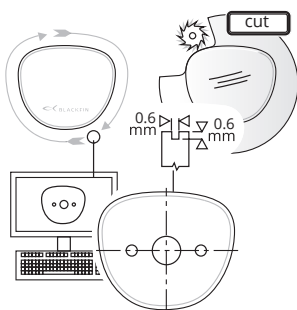


2

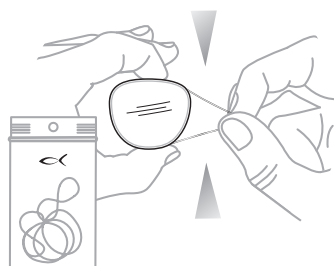


Important: pay attention to the washers when removing the second screw because they may pop out.

3

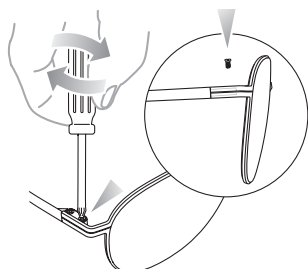


4

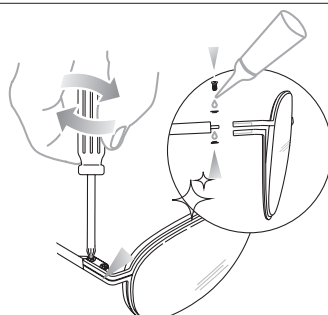


In order to ensure the correct closure of the Blackfin monoblock hinge, each lens will be supplied with a specific o-ring.

5



6



In order to make the assembling the hinge easier, pour a small amount of specific oily substance onto the washers.

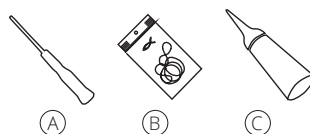
BLACKFIN RAZOR | Temple replacement

Please follow these instructions when replacing the temple on any of the models in the Blackfin Razor collection. The new monoblock hinge will enable opticians to replace the temples quickly and efficiently, without interfering with the fitting of the prescription lens.

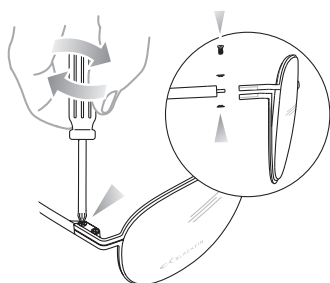
Remove the screw nearest the temple tip only using a screwdriver. Once it has been removed, the temple can easily be pulled out of the monoblock hinge and quickly replaced, without interfering with the fitting of the prescription lens.

Tools

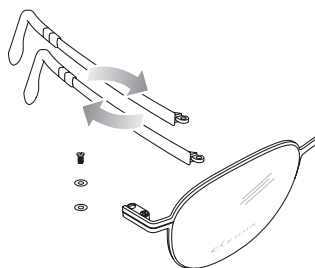
- (A) PH00 screwdriver
- (B) O-ring
- (C) Oil for parts



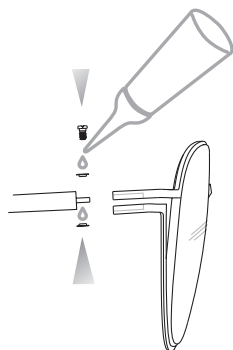
1



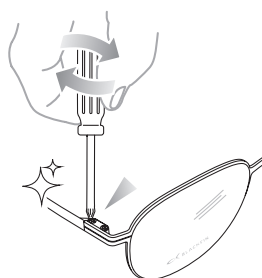
2



3



4



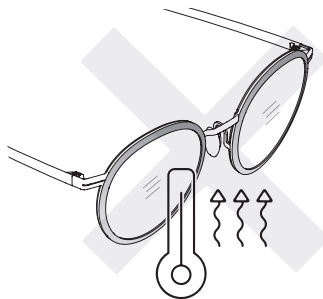
In order to make assembling the hinge easier, pour a small amount of specific oily substance on the washers.

BLACKFIN NEW AURA |

Cold mounting

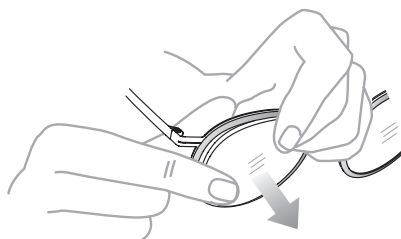
The beta titanium optical frames in the new Blackfin Aura family are brightened by rims derived from a colored lens. Transformed, the new Aura frames are thinner than previous versions and combine the two technical materials based on a functional design that ensures greater stability and simplicity in pressure-mounting the lenses.

