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tyrolia.com
- TYROLIA DEALER AREA - tyrolia.com

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Ski bindings 2006/2007

Active safety in all skiing situations

TYROLIA bindings are equipped with unique and active safety features. They permit a controlled, safe release.

This technology considers the simultaneous combination of torsion and bending loads in all falls. The binding releases correctly according to the physiological characteristics of the leg.

The uniqueness of TYROLIA bindings has also been confirmed by the independent TÜV Product Service Institute. The minimum friction release with ABS ensured excellent results in the safety tests. TYROLIA has therefore been awarded the HIGH QUALITY MARK for tried-and proven safety of the highest standards.

Safety for unrestricted skiing fun

The TYROLIA Line 2006/2007 again represents the values that stand for all TYROLIA products:

QUALITY - SAFETY - PERFORMANCE - LIGHT WEIGHT
TYROLIA RAILFLEX STANDARD

SPOTLIGHT
15% LESS WEIGHT ON THE NEW RF 10.
Already one of the lightest bindings on the market, the 06.07 RF 10 just got another 15% lighter without compromising one bit on safety, performance or convenience.

GLIDING ON RAILS.
TYROLIA’s signature RAILFLEX SYSTEM II can be fitted with any ski using our RAILFLEX Base. It maintains the characteristics of the ski and allows the ski to flex freely.

MOUNTING WITHOUT DRILLING.
Mounting a binding on a RAILFLEX base is as easy as it gets. Simply slide it on the rails, one screw and you are ready to go. The binding is mounted within seconds.

INSTANT BOOT LENGTH ADJUSTMENT.
Just look at the sizing scale on the bottom of the RAILFLEX band and snap the toe and heel into the right position. If necessary, the position of the heel can then be fine-tuned +/- 4 mm after mounting.
EXCELLENT CONTROL.
With the RAILFLEX base perfectly aligned with the ski’s binding area, power is distributed evenly throughout the entire length of the ski. A smoother ride and more power in controlling your ski are the natural consequences.

OPTIMAL POWER TRANSMISSION.
With the binding firmly mounted on the RAILFLEX base, power transmission from foot to edge becomes even more direct.

DOUBLE FREEFLEX.
The free-floating suspension of DOUBLE FREEFLEX is based on two elements:
For one, double-sided oblong holes in the RAILFLEX base enable the ski to flex underneath. Secondly, gliding toe and heel units provide even more freedom and make sure toe- and heel-pressure remain constant for more safety and performance.

PERFORMANCE-RELATED BOOT CENTERING.
Expert skiers prefer their bindings mounted slightly towards the tail of their skis.
Recreational skiers like to move them forward for easier turn initiation.
TYROLIA bindings can be re-centered at any time, allowing to find the right position for any skier in any terrain.

+15
MODERATE SPEED
Moves body weight to the front. The ski is easier to turn and control.

0
ALL-AROUND
Balanced position for all-mountain performance.

-15
EXPERTS
Shifting body weight towards the tail, the ski becomes more stable at high speeds and more powerful coming out of turns.
01 FREEFLEX

SAFETY
+ Thanks to the free-gliding heels, the forward pressure stress of the binding on the boot remains unchanged. It guarantees consistent release performance, safe ski steering and minimal risk of injury in crashes.

CONVENIENCE
+ Optimum edge grip and smooth control of the ski.

PERFORMANCE
+ The ski can decamber freely and maintains its natural dynamic properties.

02 FREEFLEX PLUS

SAFETY
+ Guarantee of consistent release performance, safe ski steering and so reduced risk of injury.

CONVENIENCE
+ Increased ski control, when competing in top speed range.

PERFORMANCE
+ Spring-loaded mechanism reduces vibrations in the ski at high speeds, especially in extreme counter-flex situations, after tight turns and compressions.
03 DIAGONAL TOE

FULL DIAGONAL
+ Intelligent 180° release action both horizontally and vertically. Maximum safety in backward spin-crash situations.

RACE DIAGONAL
+ Diagonal Toe tuned for racing purposes. Higher release force vertically than horizontally holds up to the high backward lean forces in racing.

04 DIAGONAL HEEL

SAFETY
+ With a 150° release range the DIAGONAL heel releases directly into the direction of fall and reduces pressure on knees and ligaments.

CONVENIENCE
+ Cleverly designed DIAGONAL release cam for easy step in.

PERFORMANCE
+ Perfectly balanced heel retention in all directions enables high levels of power transmission without unwanted releasing.
05 **ABS SYSTEM**

**SAFETY**
+ No-friction release significantly reduces strain on ligaments in forward twisting falls. Perfect release regardless of temperature, boot-wear, icing-up or dirt on the binding.

**CONVENIENCE**
+ Self-cleaning design and maintenance free.

**PERFORMANCE**
+ Best Results in independent safety testing and awarded with the TÜV HIGH QUALITY MARK.

06 **TRP TOE SYSTEM**

**SAFETY**
+ The TYROLIA 4-Roller Pincer system remains flexible at all times, absorbing short stresspeaks on ligaments and automatically recentering the boot. Perfect 180° release action allows up to 30% higher retention force without compromising on safety.

**CONVENIENCE**
+ Easy entry and perfect centering of the boot no snow- or dirt-clogging.

**PERFORMANCE**
+ Positive power transmission, perfect power link between boot and binding (30% more accuracy than conventional cams).
TYROLIA
SUPERLIGHT STANDARD

One binding – three Generations.
The SL binding line is the slickest, safest and lightest binding system of TYROLIA. This year the SL 45 junior binding joins the SL 70 and SL 100 and completes the redesign of the SL family. Three generations of Super Light all-mountain performance.

TYROLIA Active Safety
Despite their light weight and slick design, the 06.07 SL bindings are fully equipped with TYROLIA safety features:
- ABS Anti Blocking System (on SL 70 ABS and SL 100 ABS)
- FULL DIAGONAL Toe with 180° release
- SUPER LIGHT Heel
- TRP TYROLIA Roller Pincer System

TYROLIA Design Standard
The SL series is famous for its contemporary design and perfect finish. In fact, we’re so proud of how good these bindings look, we’ve treated them with Dura-Coat so they never lose their shine.

TYROLIA Convenience Standard
People who are looking for a particularly light binding are trying to make their skiing as effortless as possible. So we made sure light weight and ease of use on the new SL line go together.

TYROLIA Engineering Standard
In order to make our bindings both as safe and as light as possible, TYROLIA engineers have to be fully up-to-date both on materials and design. So-called Finite Element Calculations allow us to conduct virtual stress simulations and find out exactly where we can shave off another couple of grams without compromising a micrometer on safety.
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<th>ZON</th>
<th>kg/us</th>
<th>Platform</th>
<th>Stand-height heel</th>
<th>Stand-height toe</th>
<th>AFD</th>
<th>Toe system</th>
<th>Heel system</th>
<th>Length adjustment range</th>
<th>Brake type</th>
<th>Weight set</th>
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<td>SL 110 Promo</td>
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<td>Aero</td>
<td>24 mm</td>
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PARTS-REFERENCE CHART RETAIL

- Heel Lever
- Brake Treadle
- FF-Plus-Activation
- ABS
- FF-Band Cover
- Brake Arm
- ABS
- Toe Cover
- Boot Center Adjustment
- ABS
- Adjustment Screw
- Visual Indicator
- Railflex Base
- Railflex Lite Rails
- Teflon
- Visual Indicator
- Adjustment Screw
- Sole Height Adjustment
- Cyber Toe Base Plate
- ABS
- Cyber Bridge
- ABS
- Heel Housing
- ABS
- Visual Indicator
- Boot Center Adjustment
- ABS
- Adjustment Screw
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<th>Stand-</th>
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<td>Power Brake</td>
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<td>A-adult</td>
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<td>Power Brake</td>
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<td>Power Brake</td>
<td>LD 78</td>
<td>1875 g</td>
<td>A-adult + C-children</td>
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</table>
Heel Lever
Heel Base Plate
Brake Stand Plate
Brake Pedal
Heel Cup
Brake Arm
“One Touch”-Lever
ABS
Visual Indicator
SymPro Single Code-Scale
Adjustment Screw
Symrent Single Code-Scale
AFD
Visual Indicator
Special: Colored ABS
Since season 2005/06 TYROLIA offers wider templates.

The advantages of the new templates are:

- Enlarged range of the fixing mechanism (see technical details)
- Extension of the clamping jaws of 10 mm – for skis with integrated plates

The drill patterns haven’t changed. Only on the Railflex & Railflex Lite templates the drill pattern for the Railflex Lite Base is added. The other templates are for the mounting of the same bindings like their forerunner models. Conversely this means that the old jigs can still be used.

The reason for the new templates was the increase of wider skis. With the new models there is no adapter set necessary for ski widths up to 108 mm.

In details, this means:

<table>
<thead>
<tr>
<th>Description</th>
<th>New Article Number</th>
<th>Old Article Number</th>
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Technical Details:

New models: for ski widths from 59 – 108 mm  
Old models: for ski widths from 59 – 82 mm  
With the adapter set: from 45 – 132 mm  
With the adapter set: from 45 – 106 mm
### Drill Template Selection

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</tr>
<tr>
<td>Power Select Freeride 4</td>
<td>Power Select Freeride 4</td>
</tr>
<tr>
<td>Power Select Freeride 3</td>
<td>Power Select Freeride 3</td>
</tr>
<tr>
<td>Power Select Freeride 2</td>
<td>Power Select Freeride 2</td>
</tr>
<tr>
<td>Power Select Freeride 1</td>
<td>Power Select Freeride 1</td>
</tr>
<tr>
<td>Power Select Freeride 0</td>
<td>Power Select Freeride 0</td>
</tr>
<tr>
<td>Power Select Freeride 9</td>
<td>Power Select Freeride 9</td>
</tr>
<tr>
<td>Power Select Freeride 8</td>
<td>Power Select Freeride 8</td>
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<tr>
<td>Power Select Freeride 7</td>
<td>Power Select Freeride 7</td>
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<tr>
<td>Power Select Freeride 6</td>
<td>Power Select Freeride 6</td>
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<tr>
<td>Power Select Freeride 5</td>
<td>Power Select Freeride 5</td>
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<tr>
<td>Power Select Freeride 4</td>
<td>Power Select Freeride 4</td>
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<tr>
<td>Power Select Freeride 3</td>
<td>Power Select Freeride 3</td>
</tr>
<tr>
<td>Power Select Freeride 2</td>
<td>Power Select Freeride 2</td>
</tr>
<tr>
<td>Power Select Freeride 1</td>
<td>Power Select Freeride 1</td>
</tr>
<tr>
<td>Power Select Freeride 0</td>
<td>Power Select Freeride 0</td>
</tr>
</tbody>
</table>
1. Compatibility
Presently the drill template 92 W is valid for:

| MOJO 20 (X), FREE FLEX PLUS 18 (X), FREE FLEX PLUS 17, FREE FLEX PLUS 14, FREE FLEX PLUS 11, LD 12 CYBER, LD 12, MOJO 15, MOJO 11, MOJO 7, | SL110 CARVE ABS, SL110 ABS, SL110, SL100, SL 70 ABS, SL 70 AC, SL 70, CARVE PLATE 13 SLR, CARVE PLATE 9 SLR, JUNIOR RACING PLATE |

All TYROLIA adult bindings can be used with skis 140 cm and longer. The junior bindings MOJO 7, SL 70 ABS, SL 70 AC and SL 70 are delivered with screws for skis shorter than 140 cm. If they are mounted on skis longer than 140 cm or on TYROLIA Carve plates, replace them with longer screws (see screw chart in this manual-page 34).

Drill template 92 W can be used for ski widths from 59 mm to 108 mm. For other skis use the template adapter set (art. nr. 162 569). With this adapter set, skis from 45 to 132 mm can be mounted.

Note: TYROLIA offers different types of brakes. Refer to the brake overview on page 38 for brake and binding compatibility.

POWER BRAKE
The standard brake, the POWER BRAKE LD 78 (art.nr. 162 578), can be used for skis up to 78 mm. For ski widths from 78 to 93 mm use POWER BRAKE LD wide 93 (art.nr.162 768) and from 93 to 115 mm use POWER BRAKE LD FAT 115 (art.nr.162 603).

SL BRAKE
The SL BRAKE 78-04 (art.nr. 162 642) is for skis up to 78 mm, for wider skis use the SL BRAKE wide 90 (art.nr. 162 755), which is for skis ranging from 78 mm to 90 mm.

JUNIOR BRAKE
The SL JUNIOR BRAKE 72-05 (art.nr.162 764) can be used for ski widths up to 72 mm for wider skis, from 72 to 90 mm, use SL Junior Brake wide 90 (art.nr.162 776).

The Description of the brakes always includes a number like 72, 78, 90, 93, 115, and so on .... This number stands for the maximum ski width in the brake area and not in the ski center!!!

2. Adjusting the Drill Template
To adjust the template unlock the locking lever (1) by rotating it counter-clockwise to the far left position.

FREE FLEX PLUS and CYBER:
Due to the center piece these bindings are limited to ski boots with sole lengths from 257 to 362 mm.

Place the ski boot in the template and push the template together until the stops (2) come against the ski boot sole. Lock the lever to the far right position to prevent length change, then take the boot out of the template.

FOR OTHER BINDINGS:
Place the ski boot in the template and push the template together until the stops (2) come against the ski boot sole. Lock the lever to the far right position to prevent length change, then take the boot out of the template.

For CARVE PLATE 13 SLR, CARVE PLATE 9 SLR, and JUNIOR RACING PLATE: See Page 33.

3. Positioning of the Drill Template
Open the clamping jaws (4) of the template by rotating the clamping handles (5) and then place template correctly on the ski, with the boot midsole indicator (3) aligned with the mounting mark on the ski. Be sure the template is evenly seated against the ski’s top surface. Release clamping handles to attach the template to the ski.
Check the boot midsole mark with template mark. If they are not the same use the boot midsole mark to align the template with the ski mounting mark.

**Note:** Keep in mind that some ski manufacturers do not use the center of boot sole location method. Always follow their instructions.

### 4. Drilling the holes

If not otherwise specified by the ski manufacturer, use a 4.1 Ø x 9.0 mm drill bit. Use a 4.1 Ø x 7.0 mm drill bit for skis that are shorter than 140 cm. Drill the holes using the appropriate drill bit. If required by the ski manufacturer, tap the hole with a 12 AB tap. After drilling place a drop of TYROLIA glue in each hole. It lubricates the screws and seals the holes (pict 1).

### 5. Mounting

**For FREE FLEX PLUS:**

Connect the two parts of the FREE FLEX-bridge. The pins must face up and lock in the slots (pict 2).

Place the heel and the Free Flex band over the prepared holes and fasten the four screws.

**Note:** For drill template positions up to 31 cm the FREE FLEX-band cover has to be shortened. For template positions 32 cm and up no shortening is needed (pict 3).

Connect the FREE FLEX-band cover (1) with the toe base plate (2) at the position shown on the drill template boot length indicator (see pict 4).

Slide the connected parts into the heel plate (1) until the mounting holes for the toe are aligned with the prepared holes in the ski. Connect the toe base plate with the FREE FLEX-band (see pict 5).

Place the toe over the holes and drive the screws. Peel off the sticker which indicates the activation of the Free Flex function. Turn the eccentric screw (1) 180° clockwise as it is shown on the sticker (see pict 6).
Turning the eccentric screw activates the Free Flex Plus function. Always deactivate the Free Flex Plus function before dismounting the binding.

For LD 12 CYBER:
Connect the LD CYBER bridge with the CYBER toe base plate according to centimeter mark from the drill template.
The arrow (2) on the CYBER bridge should point to the selected centimeter mark (pict 7).

Carefully place the toe with the attached CYBER bridge over the prepared holes and fasten the screws. Attach the heel to the CYBER bridge by placing the steel hook located below the ski brake into the rear slot of the bridge. It is important that you just insert the rear heel screws and then the front.

For SL 110 CARVE ABS:
Connect the Carve-Flex-Mid-plate with tab located under the heel base plate (pict 8).

Place the assembly over the prepared holes and fasten the screws. Place the toe over the Carve-Flex-Mid-Plate and the drilled holes and fasten the screws. Drive the rear screws first, then the front screws.

FOR OTHER BINDINGS:
Place the binding over the predrilled holes and drive the screws.

6. Forward pressure
Check to make sure the boot meets international standards and is not damaged.
Place the boot in the binding and close it. The indicating pointer should rest within the scribed area (pict 9) if not, you have to adjust the forward pressure.

