



RENTAL

SYSTEMS

TECHNICAL MANUAL

2017.18

HEAD

head

TYROLIA

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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 world's best skiers 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 all over the world and you have the best products that fit 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 (Small, Medium, Large, XL and XXL) 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 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 and HRS Junior products 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. 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

- Quickest system to the slopes
- Ease of use and sizing they understand
- Confidence-building ski 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.

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.
- On-site layout and rental shop design
- Two year warranty on all rental products
- Free replacement parts for two years
- Online certification and indemnification for shop employees

WHY NOT REDUCE THE FOLLOWING

- Fleet set-up time
- Number of units required to operate your fleet
- Rental shop staffing @ peak periods by 20%
- Staffing @ 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

RENTAL SYSTEMS (BYS AND HRS JUNIOR)



THE LINK PRO R

ARTICLE NUMBER

- 312567 Track
- 312587 black
- 312597 yellow

FEATURES

ERA 2.0, Early rise, Composite Radius Construction, SnakeSkin Surface, Woodcore, Torsion Box, Cap Construction, Black UHM C Base

DETAILS

LENGTHS	130 (XS) / 140 (S) / 150 (M) / 160 (L) / 170 (XL)
DIMENSIONS	125 / 69 / 106 @ length 150
RADIUS	10,0 @ length 150
BINDINGS	111567 SP 10 ABS PM 111877 BYS 10 Brake 85 [D]

COLOR CODE



THE LINK R

ARTICLE NUMBER

- 312437 Track
- 312447 black
- 312457 yellow

FEATURES

ERA 2.0, Early rise, Composite Radius Construction, SnakeSkin Surface, Synthetic core construction, Black UHM C Base

DETAILS

LENGTHS	140(S) / 150(M) / 160(L) / 170(XL) / 177(XXL)
DIMENSIONS	123 / 70 / 106 @ length 170
RADIUS	12,8 @ length 170
BINDINGS	111567 SP 10 ABS PM 111877 BYS 10 Brake 85 [D]

COLOR CODE



RENTAL SYSTEMS (BYS AND HRS JUNIOR)

BYS 10

ARTICLE NUMBER

111877 BYS 10 Brake 85 [D]

Solid Black/Anthracite

FEATURES

SX Toe with TRP System, Full Diagonal,

ABS - Anti Blocking System, Rent Heel

STANDHEIGHT 21,0 mm

DIN 2.5 - 10

WEIGHT 1890 g

WEIGHTRANGE from 26 kg/ from 57 lbs

COLOR Solid Black/Anthracite



B.Y.S.

ARTICLE NUMBER

605745

FEATURES

3 sole Lengths, DIN interface for all rental bindings

LINER

Comfort liner, Sanitized® charcoal footbed, Prepared for heating System

BUCKLES

3 plastic buckles

1 Supermacro ratchet

DETAILS

LEVEL Beginner

FLEX INDEX 70

SIZES

235-245-...-265 (Black)

275-285-...-305 (Yellow)

315-310-...-340 (Silver)

SHELL PU/SL

COLOR Anthracite

SUPERSHAPE TEAM R & HRS

ARTICLE NUMBER

312727 HRS (red triangle), Length 67/77/87

312737 HRS (blue square), Length 77/87/97

312747 HRS (black diamond), Length 87/97/107

312757 HRS (white circle), Length 107/117

312607 Track 4.5, Length 87/97/ 107/117

312627 Track 7.5, Length 117/127/ 137

312637 R SLR 2, 312647 R

Length 67/77/87/97/107/117/127/

137/147/157

FEATURES

Jr. Power Frame, ERA 2.0,

Structured Surface, Black UHM C Base

DETAILS

DIMENSIONS

103/65/89 @ length 87 (Track 4.5)

111/67/96 @ length 127 (Track 7.5)

103/65/89 @ length 87 (SLR II)

RADIUS 4,0 @ length 87 (Track 4.5)

8,0 @ length 127 (Track 7.5)

4,0 @ length 87 (SLR II)

BINDINGS 111577 B²YS 4.5 AC Brake 74 [K]

111670 SP 7.5 AC PM

111572 SP 4.5 AC PM

114071 SLR 7.5 AC Brake 78 [H]

114073 SLR 4.5 AC Brake 74 [I]



SX 4.5 R AC

ARTICLE NUMBER

111577 B²YS 4.5 AC

Brake 74 [K] Solid Black

FEATURES

SX Kid Toe with TRP System, Full

Diagonal, AFS Junior, SX Kid Heel

STAND HEIGHT 15,0mm

DIN 0.75 - 4.5

WEIGHT 1195 g

WEIGHT RANGE 10 - 48 kg / 22 - 105 lbs

COLOR Solid Black



Z1 HRS

ARTICLE NUMBER

606634

FEATURES

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

LINER

Junior rental liner
Comfort footbed

BUCKLES

1 plastic buckle

DETAILS

level	Beginner
sizes	155-165 Blue 175-185 Black
shell	PU / SL
color	Anthracite/ White



Z2 HRS

ARTICLE NUMBER

606633

FEATURES

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

LINER

Junior rental liner
Comfort footbed

BUCKLES

2 plastic buckles

DETAILS

level	Beginner
sizes	195-205 Yellow 215-225 Silver
shell	PU/SL
color	Anthracite/ White





ADULT RENTAL

ARTICLE NUMBER

381425

DIAMETER 18 x 1 mm

LENGTH 110 - 135 cm

COLORS Color Coded Basket

FEATURES

7075 Aluminum,
Cosmetics Screen Printed,
Length Indication in both cm and
Inch, Large Surface Color Coding,
Soft Touch Grip

ADULT RENTAL SUBLIMATED

ARTICLE NUMBER

381447

DIAMETER 18 x 1 mm

LENGTH 110 - 135 cm

COLORS Color Coded Basket

FEATURES

7075 Aluminum,
Cosmetics Sublimated and
Customizable, Length Indication
in both cm and Inch,
Large Surface Color Coding,
Soft Touch Grip

JUNIOR RENTAL

ARTICLE NUMBER

381435

DIAMETER 16 x 0,8 mm

LENGTH 70 - 105 cm

COLORS Color Coded Basket

FEATURES

7075 Aluminum,
Cosmetics Screen Printed,
Length Indication in both cm and
Inch, Large Surface Color Coding,
Soft Touch Grip



JUNIOR RENTAL SUBLIMATED

ARTICLE NUMBER

381457

DIAMETER 16 x 0,8 mm

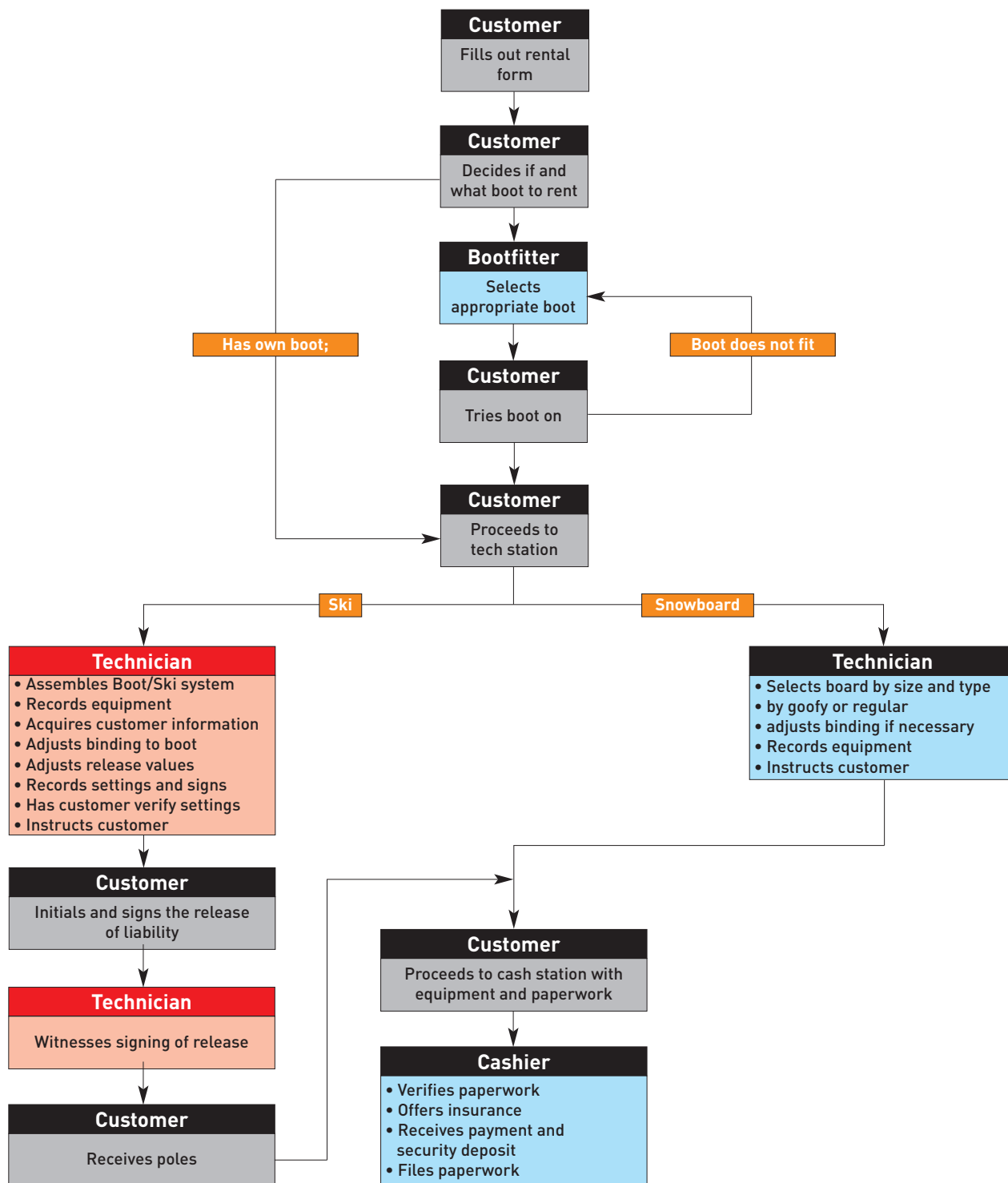
LENGTH 70 - 105 cm

COLORS Color Coded Basket

FEATURES

7075 Aluminum,
Cosmetics Sublimated and
Customizable, Length Indication
in both cm and Inch,
Large Surface Color Coding,
Soft Touch Grip

SKI & SNOWBOAERD RENTAL PROCESS



This is a sample flow chart only. Sections marked in red are to be performed by the certified TYROLIA Rental Technician. The sequence of the steps can change according to the individual shop lay out.

NOTES:



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

PERFORMANCE FEATURES

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

WEIGHT REDUCTION

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



HEAD/TYROLIA RENTAL LINE 2017.18

SP 13 ABS

114097 - solid black/white, Brake 85 [D]

FEATURES

- RX OT Toe with TRP System
- Full Diagonal
- ABS - Anti Blocking System
- Rent One Touch Heel
- Dura-Coated

STANDHEIGHT

31 mm

DIN

4 - 13

WEIGHT

2600g



SP 10 ABS

111872 - solid black/anthracite, Brake 85 [D]
111566 - solid black/anthracite, w/o Brake [D]
111567 - solid black/anthracite, pm
(pre mounted; Needs Trackset)

FEATURES

- SX One Touch Toe with TRP
- Full Diagonal
- ABS - Anti Blocking System
- Rent One Touch Heel
- Solid Colored

STANDHEIGHT

31 mm

DIN

2.5 - 10

WEIGHT

2560g



SP 7.5 AC

111874 - solid black/anthracite, Brake 85 [D]
111670 - solid black/anthracite, pm, Brake 85 [D]
(pre mounted; Needs Trackset)

FEATURES

- SX Junior One Touch Toe with TRP System
- Full Diagonal
- AFS Jr. - Anti Friction Slider Junior
- Rent OT Heel
- Solid Colored

STANDHEIGHT

31 mm

DIN

1.5 - 7.5

WEIGHT

2420g



SP 4.5 AC

111571 - solid black, Brake 74 [K]
111572 - solid black, pm
(pre mounted; Needs Trackset)

FEATURES

- SX Kid One Touch Toe with TRP System
- Full Diagonal
- AFS Jr. - Anti Friction Slider Junior
- SX Kid One Touch Heel
- Solid Colored

STANDHEIGHT

25 mm

DIN

0.75 - 4.5

WEIGHT

1630g



SR 10 / SRM 10

111876 - solid black/anthracite, Brake 85 [D]

FEATURES

- SX Toe with TRP System
- Full Diagonal
- Rent One Touch Heel
- Solid Colored

STANDHEIGHT

22 mm

DIN

2.5 - 10

WEIGHT

2140g



SR 4.5 AC / SRM 4.5 AC

111574 - solid black, Brake 74 [K]

FEATURES

- SX Kid Toe with TRP System
- Full Diagonal
- AFS Jr. - Anti Friction Slider Junior
- SX Kid One Touch Heel
- Solid Colored

STANDHEIGHT

15 mm

DIN

0.75 - 4.5

WEIGHT

1280g



BYS 10

111877 solid black/anthracite, Brake 85[D]

FEATURES

- SX toe with TRP system
- Full diagonal
- ABS - Anti Blocking System
- Rent heel
- Solid colored

STANDHEIGHT

21mm

DIN

2.5 - 10

WEIGHT

1890g



SX 4.5 R AC

114190 - solid black, Brake 74 [K]

FEATURES

- SX Kid Toe with TRP System
- Full Diagonal
- AFS Jr. - Anti Friction Slider Junior
- Solid Colored

STANDHEIGHT

15 mm

DIN

0.75 - 4.5

WEIGHT

1290g



ATTACK² 13 AT DEMO

114150 - solid black, w/o Brake [F]
114151 - solid black, Brake 95 [F]
114152 - solid black, Brake 110 [F]

FEATURES

- FR Pro² AT Toe with TRP
- AFS Metal
- Attack Demo
- NX FR Heel
- Solid Colored
- Length Adjustment: 259-382mm

