RENTAL

SOLUTIONS

TECHNICAL MANUAL

2021/22

HEAD head TYROLIA

HEAD RENTAL SOLUTIONS
TABLE OF CONTENTS

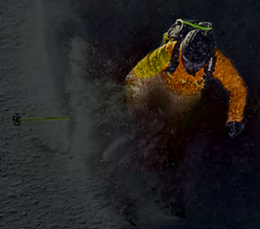
THIS MANUAL BELONGS TO:

NAME: _____

SHOP: _____

DEALER #: _____

RENT AND RIDE IN 58 SECONDS



How can you go wrong when the same engineers and factory that builds skis for the worlds best skiers like Alexis Pinturault, Beat Feuz and Lara Gut-Behrami are responsible for the design and manufacturing of HEAD'S rental products?

Combine that engineering know-how with a dedicated Worldwide Rental Product Manager who worked the trenches of rental shops and you have the best products that meet the needs for today's skiers of all levels. With our systems, we address all the requirements of a high volume resort rental operator.

HEAD is the first company to design a simplified rental system, reducing inventory needs to 5 ski sizes and only 3 boot sole lengths covering a range of 12 boot sizes.

By minimizing the possible combinations, we have revolutionized how a resort staffs their rental department. All system products are premounted, pre-calibrated, bar-coded, color-coded and ready to use from the factory, reducing costly set-up time.

Your rental shop is one of your highest yielding profit centers. Why not supercharge with HEAD BYS Adult, HRS Junior and 4D Snowboard and move your rental customers to the slopes in 58 seconds.

Each product is designed to ensure comfort, warmth and safety for the beginning to advanced skier/ snowboarder.

Every other aspect of your business runs on a system. You have a POS system, a snow-making system, and a ticketing system, now it's time for the HEAD RENTAL SYSTEM.

HEAD IS FOCUSED ON RAISING THE RENTAL CUSTOMER EXPERIENCE

THE ONLY COMPANY PROVIDING

- Factory mounting and binding calibration.
- Certificate of Calibration good for first season.
- Sales and Tech Rep support in setting up rental fleets and procedures.
- Two year warranty on all rental products.
- Free replacement parts for two years.
- Online certification and indemnification for shop employees.

Quickest system to the slopes.
Ease of use and sizing they understand.
Confidence-building ski and snowboard shapes for the fastest progression through ski school.

Resort merchandising and POP to reinforce the HEAD rental experience. Design incorporating comfort, warmth, and safety in all our products.

WHY NOT REDUCE THE FOLLOWING

- Fleet set-up time
- Number of units required to operate your feet
- Rental shop staffing at peak periods by 20%
- Staffing at off-peak periods by as much as 40%
- Turn-around time of customers in shop <Ride in 58 Seconds>
- Training for rental techs
- Exposure to liability

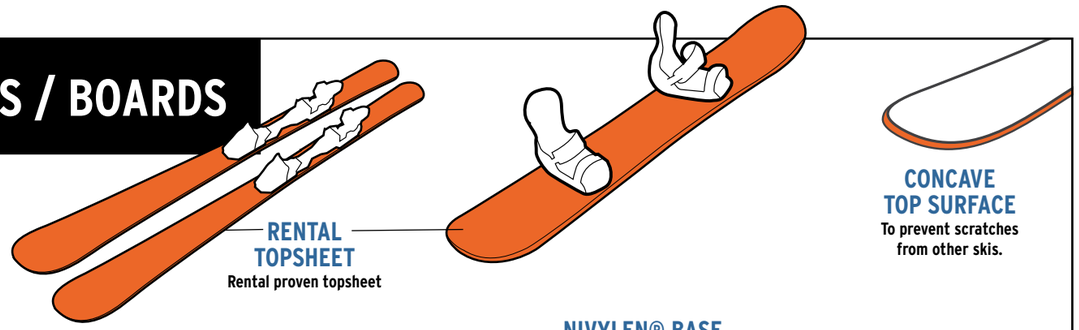
EXPLORE EXTREME DURABILITY

With our Protective Frame Design, Framewall and Nivylen® running base, you'll love the durability of our products, and your customers will love the look and performance.

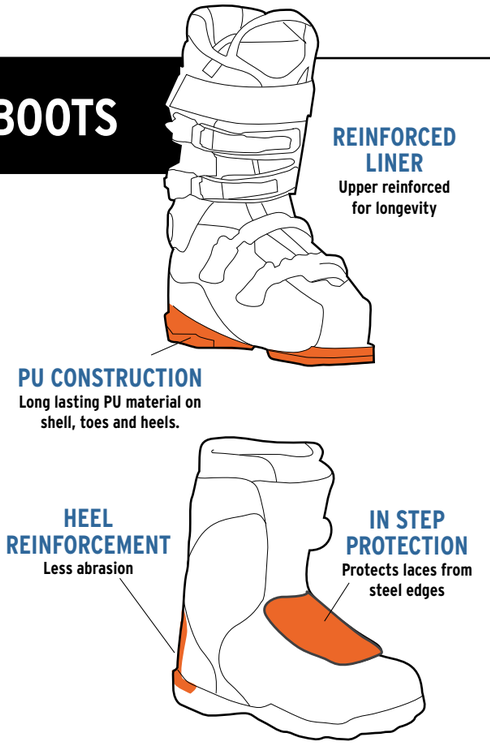
HEAD RENTAL SOLUTIONS are a safe investment!

ALPINE / SNOWBOARDS

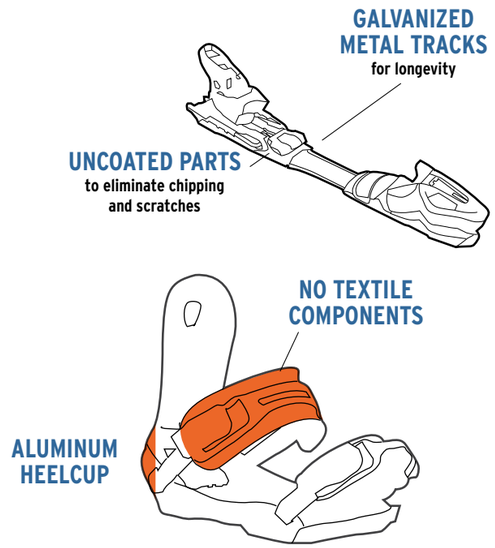
SKIS / BOARDS



BOOTS



BINDINGS



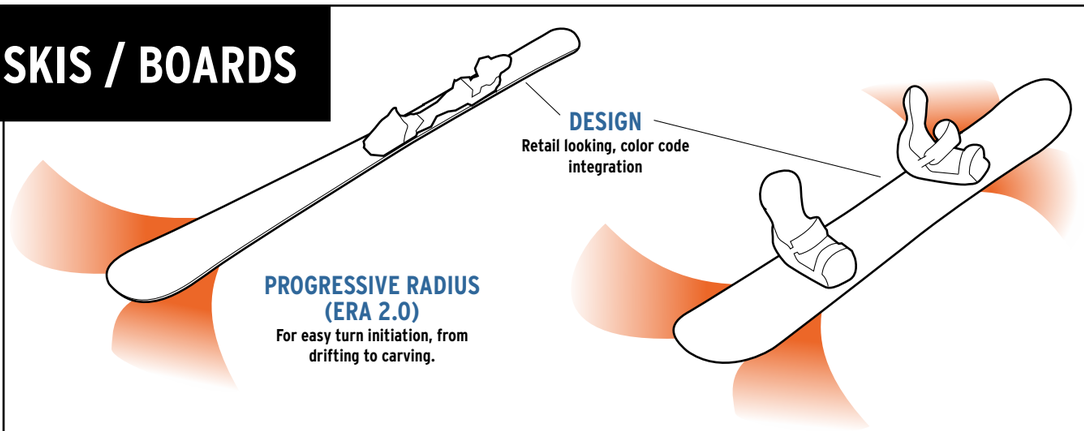
ENJOY ALL WAYS OF USABILITY

Rental Rocker, progressive radius and a wide variety of shapes and widths gives you the trust that you are providing the perfect set up for every guest.

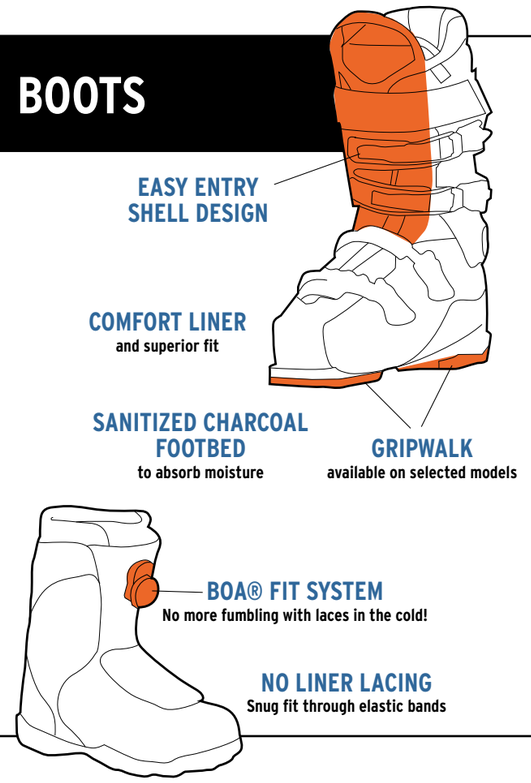
HEAD RENTAL SOLUTIONS offer the best experience!

ALPINE / SNOWBOARDS

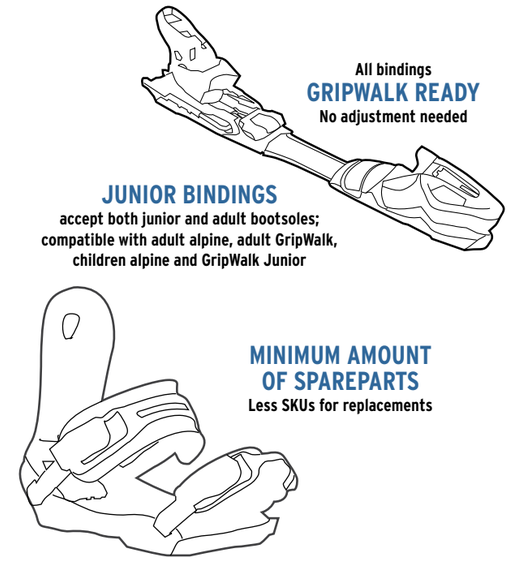
SKIS / BOARDS



BOOTS



BINDINGS



A WHOLE WORLD OF POSSIBILITIES

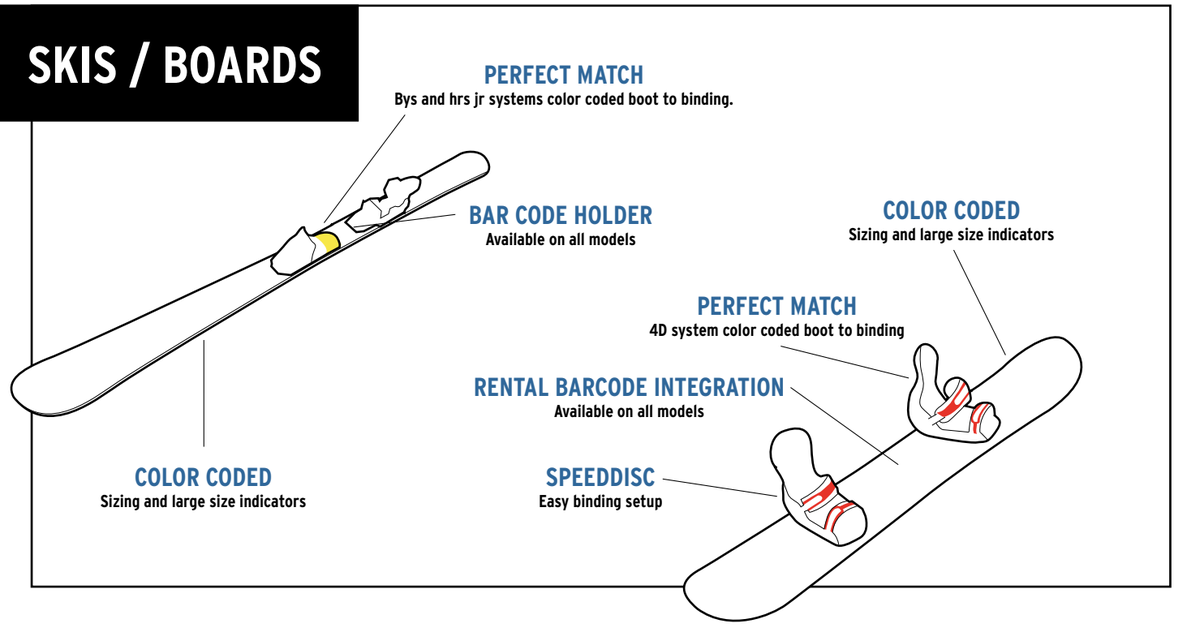
SYSTEM INTEGRATION

You'll always have the "perfect match" with our colour coded boots and bindings. BYS and HRS Jr for alpine and 4D for snowboard virtually eliminates the need for any adjustment on your equipment. How can it get any easier?

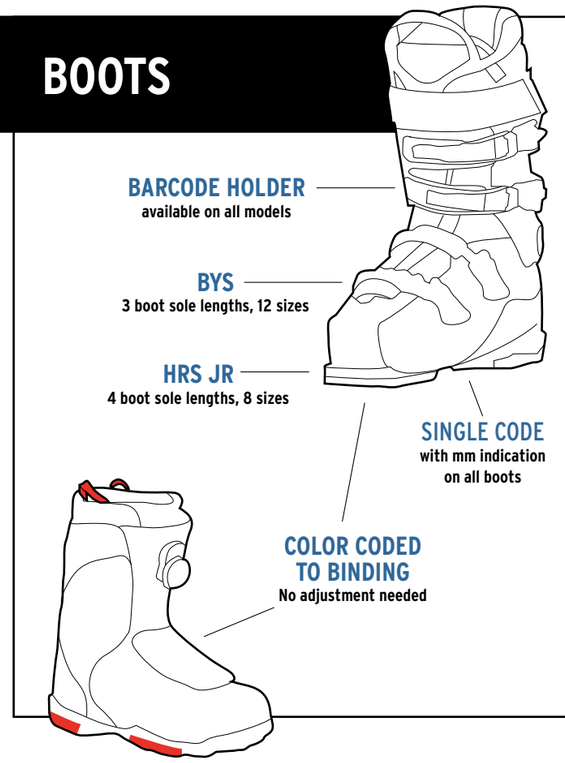
HEAD RENTAL SOLUTIONS guarantee the most efficient rental process!

ALPINE / SNOWBOARDS

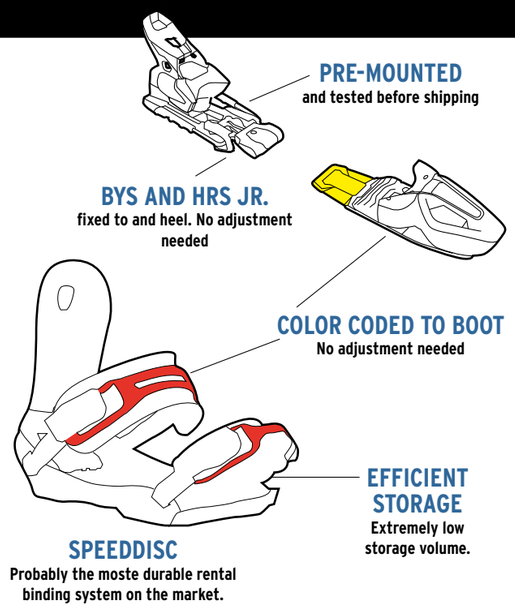
SKIS / BOARDS



BOOTS



BINDINGS



HEAD/TYROLIA RENTAL BINDINGS

THE BEST IN RENTAL PERFORMANCE FOR BOTH CUSTOMER AND OPERATOR

TOE ADJUSTMENT

- Thumb operated
- Millimeter and Single Code based boot centering
- Locking toe

WEIGHT REDUCTION

- Lower toe track
- Shorter heel track
- Reduced overall length
- Super Light components

PERFORMANCE FEATURES

- Consistent boot centering over whole adjustment range
- Ramp angle based on retail binding Improved ski flex due to shorter track length
- Fully GripWalk compatible

HEAD/TYROLIA RENTAL LINE 21.22

SP 13 GW

ARTICLE NUMBER
114405 - solid black/white, Brake [D]
114460 - solid black/white, Brake [D] 95mm

PRODUCT FEATURES
RX Toe with TRP System, Full Diagonal, AFS - Anti Friction Slider GW, SYMPRO, NX Heel W/O Brake [D]

PRODUCT DETAILS

STAND HEIGHT	31 mm
DIN	4 - 3
WEIGHT	2620 g
BOOT TYPE	Alpine A: ISO 5355 A, GripWalk: ISO 23223 A

SP 10 GW

ARTICLE NUMBER
114391 - solid black, Brake [D] 85 mm
114392 - solid black, W/O Brake [D]
114393 - solid black, W/O Brake [D]
114395 - solid black, Brake [D] 110 mm

PRODUCT FEATURES
SX Toe with TRP System, Full Diagonal, AFS - Anti Friction Slider GW, SYMPRO, NX Heel, Brake [D] 85mm

PRODUCT DETAILS

STAND HEIGHT	31 mm
DIN	2,5 - 10
WEIGHT	2580 g
BOOT TYPE	Alpine A/ Alpine C: ISO 5355 A, ISO 5355 C
	GripWalk: ISO 23223 A
	GripWalk Jr.: ISO 23223 C
	Touring: ISO 9523

SR 10 GW

ARTICLE NUMBER
114396 - SR 10 GW - solid black, Brake [D] 85 mm

PRODUCT FEATURES
SX Toe with TRP System, Full Diagonal, AFS - Anti Friction Slider GW, SYMRENT, NX Heel, Brake [D] 85mm

PRODUCT DETAILS

STAND HEIGHT	22 mm
DIN	2,5 - 10
WEIGHT	2200 g
BOOT TYPE	Alpine A: ISO 5355 A, GripWalk: ISO 23223 A

BYS 10 GW

ARTICLE NUMBER
114398 - solid black, Brake [D] 85 mm

PRODUCT FEATURES
SX Toe with TRP System, Full Diagonal, AFS - Anti Friction Slider GW, BYS, NX Heel, Brake [D] 85mm

PRODUCT DETAILS

STAND HEIGHT	21 mm
DIN	2,5 - 10
WEIGHT	1890 g
BOOT TYPE	Alpine A: ISO 5355 A, GripWalk: ISO 23223 A

SR 4.5 GW CA

ARTICLE NUMBER
114495 - solid black, Brake [K] 80mm

PRODUCT FEATURES
SX Kid Toe with TRP System, Full Diagonal, AFS GW Jr. - Anti Friction Slider GW Jr., SX Youth Heel

PRODUCT DETAILS

STAND HEIGHT	15 mm
DIN	0,75 - 4,5
WEIGHT	1330 g
BOOT TYPE	ISO 5355 A, ISO 5355 C, GripWalk: ISO 23223 A GripWalk Jr.: ISO 23223 C

ATTACK 14 MN DEMO

ARTICLE NUMBER
114454 - solid black, W/O Brake [F]
114455 - solid black, Brake [F] 95mm
114456 - solid black, Brake [F] 110mm

PRODUCT FEATURES
FR PRO² Toe, AFS Metal AT, ATTACK_ DEMO_PR, NX FR Heel, W/O Brake [F]

PRODUCT DETAILS

STAND HEIGHT	32 mm
DIN	4 - 13
WEIGHT	2250 (*2550) g
BOOT TYPE	Alpine A: ISO 5355 A, Touring: ISO 9523, GripWalk: ISO 23223 A

* with BRAKE

JRS 7.5 GW CA RENT

ARTICLE NUMBER
114472 - solid black/white, Brake [H] 78mm

PRODUCT FEATURES
SX Junior Toe with TRP System, Full Diagonal, AFS Jr. - Anti Friction Slider Junior GW, JRS, SX Youth Heel

PRODUCT DETAILS

STAND HEIGHT	27 mm
DIN	2 - 7,5
WEIGHT	1220 g
BOOT TYPE	ISO 5355 A, ISO 5355 C, GripWalk: ISO 23223 A, GripWalk Jr.: ISO 23223 C

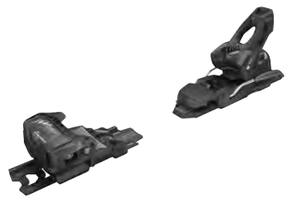
JRS 4.5 GW CA RENT

ARTICLE NUMBER
114476 - solid black/white, Brake [I] 80mm

PRODUCT FEATURES
SX Kid Toe with TRP System, Full Diagonal, AFS Jr. - Anti Friction Slider Junior GW, JRS, SX Youth Heel

PRODUCT DETAILS

STAND HEIGHT	27 mm
DIN	0,75 - 4,5
WEIGHT	1150 g
BOOT TYPE	ISO 5355 A, ISO 5355 C, GripWalk: ISO 23223 A, GripWalk Jr.: ISO 23223 C



ATTACK 11 MN DEMO

ARTICLE NUMBER
114457 - solid black, W/O Brake [F]
114458 - solid black, Brake [F] 95mm
114459 - solid black, Brake [F] 110mm

PRODUCT FEATURES
FR PRO3 Toe, AFS Metal MN, SX FR Heel

PRODUCT DETAILS

STAND HEIGHT	29,5 mm
DIN	3 - 11
WEIGHT	2130 (*2430) g
BOOT TYPE	Alpine A: ISO 5355 A, Touring: ISO 9523 GripWalk: ISO 23223 A

* with BRAKE

PR 11 GW

ARTICLE NUMBER
114233 - solid black/White, Brake [G] 85mm
114234 - solid black/White, Brake [G] 90mm

PRODUCT FEATURES
SX Toe, AM (All Mountain) with TRP System, Full Diagonal, AFS - Anti Friction Slider GW, Powerrail, SXG Heel

PRODUCT DETAILS

STAND HEIGHT	31 mm
DIN	3 - 11
WEIGHT	1790 g
BOOT TYPE	Alpine A: ISO 5355 A, GripWalk: ISO 23223 A

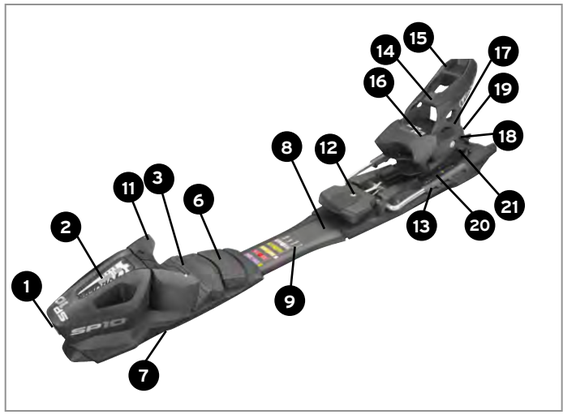
HEAD/TYROLIA RENTAL LINE 21.22 DATASHEET

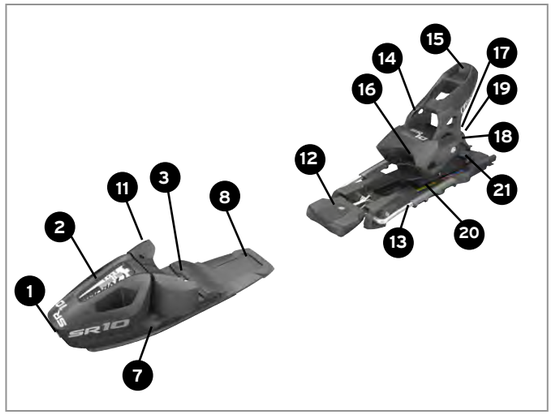
								TOE						HEEL					BOOT SOLE			
MODEL	RAMP ANGLE	Z - DIN	KG	LBS	SET-WEIGHT [G]	TEMPLATE	FEATURE	TYPE	SYSTEM		AFD	STAND HEIGHT [MM]	LENGTH ADJ. RANGE [MM]	TYPE	HEEL SYSTEM	BRAKE [CODE]	STAND HEIGHT [MM]	LENGTH ADJ. RANGE [MM]	SINGLE CODE	MONDO - POINT	LENGTH [MM]	DIN/ISO STANDARD
RACING																						
FREEFLEX DEMO 14 GW Brake 85 [D]	1,5	4-14	from 42	from 92	2650	FREEFLEX DEMO	FREEFLEX DEMO	RX	Full Diagonal		AFS GW	19,5	60	NX	Standard	Power Brake² LD 85 [D]	21,0	60	A - 5	22 - 35	263-386	A/GW A
AAA-SERIES																						
ATTACK 14 MN DEMO W/O Brake [F]	3-7	4-13	from 42	from 92	2490*	Attack Demo	ATTACK DEMO PR	FR PRO3 MN	-		AFS metal	25-29	60	NX FR	Standard	w/o Brake [F]	32,0	60	q - 5	22 -34	259-382	A/GW A/T
ATTACK 14 MN DEMO Brake 95 [F]																Powerrail Brake² LD 95 [F]						
ATTACK 14 MN DEMO Brake 110 [F]																Powerrail Brake² LD 110 [F]						
ATTACK 11 MN DEMO W/O Brake [F]		3-11	from 31	from 67	2370*									SX FR		w/o Brake [F]			q - 4			
ATTACK 11 MN DEMO Brake 95 [F]																Powerrail Brake² LD 95 [F]						
ATTACK 11 MN DEMO Brake 110 [F]																Powerrail Brake² LD 110 [F]						
SYSTEM																						
PR 11 GW Brake 85 [G]	3,0	3-11	from 31	from 67	1790	-	POWERRAIL	SX	Full Diagonal		AFS GW	28,0	60	SX FR	Standard	Powerrail Brake SL 85 [G]	31,0	60	q - 3	21 - 34	255-378	A/GW A
SLR 9.0 GW Brake 85 [H]	2,0	2,5-9	from 26	from 57	1420		SLR PRO	SX Lite				26,0		SXG Lite		SL Brake LR 85 [H]	28,0		a - L f - T l - Z	14 - 26 17 - 30 18 - 34	XS:183 - 307/ XM:215 - 339/ XL:239 - 363	
JRS 7.5 GW CA RENT Brake 78 [H]	1,5	2-7,5	22-84	48-187	1220	JRS/SLR PRO	JRS	SX Jr.			AFS GW Jr.	25,5	48	SX Youth		SL Brake LR 78 [H]	27,0	48	a - G g - O n - U	14 - 25 17 - 29 19 - 33	S:191 - 290/ M:233 - 322/ L:247 - 346	A/C/GW A/ GW C
JRS 4.5 GW CA RENT Brake 80 [I]	1,5	0,75-4,5	10-48	22-105	1150			SX Kid						SX Youth		SX Kid Brake SLR/JRS EASY 80 [I]						
SYMPRO																						
SP 13 GW W/O Brake [D]	5,0	4-13	from 42	from 92	2620	SP 2003 W	SYMPRO	RX	Full Diagonal		AFS GW	26,0	64	RENT	Rental	w/o Brake [D]	31,0	60	A - 6	22 - 36	263 - 391	A/GW A
SP 10 GW Brake 85 [D]		2,5-10	from 26	from 57	2580			SX								Power Brake² LD 85 [D]						
SP 10 GW Brake 95 [D]					2580											Power Brake² LD 95 [D]						
SP 10 GW W/O Brake [D]					2580*											w/o Brake [D]						
SP 10 GW Brake 110 [D] (6mm screws)					2580											-						
SYMRENT																						
SR 10 GW Brake 85 [D]	6,5	2,5-10	from 26	from 57	2200	SR 2003 W	SYMRENT	SX	Full Diagonal		AFS GW	15,5	-	RENT	Rental	Power Brake² LD 85 [D]	22,0	84	A - V	22 - 31	263 - 351	A/GW A
SR 4.5 GW CA Brake 80 [K]	0	0,75-4,5	10-48	22-105	1330			SX Kid			AFS GW Jr.	15,0		SX Youth		SX Kid Brake EASY 80 [K]	15,0	52	b - o J - w/F	15 - 21	199 - 255 (231 - 287)*	A/C/GWA/ GW C
BYS / HRS																						
BYS 10 GW Brake 85 [D]	5,5	2,5-10	from 26	from 57	1890	92 W / 92 FAT	BYS	SX	Full Diagonal		AFS GW	15,5	-	RENT	Standard	Power Brake² LD 85 [D]	21,0	-	Black Yellow Silver	23.5 -26.5 27.5 - 30.5 31.0 - 34.0	289 329 365	A/GW A
SX 4.5 R GW CA Brake 74 [K]	0	0,75-4,5	10-48	22-105	1220	94 W	94W	SX Kid			AFS GW Jr.	15,0		SX Youth		SX Kid Brake 74 [K]	15,0	-	red triangle blue square black diamond white circle	15.5 - 16.5 17.5 - 18.5 19.5 - 20.5 21.5 - 22.5	205 225 245 265	A/C/GW A/ GWC
PROMO																						
SRM 10 GW Brake 85 [D]	6,5	2,5-10	from 26	from 57	2200	SR 2003 W	SYMRENT	SX	Full Diagonal		Teflon	15,5	-	RENT	Rental	Power Brake² LD 85 [D]	22,0	84	A - V	22 - 31	263 - 351	A/GW A

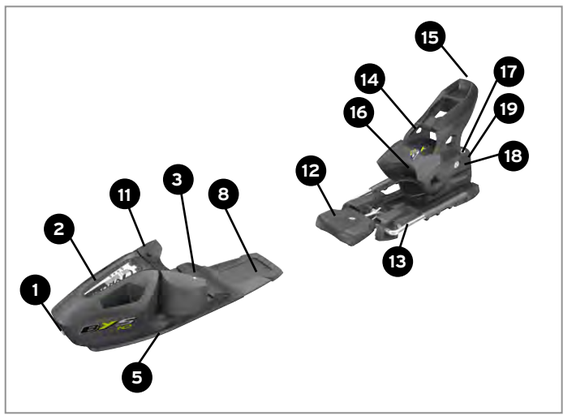
* Weight with brake

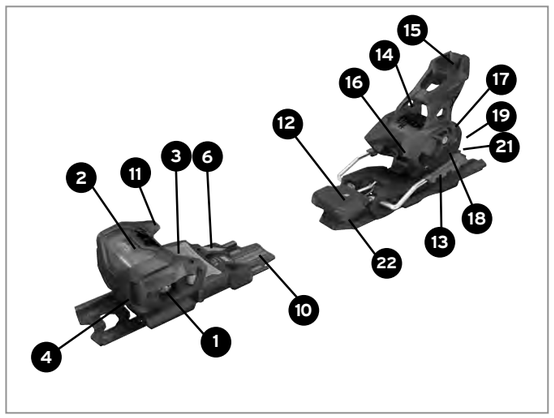
Sparepart: 162970
A: Alpine Adults, A/C: Alpine Adults and Alpine Children,
A/GW A: Alpine Adults and GripWalk Adults,
A/C/GW A/ GW C: Alpine Adults, Alpine Children, GripWalk Adults and GripWalk Children,
A/GW A/T: Alpine Adults, Gripwalk Adults and Touring T

REFERENCE CHART - RENTAL









TOE PIECE

1. Adjustment screw
2. Visual indicator
3. GW AFS/AFD
4. Adjustment screw - AFS/AFD
5. Colored base plate (BYS)
6. One Touch lever
7. Base plate
8. Bar code area
9. Single code scale
10. Attack Demo scale
11. Wings

HEEL PIECE

12. Brake pedal
13. Brake arms
14. Heel lever
15. Heel cover
16. Sole lug
17. Visual indicator
18. Heel housing
19. Adjustment screw
20. Single code scale
21. One touch lever
22. Attack Demo scale

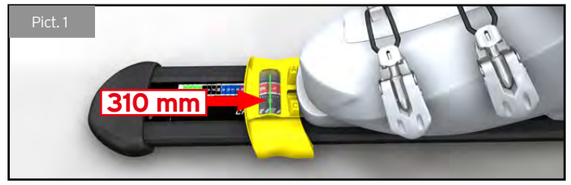
ATTACK MN DEMO

TYROLIA:
ATTACK 14 MN DEMO
ATTACK 11 MN DEMO

MOUNTING - BINDINGS

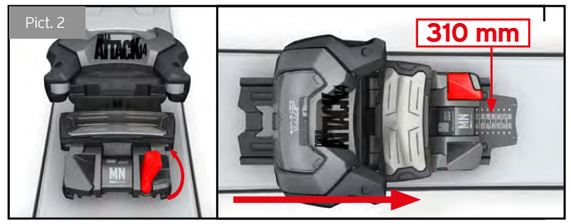
Mounting and adjusting the ATTACK MN DEMO Bindings is extremly simple and can be done without any additional tool. First of all, make sure that the boot is satisfying the international standards and has no functional damage. Take the binding out of the box and follow the steps on the instruction leaflet. Determine the boot sole length with the HEAD/TYROLIA rental caliper (A. No.: 162617).