DON’T OPEN THE LENGTH ADJUSTMENT LOCK AS LONG AS A SKI BOOT IS FIXED IN THE BINDING.
Place the ski boot in the open binding and rest the boot heel on the brake treadle. Lift the length adjustment lock (2) with a screwdriver and slide the heel until the heel cup just touches the boot. Lock the length adjustment by pushing it down. Latch the boot in the binding and check forward pressure again. The toe pincers should not be pressed open and the indicating pointer should rest within the scribed area (pict 9).

7. Adjusting the toe unit - SL 70 AC
The SL 70 AC is the only junior binding, which is for both ski boots type A-adult and ski boots type C-children. All other junior and adult bindings are only for ski boots type A-adult.
The toe sole lug of the SL 70 AC is pre-adjusted for ski boots type A-adult. If ski boots type C-children are used, use a screwdriver to push the wedge down under the toe unit up to the stop. (pict 10)
8. Adjusting the release values
The release values of the toe and heel should be determined by height and body weight (ISO/ASTM) method. Set the binding accordingly with the adjustment screws. We recommend the use of a calibrated testing device and that you keep a written record of whether the system passes or fails (requirement in the US).

Note: Release/retention settings above a release moment of 100 NM at the toe and 400 NM at the heel are higher than the international standards recommend and are used solely at the skier’s own risk!

9. Function Check
Entry/exit: Check to make sure that the boot does not catch on the heel hold down lug.
Brake: press the brake treadle (1) down by hand (pict 12 and 13).

10. Final Check
• Has the proper mounting point been selected?
• Functional brake test passed?
• Have all screws been fastened tightly?
• Has the forward pressure been properly set?
• Are the release values of the toe and heel properly determined and set?
• Is the instruction for use booklet ready to be handed over to the consumer?

Lateral elasticity of the toe:
Press the boot laterally outward. The binding must re-center the boot easily and quickly from a 15 mm lateral displacement (Model MOJO 7, SL 70 ABS, SL 70 AC and SL 70 – 10 mm).
1. Compatibility
Presently the drill template 94 W is valid for:

**SL 45**

This binding can be used for children’s skis shorter than 140cm. The standard brake, the SL KID BRAKE 74 (art.nr. 162 399), can be used for skis up to 74 mm, for wider skis use the SL KID BRAKE wide 84 (art.nr. 162 658), which is for skis from 74 to 84 mm.

The Description of the brakes always includes a number like 74 or 84. This number stands for the maximum ski width in the brake area and not in the ski center!!!

2. Adjusting the Drill Template
Unlock the locking lever (1) by rotating it counter-clockwise.

Place the template on the ski. Place the ski boot in the template. Push the template together until the stops are against the sole (2).

Lock the lever (1) to prevent length change and take the boot out of the template.

3. Positioning of the Drill Template
Align the boot midsole indicator (3) with the midsole mounting mark on the ski. Be sure the template is evenly seated against the ski’s top surface.

Check the boot midsole mark with template mark. If they are not the same use the boot midsole mark to align the template with the ski mounting mark.

**Note:** Some ski manufacturers do not use the center of boot sole location method. Always follow the ski manufacturer’s instructions.

4. Drilling the holes
If not otherwise specified by the ski manufacturer, use a 4.1 Ø x 7.0 mm drill bit. Drill the holes using appropriate TYROLIA drill. If required by the ski manufacturer, tap the hole. Place a drop of TYROLIA glue into the holes. It lubricates the screws and seals the ski. (pict. 14).

5. Mounting
Mounting the Toe
Place toe unit over the holes and fasten the screws.

Mounting the Heel
Place the heel over the holes. Drive the front screws first, then the rear ones.

6. Forward pressure
Place the boot in the binding and close it. The indicating pointer should rest within the scribed area (pict 15), if not you have to adjust the forward pressure.

**DON’T OPEN THE LENGTH ADJUSTMENT LOCK AS LONG AS A SKI BOOT IS FIXED IN THE BINDING.**

Place the ski boot in the open binding and rest the boot heel on the brake treadle. Lift the length adjustment lock (2) with a screwdriver and slide the heel until the heel cup just touches the boot. Lock the length adjustment by pushing it down. Latch the boot in the binding and check forward pressure again. The toe pincers should not be pressed open and the indicating pointer should rest within the scribed area (pict 15).
7. Adjustment
Check to make sure that the boot meets international standards and is not damaged.

Adjusting the toe unit:
The toe sole lug is pre-adjusted for ski boots type C-children.
If ski boots type A-adult are used, use a screwdriver to push the wedge forward up to the stop (pict 17).

Use a screwdriver to return the wedge to the type C-children position (pict 18).

Adjusting the release values
The release values at toe and heel should be determined by height and body weight (ISO/ASTM) method. Set the binding accordingly with the adjustment screws. We recommend the use of a calibrated testing device and that you keep a written record of whether the system passes or fails (requirement in the US).

8. Function Check
Entry/Exit: Check to make sure that the boot does not catch on the heel hold down lug.

Brake: press the brake treadle (1) down by hand. The brake arms (2) must automatically return to the braking position when the treadle is released (pict 19).

Lateral elasticity of the toe:
Press the boot laterally outward. The binding must re-center the boot easily and quickly from a 10mm lateral displacement.

9. Final Check
• Has the proper mounting point been selected?
• Functional brake test passed?
• Have all screws been fastened tightly?
• Has the forward pressure been properly set?
• Are the release values of the toe and heel properly determined and set?
• Is the instruction for use booklet ready to be handed over to the consumer?
1. Compatibility
Presently the drill template SP 2003 W is valid for:

- SP 130 ABS DEMO AERO,
- SP 120 ABS,
- SP 100 ABS,
- SP 90 ABS,
- SP 75 ABS,
- SP 45,
- CARVE PLATE 13 SLR (only if mounted for Rental),
- CARVE PLATE 9 SLR (only if mounted for Rental),
- JUNIOR RACING PLATE (only if mounted for Rental)

All TYROLIA adult bindings can be used with skis 140 cm and longer. The junior binding SP 75 ABS is delivered with screws for skis shorter than 140 cm. If it is mounted on skis longer than 140 cm or on TYROLIA Carve plates, replace them with longer screws (see screw chart in this manual – page 34). SP 45 is only for skis under 140 cm.

Drill template SP 2003 W can be used for ski widths from 59 to 108 mm. For other skis use the template adapter set (art. nr. 162 569). With this adapter set skis from 45 to 132 mm can be mounted.

**Note:** The standard brake for all SP bindings, except the SP 45, is the POWER BRAKE LD 78 (art.nr. 162 578), which can be used for skis up to 78 mm. For ski widths from 78 to 93 mm use POWER BRAKE LD wide 93 (art.nr. 162 768) and from 93 to 115 mm use POWER BRAKE LD FAT 115 (art.nr. 162 603).

The standard brake for the SP 45 is the SL KID BRAKE SYMPRO 74 (art.nr. 162 559), which can be used for skis up to 74 mm, for wider skis use the SL KID BRAKE wide 84 (art.nr. 162 658), which is for skis from 74 to 84 mm.

The **Description of the brakes always includes a number like 74, 78, 93 or 115. This number stands for the maximum ski width in the brake area and not in the ski center!!!**

2. Positioning the Drill Template
Open the clamping jaws (4) by rotating the clamping handles (5) and then place the template on the ski.

Align the boot midsole indicator (3) for the appropriate binding model or Carve Plate with the midsole mounting mark on the ski.

Be sure the template is evenly seated against the ski’s top surface.

Release the clamping handles (5) and attach the template firmly to the ski.

**Note:** Some ski manufacturers do not use the center of boot sole location method. Always follow the ski manufacturer’s instructions.

3. Drilling the holes
If not otherwise specified by the ski manufacturer, for all SYMPRO adult models use a 4,1 Ø x 9,0 mm drill bit for skis 140 cm and longer.

For SP 90 ABS, SP 75 ABS and SP 45 use a 4,10 x 7,0 mm - drill bit for skis shorter than 140 cm.

Drill through the appropriate bushings (see table).

<table>
<thead>
<tr>
<th>Model</th>
<th>Color of Bushings</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 130 ABS Demo Aero</td>
<td>Yellow</td>
</tr>
<tr>
<td>SP 120 ABS</td>
<td>Yellow</td>
</tr>
<tr>
<td>SP 100 ABS</td>
<td>Yellow</td>
</tr>
<tr>
<td>SP 90 ABS</td>
<td>White</td>
</tr>
<tr>
<td>SP 75 ABS</td>
<td>White</td>
</tr>
<tr>
<td>SP 45</td>
<td>Red</td>
</tr>
<tr>
<td>CARVE PLATES</td>
<td>Black</td>
</tr>
</tbody>
</table>

If required by the ski manufacturer, tap the hole. After drilling place a drop of TYROLIA glue into the holes. It lubricates the screws and seals the holes (pict 20).
4. Mounting

Mounting the Toe

Connect the plastic mid section (3) with the metal toe track (1).
Place the assembled toe track (1) over the holes and drive the screws.
Open the one touch latch (2) and slide the toe piece on from the front.
Adjust the toe piece to the desired SINGLE CODE position and close the latch (2) (pict 21).

Make sure that the lever snaps in place completely (it may be necessary to slide the toe forward and backwards slightly).

Mounting the Heel

Place the heel unit with its brake, guide and track over the holes. Drive the rear screws first, then the front screws.

5. Forward pressure control

Place a suitable reference boot in the binding using the SINGLE CODE for length adjustment and close it.
Then check the indicator (see pict 22) located at the rear end of the heel piece. With boot inserted the pointer should rest in the middle of the scribed area.

If necessary, readjust the boot sole length, check the SINGLE CODE.

Note: Always remove the boot from the binding before adjusting.

6. Adjustment

For all Models

Find adjustment ranges and some handling hints in the “SYMREN / SYMPRO” section of the Technical Manual.
Take at least one reference boot satisfying all standards and free of functional damages to perform test adjustments with the binding.

Using the Single Code

Adjust toe and heel to the corresponding alpha-setting (SINGLE CODE) of the ski boot (pict 23).

If a boot of unknown size is used proceed as follows:
Place the boot in the toe cup. Slide the heel piece forward until it just touches the boot. Close the binding and check the forward pressure.

Adjusting the release values

The release values at toe and heel should be determined by height and body weight (ISO/ASTM) method. Set the binding accordingly with the adjustment screws. We recommend the use of a calibrated testing device and that you keep a written record of whether the system passes or fails (requirement in the US).
**Note:** Release/ Retention settings above a release moment of 100 NM at the toe and 400 NM at the heel are higher than the international standards recommend and are used solely at the skier’s own risk!

### 7. Function Check
Before the newly mounted ski equipment is rented perform a complete functional check.

**Note:** In some countries (USA) rental equipment has to pass a Pre-Season Test (See the Rental section of this manual).

The boot should not catch on the sole hold-down of the heel as it opens and closes.

**Brake**
Press the step-on plate (1) down by hand. The brake arms (2) must close and open automatically to the braking position when the step-on plate is released (pict 24).

![Diagram](pict 24)

**Lateral elasticity of the toe**
Press the boot laterally outward. The binding must re-center the boot easily and quickly from a 15mm lateral displacement. (Model SP 90 ABS, SP 75 ABS and SP 45 – 10 mm).

### 8. Final Check
- Has the proper mounting point been selected?
- Have all screws been fastened tightly?
- Has the forward pressure setting been controlled?
- Has at least one full adjustment been made using a representative reference boot including Release- / Retention setting and momentum test?
- Has the functional check been passed successfully?
- Functional brake test passed?
1. Compatibility

Presently the drill template SR 2003 W is valid for:

- SR 100,
- SR 70,
- SR 45,
- CARVE PLATE 13 SLR (only if mounted for Rental),
- CARVE PLATE 9 SLR (only if mounted for Rental),
- JUNIOR RACING PLATE (only Rental - SR 70)

SR 100 can be used with skis 140 cm and longer. The junior binding SR 70 is delivered with screws for skis shorter than 140 cm. If it is mounted on skis longer than 140 cm or on TYROLIA Carve plates, replace them with longer screws (see screw chart in this manual – page 34).

SR 45 is only for skis under 140 cm.

Drill template SR 2003 W can be used for ski widths from 59 to 108 mm. For other skis use the template adapter set (art. nr. 162 569). With this adapter set skis from 45 to 132 mm can be mounted.

Note: The standard brake for all SR bindings, except the SR 45, is the POWER BRAKE LD 78 (art. nr. 162 578), which can be used for skis up to 78 mm. For ski widths from 78 to 93 mm use POWER BRAKE LD wide 93 (art. nr. 162 768) and from 93 to 115 mm use POWER BRAKE LD FAT 115 (art. nr. 162 603).

The standard brake for the SR 45 is the SL KID BRAKE 74 (art. nr. 162 399), which can be used for skis up to 74 mm, for wider skis use the SL KID BRAKE wide 84 (art. nr. 162 658), which is for skis from 74 to 84 mm.

The Description of the brakes always includes a number like 74, 78, 93 or 115. This number stands for the maximum ski width in the brake area and not in the ski center!!

2. Positioning the Drill Template

Open the clamping jaws (4) by rotating the clamping handles (5) and then place template on the ski. Align the boot midsole indicator (3) for the appropriate binding model or Carve Plate with the midsole mounting mark on the ski. Be sure the template is evenly seated against the ski's top surface.

Release clamping handles (5) and attach the template firmly to the ski.

Note: Some ski manufacturers do not use the center of boot sole location method. Always follow the ski manufacturer's instructions.

3. Drilling the holes

If not otherwise specified by the ski manufacturer, for all SYMRENT adult models use a 4.1 Ø x 9.0 mm drill bit for skis 140 cm and longer. For ski shorter than 140 cm use a 4.1 Ø x 7.0 mm drill bit. Drill through the appropriate bushings (see table)

<table>
<thead>
<tr>
<th>Model</th>
<th>Color of Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR 100</td>
<td>Yellow</td>
</tr>
<tr>
<td>SR 70</td>
<td>Blue (q-R)</td>
</tr>
<tr>
<td>SR 70</td>
<td>White (i-J)</td>
</tr>
<tr>
<td>SR 45</td>
<td>Red (b-o)</td>
</tr>
<tr>
<td>SR 45</td>
<td>Green (j-w/F)</td>
</tr>
<tr>
<td>CARVE PLATES</td>
<td>Black</td>
</tr>
</tbody>
</table>

If required by the ski manufacturer, tap the hole. After drilling place a drop of TYROLIA glue into the holes. It lubricates the screws and seals the holes (pict 25).
4. Mounting

Mounting the Toe
Place toe piece on the prepared holes and drive the screws.

Mounting the Heel
Place the heel unit with its brake, guide and track over the holes. Drive the rear screws first, then the front screws.

5. Forward pressure control
Place a suitable reference boot in the binding using the SINGLE CODE for length adjustment and latch it. Then check the indicator (see pict 27) located at the rear end of the heel piece. With boot inserted the pointer should rest in the middle of the scribed area.

Note: If the forward pressure is not correct, readjust the boot sole length and check the SINGLE CODE.

Please make sure that no boot is placed in the binding during adjusting!

6. Adjustment

For all Models
Find adjustment ranges and some handling hints in the “SYMRENT” section of the Technical Manual.
Take at least one reference boot satisfying all standards and free of functional damages to perform test adjustments with the binding.

Using the Single Code
Adjust the heel to the corresponding alphasetting (SINGLE CODE) of the ski boot (pict 28).

If a boot of unknown size is used proceed as follows:
Place the boot in the toe cup. Slide the heel piece forward until it just touches the boot. Close the binding and check the forward pressure.

Adjusting the release values
The release values at toe and heel should be determined by height and body weight (ISO/ASTM) method. Set the binding accordingly with the adjustment screws. We recommend the use of a calibrated testing device and that you keep a written record of whether the system passes or fails (requirement in the US).

Note: Release/Retention settings above a release moment of 100 NM at the toe and 400 NM at the heel are higher than the international standards recommend and are used solely at the skier’s own risk!

7. Function Check
Before newly mounted ski equipment is rented perform a complete functional check.

Note: In some countries (USA) rental equipment has to pass a Pre-Season Test (See the Rental section this manual).
The boot should not catch on the sole hold-down of the heel as it opens and closes.
Brake
Press the step-on plate (1) down by hand. The brake arms (2) must close and open automatically to the braking position when the step-on plate is released (pict 29).