CAUTION:

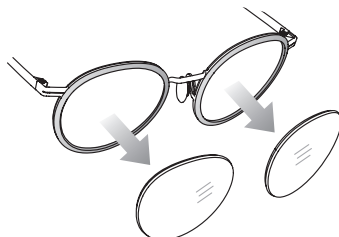


Do not heat the nylon rims, as this could cause deformation.

1

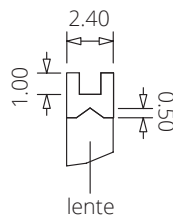
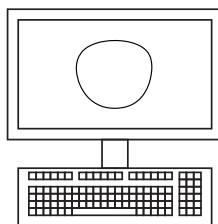
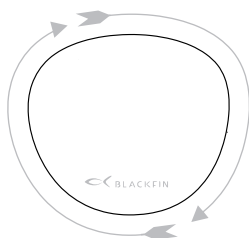


2



Remove the demo lenses from the frame by applying pressure from the inside of the rim.

3



Proceed with the lens edging according to the measurement obtained from the mechanical probing

5



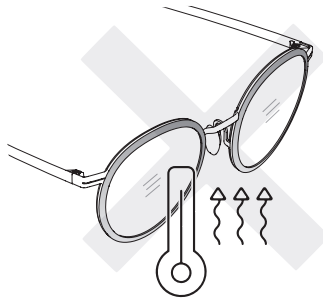
Do not heat the nylon rims.

BLACKFIN NEW AURA |

Rim replacement

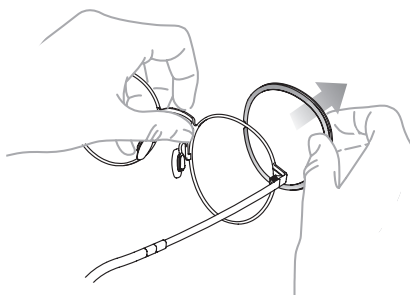
The beta titanium optical frames in the new Blackfin Aura family are brightened by rims derived from a colored lens. Transformed, the new Aura frames are thinner than previous versions and combine the two technical materials based on a functional design that ensures greater stability and simplicity in pressure-mounting the lenses.

CAUTION:

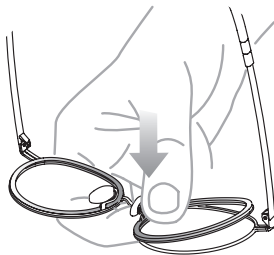


Do not heat the nylon rims to facilitate the procedure, as this may cause them to deform.

1

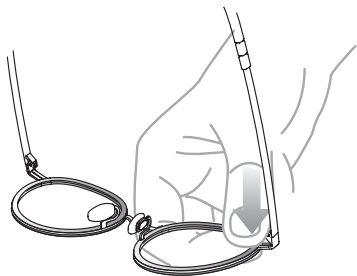


2

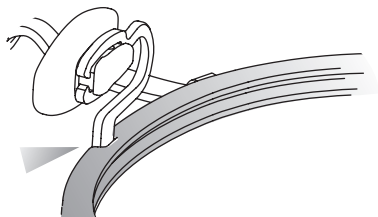


Remove the nylon rims by applying pressure from the inside of the frame.

3



4



When assembling the lenses, start by first inserting the pad arm in the anti-rotation eyelet or the nylon rim.

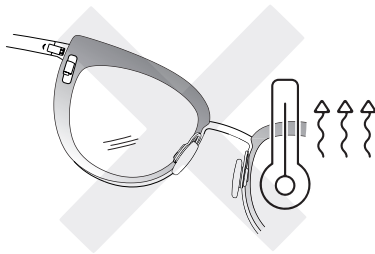
BLACKFIN ACETATE AURA |

Cold mounting

Make sure to follow the indicate procedure to mount lenses in any model of the AURA collection. Please only use cold mounting, as heating the rims could cause deformation.

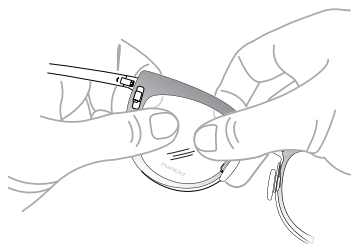
The demo lenses can be removed by applying pressure from the inside out. Opening the rim lock is not necessary.