Pict. 1



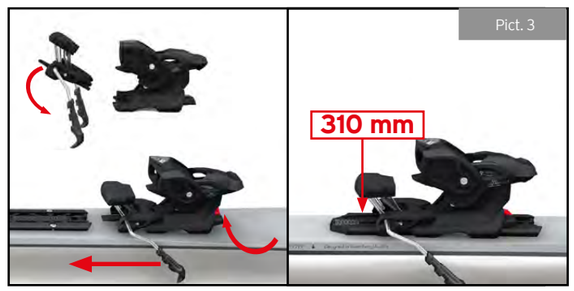
Open the one-touch lever and slide the toe unit from thefront on the track and lock it at the appropriate boot sole or single code marking.

Pict. 2



Now you can mount the heel unit. Hook the brake into the heel, open the one touch lever, slide the heel unit from the back to the track and lock it at the appropriate boot sole marking.

Pict. 3



SOLE HEIGHT ADJUSTMENT

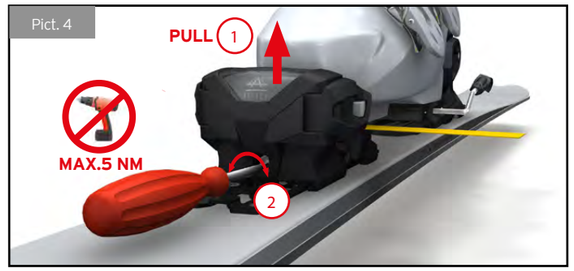
The new ATTACK MN DEMO provides full MN adjustability for Alpine skiboots (ISO 5355 TYPE A), GripWalk (ISO 23223 TYPE A) and Touring skiboots (ISO 9523).

	ISO 5355 Alpine Adult (A)	ISO 23223 GripWalk (GW)	ISO 9523 Touring (T)
Attack MN DEMO	X	X	X

X...suitable O...not suitable

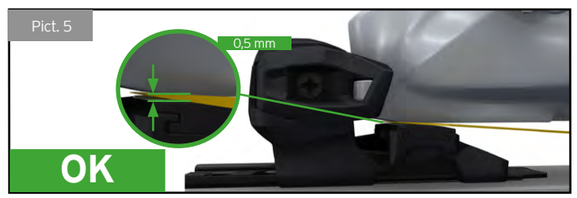
For proper function the height of the AFD/AFS must be adjusted to the height of the boot sole. HEAD/TYROLIA recommends using the "TYROLIA boot height adjustment tester" (Art. No. 162983) to get the ideal distance of 0.5 mm between boot and AFS. Turning the adjustment screw at the toe moves the AFD up or down. Place the tester on the AFD and enter the boot in the binding. Lift the tip of the boot to take out the play of the toe. Adjust the AFS with the screw in the front so that the tester is still moveable but with a slight resistance.

Pict. 4



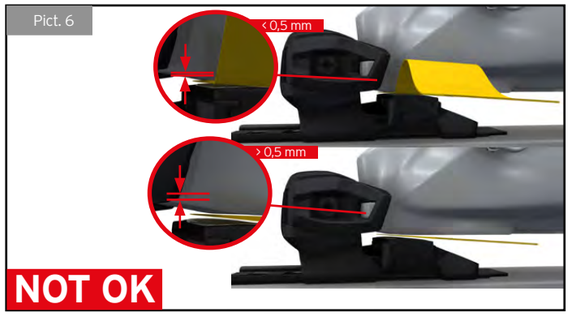
In this case, you reach a gap of 0.5 mm between AFD and the boot.

Pict. 5



If the tester is not moveable, the gap is smaller than 0,5 mm, if you feel no resistance the gap is more than 0.5 mm. In both cases you need to re-adjust the AFD.

Pict. 6



FORWARD PRESSURE

Check the forward pressure, by placing a boot into the binding. If you have followed all mounting steps correctly, the indicator should rest in the marked area and you are ready to go.

Pict. 7

If you have too much or not enough forward pressure, check the settings and if necessary re-adjust the heel. Then close the lever and check the forward pressure again. Now it should be okay!

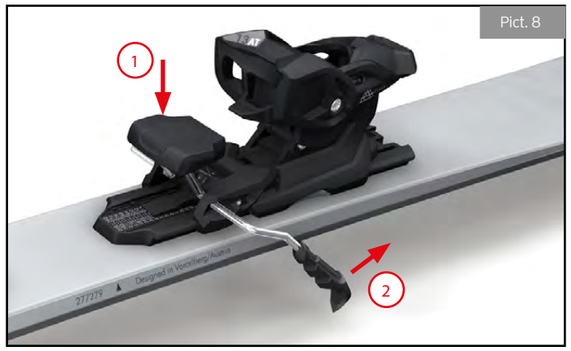
ADJUSTMENT OF THE RELEASE VALUES

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 105 NM at the toe and 452 NM at the heel are higher than the international standards recommend and are used solely at the skier's own risk!

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 pedal (1) by hand. The brake arms (2) must open to the braking position when the brake pedal is released.

Pict. 8



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.

FINAL CHECK

- Was the proper mounting point selected?
- Did it pass the functional brake test?
- Are all screws fastened tightly?
- Was the boot sole height adjusted correctly?
- Is the forward pressure properly adjusted?
- 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?

HEAD/TYROLIA POWERRAIL PR SYSTEM

The POWERRAIL system meets the demands of adult skiers, while being perfectly suited for both retail and rental sectors! HEAD/TYROLIA offers different types of bases. All of them are indicated with a PR in their name. The PR Bases are suited for boot sole length of 255 up to 382 mm. All PRD, PRW and PR bindings can be combined with all types of Powerrail bases:

HEAD:
PRD 14 GW PRD 12 GW PR 11 GW

TYROLIA:
PRW 12 GW PRD 12 GW PRW 11 GW
PR 11 GW PRD 11 GW PR 10 GW PROMO

NOTE: HEAD/TYROLIA offers different types of brakes for POWERRAIL bindings. Refer to the brake overview on page 39 for brake and binding compatibility.

The description of the brakes always includes a number and a color-letter code. This number stands for the maximum ski width in the brake area and not in the ski center! The color letter code defines the brake segment.

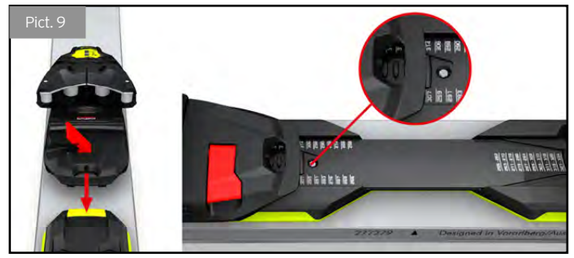
MOUNTING - BINDINGS

Make sure that the boot is satisfying the international standards and has no functional damage. Take the binding parts out of the box and follow the steps on the instruction leaflet. Determine the boot sole length with the HEAD/ TYROLIA rental caliper (Art. No. 162617).

MODEL	BOOT SOLE RANGE
SUPERFLEX PR BASE	259 - 382 mm
ALLRIDE PR BASE	255 - 378 mm
MULTIFLEX PR BASE	255 - 378 mm
TWIN PR BASE	255 - 378 mm
TRIFLEX PR BASE	255 - 378 mm
LYT PR BASE	259 - 382 mm

FIRST INSTALLATION
Open the toe-lever and slide the toe on the rail from the front. Lock at the appropriate boot sole length and close the lever.

Pict. 9



Now hook the brake into the heel housing.

Pict. 10

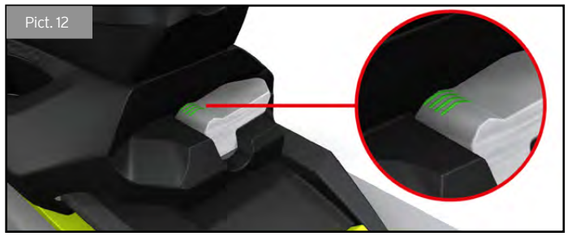
Then open the heel lever, slide the heel on the rail from the back and lock it at the appropriate boot sole marking.

Don't forget to check that the lever is closed again.

Pict. 11

Finally, check the forward pressure, by placing a boot into the binding. If you have followed all steps correctly, the indicator should rest in the marked area.

Pict. 12



If you have too much or not enough forward pressure, check the settings and if necessary, adjust slightly at the heel and the toe. Then close the levers and check the forward pressure again. Now it should be okay.

ADAPTATION:
Once the binding is mounted onto a ski it is very easy to adjust it to another boot sole length. Just open the levers and slide toe and heel to the desired length mark. Finally close the levers and check forward pressure as described before.

MAINTENANCE & SERVICE

To provide unaffected long-term performance of the PR binding models, the toe and heel guides can be exchanged or retrofitted. These features ensure that steady function is guaranteed, even after massive use in rental. (For more details see page 35).

ADJUSTMENT OF 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 at heel and toe unit. HEAD/TYROLIA recommends adjusting these settings with a manual screwdriver. Do NOT use a screw shooter. We also 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 105 NM at the toe and 452 NM at the heel are higher than the international standards recommend and are used solely at the skier's own risk!

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 pedal (1) by hand. The brake arms (2) must open to the braking position when the brake pedal is released (Pict. 13).

Pict. 13

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.

FINAL CHECK

- Functional brake test passed?
- 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?

HEAD/TYROLIA JRS RENT SYSTEM

HEAD:
JRS RENT BASE (S / M / L)

TYROLIA:
JRS RENT BASE (S / M / L)

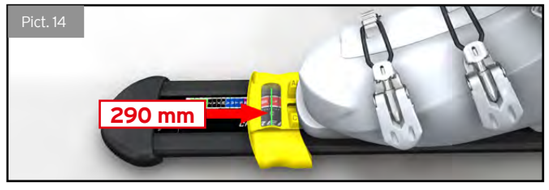
The JRS Bases are available in three sizes and cover sole lengths ranging from 191 to 346 mm. All JRS Bindings are compatible with all JRS Bases.

MODEL	BOOT SOLE RANGE
JRS Base (S)	191 - 290 mm
JRS Base (M)	223 - 322 mm
JRS Base (L)	247 - 346 mm

MOUNTING - BINDINGS

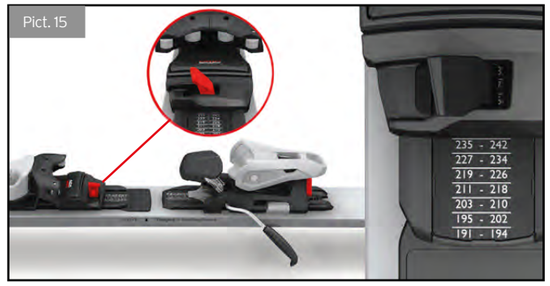
Mounting and adjusting the JRS bindings is extremely simple and can be done without any additional tool.
Make sure that the boot meets the international standards and is free of any functional damage. Take the binding parts out of the box and follow the steps on the instruction leaflet. Determine the boot sole length with the HEAD/ TYROLIA rental caliper (Art. No. 162617).

Pict. 14



First you have to open the toe-lever and slide the toe on the rail from the front. Lock at the appropriate boot sole length and close the lever (Pict. 15).

Pict. 15

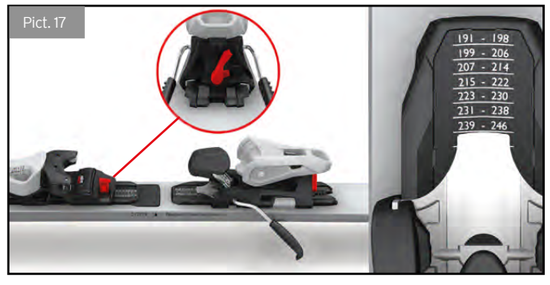


Now hook the brake into the heel housing (Pict. 16).

Pict. 16

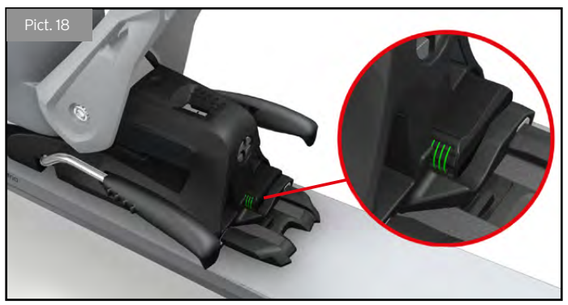
Then you can open the lever and slide the heel on the rail from the back! Simply lock it at the appropriate boot sole marking by closing the lever - and you are ready to go! (Pict. 17)

Pict. 17



Finally, check the forward pressure, by placing a boot into the binding. If you have followed all steps correctly, the indicator should rest in the marked area (Pict. 18).

Pict. 18



If you have too much or not enough forward pressure, check the settings at first. If necessary, adjust slightly at the heel and the toe. Then check the forward pressure again. Now it should be okay.

AFS GW JUNIOR ON DIN 7.5 GW CA AND DIN 4.5 GW CA MODELS

The SX Junior and SX Kid lines are suitable for both Alpine Adult (ISO 5355 TYPE A) and Children (ISO 5355 TYPE C) boots as well as GripWalk (ISO 23223 TYPE C & TYPE A) boots: the innovative mechanical Anti Friction Slider (AFS GW Jr.) automatically adjusts to the boot sole height, A/C standards, GripWalk standards as well as height differences due to icing up, dirt or boot wear (Pict. 19).

Pict. 19

If you want to increase the stability of your junior binding in combination with children (type C) boots, you can replace the standard AFS with a vertically blocked AFS (Art. No. 163113), which is for children (type C) boots and GripWalk Junior boots ONLY. All you have to do is to separate the standard slider from the base plate. Afterwards you can simply click in the spare slider (Pict. 20).

Pict. 20

ADJUSTMENT OF 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 at heel and toe unit. HEAD/TYROLIA recommends adjusting these settings with a manual screwdriver. Do NOT use a screw shooter. We also re-commend 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 105 NM at the toe and 452 NM at the heel are higher than the international standards recommend and are used solely at the skier's own risk!

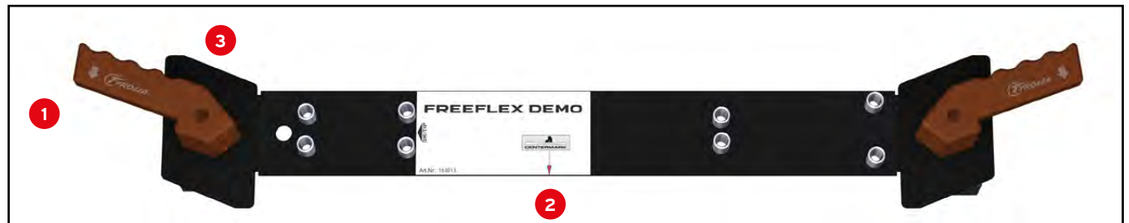
FUNCTION CHECK

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 pedal by hand. The brake arms must open to the braking position when the brake pedal is released.
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 (JRS 7.5 GW CA RENT, JRS 4.5 GW CA RENT - 10 mm).

FINAL CHECK

- Functional brake test passed?
- 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?

DRILL TEMPLATE FREEFLEX DEMO



Drill Template FREEFLEX DEMO Art.No. 163013 for ski widths from 59 to 108mm

COMPATIBILITY

Presently the drill template FREEFLEX DEMO can be used for:

HEAD:
FREEFLEX DEMO 14 GW

TYROLIA:
FREEFLEX DEMO 14 GW

All TYROLIA adult bindings come with 8 mm penetration screws and can be used with skis of groups G1 and G2.
The FREEFLEX DEMO 14 GW bindings are fully GripWalk compatible and can be used with adult Alpine ski boots (ISO 5355 TYPE A) and GripWalk ski boots (ISO 23223 TYPE A)*.
No further adjustment to the boot sole type is necessary.
Every GripWalk compatible binding is indicated with the GripWalk logo on the AFS and also in the Product name with „GW". Drill template FREEFLEX DEMO can be used for ski widths from 59 mm to 108 mm. For other skis use the template adapter set (Art. No. 162569). With this adapter set, you can mount skis from 45 mm to 132 mm.
NOTE: TYROLIA offers different types of brakes. Refer to the brake overview on page 39 for brake and binding compatibility. The description of the brakes always includes a number and a color-letter code. This number stands for the maximum ski width in the brake area and not in the ski center! The color letter code defines the brake segment.

MOUNTING

MOUNTING ON FLAT SKIS

POSITIONING THE DRILL TEMPLATE

Open the clamping jaws (3) by rotating the clamping handles (1) and then place the template on the ski. Align the boot midsole indicator (2) for the appropriate binding model 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 (1) and attach the template firmly to the ski.
NOTE: Some ski manufactures do not use the center of boot sole location method. Always follow the ski manufacturer's instructions.

DRILLING THE HOLES

If not otherwise specified by the ski manufacturer, for all FREEFLEX DEMO models use a 4.1 Ø x 9.0 mm drill bit for ski groups G1 and G2.

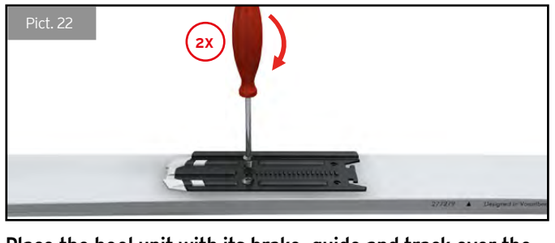
Pict. 21

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.

MOUNTING

Place the metal toe track over the front holes and fasten the two front screws (Pict. 22).

Pict. 22



Place the heel unit with its brake, guide and track over the holes, connect the Freeflex band with the metal toe track and tighten the screws in a cross pattern (Pict. 23).

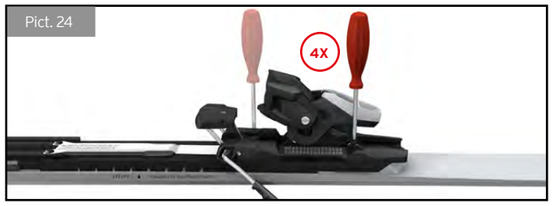
*except the boot models K2 BFC (2018 and older)

Pict. 23

MOUNTING ON PLATES

If you want to mount the Freeflex Demo bindings onto a HEAD/TYROLIA plate, you don't need a drill template and drill holes.
NOTE: For mounting the Freeflex Demo bindings onto the Raceplate WCR SHORT remove the front dampener of the metal toe track. Simply place the metal toe track over the holes indicated with the SP / DEMO marking. Tighten the two front screws. Place the heel unit over the holes with the SP / DEMO markings, connect the Freeflex band with the metal toe track and tighten the remaining screws in a cross pattern (Pict. 24).

Pict. 24



ADJUSTMENT

Make sure that the boot meets the international standards and is free of any functional damage. Determine the boot sole length with the HEAD/TYROLIA rental caliper (Art. No. 162617). Open the one-touch latch and slide the toe piece on from the front. Adjust the toe piece to the desired position and close the latch. Push the one-touch lever of the heel forward and slide the heel into the correct position. Let go of the lever and make sure that the heel snaps into position (Pict. 25).

Pict. 25

FORWARD PRESSURE CONTROL

Place a suitable reference boot in the binding using the mm-scale for length adjustment and close it (Pict. 26). Then check the indicator (see pict. 27) located at the rear end of the heel piece. With the boot inserted, the pointer should rest in the middle of the marked area. The Freeflex Demo 14 GW binding is fully GripWalk compatible, no further height adjustment is necessary.

Pict. 26

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

Pict. 27

FUNCTION CHECK

Before the newly mounted ski equipment is rented, perform a complete functional check.
NOTE: In some countries rental equipment needs 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 down by hand. The brake arms must close and open automatically to the braking position when the step-on plate is released.

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.

FINAL CHECK

- Has the proper mounting point been selected?
- Have all screws been fastened tightly?
- Has the forward pressure setting been adjusted?
- Has at least one full adjustment been made using a representative reference boot, including Release-Retention setting and momentum test?
- Was the functional check successfully completed?
- Was the functional brake test successfully completed?

HEAD/TYROLIA RENTAL SYSTEMS - SP, SR & JRS RENT

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.

TYROLIA'S SHOP FRIENDLY RENTAL DESIGN FEATURES:

- Easy mounting: This means fewer mistakes and reducedset-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 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 - THE BINDINGS THAT HELP YOUR HIGH PERFORMANCE SKI SET-UP:

SP 10 GW

- Hand lever-adjusted heel (60 mm) and toe (64 mm)
- 7-toe positions
- DIN-ranges from 2.5 up to 10 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
- Optimal for Carving skis, minimized deviation between ski and boot mounting point
- Fully GripWalk compatible – no further adjustment to the boot sole type necessary

JRS 7.5 GW CA RENT
JRS 4.5 GW CA RENT

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–G" for ski boots with sole lengths from 191 to 290mm (JRS 4.5 GW CA RENT - Base S) and
- "g–U" for ski boots with sole lengths from 223-346mm (JRS 7.5 GW CA RENT - Base M, L)
- The Single Code in lowercase letter refers to children's boots, whereas with capital letter to type A boots (Adult)
- „ONE TOUCH" hand lever adjustment for toe and heel
- Replaceable brake
- Diagonal toe
- Bar Code Holder
- For skis, groups G3 & G4
- DIN range 0.75 up to 7.5
- Fully GripWalk Junior compatible – compatible with adult alpine and GripWalk skiboots as well as childen alpine and GripWalk Junior ski boots, no height adjustment neccessary

SYMRENT:

SR 10 GW
SRM 10 GW

A technically proven workhorse for the discerning skier who rents

- 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
- Replaceable brake
- Fully GripWalk compatible - no further height adjustment necessary

SR 4.5 GW CA
SRM 4.5 GW CA

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: 162970
- "ONE TOUCH"- Hand lever adjustment of the heel
- Replaceable brake
- Easy to open, easy to close
- For skis, groups G3 & G4
- DIN range 0.75 up to 4.5
- Fully GripWalk Junior compatible - compatible with adult alpine and GripWalk skiboots as well as childen alpine and GripWalk Junior ski boots, no height adjustment neccessary

ADJUSTMENT:

If the boot is already coded, you can use the SINGLE CODE, if not, measure the boot using the rental caliper to determine the SINGLE CODE. For Sympro toes open the ONE TOUCH hand lever (Pict.28) and slide the toe piece to the desired single code position on the track. This will center the boot on the ski. Close the lever by hand and make sure that the lever snaps into place completely at the selected single code. It may be necessary to slightly slide the toe forward or backward.

Pict. 28

To adjust Sympro or Symrent heels to the desired SINGLE CODE use thumb and forefinger to push down on the ONE TOUCH hand lever and slide the heel piece to the correct single code setting. Release the lever and make sure that the heel piece locks in the selected position.
NOTE: Always remove the boot from the binding before adjusting.

Pict. 29

Place a suitable reference boot in the binding using the SINGLE CODE for length adjustment and close it. Then check the indicator (see Pict. 30) located at the rear end of the heel piece. With boot inserted the pointer should rest in the middle of the marked area.
NOTE: There is no need to insert the boot and check the forward pressure in the adjustment process if SINGLE CODE is used (Head boots with single code marking or all type of boots measured and marked with spare single code stickers)!

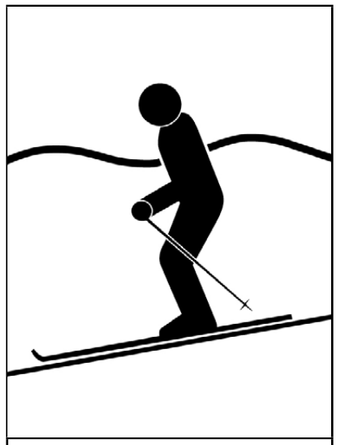
Pict. 30

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 at heel and toe unit. HEAD/TYROLIA recommends adjusting these settings with a manual screwdriver. Do NOT use a screw shooter. We also 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).

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.



TYPE I

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

SKIERS NOT CLASSIFIED AS TYPES I OR III

TYPE II

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

TYPE III

Fast skiing on slopes of moderate to steep pitch.

Skiers who designate themselves as Type III receive higher than average release/ retention settings. This corresponds to decreased releas- ability 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.

NOTE:
If the skier reports release/retention problems see the chapter "trouble shooting release/retention problems" 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.

RENTAL TECHNOLOGY

GripWalk COMPATIBILITY

The complete TYROLIA Rental binding range is GripWalk and GripWalk Junior compatible. All bindings can be used with Alpine (ISO 5355 TYPE A & C) and GripWalk ski boots (ISO 23223 TYPE A & C).

TYROLIA SYMRENT SYSTEM

The TYROLIA SYMRENT (SR) bindings are ideal for mounting on any rental ski. The mobile heel can be adjusted simply and very quickly to almost any size of a boot.

TYROLIA ONE-TOUCH-SYSTEM

The innovative One-Touch-System used for the TYROLIA Rental bindings ensures the simplest possible operation and length adjustment of toes and heels. Because – especially in the Rental sector – time is also money!

BARCODE HOLDER

The TYROLIA JRS 7.5 GW CA RENT and JRS 4.5 GW CA RENT Set come with a barcode holder.
An additional barcode holder can be retrofitted to all other JRS Bases.

TYROLIA SYMPRO SYSTEM

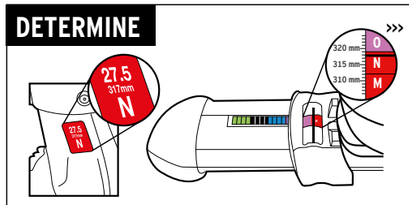
The TYROLIA SYMPRO (SP) bindings are for any rental ski without integrated system. The length of the toe and heel can be adjusted with only a few easy steps for fast on-hill adjustment.

TYROLIA RENT HEEL AND SX TOE

The TYROLIA Rent heel features improved ergonomics, resistance and better protection against abrasion plus an optimized scale window – thus combining visual quality with safety and stability. Most of the Rental binding models are equipped with the SX toe with improved kinematics and the proven Rent One-Touch–System, optimized and much appreciated for rental purposes.