Lateral elasticity of the toe:
Press the boot laterally outward. The binding must re-center the boot easily and quickly from a 15 mm lateral displacement. (Model SR 70 and SR 45 – 10 mm)

8. Final Check
• Has the proper mounting point been selected?
• Have all screws been fastened tightly?
• Is the forward pressure setting correct?
• Has at least one full adjustment been made using a representative reference boot including Release-/Retention setting and momentum test?
• Has the functional check been passed successfully?
• Functional brake test passed?
1. Compatibility

Presently the drill template Railflex & Railflex Lite is valid for:

<table>
<thead>
<tr>
<th>RAILFLEX BASE II</th>
<th>RAILFLEX LITE BASE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFD 14</td>
<td>RFL 9</td>
</tr>
<tr>
<td>RFD 14 DEMO</td>
<td>RFL 9 W</td>
</tr>
<tr>
<td>RFD 12</td>
<td>RFL 7</td>
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<tr>
<td>RFD 11</td>
<td>RFL 4.5</td>
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<tr>
<td>RFD 11 DEMO</td>
<td></td>
</tr>
<tr>
<td>RF 11</td>
<td></td>
</tr>
<tr>
<td>RF 10</td>
<td></td>
</tr>
<tr>
<td>RF 9</td>
<td></td>
</tr>
</tbody>
</table>

For ski widths from 80 to 95 mm use POWER BRAKE LD Rail wide 95 (art.nr.162 766) and from 95 to 115 mm use POWER BRAKE LD Rail FAT 115 (art.nr.162 765).

For DEMO bindings the POWER BRAKE LD RAIL DEMO 80 (art.nr. 162 716) is for skis up to 80 mm, for wider skis use the POWER BRAKE LD RAIL DEMO WIDE 95 (art.nr. 162 767), which is for skis from 80 to 95 mm.

SL BRAKE
The SL BRAKE RAIL 78-06 (art.nr. 162 777) is for skis up to 78 mm, for wider skis use the SL BRAKE RAIL WIDE 90 (art.nr. 162 778), which is for skis from 78 to 90 mm.

The Description of the brakes always includes a number like 72, 78, 90, 93 or 115. This number stands for the maximum ski width in the brake area and not in the ski center!!!

Railflex Lite System
TYROLIA offers two versions of the RAILFLEX LITE band. The band is delivered with the RAILFLEX LITE BASE or is premounted on the integrated HEAD ski.

<table>
<thead>
<tr>
<th>Band version</th>
<th>short</th>
<th>long</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spare part number</td>
<td>162757</td>
<td>162758</td>
</tr>
<tr>
<td>Ski length (Recommendation)</td>
<td>under 127cm</td>
<td>127cm and longer</td>
</tr>
<tr>
<td>Boot sole length</td>
<td>220-300mm</td>
<td>240-325mm</td>
</tr>
<tr>
<td>Mondo size</td>
<td>17.0-25.5</td>
<td>19.5-27.5</td>
</tr>
</tbody>
</table>

2. Positioning the Drill Template
Open the clamping jaws (2) by rotating the clamping handles (1) and then place the template on the ski. Align the boot midsole indicator (3) for the appropriate base model with the midsole mounting mark on the ski. Be sure the template is evenly seated against the ski’s top surface. Release clamping handles.
Note: Keep in mind that some ski manufacturers do not use the center of boot sole location method. Always follow the ski manufacturer's instructions.

3. Drilling the holes
If not otherwise specified by the ski manufacturer use for all bases a 4.1 Ø x 9.0 mm drill bit for skis 140 cm and longer. For skis shorter than 140 cm use a 4.1 Ø x 7.0 mm drill bit.

Drill through the appropriate bushings:

<table>
<thead>
<tr>
<th>Model</th>
<th>Color of indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Railflex Base II</td>
<td>silver</td>
</tr>
<tr>
<td>Railflex Lite Base</td>
<td>black</td>
</tr>
</tbody>
</table>

After drilling place a drop of TYROLIA glue into the holes. It lubricates the screws and seals the holes (pict 30).

4. Mounting
RAILFLEX BASE II
Place the front section of the RAILFLEX BASE II over the holes and tighten the screws. Place the rear section over the holes and tighten the screws (pict 31).

Cover the RAILFLEX BASE II with the appropriate Covers (pict 32).

RAILFLEX System II
Mounting of the Railflex System II
Make sure that the boot is satisfying the international standards and has no functional damage. Hook the brake into the heel housing as shown in pict 33.
Determine the boot sole length with the TYROLIA Rental boot caliper art. nr. 162 617 (pict 33).

Connect the toe and heel with the Railflexband at the closest sole length mark corresponding to the measured boot sole length (pict 34).

Slide the binding on the Railflexbase from the rear until the mark on the band cover is aligned with the selected mark on the center piece (+15/0/-15).
Make sure that all components of the binding are engaged with the base.
Then fix the binding position by tightening the screw in the center piece (pict 35).
RAILFLEX System II - DEMO

Hook the brake into the heel housing as shown in pict 36. Connect the toe with the front of the Railflex Demo Band by snapping the metal pins of the toe in the band. Connect the heel with the back of the Railflex Demo Band by snapping the metal pins of the heel in the band (pict 36).

Make sure that all components of the binding are engaged with the base. Then fix the binding position by tightening the screw in the center piece located under the adjustment lever (+15/0/-15) (pict 38).

Determine the boot sole length with the TYROLIA Rental Boot caliper (pict 39).

Slide the binding on the Railflex base from the rear until the mark on the band cover is aligned with the selected mark on the center piece (pict 37).
Lift the locking lever of the binding, located in the center piece and turn it 45° counterclockwise to adjust the sole length. Slide toe and heel to the single code position visible on the Railflex Demo Band. Lock the system by turning the locking lever to its original position (pict 40).

RAILFLEX LITE BASE
Place the front section of the RAILFLEX LITE BASE over the holes and tighten the screws. Repeat the same procedure with the rear section of the base (pict 41).

Mounting of the RAILFLEX LITE System
Make sure that the boot is satisfying the international standards and has no functional damage. Determine the boot sole length with the TYROLIA Rental boot caliper art. nr. 162 617 (pict 42).

Hook the brake into the heel housing as shown in pict 42.

Connect the toe and heel with the Railflexband at the closest sole length mark corresponding to the measured boot sole length (pict 43).

Slide the binding on the Railflexbase from the rear until the mark on the band cover is aligned with the center mark. The feature BOOT CENTER ADJUSTMENT (+15/0/-15) is only available if a RAILFLEX Lite binding is used in combination with the Railflex Lite base. At the integrated version this feature is not available.

Make sure that all components of the binding are engaged with the base.

Then fix the binding position by tightening the screw in the center piece (pict 44).
5. Forward pressure

**Railflex System II**

Place the boot in the binding and close it. The indicating pointer should rest within the scribed area (8). If not lift the tooth lock with a screwdriver, adjust the forward pressure and lock the tooth lock again. The adjustment range is ± 4 mm, the last position to the front and the rear is reached if the indicating pointer (1) or (2) is aligned with the rear end of the steel base plate (3) (see pict 45).

*Note:* Always remove the boot before opening the toothed lock. Check the forward pressure again.

**Railflex Lite System**

Place the boot in the binding and close it. The indicating pointer should rest within the scribed area (Nr. 1). If not, lift the tooth lock with a screwdriver, adjust the forward pressure and lock the tooth lock again. The adjustment range is ± 4 mm (see pict 46).

*Note:* Always remove the boot before opening the toothed lock. Check the forward pressure again and if necessary repeat this procedure.

6. Adjustment

**Boot Center Adjustment:**
Depending on the position selected the skiing behavior of the system is different (see below).

1. **Moderate Speed + 15mm**
   - The center of the body is shifted to the front.
   - The ski reacts earlier and can be controlled easily. Good for skiers preferring moderate speeds.

2. **All-around 0mm**
   - Neutral adjustment for optimal all around-performance.
   - For every skier!

3. **Experts - 15mm**
   - By shifting the center of the body backwards, the ski is more stable.
   - Better speed at the end of the run. For experts and terrain skiers.
7. Adjustment of the release values

The release values at toe and heel should be determined by height and body weight (ISO/ASTM) method. Set the binding accordingly with the adjustment screws. We recommend the use of a calibrated testing device and that you keep a written record of whether the system passes or fails (requirement in the US).

Note: Release/Retention settings above a release moment of 100 NM at the toe and 400 NM at the heel are higher than the international standards recommend and are used solely at the skier’s own risk!

8. Function Check

Check the function of the heel. Make sure that the boot does not catch on the heel during entry and exit.

Check the brake function by pressing down the brake treadle (1) by hand. The brake arms (2) must open to the braking position when the brake treadle is released (see pict 47 and 48).

Check the elasticity and retention of the toe by pushing the boot inward and outward. The binding must recenter the boot easily and quickly from a 15 mm lateral displacement. (RFL 7, RFL 4.5 - 10 mm).

9. Final Check

• Is the proper mounting point selected?
• Functional brake test passed?
• Are all screws fastened tightly?
• Is the forward pressure properly adjusted?
• Are the release values of toe and heel properly determined and set?
• Is the Instruction for use booklet ready to be handed over to the customer?
TYROLIA CARVE PLATES 2006/07

CARVE PLATE 13 SLR
- Height 13 mm
- Boot length 261 - 351 mm
- SHOCK ABSORBER
- Two-piece FLEXSYSTEM supports FREEFLEX
- Increased torsional stability, control, and edge grip
- Oblong holes maintain ski flexibility
- SUPER LIGHT

CARVE PLATE 9 SLR
- Height 9 mm
- Boot length 261 - 341 mm
- Two-piece FLEXSYSTEM supports FREEFLEX
- Increased torsional stability, control, and edge grip
- SUPER LIGHT

JUNIOR RACING PLATE
- Height 14 mm
- Boot length 251 - 332 mm
- SHOCK ABSORBER
- Two-piece FLEXSYSTEM supports FREEFLEX
- Increased torsional stability, control, and edge grip
- Oblong holes maintain ski flexibility
- SUPER LIGHT
1. General
For proper mounting use drill template 92 W. The compatible binding-plate combinations can be found in the compatibility chart. All TYROLIA CARVE Plates can be used for skis 140 cm and longer. If mounted on skis shorter 140 cm the screws have to be replaced by shorter ones, see screw chart on page 59. For mounting MOJO 7, SL 75 ABS, SL 70, SL 70 AC, SP 75 ABS or SR 70 on TYROLIA CARVE Plates you have to replace the pre-mounted screws by screws with 8 mm penetration depth. Only with these screws can we guarantee the right pullout strength (see page 34).

2. Adjusting the Drill Template 92 W
Unlock the adjustment lever (1) by rotating it counter clockwise and push the template together as far as possible (23 cm). Fix the position by rotating the adjustment lever (1) clockwise until it stops (see template 92 W on page 14).

3. Positioning the Drill Template
Open the jaws (4) of the template by rotating the handles (5) and place it on the ski with the boot midpoint indicator aligned with the mounting mark of the ski. For ski boot tip mounting align the corresponding sole length mark on the sticker (pict 49) with the boot tip mounting mark on the ski.

Important!
When mounting Rental bindings the boot midpoint indicator should be behind the mounting mark, in accordance with the enclosed table (page 35). For older drill templates stickers can be ordered from your local TYROLIA distributor:
Sticker Boot tip – art. nr. 159 03 83.

4. Drilling the holes
If not otherwise specified by the ski manufacturer, use a 4.1 Ø x 9.0 mm drill bit for skis 140 cm and longer. For ski shorter than 140 cm use a 4.1 Ø x 7.0 mm drill bit.

Drill the holes using the appropriate TYROLIA drill bit. After drilling, drop some TYROLIA glue into the clean holes. This lubricates the screws and seals the hole.

5. Mounting
Place the front part of the plate over the holes and fasten the screws.
Then place the back part over the holes and fasten the screws.
Determine the boot sole length with the TYROLIA Rental boot caliper and place the binding on the Carve Plate corresponding with the appropriate printed length markings.
Mount the binding in accordance with the procedures in the Technical Manual.

For ski boot tip oriented mounting only
For mounting MOJO 7, SL 70, SL 70 ABS, SL 70 AC, SR 70 and SP 75 ABS on TYROLIA CARVE Plates or on skis, 140 cm and longer, replace the premounted screws by screws with 8 mm penetration depth. Only with these screws can we guarantee the right pullout strength (see table).
## BINDING-PLATE COORDINATION
### LINE 2006/07

### BINDING

<table>
<thead>
<tr>
<th>BINDING</th>
<th>CARVE PLATE 13 SLR</th>
<th>CARVE PLATE 9 SLR</th>
<th>JUNIOR RACE PLATE</th>
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<td>SR 45</td>
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</tbody>
</table>

**NOTE:**
If you use drill template SP 2003 W and SR 2003 W no displacement of the boot midpoint indicator is necessary!

### STAND HEIGHT

#### CARVE PLATE 13 SLR
- 13 mm
- 261-351
- SL - 363

#### CARVE PLATE 9 SLR
- 9 mm
- 261-341
- SL - 353

#### JUNIOR RACE PLATE
- 14 mm
- 251-332
- SL - 334

**... non compatible**

#### Displacement of the boot midpoint indicator to the rear, for template 92 W.

<table>
<thead>
<tr>
<th>Binding</th>
<th>Displacement</th>
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<td>SP 130 ABS DEMO AERO</td>
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<td>SP 120 ABS DEMO</td>
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<td>SP 100 ABS, SR 70 (q-R)</td>
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<tr>
<td>SR 100, SR 70 (i-J)</td>
<td>20 mm</td>
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<td>SP 90 ABS</td>
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<tr>
<td>SP 75 ABS</td>
<td>30 mm</td>
</tr>
</tbody>
</table>
Mounting TYROLIA bindings on raised platforms:

- Replacing the POWER BRAKE is not necessary when you mount TYROLIA bindings with the TYROLIA CARVE PLATE 13 SLR or CARVE PLATE 9 SLR on skis which do not have integrated platforms.
- The TYROLIA DRAGON BRAKE has extended brake arms and increased braking power. Unscrew and remove both front heel screws and pull the POWER BRAKE off the heel (see pict 50).

Then slide on the DRAGON BRAKE (see pict 51) and screw it on.

**CAUTION:** If you use TYROLIA bindings on plates from other manufacturers, check the TYROLIA Brake Matrix to see if the desired combination of ski-plate-binding is possible.

Follow the procedure below:

1. Add the weight of the components you want to mount (ski + plate + binding).
2. Add the thickness of the components you want to mount (ski + plate + binding).
3. Using the list below, determine which TYROLIA brakes are standard on the bindings delivered.
4. Find the value on the vertical axis which corresponds to the sum of the addition for the stand height.
5. Follow the horizontal axis on the matrix to the right until you find the value which corresponds to the total weight on the horizontal axis.
6. If the point of intersection of the weight and stand height lies below the respective curve, the brake will function properly.
7. If the point of intersection lies above the curve for the DRAGON BRAKE, using this combination of ski + binding + plate is not recommended. In this case, you have the following possibilities to come within the permitted range:
   a) Reduce the total thickness through:
      - a thinner plate,
      - a TYROLIA binding with less stand height (see page 8 and 10).
   b) Reduce the total weight to
      - a lighter plate, e. g. a TYROLIA CARVE PLATE 9 SLR
      - a TYROLIA binding with less weight,
      - a lighter ski.
   c) Use a combination of a) + b).
<table>
<thead>
<tr>
<th>Ski width</th>
<th>Art. Nr.</th>
<th>Brake</th>
<th>Picture</th>
<th>Model 2006/07</th>
<th>Model 2005/06</th>
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<tbody>
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<td>up to 74 mm</td>
<td>162 399</td>
<td>SL Kid Brake 74</td>
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Performance, for a rental binding, is not only what happens on the hill. A key measure of a product’s quality is the ease with which a system can be adjusted and maintained throughout the course of many seasons.

The TYROLIA’s mechanic-friendly rental design features:

• Easy mounting: This means fewer mistakes and reduced set-up time.
• Easy pre-season testing, low drop-out rate. The automatic sole lug design and the precise centering of the toe pincer system mean: fewer correction factors will be needed and less time spent testing.
• The SINGLE CODE system gives you a super fast option for binding-to-boot adjustment: set the heel length using the special sole length scale. Forward pressure will be right on, first time, every time.
• All models have automatic lug height adjustment which accommodate standard differences in boot sole-height.
• Easy, hand-levered “ONE TOUCH”- set up. One tool adjustment, easy to turn adjustment screw, “easy-in” boot feature.
• Almost maintenance-free, easy to change the AFD, clean and lubricate the heel track.

TYROLIA made the commitment to offer a comprehensive product and service program.

The TYROLIA-Rental Bindings

No single rental binding can ever fulfill all the needs of all types of shops. We therefore offer the following line up of rental/demo models.