CAUTION:

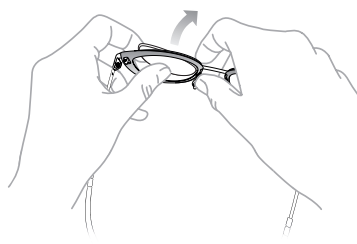


Do not heat the nylon rims, as this could cause deformation.

1

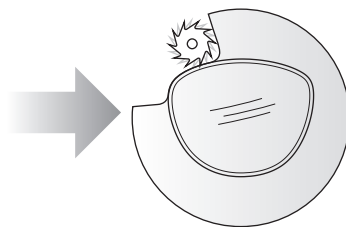
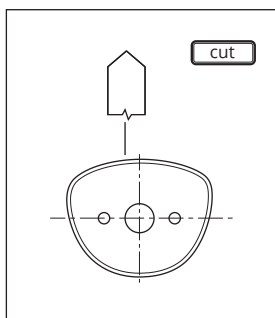
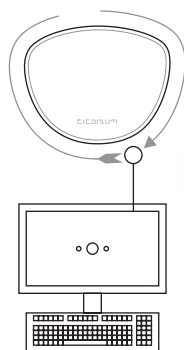


2



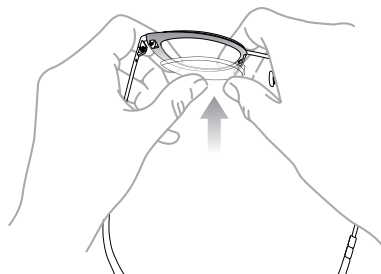
It is not necessary to open the rim lock to remove the lens.

3

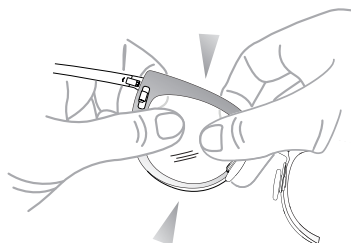


4

5



6



Do not heat the acetate rings.

BLACKFIN | Acetate Aura Rim Protect

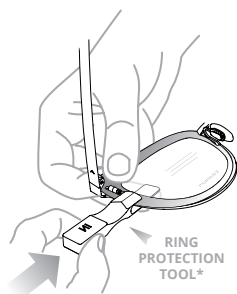
Aura Rim Protect simplifies lens fitting and removal for opticians, especially on Aura collection models with pronounced acetate top rims. It prevents scratches and marks on the acetate from screwdriver use. Aura Rim Protect enables opticians to fit or remove lenses correctly, protecting the acetate from any scratches or marks made by the screwdriver.

Tools

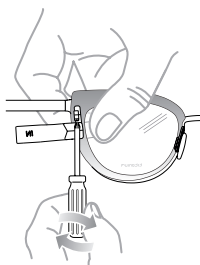
Ⓐ Aura Rim Protect
2ATR00354V0



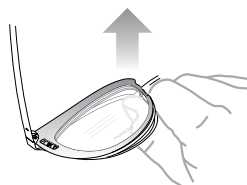
1



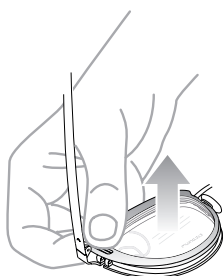
2



3



4



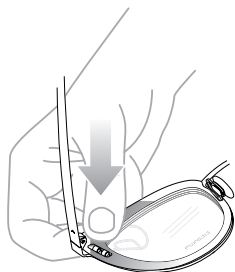
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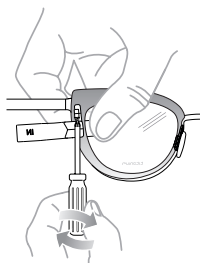
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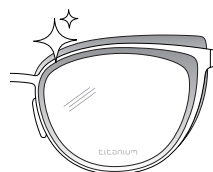
7