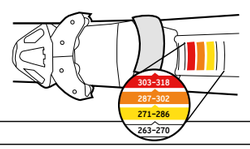
TYROLIA Single Code

DETERMINE



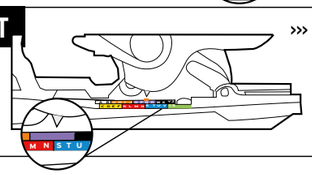
››› IF THE BOOT IS ALREADY CODED YOU CAN USE THE SINGLE CODE, IF NOT, MEASURE THE BOOT WITH THE MEASURING TOOL TO DETERMINE THE SINGLE CODE.

ADJUST



››› ADJUST THE TOE TO THE DESIRED SINGLE CODE COLOR, THIS WILL CENTRE THE BOOT.

SET



››› SET THE HEEL TO THE DESIRED SINGLE CODE. THERE IS NO NEED TO INSERT THE BOOT TO CHECK FORWARD PRESSURE. IT WILL BE RIGHT THE FIRST TIME, EVERY TIME.

NOTES

RELEASE/RETENTION ADJUSTMENT TABLE

NOTE:
The initial indicator values found in this table are only the starting point in the binding setting process.
The initial values may need to be modified in order to achieve the correct measured release values.

					mm							
					1	2	3	4	5	6	7	8
					Single Code							
								BYS				
kg (lbs)	cm (ft 'in")	Skier Code	Mz (Nm)	My (Nm)	a - i	j - n	o - s/B	t/C -G	H - L	M - Q	R - V	V - 6
			5[a]	18[a]	≤ 230	231-250	251-270	271-290	291-310	311-330	331-350	≥ 351
10-13 kg (22-29 lbs)		A	8	29	0,75	0,75	0,75					
14-17 kg (30-38 lbs)		B	11	40	1,00	0,75	0,75	0,75				
18-21 kg (39-47 lbs)		C	14	52	1,50	1,25	1,25	1,00				
22-25 kg (48-56 lbs)		D	17	64	2,00	1,75	1,50	1,50	1,25			
26-30 kg (57-66 lbs)		E	20	75	2,50	2,25	2,0	1,75	1,50	1,50		
31-35 kg (67-78 lbs)		F	23	87	3,00	2,75	2,50	2,25	2,00	1,75	1,75	
36-41 kg (79-91 lbs)		G	27	102		3,50	3,00	2,75	2,50	2,25	2,00	
42-48 kg (92-107 lbs)	≤ 148 cm (≤ 4'10")	H	31	120			3,50	3,00	3,00	2,75	2,50	
49-57 kg (108-125 lbs)	149-157 cm (4'11"-5'1")	I	37	141			4,50	4,00	3,50	3,50	3,00	
58-66 kg (126-147 lbs)	158-166 cm (5'2"-5'5")	J	43	165			5,50	5,00	4,50	4,00	3,50	3,00
67-78 kg (148-174 lbs)	167-178 cm (5'6"-5'10")	K	50	194			6,50	6,00	5,50	5,00	4,50	4,00
79-94 kg (175-209 lbs)	179-194 cm (5'11"-6'4")	L	58	229			7,50	7,00	6,50	6,00	5,50	5,00
≥ 95 kg (≥ 210 lbs)	≥ 195 cm (≥ 6'5")	M	67	271				8,50	8,00	7,00	6,50	6,00
		N	78	320				10,00	9,50	8,50	8,00	7,50
		O	91	380				11,50	11,00	10,00	9,50	9,00
		P	105	452						12,00	11,00	10,50
			121	520								
			137[b]	588[b]								

a...Lowermost tollerance limit
b...Uppermost tollerance limit

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.

2a. 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 (see page 73).

2b. 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.

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

BINDING ADJUSTMENT

EXAMPLE

A customer, age 35, 5'7" tall, weighing 140 pounds, who classifies herself a Type II Skier:

1. Using the skier's weight only, locate the appropriate SKIER CODE (answer: J).
2. Using the skier's height only, locate the appropriate SKIER CODE (answer: K).
3. If the SKIER CODE for height and weight are different, select the SKIER CODE closer to the top of the chart (answer: J).
4. Identify the Skier Type. The chart is designed for Skier Type I. For Type II, move down (towards the bottom of the chart) one SKIER CODE. For Type III, move down two SKIER CODES (answer: K).
5. Move up one SKIER CODE if the skier is age 50 or older or under 10 (answer: K).
6. Determine the boot sole length (for this example, 298 mm) and find the "Initial Indicator Value", the point where the SKIER CODE row and the Sole Length Column intersect (answer: 5 1/2).

DETERMINE THE SKIER CODE FOR THE FOLLOWING SKIERS:

Skier A: a type III skier, under 50 years old with a weight of 72 kg, a height of 168 cm

Skier Code	

Skier B: weighing 145 lbs, 5' 7" tall, under 50 years old and a type I skier

Skier Code	

Skier C: 170 cm tall, weighing 155 lbs, a type II skier and more than 50 years old

Skier Code	

Skier D: under 10 years old, 4' 7" tall, weighing 32 kg and a type III skier

Skier Code	

Using the above skier codes find the corresponding Release/Retention values for the following SINGLE CODES:

		Skier Code	Rel./Ret. Value
Skier A:	Single Code K		
	Single Code M		

		Skier Code	Rel./Ret. Value
Skier B:	Single Code Z		
	Single Code M		

		Skier Code	Rel./Ret. Value
Skier C:	Single Code N		
	Single Code G		

		Skier Code	Rel./Ret. Value
Skier D:	Single Code F		
	Single Code I		

Note:

If the skier reports release/retention problems see the chapter "trouble shooting release/retention problems", page 44 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.

BOOT SOLE TYPES - ISO STANDARDS AND COMPATIBILITY

1. BOOT STANDARDS

Actually there are three different boot sole standards on the market. The ISO 5355 (corresponding to binding standard ISO 9642) defines Alpine boots for adults and children, the ISO 23223 defines Alpine boots with improved walking soles (GripWalk) and the ISO 9523 (corresponding to binding standard ISO 13992) defines a wide range of touring ski boots.

- **Alpine ISO 5355**
  - TYPE A Adults
  - TYPE C Children
- **Walk ISO 23223**
  - TYPE A GripWalk
  - TYPE C GripWalk Jr
- **Touring ISO 9523**
  - TYPE T

The new sub category (Walk) tries to combine the advantages of both previously existing standards:

- To offer more grip and better walkability compared to Alpine boots. A profiled sole made of softer material offers a superior walking grip and is less slippery than a standard ski boot sole. A rockered sole offers a more comfortable natural roll motion.
- To also offer better skiability and increased safety compared to Touring boots (hard contact area, stiffer material, Alpine boot design) and the same safe release function and power transmission as an alpine boot.

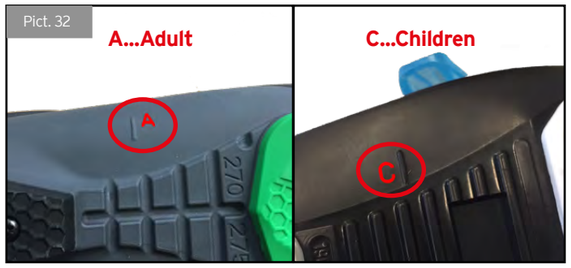
2. BOOT IDENTIFICATION

In general, all boots should be marked with the corresponding standard. In most cases you will find the indication on the sole pads of the boot.

ALPINE BOOTS ISO 5355

Pict. 31

Pict. 32

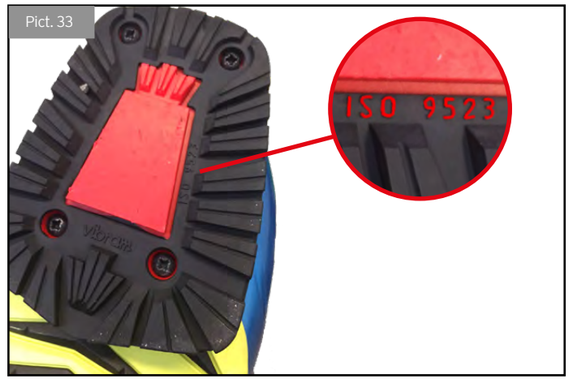


TOURING BOOTS ISO 9523

In case there is no other marking, in addition to ISO 9523, the boot is a regular Touring boot. The boot will only work in bindings with AT compatibility.

.

Pict. 33



WALK BOOTS ISO 23223 TYPE A - GRIPWALK

To help identify a GripWalk boot the GripWalk icon and ISO marking (ISO 23223, but can be also ISO 9523 on older boots) are incorporated in the sole.

Pict. 34

Pict. 35

WALK BOOTS ISO 23223 TYPE C - GRIPWALK JUNIOR

o help identify a GripWalk Junior boot, the GripWalk Junior logo and ISO marking (ISO 23223, can be missing on older boots) are incorporated in the sole pads.

NOTE: The boot is also marked with a sticker placed in the toe area. (pict 35 – right side). The sticker comes from the factory on boots with pre-mounted GripWalk soles or it needs to be placed in the toe area if the pads are retrofitted.

GripWalk Junior Logo embossed in the front and rear sole pad

3. BOOT-BINDING COMPATIBILITY

In case of uncertainty, the dealer should check the instructions of use of the binding. It lists all compatible boot types:

E.G. FOR AN ATTACK GW	E.G. FOR AN ATTACK MN	E.G. FOR AN GW CA MODEL
This binding model can be used with ski boots that meet the following current industry standards - ALPINE TYPE A (ISO 5355) and GripWalk TYPE A (ISO 23223).	This binding model can be used with ski boots that meet the following current industry standards - ALPINE TYPE A (ISO 5355), GripWalk TYPE A (ISO 23223) and TOURING TYPE T (ISO 9523).	This binding model can be used with ski boots that meet the following current industry standards - ALPINE TYPE A and ALPINE TYPE C (ISO 5355), GripWalk TYPE A (ISO 23223), GripWalk TYPE C (ISO 23223)

BOOT - BINDING - COMPATIBILITY - CHART

The following chart shows the boot-binding compatibility of the current HEAD/TYROLIA binding line:

TYROLIA	ALPINE SKI BOOTS (ISO 5355)		WALK SKI BOOTS (ISO 23223)		TOURING SKI BOOTS (ISO 9523)
	TYPE A	TYPE C	(TYPE A) GRIP WALK	(TYPE C) GRIP WALK JUNIOR	NO FURTHER INDICATION
Binding without any indication*	X				
Binding marked „GW CA“ GRIP WALK CA	X	X	X	X	
Binding marked „GW“ GRIP WALK	X		X		
Binding marked „MN“ MN	X		X		X

*marking can be found in the product name and partly also on the binding

VISUAL BOOT INSPECTION

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”.

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?

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.

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.

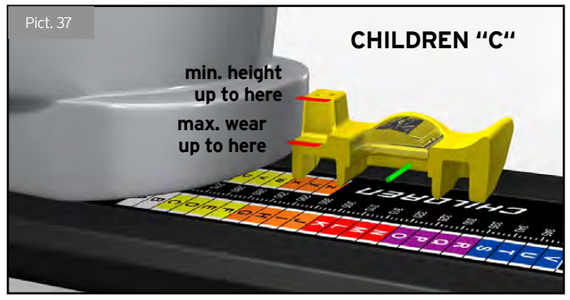
VERIFY BOOT SOLE DIMENSIONS

Ski boots must meet international standard specifications.

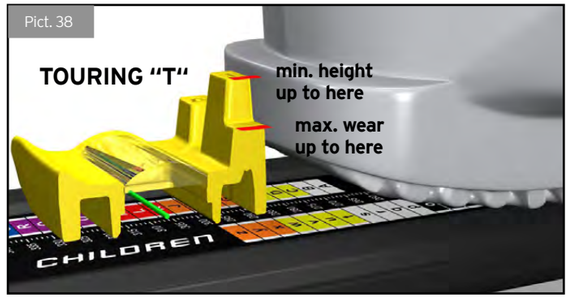
Use the HEAD/TYROLIA Boot Rental Indicator to determine whether wear is excessive. The most critical dimension for HEAD/TYROLIA bindings is the front surface and height of the boot toe. Any boots worn past the indicated amounts should be repaired or not used with HEAD/TYROLIA bindings.

Pict. 36

Pict. 37



Pict. 38

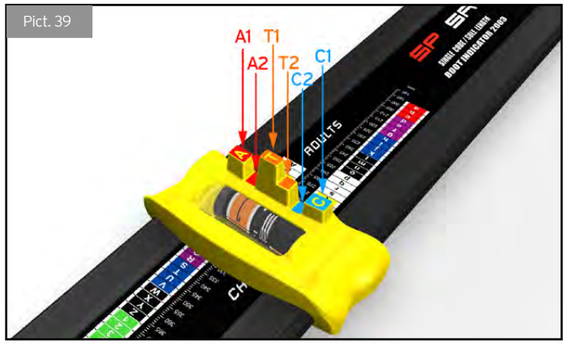


THE HEAD/TYROLIA BOOT INDICATOR ART. NO. 162617

This TYROLIA rental boot device is a multifunction-tool:

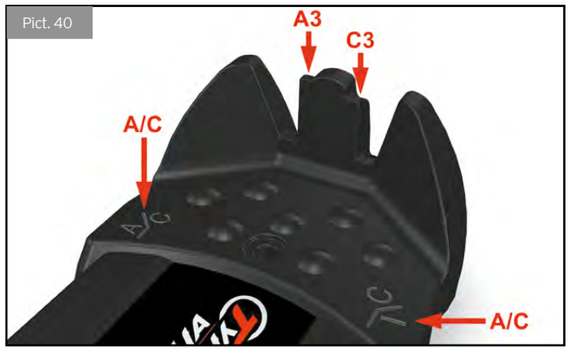
1. Sole length: Put the boot in the device and slide the toe stop up to the boot toe. Read sole length in the window, used for TYROLIA rental bindings: the SINGLE CODE.
   Boot sole wear: The standardized interfaces (contact boot sole with sole lugs) are important in the functioning of HEAD/TYROLIA bindings.
2. 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), Adult (A 2) or Touring (T 2) post (see Pict. 39).
3. 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), "Adult" (A1) or "Touring" (T 1) (see Pict. 39). Replace toe pads if worn.

Pict. 39



4. 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. 40).
5. The marks "A/C" help to select a "Child" boot from an "Adult" by indicating the standardized sole width.

Pict. 40



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 HEAD/ 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 HEAD/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 HEAD/ TYROLIA BINDING.

MAINTENANCE

VISUAL INSPECTION OF BINDINGS

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

- 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.

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.

HEAD/TYROLIA offers different brakes for almost every binding. Refer to the brake overview on page 39 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 rail-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.41).

Pict. 41

NOTE: TYROLIA offers different types of brakes. Refer to the brake overview on page 45 for brake and binding compatibility.

SPARE PART IDENTIFICATION

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.

CLEANING AND LUBRICATING

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

- Please use only HEAD/TYROLIA recommended lubrication:
  TYROLIA grease – 160052
  TYROLIA service – grease- spray – 162779
- 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.

11.1 LUBRICATING THE TOE PIECE 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.

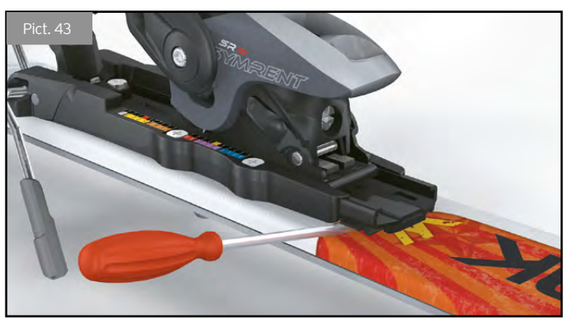
Pict. 42

11.2 LUBRICATING THE HEEL

ALL RENTAL BINDINGS

- Mark heel position, open the hand lever and slide the heel off backwards. At the SR 10 GW the guide lock has to be opened with a screwdriver (Pict. 43) to get the binding off.

Pict. 43



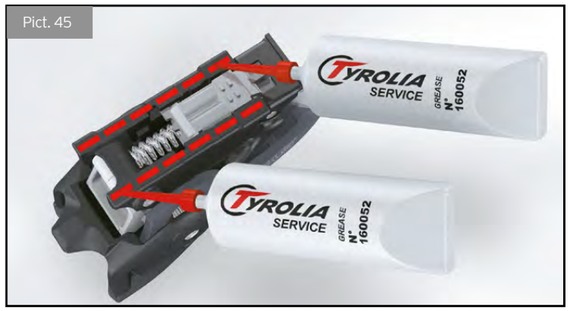
LUBRICATE

the edge of the release cam under the heel lug as shown in Pict. 44.

Pict. 44

- both sides of the heel track (inside) over the entire length
- the bearings of the opened hand lever on both sides (Pict. 45).

Pict. 45



- 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.

11.3. SR 4.5 GW CA AND SRM 4.5 GW CA LUBRICATE

- the contact areas between housing and the release cam on the frontside and the backside as shown in Pict. 46 and 47.
- both sides of the heel track (inside) over the entire length.

Pict. 46

- the guiding channel of the release setting adjustment screw (Pict. 47).

Pict. 47

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

11.4 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.

TROUBLESHOOTING

PROBLEM	POSSIBLE REASON	SOLUTION
Difficulty when stepping in	Non-standard boot sole	Test and select a new boot
	Forward pressure too high	Readjust according to instructions
	Brake jams	Clean & lubricate; replace
Brake does not retract	Obstruction under the brake	Remove, clean, lubricate
	Brake arm bent	Replace brake
	Ski obstructs brake	Replace the standard brake with a wider brake, accordingly to the ski width.
Boot fails pre-season test	Low-quality boot material	Replace boot
	Excessive wear or contamination	Clean, repair or replace boot
	Reference binding worn	Recheck reference binding with a boot that has passed
	Boot does not meet the required ISO standard	Replace boot
	Improper use of testing device	Check calibration and operating technique

PROBLEM	POSSIBLE REASON	SOLUTION
Excessive in-season class 1 or class 2 deviations	Excessive boot sole wear or contamination	Clean, repair or replace boot
	Inadequate binding service/ lubrication	Conduct recommended maintenance every 15–20 days of use
	Improper use of testing device	Check calibration and operating technique
	Indicator correction factor needed	Test system according to pre-season testing. Define indicator correction factor for subsequent adjustments
SINGLE CODE on binding interferes SINGLE CODE on boot	Incorrect template adjustment used when mounting	Set template to proper length and remount heel
	Incorrect track guide scale chosen for given mounting position	Choose binding according to given mounting position
SYMPRO toe wobbles in this track	Toe locking lever not properly engaged in locking holes	Remove toe, clean track. Be sure toe piece locks into place
Heel slides backwards when customer steps in	Rear locking lever not fully closed or boot length exceeds adjustment range	Lever should fully engage locking teeth in slots on track or boot sole length exceeds binding range
Binding fails pre-season test: release values too high or too low	Reference boot contaminated or worn	Clean or replace boot as indicated by clean vs. lube test result
	Forward pressure set incorrectly	Readjust to TYROLIA recommendations
	Incorrect or off-center-mounting	Check the template. Remount using template correctly
	Improper use of testing device	Check calibration and operating technique
Adult bootsole does not fit into Junior toe lug	Boot sole exceeds the standard tolerance	Clean AFD and boot sole, check standard tolerance, change boot
RACE PRO or POWERRAIL heel wobbles in the track	Heel glide inserts worn	Remove heel and replace plastic heel guides

HEAD/TYROLIA BRAKE LINE

1. POWER BRAKE² FOR [A], [D] AND [F]

HEAD/TYROLIA introduce the new Power Brake2 with a better retraction up to 30 mm in comparison to former brakes. The new brake retracts completely to the heel housing. HEAD/TYROLIA reduces the amount of brake models in PB segments [A], [D] AND [F] due to new width split – 85/95/110/130/150 (from 26 to 19 models). Power Brake2 feature a fully compatibility – new brakes match with old bindings and old brakes match with new bindings.

2. IDENTIFICATION AND NAMING SYSTEM

To make the brake-binding allocation as easy as possile, we are using a color coding system. In addition to the standard product labels of the spare brakes, a color-letter code is affixed on the brake boxes (single and master packaging). All bindings will come with a fresh new packaging and a newly designed label containing a corresponding color-letter code. Matching Brakes and bindings has become fast and easy. For a binding with a red color-code [A], the dealer just has to look for a Brake with a red sticker [A] in the proper width. The segmentation and colorcoding system can be found in the HEAD/TYROLIA Brake line down below. Also the nomenclature of all HEAD/TYROLIA brakes is standardized and includes all basic information. These nomenclature consist of a clear name, a number, what defines the maximum ski width at the mounting point and a letter, what specifies the brake cluster.

3. W/O BRAKE BINDING MODELS

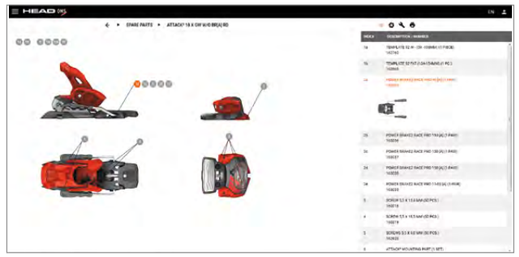
HEAD/TYROLIA is offering some binding models without brakes, (marked "w/o brake") to avoid brake exchanges later on and to provide suitable brakes for different ski widths. For these models you need to order appropriate brakes separately. Please find all available spare brakes in the HEAD/TYROLIA brake line overview below. Please make sure to select your Brakes according to your ski width as Brakes chosen too wide or too narrow may impair Brake function.

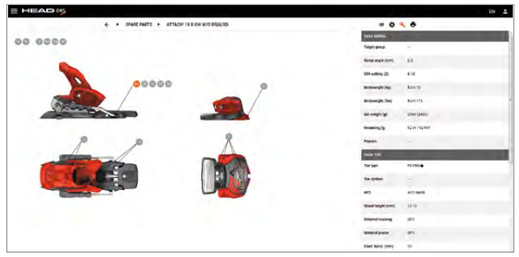
Brake Code	BINDING MODEL	ART. NO.	BRAKE MODEL/WIDTH
D	SP 13 GW	163044	Power Brake² LD 85 [D]
	SP 10 GW	163045	Power Brake² LD 95 [D]
	SR 10 GW	163046	Power Brake² LD 110 [D]
	BYS 10 GW	163047	Power Brake² LD 130 [D]
	FREEFLEX DEMO 14 GW	163048	Power Brake² LD 150 [D]
F	ATTACK 14 MN DEMO	163050	Powerrail Brake² LD 85 [F]
	PRD 11 GW	163051	Powerrail Brake² LD 95 [F]
		163052	Powerrail Brake² LD 110 [F]
		163053	Powerrail Brake² LD 130 [F]
G	ATTACK 11 MN DEMO	162943	Powerrail Brake SL 78 [G]
	PR 11 GW	163084	Powerrail Brake SL 85 [G]
		162944	Powerrail Brake SL 90 [G]
		163078	Powerrail Brake SL 100 [G]
		162985	Powerrail Brake SL 115 [G]
H	SLR 10 GW	162942	SL Brake LR 78 [H]
	SLR 9.0 GW	163085	SL Brake LR 85 [H]
	JRS 7.5 GW CA	162949	SL Brake LR 90 [H]
		163079	SL Brake LR 100 [H]
I	JRS 4.5 GW CA	163132	SX Kid Brake JRS/SLR EASY 80 [I]
K	SR 4.5 GW CA	162965	SX Kid Brake 74 [K]
	SRM 4.5 GW CA	163133	SX Kid Brake EASY 80 [K]
	SX 4.5 R GW CA		

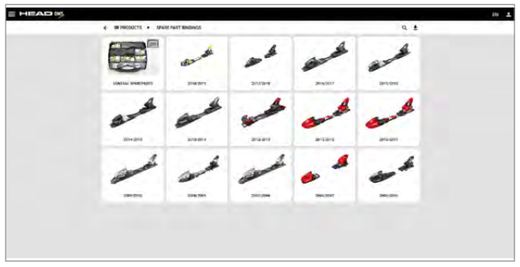
JUST ONE KLICK

SEARCHING FOR SPARE PARTS AND TECHNICAL DATA AS SIMPLE AS POSSIBLE

The HEAD/TYROLIA OMS Spare Part Management offers all relevant information about ski bindings, technical data and their parts at a glance – and just one click away. Extensive information is available via the new OMS spare part system: Starting with the appropriate drill template right up to screws and spare parts related to a specific binding model, for example different brake types – plus, all parts can be directly identified by model. Pictures and colored marks provide simple navigation tools and easy recognition of selected parts.







LOGIN

Type in http://oms-winter.head.com and you are ready to go...
User: spare_tyrolia
Password: omsnew

TWO DIFFERENT MODES:

You may navigate through the Spare Parts OMS via two different modes:
1. Product view mode
2. Spare part view mode
With the "product view" mode, all existing spare parts related to a specific binding model can be identified. With the "spare part view" mode, all spare parts are listed with their designated use.

SPARE PART VIEWER:

The "sparepart viewer" explains all spare parts in detail (text and pictures) and shows the appropriate item number, description and order quantity. Colored bars and marks of the requested part make navigation extremely simple and easy.

TECHNICAL DATA:

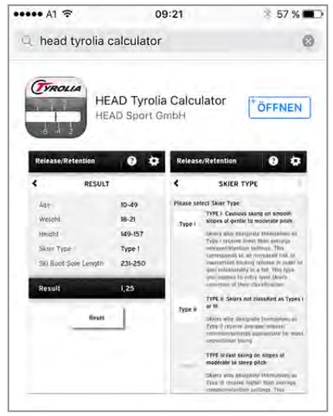
In the "product view" mode, technical data is available as additional information. You may access this data by clicking on the spanner symbol. You will find this symbol in the spreadsheet between the picture preview symbol and the symbol which opens the spare part viewer (the toothed wheel symbol).
You can access the technical data sheet of one specific binding model, or open the technical data catalogue for all models per line and season. Technical Data for all lines (HEAD and TYROLIA) from season 2004/2005 up to the current line is available online.

DOWNLOAD AREA

In the Marketing Tools folder, you will find downloads of the current HEAD/TYROLIA catalogues and technical manuals.

ONLINE HELP:

A HELP Document is also available online. You will find it in the OMS in the top right corner.



CALCULATOR APP

The Calculator App is designed to make the DIN setting process as easy as possible. You will find the app for your operating system in the appropriate App Store for IOS or Android. Search for HEAD TYROLIA CALCULATOR, accept the terms and start the download. Use **"din_setting"** as the unlock code for installation.

Only certified HEAD/TYROLIA ski mechanics are allowed to use this application. It is for information purposes only and may not be forwarded or offered to others.

After downloading the App to your mobile device, enter all the required information and the appropriate DIN setting will appear on your smartphone screen.

WORKSHOP TOOLS AND AIDS

To make your work easier, HEAD/TYROLIA provides a variety of workshop tools and aids. Find the whole product range below. Furthermore HEAD/TYROLIA offers different templates for all available HEAD/TYROLIA ski bindings and plates. Find the overview of the drill template selection 2021.22 on next pages. Referring to this overview you are able to determine easily which template should be used with which binding. Also find this information on the removable bench chart which is located inside the back cover of this Technical Manual or at the label on the binding box.For earlier lines, refer to the corresponding Technical Manuals or use the Online Spare Parts OMS to search for specific information.

Picture	Item	packed	Art.No.
	• Screwdriver flat	per piece	160806
	• Screwdriver incl. Pozidrive #3 Bit (160805)	per piece	162800
	• Handy Ratchet incl. bits (162575 + 162576)	per piece	162574
	• Slotted Screw Bit for Handy Ratchet	per piece	162575
	• Pozidrive #3 Bit for Handy Ratchet	per piece	162576
	• Pozidrive #3 Bit for Screwdriver 162800 and electric drivers hexagon. 1/4" (6.35 mm)	per piece	160805
	• Pozidrive #3 Bit for electric driver (Black & Decker, Skill, Thor, Atlas-Copco, Virax, Consolidated, Bosch, Ingersoll-Rand), hexagon. 1/4" (6.35 mm)	per piece	160802
	• Pozidrive #3 Bit for electric driver (Bosch, Metabo, AEG), hexagon. 1/4" (5.5 mm)	per piece	160803
	• Torx bit 25/50 - 1/4 inch	10 pieces	163066
	• Service-Grease-Spray (500 ml)	per piece	162779
	• TYROLIA Grease	per piece	160052
	• TYROLIA Glue	per piece	160858
	• Rubber band for brake	10 pieces	162562
	• Rental Boot Indicator (Single Code, mm)	per piece	162617
	• Slide (replacement) for Rental Boot Indicator	per piece	162518
	• SINGLE CODE Rental Boot Stickers (5 sheets)	per set	162561
	• Height Adjustment Tester for AAA-Series	per piece	162983

HEAD/TYROLIA CERTIFICATION REQUIREMENTS

This section must be read, and thoroughly understood, prior to completion of HEAD/TYROLIA's Employee Training Documentation Form and viewing the 2021.22 HEAD/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 HEAD/ 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 HEAD/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, installing, function checking, and maintaining HEAD/TYROLIA products. Last but perhaps most important, we produced it to help you understand why HEAD/ 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/bind ing 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 HEAD/TYROLIA Authorized Retailer Agreement on file with HEAD USA INC. / HEAD CANADA INC.
- A current HEAD/TYROLIA Binding Indemnification Agreement on file with HEAD USA INC. / HEAD CANADA INC.
- At least one HEAD/TYROLIA Certified Technician employed per location.
- The required equipment for installing and testing HEAD/ TYROLIA bindings. All Agreements and Certifications must be valid for the current season.