SYMPRO:

| SP 130 ABS DEMO AERO | SP 120 ABS | SP 100 ABS |

The bindings that help your high performance ski set-up:

• Handlever-adjusted heel (60 mm) and toe (64 mm).
• 7-toe positions.
• DIN-ranges from 2.5 up to 13 that accommodate even high level skiers.
• Short, lightweight heel track, despite wide adjustment range.
• SINGLE CODE: “A-6” for ski boots from 263-391 mm sole length.
• Replaceable brake
• Diagonal toe.
• Well-known brand that provides confidence for the skier.

SYMPRO-SYMRENT-SYSTEM 06/07

SYMPRO-SYMRENT-AERO

SP 90 ABS
SP 75 ABS

• Optimal for Carving skis, minimized deviation between ski and boot mounting point.

A child and junior model, super convenient, “parent-free” operation.

• Automatic toe and heel pieces accept child and adult boot sole dimensions, giving you full utilization of your child/junior ski inventory.
• SINGLE CODE “a–w/F” for ski boots from 191-287 mm sole length.
• „ONE TOUCH“ hand lever adjustment for toe and heel.
• Replaceable brake.
• Diagonal toe.
• For ski lengths shorter than 140 cm.
• DIN range 0.75 up to 4.5.

SYMRENT:

| SR 100 |

A technically proven workhorse for the discerning skier who rents.

• Retail cosmetics enhance the value of the binding to the skier.
• DIN range of 2.5 up to 10.
• Diagonal toe.
• Large 84 mm heel adjustment range.
• SINGLE CODE “A-V”.
• Automatic toe and heel height adjustment.
• “ONE TOUCH”- Hand lever adjustment for the heel.
• POWER BRAKE - replaceable

SR 70

The lightweight junior binding with features rental operators want most.
• Latest toe and heel construction.
• SINGLE CODE
  2 heel guides: “i–J” (227-303 mm) standard and “q–R” (259-335 mm) with spare part 162 536.
  Kids’ boots in lower case letters, adult boots in upper case letters.
• Automatic toe and heel height for both “children: C” and “adult: A” boot standards.
• POWER BRAKE - replaceable
• Wide DIN range: 2–7.
• “ONE TOUCH”- Hand lever adjustment for the heel.

SR 45

A child and junior model, super convenient, “parent-free” operation.
• Automatic toe and heel pieces accept child and adult boot sole dimensions, giving you full utilization of your child/junior ski inventory.
• SINGLE CODE
  “b–o” (199-255 mm) standard, or “j–w/F” (231-287 mm) with spare part: 162 538.
• “ONE TOUCH”- Hand lever adjustment of the heel.
• Replaceable brake.
• Easy to open, easy to close.
• For ski lengths shorter than 140 cm.
• DIN range 0.75 up to 4.5.
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* OT … One Touch
Preparing and Checking Rental Systems

Customers usually don’t treat rental equipment as gently and carefully as they would handle their private property.

In order to keep your rental fleet as functional and appealing as possible, a systematic maintenance program is a must.

The best results are obtained with an ongoing program that constantly checks boots, bindings and skis.

To keep the equipment in good condition while minimizing liability we recommend the following program (this is a requirement in the U.S.).

In order to produce a truly efficient rental inventory some pre-season setup is required.

SINGLE CODING

This enables a quick binding to boot adjustment even during the rush hours of rental business.

TYROLIA offers self adhesive color stickers (art. nr.: 162 561) with the SINGLE CODE to be applied before season. You simply check the boot’s SINGLE CODE and adjust the binding accordingly.

In order to gain the efficiencies of SR, all you need to do is follow our simple procedure.

1. Mount all bindings according to the TYROLIA SR procedures. Pick a mounted sample binding of each model.
2. Place a boot of each size in the binding and adjust forward pressure until correct.
3. Open the heel and remove boot.
4. Record the SINGLE CODE from the track on the side of the heel housing. (The boot must not be in the binding when you read the code.)
5. Check each code again before marking all boots of this size with their SINGLE CODE (pict 53)!

For this procedure the TYROLIA Rental Boot Indicator (art. nr. 162 617) can be used.

Note: Beginning with line 2003/04 the TYROLIA SINGLE CODES differ 1 mm. To make sure that there is a clear relation to the sole length column in the release/retention chart.

Rental Inspection Summary

Since it is impractical to perform a full inspection each time a system is rented, a routine of pre-season and in season inspections has been developed to verify release indicator accuracy, confirm correct equipment function, and assure proper assembly and adjustment procedures by the rental shop staff.

Fully implemented, the procedures that follow provide rental shop customers a standard of care equivalent to that provided retail shop customers under current ISO and ASTM standards. The program is based on standards: ISO 13993 and ASTM F1064.

Preseason Inspection

Preseason inspections are performed on components of the release system: bindings and boots. All rental bindings, new and used, are visually inspected, and then tested using specially selected Reference Boots. Bindings that fail go through a troubleshooting procedure to identify and correct the deviation or malfunction. If this procedure does not correct the problem, the binding is removed from inventory. All rental boots, new and used, are visually inspected for damage, wear, contamination, broken or missing parts, or inferior materials at contact points with the binding.

In addition, one boot per “cell” is tested for boots that are new to the rental inventory. A cell is all boots of the same make, model, age, and shell size. A random selection of 5% of all boots, previously accepted into inventory, is also tested. Tests are performed with a test device and a pair of specially selected reference bindings. If a boot fails, all boots from that cell are then tested. Boots that fail and cannot be repaired are removed from inventory.

In season Inspection

In season inspections are performed on complete rental systems to ensure that the equipment is adjusted appropriately and continues to function correctly. Typically 5% of the rental inventory is tested during each two weeks sampling period. The random sample is equally divided between equipment that is available for rental and equipment that has just been rented. The equipment in the “as rented” category is from real skiers in the condition in which it is either dispatched or returned, while the “available for rental” equipment may be set up for fictitious skiers. Only single skis, not pairs, are tested, and testing at the toe is only required in one direction. A count is maintained of
test results which exceed allowable limits. The magnitude and frequency of these deviations determines the frequency of future inspections. Shops which fail an inspection must sample daily until the source of the problem is found and corrected. Then, as inspection results improve, the frequency of sampling and inspection is relaxed.

**Inspection Procedures**

**Important Terms**

**Correction Factor**
The value that must be added or subtracted from the initial visual indicator setting to bring the result within the Inspection Tolerance (or Inspection Range).

**Directions of Release**
Unless otherwise specified (see In season Inspection), the directions of release to be tested are forward lean and clockwise and counter clockwise in twist.

**Test Device**
A device which meets ISO standard 11110 or ASTM standard F1061 and has been checked and maintained in the manner specified by the device manufacturer.

**Test Result or Release Torque**
The middle quantitative value of three tests made in the same direction.

**Preseason Test**

**Reference Boot Selection**
The Reference Boot is a boot of a designated sole length which is otherwise typical of the boot inventory. Use the procedure below if the boot inventory includes several models and a representative boot can not easily be identified.

1. Select five single boots with sole lengths as specified in Table [A] for the binding type to be tested: adult, junior, or child.
2. Clean all five boots with a mild detergent and water.
3. Adjust a rental binding to the release indicator setting specified in Table [A] for the binding type.
4. Fit the binding to the boot and determine the Release Torque in all three directions of release (forward lean and both directions in twist-three releases in each direction).
5. Average the Release Torque for CW (clockwise) and CCW (counter clockwise) twist release.
6. Reject and replace any boot with a CW to CCW difference of more than 6 Nm for adult boots or 4 Nm when testing child boot types.
7. Rank the five twist results and select, as the Reference Boot for twist, the middle boot.
8. Rank the five forward lean results and select, as the Reference Boot for forward lean, the middle boot.

**Preseason Binding Inspection**
The procedure that follows is an integral part of pre-season maintenance. It is also a good way to determine if maintenance and which units have outlived their usefulness and must be removed from inventory.

1. Clean areas of the bindings that contact the boot and perform all preseason binding maintenance.
2. Visually or manually check:
   a.) AFD condition.
   b.) Brakes function.
   c.) Release indicator readability and travel.
   d.) Screw tightness.
3. Adjust each binding with the reference boot, then adjust the release value indicators to the specified value found in Chart A.
4. Check that the heel track and toe track Single Code agree with the sole length Single Code of the reference boot.
5. With the Reference Boot in the binding, verify elastic travel of the toe piece by striking the boot toe with a mallet or dead hammer and checking that the toe piece returns the boot quickly and completely to center.
6. Verify elastic travel of the heel piece by lifting the boot while depressing the heel piece cocking lever and checking that the heel piece returns the boot quickly and completely to the latched position.
7. Manually release the binding 3 times in each direction.
8. Lubricate all boot/binding interfaces with a mild liquid detergent and water solution.
9. With the Ski Binding Test Device determine the Release Torque for each direction of release (forward lean and both directions in twist).
10. Record “PASS” in the bindings maintenance record if Test Results are within the Inspection Range provided in Table [A].
11. Set the ski aside if the Test result in any directions of release is outside the Inspection Range in Table [A].
12. Follow Troubleshooting Procedure on page 55/56 for units which have been set aside and retest if changes in the unit’s condition or adjustment are made.
13. Record “FAIL” in the binding’s maintenance record if, after troubleshooting, test results in any direction of release are outside the In-Use Range. Replace the “failed” unit and retest before returning the ski to service.
14. If after troubleshooting, Test Results are outside the Inspection Range but within the In-Use Range, apply a Correction Factor to the unit and note the Correction Factor for that unit in the binding’s maintenance record.
15. If many bindings fail, check the test device and re-inspect the Reference Boot. If necessary, select another boot and retest the bindings.

Preseason Boot Preparation
The procedure that follows is an integral part of preseason maintenance.
1. Clean all boots with a mild detergent and water, and repair or replace damaged or missing parts.
2. Visually check:
   a.) Conformance with ISO and other applicable standards - ISO 5355. If the boot contacts the binding, brake, or AFD in areas other than the designated contact points, it may be incompatible with the binding.
   b.) Boot material. If the sole at the contact points with the binding or AFD can be scratched with a finger nail, the boot may be of inferior quality and incompatible with the binding.
   c.) Boot sole condition. If the boot sole is damaged, worn, or contaminated at contact points with the binding or AFD in a manner which cannot be corrected, the boot may be incompatible with the binding. "Verify boot sole dimensions" on page 53.
   d.) Brake compatibility with sole.
   e.) Rubber and/or metal sole protectors. If such materials contact the binding or AFD the boot may be incompatible with the binding.
   f.) Mold flashings. Flashing which can be seen or felt at contact points with the binding, brake, or AFD must be carefully removed.
3. Remove from inventory all boots that have failed the visual check.

Preseason Boot Sampling
Although sampling eliminates the need to test every boot before the season starts, the sample chosen must be representative of the inventory.
1. For boots that are new to inventory or have never been inspected, take a single boot from each cell (a cell is all boots of the same make, model, year, and shell size).
2. For used boots, take a 5% (but not less than 16 or more than 80) random sample of the entire inventory, see Table [B]. Make sure that there is at least one boot from each cell in the sample.

Preseason Boot Inspection
The procedure that follows helps to assure boot/binding compatibility and boot interchangeability.

### Table [A] Preseason Binding Inspection

<table>
<thead>
<tr>
<th>Skier Code</th>
<th>Binding Type</th>
<th>Sole length mm</th>
<th>Release Indicator Setting</th>
<th>Reference Torque Twist Nm</th>
<th>Reference Torque Forward Nm</th>
<th>Reference Release Range Nm</th>
<th>Reference Twist Range Nm</th>
<th>Test Result Range Nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>F</td>
<td>Children</td>
<td>270</td>
<td>2.5</td>
<td>25 Nm</td>
<td>94 Nm</td>
<td>21–29 Nm</td>
<td>80–108 Nm</td>
<td>17.5–33 Nm</td>
</tr>
<tr>
<td>J</td>
<td>Junior</td>
<td>306</td>
<td>4.5</td>
<td>45 Nm</td>
<td>175 Nm</td>
<td>38–52 Nm</td>
<td>149–201 Nm</td>
<td>31–59 Nm</td>
</tr>
<tr>
<td>L</td>
<td>Adult</td>
<td>327</td>
<td>6.0</td>
<td>60 Nm</td>
<td>239 Nm</td>
<td>51–69 Nm</td>
<td>203–275 Nm</td>
<td>42–78 Nm</td>
</tr>
</tbody>
</table>

Note: when using Table [A], in the Boot Inspection procedures that follow, the Sole Length and release Indicator Setting columns should be ignored.

1. Randomly select a pair of bindings that have passed the preseason inspection from each binding type; adult, junior, child.
2. Lubricate all boot/binding contact points with a mild liquid detergent.
3. Without regard to whether the boot is new or used, sort the sample by sole type and length according to the 20 mm Sole Length Categories defined by the Release/Retention Adjustment Chart.
4. In each Sole Length Category rank the boots by sole length and select the middle boot.
5. In each Sole Length Category fit the appropriate reference bindings to this “typical” boot and adjust the two bindings to release as close as practical to the Reference Torque in Table [A]. Use the Reference Torque corresponding to Skier Code [L] for the Adult binding, [J] for Junior binding, and [E] for the Child binding.
6. Rinse the lubricant from one binding and mark it “clean”. Mark the other “lubricated”.
7. Test each boot in the Sole Length Category with the clean Reference Binding and then the lubricated Reference Binding in both twist and forward lean (only one direction in twist is required for the clean binding).
8. Set aside any boots for which the lubricated Test Result is more than 20% less than the clean Test Result in the same direction of release or the lubricated Test Result in any
direction of release is outside of the Inspection Range provided in Table [A] for Skier Code (L, J, or F).

9. Repeat the Visual check on all boots that have been set aside, correct any defects noted, and retest. Remove from inventory boots that fail the retest.

10. Check all other boots from the same cell (make, model, year, and shell size) as those that failed.

**Note:** On completion of the preseason inspection, clean the liquid detergent from equipment and lubricate the binding before returning it to service.

### In season Sampling and Inspection

The In season Inspection is a test of complete systems and all the procedures used by the rental staff to assemble and adjust the system. The program uses random samples of rental inventory taken at routine intervals. Any sampling program that gives every unit of inventory the same chance as every other of being picked is valid.

#### Sample Frequency

Random sampling is conducted throughout the entire season. Frequency is as follows:

1. After 7 days of operation.
2. If the sample passes the next sampling is taken after another 7 days operation.
3. If two consecutive samples pass, sampling frequency is increased to 14 days.
4. If a sample fails at any time, daily sampling is instituted until two consecutive samples pass, at which point weekly sampling resumes.

#### Sample Size

Sample size is 5% of inventory but not less than 16 nor more than 80 units as noted in Table [B]. Sample size is based on average daily output. If rental output drops below 50% of capacity over the sampling period, the sample size can be reduced proportionately.

### In season Inspection

1. Take a random sample of the rental inventory as determined by Table [B]. Take half the sample from inventory as it is either rented or returned and the remainder from inventory available for rental.
2. The returned samples are tested with the last customer’s data, the other samples adjust to randomly selected skier data. Consider already applied Correction Factors.
3. Wipe the boot clean and cycle the boot/binding systems at least once in each direction.
4. Test sample units in Twist (one direction only) and Forward Lean.
5. Compare the Test Results with the Inspection Range for the appropriate Skier Code, see ISO 11088 Release/Retention Adjustment Chart (page 65).
6. If the results are within the Inspection Range, one value above to one value below the reference value, the unit passes.
7. If the results are outside Inspection Range but within the In-Use Range, two values above to two values below the reference value, count the unit as a Class I Deviation.
8. If the results are outside the In-Use Range, count the unit as a Class II Deviation.
9. Check elastic travel and visually inspect the ski brake function, interface areas between boot and binding, including AFD, lug height adjustment (if appropriate), and forward pressure. Count any deficiencies as Class I Deviations.
10. If more than the maximum number of Class I Deviations given in Table [B] are found in the sample, or a single Class II Deviation is detected the sample fails and daily sampling must be conducted until the problem which led to the failed sample is found and corrected. See page 55/56 for Troubleshooting Procedures following a Failed In season Inspection.
11. Record the date the sample was tested, the number of units tested the number of Class I and Class II Deviations, whether the sample passed or failed and any actions taken. There is not need to record the identity of units tested or actual Test Results.