8



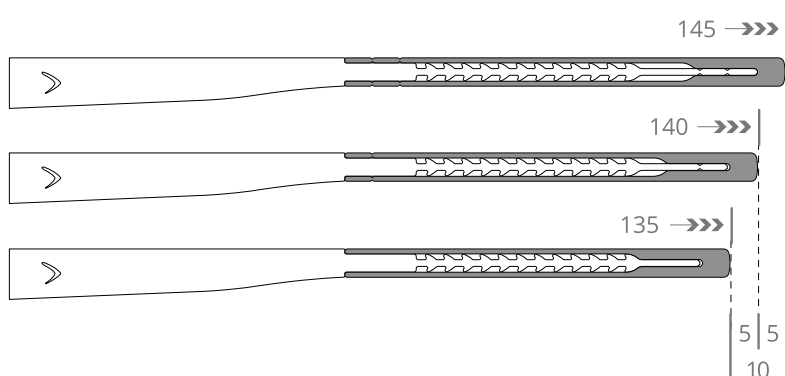
9



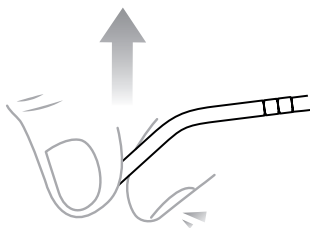
SWORDFISH | Temple tips system

The SWORDFISH temple tip has been carefully studied to ensure maximum adaptability to the face, with an ergonomic frame that offers unbeatable comfort for the wearer. In just three simple steps, opticians can shorten the temples by hand to deliver a product that meets every customer's individual needs.

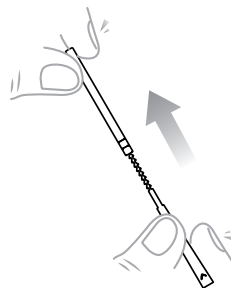
Temples can be shortened up to 1.0 cm thanks to the break-off guide of the patented Swordfish system. After straightening the temple tip, remove the temple tip and cut the temple along the break-off guides to shorten the temple by 0.5 or 1.0 cm.



1

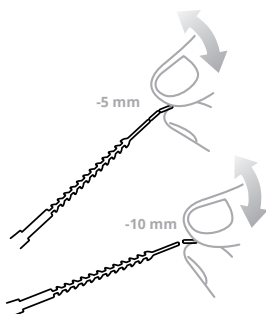


2

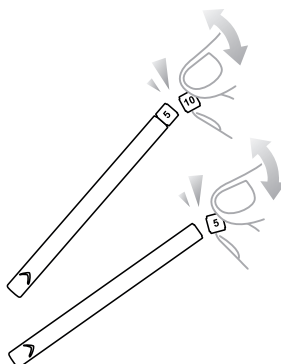


To adjust, straighten the temple tip to facilitate its release.

3

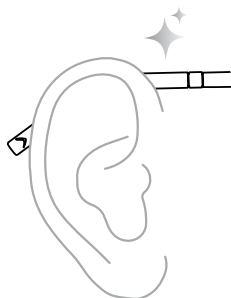


4



Manually shorten the frame temples (-5 or -10 mm) to adapt to the consumer's own facial features.

5



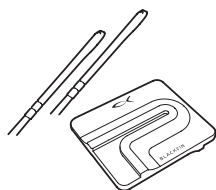
SWORDFISH | Templetips Bender

The Blackfin Temple Tips Bender is a plate which has been designed to restore the natural curvature of the temple after it has been shortened, to ensure a customised fit.

It is made of a thermoplastic material and with a different slot to adjust the Swordfish temple tip on one side and the Mini Swordfish temple tip on the other.

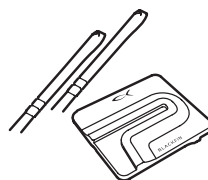
Thanks to the ergonomic design of the plate and the tips, it just takes a couple of seconds to fit the tip into the slot and then bend it to your customer's requirements.

TEMPLE TIPS BENDER 2ATR00344V0



SIDE A

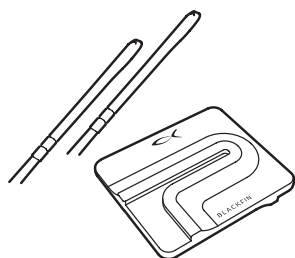
For Mini Swordfish



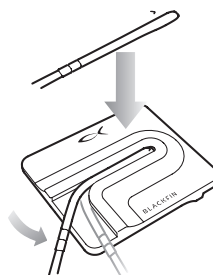
SIDE B

For Swordfish

1



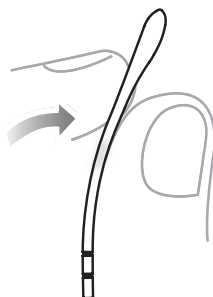
2



3



4



5



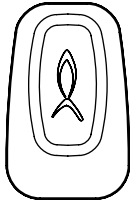
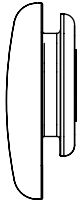
N.B.:
For an even more customised fit, you can adjust the Swordfish
temple tips by hand by bending them inwards.