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 neverever 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 "HEAD/TYROLIA Retailer Indemnity Program", is pro viding 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):
- 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.
- 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 rental form 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 avail able, the equipment should only be released if the proper signatures have been obtained.
- Remember, the customer's signature and initials are required in two places under the terms of the HEAD/ TYROLIA Rental Indemnity Program. In order to avoid misunderstandings with the customer, please inform them of this re quirement when equipment is taken in for service.
- Remember that your certification covers only adjustment of HEAD/ TYROLIA rental bindings owned by your shop.

ACCIDENTS AND INJURIES:

Although properly maintained and adjusted ski-boot-bindings systems will greatly improve a skier's enjoyment and safety, skiing remains an inherently hazardous activity, and no skiboot- binding system can prevent all injuries.
In the event of an injury involving rental equipment, a Post Accident Report must be completed by a HEAD/TYROLIA Certified Mechanic. See the HEAD/ TYROLIA Technical Manual for more information on this and other risk management issues. For further information please contact:

HEAD USA INC. 3125 Sterling Circle Suite 101 Boulder, CO 80301 USA Phone: 800-874-3235 720-708-6400 Fax: 720-708-6419 www.tyrolia.com	**HEAD CANADA INC.** 935A Southgate Dr. Unit 4 Guelph, Ontario, Canada N1L 0B9 Phone: 800-265-7257 519-822-1576 Fax. 519-822-2202 www.tyrolia.com

USE OF NON-RECOMMENDED SETTINGS

SKIERS REQUESTING SETTINGS NOT RECOMMENDED BY HEAD/ TYROLIA

The 2021.22 HEAD/TYROLIA Release/Retention Adjustment Table is the only adjustment chart recommended for use by HEAD/TYROLIA dealers during the 2021.22 season.
Some skiers may request settings different from those in the HEAD/ 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 HEAD/TYROLIA Release/Retention Adjustment Table.
HEAD/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. HEAD/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 reclassifying skier type and for troubleshooting, the shop may either:

1. Adjust the system to the setting derived from HEAD/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 skier's stated reason for requesting the higher or lower setting.
3. In either case, 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, and in addition to making comments on the workshop or rental form, the skier must also read and sign a supplemental 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 supplemental signed warning, release and indemnity agreement are attached to the completed workshop or rental form.

RACING (X) BINDINGS

Certain binding models are produced by HEAD/TYROLIA each year for the exclusive use of qualified competitors under the supervision of HEAD/ TYROLIA Technical Specialists.

Racing bindings offer release/retention settings outside of those on the HEAD/ TYROLIA Release/Retention Adjustment Table, which is based upon ISO/ASTM Safety Standards. These bindings can be serviced under the Dealer Indemnity Program if proper procedures are followed.
We recommend you decline to service them and that you warn against their use unless you have training or experience as a race technician and your customer is a high-level competitor who clearly states a need for these bindings. The customer is to be warned that using these bindings significantly increases the risk of injury due to non-release, and that settings exceeding the recommended range are made at the skier's own risk. If you do service racing bindings, you must follow the same procedures described above for making specific comments on the standard workshop form in addition to completing the form on this page to be signed be the skier.

WARNING, LIABILITY RELEASE AND INDEMNITY AGREEMENT FOR NON-RECOMMENDED RELEASE/RETENTION SETTINGS OR RACING BINDINGS

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 RELEASE this shop, all manufacturers, distributors, retailers and other providers of this equipment, all persons who service this equipment, the resort and property owners where this equipment is used, serviced or sold, and all of their agents, employees, officers, directors, owners, sponsors and affiliated persons and companies ("Released Parties"), from ANY AND ALL RESPONSIBILITY OR LEGAL LIABILITY for any injuries, damages or death to any user of this equipment, whether caused by NEGLIGENCE or any other cause. I further agree that I WILL NEVER SUE the Released Parties, and that I WILL DEFEND AND INDEMNIFY the Released Parties if any claim or action is pursued for any injuries, damages or death involving the use of this equipment.

If I am using Competition Bindings, such as HEAD/TYROLIA (X) bindings, my doing so is based entirely upon my personal decision to use them. Competition bindings are not intended for use by recreational skiers because they have release and retention features that do not comply with national and international safety standards. I understand and acknowledge that competition bindings are made for high level competitors who, based upon their personal experience, have decided that they have special retention requirements that exceed the capabilities of recreational ski equipment and the standards that apply to recreational ski equipment. I understand and agree that any use of this equipment may significantly increase the risk of injury due to non-release or other events, and **I assume all risk of injury or death that may result from using competition equipment.**

I, the undersigned, have read and understand this **liability release and indemnity agreement,** and agree that it is binding upon me, my heirs, family, 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

TROUBLESHOOTING RELEASE/RETENTION PROBLEMS

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, or designating skier type classifications that are different for twist and forward lean. You may even requesting discretionary release/retention settings that are out side of your setting range. If you believe that you require higher release/retention settings but are unsure if the increase should be applied to twist or forward lean settings, request that the increase be applied to forward lean settings before experimenting with higher twist settings. Similarly if you believe that you require lower release/ retention settings but are unsure if the decrease should be applied to twist or forward lean settings, request that the decrease be applied to twist settings before experimenting with lower forward lean settings.
   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.

TYROLIA

EQUIPMENT RENTAL FORM

PLEASE PRINT CLEARLY

Date out | Date in

Last Name | First Name

Adress / City | Prov. /State | Country | Postal Code / ZIP

Phone Number | E-Mail | Local Phone Number

Your Weight (lbs / kg) | Your Height (ft / m . in. / cm) | Skier Type (Circle One) I II III | Age | No. Of Days Wanted

FOR OFFICE USE ONLY

Skier Code | Final Indicator Setting (L / R: Toe, Heel) | Single Code

BOOT SOLE TYPE

- ☐ Alpine Boot TYPE A (ISO 5355)
- ☐ Alpine Boot TYPE C (ISO 5355)
- ☐ Touring Boot (ISO 9523)
- ☐ GripWalk TYPE A (ISO 23223)
- ☐ GripWalk TYPE C (ISO 23223)

	Rent	Own	ID# or Description
Skis	☐	☐	
Boots	☐	☐	
Poles	☐	☐	
Suit	☐	☐	
S-Board	☐	☐	
SB-Boots	☐	☐	
Cross Country	☐	☐	
Other	☐	☐	
Other	☐	☐	
Insurance	Yes ☐	No ☐	

Comments

X

TECHNICIAN'S SIGNATURE

WEIGHT LBS KG	HEIGHT FT` IN`` CM	SKIER CODE	INITIAL INDICATOR VALUE							
			Boot sole length [mm]							
			≤ 230	231 250	251 270	271 290	291 310	311 330	331 350	≥ 351
			Single Code							
			a l	j n	o s/B	t/C G	H L	M O	R V	V 6
22-29 lbs **10-13 kg**		A	0,75	0,75	0,75					
30-38 lbs **14-17 kg**		B	1,00	0,75	0,75	0,75				
39-47 lbs **18-21 kg**		C	1,5	1,25	1,25	1,00				
48-56 lbs **22-25 kg**		D	2,00	1,75	1,50	1,50	1,25			
57-66 lbs **26-30 kg**		E	2,50	2,25	2,00	1,75	1,50	1,50		
67-78 lbs **31-35 kg**		F	3,00	2,75	2,50	2,25	2,00	1,75	1,75	
79-91 lbs **36-41 kg**		G		3,50	3,00	2,75	2,50	2,25	2,00	
92-107 lbs **42-48 kg**	≤ 4' 10" **≤ 148 cm**	H			3,50	3,00	3,00	2,75	2,50	
108-125 lbs **49-57 kg**	4' 11"-5' 1" **149-157 cm**	I			4,50	4,00	3,50	3,50	3,00	
126-147 lbs **58-66 kg**	5' 2"-5' 5" **158-166 cm**	J			5,50	5,00	4,50	4,00	3,50	3,00
148-174 lbs **67-78 kg**	5' 6"-5' 10" **167-178 cm**	K			6,50	6,00	5,50	5,00	4,50	4,00
175-209 lbs **79-94 kg**	5' 11"-6' 4" **179-194 cm**	L			7,50	7,00	6,50	6,00	5,50	5,00
≥ 210 lbs **≥ 95 kg**	≥ 6' 5" **≥ 195 cm**	M				8,50	8,00	7,00	6,50	6,00
		N				10,00	9,50	8,50	8,00	7,50
		O				11,50	11,00	10,00	9,50	9,00
		P						12,00	11,00	10,50

Referred by

AMOUNT PAID $

I have read, understood and agreed to all terms and conditions on the reverse side of this form, including the WARNING, LIABILITY RELEASE, INDEMINITY AGREEMENT AND ASSUMPTION OF RISK AGREEMENT. I accept full financial responsibility for the equipment listed on this form and promise to return it clean and undamaged by the agreed time and date. If I fail to do so, I agree to pay for its repair, cleaning or replacement at the full rental rate, as determined by the shop, as well as for the rental value of any additional days. (**For release bindings only:** I have confirmed that the binding release/retention settings numbers on the binding correspond to the "Final Indicator Setting" stated on this form. I understand that correct weight, height, age and skier type are essential to proper adjustment of the release/retention settings, and I certify that all user information on this form is correct.)

X

SIGNATURE OF USER OR AGENT | DATE

X

SIGNATURE OF PARENT IF USER IS A MINOR | DATE

WARNING, LIABILITY RELEASE, INDEMINITY AGREEMENT AND ASSUMPTION OF RISK AGREEMENT

PLEASE READ CAREFULLY

ASSUMPTION OF RISKS
I understand how this equipment works and have received proper instruction and satisfactory answers to my questions. If at any time this equipment does not seem to be working properly, I will stop using it immediately and return it for inspection and possible repair or adjustment. I understand and agree that skiing, snowboarding, skiboard-ing, and related activities are **HAZARDOUS** and that injuries are common and ordinary occurerrences during these activities. **I AGREE TO ASSUME ALL RISKS OF INJURY OR DEATH** which may result from these activities.

(Please Initial _____)

If Alpine ski equipment or skiboards are being furnished, I understand that the ski-boot-binding system will release the boot from the ski when certain forces on the system reach preset values, but that it will **NOT RELEASE OR RETAIN** at all times where release or retention may prevent injury, and that it **CANNOT** prevent all injuries or guarantee the user's safety. I understand and agree that unwanted release or retention of bindings is an inherent risk of using any ski-boot-binding system. I further agree and understand that any ski-boot-binding system does **NOT ELIMINATE THE RISK** of injuries to the user's knees or to any other of this user's body.

If touring (AT) bindings and/or boots are being furnished, I understand and agree that this equipment provides functionalities that I want, but it might NOT provide the same degree of release and retention protection as regular Alpine boots and bindings, and that injuries resulting from unwanted release or retention of this or any other ski-boot-binding system are inherent risks of skiing.

If Nordic or Snowboard equipment is being furnished, I understand that these systems normally will **NOT RELEASE** in falls and accidents and that they do **NOT PROTECT** against any type of injury.

If a **HELMET** is being furnished, I understand that no headgear can protect against all foreseeable impacts, that skiing and snowboarding can expose the user to forces which exceed the limits of protection offered by this helmet, that helmets do not guard against injury to the neck, spine, face or any other part of the body, and that these features are inherent risks of using this equipment. Helmets must be properly fitted to each user, and I agree that this helmet has been properly fitted by the provider. I warrant that the helmet is comfortably snug and that when I fasten the chin strap and shake my head there is no significant movement of the helmet. I agree if the helmet is damaged or involved in any kind of accident, I will stop using it immediately, return it to the shop and report the accident or damage.

To the fullest extent allowed by law, I hereby **RELEASE** this ski shop and all other persons and companies who provide any equipment to me or have any involvement in manufacturing, distributing, selling, renting, mounting, adjusting, servicing, maintaining, testing or inspecting any equipment I use, and all of their agents, employees, officers, directors, owners and affiliated companies ("Released Parties"), from **ANY AND ALL RESPONSIBILITY OR LEGAL LIABILITY** for any and all claims asserted by anyone arising out of any injuries, damages or death I may suffer, whether caused by **NEGLIGENCE** or any other cause. I further agree that neither I nor my estate, heirs or assigns **WILL EVER SUE** the Released Parties, and that **WE WILL DEFEND AND INDEMNIFY** the Released Parties if any claim or action is pursued by anyone arising out of any injuries, damages or death to me that has any connection whatsoever to skiing, snowboarding or any activities involving the use of this equipment.

(Please Initial _____)

I accept this equipment. **"AS IS"** and with **NO WARRANTIES**, express or implied, beyond those stated herein and in the manufacturer's written limited warranty.
This document constitutes the **FINAL AND ENTIRE AGREEMENT** regarding this transaction and this equipment, and its supersedes any and all other documents or oral statements. If any part is found to be invalid or unenforceable, the remainder shall be given full force and effect.
THIS IS A CONTRACT which provides a **COMPREHENSIVE RELEASE OF LIABILITY**, but it is not intended to assert any claims or defenses that are prohibited by law. The specific legal rights of the parties may vary in different states and provinces.
If this equipment is to be used by someone other than me, I certify that I am acting for the ultimate user and that I will provide this form and all other warnings and information to the ultimate user.

X _____ _____
SIGNATURE OF USER OR AGENT — DATE

X _____ _____
SIGNATURE OF PARENT IF USER IS A MINOR — DATE

USE OF THE EQUIPMENT RENTAL FORM

TYROLIA

EQUIPMENT RENTAL FORM

PLEASE PRINT CLEARLY

Date out: | Date in:

Last Name: Sample | First Name: Jennifer
Adress / City: 101 - 111 th St. Anytown | Prov. /State: MA | Country: USA | Postal Code / ZIP: 11101
Phone Number: 1101-1101 | E-Mail: j.sample@amywhere.com | Local Phone Number: 111-1001
Your Weight: 140 lbs kg | Your Height: 5 ft m 7 in. cm | Skier Type (Circle One): I (II) III | Age: 35 | No. Of Days Wanted: 02

FOR OFFICE USE ONLY

Skier Code	Final Indicator Setting		Single Code
	L	R	
K	Toe 5.5	5.5	J
	Heel 5.5	5.5	

BOOT SOLE TYPE

- [X] Alpine Boot TYPE A (ISO 5355)
- [ ] Alpine Boot TYPE C (ISO 5355)
- [ ] Touring Boot (ISO 9523)
- [ ] GripWalk TYPE A (ISO 23223)
- [ ] GripWalk TYPE C (ISO 23223)

	Rent	Own	ID# or Description
Skis	X		S12 345
Boots		X	EDGE + 8HT
Poles	X		
Suit			
S-Board			
SB-Boots			
Cross Country			
Other			
Other			
Insurance	Yes X	No	

Comments

X JOHN Mastertech
TECHNICIAN'S SIGNATURE

WEIGHT LBS KG	HEIGHT FT` IN`` CM	SKIER CODE	INITIAL INDICATOR VALUE: Boot sole length [mm] ≤230	231 250	251 270	271 290	291 310	311 330	331 350	≥351
			Single Code: a I	j n	o s/B	t/C G	H L	M O	R V	V 6
22-29 lbs **10-13 kg**		A	0,75	0,75	0,75					
30-38 lbs **14-17 kg**		B	1,00	0,75	0,75	0,75				
39-47 lbs **18-21 kg**		C	1,5	1,25	1,25	1,00				
48-56 lbs **22-25 kg**		D	2,00	1,75	1,50	1,50	1,25			
57-66 lbs **26-30 kg**		E	2,50	2,25	2,00	1,75	1,50	1,50		
67-78 lbs **31-35 kg**		F	3,00	2,75	2,50	2,25	2,00	1,75	1,75	
79-91 lbs **36-41 kg**		G		3,50	3,00	2,75	2,50	2,25	2,00	
92-107 lbs **42-48 kg**	≤ 4' 10" ≤ **148 cm**	H			3,50	3,00	3,00	2,75	2,50	
108-125 lbs **49-57 kg**	4' 11"-5' 1" **149-157 cm**	I			4,50	4,00	3,50	3,50	3,00	
126-147 lbs **58-66 kg**	5' 2"-5' 5" **158-166 cm**	J			5,50	5,00	4,50	4,00	3,50	3,00
148-174 lbs **67-78 kg**	5' 6"-5' 10" **167-178 cm**	K			6,50	6,00	5,50	5,00	4,50	4,00
175-209 lbs **79-94 kg**	5' 11"-6' 4" **179-194 cm**	L			7,50	7,00	6,50	6,00	5,50	5,00
≥ 210 lbs **≥ 95 kg**	≥ 6' 5" **≥ 195 cm**	M				8,50	8,00	7,00	6,50	6,00
		N				10,00	9,50	8,50	8,00	7,50
		O				11,50	11,00	10,00	9,50	9,00
		P						12,00	11,00	10,50

Referred by

AMOUNT PAID $ $ XX.XX

I have read, understood and agreed to all terms and conditions on the reverse side of this form, including the WARNING, LIABILITY RELEASE, INDEMINITY AGREEMENT AND ASSUMPTION OF RISK AGREEMENT. I accept full financial responsibility for the equipment listed on this form and promise to return it clean and undamaged by the agreed time and date. If I fail to do so, I agree to pay for its repair, cleaning or replacement at the full rental rate, as determined by the shop, as well as for the rental value of any additional days. (**For release bindings only:** I have confirmed that the binding release/retention settings numbers on the binding correspond to the "Final Indicator Setting" stated on this form. I understand that correct weight, height, age and skier type are essential to proper adjustment of the release/retention settings, and I certify that all user information on this form is correct.)

X _____ _____
SIGNATURE OF USER OR AGENT — DATE

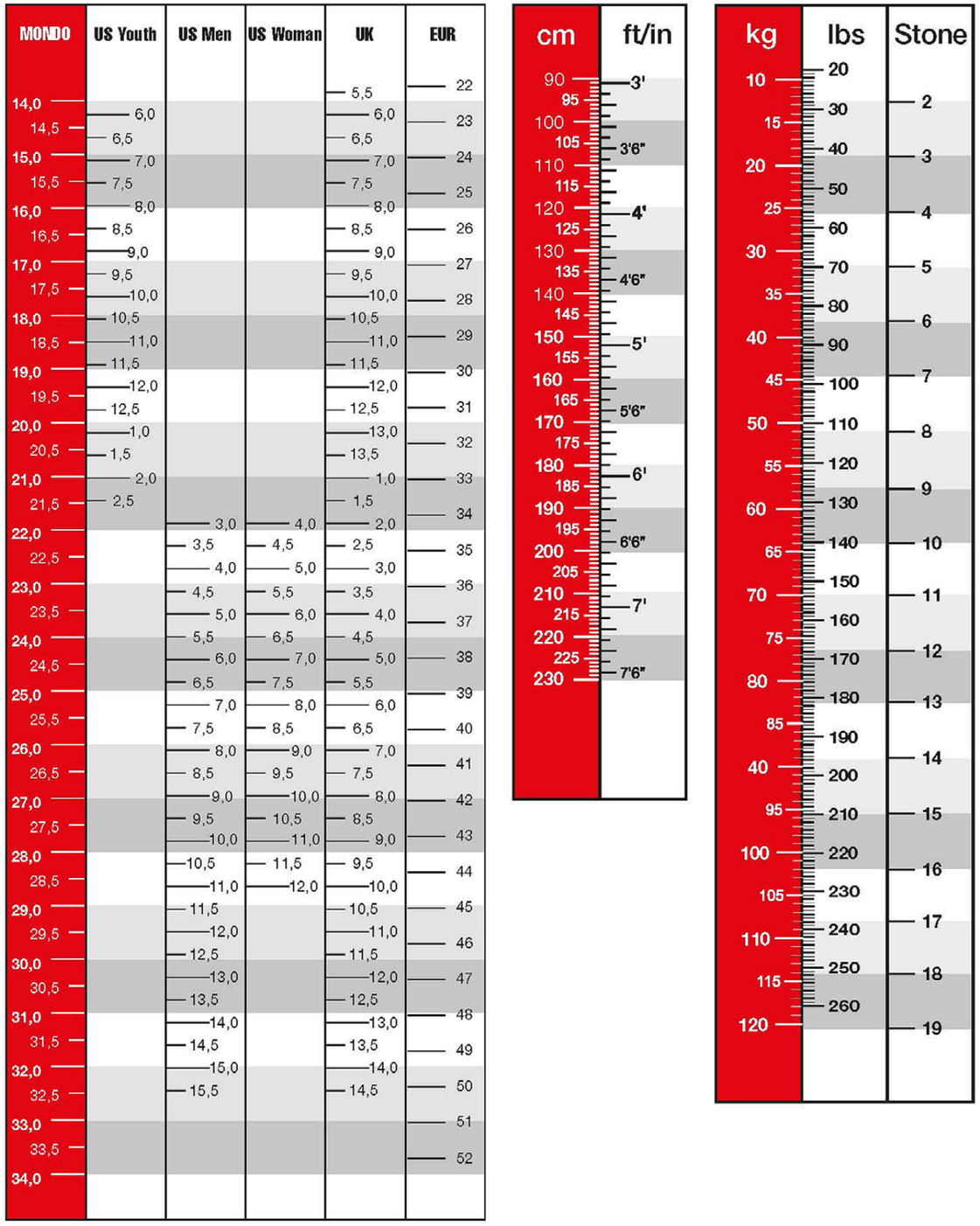
X _____ _____
SIGNATURE OF PARENT IF USER IS A MINOR — DATE

1. Verify that the customer has provided all required information. Make sure everything is legible.
2. Under the equipment column: mark if the equipment is rented or owned; enter ID # or description.
3. Mark if the customer wants to insure his equipment.
4. In the weight column: circle the group that contains the customer's weight.
5. In the height column: circle the group that contains the customer's height.
6. Select the skier code closest to the top.
7. Move on the skier code column according to the skier type.
8. Move on the skier code column according to the age.
9. Circle the final skier code
10. Enter the final skier code into the box on the left hand side of the form.
11. Circle the sole length column that contains the sole length of the boot used.
12. Circle the Initial Indicator Value.
13. Determine the TYROLIA Single Code and enter it in the box.
14. Mark if this is an Adult or a Junior Code.
15. Determine the Final Indicator Setting, adjust the binding accordingly and record the settings on the form.
16. Confirm with your signature that you have adjusted the binding as recorded on the form.

It is mandatory that you follow the above procedure exactly.
Before dispatching the equipment make sure that the customer:

- has read and understood the form
- initialed and signed the form in all necessary places
- If the customer requests special settings, follow the procedures for ·Discretionary Settings/ troubleshooting at page 43/44.

SIZING SYSTEMS



*Note: at 20, kid boot sizes switch from Youth sizing, to Adult U.S. Men's sizing.

PRE-SEASON AND IN-SEASON TESTING

PREPARING AND CHECKING RENTAL SYSTEMS

Customers usually don't 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. No. 162561) 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 SINGLE CODE, all you need to do is follow our simple procedure.

1. Mount all bindings according to the TYROLIA manual. 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. 48)!

You can get SINGLE CODE stickers as a spare part.
"SINGLE CODE" sticker set Art. No. 162561. For this procedure the TYROLIA Rental Boot Indicator (Art. No. 162617) can be used.

Pict. 48

RENTAL INSPECTION SUMMARY

Since it is impractical to perform a full inspection each time a system is rented, a routine of preseason 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.
The rental procedure is not applicable for complete and incomplete alpine ski-binding-boot systems which are rented 15 days or more and for alpine touring ski-binding-boot systems.

PRE-SEASON INSPECTION

Prior to the beginning of each season and whenever new inventory is added, an inspection should be made of the components of the release/retention system (binding-boot) in accordance with the procedure described in this manual (Page 49-52). Bindings that fail go through a troubleshooting procedure (see page 44) to identify and correct the deviation or mal-function. If this procedure does not correct the problem, the binding is removed from inventory (Page 49-52). 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. If a boot fails, a 16 system (or less if 16 systems are not available) ran- dom sample is also tested. If any boot in this sample creates a deviation greater than the inspection tolerance all boots from that cell are then tested. Boots that fail and cannot be repaired are removed from inventory.

IN-SEASON INSPECTION

At regular intervals during the season, samples are taken from the rental inventory and evaluated in accordance with the procedures described in this manual (Page 51-52). In-sea- son inspections are performed on complete rental systems to ensure that the equipment is adjusted appropiately and continues to function correctly.

IMPORTANT TERMS

CORRECTION FACTOR
The value that must be added or subtracted from the initial visual indicator setting to bring the result within the Inspecti- on Tolerance (or Inspection Range).
DIRECTIONS OF RELEASE
Unless otherwise specified (see In season Inspection), the directions of release to be tested are forward lean, 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.
SYSTEM BINDING
A binding that is slid onto a pre-mounted or integrated track without drilling.
PRE-MOUNTED BINDING
A binding that is already mounted on the ski before being delivered to the shop.

PRE-SEASON TEST

PRE-SEASON BINDING SELECTION
All bindings, new or used are visually inspected.
1. For factory new pre-mounted or sealed system bindings (PR, SLR and SP PM) a 5% sample (not less than 16 nor more than 80 systems) of each "cell" is tested using a specially selected reference boot. A cell is all bindings of the same make, model and year. Although sampling eli- minates the need to test every binding before the season starts, the sample chosen must be representative of the inventory.
2. For any other new bindings and all used bindings, all bindings of the inventory are inspected.

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 cannot 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, child, BYS or HRS.
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 Refe- rence Boot for forward lean, the middle boot.

PRE-SEASON BINDING INSPECTION

The procedure that follows is an integral part of pre-season maintenance. It is also a good way to determine if maintenan- ce was successful and which units have outlived their useful- ness 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 table [A]. Due to the fixed length of BYS bindings there are adapted tables for all BYS and HRS system bindings (table [B], [C]).
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 Tolerance provided in Table [A].
11. Set aside the binding if the test result in any directions of release is outside the Inspection Tolerance in Table [A].

11.a If the test results of any binding from the before taken sample for factory pre-mounted or sealed system bindings is outside the Inspection Tolerance in Table [A], every binding of the same cell is tested.

11.b. Set aside the binding if the test result in any directions of release is outside the Inspection Tolerance in Table [A]. 12. Follow Troubleshooting Procedure on page 37/38 for units which have been set aside and retest if changes in the unit's condition or adjustment are made.

12. Follow Troubleshooting Procedure on page 37/38 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 Tolerance 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 reinspect the Reference Boot. If necessary, select another boot and retest the bindings.

PRE-SEASON BOOT PREPARATION

The procedure that follows is an integral part of pre-season maintenance.

1. Clean all boots with a mild detergent and water, and repair or replace damaged or missing parts. 2. Visually check:
   a.) Compliance with ISO and other applicable standards. 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 33.
   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.

PRE-SEASON BOOT SAMPLING

Although sampling eliminates the need to test every boot be- fore 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 [D]. Make sure that there is at least one boot from each cell in the sample.

PRE-SEASON BOOT INSPECTION

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

NOTE: when using Table [A], [B], [C] 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], [B], [C]. Use the Reference Torque corresponding to Skier Code [L] for the Adult binding, [J] for Junior binding, and [F] for the Child binding. (Reference [B]- black, yellow, silver; [C] - red triangle, blue square, black diamond, white circle)
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 Tolerance provided in Table [A], [B], [C] for Skier Code used to set up the Reference Binding (Reference [A] - F,J or L; [B]- black, yellow, silver; [C] - red triangle, blue square, black diamond, white circle).

9.a For a new boot that fails, check a 16 system (or less if 16 are not available) random sample of the boots of the same cell (make, model, year, and shell size) as those that failed. If any boot of these samples creates a deviation greater than the Inspection Tolerance, check all other boots from the same cell.

9.b For used boots, if any boot of the sample creates a deviation greater than the Inspection Tolerance, check all other boots from the same cell.

10. 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.

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 ad- just 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 (reduced sampling schedule).
4. If a sample fails at any time, daily sampling is instituted until two consecutive samples pass, at which point weekly sampling resumes.

Facilities that have an average daily output of fewer than 160 rental skier days/day (averaged on a weekly basis) may adopt an alternate procedure and sample, over the sampling interval, 5% of average daily output, and delay evaluation of the inspection results until a total of 16 sampled units is detected at any time, corrective action should be taken. This alternative method is used with a normal (weekly) or daily sampling schedule but is inappropriate for a reduced schedule.

SAMPLE SIZE

Sample size is 5% of inventory but not less than 16 nor more than 80 units as noted in Table [D]. Sample size may be based on average daily output if rental output drops below 50% of capacity over the sampling period. The sample is taken at any time during the sampling interval or may be spread over the period. The sample represents both inventory available for rental and equipment in the condition in which it is returned, with an equal number of units drawn of each group. All units within such sample should be selected randomly.

IN-SEASON INSPECTION

1. Take a random sample of the rental inventory as deter- mined by Table [D]. 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 Tolerance for the appropriate Skier Code, see ISO 11088 Release/Retention Adjustment Chart (page 28).
6. If the results are within the Inspection Tolerance, one value above to one value below the reference value, the unit passes.
7. If the results are outside Inspection Tolerance but within the In-Use Range, two values above to two values below the reference value, count the unit as a range class I deviation.
8. If the results are outside the In-Use Range, count the unit as a range 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 range class I deviation.
10. If more than the maximum number of range class I deviations given in Table [D] are found in the sample, or a single range 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 pages 37/38 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 range class I and range class II deviations, whether the sample passed or failed and any actions taken. There is no need to record the identity of units tested or actual Test Results.

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, or if only the boot is rented 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 HEAD/TYROLIA Certified Mechanic are required on all shop forms to qualify for the HEAD/TYROLIA Dealer Indemnity Program.