<table>
<thead>
<tr>
<th>Inventory Size - pairs</th>
<th>50</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inventory Size - units (half pairs)</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>Sample Size - units (half pairs)</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>Max. Class 1 dev.</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Min.</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>700</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>600</td>
<td>800</td>
<td>1000</td>
<td>1200</td>
<td>1400</td>
<td>800</td>
<td>1600</td>
</tr>
<tr>
<td>20</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>70</td>
<td>80</td>
<td>16</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>12</td>
<td>14</td>
<td>16</td>
<td>16</td>
</tr>
</tbody>
</table>

**Table [B]**
Rental / Demo of Partial Systems

Many shops rent their customers partial ski equipment systems. Boots only if customers own their own skis with bindings, or skis and bindings if the customers own their own boots.

Additionally some shops utilize on-hill “demo days” as a means by which new products can be tested and evaluated by potential buyers.

In order to offer these skiers the same level of care as that afforded under the preceding procedures, the following guidelines should be used:

Rental of Skis / Binding only. Customer - owned boots

Although the retail test procedure may be applied in this case, it is often impractical to require actual system testing, especially in on-hill situations. In lieu of retail testing, the following procedures may be employed:

1. The ski/binding system to be rented or demoed should be tested “pre-season” using a boot which passes the TYROLIA Boot Visual Inspection.

2. The skier’s boot should also pass the Visual Inspection. If any questions exist regarding the quality of the boot, retail-type testing should be used.

3. The binding should be adjusted and its indicators set per current TYROLIA recommendation.

4. A full record noting appropriate customer information and binding settings should be kept by the individual or organization responsible for the adjustment.

5. After seven days of use, the ski/binding system should be tested according to the In-Season Inspection Procedures previously described.

Note: for US and Canada:

Signatures of both the customer and TYROLIA Certified Mechanic are required on all shop forms to qualify for the TYROLIA Dealer Indemnity Program.
Visual Inspection of Ski boots

In assembling a system for the skier, it is the responsibility of the shop to inspect and evaluate each equipment component. This inspection checklist should be followed before any mounting or adjusting is performed.

Ideally, they should be posted and used on the sales floor while the customer is still in the shop so that any deficiencies can be explained on the spot.

In retail, boots must pass all four points of this inspection before being accepted for use. In rental, this inspection is the first step in the “preseason boot test procedure”.

1. Check Type, Size and overall Conditions
   - Is the performance level appropriate for the skier?
   - Is the size correct (SINGLE CODE, boot sole length)?
   - Is all hardware intact and in working order?
   - Is the boot free of excessive or asymmetric wear?
   - Is the boot free of dirt or sole warp?

2. Check Material
   - Binding contact surfaces require a high quality hard, low-friction material. Check both lower shell and any separately attached inserts.
   - If you can easily scratch the surface of the sole with your fingernail, that’s an indication of extremely soft material that can degrade system performance.

3. Check Condition of Binding contact Surfaces, Toe and Heel
   - Any scratches or other roughness should not be deeper than 1 mm.
   - Check for any rocks, gum, or other foreign matter stuck to the sole.

4. Verify Boot sole Dimensions
   - Ski boots must meet international standard specifications.
   - Use the TYROLIA Boot Rental Indicator to determine whether wear is excessive. The most critical dimension for TYROLIA bindings is the front surface and height of the boot toe. Any boots worn past the indicated amounts should be repaired or not used with TYROLIA bindings.

The TYROLIA Rental Boot Indicator

art. nr. 162 617

This TYROLIA rental boot device is a multifunction-tool:

1. Sole length: Put the boot in the device and slide the toe stop up to the boot toe. Read sole length in the window, used for TYROLIA rental bindings: the SINGLE CODE (see pict 55).

2. Boot sole wear: The standardized interfaces (contact boot sole with sole lugs) are important in the functioning of TYROLIA bindings.

3. Boot toe bottom: Excessive wear is indicated if the lower edge of the front surface is at or above the bottom step on the appropriate child (C 2) or adult (A 2) post (see pict 56).

4. Boot toe ledge height: With the toe stop against the boot toe, the level of the toe ledge should be at or above the top of the appropriate post, “Child” (C 1) or “Adult” (A 1) (see pict 56). Replace toe pads if worn.
5. Heel height and wear: Check this boot standard with the same procedure used for the toe. The heel posts (A 3) + (C 3) are located at the rear of the device (see pict 57).

6. The marks “A/C” help to select a “Child” boot from an “Adult” by indicating the standardized sole width.

Note:
Any boot which passes points 3, 4 and 5, as well as conforming to the Visual Inspection Checklist, may be accepted for use with TYROLIA bindings. Boots which fail any point should be repaired or replaced.

These checks apply only to boots used with TYROLIA bindings. Consult other binding manufacturers for their used boot specifications.

Clean vs. Lubricated Ski boot Test

This test is designed to determine the influence of a given boot on the release characteristic of a binding. It should be performed on boots not meeting all the points of the TYROLIA boot visual inspection criteria, or if measured release values fall outside the system “inspection” tolerance. It is seen as the “last chance” for a boot to qualify before getting eliminated from inventory.

1. Clean the boot(s) to be tested with soap and water. Allow to dry.

2. Select an appropriate TYROLIA “reference” binding that has displayed release values within the inspection tolerance on the TYROLIA Adjustment Chart. Clean the binding’s boot contact surfaces with soap and water and allow to dry.

3. Test the binding and boot in Twist and Forward Lean at a mid-scale indicator value (Only one direction of twist is required).

4. In a further test run lubricate all boot/binding contact areas with soapy water. Retest in Twist and Forward Lean.

5. Results of each lubricated test should be within 20% of the corresponding results when tested clean. Any boot which fails this test should not be used with a TYROLIA binding.
MAINTENANCE & SERVICE

Visual Inspection of Binding
(TYROLIA brand)

In assembling a system for the skier, it is the responsibility of the shop to inspect and evaluate each equipment component. This inspection checklist should be followed before any mounting or adjusting is performed.

Ideally, they should be posted and used on the sales floor while the customer is still in the shop so that any deficiencies can be explained on the spot.

Check Suitability

- Is the binding model appropriate for the skier’s ability?
- The binding must be compatible with the customer’s boot/ski.
- The skier’s release/retention setting should fall within the binding’s adjustment range. Additionally, we recommend that the skier’s setting not be closer than one number from the minimum or maximum settings on the binding in order to allow for future readjustment.
- Are the mounting screw lengths appropriate for the ski being used?

Check the Condition of Binding

- Are all parts present and in working order?
- Is the AFD surface smooth and secure? If not, it should be replaced.
- Are all mounting screws present or tight?
- Does the binding show signs of contamination?
- Has proper periodic lubrication been performed? Dried out or corroded bindings can function improperly.

Retail Testing

Completion and documentation of the following Retail Test Procedures is recommended for U.S.: required under the terms of the TYROLIA Dealer Indemnity Program.

These tests should be conducted any time work is performed on a ski/boot/binding system that may affect its release values. The procedure applies to all TYROLIA alpine bindings, new as well as used.

1. Follow TYROLIA procedures for inspection, mounting, adjustment, and maintenance as appropriate.
2. Confirm that toe and heel indicator values match those specified on the actual TYROLIA Adjustment Chart.
3. Using a calibrated testing device, according to its instructions for use, “exercise” the binding by releasing it at least once in each direction (clock-wise and counter clockwise at the toe, vertically at the heel). Then measure Twist and Forward Lean Torque Values. The middle quantitative value of 3 releases in each direction should be used as the test result.
4. Compare Twist and Forward Lean test results with the System Inspection Ranges on the actual TYROLIA Adjustment Chart.
5. If any test results fall outside the System Inspection Range, consult TYROLIA Troubleshooting Procedures which follow this section.
6. With testing complete, the TYROLIA Certified Mechanic must complete and sign the workshop ticket. Be sure the Final Indicator Settings are correctly shown there.

The workshop ticket should simply reflect that the system has “passed all tests” or that “all manufacturer’s procedures have been completed”.

Replacing the Brake

If the brake feels too hard or blocks during the hand test, if the brake arms are damaged, if the pedal is worn out or if a wider brake is necessary then the brake should be replaced immediately.

TYROLIA offers for almost each binding, different brakes with wider (WIDE and FAT brakes) or longer (DRAGON brake) brake arms. Refer to the brake overview on page 42 for brake and binding compatibility.

To change the brake, all you have to do is to unscrew the old brake and replace it with the proper brake previously selected for the binding. In order to fix the brake, tighten the screws.

On most Railflex and Railflex Lite bindings the brake is hooked into the heel housing and not fixed with screws. Slide the heel off from the rails and replace the brake (pict 58).

On Railflex Lite bindings the heel lever has to be opened and the brake pedal has to be in its top position to do this. (pict 59).
Replacing the heel glide inserts for most Railflex (RF 11, RF 10, RF 9 W) and all Railflex Lite heels

Use 162 801 for Railflex and 162 725 for Railflex Lite. Remove the center screw and slide the binding off. Separate the heel from the Railflex band and turn the heel around. Remove the inserts and replace them with new ones (pict 62).

Spare part-Indentification
Most of the replaceable parts have an article number (000 000) imprinted on the bottom. Reference this number when you order spare parts to prevent confusion.

Long & short screws
MOJO 7, SL 70 ABS, SL 70, SL 70 AC, SP 75 ABS and SR 70 are delivered with screws for ski lengths under 140 cm (penetration depth 6 mm). If they are mounted on longer skis, the screws have to be replaced with longer screws. (penetration depth 8 mm – see screw chart on page 34).

Tapping
TYROLIA recommends tapping the drilled binding holes of any ski before mounting. Of course, there is a never-ending discussion among the mechanics if this is really necessary. But the pros are convincing:
- smooth and easy mounting
- reduced risk of stripping a screw
- same momentum adjustment of the screwdriver regardless of the ski material
- increased mounting quality/precision
- fewer pull outs.

Template “Adapter”-Set
(art. nr. 162 569)
Compatible to all TYROLIA-Template.
Warning: Avoid dropping of the template. The clamping jaws could be damaged.
Racing (X)-Bindings

Certain binding models are produced by TYROLIA each year for the exclusive use of qualified competitors under the supervision of TYROLIA Technical Specialists. These bindings are not covered by either the TYROLIA Warranty or any Dealer Indemnity Program. We recommend you decline to service them, and warn against their use. DIN settings ≥10 do not satisfy the standard. Protection assertions are not applicable. Adjustments exceeding this range are made on one’s own risk.

Cleaning and Lubricating

Ski bindings need regular maintenance. Proper function is no longer assured if this procedure is not followed periodically.

• Please use only TYROLIA recommended lubrication:
  TYROLIA grease – 160 052
  TYROLIA service – grease-spray – 162 779
  Both have the same content, but the grease tube is for more precise lubrication and the spray is suited for spots which are hard to reach with the tube.

• Clean the surfaces with a dry rag or warm water and mild soap.

• Avoid any contact with aggressive solvents or degreasers!

• Don’t use cleansers!

• High pressure cleaning is not recommended. It might have the negative side effect of washing away the lubricating films.

Lubricating the Toe piece

AERO toes
• Lubricate the adjustment screw and the guides of the main spring in the housing with the TYROLIA service – grease spray.

All SYMPRO/SP toes
• In case of friction in the track system: Mark the toe position, open the SP hand lever and slide the toe piece off.

• Dry clean the track and the toe guide base gently using a plastic brush.

• Then lubricate the locking mechanism at both sides of the toe guide base.

• Lubricate also both sides of the track guide over the entire length.
Lubricating the Heel

All Rental bindings

- Mark heel position, open the hand lever and slide the heel off backwards. At the SR 100 and SR 70 the guide lock has to be opened with a screwdriver (pict 64) to get the binding off.

Lubricate

- the edge of the release cam under the heel lug as shown in pict 65.
- both sides of the heel track (inside) over the entire length.
- the bearings of the opened hand lever on both sides (pict 66).
- the guiding channel of the release setting adjustment screw.

After finishing the heel lubrication slide on the heel and lock it in its original position.

SL 45 and SR 45

Lubricate

- the contact areas between housing and the release cam on the frontside and the backside as shown in pict 67 and 68.
- both sides of the heel track (inside) over the entire length.
- the guiding channel of the release setting adjustment screw (pict 68).

After finishing the heel lubrication slide on the heel and lock it in its original position.

Not to be Lubricated

The locking element and the corresponding holes in the heel track should be cleaned but not lubricated.

This should prevent dirt accumulation in this area, which could interfere with the ease of handling.

Test your Drill Template

A worn or damaged drill template could create a lot of trouble. Please check your templates periodically:

1. Position the fully extended drill template on a discarded ski.
2. Turn the clamping lever to open the clamping jaws of the mounting template.
3. Position the template properly on the ski so that the boot center marking is aligned with the mounting point described on the ski.
4. Let go of the clamping lever. The template clamps automatically.
5. Drill all the holes.
6. Remove the mounting template and clean the ski.
7. Measure the holes with a slide gauge.
8. The distance of the screw holes to the edge of the ski must be equal for each pair of related holes. The deviation must not be more than 1 mm.
9. The mounting template must be discarded if greater deviations occur!

**Repair of damaged mounting holes or broken screws**

For repairing damaged holes, we suggest our special “Repair Set” – art. nr. 162 127.

It consists of a hollow drill bit and plastic inserts (pict 69).

You can extract broken screws too.

Remove the binding from the ski.

Drill with the hollow drill through the bushing of the appropriate drill template and drive in the plastic insert.

Mount the binding again (pict 70).

**Sealing old mounting holes**

For sealing old holes you can use wood-plugs or plastic plugs (art. nr. 160 857), if not otherwise specified by the ski manufacturer.
# Troubleshooting (Including Rental)

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Reason</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difficulty when stepping in</td>
<td>Non-standard boot sole</td>
<td>Test and select a new boot</td>
</tr>
<tr>
<td></td>
<td>Forward pressure too high</td>
<td>Readjust according to instructions</td>
</tr>
<tr>
<td></td>
<td>Brake jams</td>
<td>Clean &amp; lubricate; replace</td>
</tr>
<tr>
<td>Brake does not retract</td>
<td>Obstruction under the brake</td>
<td>Remove, clean, lubricate</td>
</tr>
<tr>
<td></td>
<td>Brake arm bent</td>
<td>Replace brake</td>
</tr>
<tr>
<td></td>
<td>Ski obstructs brake</td>
<td>Replace the standard brake with a wider brake, accordingly to the ski width.</td>
</tr>
<tr>
<td>Boot fails pre-season test</td>
<td>Low-quality boot material</td>
<td>Replace boot</td>
</tr>
<tr>
<td></td>
<td>Excessive wear or contamination</td>
<td>Clean, repair or replace boot</td>
</tr>
<tr>
<td></td>
<td>Reference binding worn</td>
<td>Recheck reference binding with a boot that has passed</td>
</tr>
<tr>
<td></td>
<td>Boot does not meet ISO 5355</td>
<td>Replace boot</td>
</tr>
<tr>
<td></td>
<td>Improper use of testing device</td>
<td>Check calibration and operating technique</td>
</tr>
<tr>
<td>Excessive in-season class 1 or class 2 deviations</td>
<td>Excessive boot sole wear or contamination</td>
<td>Clean, repair or replace boot</td>
</tr>
<tr>
<td></td>
<td>Inadequate binding service/lubrication</td>
<td>Conduct recommended maintenance every 15–20 days of use</td>
</tr>
<tr>
<td></td>
<td>Improper use of testing device</td>
<td>Check calibration and operating technique</td>
</tr>
<tr>
<td></td>
<td>Indicator correction factor needed</td>
<td>Test system according to pre-season testing. Define indicator correction factor for subsequent adjustments</td>
</tr>
<tr>
<td>SINGLE CODE on binding interfering SINGLE CODE on boot</td>
<td>Incorrect template adjustment used when mounting</td>
<td>Set template to proper length and remount heel</td>
</tr>
<tr>
<td></td>
<td>Incorrect track guide scale chosen for given mounting position</td>
<td>Choose binding according to given mounting position</td>
</tr>
<tr>
<td>Problem</td>
<td>Possible Reason</td>
<td>Solution</td>
</tr>
<tr>
<td>---------</td>
<td>----------------</td>
<td>----------</td>
</tr>
<tr>
<td>SYMPRO toe wobbles in this track</td>
<td>Toe locking lever not properly engaged in locking holes</td>
<td>Remove toe, clean track. Be sure toe piece locks into place</td>
</tr>
<tr>
<td>CYBER or FREE FLEX-drill pattern not fitting</td>
<td>Toe / equalizing bridge in wrong position</td>
<td>Dismount, place toe in correct position</td>
</tr>
<tr>
<td></td>
<td>Drill template not locked</td>
<td>Readjust, drill new holes</td>
</tr>
<tr>
<td>Heel slides backwards when customer steps in</td>
<td>Rear locking lever not fully closed or boot length exceeds adjustment range</td>
<td>Lever should fully engage locking teeth in slots on track or boot sole length exceeds binding range</td>
</tr>
<tr>
<td>Binding fails pre-season test: release values too high or too low</td>
<td>Reference boot contaminated or worn</td>
<td>Clean or replace boot as indicated by clean vs. lube test result</td>
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<tr>
<td></td>
<td>Forward pressure set incorrectly</td>
<td>Readjust to TYROLIA recommendations</td>
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<tr>
<td></td>
<td>Incorrect or off-center-mounting</td>
<td>Check the template. Remount using template correctly</td>
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<tr>
<td></td>
<td>Improper use of testing device</td>
<td>Check calibration and operating technique</td>
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<tr>
<td>Adult bootsole does not fit into Junior toe lug</td>
<td>Boot sole exceeds the standard tolerance</td>
<td>Clean AFD and boot sole, check standard tolerance, change boot</td>
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<tr>
<td>Diagonal or Railflex heel wobbles in the track</td>
<td>Heel glide inserts worn</td>
<td>Remove heel and replace plastic heel guides</td>
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# Workshop Tools & Aids