STANDHEIGHT

32 mm

DIN

4 - 13

WEIGHT

2550 g



ATTACK² 11 AT DEMO

114154 - solid black, w/o Brake [G]
114155 - solid black, Brake 90 [G]
114156 - solid black, Brake 100 [G]

FEATURES

- FR² Pro² Toe with TRP
- AFS Metal
- Attack Demo
- SX FR Heel
- Solid Colored
- Length Adjustment: 259-382mm

STANDHEIGHT

29,5 mm

DIN

3 - 11

WEIGHT

2430 g



PR 11 MBS

114159 - solid black, w/o Brake (G)
114160 - solid black, Brake 85 (G)
114161 - solid white, Brake 85 (G)
114163 - solid white, Brake 90 (G)

FEATURES

- AM Toe with TRP System
- Full Diagonal
- AFS - Anti Friction Slider
- suitable for all PR bases
- SX FR Heel

STANDHEIGHT

31 mm

DIN

3 - 11

WEIGHT

1880g



PR 11

114174 - solid black/white, w/o Brake (G)
114164 - solid black/white, Brake 85 (G)

FEATURES

- SX Toe with TRP System
- Full Diagonal
- AFS - Anti Friction Slider
- PowerRail
- SX Heel

STANDHEIGHT

31 mm

DIN

3 - 11

WEIGHT

1770g



SLR 9.0 AC / JOY 9.0 SLR AC

114061 - solid black/white, Brake 78 [H]
114168 - solid white, Brake 85 [H]
100694 - white/black, Brake 78 [H]

FEATURES

- SX Lite Toe with TRP System
- Full Diagonal
- AFS Jr.- Anti Friction Slider Junior
- SLR / SLR II
- SX Lite Heel

STANDHEIGHT

28 mm

DIN

2.5 - 9

WEIGHT

1400g



SLR 7.5 AC

100679 - solid white/black, Brake 78 [H]

FEATURES

- SX Junior Toe with TRP System
- Full Diagonal
- AFS Jr.- Anti Friction Slider Junior
- SLR /SLR II
- SX Junior Heel
- Dura-Coated

STANDHEIGHT

27 mm

DIN

2 - 7.5

WEIGHT

1360g



SLR 4.5 AC

100683 solid white/black, Brake 74 [I]

FEATURES

- SX Kid Toe with TRP System
- Full Diagonal
- AFS Jr.- Anti Friction Slider Junior
- SLR / SLR II
- SX Kid Heel
- Dura-Coated

STANDHEIGHT

27 mm

DIN

0.75 - 4.5

WEIGHT

1250g



HEAD/TYROLIA RENTAL LINE 2017.18

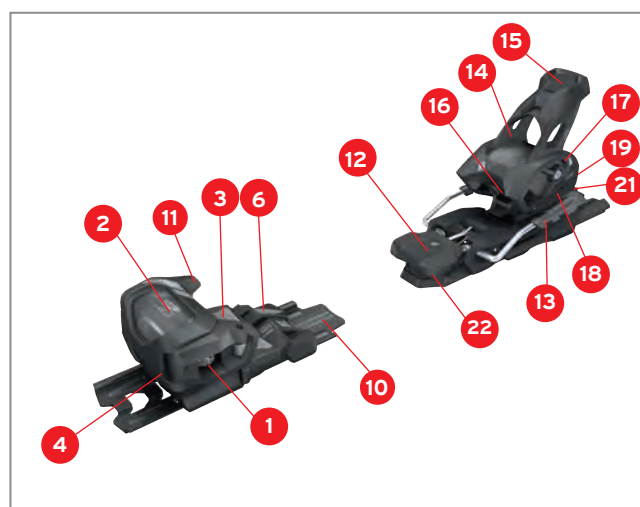
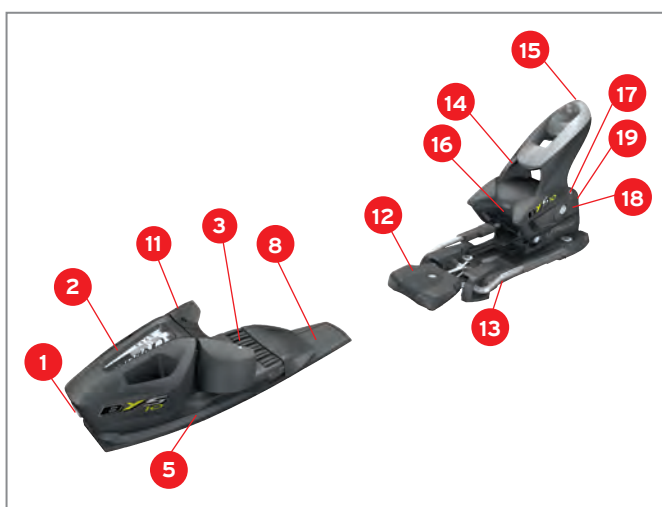
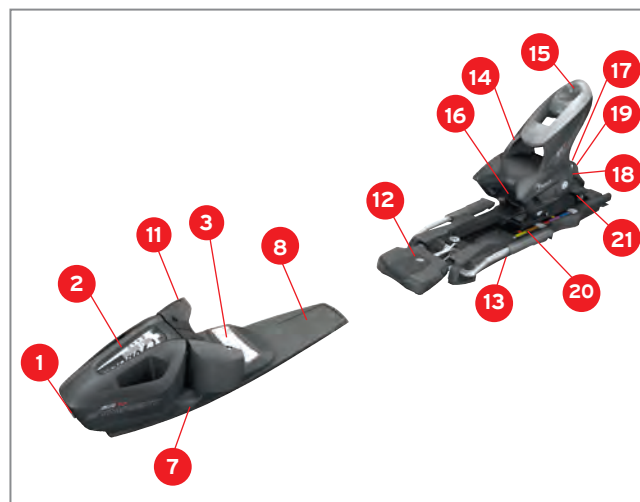
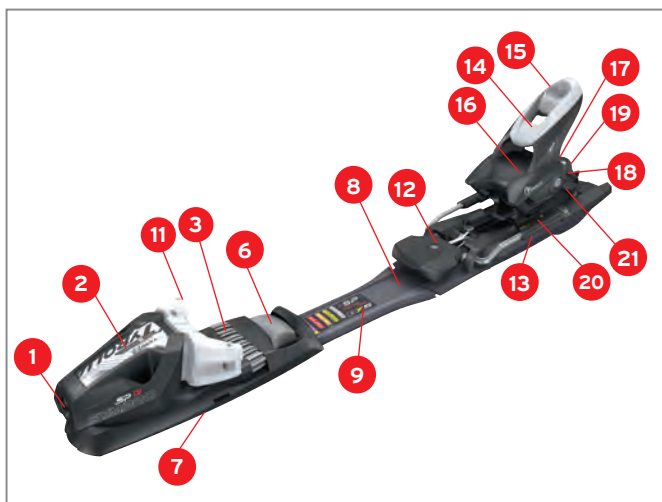
Model	Ramp angle	Z - DIN	kg	lbs	Set- Weight [g]	Drill Template	Toe				
							Type	System	AFD	Stand Height [mm]	
AAA-SERIES											
ATTACK 13 DEMO w/o BRAKE [D]	1-4	4-13	from 42	from 92	2570	Attack Demo	FR PRO OT	---	AFD metal	19-22	
ATTACK 13 DEMO BRAKE 95 [D]	1-4	4-13	from 42	from 92	2570	Attack Demo	FR PRO OT	---	AFD metal	19-22	
ATTACK 13 DEMO BRAKE 110 [D]	1-4	4-13	from 42	from 92	2570	Attack Demo	FR PRO OT	---	AFD metal	19-22	
ATTACK 11 DEMO BRAKE 90 [G]	2,5-5,5	3-11	from 31	from 67	2320	Attack Demo	FR PRO OT	---	AFD metal	24-27	
ATTACK 11 DEMO BRAKE 100 [G]	2,5-5,5	3-11	from 31	from 67	2320	Attack Demo	FR PRO OT	---	AFD metal	24-27	
ATTACK 11 DEMO BRAKE 115 [G]	2,5-5,5	3-11	from 31	from 67	2320	Attack Demo	FR PRO OT	---	AFD metal	24-27	
SYSTEM											
PR 11 BRAKE 78 [G]	7,0	3-11	from 31	from 67	1770	Bases & Plates	SX	Full Diagonal	AFS	24,0	
PR 11 BRAKE 90 [G]	7,0	3-11	from 31	from 67	1770	Bases & Plates	SX	Full Diagonal	AFS	24,0	
JOY 9.0 SLR AC BRAKE 78 [H]	5,5	2,5-9	from 26	from 57	1400	SLR & LR	SX Lite	Full Diagonal	AFS Jr.	21,5	
SLR 9.0 AC BRAKE 78 [H]	5,5	2,5-9	from 26	from 57	1400	SLR & LR	SX Lite	Full Diagonal	AFS Jr.	21,5	
SLR 7.5 AC BRAKE 78 [H]	5,5	2-7,5	22-84	48-187	1360	SLR & LR	SX Jr.	Full Diagonal	AFS Jr.	21,5	
SLR 4.5 AC BRAKE 74 [I]	5,5	0,45-4,5	10-48	22-105	1250	SLR & LR	SX Kid	Full Diagonal	AFS Jr.	21,5	
SYMPRO											
SP 13 ABS W/O BRAKE [D]	5,0	4-13	from 42	from 92	2600	SP 2003 W / SP 2003 FAT yellow bushings	RX OT	Full Diagonal	ABS	26,0	
SP 13 ABS BRAKE 85 [D]	5,0	4-13	from 42	from 92	2600	SP 2003 W / SP 2003 FAT yellow bushings	RX OT	Full Diagonal	ABS	26,0	
SP 10 ABS BRAKE 85 [D]	5,0	2,5-10	from 26	from 57	2560	SP 2003 W / SP 2003 FAT yellow bushings	SX OT	Full Diagonal	ABS	26,0	
SP 10 ABS W/O BRAKE [D]	5,0	2,5-10	from 26	from 57	2260	SP 2003 W / SP 2003 FAT yellow bushings	SX OT	Full Diagonal	ABS	26,0	
SP 10 ABS BRAKE 110 [D] (6mm screws)	5,0	2,5-10	from 26	from 57	2560	SP 2003 W / SP 2003 FAT yellow bushings	SX OT	Full Diagonal	ABS	26,0	
SP 7.5 AC BRAKE 85 [D]	5,0	1,5-7,5	18-84	39-187	2420	SP 2003 W / SP 2003 FAT white bushings	SX Jr. OT	Full Diagonal	AFS Jr.	26,0	
SP 4.5 AC BRAKE 74 [K]	1,0	0,75-4,5	10-48	22-105	1630	SP 2003 W / SP 2003 FAT red bushings	SX Kid OT	Full Diagonal	AFS Jr.	24,0	
SYMRENT											
SR 10 BRAKE 85 [D]	6,5	2,5-10	from 26	from 57	2140	SR 2003 W yellow arrow	SX	Full Diagonal	Teflon	15,5	
SR 4.5 AC BRAKE 74 [K]	1,5	0,75-4,5	10-48	22-105	1280	SR 2003 W red arrow (green arrow) *	SX Kid	Full Diagonal	AFS Jr.	13,5	
BYS											
BYS 10 BRAKE 85 [D]	3,5	2,5-10	from 26	from 57	1890	92 W / 92 FAT	SX	Full Diagonal	ABS	17,5	
SX 4.5 R AC BRAKE 74 [K]	1,5	0,75-4,5	10-48	22-105	1190	94 W	SX Kid	Full Diagonal	AFS Jr.	13,5	
PROMO											
SRM 10 BRAKE 85 [D]	6,5	2,5-10	from 26	from 57	2140	SR 2003 W yellow arrow	SX	Full Diagonal	Teflon	15,5	
SRM 4.5 AC BRAKE 74 [K]	1,5	0,75-4,5	10-48	22-105	1280	SR 2003 W red arrow	SX Kid	Full Diagonal	AFS Jr.	13,5	

DATASHEET

		Heel					Boot Sole			
	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
	26	Rent OT	Rental	w/o Brake [D]	23,0	60	q - 5	22 -34	259-386	Adult
	26	Rent OT	Rental	Power Brake ² LD 95 [D]	23,0	60	q - 5	22 -34	259-386	Adult
	26	Rent OT	Rental	Power Brake ² LD 110 [D]	23,0	60	q - 5	22 -34	259-386	Adult
	26	SX	Standard	Powerrail Brake SL 90 [G]	29,5	60	q - 4	22 - 34	259-382	Adult
	26	SX	Standard	Powerrail Brake SL 100 [G]	29,5	60	q - 4	22 - 34	259-382	Adult
	26	SX	Standard	Powerrail Brake SL 115 [G]	29,5	60	q - 4	22 - 34	259-382	Adult
	26	SX	Standard	Powerrail Brake SL 78 [G]	31,0	60	q - 3	21 - 34	257-380	Adult
	26	SX	Standard	Powerrail Brake SL 90 [G]	31,0	60	q - 3	21 - 34	257-380	Adult
	25	SX Lite	Standard	SL Brake LR 78 [H]	27,0	40	b - w/F l - P r/a - V	15 - 24 18 - 27 21 - 30	S:199 - 283 M:239 - 323 L:263 - 347	A / C
	25	SX Lite	Standard	SL Brake LR 78 [H]	27,0	40	b - w/F l - P r/a - V	15 - 24 18 - 27 21 - 30	S:199 - 283 M:239 - 323 L:263 - 347	A / C
	25	SX Jr.	Standard	SL Brake LR 78 [H]	27,0	40	b - w/F l - P r/a - V	15 - 24 18 - 27 21 - 30	S:199 - 283 M:239 - 323 L:263 - 347	A / C
	25	SX Kid	Standard	SX Kid Brake LR 74 [I]	27,0	40	b - w/F l - P r/a - V	15 - 24 18 - 27 21 - 30	S:199 - 283 M:239 - 323 L:263 - 347	A / C
	64	Rent OT	Rental	w/o Brake [D]	31,0	60	A - 6	22 - 36	263 - 391	Adult
	64	Rent OT	Rental	Power Brake ² LD 85 [D]	31,0	60	A - 6	22 - 36	263 - 391	Adult
	64	Rent OT	Rental	Power Brake ² LD 85 [D]	31,0	60	A - 6	22 - 36	263 - 391	Adult
	64	Rent OT	Rental	w/o Brake [D]	31,0	60	A - 6	22 - 36	263 - 391	Adult
	64	Rent OT	Rental	Power Brake ² LD 110 [D]	31,0	60	A - 6	22 - 36	263 - 391	Adult
	64	Rent OT	Rental	Power Brake ² LD 85 [D]	31,0	60	f - U	17 - 30	215 - 343	A / C
	48	SX Kid OT	Rental	SX Kid Brake 74 [K]	25,0	52	a - H	15 24.5	191 - 294	A / C
	---	Rent OT	Rental	Power Brake ² LD 85 [D]	22,0	84	A - V	22 - 31	263 - 351	Adult
	---	SX Kid OT	Rental	SX Kid Brake 74 kurz [K]	15,0	52	b - o J - w/F	15 - 21	199 - 255 (231 - 287) *	A / C
	---	Rent	Standard	Power Brake ² LD 85 [D]	21,0	---	Black Yellow Silver	23.5 - 26.5 27.5 - 30.5 31.0 - 34.0	289 329 365	Adult
	-	SX Kid	Standard	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
	---	Rent OT	Rental	Power Brake ² LD 85 [D]	22,0	84	A - V	22 - 31	263 - 351	Adult
	---	SX Kid OT	Rental	SX Kid Brake 74 kurz [K]	15,0	52	b-o	15 - 21	199 - 255	A / C

* Sparepart: 162970, A/C...Adults & Children

REFERENCE CHART - RENTAL



TOE PIECE

- 1 Adjustment screw
- 2 Visual indicator
- 3 ABS/AFD/AFD Teflon
- 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

ATTACK² AT DEMO

TYROLIA:

ATTACK² 13 AT DEMO
ATTACK² 11 AT DEMO

MOUNTING - Bindings

Mounting and adjusting the Attack AT Demo Bindings is extremely 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).