LITEPADS | Nosepads

At Blackfin, functional design is a milestone of enhancing the wearer's experience. LitePads are a key innovation, providing exceptional comfort and practicality. Made from medical-grade silicone, these pads offer softness, durability, and a safe, skin-friendly touch. Their ergonomic shape evenly distributes the weight of the eyewear, ensuring all-day lightness and stability. Available in two sizes—medium and large—LitePads cater to diverse needs, making every frame even more comfortable and functional.

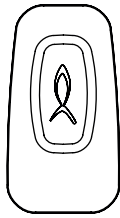
Blackfin LitePads:

SIZE: MEDIUM



TRASPARENT
MEDICAL SILICONE

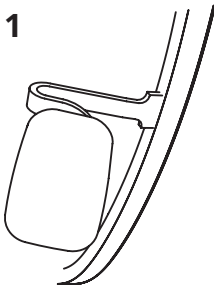
SIZE: LARGE



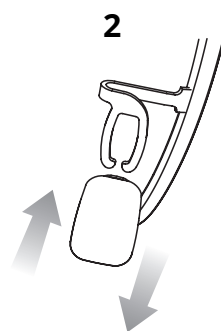
TRASPARENT
MEDICAL SILICONE

LitePads Mounting

1



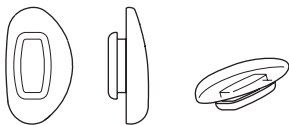
2



ULTRA-PADS | Nosepads

Blackfin customers looking for a softer, more customized nose pad will love Ultra-Pads. Their flexible design makes them easy to insert and remove, they're compatible with all Blackfin pad arm clips, and they're made from a combination of curved/semi-rigid TPE and silicone.

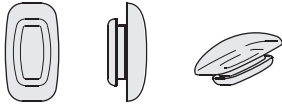
Asian Fit



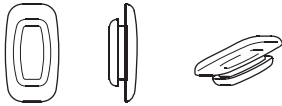
BLACKFIN Silicone Nose Pads
Asian Soft

CODE: 1ALN00044V0

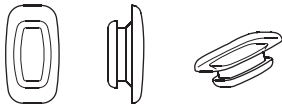
Others



BLACKFIN TPE Nose Pads Curved Semi Rigid
TPE*
CODE: 1ALN00045V0



BLACKFIN Silicone Nose Pads
SILICONE
CODE: 1ALN00042V0



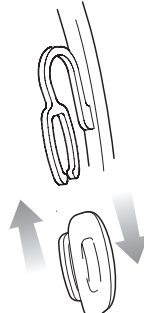
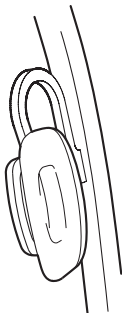
BLACKFIN Silicone Nose Pads
SILICONE
CODE: 1ALN00043V0

* What is TPE? Thermoplastic elastomers are made of high-quality thermoplastic rubber that is extremely durable and strong. It is elastic and flexible, offering exceptional comfort.

1

BLACKFIN | Ultra-Pads™ Mounting

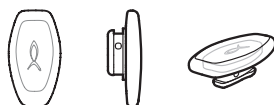
2



TILT-PADS | Nosepads

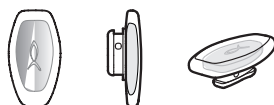
Blackfin Tilt-Pads combine a modern, elegant design with exceptional comfort. Made from hypoallergenic medical PVC, they feature a clear resin pad with the BLACKFIN logo and, in some versions, shiny gold or silver accents. The innovative tilting technology ensures a perfect fit for any nose shape.