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<tr>
<th>Tool</th>
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<tr>
<td>Drill Template RAILFLEX &amp; RAILFLEX Lite</td>
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<td>Drill Template SP 2003 W (for models see page 13)</td>
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<td>Drill Template SR 2003 W (for models see page 13)</td>
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<td>Drill Template 94 W (for models see page 13)</td>
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<td>Drill Template 92 W (for models see page 13)</td>
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<td>Drill Template Adapter-Set (adapter for TYROLIA-Templates)</td>
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<td>Drill 4,1 Ø x 9 mm long</td>
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<td>Drill 3,5 Ø x 7 mm long</td>
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<td>Handy Ratchet incl. bits (162 575 + 162 576)</td>
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<td>Universal bit for Screwdriver 162 800 and electric drivers</td>
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<td>Drill bit for repair set</td>
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<td>Service-Grease-Spray (500 ml)</td>
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## SPARE PARTS-LINE 2006/07

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<th>Heel Glide Insert</th>
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Notes:
- AFD: ABS Brake Disc
- FREE FLEX PLUS: Cover
- ABS: Heel Glide Insert
- Toe Cover: Railflex band
## Screw Overview - Line 2006/07

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### Dimensions

- Model: 5.5 x 13.4
- Article: 160.016
- Ski: 5.5 x 18.5
- Article: 160.018
- Ski: 5.5 x 15.5
- Article: 160.038
- Ski: 5.5 x 20.5
- Article: 160.081
- Ski: 5.5 x 14.0
- Article: 162.219
- Ski: 5.5 x 21.3
- Article: 162.76
- Ski: 5.5 x 23.4
- Article: 162.191
- Ski: 5.5 x 27.5
- Article: 162.149
- Ski: 5.5 x 16.9
- Article: 162.438
- Ski: 5.5 x 29.0
- Article: 162.461
- Ski: 5.5 x 30.5
- Article: 162.777
- Ski: 5.5 x 11.4
- Article: 162.401
- Ski: 5.5 x 19.4
- Article: 162.498
- Ski: 5.5 x 24.0
- Article: 162.871
- Ski: 5.5 x 13.7
- Article: 162.780
- Ski: 5.5 x 12.8
- Article: 162.781
- Ski: 5.5 x 14.4
- Article: 162.783
- Ski: 5.5 x 12.1
- Article: 162.784
- Ski: 5.5 x 14.4
- Article: 162.786
- Ski: 5.5 x 14.4
- Article: 162.787
- Ski: 5.5 x 18.0
- Article: 162.788
- Ski: 5.5 x 10.1
### SYMPRO / SYMRENT

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* 4 Screws for Toe Track

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Ski ≥ 140 cm
Ski < 140 cm

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62 / SERVICE
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CLASSIFY YOURSELF

DETERMINING YOUR SKIER TYPE IS YOUR RESPONSIBILITY!

Your Skier Type, height, weight, age and boot sole length are used by the shop technician to determine the release/retention settings for your bindings. Consult these descriptions to select your classification. Be sure to provide accurate information. Errors increase your risk of injury.

Skiers not classified as Types I or III.

Skiers who designate themselves as Type I receive lower than average release/retention settings. This corresponds to an increased risk of inadvertent binding release in order to gain releasability in a fall. This type also applies to entry-level skiers uncertain of their classification.

Skiers who designate themselves as Type II receive average release/retention settings appropriate for most recreational skiing.

Skiers who designate themselves as Type III receive higher than average release/retention settings. This corresponds to decreased releasability in a fall in order to gain a decreased risk of inadvertent binding release. Type III settings should not be used by skiers of less than 22 kg/48 lbs.

If you are unsatisfied with the release/retention settings that result from your classification please mention this to your binding technician.
How to use the Release/Retention Adjustment Table:

1. Determine the Skier Code by locating the skier’s weight in the first column and the skier’s height in the second column. If the height and weight are not on the same line select the Skier Code closer to the top of the chart.

2 a. The Skier Code found in step 1 is for Type I skiers. For Type II skiers move down the chart toward the bottom one Skier Code. For Type III skiers move down two Skier Codes.

2 b. If the skier is age 50 or older or under 10 move up the chart one Skier Code toward the top. For skiers 13 kg/29 lbs and under, no further correction is required.

Issued in accordance to ASTM and ISO 11088. Note: for proper adjustment, please look up the annual technical manuals of the binding manufacturer. Use calibrated ski bindings test equipment!
3. Find the column that corresponds to the skier’s boot sole measurement in millimeters.
4. The value where the Skier Code and the boot sole measurement intersect is the initial indicator setting for the skier.

*If the intersection of the row and column falls in a blank box, do not move up or down the chart. Move sideways on the same row to the nearest box showing a visual indicator setting.*

5. This value should be recorded on the workshop form under Initial Indicator Settings.

**Mechanical System Testing**

1. Adjust the bindings toe and heel indicators to the Initial Indicator Setting.
2. Use a calibrated torque measuring device according to the instructions provided by the supplier.
3. Exercise that binding by release it at least once in all direction.
4. Three tests are required in each direction. The middle quantitative value of the three releases should be used as the test result.
5. Using the previously determined Skier Code slide across the chart to the column representing twist torque reference values.
6. If the test result is within one torque value above to one torque value below the reference value, it is in the Inspection Range. These results are acceptable and no further adjustment is necessary.
7. If the test result is within two torque values above to two torque values below the reference value, it is in the In-Use Range. The indicator value should be readjusted and the system retested so that it falls in the Inspection Range. Record the corrected indicator value in the box for final release/retention settings.
8. If the test result value falls out of the In-Use Range the system should be thoroughly inspected for the following:
   1. Correct forward pressure
   2. Correct Sole-hold down adjustment
   3. Worn or contaminated AFD’s
   4. Out of standard boot soles
   No work can be performed on the system until these problems are corrected.
9. Check the heel for forward lean the same way, determining the middle quantitative value of three vertical releases. Adjust if necessary.
10. Record final indicator settings on the workshop form in the area for final release/retention settings.

**Type I Skiers**
- Cautious skiing on smooth slopes of gentle to moderate pitch.
Skiers who designate themselves as Type I receive lower than average release/retention settings. This corresponds to an increased risk of inadvertent binding release in order to gain releasability in a fall. This type also applies to entry-level skiers uncertain of their classification.

**Type II Skiers**
- Skiers not classified as Type I or Type III.
Skiers who designate themselves as Type II receive average release/retention settings appropriate for most recreational skiing.

**Type III Skiers**
- Fast skiing on slopes of moderate to steep pitch.
Type III settings should not be used by skiers of less than 22 kg/48 lbs.
Skiers who designate themselves as Type III receive higher than average release/retention settings. This corresponds to decreased releasability in a fall in order to gain a decreased risk of inadvertent binding release.

**Note:**
If the skier reports release/retention problems see the chapter “trouble shooting release/retention problems”, page 72 in the manual.
Skiers who desire release/retention settings lower than Type I may designate themselves (I−). Type I− is inappropriate for skiers 17 kg/38 lbs or less.
Type I− Move up the table one skier code.
Skiers who desire release/retention settings higher than Type III may designate themselves (III+).
Type III+ -Move down the table three skier codes.
Skiers may select skier type designations that are different for twist and forward lean. In such a case, the selection shall be indicated by a slash separating twist and forward lean selections, in that order (for example, K/L, K for the toe and L for the heel.)
If the skier reports a release or retention problem:

- Re-inspect the equipment to make sure that all components are in good condition and function properly.
- Test the system to make sure that it is calibrated properly.
- Have the skier use the “Classify Yourself” materials to make certain that the correct Skier Type has been selected.

If component inspections and a calibration check do not reveal a problem the skier may be requesting discretionary settings.

Information for skiers requesting discretionary settings.

1. Your normal release/retention settings comply with ISO/ASTM standards. Although these guidelines may be inappropriate for some types of competitive skiing or competition training, they are believed to provide an effective compromise between the release and retention needs of most recreational skiers.

2. Adhering to these guidelines may help to reduce the risk of injuries resulting from improper release/retention setting selection. However, skiing involves inherent risks. Injury can result from simply falling down, impact with an object, or from many other actions. Many injuries are unrelated to the function of the release system. Furthermore, even a properly adjusted binding cannot protect the skier in all situations.

3. Difficulties with release or retention may be unrelated to release/retention settings and can result from your skiing style, the incompatibility of your boots and bindings, or wear, damage, or contamination of a component of the release system. Be sure to describe your circumstances to the shop technician and to authorize recommended inspections and repairs before proceeding.

4. If you have been dissatisfied with the release/retention settings that result from your normal skier classification, you may wish to consider changing your skier classification, Designating skier type classifications that are different for twist and forward lean, or request discretionary release/retention settings that are higher or lower than the normal range.

Lower settings correspond to an increase in the risk of inadvertent binding release in order to gain increased releasability in a fall.

Higher settings correspond to a decrease in releasability in a fall in order to gain a decreased risk of inadvertent binding release.

5. Although the shop technician may help you to record your choice on the appropriate form, the final decision on your release/retention settings is yours.
This section must be read, and thoroughly understood, prior to completion of TYROLIA’s Employee Training Documentation Form and viewing the 2006/07 TYROLIA Certification Video.

At TYROLIA we realize that the quality added to our products in your shop is every bit as important as the quality we build in at the factory. The TYROLIA Retailer Indemnity Program, which includes in-depth technical training, is a key element of maintaining consistent quality.

Technical Information
Procedures for installation, release/retention adjustment, testing, troubleshooting and record keeping should always be taken from the current season’s TYROLIA Technical Manual.

Employee Training
This manual provides a depth of information unprecedented in the industry, it is here to help you fulfill the shop’s responsibility to bring new employees to a basic level of competence. It also addresses our desire to provide information specific to selling, function checking, and maintaining TYROLIA products. Last but perhaps most important, we produced it to help you understand why TYROLIA represents the state of the art in bindings. We hope you will use it as part of a well planned and professional employee training program which goes far beyond properly installing bindings. Done well it will translate into consistent quality and the high level of satisfaction your customers deserve. Look at it as one of the first steps in your Total Quality Management program.

Note:
Hands on training is the best training – An ideal task that can be incorporated into the training is preseason testing. This will give your trainees hands on experience operating a testing device and adjusting ski/boot/binding systems. Other tasks, such as routine rental maintenance, can also be done during the training period.

Shop Requirements
Each retail location must have:

- A current TYROLIA Binding Indemnification Agreement on file with HEAD TYROLIA WINTERSPORTS INC., USA / HEAD TYROLIA SPORTS CANADA INC.
- At least one TYROLIA Certified Technician employed per location.
- The required equipment for installing and testing TYROLIA bindings. All Agreements and Certifications must be valid for the current season.

Required Service Shop Tools
This list is the bare minimum a shop can survive with.

- Tape Measure
- TYROLIA Templates
  - # 92 W (Blue)
  - # 94 W (Violet)
  - # SP 2003 W (Red)
  - # SR 2003 W (Yellow)
  - # RAILFLEX & RAILFLEX Lite (gray)
- Variable speed, reversible electric drill
- TYROLIA Step Drill Bits (or equivalent)
  - 4.1 Ø x 9 mm
  - 4.1 Ø x 7 mm
  - 3.5 Ø x 9 mm
  - 3.5 Ø x 7 mm
- Tap, Tap Brace and Tap Guide
- TYROLIA Pozidrive No. 3 screwdriver (or equivalent)
- TYROLIA Large slot screwdriver
- Current TYROLIA retention/release adjustment table
- Approved mechanical testing device
- Screw extractor
- Tap extractor
- Hole plugs, plastic & wood
- TYROLIA threaded plastic ski inserts
- Chisel
- Hammer

Creating an Informed Consumer
Customers, whether rental or retail, come to your shop with all levels of knowledge. The range extends from true experts who really know the sport and their equipment needs, to never-ever skiers who know they must rely totally on your expertise.

A key role played by a good shop, and a requirement in the US and Canada under the “TYROLIA Retailer Indemnity Program”, is providing information, guidance and instruction to all customers.
Specifically this means:

- Providing product and suitability information to help customers make an informed choice of which equipment models are right for them. The amount and type of advice given will naturally be different for each customer.
- The shop’s responsibility is to be sure that each product sold or serviced is appropriate for the needs of its user.
- The shop must provide accurate information about the nature of the sport, and what equipment can and cannot do. Inform customers that there are risks inherent in the sport of skiing that no binding can protect against. It is imperative that each customer be informed there are limitations to the protection their equipment can afford and that injuries can and do occur in the normal course of skiing.
- Under no circumstances should you make any warranties or assertions about the customers' safety on the hill. Speaking simply, no binding is “absolutely safe”. Well designed shop record forms address the disclosure and agreement subject very directly and professionally. Use them to your advantage by making sure customers read and understand the form before signing it.
- The following points must be explained to all customers (rental or retail) before they leave the shop with their equipment (consumer awareness checklist):
  - Go through your workshop ticket and fully explain each task that has been performed by the shop.
  - Explain how to use bindings and equipment. Let customers put on their boots and step in and out of the binding if need be.
  - Remind skiers to clean their boots and bindings each time before stepping in. Tell them that they should always walk through clean snow before entering the bindings.
  - Deliver the “Instructions For Use” booklet to retail customers. It is an important document and is essential for warranty service.
  - Advise the customers to return to your shop periodically for maintenance and a system inspection. The service interval is once each 15–20 days of skiing, or annually, whichever comes first. Failure to adhere to this service interval will void the TYROLIA Limited Warranty.
  - Recommend care in transport: heels closed, bindings covered.
  - Recommend care in storage: dry, moderate temperature, heels closed, boots not in bindings.
  - Explain that bindings and boots must be kept clean for optimal function.
  - Skiers should make a visual inspection of their system before each use, including the AFD pad which should be checked for wear, damage or loss. It is also wise to visually verify the release indicator value.

Note:

- The workshop ticket must be read, initialed and signed by the customer. If the customer is a minor, his or her signature should be obtained, along with that of the parent or guardian.

If a parent or guardian is not available, the equipment should only be released if the proper signatures have been obtained.
- Remember, the customer’s signature is required in two places under the terms of the TYROLIA Retailer Indemnity Program. In order to avoid misunderstandings with the customer, please inform them of this requirement when equipment is taken in for service.
- If the customer is not the end user, every attempt should be made to make certain all aspects of the system are explained to the user, and to obtain his/her signature on the workshop ticket.

About Testing

Testing is required for all TYROLIA retail and rental systems as specified in this manual. Many consumers view system testing as a valuable service provided by professional shops. They expect their equipment will be properly tested, and are willing to pay for it. On the other hand, some customers may be reluctant to accept any additional costs. They may be especially resistant to charges made by the shop for testing and inspections of equipment which is being serviced. Following are some communication techniques that have been found to be helpful:

- Post your shop’s testing policy. A clear statement, prominently displayed, will reassure customers that they’re all receiving the same treatment. Consider a text similar to the following: “Industry standards have defined shop testing procedures for your ski/boot/binding system. We’re proud to offer this service since it is in your best interest. While even the best ski equipment cannot eliminate all risks of injury, we strive to maximize your enjoyment of the sport by verifying the settings and function of your equipment. The extra time and expense of system testing will pay off for you in a better skiing experience.”

- Make your service shop a showplace. Place your testing bench in a prominent location. Many customers like to know what kind of work you’re doing for them. If you get a question, offer to let the skier watch.

- Proudly display diplomas and certificates received by your mechanics. Make their expertise known to your customers.