SKIER CODE	BINDING TYPE	BOOT SOLE LENGTH [MM]	RELEASE INDICATOR SETTING	REFERENCE TORQUE TWIST [NM]	REFERENCE TORQUE FORWARD [NM]	TWIST INSPECTON TOLERANCE [NM]	FORWARD INSPECTON TOLERANCE [NM]	TWIST IN-USE RANGE [NM]	FORWARD IN-USE RANGE [NM]
F	Children	260	2.5	23	87	20-27	75-102	17-31	64-120
J	Junior	300	4.5	43	165	37-50	141-194	31-58	120-229
L	Adult	320	6.0	58	229	50-67	194-271	43-78	165-320

TABLE [A] PRE-SEASON BINDING INSPECTION

COLOR CODE	BOOT SOLE LENGTH [MM]	RELEASE INDICATOR SETTING	REFERENCE TORQUE TWIST [NM]	REFERENCE TORQUE FORWARD [NM]	TWIST INSPECTON TOLERANCE [NM]	FORWARD INSPECTON TOLERANCE [NM]	TWIST IN-USE RANGE [NM]	FORWARD IN-USE RANGE [NM]
Black	289	5.0	43	165	37-50	141-194	31-58	120-229
Yellow	329	6.0	58	229	50-67	194-271	43-78	165-320
Silver	365	6.0	67	271	58-78	229-320	50-91	194-380

TABLE [B] PRE-SEASON BINDING INSPECTION FOR BYS 10

COLOR CODE	BOOT SOLE LENGTH [MM]	RELEASE INDICATOR SETTING	REFERENCE TORQUE TWIST [NM]	REFERENCE TORQUE FORWARD [NM]	TWIST INSPECTON TOLERANCE [NM]	FORWARD INSPECTON TOLERANCE [NM]	TWIST IN-USE RANGE [NM]	FORWARD IN-USE RANGE [NM]
red triangle	205	1.0	11	40	8-14	29-52	5-17	18-64
blue square	225	1.5	14	52	11-17	40-64	8-20	29-75
black diamond	245	2.25	20	75	17-23	64-87	14-27	52-102
white circle	265	3.0	27	102	23-31	87-120	20-37	75-141

TABLE [C] PRE-SEASON BINDING INSPECTION FOR SX 4.5 R GW CA - HRS JUNIOR

	min.							max.	
Inventory Size - pairs	50	100	200	300	400	500	600	700	800	900
Inventory Size - units (half pairs)	100	200	400	600	800	1000	1200	1400	1600	1800
Sample Size - units (half pairs)	16	16	20	30	40	50	60	70	80	80
Max. Class 1 dev.	3	3	4	6	8	10	12	14	16	16

TABLE [D]

GLOSSARY OF BINDING TERMS

AFD - Anti-friction device. The low-friction boot sole rest used on modern bindings.

Binding - The coupling between the boot and the ski. A release binding releases the boot from the ski when certain loads reach preset values.

Boot - The coupling between the skier and the ski binding. Modern alpine ski boots should support the foot and leg in all directions and inter-face predictably with the binding.

Cam - A simple mechanism which uses mechanical shapes to control the relationship between the force applied to the release system and the displacement of the boot. Typically, the release adjustment spring presses a follower against an internal cam to vary the required load to achieve release.

Clearance - The allowed distance, usually vertical at the toe cup, between boot and binding. Some bindings require one-half to one millimeter of clearance at the toe for proper function; some require none.

Compatibility - The ability of boot and binding to function harmoniously as part of a release/ retention system.

Compensation - A feature which causes a binding to release more easily under the influence of combined, rather then simple, load configurations. Compensation mechanism counteract the effects of friction under combined loading-a forward or backward-twisting fall, for example. It is usually a feature built into the toe piece.

Correction Factor - the value which must be added to or subtracted from the initial indicator value to bring the measured value within the inspection tolerance (Rental). Corrective Action - procedures other than readjustment of the release setting to include repair or replacement of system components.

Deviation - the difference between the measured and the selected reference torque value, usually expressed as a percentage of the selected reference torque value (Rental).

Deviation, Range Class I - a minor deviation which does not require corrective action, defined as +/- (21 to 30)% of the selected reference torque value. Class I deviations are used to determine the frequency of sampling (Rental).

Deviation, Range Class II - a minor deviation which prompts inspection of the entire inventory and corrective action, defined as +/- (31 to 50)% of the selected reference torque value (Rental).

Deviation, Range Class III - defined as more than +/- 50% of the selected reference torque value. The In-Season sampling and inspection program is designed to render the occurrence of a Class III deviation unlikely. The detection of a Class III deviation prompts corrective action and a review of all procedures (Rental).

Elasticity - the ability of the binding to allow the boot to move in the direction of release and then to return the boot to its original position if release is not required. Sometimes called anti-shock movement or antishock travel.

Forward Pressure - the forward force applied to the boot when the binding is latched.

Friction - The resistance to movement of one surface relative to another.

Hold-Down Lug - The binding fixture which clamps the boot sole to the ski preventing either toe or heel from lifting.

Indicator Setting - the value displayed on the binding's release adjustment scale.

Initial Indicator Setting - the indicator value derived from the binding manufacturer's Release Value Selection table, based on the skier's height, weight, skier type, age, and sole length.

Final Indicator Setting - the value displayed on the binding's release adjustment scale after all inspections and any required readjustments have been made.

In-Season Inspection - statistically valid random testing of units in inventory to ensure that the equipment functions and releases within +/- 20% of the reference value, or +/- 5 Nm for twist and 20 Nm for forward lean, whichever is greater (Rental).

Incomplete System - a system consisting of rented equipment (boots or skis and binding) and customer owned equipment (Rental).

Interchangeable - applies to the free exchange of boots and bindings within a rental inventory without testing each new combination of system components (Rental).

Limit for Readjustment (In Use Tolerance) - the accepted difference between the reference value and the measured value, defined as +/- 30% of the reference value, or +/- 5 Nm for twist and +/- 20 Nm for forward lean, whichever is greater, unless otherwise specified by the binding manufacturer, used as the upper limit for applying a correction factor. Also known as In-User Tolerance.

Low Grade Thermal Plastic - also known as „T.P." A high friction plastic that causes unaccep-table performance of the boot/binding system. The easiest way to identify boots made of this material is that it may be readily indented with a thumbnail. When in doubt perform a clean vs. lubricated test. These boots should not be used for any reason.

Middle Quantitative Value - the middle number of three measured test results. This is not an average! Throw out the high and low of the three numbers.

Examples:
Measured test results: 43, 52, 47
Middle quantitative value: 47
Measured test results: 72, 64, 85
Middle quantitative value: 72
Measured test results: 32, 32, 50
Middle quantitative value: 32

Please note that if the first two results are the same it is not necessary to perform a third test. In a pass/fail situation, if the first two results are either pass or fail, it is not necessary to perform a third test.

Measured Value - release torque determined by the use of a testing device.

Noninterchangeable - applies to the establishment of specific boot-binding combinations which are tested each time a new combination is created (Rental).

Newton-meter (Nm) - a unit measurement of torque in the metric system.

Obsolete - incapable of providing performance consistent with the current state of the art and therefore inherently less safe. Refers to design, not age or condition.

Pivot Systems - The mechanical principle on which the binding toe functions. The design of the toe piece determines the motion of the boot relative to the ski and the binding during anti-shock travel and release. There are several concepts used in current bindings: all are capable of providing adequate performance. Here are some terms used to describe the most common toe piece designs.

Alternating pivot - A cup or split cup type binding toe piece which rotates around separate left and right pivot axes, as opposed to a single axis. This design allows anti-shock movement without requiring the boot to move forward or backward on the ski.
Four-pivot - a dual, double-pivot toe-piece design. Separate left and right, double-pivot systems control retention and release.
Inclined pivot - a method of achieving compensation in a toe piece. Often used in alternating -pivot designs. The pivot axis is tilted from the vertical, allowing the release mechanism to sense both upward and sideward (i.e., twisting) loads at once.
Pincer - a dual, single-pivot toe piece design in which the boot toe is held in place by separate, left and right, springloaded lugs. This principle, like an alternating pivot, helps to eliminate forward movement of the boot on the ski during elastic travel and release. Example: Current TYROLIA models.
Single-pivot - a toe piece that rotates about a single fixed axis. Usually requires sliding contact between the boot and binding during release, and requires at least some forward movement of the boot on the ski.
Precode (Coded Fit) - a preseason determination of sole length and track setting for each boots style and/ or size. All bindings are mounted to the same length. Either a chart listing track settings is made up or the boots are marked with the predetermined track setting.
Prematch - using one particular set of boots only with one particular pair of skis.
Preset - having each pair of skis and bindings marked with and set at a particular visual setting.
Preseason Inspection - the pre-season inspection and testing of rental inventory to verify that release values are within a specified range. Testing and/or inspection of boots is also done to verify that all boots are compatible with bindings with which they will be used and are all interchangeable in function.
Pre-mounted Binding - A binding that is already mounted on the ski before being delivered to the shop.
Random Sampling - a procedure in which every sampling unit in the inventory has an chance of being included in the sample.
Reference Binding - a unit which is typical of the bindings in inventory.
Reference Boot - a boot which is typical of the boots in inventory.
Reference Value - the nominal release torque value derived from a document compatible with ASTM or ISO such as the information supplied by the binding or test device manufacturer.
Release - the process by which the boot is allowed to separate from the ski.
Release/Retention cycle - The mechanical process by which the boot or plate is allowed to move off center to resist impact and avoid inadvertent release or to release when necessary.
Retention - the binding's ability to hold the boot on the ski during skiing.
Skier Code - The letter designation (A through O) found on a binding manufacturer's adjustment chart corresponding to a skier's weight, height, age and skier type (Also see Skier Type).
Skier Type - the designations I, II, III that describe a skiers type or style of skiing and/or how the customer prefers the bindings to be adjusted. These are in no way related to skiing skiing ability and it is up to the customer to select one designation.
Sole Dimensions; Adult/Child - The currently accepted standards for sole dimensions. A boot must be used only in a binding that is designed to accept its sole dimensions.
Step-In heel - A binding heel piece that closes automatically to secure the boot heel to the ski.
System - a group of interacting components, usually comprised of a boot, binding and ski, designed to perform a release mechanism.
System Binding - A binding that is slid onto a pre-mounted or integrated track without drilling.
Test Result - the middle quantitative value of three repetitions of the same test.
Tolerance - the accepted difference between two values.
Tolerance, Clean Versus Lubricated - the accepted difference clean and lubricated test results, defined as not more than 20% of clean test, used whenever a Functional Test for boot -binding compatibility is required.
Tolerance, Inspection - the accepted difference between the reference value and the measured value defined as +/- 15% of the reference value, or +/- 3% Nm for twist and +/-10 Nm for forward lean, whichever is greater, used as the criterion for prompting readjustment of the binding whenever a Release Value Inspection Test is conducted.
Tolerance, Inward Versus Outward - the accepted difference between inward and outward measured release values, defined as not more than 18% of the greater value, used whenever a Functional Test for Release Symmetry is required.
Tolerance, Preseason Inspection - the accepted difference between the reference value and the measured value +/- 3 Nm for twist and +/- 10 Nm for forward lean, whichever is greater, used as the criterion for prompting readjustment of the binding whenever a Release Value Inspection Test is conducted (Rental).
Tolerance, Service - the accepted difference between the selected reference torque value and the measured value as observed during the in-season inspection, defined as +/- (0 to 20) % of the selected reference torque value (Rental).
Torque - force times distance. Loads which tend to twist or bend an object.
Travel - The amount of movement, usually measured in millimeters, that the boot moves relative to the ski during the release/retention cycle.
Triggered release - A binding release that takes place as a result of the action of a mech-anism separate from that which controls elastic travel-- in most bindings, release and elastic travel are controlled by a single mechanism.
Turntable heel - A binding heel piece that employs a platform (under the boot heel) which is free to rotate with the boot sole during a twist release. This design is intended to minimize sliding contact between boot and binding at the heel during twist release.

BUILT TOUGH FOR GREAT AMBITIONS

AMBITION PRO

DURABILITY

- PROTECTIVE FRAME DESIGN
- CONCAVE SURFACE WITH RENTAL TOPSHEET
- INTEGRATED TIP PROTECTORS
- NIVYLEN® RUNNING BASE

USABILITY

- RENTAL ROCKER
- PROGRESSIVE RADIUS
- MODERN DESIGN

SYSTEM INTEGRATION

- BYS SYSTEM COLOR CODING
- BINDINGS PRE-MOUNTED AND TESTED
- RENTAL BARCODE HOLDER

V-SHAPE V6 R

ARTICLE NUMBER
316240 LYT PR Base

PRODUCT FEATURES
LYT Tech Construction, ERA 3.0, Graphene, Power Sidewall Jacket Construction, Wood Composite Core, Structured UHM C Base, Allride Rocker

PRODUCT DETAILS

LENGTH	149/156/163/170/177
SIDECUT	132/78/113 @ Length 170
RADIUS	13,5 @ Length 170
PLATE	LYT PR Base
BINDING	114233 PR 11 GW Brake 85 [G]

V-SHAPE V4 XL R

ARTICLE NUMBER
316230 LYT PR Base

PRODUCT FEATURES
LYT Tech Construction, ERA 3.0, Graphene, Power Sidewall Jacket Construction, Light Composite Core, Structured UHM C Base, Allride Rocker

PRODUCT DETAILS

LENGTH	149/156/163/170/177
SIDECUT	135/84/116 @ Length 170
RADIUS	14,5 @ Length 170
PLATE	LYT PR Base
BINDING	114234 PR 11 GW Brake 90 [G]

V-SHAPE V2 R

ARTICLE NUMBER
316220 LYT PR Base

PRODUCT FEATURES
LYT Tech Construction, ERA 3.0, Power Fiber Jacket Construction, Synthetic Core, Structured UHM C Base, Allride Rocker

PRODUCT DETAILS

LENGTH	142/149/156/163/170
SIDECUT	128/70/108 @ Length 170
RADIUS	12,4 @ Length 170
PLATE	LYT PR Base
BINDING	114233 PR 11 GW Brake 85 [G]

SHAPE SX R

ARTICLE NUMBER
316410 LYT PR Base

PRODUCT FEATURES
Allride Rocker, ERA 3.0, Structured Surface, Graphene Sandwich Cap Construction, Black UHM C Base

PRODUCT DETAILS

LENGTH	149/156/163/170/177
SIDECUT	125/72/109 @ Length 170
RADIUS	12,9 @ Length 170
PLATE	LYT PR Base
BINDING	114233 PR 11 GW Brake 85 [G]

SHAPE VX R

ARTICLE NUMBER
316310
316320 Trackset SP adult 85
316330 LYT PR Base
316340 SLR Pro R Base

PRODUCT FEATURES
ERA 2.0, Protective Frame Design, Integrated Tip Protector, Composite Radius Construction, Structured Surface, Power Fiber Jacket Construction, Black Nivylen® Base

PRODUCT DETAILS

LENGTH	130/140/150/160/170
SIDECUT	130/75/110 @ Length 170
RADIUS	13,3 @ Length 170
BINDING	114391 SP 10 GW Brake 85 [D]

SHAPE NX R

ARTICLE NUMBER
316370 LYT PR Base
316380 Trackset SP adult 85

PRODUCT FEATURES
LYT Tech Construction, ERA 3.0, Power Fiber Jacket Construction, Structured Surface, Wood Composite Core, Black UHM C Base, Allride Rocker

PRODUCT DETAILS

LENGTH	142/149/156/163/170
SIDECUT	128/70/108 @ Length 170
RADIUS	12,4 @ Length 170
BINDING	114233 PR 11 GW Brake 85 [G]

LIGHT JOY R

ARTICLE NUMBER
316460 SLR Pro R Base

PRODUCT FEATURES
LYT Tech Construction, ERA 3.0, Graphene, Women´s Camber, Superlightweight Distribution , Power Sidewall Jacket Construction, Synthetic Core, Structured UHM C Base, Allride Rocker

PRODUCT DETAILS

LENGTH	143/148/153/158/163
SIDECUT	130/73/107 @ Length 158
RADIUS	10,9 @ Length 158
PLATE	SLR Pro R Base
BINDING	114240 SLR 9.0 GW Brake 85 [H]

EASY JOY R

ARTICLE NUMBER
316480 SLR Pro R Base

PRODUCT FEATURES
LYT Tech Construction, ERA 3.0, Power Fiber Jacket Construction, Synthetic Core, Structured UHM C Base, Allride Rocker

PRODUCT DETAILS

LENGTH	143/148/153/158/163
SIDECUT	124/69/105 @ Length 158
RADIUS	10,7 @ Length 158
PLATE	SLR Pro R Base
BINDING	114240 SLR 9.0 GW Brake 85 [H]

AMBITION PRO R

ARTICLE NUMBER
316569 Trackset SP adult 85
316589 BYS Black
316599 BYS Yellow

PRODUCT FEATURES
ERA 2.0, Protective Frame Design, Integrated Tip Protector, Composite Radius Construction, Structured Surface, Woodcore Cap Construction, Black Nivylen® Base

PRODUCT DETAILS

LENGTH	140/150/160/170/180
SIDECUt	130 / 78 / 110 @ 150cm
RADIUS	10,6 @ 150cm
PLATE	Trackset SP adult 85
BINDING	114393 SP 10 GW PM

AMBITION R

ARTICLE NUMBER
316439 Trackset SP adult 85
316449 BYS Black
316459 BYS Yellow

PRODUCT FEATURES
ERA 2.0, Protective Frame Design, Integrated Tip Protector, Composite Radius Construction, Structured Surface, Power Fiber Jacket Construction, Black Nivylen® Base

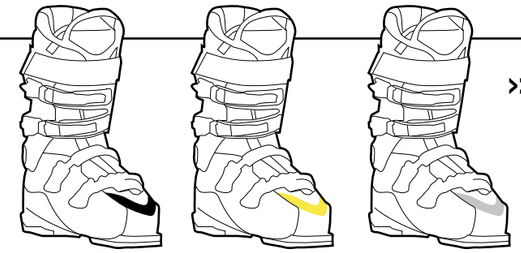
PRODUCT DETAILS

LENGTH	130/140/150/160/170
SIDECUT	130 / 75 / 110 @ 150cm
RADIUS	9,8 @ 150cm
PLATE	Trackset SP adult 85
BINDING	114393 SP 10 GW PM

HOW DOES IT WORK?

BYS 3 SOLE LENGTHS FOR ALL SKIBOOT SIZES

SKIBOOT



289mm
23.0 - 26.0

329mm
27.0 - 30.0

365mm
31.0 - 34.0

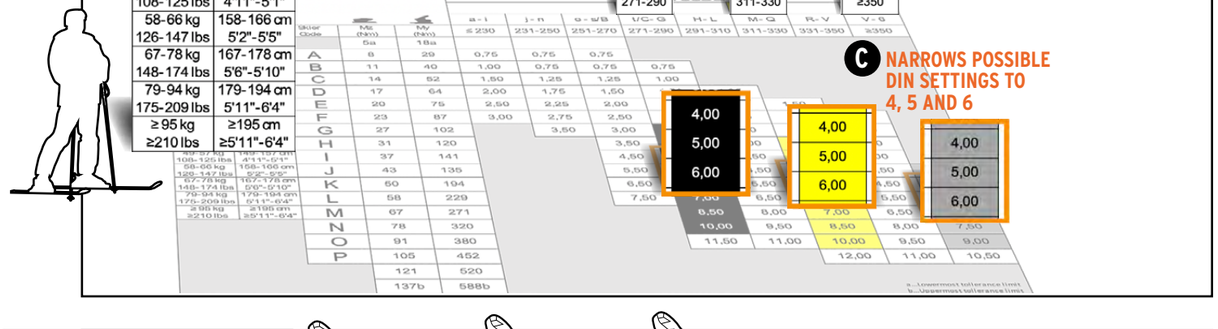
They are marked with black, yellow and silver color codes. HEAD ski boots are available as a fleet oras a high performance version.

>>> BY SELECTING ONLY THE SKIBOOT THE CORRECT SKISET IS AUTOMATICALLY CHOSEN.

B MOST COMMON WEIGHTS AN HEIGHTS

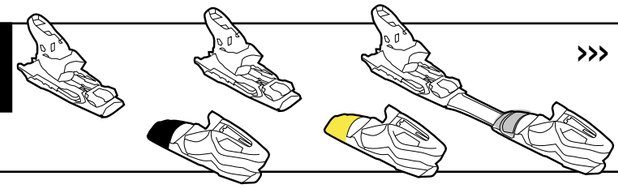
49-57 kg 108-125 lbs	149-157 cm 4'11"-5'1"
58-66 kg 126-147 lbs	158-166 cm 5'2"-5'5"
67-78 kg 148-174 lbs	167-178 cm 5'6"-5'10"
79-94 kg 175-209 lbs	179-194 cm 5'11"-6'4"
≥ 95 kg ≥210 lbs	≥195 cm ≥5'11"-6'4"

A ONLY 3 BOOTSOLE LENGTHS



C NARROWS POSSIBLE DIN SETTINGS TO 4, 5 AND 6

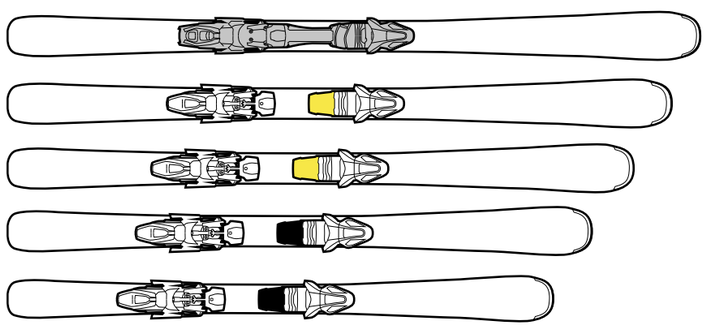
BINDING



>>> THE COLOR CODE SPEEDS UP THE SELECTION OF MATCHING THE BINDING WITH THE BOOT.

SKI

HEAD skis are availabe in 5 different sizes. Ambition Pro woodcore, 140cm to 180cm and Ambition PU core, 130cm to 170cm. All skis can be used with the BYS System.



>>> WITH COLOR CODES, YOU CAN EASILY IDENTIFY THE RIGHT HEAD SETUP IMMEDIATELY. ALL SETTINGS ARE PRE-ADJUSTED.

AMONG THE BINDINGS YOU CAN CHOOSE BETWEEN THE COLOR CODED FIX MOUNTED TOE- AND HEEL-PIECE OR THE ADJUSTABLE SP BINDING (TRACK SYSTEM).

ORGANIZING YOUR FLEET NOT ONLY BY SIZE BUT ALSO BY PRESET DIN SETTINGS (4, 5, AND 6) WILL ALLOW YOU TO SPEED UP YOUR PROCESS.

RAZZLEDAZZLE ■

ARTICLE NUMBER
312990 SP 10 GW

PRODUCT FEATURES
SnakeSkin Top Sheet, Full Fiber Jacket, E base black, Pre-mounted SP 10 GW Binding

PRODUCT DETAILS

LENGTH	94
SIDECUT	129 / 90 / 118 @ Length 94
RADIUS	4,2 @ Length 94
BINDING	114395 SP 10 GW Brake 110 [D]

SUPERSHAPE TEAM EASY R ■

ARTICLE NUMBER
316631 JRS R, Length 67/77/87/97/107/117/127/137/147/157
316721 HRS ▲, Length 67/77/87
316731 HRS ■, Length 77/87/97
316741 HRS ♦, Length 87/97/107
316751 HRS ○, Length 107/117
316641 R, Length 67/77/87/97/107/117/127/137/147/157

PRODUCT FEATURES
Jr. Power Frame, ERA 2.0, Structured Surface, Black UHM C Base

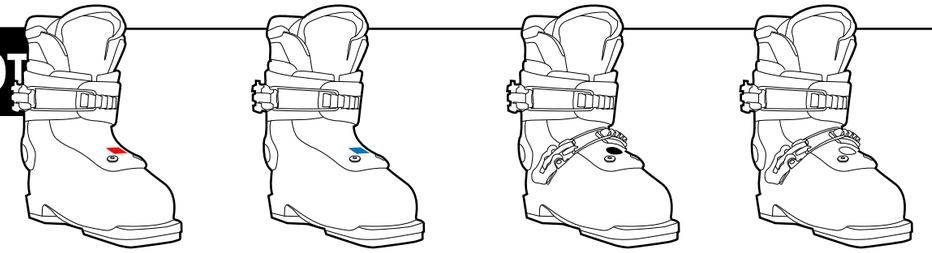
PRODUCT DETAILS

LENGTH	67/77/87/97/107/117/127/137/147/157
SIDECUT	103/65/89 @ Length 87
RADIUS	4,0 @ Length 87
PLATE	JRS Base R
BINDING	114470 JRS 7.5 GW CA Brake 78 [H]

HOW DOES IT WORK?

HRS JR 4 SOLE LENGTHS FOR ALL JR BOOT SIZES

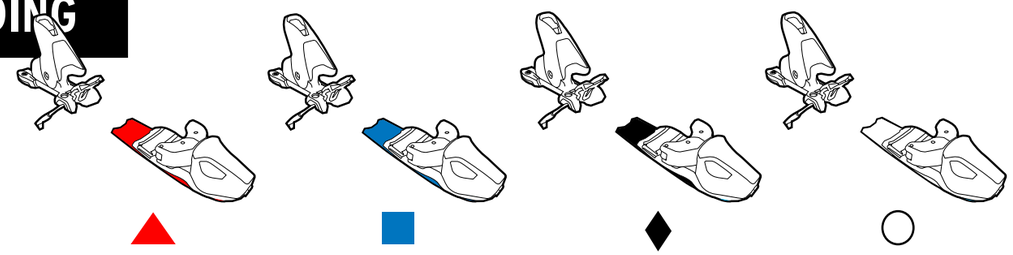
SKIBOOT



Z1 HRS 15.5 - 16.5 ▲ | Z1 HRS 17.7 - 18.5 ■ | Z2 HRS 19.5 - 20.5 ♦ | Z2 HRS 21.5 - 22.5 ○

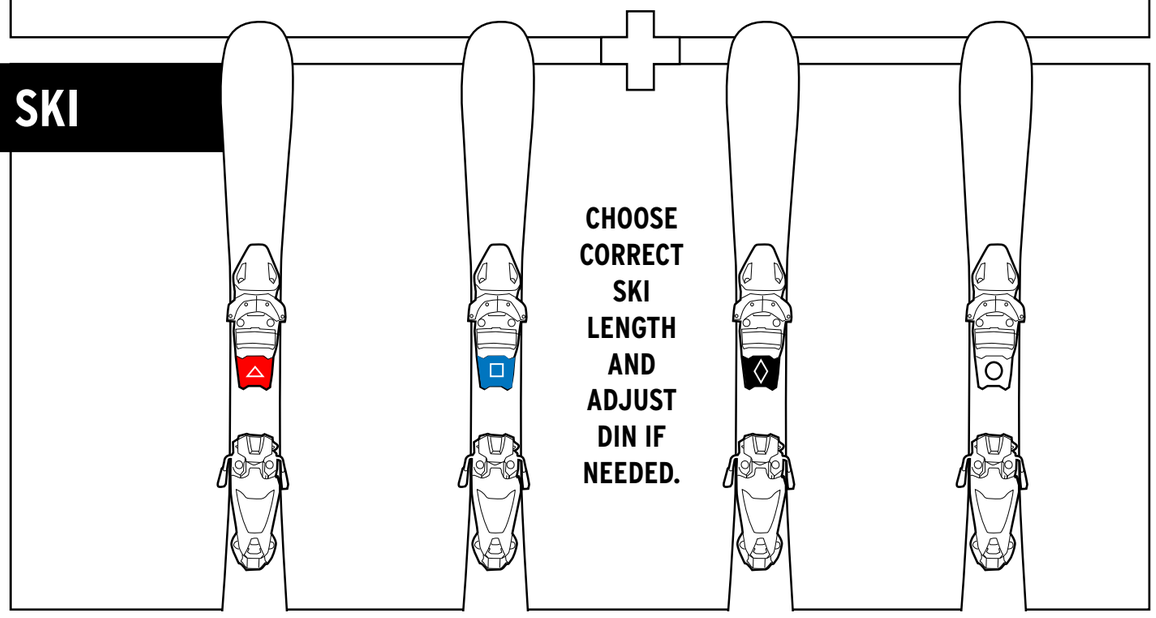
4 COLOR AND SYMBOL CODED BOOTS COVER 8 SIZES.

BINDING



CHOOSE MATCHING COLOR AND SYMBOL BINDING. NO ADJUSTMENT REQUIRED.

SKI



CHOOSE CORRECT SKI LENGTH AND ADJUST DIN IF NEEDED.

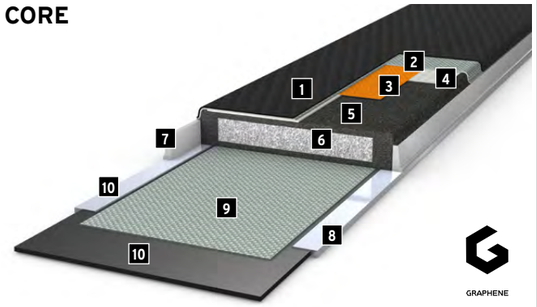
RENTAL SOLUTIONS

HEAD RENTAL SKI - CONSTRUCTIONS

SUPERLITE POWER SIDEWALL JACKET COMPOSITE CORE

To make this construction even lighter, material from the heart has been replaced by a lighter material and a layer of Graphene has been inserted to not only insure the performance is unchanged but actually increased, as the overall thickness of the core is reduced, making it a composite that is easy and forgiving, but always precise.