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



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.



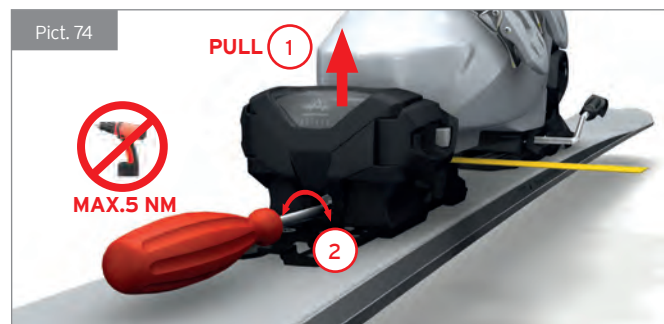
5. SOLE HEIGHT ADJUSTMENT

The new Attack² AT DEMO provides full AT adjustability for alpine and touring boots, including GripWalk, Walk sole and Walk To Ride.

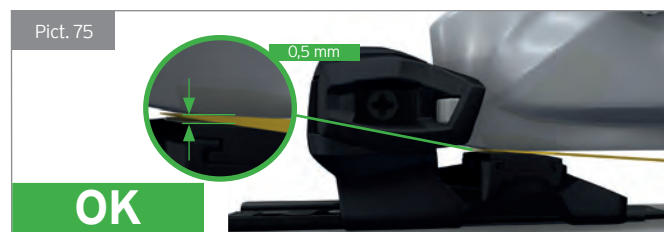
	ISO 5355	TOURING - ISO 9523		
	Alpine Adult (A)	GripWalk (GW)	Walk Sole Walk To Ride (W)	Touring (T)
Attack ² AT DEMO	X	X	X	X

x...suitable o...not suitable

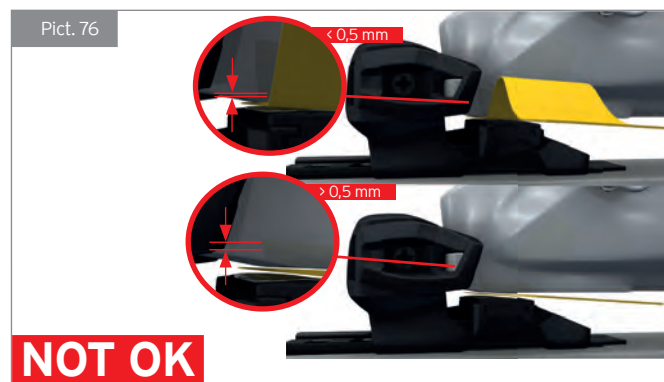
For proper function the height of the AFD/AFS must be adjusted to the height of the boot sole. HEAD/TYROLIA recommends using the "TYROLIA boot height adjustment tester" (Art. No. 162983) to get the ideal distance of 0.5 mm between boot and AFS. Turning the adjustment screw at the toe moves the AFD up 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.



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



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.



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.



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!

7. ADJUSTMENT OF THE RELEASE VALUES

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

NOTE: Release/ Retention settings above a release moment of 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!

8. FUNCTION CHECK

Check the function of the heel. Make sure that the boot does not catch on the heel during entry and exit. Check the brake function by pressing down the brake pedal (1) by hand. The

brake arms (2) 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.

10. 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 378 mm. All PRD and PR bindings can be combined with all types of Powerrail bases:

HEAD:

PRD 12 MBS
PR 11 MBS

PRD 12
PR 11

TYROLIA:

PRD 12 MBS
PR 11 MBS

PRD 12
PR 11

NOTE: HEAD/TYROLIA offers different types of brakes for POWERRAIL bindings. Refer to the brake overview on page 29 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).

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.



Now hook the brake into the heel housing.



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.



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.



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.



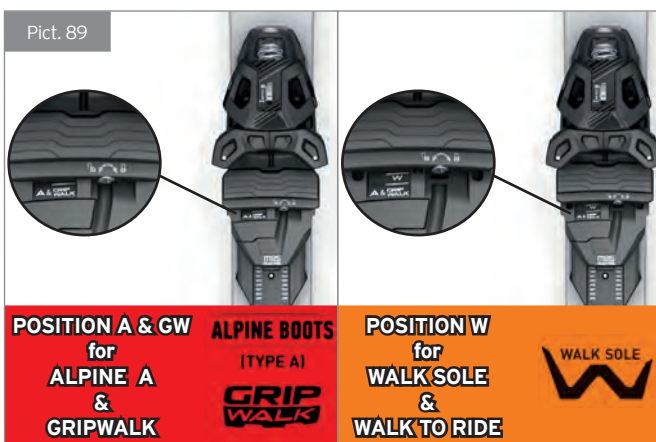
ADAPTATION:

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.

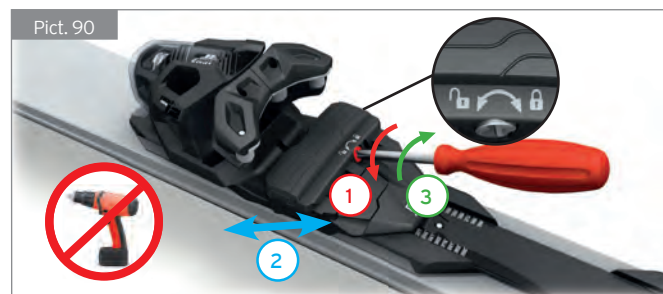
5.3. HEIGHT ADJUSTMENT - MBS BINDINGS

All MBS models are suitable for Alpine (ISO 5355), GripWalk and Walk Sole/Walk To Ride ski boots. For proper function the AFS must be adjusted correctly to the boot.

Use position A/GW for Alpine and GripWalk and position W for Walk Sole/Walk To Ride.



Adjustment is simple and easy: Just open the fixing screw by hand (only a quarter turn) (1), move the slider to the appropriate position (2) and then close the fixing screw (3) (Pict.90). No further adjustments or fine tuning with a paper strip are necessary.



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 27).

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. 16).

Pict. 16



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.

HEAD/TYROLIA SUPERLITERAIL SYSTEM

TYROLIA:

SUPERLITE RAIL Base (SLR Base)

SUPERLITE RAIL II Base (SLR II Base)

The SLR base (SuperLiteRail) is available in only one size, and it covers sole lengths ranging from 255 - 338 mm. The three sizes of the SLR II base (SuperLiteRail II) covers a boot sole range of 199 mm to 347 mm. All SLR Bindings are compatible with both bases - SuperLiteRail and SuperLiteRail II Base.

MODEL	BOOT SOLE RANGE
SLR Base	255 - 338 mm
SLR II Base (S)	199 - 283 mm
SLR II Base (M)	239 - 323 mm
SLR II Base (L)	263 - 347 mm

MOUNTING - BINDINGS

Mounting and adjusting the SLR 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. 18



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. 19).

Pict. 19



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?

Now hook the brake into the heel housing (Pict. 20).

Pict. 20



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. 21)

Pict. 21



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. 22).

Pict. 22



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 JUNIOR ON DIN 9.0 AC, 7.5 AC AND DIN 4.5 AC MODELS

The SX Lite, SX Junior and SX Kid Line is suitable for both adult (type A) and children (type C) boots: the innovative mechanical Anti Friction Slider (AFS) automatically adjusts to the boot sole height, compensating A/C standards as well as height differences due to icing up, dirt or boot wear (Pict. 23).

Pict. 23



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. 162962), which is for children (type C) 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. 24).

Pict. 24



SYMPRO - SYMRENT -SYSTEM

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

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 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 (SLR 7.5 AC, SLR 4.5 AC - 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?

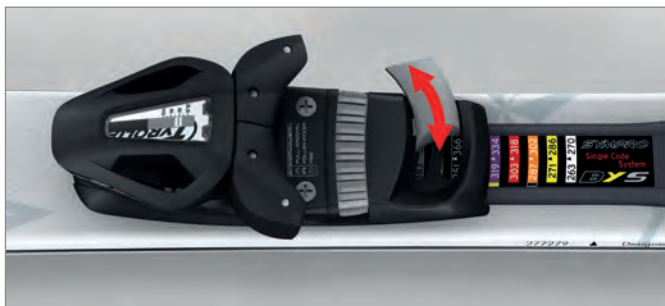
THE TYROLIA-RENTAL BINDINGS

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 13 ABS SP 10 ABS

- Hand lever-adjusted heel (60 mm) and toe (64 mm)
- 7-toe positions
- DIN-ranges from 2.5 up to 13 that accommodate even high level skiers
- Short, lightweight heel track, despite wide adjustment range
- SINGLE CODE: "A-6" for ski boots from 263-391 mm sole length
- Replaceable brake
- Diagonal toe
- Optimal for Carving skis, minimized deviation between ski and boot mounting point



SP 7.5 AC SP 4.5 AC

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

- Automatic toe and heel pieces accept child and adult boot sole dimensions, giving you full utilization of your child/junior ski inventory
- SINGLE CODE
a-H for ski boots from 191-294mm sole length (SP 4.5 AC) and
- f-U for ski boots from 215-343 mm sole length (SP 7.5 AC)
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.
- For skis, groups G3 & G4
- DIN range 0.75 up to 7.5

SYMRENT:

SR 10 SRM 10

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

SR 4.5 AC SRM 4.5.AC

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

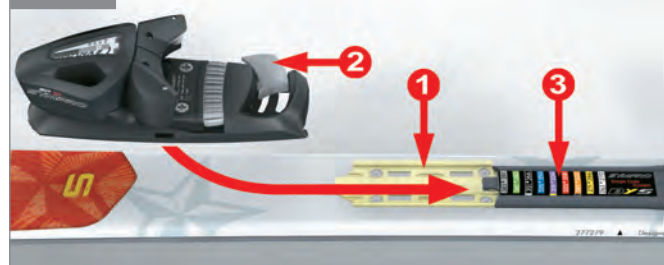
ADJUSTMENT:

Measure the boot with the Rental Boot Indicator and determine the single code. If the boot is already coded you can use the

predetermined single code.

For Sympro toes open the ONE TOUCH hand lever (Pict.26) and slide the toe piece to the desired single code position on the track. This will center the boot on the ski. Release the lever 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. 26



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.

Pict. 27



Forward pressure should be correct. Verify that the indicator located at the rear end of the heel piece rests in the scribed area of the toothed lock with the boot inserted. If a boot of unknown size is used proceed as follows: Measure the boot sole length in mm. Adjust the toe to the appropriate position. This will center the boot on the ski. Insert the boot. Open the heel piece and slide it forward until the heel cup touches the boot. Look the heel piece. Close the binding with the boot inserted and check the forward pressure (Pict 28).

Pict. 28



All toe units come with an automatic sole-lug accepting standard bootsoles. The release-/retention value should be based on the Body Weight Method according to ASTM/ISO standards. Determine the toe and heel indicator setting from the table and set the binding accordingly. Don't use a screw-shooter for this.

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.



TYP I

Cautious skiing on smooth slopes of gentle to moderate pitch.

Skiers not classified as Types I or III

TYP II



TYP III

Fast skiing on slopes of moderate to steep 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 who designate themselves as Type II receive average release/retention settings appropriate for most recreational skiing.

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

If you are unsatisfied with the release/retention settings that result from your classification please mention this to your binding technician.

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.

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.

													
					1	2	3	4	5	6	7	8	
					SINGLE CODE								
		Skier Code						BYS					
kg (lbs)	cm (ft 'in")		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	≥ 350	
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 tolerance limit b...Uppermost tolerance limit													

a...Lowermost tolerance limit
b...Uppermost tolerance limit

HOW TO USE THE RELEASE/ RETENTION ADJUSTMENT TABLE:

- 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.
- 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 74).
- 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.
- Find the column that corresponds to the skier's boot sole measurement in millimeters.
- 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.
- 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:

- Using the skier's weight only, locate the appropriate SKIER CODE (answer: J).
- Using the skier's height only, locate the appropriate SKIER CODE (answer: K).
- If the SKIER CODE for height and weight are different, select the SKIER CODE closer to the top of the chart (answer: J).
- 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).
- Move up one SKIER CODE if the skier is age 50 or older or under 10 (answer: K).
- 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 A:	Single Code K	Skier Code	Rel./Ret. Value
	Single Code M		
Skier B:	Single Code Z	Skier Code	Rel./Ret. Value
	Single Code M		
Skier C:	Single Code N	Skier Code	Rel./Ret. Value
	Single Code G		
Skier D:	Single Code F	Skier Code	Rel./Ret. Value
	Single Code I		

Note:

If the skier reports release/retention problems see the chapter "trouble shooting release/retention problems", page 32 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+).