- Above all, don’t apologize for testing. It’s a valuable and necessary service well worth the cost.
About Testing Devices

ASTM and ISO have defined specifications for ski equipment system testing devices. Only those devices that meet these recognized performance standards should be used to test systems that include TYROLIA bindings. You should make it the responsibility of your testing device supplier to verify that their device fulfills all ASTM/ISO requirements.

Each device has its own unique features and some will fit your shop’s needs better than others. Therefore, we can’t recommend a single device as universally “the best”.

The following points, however, can be used as a guideline to getting the most out of your choice:

- Training is very important in the use of any device. Read the instructions thoroughly, and practice!
- To insure reproducibility from one technician to another a “Multiple Operator Reproducibility Test” should be performed by all users of the testing device. This simply requires that all technicians join in a “round robin” exercise where each tests the same system with the same test device. The goal is to verify that the testing techniques are the same and that all test results are comparable. Speak with your testing device supplier for the details on how to conduct this program.
- Beware of “black box” calculations that may be performed by some electronic testers, the calculations performed to arrive at an indicator value or determine an appropriate Torque Range could be based on old standards. Check the current TYROLIA Adjustment Chart for applicable values.
- Periodic calibration of these devices is important, and this information should be documented in your shop records.
- Most important, never blindly trust the values given by any test device. This is just one tool to use in your evaluation of a complete release/retention system.

Maintenance

Inform every customer of the simple fact that periodic maintenance is needed. If they don’t bring their gear back for regular function checks, it is unreasonable to expect it to work as designed. Studies have shown that binding systems which have not been properly maintained have serious injury rates very much higher than those which have.

Following this simple, logical guideline is the single most effective way to decrease serious injuries dramatically. Have the system serviced by a TYROLIA certified technician once each 15–20 days of skiing, or annually, whichever comes first.
Today’s equipment may help reduce certain hazards involved in the sport, but the risk of injury remains. The TYROLIA Retailer Indemnity Program is designed to help formalize service procedures and minimize the risks to both you and your customer.

Under the plan, TYROLIA will defend and indemnify the Authorized Retailer in bodily injury claims when certain conditions are met, including following all TYROLIA required procedures.

The program benefits are not without limits, indemnification is not insurance, and it does not eliminate the need for a shop to have adequate insurance of its own. But, for the shop willing to make the investment in doing a quality job as an assembler of equipment systems from components, it is a key element in their Risk Management plan.

This is only a summary of the TYROLIA Retailer Indemnity Program, complete requirements are listed in the current TYROLIA Binding Indemnification Agreement. You should read this Agreement carefully.

Retailer benefits under the terms of the plan are based, in part, on the adequacy of the service work performed by the mechanic. For this reason, thorough employee training is essential. This manual, a tech video and technical seminars are presented by TYROLIA to help define appropriate shop procedures.

It is the responsibility of the TYROLIA Authorized Retailer to see that all technical and product information materials provided by HEAD TYROLIA WINTERSPORTS INC., USA / HEAD TYROLIA SPORTS CANADA INC. are ordered and available in their shop. This should be done with the aid of your TYROLIA Representative while placing your TYROLIA pre-season binding order.

The TYROLIA Retailer Indemnity Program applies only to the following bindings:

**Line 2000/01/02/03/04/05/06:**
- MOJO 20 X, FREE FLEX PLUS 20 X,
- FREE FLEX PLUS 18 X, FREE FLEX PLUS 15 X,
- FREE FLEX PLUS 10 X, FREE FLEX PLUS 8 X,
- FREE FLEX PLUS 17, FREE FLEX PLUS 14,
- FREE FLEX PLUS 11, FREE FLEX PLUS 10,
- FREE FLEX PLUS 8, FREE FLEX PLUS 8 LD,
- FREE FLEX PLUS 7, MAD FLEX 9, LD 12 RAIL,
- SL 11 RAILFLEX, SL 10 RAIL, LD 12 RAILFLEX,
- HD 14 RAILFLEX, LD 10 RAILFLEX, SL 11 RAILFLEX,
- SL 10 RAILFLEX, HD 14 RAILFLEX DEMO,
- SL 11 RAILFLEX DEMO, SL 7 RAILFLEX LITE,
- SL 4.5 RAILFLEX LITE, SLW 9 RAILFLEX,
- POWER SELECT FREERIDE 9,
- POWER SELECT FREERIDE 8,
- POWER SELECT FREERIDE SL 110,
- CYBER CARBON D 9 SX, CYBER CARBON D 9,
- CYBER D 8 SX, CYBER D 8, CYBER SL 110,
- LD 12 CYBER, LD 12, LD 12 S, SL 11 ABS,
- MOJO 15, MOJO 11, SL 110 CARVE ABS, SL 110,
- SL 110 ABS, SL 110 S ABS, SL 100 CARVE ABS,
- SL 100 ABS, SL 100 CARVE, SL 100, SL 110 ABS,
- SL 110 S ABS, TD 8 TS, TD 8, SLW 90 ABS,
- FREE FLEX JUNIOR RACE 11, SL 70 CARVE ABS,
- SL 70 ABS, SL 70, SL 45

**Line 1997/'98/'99/2000:**
- FREE FLEX PLUS 10, FREE FLEX PLUS 8,
- POWER SELECT 9, POWER SELECT FREERIDE 9,
- POWER SELECT FREERIDE 8,
- POWER SELECT FREERIDE 7, POWER SELECT 8,
- POWER SELECT 8 Rent, FREE FLEX 9 World Cup,
- FREE FLEX 8 Racing, CYBER CARBON D 9,
- SL 100 CARVE ABS, SL 110 CARVE ABS, SL 100,
- SL 100 ABS, SL 100 ABS TS, CYBER D 8, CYBER 7,
- CYBER 6, CARVE FLEX 6, CARVE FLEX 4, TD 8,
- TD 8 TS, T 7, T 6, T 5, T 4, T 2, TD 9 T

**Rental:**
- SP 130 ABS DEMO AERO, SP 120 ABS,
- SP 120 WIDE BRAKE, SP 100 ABS, SP 90 ABS,
- SP 75 ABS, SP 70 ABS, SP 45, SR 100, SR 70,
- SR 45, SYMPRO 9, SYMRENT 6, SYMRENT 3,
- SYMRENT 2, SYMRENT 2 SL, SYMPRO 8 ABS,
- SYMPRO 8, SYMPRO 7, SYMPRO 4, SYMPRO 2 SL,
- SYMPRO 7, SYMPRO 5, SYMPRO 3, SYMPRO 2 SL,
- SYMPRO 9 ABS, SYMPRO 9 ABS PROMO,
- POWER SELECT 8 RENT DEMO, BYS 100 B,
- BYS 100 Y, BYS 100 Y

Retailer Agreements and Indemnification Agreements

Both Agreements must be completed annually. This year’s Retailer and Indemnification Agreements should already be completed, if not please contact your sales rep.

Completed Retailer Agreements, Indemnification Agreements and Employee Training Documentation Forms should be received at HEAD TYROLIA WINTERSPORTS INC., USA /
HEAD TYROLIA SPORTS CANADA INC
no later than December 31, 2006.

An administrative fee of $15 Cdn per year for each Certified Mechanic (maximum $75 Cdn per location) will be charged by TYROLIA in Canada and $30 US per location in the USA.

If a retailer loses his only TYROLIA Certified Mechanic, he must notify HEAD TYROLIA WINTERSPORTS INC., USA / HEAD TYROLIA SPORTS CANADA INC in writing within 48 hours.

Summary of Requirements
These basic requirements help assure that the end product which is delivered to the customer is appropriate.

- Signed, current copies of the HEAD-TYROLIA Authorized Retailer Agreement and the TYROLIA Bindings Indemnification Agreement must be on file with HEAD TYROLIA WINTERSPORTS INC., USA / HEAD TYROLIA SPORTS CANADA INC.

- The shop must adhere to 2006/07 TYROLIA procedures for selection, mounting, adjusting, testing and/or servicing of system components as detailed in this manual.

- The actual TYROLIA retention/release adjustment, or its equivalent, must be used.

- A TYROLIA Certified Mechanic must properly mount, inspect, adjust and/or service system components and/or check to make sure all service, adjustments, testing and record keeping were properly completed.

- Mechanics must receive full training, including hands-on practice in the use of system testing devices, as provided by the testing device supplier. A multiple operator reproducibility test should be completed and results documented by the shop each season.

- The shop must maintain records of all retail/rental testing and/or service work for 5 years or for the length of the statute of limitations in the state where your business resides, whichever is longer. Bear in mind that the statute of limitations for minors begins only when they come of legal age.

Paperwork Requirements
TYROLIA Retail/Rental Workshop tickets have proven their importance in the legal system, and we strongly recommend their use (see elsewhere in this manual).

At the very minimum, records must contain the following information:

- Identification of shop and customer: name, address, phone.

- Date of transaction or work.

- Information on which binding settings are based: skier height, weight, skier type, age, boot sole length.

- A full description of the equipment being serviced or rented (skis/boots/bindings), including but not limited to brand, model, size and serial numbers.

- Skier code, “initial” binding release/retention settings, and final settings.

- Signed, dated statement from the TYROLIA Certified Mechanic that all manufacturer’s procedures have been completed, and the signature of the mechanic who performed the service (if they are different individuals).

- An agreement dated and signed by the customer, the language of which is substantially similar to the current TYROLIA form. This agreement must include the following points:
  - User verification of skier information.
  - WARNING that there are risks of injury inherent in the sport of skiing and that the customer accepts those risks.
  - DISCLOSURE of the equipment’s limitations, that it will not release, retain or prevent injury under all circumstances, and is no guarantee of the user’s safety.
  - RELEASE language whereby the user releases the retailer, manufacturer and distributor from liability and damages, to the fullest extent allowed by law.
  - STATEMENT that no warranties of any kind are offered by the shop beyond those offered by TYROLIA.

- AGREEMENT that instruction in the use of the equipment has been received, that the skier height, weight, skier type, age, boot sole length, as well as the settings on the binding match those on the record form, and that the skier will inspect the system, including the binding’s AFD, before each use.

- Signatures by both the customer and TYROLIA Certified Mechanic are required for the TYROLIA Retailer Indemnity Program.

Note:
- Any changes in documentation requirements must be authorized in writing by HEAD TYROLIA WINTERSPORTS INC; USA or HEAD TYROLIA SPORTS CANADA INC.

POST ACCIDENT REPORT (SEE SAMPLE IN APPENDIX).

In addition to the above information on the system’s performance, fill out a Post Accident Report when you become aware that an injury has occurred. Keep this document for 5 years or the duration of the statute of limitations for minors, whichever is longer.

In the event of an injury claim
- Notification to HEAD TYROLIA WINTERSPORTS INC., USA / HEAD TYROLIA SPORTS CANADA INC. by retailer, of any bodily injury claim, must be made in writing on or before the tenth
calendar day from the date on which the retailer first received notice of any such claim. In the event of a lawsuit the retailer must notify his/her own attorney and must cooperate with HEAD TYROLIA WINTERSPORTS INC., USA / HEAD TYROLIA SPORTS CANADA INC. and respond to requests as required.

• In a rental situation, from the time that any injury claim is made to the retailer, the retailer must maintain possession of any equipment that may have been involved in the accident. (Equipment may be returned to service upon passing a post-accident investigation.)

• In the event of an injury, a Post Accident Report must be completed and retained if the shop is in possession of all components of the system. If the entire system is not available for test it should be noted and all pertinent information such as equipment condition, visual indicator settings, and any equipment abnormalities should be recorded.

Note:
TYROLIA reserves the right to deny indemnity if TYROLIA requirements are not fulfilled. Strict compliance by the dealer with all requirements, as stated in the TYROLIA Binding Indemnification Agreement, is a condition precedent to favorable consideration of a request for indemnity.

This is only a summary. The precise requirements of the TYROLIA Binding Indemnification Program are contained in your TYROLIA Binding Indemnification Agreement.
TYROLIA warrants to the initial purchaser that its 600, 700 series and newer bindings are warranted to be free from defects in materials and workmanship for a period of four years from date of purchase or five years from date of manufacture, whichever period expires earlier.

For rental bindings it is 2 years from date of purchase.

TYROLIA disclaims all other warranties express or implied (USA and Canada).

Buyer’s sole remedy under the above warranty or under any implied warranty is limited to the repair or replacement, at TYROLIA’s sole option, of subject product or parts thereof. Buyer should return the subject product or parts to the place of purchase for warranty service.

This limited warranty applies only to products that have been subject to normal use and that have been properly serviced.

It excludes parts subject to wear such as AFD’s, brakes, windows, plastic or metal tracks, etc. The “Instructions for Use” booklet (warranty), proof of purchase and proof of periodic service must accompany all bindings returned for replacement consideration.

Limitation of Liability

In no event shall TYROLIA be liable for incidental, consequential statutory or exemplary damages, whether the action is in contract, warranty, negligence or strict liability, including without limitation, loss to property other than the binding, loss of use of the binding or other property, or other economic losses. TYROLIA shall not be liable for contribution or indemnification, whatever the cause.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Some states do not allow the exclusion of limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Service under the TYROLIA Warranty

Products requiring service under the terms of the warranty should be dealt with as follows:

- Send the complete binding set to the authorized distributor where evaluation will be made and warranty action taken if required.
- If a clear warranty situation exists, and the shop wishes to replace the pair of bindings products out of stock for a customer, the shop may do so after the approval of the ski warranty department of your TYROLIA distributor. Be sure to check suitability and mounting hole pattern before making a change of model.
- When possible, the replacement should be of the same model as the returned product.
- If the same model is not available, the shop should contact the authorized TYROLIA distributor warranty department for authorization before a more expensive model is selected for replacement.
- If a replacement is made from retailer stock, the complete binding set should be returned to the authorized TYROLIA distributor as soon as possible. The packing list must clearly state which model was used for replacement.
- The “Instructions for Use” booklet (warranty), and proof of purchase must accompany all products returned for consideration.
- No credits will be issued.
- The authorized TYROLIA distributor reserves the right to deny replacement to the retailer if the alleged problem is not verified or if products are returned without the “Instructions for Use” booklet and proof of purchase.
- Replacement bindings are covered by the warranty stated above.
- Any bindings returned to the authorized TYROLIA distributor due to inappropriate release values (i.e. values which fall outside the “In-Use” tolerance range on the current TYROLIA Adjustment Chart) must be accompanied by a completed System Performance Report. The report form is printed in this manual; no warranty action will be taken on release value related claims unless this report accompanies the returned bindings.

Distributor addresses:

HEAD USA
Shore Pointe, 1 Selleck St.
Norwalk, CT 06855
USA
Phone: 800-874-3235
203-855-8666
Fax: 203-855-5719
www.tyrolia.com

HEAD TYROLIA SPORTS CANADA INC.
P.O. Box 3620, Station Main
Guelph, Ontario N1H 7H1
Canada
Phone: 800-265-7257
519-822-1576
Fax: 519-822-2202
www.tyrolia.com

THE TYROLIA LIMITED WARRANTY
Indemnification, Insurance, and your liabilities.

**Indemnification**

Indemnification simply means that someone agrees to reimburse you for certain costs. In the ski industry it normally means that provided you fully follow the manufacturer's requirements and install and adjust the binding system correctly, the manufacturer or distributor will provide a defense and pay any judgment which may be entered against you if you are the subject of a claim or suit by a customer who claims to have suffered bodily injury as a result of using certain equipment.

The key here is you must be able to prove that you did your job properly in order to qualify. If you do not, you will not be entitled to a defense or indemnification in the event of a claim.

**Your personal Liability**

It's simple: If you make a mistake which causes harm to another, you can be held liable for it.

Be very careful not to make verbal warranties that extend beyond those made by TYROLIA. Read the manufacturer's literature and warranties carefully. If a feature or benefit is not mentioned there, don’t mention it to the customer.

**Shop Liability Insurance**

No indemnification program is a substitute for liability insurance.

Common sense dictates that you should have an insurance policy that covers your shop and employees for commercial general liability and completed operations. Check with your insurance broker.

**Shop Procedures To Reduce Legal Exposure**

Risk Management has become a very important area in virtually every industry. In today’s world it is more important than ever to do as much as possible to recognize how and where we might be exposing ourselves to a potentially serious problem.

TYROLIA has been the leader in molding valuable risk management concepts into a program that virtually the entire ski industry follows today. TYROLIA has defined proper shop practices and how shop personnel and customers need to interact in order to maximize skiing enjoyment while lowering the risks of liability.

If these procedures are followed properly, both the skier and the industry are well served. In the event of a mishap, the programs documentation and record keeping system will provide strong evidence of work performed.

Your Obligations under the TYROLIA Retailer Indemnity Program

Selecting equipment for your customer.