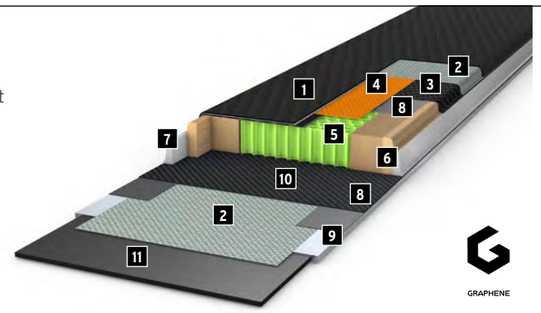
1 Top Sheet
2 Glass Fiber
3 Graphene
4 Diagonal Glass Fiber
5 Synthetic Core
6 Lite Core
7 Sidewall
8 Edge
9 Reinforced Glass Fiber
10 Base



GKC SUPERLITE SANDWICH CAP CONSTRUCTION

Developed from the most sophisticated materials known to man: the super light sandwich construction makes it possible to build one of the world's lightest freeride skis by utilizing GRAPHENE, KOROYD and CARBON, as well as replacing the surface with a polyester fleece without compromising performance. The ultimate construction for a high performing freeride ski.

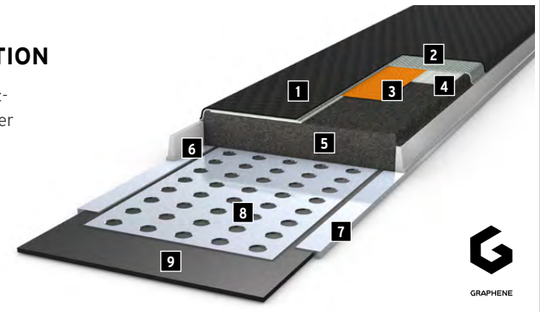
1 Polyester Fleece
2 Glass Fiber
3 Glass Fiber bk
4 Graphene
5 Koroyd
6 Karuba-Poplar Wood Core
7 Sidewall
8 Dampening Layer
9 Edge
10 Carbon
11 Base



SUPERLITE POWER SIDEWALL JACKET CONSTRUCTION

A synthetic injected core supported with ABS sidewalls. This superlite construction thanks to GRAPHENE allows for a soft longitudinal flex coupled with a super responsive torsional flex, thanks to the sidewall jacket.

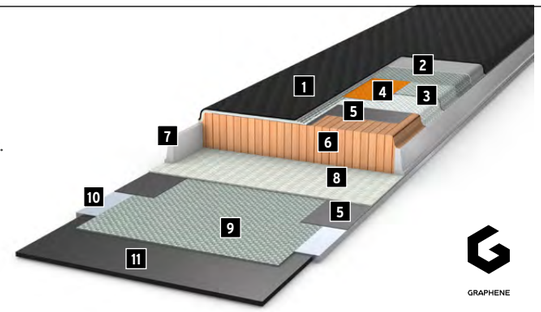
1 Top Sheet
2 Glass Fiber
3 GRAPHENE
4 Diagonal Glass Fiber
5 Synthetic Core
6 Sidewall
7 Edge
8 Perforated Steel Layer
9 Base



SUPERLITE SANDWICH CAP CONSTRUCTION

Thanks to the unique properties of Graphene, the Superlite Sandwich Cap Construction has had a reduction in the materials inserted with an increase in its responsiveness, allowing faster and more precise change form edge to edge. The ultimate ski for flotation and responsiveness.

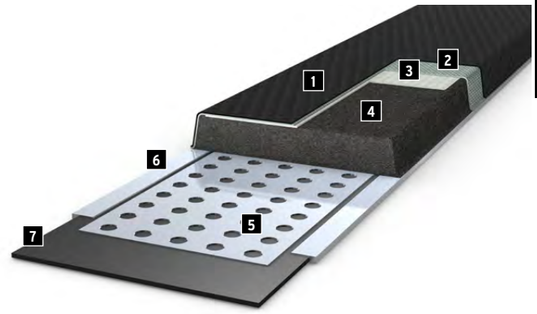
1 Top Sheet
2 Glass Fiber Fleece
3 Glass Fiber
4 Graphene
5 Dampening Layer
6 Wood Core
7 Sidewall
8 Diagonal Glass Fiber
9 Reinforced Glass Fiber
10 Edge
11 Base



POWER FIBER JACKET CONSTRUCTION

This lightweight synthetic core construction is perfect for easy turns on an entry level.

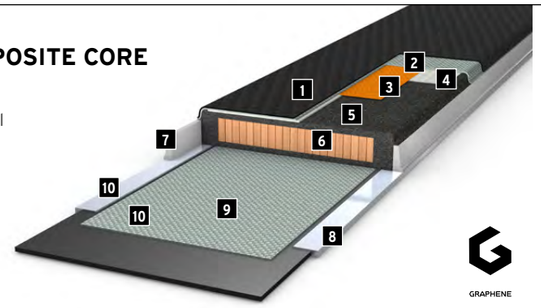
1 Top Sheet
2 Glass Fiber
3 Diagonal Glass Fiber
4 Synthetic Core
5 Perforated Steel Layer
6 Edge
7 Base



SUPERLITE POWER SIDEWALL JACKET WOOD COMPOSITE CORE

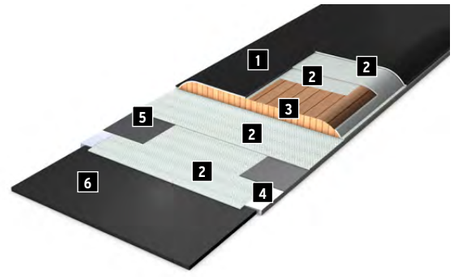
A vertically laminated wood core with a PU injected sock around it. The Cap constructions with ABS Sidewalls insures complete protection from mechanical damage. The wood insures stability against vibrations and a smooth ride for target groups looking for ambitous performance.

1 Top Sheet
2 Glass Fiber
3 Graphene
4 Diagonal Glass Fiber
5 Synthetic Core
6 Wood Core
10 Base Sidewall
8 Edge
9 Reinforced Glass Fiber



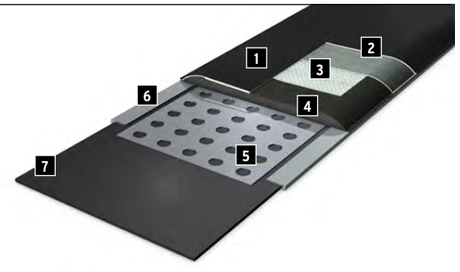
AMBITION PRO

1 Top Sheet
2 Glass Fiber
3 Wood Core
4 Edge
5 Dampening Layer
6 Base



AMBITION

1 Top Sheet
2 Glass Fiber
3 Diagonal Glass Fiber
4 Synthetic Core
5 Perforated Steel Layer
6 Edge
7 Base

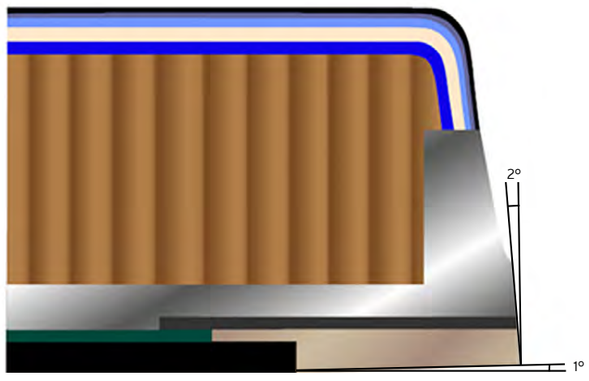


Rental Ski

TUNING

WHICH EDGE ANGLES DOES HEAD USE IN ITS PRODUCTION?

Especially on shaped skis, where most of the steering is done by the edges, smooth and sharp edges are essential. Only a well-tuned pair of skis with flat and well waxed bases will glide and turn easy. Maintaining the skis will assure that your customer will enjoy his time on the slopes. The most proven angular measure-ment is a production standard: On the base side the edges are beveled by 1.0°, laterally they are relief-ground at approximately 2°.



SHOULD THE EDGES BE DULLED AT THE FRONT AND BACK?

Carving skis develop their best skiing properties when shovel and tail grip the snow perfectly which requires a continuously sharp edge. Dulling the edge would produce the opposite effect. Modern skis should be skied on the edges as much as possible and skidding should be avoided. An exception can be made for beginners and very cautious skiers by dulling the edge on the ski heels up to a maximum of 10 cm for easier skidding.

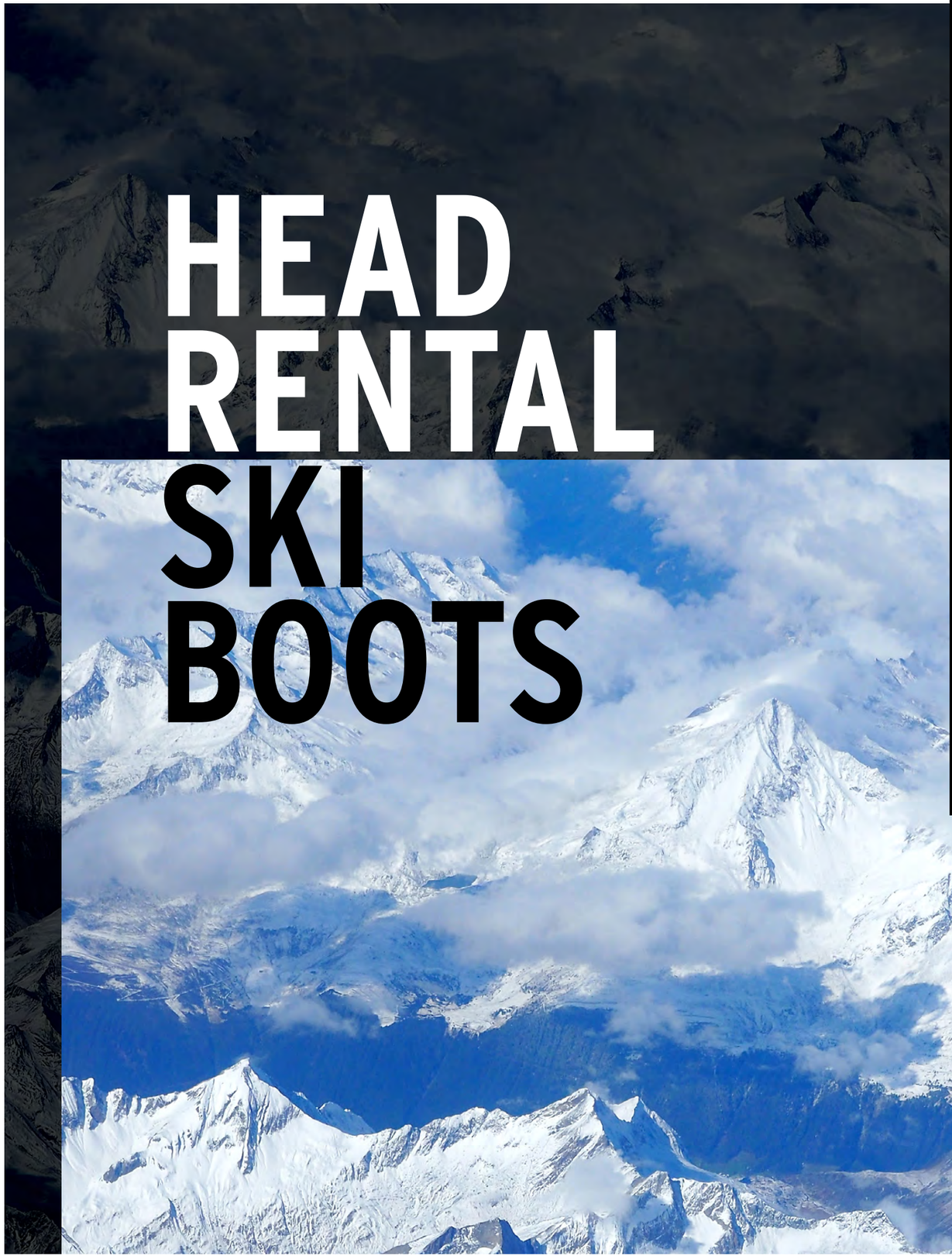
TIP:

If the base of the ski is ground by machine (stone-grinding), it is imperative that the side edge be ground too, in order to remove the resulting burr. It is nearly impossible to ski on alpine skis with a burr. The edge should be beveled by 2° and polished on the base side as otherwise the ground-in texture would inhibit gliding and turning.

TO BE CHECKED WHEN TAKING RETURNS:

Besides recording the return of the equipment it is important to evaluate the condition the equipment is in. First ask the customer for his feedback. He will know if he had problems on the snow! Then verify that all parts of the binding are undamaged, check the edges (carefully, because burrs cut skin very easily!) and bases. The table below shows you the recommended maintenance to be performed by a tuning shop.

	IMMEDIATE REPAIR	MAINTENANCE
EDGE	• loose edges • broken out edges	• Visible burrs on the edge • rust on edges • dull edges
BASE	• cuts or tears through base or top sheet exposing the core	• visible scratches on the base • grey, fibrous areas on the base • no homogenous structure



RENTAL SOLUTIONS

TECH FEATURES

SHELL

PU SHELL ON ALL MODELS (INCLUDING "Z1, Z2, Z3" JUNIOR BOOTS).
More resistant material for longer service

TAMPO PRINTED SINGLE CODE WITH MM INDICATION AVAILABLE ON ALL MODELS
In the single code we have added the sole length. This helps you to quickly identify the sole length of the boot for quicker binding adjustments.

HIGH RESISTANCE PU HEEL AND TOE

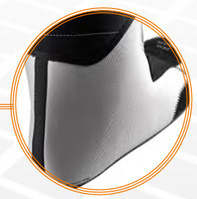
BAR CODE STICKERS AVAILABLE ON ALL MODELS

BAR CODE HOLDER ON ALL MODELS FEATURING VELCRO STRAP

LINER

SANITIZED® CHARCOAL FOOTBED; CHARCOAL FOOTBED
To absorb moisture, neutralize odour and to improve sanitation.

REINFORCED UPPER FOR REINFORCED STEP IN



BUCKLES

SCREWED BUCKLE ON NEXO

REINFORCED BUCKLES FOR ADDED DURABILITY

BYS

EZON 2 BYS:
1 sole length, 2 shells, 2 sizes per shell. Boot sole: 365mm

NEXT EDGE BYS:
2 sole lengths, 4 shells, 2 sizes per shell. Boot Soles: 289mm and 329mm

BYS:
3 sole lengths, 6 shells, 2 sizes per shell. Boot Soles: 289mm, 329mm, and 365mm

NEXO LYT 11 R

ARTICLE NUMBER
600610 Trs. anthr./black

PRODUCT FEATURES
Smart frame, Duo Flex, Stiffer/ softer flex adjust , Single Canting

LINER
Rental Perfect fit S, Stiffer upper, Sanitized® charcoal footbed, HP frame footbed, 40 mm power strap

BUCKLES
4 screwed micro-adjustable alloy buckles, Low profile buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Expert
FLEX	110/100
SIZES	250-...-305
SHELL	PU
LAST	S 1850cc

Last	98	100	102
Size	25.5	26.5	27.5

NEXO LYT 10 R

ARTICLE NUMBER
600619 Trs. anthr./black

PRODUCT FEATURES
Smart frame, Duo Flex, Stiffer/ softer flex adjust , Single Canting

LINER
Rental Perfect fit S, Stiffer upper, Sanitized® charcoal footbed, HP frame footbed, 40 mm power strap

BUCKLES
4 screwed micro-adjustable alloy buckles, 1 Supermacro ratchet, Low profile buckles

PRODUCT DETAILS

LEVEL	Advanced
FLEX	100/90
SIZES	250-...-305
SHELL	PU
LAST	S 1850cc

Last	98	100	102
Size	25.5	26.5	27.5

NEXO LYT 9W R

ARTICLE NUMBER
600613 Trs. anthr./black

PRODUCT FEATURES
Smart frame, Duo Flex, Stiffer/ softer flex adjustment, Single Canting, Women double adjustable cuff

LINER
Rental Perfect fit S W, Stiffer upper, Sanitized® charcoal footbed, HP frame footbed, 30 mm power strap

BUCKLES
4 screwed micro-adjustable alloy buckles, Low profile buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Expert
FLEX	90/80
SIZES	230-...-275
SHELL	PU
LAST	S 1850cc

Last	96	98	100
Size	24.5	25.5	26.5

NEXO LYT 8W R

ARTICLE NUMBER
600621 Trs. anthr./black

PRODUCT FEATURES
Smart frame, Duo Flex, Stiffer/ softer flex adjustment, Single Canting, Women double adjustable cuff

LINER
Rental Perfect fit S W, Stiffer upper, Sanitized® charcoal footbed, HP frame footbed, 30 mm power strap

BUCKLES
4 screwed micro-adjustable alloy buckles, Low profile buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Advanced
FLEX	80/70
SIZES	220-...-275
SHELL	PU
LAST	S 1850cc

Last	96	98	100
Size	24.5	25.5	26.5

RENTAL SOLUTIONS

EDGE LYT 8R

ARTICLE NUMBER
600650 Trs. anthr./black
600655 Blue/black

PRODUCT FEATURES
Smart frame Hi-Top tech, Duo flex, Easy entry shell design, Single canting, Adjustable rear spoiler

LINER
Rental Comfort Stiffer upper, Sanitized® charcoal footbed, 40mm power strap

BUCKLES
4 micro-adjustable alloy buckles, 1 Supermacro ratchet, Low profile buckles

PRODUCT DETAILS

LEVEL	Intermediate
FLEX	85
SIZES	250-...-340
SHELL	PU/SL
LAST	C 2100cc

Last	100	102	104
Size	25.5	26.5	27.5

EDGE LYT 7W R

ARTICLE NUMBER
600671 Blue/anthr.
600670 Trs. anthr./black

PRODUCT FEATURES
Smart frame Hi-Top tech, Duo flex, Easy entry shell design, Single canting, Women double adjustable cuff

LINER
Women's Rental Comfort, Stiffer upper, Women auto adaptive tech., Sanitized® charcoal footbed, 30mm power strap

BUCKLES
4 micro-adjustable alloy buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Intermediate
FLEX	75
SIZES	220-...-275
SHELL	PU/SL
LAST	C 2100cc

Last	98	100	102
Size	24.5	25.5	26.5

HEAD head TYROLIA

ADVANT EDGE 75 R

ARTICLE NUMBER
609665 Anthr./black

PRODUCT FEATURES
Bi-Inj. control frame, Hi-Top tech, Duo flex, Easy entry shell design, Stiffer/softer flex adjust., Single canting, Adjustable rear spoiler

LINER
Rental Comfort, Stiffer upper, Sanitized® charcoal footbed, 40mm power strap

BUCKLES
4 plastic buckles, 1 Supermacro ratchet, Low profile buckles

PRODUCT DETAILS

LEVEL	Intermediate
FLEX	75
SIZES	250-...-305
SHELL	PU/SL
LAST	C 2100cc

Last	100	102	104
Size	25.5	26.5	27.5

ADVANT EDGE 65 W R

ARTICLE NUMBER
609675 Anthr./black

PRODUCT FEATURES
Bi-Inj. control frame, Hi-Top tech, Duo flex, Easy entry shell design, Single canting, Women double adjustable cuff

LINER
Rental Comfort W, Stiffer upper, Women auto adaptive tech, Sanitized® charcoal footbed, 30mm power strap

BUCKLES
4 plastic buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Intermediate
FLEX	65
SIZES	230-...-275
SHELL	PU/SL
LAST	C 2100cc

Last	98	100	102
Size	24.5	25.5	26.5

CUBE3 70 R

ARTICLE NUMBER
608545 Anthr./black

PRODUCT FEATURES
Integrated autoskiwalk

LINER
Rental Comfort quick entry, Sanitized® charcoal footbed, 35 mm velcro strap

BUCKLES
2 micro-adjustable plastic buckles, 1 micro-adjustable wide-body alloy buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Intermediate
FLEX	70
SIZES	250-...-305
SHELL	PU/SL
LAST	EC 2200cc

Last	100	104	106
Size	25.5	26.5	27.5

CUBE3 60 W R

ARTICLE NUMBER
608548 Anthr./black

PRODUCT FEATURES
Integrated autoskiwalk

LINER
Rental Comfort quick entry W, Sanitized® charcoal footbed, 35 mm velcro strap

BUCKLES
2 micro-adjustable plastic buckles, 1 micro-adjustable wide-body alloy buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Intermediate
FLEX	60
SIZES	230-...-265
SHELL	PU/SL
LAST	EC 2200cc

Last	100	102	104
Size	24.5	25.5	26.5

EZON 2 BYS HP R

ARTICLE NUMBER
600680 Black

PRODUCT FEATURES
1 sole lenghts, DIN interface for all rental bindings

LINER
Rental Comfort , Sanitized® charcoal footbed, Prepared for heating system

BUCKLES
4 micro-adjustable plastic buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Beginner
SIZES	310-320-330-340 man constr.
SHELL	PU/SL

B.Y.S. R

ARTICLE NUMBER
600685 Anthracite/black

PRODUCT FEATURES
3 sole Lenghts, DIN interface for all rental bindings

LINER
Rental Comfort, Sanitized® charcoal footbed, Prepared for heating system

BUCKLES
3 micro-adjustable plastic buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Beginner
SIZES	235-...-340
SHELL	PU/SL

NEXT EDGE B.Y.S. 80 R

ARTICLE NUMBER
600675 Black

PRODUCT FEATURES
Tri-Inj. Energy frame, Easy entry shell design, Double canting, 2 sole lenght.

LINER
Rental Comfort, Sanitized® charcoal footbed

BUCKLES
4 micro-adjustable plastic buckles, 1 Supermacro ratchet

PRODUCT DETAILS

LEVEL	Beginner
FLEX	80
SIZES	235-245 woman constr.
	250-...305 man constr.
SHELL	PU/SL
LAST	C 2100cc

RAPTOR 50 R

ARTICLE NUMBER
609680 Anthracite / white

PRODUCT FEATURES
Jr racing flex tuning, Adult norm (size 220 up)

LINER
Junior Team, Self-shaping footbed

BUCKLES
4 plastic buckles

PRODUCT DETAILS

LEVEL	Intermediate
SIZES	200-210-220-...-265
SHELL	PU/SL

RAPTOR 40 R

ARTICLE NUMBER
600690 Anthracite / white

PRODUCT FEATURES
Jr racing flex tuning, Adult norm

LINER
Junior Team , Self-shaping footbed

BUCKLES
3 plastic buckles

PRODUCT DETAILS

LEVEL	Beginner
SIZES	185-190-...-235
SHELL	PU/SL

HEAD BOOTS SINGLE CODE 2021.22

Z3 R

ARTICLE NUMBER
607340 Anthracite / white

BUCKLES
3 plastic buckles

PRODUCT FEATURES
Jr high top tech, Duo flex,Vario last, Easy entry shell construction, Junior norm, Design your boot stickers

PRODUCT DETAILS

LEVEL	Beginner
SIZES	235-245-255-265
SHELL	PU/SL

LINER
Junior liner, Tongue handle, Comfort footbed

Z2 R

ARTICLE NUMBER
607342 Anthracite / white

BUCKLES
2 plastic buckles

PRODUCT FEATURES
Jr high top tech, Duo flex,Vario last, Easy entry shell construction, Junior norm, Design your boot stickers

PRODUCT DETAILS

LEVEL	Beginner
SIZES	195-205 (HRS ♦)
	215-225 (HRS ○)
SHELL	PU/SL

LINER
Junior liner, Tongue handle, Comfort footbed

Z1 R

ARTICLE NUMBER
607344 Anthracite / white

BUCKLES
1 plastic buckle

PRODUCT FEATURES
Jr high top tech, Duo flex, Vario last, Easy entry shell construction, Junior norm, Design your boot stickers

PRODUCT DETAILS

LEVEL	Beginner
SIZES	155-165 (HRS ▲)
	175-185 (HRS ■)
SHELL	PU/SL

LINER
Junior liner, Tongue handle, Comfort footbed

MODEL SIZE	CUBE R CUBE W R	NEXO LYT R NEXO LYT W R ADVANT EDGE R ADVANT EDGE W R	EDGE LYT R EDGE LYT W R	EZON 2 B.Y.S. R B.Y.S. R NEXT EDGE B.Y.S. R	RAPTOR 50 R RAPTOR 40 R	Z R
150						c
155						c
160						c
165						c
170						h
175						h
180					h	h
185					h	h
190					k	m
195					k	m
200					m	m
205					m	m
210					p	r
215					p	r
220		C	D		A	r
225		C	D		A	r
230	E	C	D	G	D	F
235	E	C	D	G	D	F
240	H	F	G	G	F	F
245	H	F	G	G	F	F
250	J	H	I	G	I	I
255	J	H	I	G	I	I
260	M	K	L	G	K	K
265	M	K	L	G	K	K
270	O	M	N	Q	N	
275	O	M	N	Q	N	
280	R	P	Q	Q		
285	R	P	Q	Q		
290	T	R	S	Q		
295	T	R	S	Q		
300	W	U	V	Q		
305	W	U	V	Q		
310	1	Y	Z	Z		
320	1	Y	Z	Z		
330		4	5	Z		
340		4	5	Z		

RENTAL BOOTS FITTING BASICS

1. CHECK THE SIZE

Ski boots are measured on a Mondo point scale, which is based on the length of your foot measured in centimeters. This measurement is the exact length of a foot from toe to heel.

2. CHECK YOUR CUSTOMER SOCKS

One of the most important things to remember is that ski socks have a big influence on skiing performance and the fit of the boot. Thicker socks generally limit blood circulation and provide less warmth, while a thinner sock will offer greater sensitivity and precision in control. They should be dry, thin, tight and preferably made of a synthetic/wool blend, with a pattern that's not too heavy.

3. HOW TO STEP IN AND CHECK THE FIT

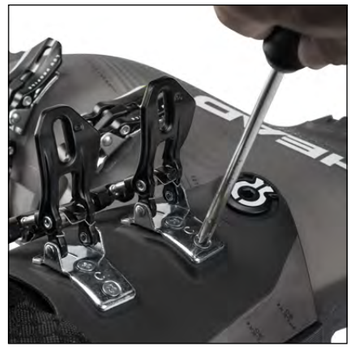
STEP IN

- HEAD ski boots are designed with an easy entry shell to help you to step in and out easily with no pain.
- HEAD advises you to store your boot in a warm and dry area to keep the plastic soft.
- Unbuckle the boot completely and make sure that the buckles aren't stuck in the ratchet.
- Most of the boots have a loop on the tongue to help you pull it up. Step in your ski boots and slide your foot in, by gently pulling the tongue of the liner up and towards the outside of the shell.

CHECK THE FIT

- Tap the heel of the boot on the floor, making sure your heel is correctly positioned in the back of the boot.
- Stand in a skiing position and flex the boot a few times, spend some time in a ski stance with your feet parallel and walk around the room.
- If your fit is too loose, tighten the buckles further. If your feet are still moving backwards and forwards while walking with the buckles are completely tightened, then the boot is too big and you should downsize.
- If your toes are still pushing against the end of the liner after completing the steps above, then you should move to a larger size boot.
- To avoid pressure points, boot buckles should never be overly tightened.
- Head inner boot will adapt to your foot over time, so look for a comfortable fit.

REPAIR AND CARE



REPLACEMENT OF BUCKLES AND BUCKLE TEETH

If buckles and/or buckle teeth require replacement, proceed as follows:
Should the buckles be mounted with rivets, they must be removed with a 6 mm drill.
If the buckles are mounted with screws, simply unscrew them with a screwdriver.

1. Secure the new buckles (or buckle teeth) with a clamp on the shell.
2. Screw the buckles on with the enclosed screws and nuts.
3. Make sure the screws are properly tightened.

REPLACEMENT OF VELCRO STRAP

Replacement of the Velcro strap is very easy.

1. Take inner boot out from the shell.
2. If the Velcro strap is mounted with a rivet, use a 4 mm drill to remove it from the inside of the shell. Take out the rivet and remove the old Velcro strap.
3. Secure the new Velcro strap with the enclosed screws and nuts.

REPLACEMENT OF HEELS

Replacement of heels is especially important for rental shops.

1. Unscrew the worn heels and remove them. If the screws cannot be unscrewed with a screwdriver, use a side cutter to remove them.
2. Put the new heels on the boot and secure them with the enclosed screws.

CARE: Observe the following rules to avoid damage or excess wear of material and mechanisms.

- Use only water for cleaning the ski boots.
- Do not use chemicals for cleaning.
- After skiing, do not dry the inner boot in front of heat sources, such as heaters, open fireplaces, etc.
- Let the ski boot dry thoroughly before storing them for prolonged periods.
- Store the ski boots with open mechanisms and (loosely) closed buckles.
- Keep the ski boots in a dry place, ideally in their original packaging.