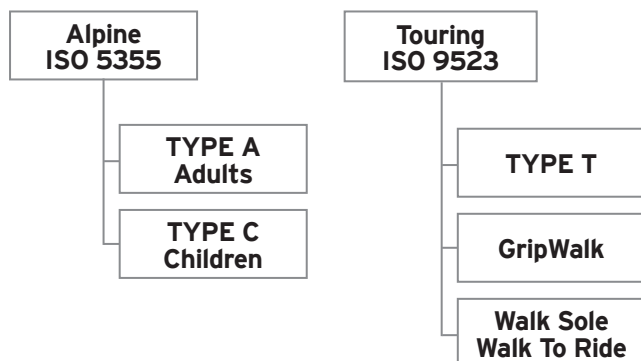
Type III+ -Move down the table three skier codes.

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 TYPES - ISO STANDARDS AND COMPATIBILITY

1. BOOT STANDARDS

Actually there are two different boot sole standards on the market. The ISO 5355 (corresponding to binding standard ISO 9642) defines all alpine boots for adults and children and the ISO 9523 (corresponding to binding standard ISO 13992) defines a wide range of touring ski boots, including Grip Walk, Walk Sole and Walk To Ride.



New sub categories (GripWalk, Walk Sole and Walk To Ride) try to combine the advantages of both 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.
- The boots are designed not according to ISO 5355 (ALPINE), but to ISO 9523 (TOURING) specifications, which means they will work only on bindings with the corresponding compatibility.

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



TOURING BOOTS ISO 9523

In case there is no other marking, in addition to ISO 9523, the boot is a regular touring boot, neither belonging to GripWalk nor Walk Sole/ Walk To Ride. In this case the boot will only work in bindings with AT compatibility.



TOURING BOOTS ISO 9523 - GripWalk

To help identify a GripWalk boot the GripWalk icon and ISO marking are incorporated in the sole. The boot is also marked with a sticker placed in the toe area. HEAD boots will also show a GripWalk print on the side of the heel pad. 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.



TOURING BOOTS ISO 9523 - Walk Sole

The replaceable HEAD Walk soles are color-coded in orange. The ISO 9523 marking is visible on the toe pad (Pict.138). You will find the WALK - logo on the side of the heel pad (Pict.139).



Pict. 139



TOURING BOOTS ISO 9523 - Walk To Ride (WTR) boots

To identify Walk To Ride boots please check the boot for the Walk To Ride logo and the ISO identification (ISO 9523). This information is generally shown, directly on the sole of the toe and heel 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 ² GW	E.g. for an Attack ² AT	E.g. for an MBS model
This binding model can be used with ski boots that meet following current industry standards - ALPINE TYPE A (ÖNORM/DIN/ISO 5355) and GRIPWALK (ÖNORM/DIN/ISO 9523).	This binding model can be used with ski boots that meet following current industry standards - ALPINE TYPE A (ÖNORM/DIN/ISO 5355) and TOURING TYPE T (ÖNORM/DIN/ISO 9523) including GripWalk, Walk Sole and Walk To Ride.	This binding model can be used with ski boots that meet following current industry standards - ALPINE TYPE A (ÖNORM/DIN/ISO 5355), GRIPWALK and WALK SOLE/ WALK TO RIDE (ÖNORM/DIN/ISO 9523).

BOOT - BINDING - COMPATIBILITY - CHART

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

		ISO 5355		TOURING - ISO 9523		
		Alpine Adult (TYPE A)	Alpine Children (TYPE C)	 GripWalk	 Walk Sole Walk to Ride	no further specification
Binding without any specification*		✓	X	X	X	X
Binding with "AC"		✓	✓	X	X	X
Binding with "GW"		✓	X	✓	X	X
Binding with "MBS"		✓	X	✓	✓	X
Binding with "AT"		✓	X	✓	✓	✓

*specification 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

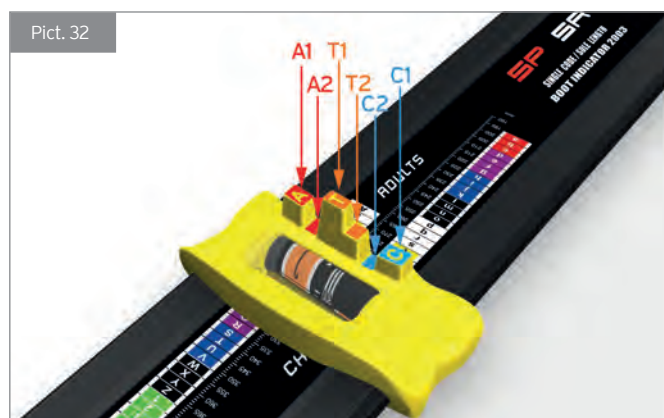
- Ski boots must meet international standard specifications.
- Use the HEAD/TYROLIA Boot Rental Indicator to determine whether wear is excessive. The most critical dimension for HEAD/TYROLIA bindings is the front surface and height of the boot toe. Any boots worn past the indicated amounts should be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



THE HEAD/TYROLIA BOOT INDICATOR Art. No. 162617

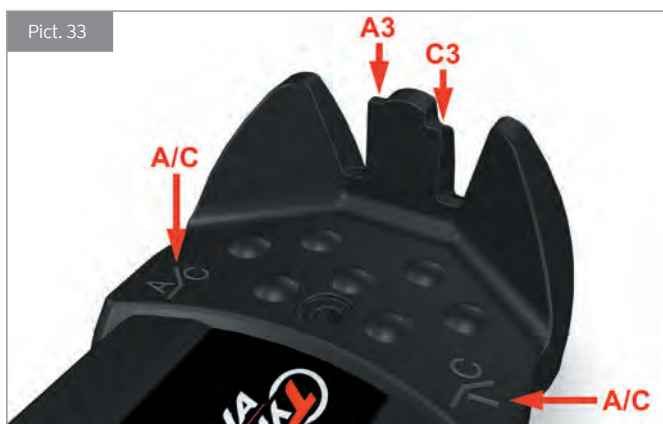
This TYROLIA rental boot device is a multifunction-tool:

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. 32).
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. 32). Replace toe pads if worn.



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. 33).

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



NOTE:

Any boot which passes points 3, 4 and 5, as well as conforming to the Visual Inspection Checklist, may be accepted for use with TYROLIA bindings.

Boots which fail any point should be repaired or replaced. These checks apply only to boots used with TYROLIA bindings. Consult other binding manufacturers for their used boot specifications.

CLEAN VS. LUBRICATED SKI BOOT TEST

This test is designed to determine the influence of a given boot on the release characteristic of a binding. It should be performed on boots not meeting all the points of the 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 38 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. 34).



NOTE: TYROLIA offers different types of brakes. Refer to the brake overview on page 33 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. 35



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 the guide lock has to be opened with a screwdriver (Pict. 36) to get the binding off.

Pict. 36



LUBRICATE

- the edge of the release cam under the heel lug as shown in Pict. 37.

Pict. 37



- both sides of the heel track (inside) over the entire length
- the bearings of the opened hand lever on both sides (Pict. 38).

Pict. 38



- 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 SP 4.5 AC AND SR 4.5 AC

LUBRICATE

- the contact areas between housing and the release cam on the frontside and the backside as shown in Pict. 39 and 40.
- both sides of the heel track (inside) over the entire length.

Pict. 39



- the guiding channel of the release setting adjustment screw (Pict. 40).

Pict. 40



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 ISO 5355	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
FREEFLEX-drill pattern not fitting	Toe / equalizing bridge in wrong position	Dismount, place toe in correct position
	Drill template not locked	Re-adjust, drill new holes
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],[B],[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],[B],[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.

85/95/110/130/150mm



2. IDENTIFICATION AND NAMING SYSTEM

To make the brake-binding allocation as easy as possible, 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 packaged without brakes will come with a similar sticker.

Matching brakes and bindings has become fast and easy.

For a binding with a red sticker [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 2015.16 on the next page. 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.

Brake Code	BINDING MODEL	ART. NO.	BRAKE MODEL/WIDTH
D	SP 13 ABS	163044	Power Brake ² LD 85 [D]
	SP 10 ABS	163045	Power Brake ² LD 95 [D]
	SP 7.5 AC	163046	Power Brake ² LD 110 [D]
	BYS 10	163047	Power Brake ² LD 130 [D]
	SR 10	163048	Power Brake ² LD 150 [D]
	SRM 10		
F	ATTACK ² 13 AT DEMO	163050	Powerrail Brake ² LD 85 [F]
	PRD 12 MBS	163051	Powerrail Brake ² LD 95 [F]
		163052	Powerrail Brake ² LD 110 [F]
		163053	Powerrail Brake ² LD 130 [F]
G	ATTACK ² 11 AT DEMO	162943	Powerrail Brake SL 78 [G]
	PR 11 MBS	163084	Powerrail Brake SL 85 [G]
	PR 11	162944	Powerrail Brake SL 90 [G]
	PR 10	163078	Powerrail Brake SL 100 [G]
		162985	Powerrail Brake SL 115 [G]
H	SLR 10	162942	SL Brake LR 78 [H]
	SLR 9.0 AC	163085	SL Brake LR 85 [H]
	JOY 9.0 SLR AC	162949	SL Brake LR 90 [H]
	SLR 7.5 AC		
I	SLR 4.5 AC	162966	SX Kid Brake LR 74 [I]
		162967	SX Kid Brake LR 84 [I]
K	SP 4.5 AC	162965	SX Kid Brake 74 [K]
	SR 4.5 AC	162964	SX Kid Brake 84 [K]
	SRM 4.5 AC		
	SX 4.5 R AC		

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:

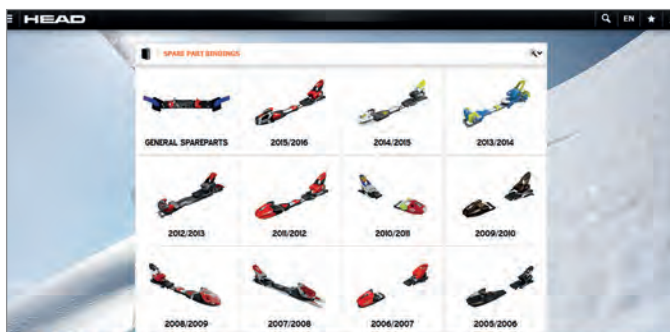
You may navigate through the Spare Parts OMS via two different modes:

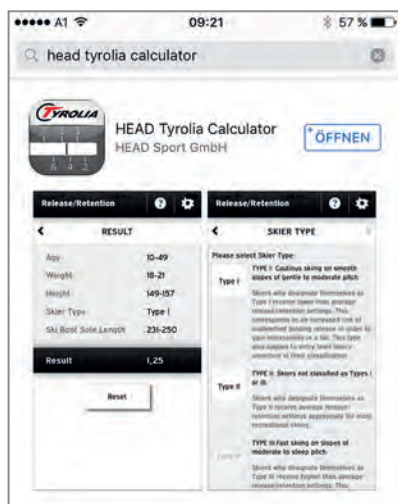
1. Product view mode
2. Spare part view mode

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.





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 2017.18 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 - Screwdriver incl. Pozidrive #3 Bit (160805) - Handy Ratchet incl. bits (162575 + 162576) - Slotted Screw Bit for Handy Ratchet - Pozidrive #3 Bit for Handy Ratchet - Pozidrive #3 Bit for Screwdriver 162800 and electric drivers hexagon. 1/4" (6.35 mm) - Pozidrive #3 Bit for electric driver (Black & Decker, Skill, Thor, Atlas-Copco, Virax, Consolidated, Bosch, Ingersoll-Rand), hexagon. 1/4" (6.35 mm) - Pozidrive #3 Bit for electric driver (Bosch, Metabo, AEG), hexagon. 1/4" (5.5 mm) - Pozidrive #3 Bit for electric driver (Fein, AEG) - Torx bit 25/50 - 1/4 inch	per piece per piece per piece per piece per piece per piece per piece per piece 10 pieces	160806 162800 162574 162575 162576 160805 160802
	- Service-Grease-Spray (500 ml) - TYROLIA Grease - TYROLIA Glue	per piece per piece per piece	162779 160052 160858
	Rubber band for brake	10 pieces	162562
	- Rental Boot Indicator (Single Code, mm) - Slide (replacement) for Rental Boot Indicator	per piece per piece	162617 162518
	SINGLE CODE Rental Boot Stickers (5 sheets)	per set	162561
	Height Adjustment Tester for AAA-Series and Freeflex EVO	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 2017.18 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 neverski 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 providing information, guidance and instruction to all customers.

SPECIFICALLY THIS MEANS:

- Providing product and suitability information to help customers make an informed choice of which equipment models are right for them. The amount and type of advice given will naturally be different for each customer.
- The shop's responsibility is to be sure that each product sold or serviced is appropriate for the needs of its user.
- The shop must provide accurate information about the nature of the sport, and what equipment can and cannot do.

Inform customers that there are risks inherent in the sport of skiing that no binding can protect against. It is imperative that each customer be informed there are limitations to the protection their equipment can afford and that injuries can and do occur in the normal course of skiing.

- Under no circumstances should you make any warranties or assertions about the customers safety on the hill. Speaking simply, no binding is "absolutely safe". Well designed shop record forms address the disclosure and agreement subject very directly and professionally. Use them to your advantage by making sure customers read and understand the form before signing it. The following points must be explained to all customers (rental or retail) before they leave the shop with their equipment (consumer awareness checklist):
- 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 available, 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 requirement 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.	HEAD CANADA INC.
3125 Sterling Circle Suite 101 Boulder, CO 80301 USA	P.O. Box 3620, Station Main Guelph Ontario N1H 7H1 Canada
Phone: 800-874-3235 720-708-6400	Phone: 800-265-7257 519-822-1576
Fax: 720-708-6419 www.tyrolia.com	Fax: 519-822-2202 www.tyrolia.com

USE OF NON-RECOMMENDED SETTINGS

SKIERS REQUESTING SETTINGS NOT RECOMMENDED BY HEAD/ TYROLIA

The 2017:18 HEAD/TYROLIA Release/Retention Adjustment Table is the only adjustment chart recommended for use by HEAD/TYROLIA dealers during the 2017:18 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 by 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 request 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.



