

## USER'S GUIDE: BASE EDGE CARE

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### TO TAKE CARE THE BASE EDGE BEFORE SHARPENING THE SIDE EDGE

The secret of the manoeuvrability and precision of driving a ski or a snowboard is a polished base edge, without rust, marking or too many scratches. This is obtained by grinding and polishing, with a diamond file in a file guide. If the base edge is taller than the ski-base, our RACE file lets you lower it faster



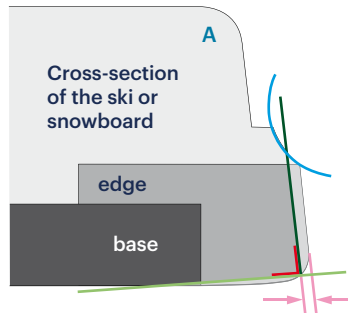
## INFORMATIONS GÉNÉRALES

### TUNING IS:

- lightly polish the base edge to reduce roughness in order to increase the handling and precision of the skis and snowboards
- sharpen the side of the edge to eliminate the rounding and give a sharp edge (diagram A)

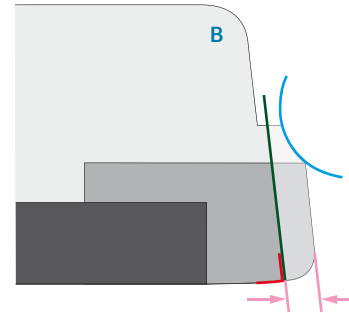
### COLORS OF DIAGRAMS

- polishing of the base edge
- sharpening of the side edge
- thinning of the edge
- ABS sidewall material removal with the Tuning-File sidewall plane



**DIAGRAM A: SHARPENING WITH TUNING**

We begin by polishing the base edge before sharpening the side. A sharp edge is thus obtained with a minimum of thinning



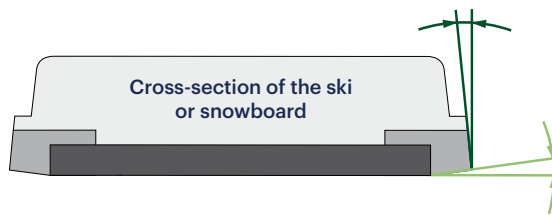
**DIAGRAM B: TUNING-FREE SHARPENING**

If the base edge is not polished beforehand, more steel must be removed to obtain a sharp edge.

### TUNING ANGLES

The base edge bevel angle is necessary for the precision of handling and the maneuverability of skis and snowboards, while the side edge angle acts on the grip

- Base edge bevel angle
- Side edge angle

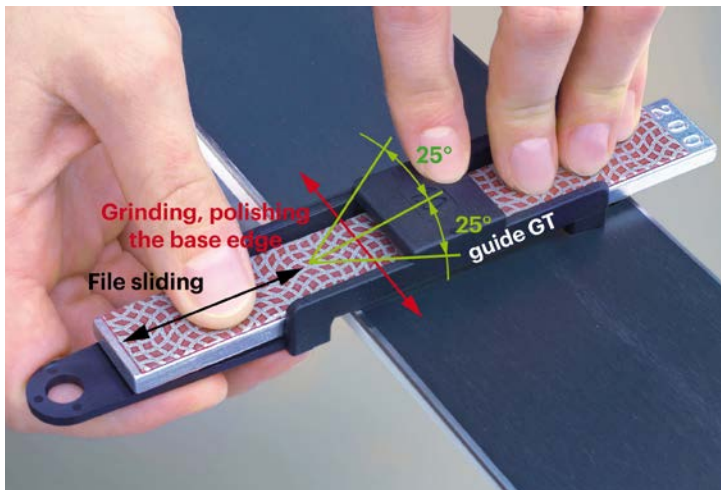


Sports, giant slalom, ski cross	1°	3°
Casual, touring	1°	1°
Slalom	0,5°	3° à 6°
Freestyle, downhill, boarderX	1,5°	1° à 3°

### HOW TO PROCESS

1. Our long diamond files are always used with a GT guide, dry or with water
2. Start by sanding with Diamond file 200 (or 120 if the edge is damaged), then polish to 400. The exacting users can finish at 800 (race polishing).
3. Insert the long diamond file into the GT guide corresponding to the desired base edge angle. Apply the thick rounded part of the guide against the side of the edge and sand with back and forth movements with light and even pressure in both directions. Do not deviate by more than 25° from the perpendicular to the ski,
4. Regularly slide the file into the guide to prevent it from being worn in the same place, thus to avoid the undesirable effect of rounding the edge.
5. Wash diamond files often with soap-water: wet, spread a drop of dishwashing liquid, let it act for a moment, brush with a brass brush and rinse with water.

otherwise the angle of bevel becomes larger than that indicated on the guide.



### FAST QUICK LINING OF THE BASE WITH THE EDGE OR REMOVING BIG SCRATCHES BELOW

A very striped or protruding base edge of the base decrease the manoeuvrability of skis and snowboards. Our Bevel file Race (LTR) used with our GT guides is very effective for lowering the edge.

Here's how:

1. Remove areas hardened by stones using the long diamond file 120 or 200.
  2. With the LTR, file by pulling against yourself and releasing the pressure or lifting the file during the return movements.
  3. File sliding from the back to the front of the ski or snowboard ! Contrary to what one could imagine, it results in a better glide on the snow. As a proof, the tip of a felt pen slips much better on the edge on the opposite direction of filing than in the same direction.
  4. After filing, polish with long diamond file 400 and possibly 800.
- These operations are always performed with the files in a GT guide.

### USEFUL INFORMATION

- The diamond strip of the files is self-adhesive, we propose it in a spare part. Tear off the used tape, remove the traces of glue ideally by leaving the aluminum on a small cloth soaked strip with adhesive remover for 5 minutes, then scrub. If the glue is very hard, scratch gently.
- Bevel file Race (LTR). Since 2015, two holes on the bar clearly indicate where the file is. To replace the file with a new self-adhesive file (LTRE), remove the old file by inserting a stem into one of the holes. Remove the traces of adhesive ideally by leaving a minuscule cloth moistened with benzine (gasoline for cleaning) on the adhesive for 5 minutes and then rub it.
- The X-Flat workbench or the T-SUPP table jigs greatly facilitates all tuning operations. [www.tooltonic.com](http://www.tooltonic.com)
- If there is a lot of damage, give your ski or snowboard to your sports store for a service in the robot machine. In case the machine leaves a structure under the base edge, hand polish it according to this manual.