SPARE PARTS - RENTAL BOOTS

MODEL	SHORT BUCKLE	LONG BUCKLE	HEEL SET	VELCRO STRAP	BAR CODE HOLDER	BAR CODE LABEL	EXTENSION BUCKLE
NEXO LYT 11 R A.No. 600610 	a R 60119557 5648 L 60119558 5648	b R 60119559 5648 L 60119560 5648 c R 60120249 5648 L 60120250 5648 d R 60120249 5648 L 60120250 5648	60118736 0014	velcro 60120325 656466 from 250 up to 265 velcro 60120325 656469 from 270 up to 285 velcro 60120325 656472 from 290 up to 305	60117562	60113120	60112657
NEXO LYT 9 W A.No. 600613 	a R 60119553 6134 L 60119554 6134	b R 60119555 6134 L 60119556 6134 c R 60119622 6134 L 60119623 6134 d R 60119622 6134 L 60119623 6134	60118736 0014	velcro 60120326 656962 from 250 up to 265 velcro 60120326 656966 from 270 up to 285 velcro 60120326 656969 from 290 up to 305	60113118	60113120	-
NEXO LYT 10 R A.No. 600619 	a R 60119557 5648 L 60119558 5648	b R 60119559 5648 L 60119560 5648 c R 60120249 5648 L 60120250 5648 d R 60120249 5648 L 60120250 5648	60118736 0014	velcro 60120325 656466 from 250 up to 265 velcro 60120325 656469 from 270 up to 285 velcro 60120325 656472 from 290 up to 305	60117562	60113120	60112657
NEXO LYT 8 W A.No. 600621 	a R 60119553 6134 L 60119554 6134	b R 60119555 6134 L 60119556 6134 c R 60119622 6134 L 60119623 6134 d R 60119622 6134 L 60119623 6134	60118736 0014	velcro 60120326 656962 from 250 up to 265 velcro 60120326 656966 from 270 up to 285 velcro 60120326 656969 from 290 up to 305	60113118	60113120	-
EDGE LYT 8 R A.No. 600650 	a R 60119557 5648 L 60119558 5648	b R 60119559 5648 L 60119560 5648 c R 60120249 5648 L 60120250 5648 d R 60120249 5648 L 60120250 5648	60118736 0014	velcro 60121113 661763 from 250 up to 265 velcro 60121113 661766 from 270 up to 285 velcro 60121113 661769 from 290 up to 305	60117562	60113120	-
EDGE LYT 8 R A.No. 600655 	a R 60119557 5648 L 60119558 5648	b R 60119559 5648 L 60119560 5648 c R 60120249 5648 L 60120250 5648 d R 60120249 5648 L 60120250 5648	60118736 0014	velcro 60121113 661763 from 250 up to 265 velcro 60121113 661766 from 270 up to 285 velcro 60121113 661769 from 290 up to 305	60117562	60113120	-

SPARE PARTS - RENTAL BOOTS

MODEL	SHORT BUCKLE	LONG BUCKLE	HEEL SET	VELCRO STRAP	BAR CODE HOLDER	BAR CODE LABEL	EXTENSION BUCKLE
EDGE LYT 7 W A.No. 600670 	a R 60119553 6134 L 60119554 6134	b R 60119555 6134 L 60119556 6134 c R 60119622 6134 L 60119623 6134 d R 60119622 6134 L 60119623 6134	60118736 0014	velcro 60120326 591462 from 220 up to 245 velcro 60120326 591466 from 250 up to 265 velcro 60120326 591469 from 270 up to 275	60113118	60113120	-
EDGE LYT 7 W A.No. 600671 	a R 60119553 6134 L 60119554 6134	b R 60119555 6134 L 60119556 6134 c R 60119622 6134 L 60119623 6134 d R 60119622 6134 L 60119623 6134	60118736 0014	velcro 60120326 591462 from 220 up to 245 velcro 60120326 591466 from 250 up to 265 velcro 60120326 591469 from 270 up to 275	60113118	60113120	-
ADVANT EDGE 75 R A.No. 609665 	a R 60120757 5668 L 60120758 5668	b R 60120761 5668 L 60120762 5668 c R 60120763 5668 L 60120764 5668 d R 60120763 5668 L 60120764 5668	60118736 0014	velcro 60119185 613064 from 250 up to 265 velcro 60119185 613066 from 270 up to 285 velcro 60119185 613068 from 290 to 305	60117562 (40MM)	60113120	60112657
ADVANT EDGE 65 W R A.No. 609675 	a R 60120757 6135 L 60120758 6135	b R 60120761 6135 L 60120762 6135 c R 60120763 6135 L 60120764 6135 d R 60120763 6135 L 60120764 6135	60118736 0014	velcro 60119186 563165 from 230 up to 245 velcro 60119186 563169 from 250 up to 275	60113118	60113120	60112657
CUBE 370 R A.No. 608545 	a R 60120757 5668 L 60120758 5668	b R 60120759 5668 L 60120760 5668 c R 60119589 5668 L 60119590 5668	60116923 0014	velcro 60120320 651365 from 260 up to 265 velcro 60120320 651368 from 270 up to 305	60117562	60113120	60117626
CUBE 360 W R A.No. 608548 	a R 60120757 6135 L 60120758 6135	b R 60120759 6135 L 60120760 6135 c R 60119589 6135 L 60119590 6135	60116923 0014	velcro 60120321 651665 from 230 up to 265	60117562	60113120	60112657

SPARE PARTS - RENTAL BOOTS

MODEL	 SHORT BUCKLE	 LONG BUCKLE	 HEEL SET	 VELCRO STRAP	 BAR CODE HOLDER	 BAR CODE LABEL	 EXTENSION BUCKLE
NEXT EDGE B.Y.S. 80 R A.No. 600675 	a R 60120757 5668 L 60120758 5668	b R 60120759 5668 L 60120760 5668 c R 60120763 5668 L 60120764 5668 d R 60120763 5668 L 60120764 5668	60116925 0014	-	-	60113121	60112657
EZON 2 B.Y.S. R A.No. 605740 	a R 60120757 5668 L 60120758 5668	b R 60120759 5668 L 60120760 5668 c R 60120763 5668 L 60120764 5668 d R 60120763 5668 L 60120764 5668	60116936 0014	-	-	60113121	60112657
B.Y.S. R A.No. 605745 	a R 60120757 5668 L 60120758 5668	b R 60120759 5668 L 60120760 5668 c R 60120763 5668 L 60120764 5668 d R 60120763 5668 L 60120764 5668	60116936 0014	-	-	-	60112657
RAPTOR 50 R A.No. 609680 	a R 60118981 1523 L 60118982 1523	b R 60118983 1523 L 60118984 1523 c R 60118985 1523 L 60118986 1523 d R 60118985 1523 L 60118986 1523	60119714 0014 from 200 up to 210 60120181 0014 from 220 up to 265	-	-	60113121	-
RAPTOR 40 R 609681 	a R 60118981 1523 L 60118982 1523	b R 60118983 1523 L 60118984 1523 c R 60118985 1523 L 60118986 1523	60116927 0014 from 185 to 215 60116926 0014 from 220 to 245	-	-	60113121	-

SPARE PARTS - RENTAL BOOTS

MODEL	SHORT BUCKLE	LONG BUCKLE	 HEEL SET	 VELCRO STRAP	 BAR CODE HOLDER	 BAR CODE LABEL	 EXTENSION BUCKLE
Z 3 R A.No. 607340 	a R 60118981 1523 L 60118982 1523	b 60118985 1523 60118986 1523 c 60118985 1523 60118986 1523	60120181 0014	-	-	60113121	-
Z 2 R A.No. 607342 	a R 60118981 1523 L 60118982 1523	b 60118985 1523 60118986 1523	60119714 0014	-	-	60113121	-
Z 1 R A.No. 607344 	-	a 60118985 1523 60118986 1523	60119714 0014	-	-	60113121	-

HEAD RENTAL HELMETS

DEVELOPED AND BUILT FOR RENTAL

› THE NEW CHARTER ‹

THE NEW CHARTER RENTAL HELMET LINE WAS DEVELOPED TO OFFER THE MOST DURABLE AND FUNCTIONAL WINTER SPORTS RENTAL HELMET TO THE MARKET, WHILE NOT LOOKING LIKE A RENTAL HELMET AT THE SAME TIME.

RENTAL GOGGLE RETAINER

A new goggle retainer which does not need any screws and can easily be replaced if needed.

TEXTURED SHELL

The CHARTER features a scratch resistant shell, adding durability and an appealing matte effect.

SPHERE FIT AUTO

The HEAD patented, free hanging Sphere Fit System assures the most comfortable and secure fit. The system adapts itself to any head circumference within the size range, but can be adjusted if needed.

HARD COVERED EARPADS

Protecting the soft parts from external hazards and abrasion.

EASY ADJUST BUCKLE

The buckle is also used to automatically adjust the length of the chin strap, while closing the helmet.

DURABILITY

The CHARTER features a scratch resistant TEXTURED SHELL, adding durability and an appealing matte effect. Combined with the durable HARDSHELL CONSTRUCTION, the HARD COVERED EARPADS and the new RENTAL GOGGLE RETAINER, this helmet is made for rental.

USABILITY

With the new SPHERE FIT AUTO system and the EASY ADJUST BUCKLE the CHARTER can be easily adjusted and provides a perfect fit to any customer. A modern, clean helmet design which does not look like a rental helmet.

SYSTEM INTEGRATION

A subtle but visible COLOR CODING is applied to all models for size identification. In addition to that, each model features a unique BARCODE, which is easy to access but not visible on the outside.

CHARTER SR

ARTICLE NUMBER

329311 CHARTER SR black
329321 CHARTER SR nightblue

SIZES

ADULT	XS/S	52-55 cm
	M/L	56-59 cm
	XL/XXL	60-63 cm

PRODUCT FEATURES

Hardshell Technology,
Textured Shell,
Sphere Fit Auto,
360° Microshell,
Autoadjust Buckle, Rental Goggle Retainer, Rental Color Coding,
EN 1077:2007 Class B

CHARTER JR

ARTICLE NUMBER

329411 CHARTER JR white
329421 CHARTER JR lime 3
29431 CHARTER JR salmon

SIZES

JUNIOR	XXS	48-51 cm
	XS/S	52-55 cm
	M/L	56-59 cm

PRODUCT FEATURES

Hardshell Technology,
Textured Shell,
Sphere Fit Auto,
360° Microshell,
Autoadjust Buckle, Rental Goggle Retainer, Rental Color Coding,
EN 1077:2007 Class B

TRACER

ARTICLE NUMBER

329107 SR black
329207 JR white

SIZES

ADULT	XS/S	52-55 cm
	M/L	56-59 cm
	XL/XXL	60-63 cm
JUNIOR	XXS	48-51 cm
	XS/S	52-55 cm
	M/L	56-59 cm

PRODUCT FEATURES

Hardshell Technology,
Thermal Ventilation,
Rental Goggle Retainer,
SD+D compatible, Rental Color Coding, Rental Size Adjustment,
Speedlock Buckle, EN 1077:2007 Class B

TEN

ARTICLE NUMBER

329607 SR black
329907 JR white

SIZES

ADULT	XS/S	52-55 cm
	M/L	56-59 cm
	XL/XXL	60-63 cm
JUNIOR	XXS	48-51 cm
	XS/S	52-55 cm
	M/L	56-59 cm

PRODUCT FEATURES

Hardshell Technology,
Thermal Ventilation,
Rental Goggle Retainer, Rental Color Coding, Rental Size Adjustment,
Speedlock Buckle, EN 1077:2007 Class B

RENTAL

ARTICLE NUMBER

329513 SR black
329813 JR white

SIZES

ADULT	XS/S	52-55 cm
	M/L	56-58 cm
	XL/XXL	59-64 cm
JUNIOR	XXS	48-51 cm
	XS/S	52-55 cm
	M/L	56-58 cm

PRODUCT FEATURES

Hardshell Technology,
Thermal Ventilation,
Rental Goggle Retainer, Rental Color Coding, Rental Size Adjustment,
EN 1077:2007 Class B

CLEANIE BEANIE PACK

ARTICLE NUMBER

375399 CLEANIE BEANIE PACK - 60 pcs
30 pcs Adult
30 pcs Junior
Dispenser box included

GENERAL INFORMATION

HEAD Wintersport helmets were developed and manufactured to meet the requirements set by European (EN 1077) and/or American (ASTM F 2040) safety standards. The U.S. Consumer Product Safety Commission reports that a ski helmet meeting either of these standards "will provide adequate protection to reduce the risk of head injury."

GENERAL SAFETY PRECAUTIONS

- Helmets must be properly fitted to each user in order to maximize protection.
- Protective headgear cannot protect against all foreseeable impacts. Skiing and snowboarding can expose the user to forces which exceed the limits of protection offered by any helmet, and helmets do not guard against injury to the neck, spine, face or any other part of the body.
- Snowboarding and skiing are hazardous activities. Even accidents at low speeds may lead to grave or fatal injuries.
- HEAD rental helmets are exclusively intended for recreational skiing and snowboarding in snow. They are not suitable for the use in high speed competition, extreme sports, cycling, motor sports, skating sports, or activities involving motorized vehicles or street traffic.
- A collision, crash or fall may cause invisible damage to the helmet. If a helmet has been involved in a collision, crash or fall, or if there is visible damage to the shell, liner, straps or buckle, the helmet must be destroyed or exchanged. Contact Head if you have any questions.
- Encourage your rental customers to ride/ski responsibly, follow all safety instructions and avoid accidents.
- Any helmet must be replaced no later than 7 years after production. The date of production is marked inside the helmet and can be found by removing the liner.

RENTAL HELMET SIZES AND HEAD CIRCUMFERENCE

CHARTER SR	CHARTER JR
Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 59.0 cm Size XL/XXL 60.0 - 63.0 cm	Size XXS 48.0 - 51.0 cm Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 59.0 cm

TRACER SR	TRACER JR
Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 59.0 cm Size XL/XXL 60.0 - 63.0 cm	Size XXS 48.0 - 51.0 cm Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 59.0 cm

TEN SR	TEN JR
Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 59.0 cm Size XL/XXL 60.0 - 63.0 cm	Size XXS 48.0 - 51.0 cm Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 59.0 cm

RENTAL SR	RENTAL JR
Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 58.0 cm Size XL/XXL 59.0 - 64.0 cm	Size XXS 48.0 - 51.0 cm Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 58.0 cm

ASSEMBLY/ADJUSTMENT

When renting our helmet first try on different sizes until you have found the best fitting one. Helmets will only perform their protective function if a secure fit is reached by selecting the correct size and adjustments - check the correct fitting before every use:

- Adjust the rental helmet to the customer's head size with the ear pad strap, which is adjustable in length, and the adjusting ring in the neck area. (fig. 1)
- Make sure that the rental helmet's front side sits close to the head slightly above the eyebrows. (fig. 2)

fig. 1

fig. 2

- The rental helmet must only be used with the original locks/ fasteners. In order to close the chin strap please insert one side of the lock into the other until a click is heard. Make sure, by slightly pulling both strap ends, that the lock is working properly. When locked, the chin straps should sit tightly to the chin. In order to open the chin locks, please press the red button and pull on both straps.
- If required, ear pads can be fixed to the helmet by using the available fixing elements. If the ear pads have loops for the reception of the chin strap they have to be pulled through these loops. The ear pads should only be removed from the helmet at room temperature in order to avoid the breaking of the fixing pins in low temperature.
- Please tell the customer to only use ski/snowboard goggles that are designed for the use with a ski/snowboard helmet.
- Please show the customer how to pull the goggles over the rental helmet and fix them in the loop at the back.
- To check for proper fit, take the helmet in both hands and try to move it from one side to the other and to the front and back. The helmet must fit snugly and not move excessively while doing this.

REGULAR ASSESSMENT/INSPECTION

As an authorized HEAD Rental Dealer it is your responsibility to inspect the rental helmets every day upon return. The inspection is a very important process, because damaged helmets might not provide maximum protection.

Ask your customer the following questions with each return:

- Did you have any falls? If so, how serious?
- Did you ever hit your head? If so, how hard?
- Did you notice any broken parts or have any problems with the helmet?

Visually inspect the helmet after each use for the following:

- Look and make sure there are no cracks or dents in the helmet shell and liner;
- Straps and buckles must be intact and functioning properly – replace those parts that are missing or damaged with genuine HEAD parts;
- Confirm that all labels are in place.

Helmets must be provided to the customer with all labels, liners, straps and other components as provided by HEAD. Beat up or damaged helmets may have lost some of their ability to protect, and they must be destroyed. Do not rent, sell or even give away any helmet that has been compromised by damage, wear and tear, overuse or improper storage or maintenance. Helmets have a limited lifespan, and they protect the user by self-destructing to absorb impacts that otherwise would be borne by the head. If you are not sure the helmet is OK to rent again, please contact HEAD or simply destroy the helmet.

CARE & MAINTENANCE

CLEANIE BEANIE - HYGIENIC SOLUTION FOR RENTAL HELMETS

To help prevent lice in your rental helmets and help keep your helmets sanitary Head recommends that you use our CLEANIE BEANIES. (Part # 375399 CLEANIE BEANIE PACK (60pcs)) Please contact your local rep for more information on our rental beanies. The rental beanie is a great way to provide your rental customer with a sure way of protection from dirt, lice and bacteria.

STORAGE AFTER USE

After use, store helmets in a dry room at room temperature with good ventilation. Do not store your helmets in direct sunlight or high temperatures.

SOLVENTS AND CLEANING

Use mild soap and water to clean the helmet, liner, straps and buckles. Do not use solvents or chemicals, as they may cause damage.

KEEPING TRACK OF YOUR RENTAL INVENTORY

As an authorized HEAD Rental Dealer it is your responsibility to keep accurate records of your rental inventory. Remember that only helmets specifically designated by HEAD for rental use may be used for rental or demo to customers. All other helmets are for retail sale only.

MARKING YOUR HELMETS

Each helmet used in your rental fleet must be individually marked with a unique code so that the specific helmet rented to a given customer on any given day can be identified on the customer's Rental Agreement and in your inventory log. The Helmet tracking code should be marked on the exterior shell or on the internal liner with a permanent marker or waterproof label that will last as long as the helmet.

INVENTORY LOG

Keep a log of your rental helmets that will allow you to identify each helmet in your inventory by model, size, date put into service, date removed from service, and other useful infor mation.
A sample form for your inventory log is at the end of this manual. Keep your rental inventory logs for at least five years after all helmets in the log are retired from service.

RENTAL/DEMO AGREEMENTS

All rentals, demos and similar transactions must be docu- mented with an appropriate rental/demo agreement. This agreement is much more than a receipt or "liability release. " A rental/demo agreement confirms that the helmet was properly fitted and was provided to the customer with appropriate warnings and information. The rental/demo agreement provides valuable service to your customer as well as a certain degree of legal protection to the retailer and to HEAD in the event of a legal claim or suit.

Keep your completed rental agreements for at least five years after the rental transaction.

A sample form that meets HEAD's requirements is attached. Shops may use their own forms, but in order to meet HEAD's requirements for conditional indemnity, any rental or demo agreement must contain the following terms and information:

CUSTOMER AND TRANSACTION INFORMATION

- The rental/demo agreement must include the following information for each customer transaction:
- Name, address and telephone number of the rental location;
- Date of the transaction;
- Name, address, age and telephone number of the customer; when the helmet will be used by a minor, obtain this information for both the minor and the minor's parent or guardian;
- Inventory number or code that allows the helmet to be specifically identified separately from all others; the model, color and size of helmet may be marked on the rental agreement or in the inventory log;
- Signature of a shop employee who is currently certified as a HEAD rental helmet technician, which shall serve as a confirmation that the helmet was properly fitted to the customer and that all aspects of the helmet and the transaction comply with HEAD's instructions as provided in this manual; and
- Signature of the customer, which shall confirm the customer's agreement to the terms of the rental, assumption of risk and release agreement, that the customer was properly fitted, and that the customer was given any necessary information and instructions.

WARNINGS, ASSUMPTION OF RISK AND LIABILITY RELEASE

Your rental/demo agreement must include:

- A warning that no helmet can protect the wearer against all foreseeable impacts to the head, that skiing and snow- boarding can expose the user to forces which exceed the limits of protection offered by the helmet, and that the helmet does not guard against injury to the neck, spine or any other part of the body, as well as the customer's agreement that these limitations are inherent risks of the customer's chosen activity;
- The customer's agreement to assume all risks of death or injury to any part of the user's body while using the helmet, including any which may result from the use of the helmet;
- The customer's agreement that to the fullest extent allowed by law, the customer shall release and hold harmless the HEAD/TYROLIA Authorized Retailer, HEAD USA Inc. dba HEAD/TYROLIA Wintersports USA (HEAD Canada Inc. in Canada), and all manufacturers and distributors of the helmet and its components, as well as their owners, agents, employees and affiliated companies, from any and all responsibility or legal liability for any injuries, damages or death to any user of the helmet, whether resulting from negligence or any other cause, and to defend and indem- nify them if any claim or action is pursued for any injuries, damages or death relating to skiing, snowboarding or any related activities involving the use of the helmet;
- A statement that the helmet must fit properly in order to maximize its performance and that it must be used only by the customer to whom it was fitted, together with the customer's acknowledgement that the helmet has been properly fitted by the HEAD Authorized Retailer, that all instruction on the use of the helmet have been made clear and that the customer understands the function of the helmet;
- The customer's agreement that if the helmet is damaged or involved in any kind of accident, the customer will immediately return it to the shop and report the accident or damage to the shop; and
- Additional language as needed to maximize the legal validity and enforceability of the agreement under the laws of the HEAD Authorized Retailer's state or province.

The laws of some states or provinces may limit the enforceability of liability release, assumption of risk or indemnity agreements. Even in those few states or provinces which do not enforce such agreements, the document should be signed, if it can be done so legally, as it provides valuable warnings and other information to the customer, and it is possible that an agreement signed in one location may have legal significance in another that treats such agreements differently.

If you have questions about whether the agreement you use is legal and provides maximum protection in your state or province, you should seek advice from qualified legal counsel. If you have questions about whether your agreement complies with the requirements of HEAD, send it to HEAD for review and approval.

Some shops may prefer to use one rental agreement form for all equipment, e.g., skis, snowboards and helmets. This is acceptable, but only if the rental agreement includes all of the appropriate warnings and risk statements for helmets. A combined form which is acceptable to HEAD is included with this manual.

ACCIDENTS AND INJURIES

TALKING WITH YOUR CUSTOMERS

Accidents and injuries are inherent in skiing and snowboarding. Protective headgear can help to protect against some head injuries, but skiing and snowboarding can expose people to forces which exceed the limits of protection offered by a helmet, and helmets do not guard against injury to the neck, spine, face or any other part of the body.

When an injury has been reported or if a customer, friend or family member makes comments about a legal claim or suit, it is important to observe, listen and gather information. When speaking with an injured person, their family or friends, be polite and compassionate, but do not apologize; do not get involved in a confrontation; do not get involved in discussions of blame, fault, indemnity, or "who will pay." If there is a legal claim or suit, the lawyers and claims adjusters will address these issues after they have completed their investigation and analysis. Well-intentioned statements made without full knowledge of all pertinent facts and legal issues can lead to misunderstandings, and must be avoided.

If someone asks questions about topics such as lawsuits, blame, fault, whether a product is defective, payment for medical bills or other legal issues, it is best to say something like "All I can do right now is gather information. I am not authorized to speak about accidents, liability or legal claims, but if there is anything you'd like me to pass along, I will do that." Remember that nothing is "off the record," and if someone persists in trying to draw you into discussions of these topics, it is best to end the conversation politely and report the circumstance immediately to HEAD as a potential claim.

POST-ACCIDENT INSPECTION AND REPORT

If an injury has been reported involving a HEAD helmet, no matter how insignificant it may sound at the time, every effort should be made to get the helmet back, inspect it, and hold it intact for possible use as evidence in a claim or lawsuit. Do not return the helmet to inventory or allow others to do anything with it. As soon as possible, start filling out a HEAD Protection Post-Accident Helmet Inspection Report.

Complete the report accurately, sticking just to the facts and without any editorial comment. Do not guess or speculate. If some of the information called for in the report is not known or unavailable, just state „not known" or „not available" and finish the report with the information available.

RESPONDING TO CLAIMS OR LAWSUITS

Notify HEAD and your insurer immediately upon receipt of any lawsuit, lawyer's letter or other written complaint, claim or request for compensation. You must provide a copy of the claim notice (including any letters or legal papers), a copy of the Post-Accident Helmet Inspection Form, and copies of the Rental Agreement, Helmet Inventory Log, certification records for involved employees and other written materials pertaining to the claim. If you still have the helmet and it has not already been set aside, find it immediately and keep it in a safe place. Do not get involved in giving statements or discussing anything about the case until you have spoken with HEAD and with your insurer. Lawsuits are serious business, and you should leave all legal issues to the lawyers.

INDEMNITY FOR HEADPROTECTION RENTALS

If you are a current Head Authorized Retailer who has been authorized by HEAD to rent or demo (as opposed to sell), HEAD helmets, you are entitled to participate in HEAD's offer of conditional contractual indemnity as stated in the current HEAD USA INC. or HEAD CANADA INC. Authorized Retailer Agreement and this HEAD Rental Helmet Manual. In order to take advantage of this offer, you must do the following:

- Have a current (2020-2021) Authorized Retailer Agreement on file with HEAD that authorizes you as a HEAD Protection Rental-Demo Authorized Retailer and remain in compliance with its terms;
- Comply with all requirements of this HEAD Rental Helmet Manual, including all recordkeeping and employee training requirements; and
- Use only helmet models that are currently authorized by HEAD for rental-demo purposes; for 2021-2022 only the following models are authorized for rental demo:

329107 TRACER SR black	329607 TEN SR black
329207 TRACER JR white	329907 TEN JR white
329311 CHARTER SR black 329321 CHARTER SR nightblue	329513 RENTAL SR black
329411 CHARTER JR white 329421 CHARTER JR lime 329431 CHARTER JR salmon	329813 RENTAL JR white 329820 RENTAL JR lime

Remember, it is the HEAD Rental Dealer's obligation to get their employees trained and certified, and to maintain strict compliance with the HEAD USA INC. or HEAD CANADA INC. Authorized Retailer Agreement and this HEAD Rental Helmet Manual. In order to be certified, employees must read and become familiar with this HEAD Rental Helmet Manual as part of their training; the HEAD Rental Dealer must return a properly completed Employee Training Documentation Form to HEAD for each employee. A rental agreement that lacks the signature of a certified employee does not comply with the conditions for indemnity.

Keep your rental agreements, inventory logs and post- accident inspection reports, as well as any helmets and parts involved in incidents for which you have prepared a post-accident inspection report, for at least five years from the date of the transaction or one year past the statute of limitations for negligence and product liability actions in your state or province, whichever is longer.

There is absolutely no indemnity of any kind for any sale or gift of a used helmet, other than a helmet that has been rented exclusively to a single customer, in which case, the HEAD Authorized Retailer may sell that helmet to the same rental customer so long as the helmet is undamaged and is provided to the customer with all labels, liners, straps and other original components as provided by HEAD.

HEAD USA INC.	**HEAD CANADA INC.**
3125 Sterling Circle Suite 101 Boulder, CO 80301 USA	935A Southgate Dr. Unit 4 Guelph Ontario N1L 0B9 Canada
Phone: 800-874-3235 720-708-6400	Phone: 800-265-7257
Fax: 720-708-6419	
www.head.com	www.head.com

HEAD® PROTECTION™ POST-ACCIDENT HELMET INSPECTION REPORT

Complete all sections and attach copies of all rental agreements, service records and other pertinent documents. Do not leave blanks and do not guess or speculate when the information called for is not known or available. Enter "unknown" or "n/a" where appropriate.

Shop Name	**RENTAL AGREEMENT NO.**

User information

NAME				ACCIDENT DATE
HEIGHT	WEIGHT	AGE	SEX (circle one) M F	SKIER/RIDER ABILITY
REPORTED INJURY AND CIRCUMSTANCES OF ACCIDENT				
SKI AREA	SKI RUN OR LOCATION			

Helmet information

HELMET MAKE	HELMET MODEL	PRODUCTION CODE (from inside label)
HELMET SIZE	SHELL COLOR	SHOP INVENTORY NUMBER (if applicable)

Other Equipment information

SKI / SNOWBOARD MAKE	SKI / SNOWBOARD MODEL	SKI / SNOWBOARD LENGTH
SKI / SNOWBOARD SERIAL NO.	SKI / SNOWBOARD RENTAL I.D. NO. (if applicable)	
SKI / SNOWBOARD BINDING MAKE AND MODEL	SKI BINDING RELEASE SETTINGS (if applicable) Right Toe ..... Left Toe ..... Right Heel ..... Left Heel	
BOOT MAKE & MODEL	BOOT SIZE	BOOT RENTAL I.D. NO. (if applicable)
DESCRIBE ANY DAMAGE OR UNUSUAL CONDITIONS OF SKIS, BOARD, BOOTS, BINDINGS, GOGGLES OR OTHER EQUIPMENT		

Helmet Inspection Results

YES	NO	N/A	(check one)	COMMENTS FOR ANY "NO" OR "N/A" ANSWERS
0	0	0	Shell intact and undamaged	
0	0	0	Liner intact and undamaged	
0	0	0	Strap and buckles intact and undamaged	
0	0	0	All standard labels present and legible	

Helmet Status

Retained by shop	Retained by customer	COMMENTS
Returned to distributor	Returned to inventory	

Personnel

INSPECTION TECHNICIAN	DATE
REPORT REVIEWED BY	DATE

HEAD RENTAL SNOWBOARD

RENT `N`RIDE IN 58 SECONDS. LEARN TO TURN IN 58 MINUTES.

FLEX

THE NEW FLEX RENTAL SNOWBOARD FROM HEAD HAS BEEN IN DEVELOPMENT FOR THREE YEARS, WITH THE CLEAR GOAL TO DEVELOP THE BEST RENTAL SNOWBOARD ON THE MARKET, UNDER THE THREE KEY ASPECTS OF DURABILITY, USABILITY AND SYSTEM INTEGRATION.