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					Your Height					Skier Type (Circle One)					Boot Sole Length					Age					No. Of Days Wanted														
lbs kg					ft m in. cm					I II III					mm																								

Skier Code	Final Indicator Setting		Single Code
	L	R	
	Toe _____	_____	
	Heel _____	_____	
BOOT SOLE TYPE			
☐	Alpine Boot TYPE A (ISO 5355)	☐	Alpine Boot TYPE C (ISO 5355)
☐	Touring Boot (ISO 9523)	☐	WALK & WalkToRide (ISO 9523)
		☐	GripWalk (ISO 9523)
	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	S K I E R C O D E	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	
148-174 lbs 67-78 kg	5' 6"-5' 10" 167-178 cm	K			6,50	6,00	5,50	5,00	4,50	
175-209 lbs 79-94 kg	5' 11"-6' 4" 179-194 cm	L			7,50	7,00	6,50	6,00	5,50	
≥ 210 lbs ≥ 95 kg	≥ 6' 5" ≥ 195 cm	M				8,50	8,00	7,00	6,50	
		N				10,00	9,50	8,50	8,00	
		O				11,50	11,00	10,00	9,50	
		P						12,00	11,50	

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, INDEMNITY 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, INDEMNITY 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 occurrences 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



PLEASE PRINT CLEARLY

DATE OUT: _____ DATE IN: _____

LAST NAME: Sample FIRST NAME: Jennifer

ADDRESS / CITY: 101 - 111 * St. Anytown PROV. / STATE: MA COUNTRY: USA POSTAL CODE / ZIP: 11111011

PHONE NUMBER: 1110111101 E-MAIL: j.sample@anywhere.com LOCAL PHONE NUMBER: 11111010011

YOUR WEIGHT: 140 lbs 5 ft 7 in SKIER TYPE (Circle One): I II III BOOT SOLE LENGTH: 293 mm AGE: 35 NO. OF DAYS WANTED: 02

FOR OFFICE USE ONLY

Skier Code: K Final Indicator Setting: L 5.5 R 5.5 Single Code: J

BOOT SOLE TYPE

☒ Alpine Boot TYPE A (ISO 5255) ☐ Alpine Boot TYPE C (ISO 5255)

☐ Touring Boot (ISO 9523) ☐ WALK & WalkToRide (ISO 9523)

☐ OrigWalk (ISO 9523)

Rent Own ID# or Description

Skis: ☒ S12 845

Boots: ☐ ☒ EDGE + 811T

Poles: ☒ ☐

Suit: ☐ ☐

S-Board: ☐ ☐

SB-Boots: ☐ ☐

Cross-Country: ☐ ☐

Other: ☐ ☐

Other: ☐ ☐

Insurance: Yes ☒ No ☐

Comments: _____

Referred by: _____

AMOUNT PAID \$ \$ XX.XX

TECHNICIAN'S SIGNATURE: X JOHN Mastertech

WEIGHT LBS KG	HEIGHT FT" IN" CM	SKIER CODE	INITIAL INDICATOR VALUE									
			Boot sole length (mm)									
			230	231	251	271	291	311	331	351	371	
22-29 lbs 10-13 kg		A	0,75	0,75	0,75							
30-39 lbs 14-17 kg		B	1,00	0,75	0,75	0,75						
40-47 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"	H		3,50	3,00	3,00	2,75	2,50				
108-125 lbs 49-57 kg	4'11"-5'1"	I		4,50	4,00	3,50	3,50	3,00				
126-147 lbs 58-66 kg	5'2"-5'8"	J		5,50	5,00	4,50	4,00	3,50	3,00			
148-174 lbs 67-78 kg	5'6"-5'10"	K		6,50	6,00	5,50	5,00	4,50	4,00			
175-209 lbs 79-94 kg	5'11"-6'4"	L		7,50	7,00	6,50	6,00	5,50	5,00			
≥ 210 lbs ≥ 95 kg	≥ 6'5"	M			8,50	8,00	7,50	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		

I have read, understood and agreed to all terms and conditions on the reverse side of this form, including the WARNING, LIABILITY RELEASE, INDEMNITY 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 30/31.

Rental Ski Bindings

A vertical ruler with two scales. The left scale is in centimeters (cm), ranging from 90 to 230 in increments of 5. The right scale is in feet and inches (ft/in), ranging from 3' to 7'6" in increments of 6 inches. The ruler is marked with horizontal lines for each centimeter and inch, and smaller lines for millimeters and half-inches.

cm	ft/in
90	3'
95	
100	3'6"
105	
110	
115	4'
120	
125	
130	4'6"
135	
140	
145	
150	5'
155	
160	
165	5'6"
170	
175	
180	6'
185	
190	
195	6'6"
200	
205	
210	7'
215	
220	
225	7'6"
230	

kg	lbs	Stone
10	20	
	30	2
15	40	3
20	50	
	60	4
25	70	5
30	80	
	90	6
35	100	7
40	110	8
	120	
45	130	9
50	140	10
	150	
55	160	11
60	170	12
	180	
65	190	13
70	200	14
	210	
75	220	15
80	230	16
	240	
85	250	17
90	260	18
95		19
100		
105		
110		
115		
120		

42

PRE-SEASON AND IN-SEASON TESTING

PREPARING AND CHECKING RENTAL SYSTEMS

Customers usually don't treat rental equipment as gently and carefully as they would handle their private property. In order to keep your rental fleet as functional and appealing as possible, a systematic maintenance program is a must. The best results are obtained with an ongoing program that constantly checks boots, bindings and skis.

To keep the equipment in good condition while minimizing liability we recommend the following program (this is a requirement in the U.S.). In order to produce a truly efficient rental inventory some pre-season setup is required.

SINGLE CODING

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

TYROLIA offers self-adhesive color stickers (Art. 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. 41)!

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. 41



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.

PRE-SEASON INSPECTION

Pre-season inspections are performed on components of the release system: bindings and boots. All rental bindings, new and used, are visually inspected, and then tested using specially selected Reference Boots. Bindings that fail go through a troubleshooting procedure (see page 71/72) to identify and correct the deviation or malfunction. If this procedure does not correct the problem, the binding is removed from inventory. All rental boots, new and used, are visually inspected for damage, wear, contamination, broken or missing parts, or inferior materials at contact points with the binding. In addition, one boot per "cell" is tested for boots that are new to the rental inventory. A cell is all boots of the same make, model, age, and shell size. A random selection of 5% of all boots, previously accepted into inventory, is also tested. Tests are performed with a test device and a pair of specially selected reference bindings. If a boot fails, all boots from that cell are then tested. Boots that fail and cannot be repaired are removed from inventory.

IN-SEASON INSPECTION

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

INSPECTION PROCEDURES

IMPORTANT TERMS CORRECTION FACTOR

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

DIRECTIONS OF RELEASE

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

TEST DEVICE

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

TEST RESULT OR RELEASE TORQUE

The middle quantitative value of three tests made in the same direction.

PRE-SEASON TEST

REFERENCE BOOT SELECTION

The Reference Boot is a boot of a designated sole length which is otherwise typical of the boot inventory. Use the procedure below if the boot inventory includes several models and a representative boot 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 Junior.
2. Clean all five boots with a mild detergent and water.
3. Adjust a rental binding to the release indicator setting specified in Table [A] for the binding type.
4. Fit the binding to the boot and determine the Release Torque in all three directions of release (forward lean and both directions in twist-three releases in each direction).
5. Average the Release Torque for CW (clockwise) and CCW (counter clockwise) twist release.
6. Reject and replace any boot with a CW to CCW difference of more than 6 Nm for adult boots or 4 Nm when testing child boot types.
7. Rank the five twist results and select, as the Reference Boot for twist, the middle boot.
8. Rank the five forward lean results and select, as the Reference Boot for forward lean, the middle boot.

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 maintenance and which units have outlived their usefulness and must be removed from inventory.

1. Clean areas of the bindings that contact the boot and perform all preseason binding maintenance.
2. Visually or manually check:
 - a.) AFD condition.
 - b.) Brakes function.
 - c.) Release indicator readability and travel
 - d.) Screw tightness.
3. Adjust each binding with the reference boot, then adjust the release value indicators to the specified value found in table [A]. Due to the fixed length of BYS bindings there are adapted tables for all BYS and HRS Junior 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 Range provided in Table [A].
11. Set the ski aside if the Test result in any directions of release is outside the Inspection Range in Table [A].
12. Follow Troubleshooting Procedure on page 71/72 for units which have been set aside and retest if changes in the unit's condition or adjustment are made.
13. Record "FAIL" in the binding's maintenance record if, after troubleshooting, test results in any direction of release are outside the In-Use Range. Replace the "failed" unit

and retest before returning the ski to service.

14. If after troubleshooting, Test Results are outside the Inspection Range but within the In-Use Range, apply a Correction Factor to the unit and note the Correction Factor for that unit in the binding's maintenance record.
15. If many bindings fail, check the test device and 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 ISO 5355. If the boot contacts the binding, brake, or AFD in areas other than the designated contact points, it may be incompatible with the binding.
 - b.) Boot material. If the sole at the contact points with the binding or AFD can be scratched with a finger nail, the boot may be of inferior quality and incompatible with the binding.
 - c.) Boot sole condition. If the boot sole is damaged, worn, or contaminated at contact points with the binding or AFD in a manner which cannot be corrected, the boot may be incompatible with the binding, "Verify boot sole dimensions" on page 66.
 - 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 before the season starts, the sample chosen must be representative of the inventory.

1. For boots that are new to inventory or have never been inspected, take a single boot from each cell (a cell is all boots of the same make, model, year, and shell size).
2. For used boots, take a 5% (but not less than 16 or more than 80) random sample of the entire inventory, see Table [E]. 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 interchange ability.

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/Re-

tention 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 Range 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. Repeat the Visual check on all boots that have been set aside, correct any defects noted, and retest. Remove from inventory boots that fail the retest.
10. Check all other boots from the same cell (make, model, year, and shell size) as those that failed.

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

INSEASON SAMPLING AND INSPECTION

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

SAMPLE FREQUENCY

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

1. After 7 days of operation.
2. If the sample passes the next sampling is taken after another 7 days operation.
3. If two consecutive samples pass, sampling frequency is increased to 14 days (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.

INSEASON INSPECTION

1. Take a random sample of the rental inventory as determined 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 Range for the appropriate Skier Code, see ISO 11088 Release/ Retention Adjustment Chart.
6. If the results are within the Inspection Range, one value above to one value below the reference value, the unit passes.
7. If the results are outside Inspection Range but within the In-Use Range, two values above to two values below the reference value, count the unit as a Class I Deviation.
8. If the results are outside the In-Use Range, count the unit as a Class II Deviation.
9. Check elastic travel and visually inspect the ski brake function, interface areas between boot and binding, including AFD, lug height adjustment (if appropriate), and forward pressure. Count any deficiencies as Class I Deviations.
10. If more than the maximum number of Class I Deviations given in Table [D] are found in the sample, or a single Class II Deviation is detected the sample fails and daily sampling must be conducted until the problem which led to the failed sample is found and corrected. See pages 71/72 for Troubleshooting Procedures following a Failed In season Inspection.
11. Record the date the sample was tested, the number of units tested the number of Class I and Class II Deviations, whether the sample passed or failed and any actions taken. There is 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, 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 Inspector Range [Nm]	Forward Inspector Range [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 Inspector Range [Nm]	Forward Inspector Range [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 Inspector Range [Nm]	Forward Inspector Range [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 AC - 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 (TYROLIA ABS or Teflon®).

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 than 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, 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, 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, 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 Value - the value displayed on the binding's release adjustment scale.

Initial Indicator Value - 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 Value - 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 unacceptable 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.

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 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.

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 mechanism 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.