- Make sure the products are suitable for the skier's height, weight, ability, shoe size and level of ability.
- Always make sure your recommendations are consistent with the manufacturer's.

**Binding selection**

Generally, the idea that top of the line products offer the greatest margins for safety as well as performance and durability is correct – provided the skier fits the weight range of the product.

Combine this knowledge with our weight and ability recommendations for the skier when selecting a binding. Avoid selling a product with the idea that the customer will grow into it. If a product is not suitable for their current requirements make another choice.

Avoid the temptation to do the customer a favor by re-writing the rules. More often than not, all you will do is cause problems.

At the time of delivery to the customer, the bindings must be accompanied by all the informational materials supplied by the manufacturer, i.e., pamphlets, forms, etc.

The product must be fully demonstrated to either the intended user or their parent or legal guardian if the child is a minor.

This includes instructions on inspecting the low friction surfaces, cleaning the boot sole, entry of the binding, re-entry after releasing on the hill and exiting the system.

You must also explain what care and maintenance the skier is responsible for, as well as when to return the equipment to your shop for a thorough function check. Routine maintenance is the most cost effective thing a skier can do to protect their well being.

**Boot selection**

Make sure the customer's boot choice is consistent with their level of skiing and that the boots meet all current DIN or ISO standards.

**Ski selection**

Take care to ensure that the skier’s intended use of the chosen equipment is consistent with the manufacturer’s recommendation for the skier’s weight and level of skiing. This is another area where regular maintenance is critical. It is only logical that skis which help keep your customer upright reduce their overall chance of injury.
Racing (X) Bindings

Certain binding models are produced by TYROLIA each year for the exclusive use of qualified competitors under the supervision of TYROLIA Technical Specialists. These bindings are not covered by either the TYROLIA Warranty or any Dealer Indemnity Program. We recommend you decline to service them, and warn against their use.

In a similar vein some skiers may wish to use retention settings which are excessive. DIN settings over 10 do not satisfy current industry standards and should not be used. Adjustments exceeding this range are made on one’s own risk.

Completing the Work Order with the Customer

It is critical that certain basic information be included on all shop work orders. While we do not require it, the easiest way to make sure the form you use fits TYROLIA’s requirements is to use ours.

Once the customer has selected equipment or described the repair or service to be performed, the technician must ask the customer to complete a portion of the Work Order Form which includes their Name, Address, Phone number, Weight, Height, Age, Sex, and Skiing ability.

There are few things more embarrassing than having a customer come in to pick up a pair of skis that could not be serviced due to an improperly filled out form, or an unforeseen technical problem. The best way to avoid this is to have a TYROLIA Certified technician thoroughly inspect all incoming work, and check the paperwork.

The skier must then sign indicating that they have read, understood, and agreed to the terms of your Rental/Repair agreement (this agreement must comply with TYROLIA Dealer Indemnity Program requirements).

It is also important that the customer be informed that they will be expected to verify in writing that the indicator settings agree with what is written on the form, and that they have been instructed in the use and maintenance of their equipment, and fully understand it.

This procedure must be completed before the transaction is consummated. Remember, the customer has the option of going to another store if the terms of the contract are not acceptable to them, and under no circumstances should the transaction go any further without their signature. The end user, or their agent, must sign the incoming work order.

Shop Procedures Summary

For in depth details, see the “Binding Installation” section of this manual.

• Follow TYROLIA procedures for inspection, mounting, adjustment and maintenance as appropriate.

• Confirm that toe and heel indicator values match those specified on the actual TYROLIA Adjustment Chart.

• Using a calibrated testing device, according to the manufacturer’s instructions for use, “exercise” the binding by releasing it at least once in each direction (clockwise and counter-clockwise at the toe, vertically at the heel). Then measures Twist and Forward Lean Torque Values. The middle quantitative value of 3 releases in each direction should be used as the test result.

• Compare Twist and Forward Lean test, results with the System Inspection Ranges on the actual TYROLIA Adjustment Chart.

• After the equipment is adjusted to the skier’s needs according to the manufacturer’s standards, the certified technician signs the form indicating that the work has been completed according to the manufacturer’s specifications.

• With testing complete, the TYROLIA Certified Technician must complete and sign the work-shop ticket. Be sure the Final Indicator Settings are correctly shown there. The workshop ticket should simply reflect that the system has “passed all tests” or that “all manufacturer’s procedures have been completed”.

Procedures For Retail Customer Pick-Up

When the Retail Customer or his representative comes in to pick-up the equipment, the store employee has a fantastic opportunity to improve the skier’s safety and enjoyment, while minimizing the risk of a lawsuit later on. All that’s involved is properly informing the skier about the realities of skiing and ski equipment.

• Explain the function and operation of the binding, including a review of the manufacturer’s pamphlet.

• Explain the settings that show in the release setting windows and how they were derived by referring to the manufacturer’s release adjustment charts.

• Explain how much proper maintenance of the entire system (boots, bindings and skis) can improve their enjoyment and margins for safety. Also make it clear that skiing, like any sport, has its risks, and equipment can not eliminate them.

• Have the customer sign the form again indicating that they have been instructed on the use of the equipment and that they verified that the visual release indicators on the bindings correspond to the manufacturer’s recommended settings shown on the work order ticket.
Archiving Records
Should you become one of the few that must defend against a law suit you will soon find out that the very best defense is made of paper. For this reason we recommend that you start out each ski season with a huge, brand new, manila envelope. Over the course of the season you should fill it with the following items:

- Collect a copy of the technical manual for each and every binding, boot and ski on the market. Be especially diligent with those you carry or work on regularly.
- Copies of the manufacturer’s customer instruction booklets.
- Technician employment applications. Make sure they have the address of someone who will always know where they can be found, and is likely to stay put – Moms are good. This can be invaluable if you need the technician as a witness.
- A listing of all technician certifications and their dates. Keep all certification records as well.
- Copies of any pertinent wall charts, customer information posters etc.
- A copy of your shop procedures, including training materials, rental and repair shop practices, and binding setting charts.
- Copies of rental fleet test data.
This type of supporting documentation can be tremendously useful for your lawyer.

Storage of Forms
All forms containing the customer’s signature must be kept for a minimum of five years or the term of the statute of limitations in the state where the injury occurs, or your state, whichever is longer. As a practical matter you have no idea where or when your customer may sustain an injury on this equipment.

Naturally, should an injury occur to either an adult or a child, keep the original form in a safe place until the case is completely resolved.

Risk Management is really just common sense. Do your job well, have integrity, keep your customers well informed, and keep proper records. Follow these simple rules and you will have very few problems.
USE OF NON-RECOMMENDED SETTINGS

Skiers Requesting Settings not Recommended by TYROLIA

The 2006/07 TYROLIA Release/Retention Adjustment Table is the only adjustment chart recommended for use by TYROLIA dealers during the 2006/07 season.

Some skiers may request settings different from those in the TYROLIA Release/Retention Adjustment Table. Most of these concerns can be addressed by following the procedures for reclassifying skier type and for troubleshooting which follow the instructions for using the TYROLIA Release/Retention Adjustment Table.

TYROLIA and the ISO/ASTM standards organizations do not recommend the use of release/retention settings outside of these tolerances, but skiers occasionally may request such settings. TYROLIA recognizes a skier’s right to choose other settings, but if the skier requests settings outside of those derived from the normal procedures for re-classifying skier type and for troubleshooting, the shop may either:

1. Adjust the system to the setting derived from the TYROLIA Release/Retention Adjustment Table and instruct the skier on how to change the setting (if this is done, make a note to this effect on the workshop or rental form), or

2. Adjust the system to the skier’s individual request, but only if the technician notes on the workshop or rental form the reason the higher or lower setting was requested. Do not in any case adjust the system to a release/retention value higher than the maximum acceptable setting at the bottom of the TYROLIA Release/Retention Adjustment Table. The customer must verify the request for the higher or lower settings by signing and dating the workshop or rental form by the reason noted next to the setting request. The skier must also read and sign a warning, release and indemnity agreement identical to the one printed on this page. In such cases, the system will only be indemnified if all other conditions of indemnification are met and the signed warning, release and indemnity agreement are attached to the completed workshop or rental form.

Warning, Release and Indemnity Agreement

I, _______________________________________________________, hereby acknowledge that I have been advised by the ____________________________ rental shop, sales department, etc.) that settings which I have requested for my bindings (Model _____________________) is not the setting recommended by the manufacturer of the bindings for a skier of my height, weight, age and skier type. I understand and acknowledge that there may be an increased risk of injury or death to me as a result of my own personal preference for these binding settings.

To the fullest extent allowed by law, I hereby waive and release all claims arising from the use of the bindings and release from all liability the shop, the distributor and the manufacturer, their agents and employees, and I further agree to indemnify them from any and all liability or harm or damage of any kind whatsoever which may result from the use of these bindings by myself or anyone I allow to use the bindings.

I, the undersigned, have read and understand this liability release agreement, and agree that it is binding upon me, my heirs, guardians, administrators, assigns, and legal representatives. If any part of this agreement is held to be invalid or unenforceable, the remainder shall be given full force and effect.

________________________________________________________
Skier’s Signature
(or that of the skier’s parent or guardian)

________________________________________________________
Shop Manager’s Signature
POST ACCIDENT INSPECTION REPORT

Date of Accident ______________________ Work shop Ticket # ______________________

Skier Name ______________________ Skier Phone ______________________

Address ______________________ Witness Name ______________________

City, State Zip ______________________ Witness Phone ______________________

Skier’s Description of Accident and Injury

______________________________________________________________

______________________________________________________________

______________________________________________________________

______________________________________________________________

(Use Back For Additional Comments)

Description of System

<table>
<thead>
<tr>
<th>Ski Brand</th>
<th>Model</th>
<th>Size</th>
<th>Rented</th>
<th>Purchased</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial #</td>
<td>Inv. #</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Boot Brand</th>
<th>Model</th>
<th>Size</th>
<th>Rented</th>
<th>Purchased</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Binding Brand</th>
<th>Model</th>
<th>Size</th>
<th>Rented</th>
<th>Purchased</th>
</tr>
</thead>
</table>

Condition of System

Are the boot soles within industry standards? Yes _______ No _______

Are all buckles, boot adjustments functioning correctly? Yes _______ No _______

Are the A.F.D.’s Intact? Yes _______ No _______

What are the Visual Indicator Settings? Toe _______ Heel _______

Is the Forward Pressure set correctly? Yes _______ No _______

Is the Toe Height set correctly? Yes _______ No _______ NA _______

Do the brakes function smoothly? Yes _______ No _______

Is the ski bent delaminated or damaged? Yes _______ No _______

Describe: _______________________________________________________

Was the equipment returned to service post-accident? Yes _______ No _______

Mechanical System Testing

<table>
<thead>
<tr>
<th>Testing Device</th>
<th>Last Calibration date / /</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clockwise Ctr Clockwise Clockwise Ctr Clockwise</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toe</th>
<th>L _______ R _______</th>
</tr>
</thead>
</table>

| Heel | L _______ R _______ |

Background

Shop Name ______________________

Inspected By ______________________ Inspector Signature ______________________

Checked By ______________________ Checker Signature ______________________
### SYSTEM PERFORMANCE REPORT

**Shop Name**

**Phone**

**Address**

**City**

**State, Zip**

**Date Report Completed** / /  

**Workshop Ticket Date** / /  

**Workshop Ticket #**

**Inspector’s Name**

**Position**

---

#### A. Description of System

<table>
<thead>
<tr>
<th>Rented</th>
<th>Purchased</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Ski Brand**  
- **Model**  
- **Size**  
- **Serial #**  
- **Inv. #**

- **Boot Brand**  
- **Model**  
- **Size**

- **Binding Brand**  
- **Model**  
- **Size**

---

#### B. System Performance

- **Boot Sole Length** mm  
- **Binding Indicator Setting**

- **Condition**  
- **Heel L**  
- **R**

- **Testing Device**

- **Chart date** / /  

- **“In Use” Torque Tolerance:**  

  - **Forward Lean**
  - **Twist**

---

#### Measured Release Values:

<table>
<thead>
<tr>
<th>Toe</th>
<th>Clockwise</th>
<th>Ctr Clockwise</th>
<th>Heel</th>
<th>Clockwise</th>
<th>Ctr Clockwise</th>
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<td>R</td>
<td>L</td>
<td>L</td>
<td>R</td>
<td>L</td>
<td>L</td>
</tr>
</tbody>
</table>
**USED BINDING CHECKLIST**

1. Customer concerns
2. Service bulletins – maintenance
3. Suitability
4. Availability – parts/tools/technical info
5. Boot/binding compatibility
6. Compatibility of under-binding options
7. Defects:
   1. a) delaminated
   2. b) edge pulled out
   3. c) cracked side wall
   4. d) warped, bent, twisted
   5. e) damaged tip/tail protector
   6. f) lost camber
8. Binding to boot adjustments
9. INITIAL ASSESSMENT
10. Tests:
    1. a) screw tightness
    2. b) antishock travel
    3. c) compatibility (if indicated)
    4. d) release indicator verification
    5. e) accelerated life cycle
       (with permission)
11. FINAL ASSESSMENT

**USED SKI CHECKLIST**

1. Customer concerns
2. Service bulletins – tuning requirements
3. Suitability
4. Defects:
   1. a) delaminated
   2. b) edge pulled out
   3. c) cracked side wall
   4. d) warped, bent, twisted
   5. e) damaged tip/tail protector
   6. f) lost camber
8. Base/edge condition/thickness
9. INITIAL ASSESSMENT
10. Tests:
    1. a) screw tightness
    2. b) antishock travel
    3. c) compatibility (if indicated)
    4. d) release indicator verification
    5. e) accelerated life cycle
       (with permission)
11. FINAL ASSESSMENT

**USED BOOT CHECKLIST**

1. Customer concerns
2. Service bulletins – fitting requirements
3. Suitability
4. ISO sole dimensions – Adult/Child
5. Sole hardness/material
6. Defects:
   1. a) sole – warped
   2. b) contact area – damaged/worn
   3. c) contact area – contaminated
   4. d) shell/liner/buckle – damaged
7. Type/position of foot bed/fitting aids
8. INITIAL ASSESSMENT
9. Fit:
   1. a) foot anomalies
   2. b) foot/boots size comparison
   3. c) foot in boot evaluation
10. Performance adjustments
11. FINAL ASSESSMENT

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TYROLIA DEALER AREA - tyrolia.com

On our website, tyrolia.com, you'll find our special online dealer service.

Login and find:
- Technical manuals in the download area
- Spare Parts database
- Detailed rental section including an e-learning programme
- TYROLIA e-college

To login please choose your country and enter the country as the password.
i.e. select country: USA
Password: usa
DETERMINING YOUR SKIER TYPE IS YOUR RESPONSIBILITY!

Your Skier Type, height, weight, age and boot sole length are used by the shop technician to determine the release/retention settings for your bindings. Consult these descriptions to select your classification. Be sure to provide accurate information. Errors increase your risk of injury.

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Release/Retention Settings</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Cautious skiing on smooth slopes of gentle to moderate pitch.</td>
<td>Lower than average</td>
<td>For entry-level skiers uncertain of their classification.</td>
</tr>
<tr>
<td>II</td>
<td>Skiers who designate themselves as Type II receive average release/retention settings appropriate for most recreational skiing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>III</td>
<td>Fast skiing on slopes of moderate to steep pitch.</td>
<td>Higher than average</td>
<td>Skiers who designate themselves as Type III receive higher than average release/retention settings. This corresponds to decreased releasability in a fall in order to gain a decreased risk of inadvertent binding release. Type III settings should not be used by skiers of less than 22 kg/48 lbs.</td>
</tr>
</tbody>
</table>

If you are unsatisfied with the release/retention settings that result from your classification please mention this to your binding technician.
## Drill Template Chart 2006/07

<table>
<thead>
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<th>Model</th>
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<th>Design</th>
<th>Notes</th>
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<td>FREE FLEX PLUS 18 X</td>
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<td>FREE FLEX PLUS 11,</td>
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<td>LD 12 CYBER, LD 12,</td>
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<td>MOJO 15, MOJO 11, MOJO 7,</td>
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<td>CARVE PLATE 9 SLR, JUNIOR RACING PLATE</td>
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<td>SL 45</td>
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<td>162 763</td>
<td>SP 130 ABS DEMO AERO</td>
<td>SP 120 ABS, SP 100 ABS, SP 90 ABS,</td>
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<td>JUNIOR RACING PLATE (only Rental)</td>
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<tr>
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<td>SR 100</td>
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<tr>
<td></td>
<td>162 756</td>
<td>RAILFLEX BASE II</td>
<td>RAILFLEX LITE BASE</td>
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