DURABILITY

- PROTECTIVE FRAME DESIGN
- INTEGRATED TIP & TAIL PROTECTOR CAN BE EXCHANGED WITHOUT USING TOOLS
- GORILLA TOPSHEET

USABILITY

- RENTAL ROCKER FOR EASY HANDLING, FUN AND PROGRESSION
- SOFT TORSIONAL FLEX – THIS MAKES BEGINNING TO RIDE EASY AND HELPS ADVANCED RIDERS TO PROGRESS
- MODERN DESIGN WITH SMARTLY INTEGRATED COLOR CODING ELEMENTS

SYSTEM INTEGRATION

- SPEEDDISC COMPATIBLE
- RENTAL BARCODE IMPLEMENTATION
- 4D COLOR CODING

Hybrid Camber DCT
Graphene
Hexagonal Core
FramewalL
Kers Technology

e-INSTINCT LYT

ARTICLE NUMBER

330021 e-INSTINCT LYT
330031 e-INSTINCT LYT + SpeedDisc

PRODUCT FEATURES

CAMBER Hybrid Camber DCT
ARCHITECTURES LYT Board Architecture w. Graphene and Framewall
FLEX INDEX 8
BASE Sintered Base

PRODUCT DETAILS

LENGTH (CM)	WAIST (CM)	EFFEC-TIVE EDGE (CM)	SIDECUT (M)	MED. STANCE (CM)	SET-BACK (CM)
146	23.5 (23.9)	110,5	7,8	52	1,0
149	23.9 (24.3)	115,4	7,9	54	1,0
153	24.4 (24.8)	118,3	7,9	56	1,0
156	24.6 (25.0)	121,1	7,9	58	1,0
159	24.9 (25.2)	122,2	7,9	60	1,0
162	25.0 (25.4)	126,0	7,9	60	1,0

Flocka
Poplar Woodcore Core
4D Compatible-
Liquid Framewall
UVR Topsheet
Easy Maintenance Base
Retail Inspired Design

FLOCKA LFW 4D

ARTICLE NUMBER

337008 FLOCKA LFW 4D + SpeedDisc
337068 FLOCKA LFW 4D
SIZES 146, 151, 149, 154, 159, 158, 163, 168, 158w, 163w, 168w

ARTICLE NUMBER

337108 FLOCKA LFW 4D JR + SpeedDisc
337168 FLOCKA LFW 4D JR
SIZES 90, 100, 110, 120, 130, 140

PRODUCT FEATURES

Style True Twin
Camber Flocka

PRODUCT DETAILS

LENGTH (CM)	WAIST (CM)	EFFEC-TIVE EDGE (CM)	SIDECUT (M)	MED. STANCE (CM)	SET-BACK (CM)
146	23,9	72,5	6,8	51	0,0
149	24,7	72,9	7,0	52	0,0
151	24,4	73,0	6,2	53	0,0
154	25,0	74,9	6,5	56	0,0
158	26,4	77,9	5,8	58	0,0
159	25,4	77,3	5,8	58	0,0
163	26,6	80,0	7,6	60	0,0
168	26,8	85,0	8,0	60	0,0
90	18,5	59,0	4,0	32	0,0
100	20,0	68,0	5,0	33	0,0
110	21,4	78,0	5,5	33	0,0
120	22,0	63,0	6,4	38	0,0
130	23,0	66,1	6,8	44	0,0
140	24,0	71,0	6,8	46	0,0

Flocka
Poplar Woodcore Core
4D Compatible-
Liquid Framewall
UVR Topsheet
Easy Maintenance Base
Retail Inspired Design

FLOCKA LFW 2.0 4D

ARTICLE NUMBER

337011 FLOCKA LFW 2.0 4D + SpeedDisc
337071 FLOCKA FLW 2.0 4D
SIZES 146, 151, 149, 154, 159, 158w, 163w, 168w

ARTICLE NUMBER

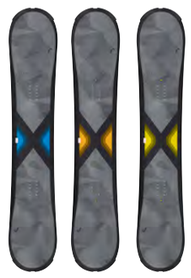
337111 FLOCKA LFW 2.0 4D JR + SpeedDisc
337171 FLOCKA LFW 2.0 4D JR
SIZES 90, 100, 110, 120, 130, 140

PRODUCT FEATURES

Style True Twin
Camber Flocka

PRODUCT DETAILS

LENGTH (CM)	WAIST (CM)	EFFEC-TIVE EDGE (CM)	SIDECUT (M)	MED. STANCE (CM)	SET-BACK (CM)
146	23,9	72,5	6,8	51	0,0
149	24,7	72,9	7,0	52	0,0
151	24,4	73,0	6,2	53	0,0
154	25,0	74,9	6,5	56	0,0
158	26,4	77,9	5,8	58	0,0
159	25,4	77,3	5,8	58	0,0
163	26,6	80,0	7,6	60	0,0
168	26,8	85,0	8,0	60	0,0
90	18,5	59,0	4,0	32	0,0
100	20,0	68,0	5,0	33	0,0
110	21,4	78,0	5,5	33	0,0
120	22,0	63,0	6,4	38	0,0
130	23,0	66,1	6,8	44	0,0
140	24,0	71,0	6,8	46	0,0



Rocka
Protective Frame Design
Gorilla Topsheet
Integrated, Exchangeable
Tip & Tail Protector
Soft Torsional Flex
Modern Design
Easy Maintenance Base
4D Compatible

FLEX 4D

ARTICLE NUMBER

337810 FLEX 4D + SpeedDisc
337860 FLEX 4D
SIZES 138, 142, 146, 151, 149, 154, 159, 152w, 158w, 163w, 168w

ARTICLE NUMBER

337910 FLEX 4D JR + SpeedDisc
337960 FLEX 4D JR
SIZES 90, 100, 110, 120, 130, 135, 140

PRODUCT FEATURES

Rocker, Easy Maintenance Die-Cut Base, Exchangeable Tip & Tail Protectors, Poplar Woodcore Core, Easy Rent Topsheet, 4D Compatible

PRODUCT DETAILS

LENGTH (CM)	WAIST (CM)	EFFEC-TIVE EDGE (CM)	SIDECUT (M)	MED. STANCE (CM)	SET-BACK (CM)
138	23,4	10,1	5,5	48	0,0
142	28,1	10,2	5,9	48	0,0
146	23,7	58,0	6,0	50	0,0
149	24,4	60,0	6,7	52	0,0
151	24,3	60,0	6,8	52	0,0
154	25,0	64,0	8,4	56	0,0
158	26,4	66,0	7,0	58	0,0
159	25,3	66,0	9,3	58	0,0
163	26,6	68,0	7,4	60	0,0
168	26,8	68,0	7,6	60	0,0
90	20,0	38,0	5,5	30	0,0
100	21,0	40,0	6,5	32	0,0
110	22,0	44,0	6,5	36	0,0
120	22,0	50,0	5,5	42	0,0
130	23,0	52,0	6,0	44	0,0
140	24,0	54,0	7,0	46	0,0

Rocka
Easy Maintenance Die-Cut Base
Poplar Woodcore Core
Framewall
4D Compatible
UVR Topsheet

ROCKA FW 4D

ARTICLE NUMBER

337308 ROCKA FW 4D + SpeedDisc
337358 ROCKA FW 4D
SIZES 146, 151, 149, 154, 159, 158, 163, 168, 158w, 163w, 168w

ARTICLE NUMBER

337408 ROCKA FW 4D JR + SpeedDisc
337458 ROCKA FW 4D JR
SIZES 90, 100, 110, 120, 130, 140

PRODUCT FEATURES

Style True Twin

PRODUCT DETAILS

LENGTH (CM)	WAIST (CM)	EFFEC-TIVE EDGE (CM)	SIDECUT (M)	MED. STANCE (CM)	SET-BACK (CM)
146	23,7	58,0	6,0	50	0,0
149	24,4	60,0	6,7	52	0,0
151	24,3	60,0	6,8	52	0,0
154	25,0	64,0	8,4	56	0,0
158	26,4	66,0	7,0	58	0,0
159	25,3	66,0	9,3	58	0,0
163	26,6	68,0	7,4	60	0,0
168	26,8	68,0	7,6	60	0,0
90	20,0	38,0	5,5	30	0,0
100	21,0	40,0	6,5	32	0,0
110	22,0	44,0	6,5	36	0,0
120	22,0	50,0	5,5	42	0,0
130	23,0	52,0	6,0	44	0,0
140	24,0	54,0	7,0	46	0,0

FLATBED 4D SPEEDDISC

ARTICLE NUMBER
347208 black
347218 green

PRODUCT FEATURES
Extra Low Volume for Efficient Storage, Dura Tech Toe Straps, Alu Buckles, Alu Heelcup, Heavy Duty Baseplate, Minimum Amount of Parts, All Parts coded with a Spare Parts Number for simple Reorder, 4D Compatible, Padded Highback

SIZES
S,M,L

SPAREPARTS
377047-SPARE PARTS BOX FLATBED

P THREE 4D SPEEDDISC

ARTICLE NUMBER
347503

PRODUCT FEATURES
Padded Highback, Alu Heelcup, 3D Comfort Strap, 4D Compatible, Toe & Heel Base Pads

SIZES
S, M, L

SPAREPARTS
377113-SPARE PARTS BOX P3 4D SPEEDDISC

P 4D JR SPEEDDISC

ARTICLE NUMBER
347603

PRODUCT FEATURES
4D Compatible, JR Specific Construction, Fit Ankle Strap, Padded Junior Highback

SIZES
JR

650 4D BOA FOCUS

ARTICLE NUMBER
357045 650 4D BOA FOCUS
357055 650 4D BOA FOCUS WMN

PRODUCT FEATURES
Frequency Technology, Pro Fit Liner, Double Boa® Lacing, S.Café® Lining Mesh, 4D Compatible, Heavy Profile Rubber Outsole, Full Toe and Heel Protection, Fully covered Lace Protection

SIZES
650 4D BOA FOCUS 22.5, 23.5, 24.5 - 30.5, 31.5, 32.5

SPAREPARTS
377266-SPARE PARTS BOX Boa® RENTAL

620 4D BOA

ARTICLE NUMBER
357111 620 4D BOA (+Coiler)

PRODUCT FEATURES
Boa® Coiler, Heavy Profile Rubber Outsole, Comfort Cuff, Cuff Cut Construction, Full Toe and Heel Protection, Full rubber quarter, Rubber Toecap, Rubber Covered Laceguides, 4D Compatible, EVA Liner, S.Café® Lining Mesh, FPG Insole, Forward Lean 9°

SIZES
22.5 - 32.5

SPAREPARTS
377266-SPARE PARTS BOX Boa® RENTAL

600 4D

ARTICLE NUMBER
357246 600 4D BOA (+Coiler)

PRODUCT FEATURES
S.Café® Lining Mesh, Explorer Outsole, 4D Compatible, Boa® H2 Coiler Lacing, Full Toe and Heel Protection, Fully covered Lace Protection

SIZES
22.5 - 30.5, 31.5, 32.5

SPAREPARTS
377266-SPARE PARTS BOX Boa® RENTAL

500 4D

ARTICLE NUMBER
357443 500 4D BOA (+Coiler)
357403 500 4D

PRODUCT FEATURES
Explorer Outsole, Injected Heel Section, Rubber Covered Laceguides, Rubber Toecap, 4D Compatible, Boa® H2 Coiler Lacing

SIZES
500 4D BOA (+Coiler) 22.5 - 30.5, 31.5, 32.5
500 4D 22.5 - 30.5, 31.5, 32.5

SPAREPARTS
377266-SPARE PARTS BOX Boa® RENTAL

400 4D JR

ARTICLE NUMBER
357566 400 4D JR BOA
357506 400 4D JR

PRODUCT FEATURES
Linerless, S.Café® Lining Mesh, Explorer Outsole, Rubber Covered Laceguides, Rubber Toecap, 4D Compatible

SIZES
400 4D JR BOA 18.5, 19.5, 20.5, 21.5, 22.5, 23.5, 24.5, 25.0
400 4D JR 18.5, 19.5, 20.5, 21.5, 22.5, 23.5, 24.5, 25.0

SPAREPARTS
377266-SPARE PARTS BOX Boa® RENTAL

HOW DOES IT WORK?

DEFINE THE COLOR CODE PER BOOT SIZE

Mondo	EU	US
185 - 250	29,0 - 39,0	13 - 6,5

Mondo	EU	US
225 - 250	35 - 39	4 - 6,5

Mondo	EU	US
255 - 280	39,5 - 43	7 - 10

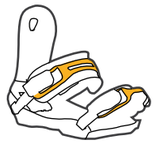
Mondo	EU	US
285 - 325	44 - 49,5	10,5 - 14,5

SELECT THE ACCORDING BINDING COLOR

JR

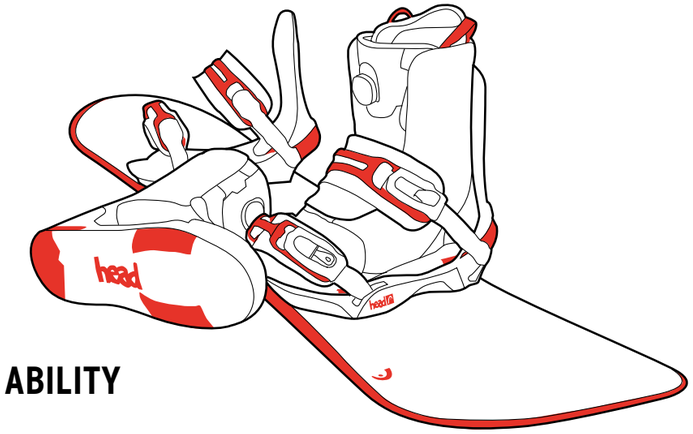
S

M

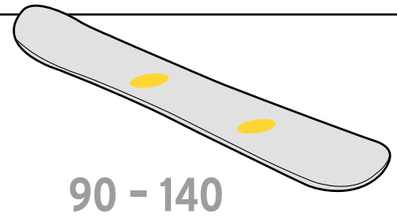


L

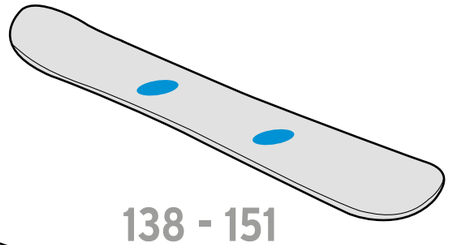
>>> SEVERAL BINDING OPTIONS ARE AVAILABLE PER COLOR CODE, IN ORDER TO EQUIP THE CUSTOMER WITH THE PERFECT BINDING ACCORDING TO HIS STYLE, NEEDS AND ABILITY LEVEL.



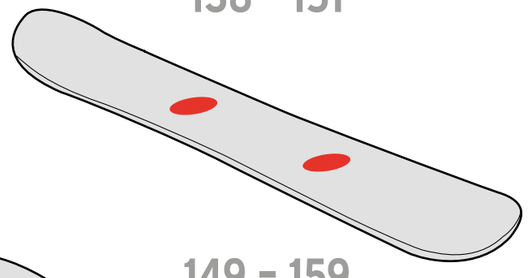
SELECT THE ACCORDING BOARD LENGTH, BASED ON ABILITY LEVEL AND HEIGHT.



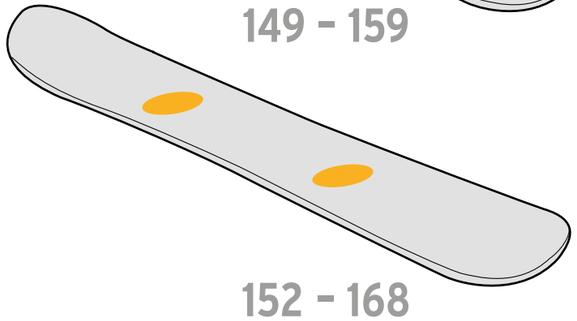
90 - 140



138 - 151



149 - 159



152 - 168

>>> THE 4D COLOR CODE IS INTEGRATED IN THE PRODUCT DESIGN FOR QUICK IDENTIFICATION, WHILE NOT LOOKING LIKE A RENTAL PRODUCT.

>>> WE OFFER A VARIETY OF SNOWBOARD SHAPES AND STYLES, ALL FEATURING THE SAME 4D COLOR CODING. THEREFORE THE FLEET CAN BE MIXED WITHOUT HAVING TO WORRY ABOUT SYSTEM COMPATIBILITY.

MOUNTING RENTAL DISK

ONLY USE THE EASY SLIDE DISC IN CASE THE BINDING IS DIFFICULT TO TURN. MAKE SURE TO HAVE ENOUGH SCREW ENGANGEMENT WHEN ADDING THE DISC (COVER AT LEAST 3 FULL THREADS IN INSERT).

>>> THE SPEEDDISC SYSTEM IS HIGHLY STORAGE EFFICIENT AND HAS PROVEN ITS DURABILITY OVER MANY YEARS OF USAGE. IN ADDITION, IT ENABLES THE RENTAL OPERATOR TO MOUNT AND ADJUST SNOWBOARD BINDINGS WITHIN SECONDS.

1. [redacted]

Place the discs on the Board in a way that the opening levers point to the end of the Board respectively (figure 1).

2. [redacted]

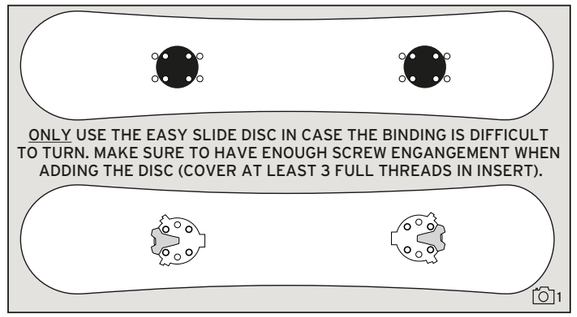
When assembling/disassembling, watch out that the enclosed screws (figure 2) are tightened firmly (at least 4 Nm). When choosing the appropriate screw, make sure that the screws are turned at least 3 threads into the insert of the Board and do not touch the insert ground. When assemblingdisassembling the screws must be tightened/loosened using a POZI #3 screwdriver.

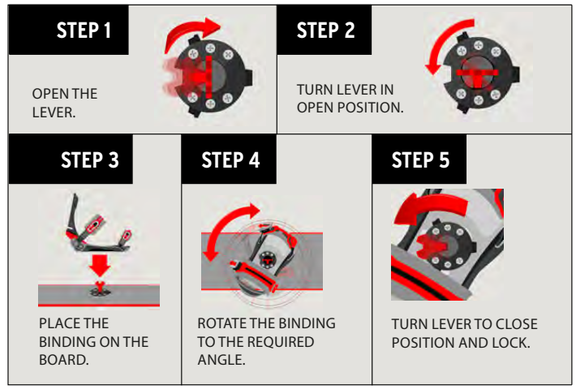
3. [redacted]

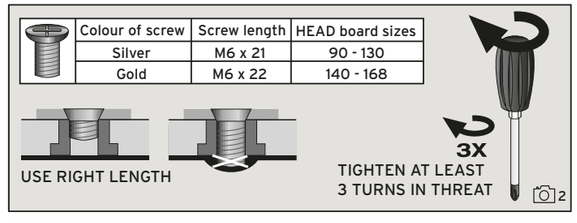
The screws must be checked regularly as to their tight fit. After disassembling the screws, they must be secured against self-loosening with „Loctite® 243, in case they are being reused. Alternatively, new insert screws from HEAD can be acquired as spare part.

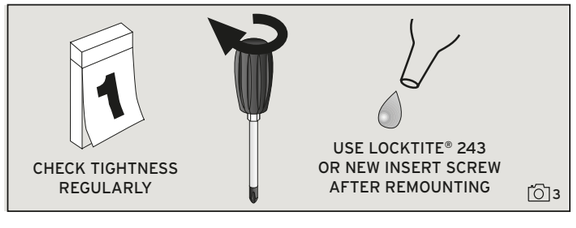
4. [redacted]

Due to the different top sheet structures used on our rental boards, variations on the speed disc may occur, which makes the handle harder to move. In this case, please place 378731 EASY SLIDE DISC (available as a spare part) under the RENTAL SPEED DISC.









MAINTENANCE & SAFETY INSTRUCTIONS

VISUAL INSPECTION OF RENTAL EQUIPMENT

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

CHECK SUITABILITY

- Is the chosen rental equipment appropriate for the snowboarder's ability?
- The binding must be compatible with the customer's boots/board. Make sure the boot can not slip out of the
- binding after binding is buckled up.

CHECK THE CONDITION OF THE RENTAL EQUIPMENT

- Are all parts present and in working order?
- Are all mounting screws present and tightened securely? (only turn screws clockwise to prevent damage to screw locks).
- Does the equipment show signs of contamination / damage? If yes, don't use!

MAINTENANCE OF BOARDS

- Store in a dry room after use.
- Grind base & edges from time to time
- Hot wax the boards after max. 7 days of use

MAINTENANCE OF BINDINGS

- Store in a dry room after use
- Do not expose to extreme temperature fluctuations
- Do not let the bindings get dirty, especially the buckles and the toolfree system
- Do not expose to solvents or chemicals
- Release binding from board for storing to make sure the toolfree system/binding can dry

MAINTENANCE OF BOOTS

- Store in a dry room after use
- Dry boots after every use, for faster drying pull out liner
- Keep boots clean
- If needed, machine wash liner with cold water and spray inside of liner anti-odor spray

SAFETY INSTRUCTIONS

We recommend using HEAD boots for the HEAD bindings. Boots from other brands can be used if they are compatible and properly fit into to the bindings. The rental operator is to instruct the renter & snowboarder on

- All the board/boot/binding functions and explain safe handling for during and after use:
- Snowboard bindings are not equipped with a release mechanism
- Adjustments are only to be performed by the rental operator
- Check if the equipment is in working order before any On-hill outing and do not use in case of any defects
- Safety leashes are to be used at all times when riding
- Stomp pads are to be used at all times
- All ratchets are to be securely locked in the designated buckles when riding.
- All ratchets and buckles are to be free of ice when riding.
- All screws must be tightened securely when riding.
- The boot is to be properly secured in the binding so that it cannot release when riding.
- Before use, make sure that the feet of the rider snugly fit into the snowboard boots: upon lacing up and fixing of all locking devices the feet must not be able to slip out of the boots. The boots need to be laced/tied up in a manner the the rider does not loose control during riding.
- Locally appropriate conduct and laws to be respected on and off the slopes.
- The risks of snowboarding.
- General safety measures of snowboarding sports.

SPEEDDISC BINDINGS TROUBLESHOOTING

PROBLEM	POSSIBLE REASON	SOLUTION
Binding is loose	Insert screws are loose	Tighten insert screws, thread locker medium strength (Loctite, 243) prevents from loosening
Difficult angle adjustment	Dirt in system	Wash with warm water & dry
	Ice in system	Clean
	Burrs on teeth of disc	Remove burrs
Boot does not fit into binding	Incorrect binding size	Try other binding size (see color code), adjust heelcup & ankle/toe strap to boot size
	Boot is from other brand	Adjust heelcup & ankle/toe strap to boot size
Speed disc handle is moving hard	Screws are too tight	Unmount speed disc
	Screws lengths are not correct	Check screw length and tightness
	Speed disc is barely gliding on	Check & clean top sheet surface
		Remount speed disc and fix screws using Loctite 243. Make sure the screw engages into insert for a least 3 full turns. If the problem still occurs, place 378731 EASY SLIDE DISC under the speed disc before mounting
Straps do not lock	Teeth of ratchet are iced up	Remove ice
	Teeth of buckle are iced up	Remove ice
	Teeth of ratchet are worn out	Replace ratchet
	Teeth of buckle are broken/ worn out	Replace buckle
	Spring of buckle is defective	Replace buckle

HEADQUARTERS

HEAD SPORT GMBH
Wuhrkopfweg 1
A-6921 Kennelbach
Austria
T. +43 5574 608 0

HEAD SPORT GMBH
Branch Schwechat
Tyroliaplatz 1
A-2320 Schwechat
Austria
T. +43 1 70 1790
E. marketing@tyrolia.com

HEAD UNITS

AUSTRIA
HEAD Austria GmbH
Tyroliaplatz 1
2320 Schwechat
Austria
T. +43 1 701 79 0
E. info@at.head.com

AUSTRALIA
HEAD Oceania PTY LTD
Unit 2A
93 Burnside Road
Yatala, QLD 4207
Australia

BENELUX
HEAD Benelux B.V.
Plesmanstraat 1
3833 LA Leusden
The Netherlands
T. +31 33 2030 117
E. info.benelux@head.com

CANADA
HEAD CANADA INC.
935A Southgate Dr. Unit 4 Guelph
Ontario N1L 0B9 Canada
T: 800-265-7257
E. info@ca.head.com

CZECH REPUBLIC & SLOVAKIA
HEAD Sport s.r.o.
Sportovni 457
25242 Vestec
Czech Republic
T. +420 267 2811 11
E. info.czechia@head.com

FRANCE
HEAD France SAS
ZA les Condamines
Bresson BP 29
38320 Eybens
France
T. +33 476 62 69 00
E. standard@fr.head.com

GERMANY
HEAD Germany GmbH
Velaskostr. 8
85622 Feldkirchen
Germany
T. +49 89 90 99 95 0
E. info@de.head.com

ITALY
Mares S.p.A.
Salita Bonsen, 4
16035 Rapallo (GE)
Italy
T. +39 0185 201 1
E. info-head@it.head.com

JAPAN
HEAD Japan Co., Ltd.
Sumitomo-Jimbocho Bldg 7F
3-25 Kanda-Jimbocho
Chiyoda-ku
Tokyo 101-0051
Japan
T. +81 3 3221 7921
E. sales@jp.head.com

NORWAY
HEAD Norway SA
Tornsangerveien 21
1360 Fornebu
Norway
T. +47 97 11 49 49
info.norway@head.com

POLAND
HEAD Poland sp. z o.o.
Ul. Rydlówka 20
30-363 Kraków
Poland
T. +48 12 255 44 00
E. info@pl.head.com

SCANDINAVIA (FINLAND, SWEDEN, DENMARK)
HEAD Scandinavia AB
Prästvägen 2
83752 Åre
Sweden
T. +46 647 50610
E. info.scandinavia@head.com

SPAIN
HEAD Spain SA
Roger 65-67 5a
08028 Barcelona
Spain
T. +34 93 409 20 80
E. info@es.head.com

SWITZERLAND
HEAD Switzerland AG
Ruessenstrasse 16
6340 Baar
Switzerland
T. +41 41 767 07 07
E. info@ch.head.com

UNITED KINGDOM
HEAD UK LTD
2 Beezon Road
Kendal, Cumbria
LA9 6BW
UK
T. +44 15 39 72 47 40
E. info@uk.head.com

USA
HEAD USA, Inc.
3125 Sterling Circle
Suite 101
Boulder, CO 80301
USA
T. +1 800 874 3235
E. info@us.head.com

HEAD PARTNER

ARGENTINA
Sports & Adventure S.A.
T. +54 11 4711 6411
E. recepcion@grupovieytes.com

AZERBAIJAN
Rich Company
T. +994 51 742 0089
E. office@richsport.az

BELARUS
Shkursky Alexandr Viktorovich
T. +375 296206131
E. alex@cast.by

BULGARIA
Miras-Krastevi Ltd.
T. +359 2 962 72 01
E. office@miras-sport.com

CHILE
Inver Tech Ltda.
T. +56 2 681 23 08
E. pablo.zuninoerlaver@gmail.com

CHINA
Nanjing B.C. Sports Products
T. +86 01051078257
E. guox@halti.com.cn

CROATIA & BiH
MARINES d.o.o.
T. + 385 1 6055 625
E. andrej@marines.hr

ESTONIA
Sportland International Group
T. +372 6 548 434
E. info@sportland.ee

GEORGIA
D.V. Sport Ltd.
T. +995 32 2518949
E. dvsport@dvsport.ge

GREECE
Parnass Ski
T. +30 (22670) 22646
E. info@parnass.gr

HUNGARY
Wintersport Co. Ltd.
T. +36 70 376 0640
E. wintersport@wintersport.hu

ICELAND
Utivera EHF T/A Everest
T. +354 533 44 50
E. everest@everest.is

IRAN
Headayatgaran Taktaz Pars Tejarat Co. Ltd.
T. +43 7485 67972
E. info@baxler.at

KAZAKHSTAN
MAK ImpEx. Ltd.
T. +7 727 2663333
E. makimpex.kz@gmail.com

KOSOVO
SINA Ltd.
T. +377 44 124 955
E. sinaltd.perparim@gmail.com

LATVIA
Burusports
T. +371 67317780
E. martins.lucans@burusports.lv

LEBANON
Mike Sport
T. +961 1 8888 55
E. mispo@mikesport.com

LITHUANIA
Baltaura LT
T. +370 (5) 265 3181
E. baltaura@baltaura.lt

MACEDONIA
Vekon Int Dooel
T. +389 7 039 3341
E. r.kochovski@elteh.com.mk

NEW ZEALAND
Allsports Distribution Ltd.
T. +64 7 377 1033
E. info@allsports.co.nz

ROMANIA
SC Nevesport SRL T
T. +40 (740) 676 586
E. nagynorbertski@gmail.com

RUSSIA
Girvas Sport Int.
T. +7 499 171 44 65
E. m.teplov@girvas.ru

SERBIA
Markoni Sport d.o.o.
T. +381 11 4518820
E. veleprodaja@markonisport.rs

SOUTH KOREA
Alchemist
T. +82 2 430 8060
E. head@alchemist.kr

TURKEY
Spor Atletik Malzemeleri San. Ve Tic. Ltd.Şti.
T. +90 532 351 9494
E. hakant@sporatletik.com

UKRAINE
Extreme Style
T. +380 97 511 6510
E. denis@eltrade.com.ua

UZBEKISTAN
MEGASHOP LLC
T. +998 71 235 91 81
E. buyer.hardgoods@union-space.com

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