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HEAD WAY

ARTICLE NUMBER

312375 Balance Track, Length 100

312385 Glide Track, Length 125

312395 Steer Track, Length 150

FEATURES

ERA 2.0, Early rise

Composite Radius Construction

SnakeSkin Surface, Woodcore Torsion Box

Cap Construction, Black UHM C Base

DETAILS

DIMENSIONS 128/85/106

119/81/97

128/76/111

BINDINGS SP10 ABS

HEAD RENTAL SKIS



INSTINCT 83 R

ARTICLE NUMBER

312407 AB

FEATURES

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

DETAILS

LENGTHS	149/156/163/170/177
DIMENSIONS	124/82/109 @ length 170
RADIUS	16,5 @ length 170
BINDINGS	114160 PR 11 MBS Brake 85 [G] 114164 PR 11 Brake 85 [G]



INSTINCT 78 R

ARTICLE NUMBER

312557 AB

FEATURES

Allride Rocker, Era 3.0, Structured Surface
Graphene™ Wood Core Cap Construction
Black UHM C Base

DETAILS

LENGTHS	142/149/156/163/170/177
DIMENSIONS	131/78/113 @ length 170
RADIUS	13,2 @ length 170
BINDINGS	114160 PR 11 MBS Brake 85 [G] 114164 PR 11 Brake 85 [G]



SHAPE SX R

ARTICLE NUMBER

312417 AB

FEATURES

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

DETAILS

LENGTHS	149/156/163/170/177
DIMENSIONS	125/72/109 @ length 170
RADIUS	12,9 @ length 170
BINDINGS	114160 PR 11 MBS Brake 85 [G] 114164 PR 11 Brake 85 [G]



SHAPE CX R

ARTICLE NUMBER

312617 Track
312707 AB

FEATURES

Allride Rocker, ERA 3.0, Structured Surface
Power Sidewall Jacket, Black UHM C Base

DETAILS

LENGTHS	149/156/163/170/177
DIMENSIONS	127/78/110 @ length 170
RADIUS	13,6 @ length 170
BINDINGS	111567 SP 10 ABS PM 114160 PR 11 MBS Brake 85 [G] 114164 PR 11 Brake 85 [G]



SHAPE RX R

ARTICLE NUMBER

312517 Flat
312527 Track
312537 AB
312547 SLR 2

FEATURES

ERA 2.0, Early rise, Composite Radius
Construction, SnakeSkin Surface
Synthetic core construction
Black UHM C Base

DETAILS

LENGTHS	142/149/156/163/170/177
DIMENSIONS	123/70/106 @ length 170
RADIUS	12,8 @ length 170
BINDINGS	111872 SP 10 ABS Brake 85 [D] 111567 SP 10 ABS PM 114164 PR 11 Brake 85 [G] 114061 SLR 9.0 AC Brake 78 [H] 114160 PR 11 MBS Brake 85 [G]



THE LINK PRO R

ARTICLE NUMBER

312567 Track
312587 black
312597 yellow

FEATURES

ERA 2.0, Early rise, Composite Radius
Construction, SnakeSkin Surface, Woodcore,
Torsion Box, Cap Construction,
Black UHM C Base

DETAILS

LENGTHS	130 (XS)/140 (S)/150 (M)/ 160 (L)/170 (XL)
DIMENSIONS	125/69/106 @ length 150
RADIUS	10,0 @ length 150
BINDINGS	111567 SP 10 ABS PM 111877 BYS 10 Brake 85 [D]

COLOR CODE



THE LINK R

ARTICLE NUMBER

312437 Track
312447 black
312457 yellow

FEATURES

ERA 2.0, Early rise, Composite Radius
Construction, SnakeSkin Surface, Synthetic
core construction, Black UHM C Base

DETAILS

LENGTHS	140(S)/150(M)/160(L)/ 170(XL)/177(XXL)
DIMENSIONS	123/70/106 @ length 170
RADIUS	12,8 @ length 170
BINDINGS	111567 SP 10 ABS PM 111877 BYS 10 Brake 85 [D]

COLOR CODE





RESIDUE R TRACK

ARTICLE NUMBER

314107 Track

FEATURES

Heavy duty twin tip model, mesh top sheet, heavy duty woodcore, UHM C base, Pre-mounted rental track

DETAILS

LENGTHS	109/118/127/136/145/ 154/163/172/181
DIMENSIONS	112/79/106 @ length 172
RADIUS	19,1 @ length 172
BINDINGS	111567 SP 10 ABS PM



ABSOLUT JOY R SLR 2

ARTICLE NUMBER

312487

FEATURES

LIBRA Graphene-Super Light Weight Distribution, Women's Camber, ERA 3.0, Power Sidewall Jacket, Superlite Composite Core, Structured Surface, Allride Rocker, Tip Protector, Black UHM C Base

DETAILS

LENGTHS	143/148/153/158/163/168
DIMENSIONS	129/79/109 @ length 163
RADIUS	13,5 @ length 163
PLATE	SLR II Base
BINDINGS	114168 SLR 9.0 AC Brake 85 [H]



LIGHT JOY R SLR 2

ARTICLE NUMBER

312467

FEATURES

LIBRA Graphene-Super Light Weight Distribution, Women's Camber, ERA 3.0, Power Sidewall Jacket, Structured Surface, Allride Rocker, Tip Protector, Black UHM C Base

DETAILS

LENGTHS	143/148/153/158/163
DIMENSIONS	127/73/107 @ length 158
RADIUS	10,9 @ length 158
PLATE	SLR II Base
BINDINGS	114168 SLR 9.0 AC Brake 85 [H]



SUPERSHAPE TEAM R & HRS

ARTICLE NUMBER

312727 HRS (red triangle), Length 67/77/87
 312737 HRS (blue square), Length 77/87/97
 312747 HRS (black diamond), Length 87/97/107
 312757 HRS (white circle), Length 107/117
 312607 Track 4.5, Length 87/97/ 107/117
 312627 Track 7.5, Length 117/127/ 137
 312637 R SLR 2, 312647 R
 Length 67/77/87/97/107/117/127/
 137/147/157

FEATURES

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

DETAILS

DIMENSIONS

103/65/89 @ length 87 (Track 4.5)
 111/67/96 @ length 127 (Track 7.5)
 103/65/89 @ length 87 (SLR II)

RADIUS	4,0 @ length 87 (Track 4.5)
	8,0 @ length 127 (Track 7.5)
	4,0 @ length 87 (SLR II)

BINDINGS	111577 B ² YS 4.5 AC Brake 74 [K]
	111670 SP 7.5 AC PM
	111572 SP 4.5 AC PM
	114071 SLR 7.5 AC Brake 78 [H]
	114073 SLR 4.5 AC Brake 74 [I]



RAZZLEDAZZLE

ARTICLE NUMBER

312997

FEATURES

SnakeSkin Top Sheet, Full FiberJacket,
 E base black, Pre-mounted SP 10 Binding

DETAILS

LENGTHS	94
DIMENSIONS	129/90/118 @ length 94
RADIUS	4,2 @ length 94
BINDINGS	111873 SP 10 ABS Brake 110 [D]

SKI DIMENSIONS

	MODELS	Length [cm]	Shovel [mm]	Waist [mm]	Tail [mm]	Radius [m]
Instinct						
	Instinct 83 R	184	126	83	111	19,5
		177	125	83	110	18,0
		170	124	82	109	16,5
		163	123	81	108	15,1
		156	122	81	107	13,9
	Instinct 78 R	177	132	79	114	14,3
		170	131	78	113	13,2
		163	130	77	112	12,1
		156	129	77	111	11,0
		149	128	76	111	10,0
		142	127	76	110	9,0
Shape						
	Shape SX R	177	126	73	110	14,0
		170	125	72	109	12,9
		163	124	71	108	11,8
		156	123	71	107	10,8
		149	122	70	107	9,8
	Shape CX R	177	128	79	111	14,7
		170	127	78	110	13,6
		163	126	77	109	12,3
		156	125	77	108	11,1
		149	124	76	108	9,9
	Shape RX R	177	126	76	110	14,5
		170	123	70	106	12,8
		163	122	70	105	11,5
		156	121	69	105	10,5
		149	120	69	104	9,5
		142	120	68	103	8,5
WOMAN						
	ABSOLUT JOY R	168	130	79	110	14,4
		163	129	79	109	13,5
		158	128	79	108	12,7
		153	128	78	108	11,8
		148	127	78	107	11,0
		143	126	77	107	10,2
	LIGHT JOY R	163	128	73	108	11,6
		158	127	73	107	10,9
		153	127	72	107	10,1
		148	126	72	106	9,4
		143	125	72	106	8,7

SKI DIMENSIONS

	MODELS	Length [cm]	Shovel [mm]	Waist [mm]	Tail [mm]	Radius [m]
Park&Pipe						
	RESIDURE R TRACK	181	113	80	107	21,1
		172	112	79	106	19,1
		163	111	79	105	17,1
		154	110	78	104	15,2
		145	109	77	103	13,4
		136	108	76	102	11,7
		127	107	76	101	10,1
		118	106	75	100	8,6
		109	105	74	100	7,1
RENTAL SYSTEM Adults						
	THE LINK PRO R	170 XL	128	71	108	13,1
		160 L	126	70	107	11,5
		150 M	125	69	106	10,0
		140 S	124	69	105	8,5
		130 XS	123	68	104	7,1
	THE LINK	180 XXL	124	70	107	13,8
		170 XL	123	70	106	12,8
		160 L	122	70	105	11,5
		150 M	120	69	104	9,5
		140 S	120	68	103	8,5
RENTAL Juniors						
	SUPERSHAPE TEAM R & HRS	157	119	69	103	11,4
		147	116	69	100	10,4
		137	113	68	98	9,0
		127	111	67	96	8,0
		117	108	67	94	6,9
		107	106	66	92	5,7
		97	104	65	89	5,3
		87	103	65	89	4,0
		77	102	65	89	2,9
		67	102	64	88	2,0
HEAD WAY						
	HEADWAY Balance	100	126	85	106	5,4
	HEADWAY Glide	125	119	81	97	11,5
	HEADWAY Steer	150	128	76	111	10,0
RAZZLE DAZZLE						
	RAZZLE DAZZLE	94	129	90	118	4,2

HEAD SKI SIZING CHART

WEIGHT	HEIGHT	SKI LENGTH	COLOR CODE
		All - Mountain Skicross Junior	for adult ski
10-13 kg (22-29 lbs)		≤ 70 cm	
14-17 kg (30-38 lbs)		70 - 80 cm	
18-21 kg (39-47 lbs)		80 - 90 cm	
22-25 kg (48-56 lbs)		90 - 100 cm	
26-30 kg (57-66 lbs)		100 - 110 cm	
31-35 kg (67-78 lbs)		110 cm 120 cm	*
36-41 kg (79-91 lbs)		120 cm 130 cm	*
42-48 kg (92-107 lbs)	≤ 148 cm (≤ 4'10")	130cm 140cm	*
49-57 kg (108-125 lbs)	149-157 cm (4'11"-5'1")	140 cm 150 cm	
58-66 kg (126-147 lbs)	158-166 cm (5'2"-5'5")	150 cm 160 cm	
67-78 kg (148-174 lbs)	167-178 cm (5'6"-5'10")	160 cm 170 cm	
79-94 kg (175-209 lbs)	179-194 cm (5'11"-6'4")	170 cm 180 cm	
≥ 95 kg (≥ 210 lbs)	≥ 195 cm (≥ 6'5")	≥ 180 cm	

Locate the skier's height and weight in the columns.

When height and weight are on the same line.

Aggressive or fast skiers should select a length at the higher end of the given range.
Slow to moderate skiers should select a length at the lower end of the given range.

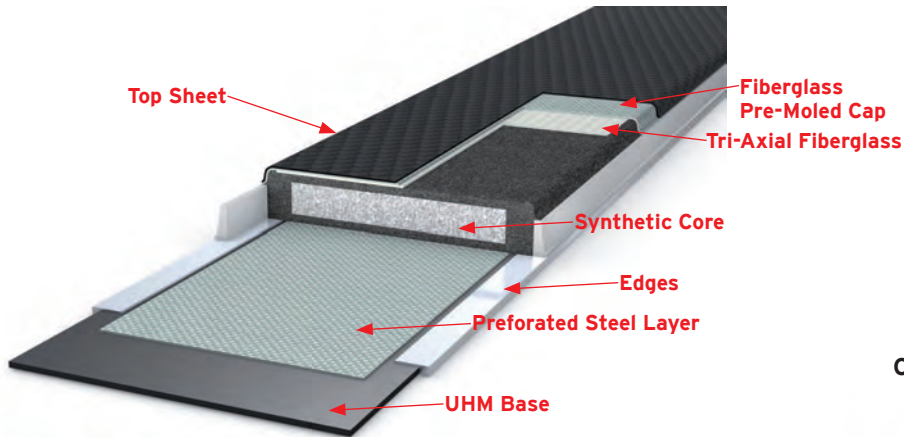
When height and weight are not on the same line.

Aggressive or fast skiers should select a length from the range closer to the bottom of the chart.
Slow to moderate skiers should select a length from the range closer to the top of the chart.

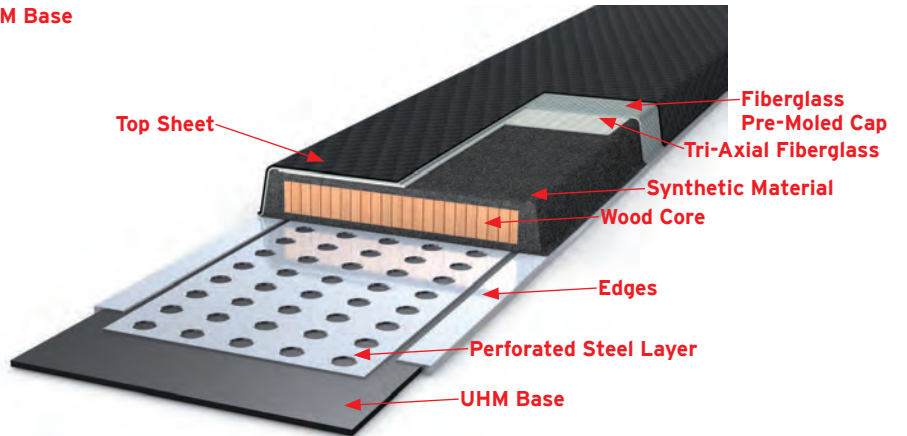
*** Teaching tools for adult beginners**

HEAD RENTAL SKI - CONSTRUCTIONS

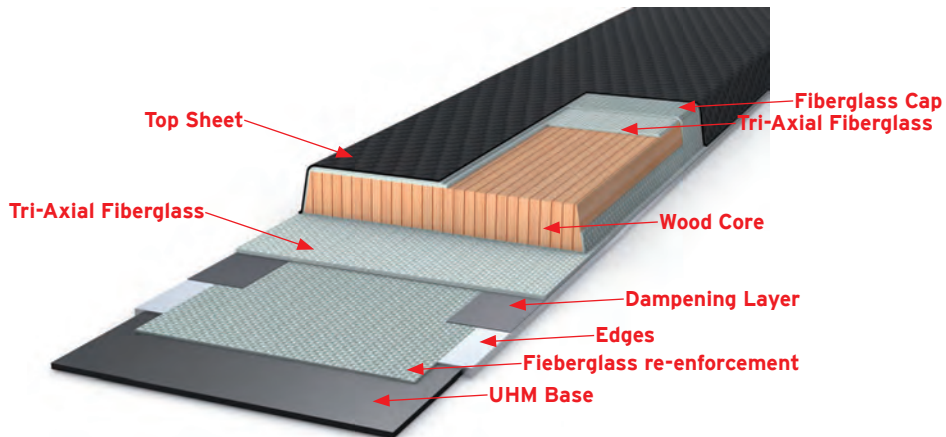
SYNTETHIC CORE CAP CONSTRUCTION



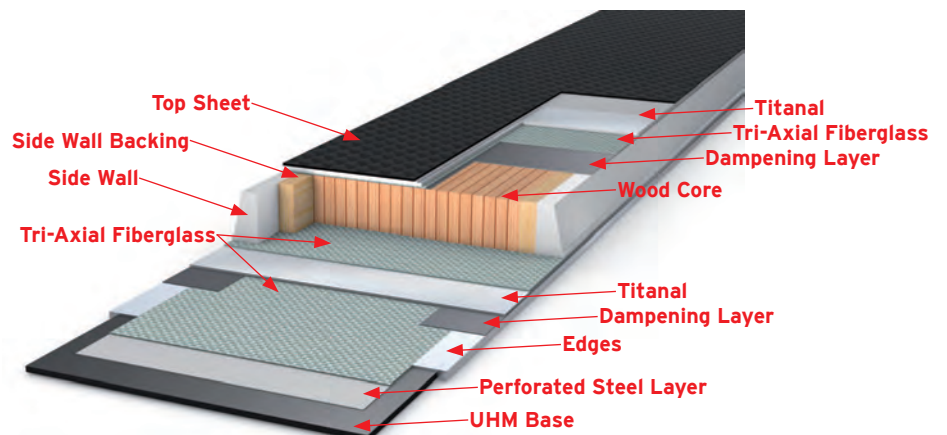
COMPOSITE CORE CAP CONSTRUCTION



WOOD CORE CAP CONSTRUCTION



WORLD CUP SANDWICH CONSTRUCTION



TUNING

Which edge angles does Head use in its production?