Blackfin TILT-PADS™ available



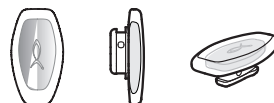
BLACKFIN Transparent TILT-PAD Nose Pads

CODE: 1ALN00047V0



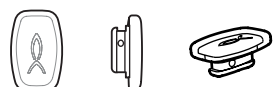
BLACKFIN Silver TILT-PAD Nose Pads

CODE: 1ALN00048V0



BLACKFIN Gold TILT-PAD Nose Pads

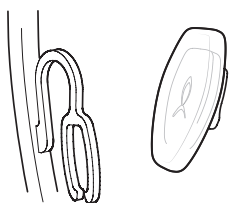
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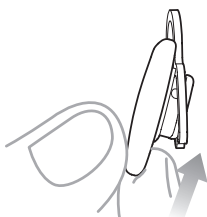
BLACKFIN Transparent TILT-PAD Nose Pads

CODE: 1ALN00050V0

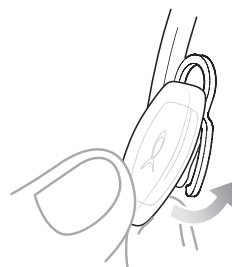
1



2

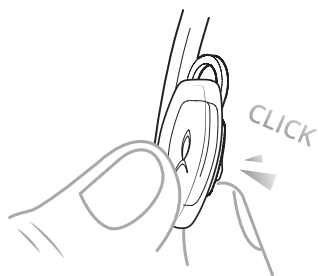


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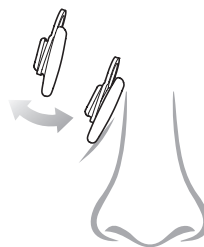


Do not cut or widen the pad arms.

4

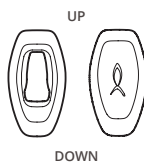


5



The new tilting technology enhances comfort even further.

Correct fitting



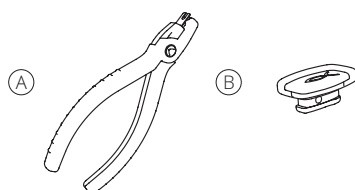
TILT-PADS | Remover

The Blackfin Tilt-Pads Remover is ergonomic pliers made of a thermoplastic material that have been designed to remove Blackfin Tilt-Pads with very little effort.

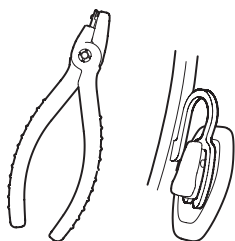
Just follow the instructions and in a couple of seconds you can remove the old pads (which cannot be reused) and replace them with a new pair, thanks to the simple yet clever pliers-frame clipping system.

Tools

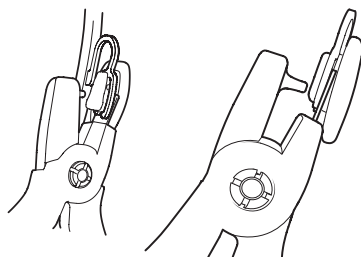
- (A) Tilt-pads remover
2ATR00348V0
- (B) Nose Pads Tilt-pads



1

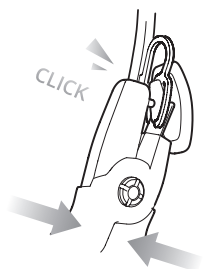


2

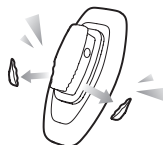


Carefully insert the metal part of the pliers between the nose pad and the pad arm.

3



4



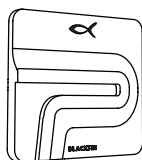
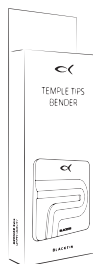
Pads are for single use only and must be replaced with a new pair after removal.



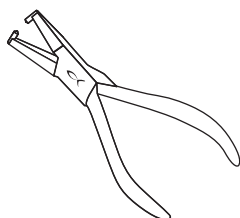
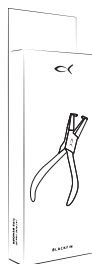
SERVICE PACKS

BLACKFIN

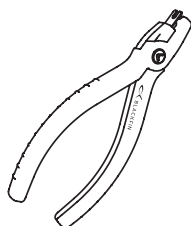
SERVICE PACKS | Tools



SWORDFISH
Templetips Bending Tool
2ATR00344V0



BLACKFIN AERO LOOP Pliers
5SRV00059V0

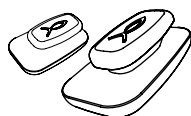


TILT-PADS
Nosepads Removing Tool
2ATR00348V0



BLACKFIN AURA
Rim Protection Tool
2ATR00354V0

SERVICE PACKS | Nosepads



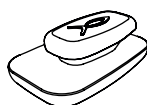
BLACKFIN Silicone LITE PADS Nose Pads - Service Pack 6 PRS mixed sizes