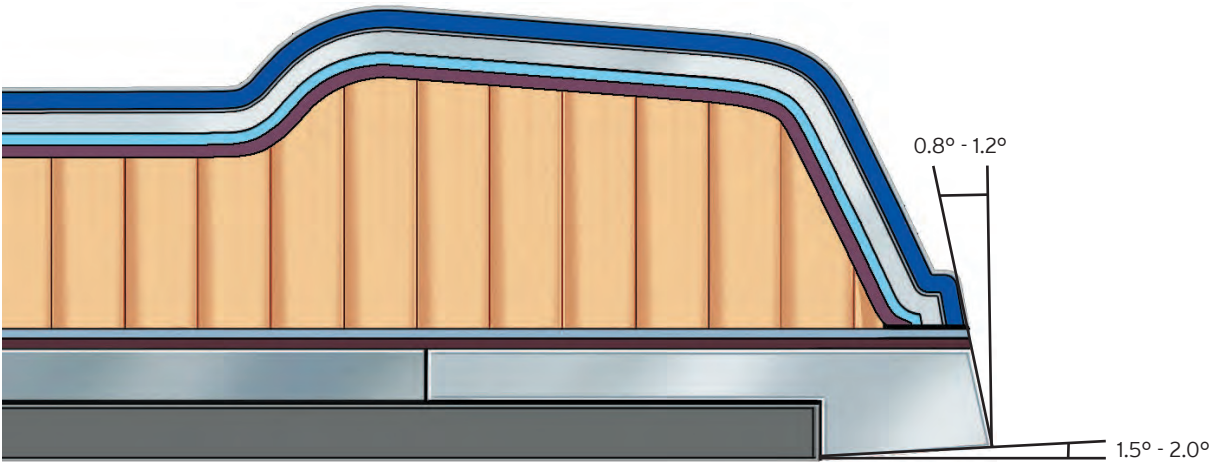
Especially on shaped skis, where most of the steering is done by the edges, smooth and sharp edges are essential. Only a well-tuned pair of skis with flat and well waxed bases will glide and turn easy. Maintaining the skis will assure that your customer will enjoy his time on the slopes. The most proven angular measurement is a production standard: On the base side the edges are beveled by 1.5° to 2.0°, laterally they are relief-ground at approximately 0.8° to 1.2°.

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 0.8° to 1.2° 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

NOTES:



HEAD RENTAL SKI BOOTS

RENTAL MAIN FEATURES

- + **BAR CODE STICKERS** AVAILABLE ON ALL MODELS
- + **BAR CODE HOLDER** ON ALL MODELS FEATURING VELCRO STRAP
- + **27.5 M 313 mm** **NEW TAMPO PRINTED SINGLE CODE** WITH MM INDICATION AVAILABLE ON ALL MODELS
- + **HIGH RESISTANCE PU HEEL AND TOE**
- + **PU SHELL ON ALL MODELS** (INCLUDING "Z1, Z2, Z3" JUNIOR BOOTS)
- + **SANITIZED® CHARCOAL FOOTBED**
- + **REINFORCED BUCKLES** FOR ADDED DURABILITY
- + **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



HEAD RENTAL SKI BOOTS COLLECTION 2017.18



VECTOR EVO 100 HT

ARTICLE NUMBER

606600

FEATURES

Bi-Inj dynamic frame, Easy entry shell design, Stiffer/softer flex adjust., Single canting
Rear support tuning, Evo Balance

LINER

EVO Perfect Fit S liner
Sanitized® charcoal footbed
HP frame footbed
40 mm velcro strap

BUCKLES

4 micro-adjustable alloy buckles
1 Supermacro ratchet

DETAILS

LEVEL	Expert		
FLEX INDEX	100/90		
SIZES	250-265-... -305-310-320		
SHELL	PU		
LAST	S 1850cc		
Last	98	100	102
Size	25.5	26.5	27.5
COLOR	Trsp. Anth./ Black-Green		



VECTOR EVO 90 HT W

ARTICLE NUMBER

606601

FEATURES

Bi-Inj dynamic frame, Easy entry shell design, Stiffer/softer flex adjust., Single canting
Rear support tuning, Evo Balance

LINER

Women's Evo Perfect Fit S liner
Sanitized® charcoal footbed
HP frame footbed
40 mm velcro strap

BUCKLES

4 micro-adjustable alloy buckles
1 Supermacro ratchet

DETAILS

LEVEL	Expert		
FLEX INDEX	90/80		
SIZES	230-235-...-275		
SHELL	PU		
LAST	S 1850cc		
Last	96	98	100
Size	24.5	25.5	26.5
COLOR	Trsp. Gray-Yellow		



ADVANT EDGE 95 HT

ARTICLE NUMBER

606603

FEATURES

Bi-Inj. control frame, Hi-Top Tech Duo Flex, Easy entry shell design
Stiffer/softer flex adjust., Single canting, Adjustable rear spoiler
All Ride Balance

LINER

Comfort liner
Sanitized® charcoal footbed
40mm velcro strap

BUCKLES

4 micro-adjustable alloy buckles
2 Double Power levers
1 Supermacro ratchet

DETAILS

LEVEL	Advanced		
FLEX INDEX	95/85		
SIZES	250-255-... 260-265-...-305		
SHELL	PU		
LAST	C 2100cc		
Last	100	102	104
Size	25.5	26.5	27.5
COLOR	Trsp. Red/ Black		



ADVANT EDGE 85 HT

ARTICLE NUMBER

607311

FEATURES

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

LINER

Comfort liner
Sanitized® charcoal footbed
40 mm velcro strap

BUCKLES

4 micro-adjustable alloy buckles
1 Supermacro ratchet

DETAILS

LEVEL Intermediate

FLEX INDEX 85

SIZES 250-255-...-305-310-320-330-340

SHELL PU/SL

LAST C 2100cc

Last	100	102	104
Size	25.5	26.5	27.5

COLOR Yellow/Black



ADVANT EDGE 85 HT W

ARTICLE NUMBER

607305

FEATURES

Bi-Inj. control frame, Hi-Top Tech, Duo Flex, Easy entry shell design, Single canting, Double adjustable cuff, All Ride Balance

LINER

Women's comfort liner
Women auto adaptive tech.
Sanitized® charcoal footbed
40mm velcro strap

BUCKLES

4 micro-adjustable alloy buckles
2 Double Power levers
1 Supermacro ratchet

DETAILS

LEVEL Advanced

FLEX INDEX 85 / 75

SIZES 220-225-230-235-...-275

SHELL PU

LAST C 2100cc

Last	98	100	102
Size	24.5	25.5	26.5

COLOR Anthracite/Black



ADVANT EDGE 75 HT W

ARTICLE NUMBER

607316

FEATURES

Bi-Inj. control frame, Hi-Top Tech, Duo Flex, Easy entry shell design
Single canting, Double adjustable cuff, All Ride Balance

LINER

Women's comfort liner
Women auto adaptive tech.
Sanitized® charcoal footbed
40mm velcro strap

BUCKLES

4 micro-adjustable alloy buckles
1 Supermacro ratchet

DETAILS

LEVEL	Intermediate		
FLEX INDEX	75		
SIZES	220-225- 230-235-...-275		
SHELL	PU/SL		
LAST	C 2100cc		
Last	98	100	102
Size	24.5	25.5	26.5
COLOR	Gray- yellow		



NEXT EDGE 85 HT

ARTICLE NUMBER

607312

FEATURES

Tri-Inj. energy frame, Easy entry shell design, Double adjustable profile, Stiffer/softer flex adjust
Double canting
All Ride Balance

LINER

Comfort liner
Fleece lining, Sanitized® charcoal footbed, 40 mm velcro strap

BUCKLES

4 micro-adjustable alloy buckles
1 Supermacro ratchet

DETAILS

LEVEL	Intermediate		
FLEX INDEX	85		
SIZES	250-255- 260-265-...-305		
SHELL	PU/SL		
LAST	C 2100cc		
Last	100	102	104
Size	25.5	26.5	27.5
COLOR	Anthracite/Black-yellow		



NEXT EDGE 75 HT

ARTICLE NUMBER

606621

FEATURES

Tri-Inj. energy frame, Easy entry shell design, Double canting

LINER

Comfort liner
Sanitized® charcoal footbed
40 mm velcro strap

BUCKLES

4 plastic buckles
1 Supermacro ratchet

DETAILS

LEVEL	Intermediate		
FLEX INDEX	75		
SIZES	250-255- 260-265-...-305		
SHELL	PU/SL		
LAST	C 2100cc		
Last	100	102	104
Size	25.5	26.5	27.5
COLOR	Anthracite		



NEXT EDGE 75 HT W

ARTICLE NUMBER

607318

FEATURES

Tri-Inj. energy frame, Easy entry shell design, Double adjustable profile, Double canting
All Ride Balance

LINER

Women's comfort liner
Fleece lining
Sanitized® charcoal footbed
30 mm velcro strap

BUCKLES

4 micro-adjustable alloy buckles
1 Supermacro ratchet

DETAILS

LEVEL	Intermediate		
FLEX INDEX	75		
SIZES	220-225- 230-235-...-275		
SHELL	PU/SL		
LAST	C 2100cc		
Last	98	100	102
Size	24.5	25.5	26.5
COLOR	Anthracite/Black		



NEXT EDGE 65 HT W

ARTICLE NUMBER

606622

FEATURES

Tri-Inj. energy frame, Easy entry shell design, Double canting

LINER

Women's comfort liner
Fleece lining, Sanitized® charcoal footbed, 30 mm velcro strap

BUCKLES

4 plastic buckles
1 Supermacro ratchet

DETAILS

LEVEL	Intermediate		
FLEX INDEX	65		
SIZES	230-235-...-275		
SHELL	PU/SL		
LAST	C 2100cc		
Last	98	100	102
Size	24.5	25.5	26.5
COLOR	Black		



FX 65 HT

ARTICLE NUMBER

606625

FEATURES

Power control frame

LINER

Comfort liner
Sanitized® charcoal footbed

DETAILS

LEVEL	Intermediate		
FLEX INDEX	65		
SIZES	260-265-...-305		
SHELL	PU/SL		
LAST	EC 2200cc		
Last	102	104	106
Size	25.5	26.5	27.5
COLOR	Black		

BUCKLES

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



FX 55 HT W

ARTICLE NUMBER

606626

FEATURES

Power control frame

LINER

Women Comfort liner

Sanitized® charcoal footbed

BUCKLES

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

DETAILS

LEVEL Intermediate

FLEX INDEX 55

SIZES 230-235-...-275

SHELL PU/SL

LAST EC 2200cc

Last	100	102	104
Size	26.5	26.5	27.5

COLOR White



CUBE 3 80 HT

ARTICLE NUMBER

606627

FEATURES

Power control frame

Integrated AutoSkiWalk

LINER

Comfort quick entry liner

Sanitized® charcoal footbed

35mm velcro strap

BUCKLES

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

DETAILS

LEVEL Intermediate

FLEX INDEX 80

SIZES 260-265-...-305

SHELL PU/SL

LAST EC 2200cc

Last	102	104	106
Size	25.5	26.5	27.5

COLOR Black / Anth.



CUBE 3 70 HT W

ARTICLE NUMBER

606628

FEATURES

Power control frame

Integrated AutoSkiWalk

LINER

Comfort quick entry liner

Sanitized® charcoal footbed

35mm velcro strap

BUCKLES

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

DETAILS

LEVEL Intermediate

FLEX INDEX 70

SIZES 230-235-...-265

SHELL PU/SL

LAST EC 2200cc

Last	100	102	104
Size	25.5	26.5	27.5

COLOR Gray



NEXT EDGE B.Y.S. 80 HT

ARTICLE NUMBER

605719

FEATURES

Tri-Inj. energy frame, Easy entry shell design, Double canting 2 sole length

LINER

Comfort liner, Sanitized® charcoal footbed, 40 mm velcro strap

BUCKLES

4 micro-adjustable plastic buckles
1 Supermacro ratchet

DETAILS

LEVEL Intermediate

FLEX INDEX 80

SIZES 235-245

(Black Woman constr.)

250-255-...-265

(Black Man Constr.)

270-275-...-305

(Yellow Man Constr.)

SHELL PU/SL

LAST C 2100cc

Last	100	102	104
Size	25.5	26.5	27.5

COLOR Black/White



EZON 2 BYS HP

ARTICLE NUMBER

605740 (women)

FEATURES

1 sole lengths, DIN interface for all rental bindings

LINER

Comfort liner, Sanitized® charcoal footbed, Prepared for heating System, 35 mm velcro strap

BUCKLES

4 plastic buckles

1 Supermacro ratchet

DETAILS

LEVEL Intermediate

SIZES 310-320-330-340

Man Constr.

SHELL PU/SL

COLOR Black / White



B.Y.S.