5SRV00055V0



BLACKFIN Silicone LITE PADS Nose Pads - Service Pack 5 PRS size M

5SRV00057V0



BLACKFIN Silicone LITE PADS Nose Pads - Service Pack 5 PRS size L

5SRV00056V0



BLACKFIN Tilt Pads Mix Service Pack

5SRV00030V0

SERVICE PACKS | Nosepads



BLACKFIN Transparent TILT-PAD Nose Pads - Service Pack 5 PRS

5SRV00047V0



BLACKFIN Silver TILT-PAD Nose Pads - Service Pack 5 PRS

5SRV00048V0



BLACKFIN Gold TILT-PAD Nose Pads - Service Pack 5 PRS

5SRV00049V0



BLACKFIN Silicone Nose Pads Asian Soft - Service Pack 5 PRS

5SRV00044V0

SERVICE PACKS | Nosepads



BLACKFIN TPE Nose Pads
Curved Semi Rigid - Service Pack 5 PRS

5SRV00045V0



BLACKFIN Silicone Nose Pads
Flat Soft - Service Pack 5 PRS

5SRV00042V0

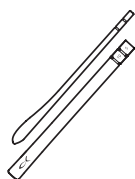
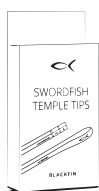


BLACKFIN Silicone Nose Pads
Flat Tilt Soft - Service Pack 5 PRS

5SRV00043V0

SERVICE PACKS | Accessories

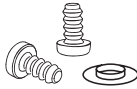
Templetips



**BLACKFIN Templetips Mix
Service Pack**

5SRV00020V0

Screws and Washers



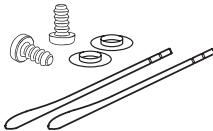
BLACKFIN ONE Screws + Washers - Service Pack

5SRV00021V0



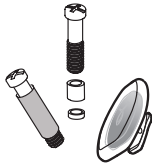
BLACKFIN ATLANTIC Screws + Washers - Service Pack

BOX - 5SRV00053V0



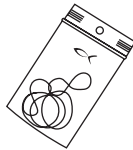
BLACKFIN PACIFIC Screws + Washers - Service Pack

BOX - 5SRV00054V0



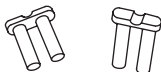
BLACKFIN ATLANTIC 01-04 Screws + Washers - Service Pack

BOX - 5SRV00051V1



BLACKFIN AURA O-Rings Service Pack - 4 PCS

5SRV00013V0



BLACKFIN ZERO Rimless Lens plugs - 16 PCS

5SRV00006V0



DIGITAL TOOLS

BLACKFIN

BLACKFIN | Digital Tools

BLACKFIN HYPERCLOUD

hc.blackfin.eu

HyperCloud is Blackfin's exclusive online platform, accessible with a password by customers, distributors, and agents.

Designed to be intuitive and efficient, it allows users to browse the catalog, place orders, track service requests, access administrative documents, and navigate seamlessly through a range of available services — for a smooth and centralized management experience.

BLACKFIN ACADEMY

academy.blackfin.eu

Academy is the section of Blackfin HyperCloud dedicated to training and updates on technical, product, and marketing topics.

Here, you can explore product features in depth, discover the latest innovations, and access valuable resources to effectively communicate Blackfin's identity and values.

BLACKFIN NEWSROOM

newsroom.blackfin.eu

Newsroom is the information hub of Blackfin HyperCloud — your go-to source for staying up to date with the latest news.

From new campaigns and product launches to recent partnerships, this is where you'll find all the updates that tell the story of Blackfin's ongoing evolution.

MEDIA DOWNLOAD AREA

download.blackfin.eu

The Media Download Area is the dedicated space for all of Blackfin's multimedia content.

Here, you can download campaign images, emotional videos, digital versions of our lookbooks, as well as logos and brand guidelines — everything you need to effectively convey the essence of the Blackfin identity.

TECH BOOK

BLACKFIN



BLACKFIN

neomadeinitaly | titanium | eyewear

Blackfin, created and Hand Made in Italy
at the Blackfin Black Shelter sustainable factory.
www.blackfin.eu

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