ARTICLE NUMBER

605745

FEATURES

3 sole Lengths, DIN interface for all rental bindings

LINER

Comfort liner, Sanitized® charcoal footbed, Prepared for heating System

BUCKLES

3 plastic buckles

1 Supermacro ratchet

DETAILS

LEVEL Beginner

FLEX INDEX 70

SIZES

235-245-...-265 (Black)

275-285-...-305 (Yellow)

315-310-...-340 (Silver)

SHELL PU/SL

COLOR Anthracite



RAPTOR 50 HT

ARTICLE NUMBER

607335

FEATURES

Jr racing flex tuning
Adult norm (size 220 up)

LINER

Junior Team liner
Self-shaping footbed

BUCKLES

4 plastic buckles

DETAILS

LEVEL	Advanced
FLEX INDEX	50
SIZES	200-210-220-... -265
SHELL	PU/SL
COLOR	Yellow/White



RAPTOR 40 HT

ARTICLE NUMBER

607337

FEATURES

Jr racing flex tuning
Adult norm

LINER

Junior Team liner
Self-shaping footbed

BUCKLES

3 plastic buckles

DETAILS

LEVEL	Advanced
SIZES	185-190-...-245
SHELL	PU/SL
COLOR	Yellow/White



Z3 HRS

ARTICLE NUMBER

607340

BUCKLES

3 plastic buckles

FEATURES

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

DETAILS

LEVEL	Intermediate
SIZES	235-245 255-265
SHELL	PU/SL
COLOR	Anthracite/White

LINER

Junior rental liner
Comfort footbed



Z2 HRS

ARTICLE NUMBER

607342

BUCKLES

2 plastic buckles

FEATURES

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

DETAILS

LEVEL	Beginner
SIZES	195-205 215-225
SHELL	PU/SL
COLOR	Anthracite/White

LINER

Junior rental liner
Comfort footbed



Z1 HRS

ARTICLE NUMBER

607344

BUCKLES

1 plastic buckle

FEATURES

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

DETAILS

LEVEL	Beginner
SIZES	155-165 175-185
SHELL	PU/SL
COLOR	Anthracite/White

LINER

Junior rental liner
Comfort footbed

HEAD BOOTS SINGLE CODE 2017.18

MODEL SIZE	RR8	CUBE HT/W FX HT/W	AD- VANT EDGE HT/W VEC- TOR EVO HT/W	ADAPT EDGE HT/W NEXT EDGE HT/W	EDGE 3J HT	EZON 2 B.Y.S. B.Y.S EDGE B.Y.S	RAP- TOR 40 HT	RAP- TOR 50 HT	Z HRS
150									c
155									c
160									c
165									c
170									h
175									h
180							i		h
185							i		h
190							l		m
195							l		m
200							n	m	m
205							n	m	m
210							q	p	r
215							q	p	r
220			C	D			B	A	r
225			C	D			B	A	r
230	B	E	C	D	E	G	E	D	F
235	B	E	C	D	E	G	E	D	F
240	D	H	F	G	E	G	G	F	F
245	D	H	F	G	E	G	G	F	F
250	F	J	H	I	H	G	J	I	I
255	F	J	H	I	H	G	J	I	I
260	I	M	K	L	J	G	L	K	K
265	I	M	K	L	J	G	L	K	K
270	L	O	M	N		Q	O	N	
275	L	O	M	N		Q	O	N	
280	N	R	P	Q		Q			
285	N	R	P	Q		Q			
290	P	T	R	S		Q			
295	P	T	R	S		Q			
300	S	W	U	V		Q			
305	S	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

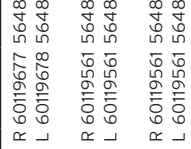
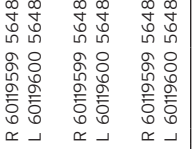
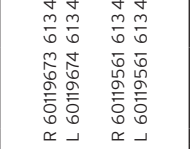
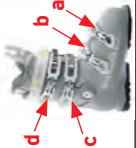
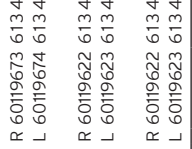
Replacement of heels is especially important for rental shops.

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.

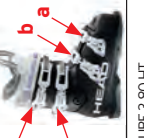
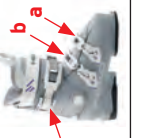
CARE: Observe the following rules to avoid damage or excess wear of material and mechanisms.

- 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
VECTOR EVO 100 HT A.No. 606600	 a R 60119616 5648 L 60119617 5648	 R 60119618 5648 L 60119619 5648 c R 60119620 5648 L 60119621 5648 d R 60119620 5648 L 60119621 5648	 60118736 0014	kit velcro adjustment 60118730 5394 velcro 60119085 583966 from 250 up to 265 velcro 60119085 583969 from 270 up to 285 velcro 60119085 583972 from 290 to 305	60117562	60113120	60112657
VECTOR EVO 90 HT W A.No. 606601	 a R 60119553 6134 L 60119554 6134	 R 60119555 6134 L 60119556 6134 c R 60119622 6134 L 60119623 6134 d R 60119622 6134 L 60119623 6134	60118736 0014	velcro 60119969 625662 from 220 up to 245 velcro 60119969 625666 from 250 up to 265 velcro 60119969 625669 from 270 to 275	60113118	60113120	60112657
ADVANT EDGE 95 HT A.No. 606603	 a R 60119557 5648 L 60119558 5648	 R 60119677 5648 L 60119678 5648 c R 60119561 5648 L 60119561 5648 d R 60119561 5648 L 60119561 5648	60118736 0014	velcro 60119185 613064 from 250 to 265 velcro 60119185 613066 from 270 to 285 velcro 60119185 6130 from 290 to 305	60117562 40 mm from size 270 to 320	60113120	60112657
ADVANT EDGE 85 HT A.No. 607311 / 607310	 a R 60119597 5648 L 60119598 5648	 R 60119599 5648 L 60119600 5648 c R 60119599 5648 L 60119600 5648 d R 60119599 5648 L 60119600 5648	60118736 0014	velcro 60119185 613064 from 250 to 265 velcro 60119185 613066 from 270 to 285 velcro 60119185 6130 from 290 to 305	60117562	60113120	60112657
ADVANT EDGE 85 HT W A.No. 607305	 a R 60119553 6134 L 60119554 6134	 R 60119673 6134 L 60119674 6134 c R 60119561 6134 L 60119561 6134	60118736 0014	velcro 60119186 563165 from 220 to 245 velcro 60119186 563169 from 250 to 275	60113118 30 mm from size 230 to 265	60113120	60112657
ADVANT EDGE 75 HT W A.No. 607316	 a R 60119553 6134 L 60119554 6134	 R 60119673 6134 L 60119674 6134 c R 60119622 6134 L 60119623 6134 d R 60119622 6134 L 60119623 6134	60118736 0014	velcro 60119186 563165 from 220 to 245 velcro 60119186 563169 from 250 to 275	60113118k	60113120	60112657

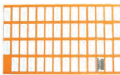
SPARE PARTS - RENTAL BOOTS

MODEL	SHORT BUCKLE	LONG BUCKLE	HEEL SET	VELCRO STRAP	BAR CODE HOLDER	BAR CODE LABEL	EXTENSION BUCKLE
NEXT EDGE 85 HT ANo.60732 	 R 60119557 5648 a L 60119558 5648	 R 60119677 5648 b L 60119678 5648 R 60120249 5648 c L 60120250 5648 R 60120249 5648 d L 60120250 5648	 60116925 0014	velcro 6011985 61364 from 250 up to 265 velcro 6011985 61366 from 270 up to 285 velcro 6011985 61368 from 290 up to 305	 60117562	 60113120	 60112657
NEXT EDGE 75 HT ANo.60662 	 R 60119601 5648 a L 60119602 5648	 R 60119603 5668 b L 60119604 5668 R 60119603 5668 c L 60119604 5668 R 60119603 5668 d L 60119604 5668	 60116925 0014	velcro 6011985 61364 from 250 up to 265 velcro 6011985 61366 from 270 up to 285 velcro 6011985 61369 from 290 up to 305	60117562 40mm	60113120	60112657
NEXT EDGE 75 HT W ANo.60738 	 R 60119553 6134 a L 60119554 6134	 R 60119555 6134 b L 60119556 6134 R 60119622 6134 c L 60119623 6134 R 60119622 6134 d L 60119623 6134	 60116925 0014	velcro 6011986 563165 from 220 up to 245 velcro 6011986 563169 from 250 up to 275	60113118	60113120	60112657
NEXT EDGE 65 HT W ANo.60662 	 R 60119601 6135 a L 60119602 6135	 R 60119603 6135 b L 60119604 6135 R 60119603 6135 c L 60119604 6135 R 60119603 6135 d L 60119604 6135	 60116925 0014	velcro 6011986 613263 from 230 up to 245 velcro 6011986 613266 from 250 up to 275	60113118	60113120	60112657
CUBE 3 80 HT ANo.60667 	 R 60119601 5668 a L 60119602 5668	 R 60119603 5668 b L 60119604 5668 R 60119589 5668 c L 60119590 5668	 60116923 0014	velcro 60118134 457565 from 260 up to 265 velcro 60118134 457568 from 270 up to 305	60117562	60113120	60112626
CUBE 3 70 HT W ANo.60668 	 R 60119601 6135 a L 60119602 6135	 R 60119603 6135 b L 60119604 6135 R 60119589 6135 c L 60119590 6135	 60116923 0014	velcro 60118135 579765 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
FX 65 HT A.No. 606625 	R 60119601 5668 L 60119602 5668 a	R 60119603 5668 L 60119604 5668 b R 60119589 6136 L 60119590 6136 c	60116923 0014			60113120	60117626
FX 55 HT W A.No. 606626 	R 60119601 6135 L 60119602 6135 a	R 60119603 6135 L 60119604 6135 b R 60119589 6137 L 60119590 6137 c	60116923 0014			60113120	60117626
NEXT EDGE BYS 80 HT A.No. 605719 	R 60119114 5668 L 60119115 5668 a	R 60119603 5471 L 60119604 5471 b R 60119603 5471 L 60119604 5471 c R 60119603 5471 L 60119604 5471 d	60116925 0014	velcro 60119186 563165 from 235 up to 245 velcro 60119185 588264 from 250 up to 265 velcro 60119185 588266 from 270 up to 285 velcro 60119185 588268 from 290 up to 305	60113118 30mm 60117562 40mm 250-305	60113120	60112657
EZON2 BYS HP A.No. 605740 	R 60119601 5668 L 60119602 5668 a	R 60119603 5668 L 60119604 5668 c R 60119603 5668 L 60119604 5668 d	60116936 0014	kit velcro adjustment 60011580 0287 velcro 60117834 306473 from 310 up to 340	60117562	60113120	60112657
BYS A.No. 605745 	R 60119601 5668 L 60119602 5668 a from 310 up to 340	R 60119603 5668 L 60119604 5668 b R 60119603 5668 L 60119604 5668 c R 60119603 5668 L 60119604 5668 d	60116936 0014			60113121	60112657

SPARE PARTS - RENTAL BOOTS

MODEL	SHORT BUCKLE	LONG BUCKLE	HEEL SET	VELCRO STRAP	BAR CODE HOLDER	BAR CODE LABEL	EXTENSION BUCKLE
RAPTOR 50 HT A.No. 607335 	R 60118981 1523 L 60118982 1523 a	R 60118983 1523 L 60118984 1523 b R 60118985 1523 L 60118986 1523 c R 60118985 1523 L 60118986 1523 d	60119714 0014 from 200 up to 210 60120181 0014 from 220 up to 265			 60113121	
RAPTOR 40 HT A.No. 607337 	R 60118981 1523 L 60118982 1523 a	R 60118983 1523 L 60118984 1523 b R 60118985 1523 L 60118986 1523 c	60116927 0014 from 185 to 215 60116926 0014 from 220 to 245			60113121	
Z3 HRS A.No. 607340 	R 60118981 1523 L 60118982 1523 a	R 60118985 1523 L 60118986 1523 b R 60118985 1523 L 60118986 1523 c	60120181 0014			60113121	
Z2 HRS A.No. 607342 	R 60118981 1523 L 60118982 1523 a	R 60118985 1523 L 60118986 1523 b	60119714 0014			60113121	
Z1 HRS A.No. 607344 		R 60118985 1523 L 60118986 1523 a	60119714 0014			60113121	

4 COLORS + 4 SIZES

The all-new T-Series comes in four sizes, all featuring their own specific shell mold. This is especially important on smaller sizes, where weight and fit is crucial to assure the protective qualities of a helmet.

T-SERIES

DEVELOPED AND BUILT FOR RENTAL

COLOR CODED

Rental Colour Coding allows shop staff to quickly and easily determine a products size and compatibility.

SD+D COMPATIBLE

SD+D Compatibility means that a product is compatible with HEAD rental helmet storage systems. It allows for safe storage, easy drying and leads to a longer life of products.

RENTAL SIZE ADJUSTER

Rental Size Adjustment is super durable and provides quick and easy adjustability.



HEAD RENTAL HELMETS

SR



JR



SR



JR



TRACER

ARTICLE NUMBER

329107 black (SR)

329117 apple (SR)

329207 white (JR)

329217 blue (JR)

FEATURES

SD+D Compatible, Hardshell Technology

Thermal Ventilation, Rental Goggle Retainer

Speedlock Buckle, Rental Colour Coding

Rental Size Adjustment

SIZES SR

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

SIZES JR

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

TEN

ARTICLE NUMBER

329607 black (SR)

329617 apple (SR)

329907 white (JR)

329917 blue (JR)

FEATURES

Hardshell Technology, Thermal Ventilation,

Rental Goggle Retainer, Speedlock Buckle,

Rental Colour Coding, Rental Size Adjustment

SIZES SR

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

SIZES JR

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

SR



JR



RENTAL SR

ARTICLE NUMBER

329513 black (SR)

329813 white (JR)

FEATURES

Hardshell Technology, Thermal Ventilation,
Rental Goggle Retainer, Speedlock Buckle,
Rental Colour Coding, Rental Size Adjustment

SIZES SR

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

SIZES JR

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

FLEXOR UNIT R / JR UNIT R

ARTICLE NUMBER

395453 Senior

395463 Junior

FEATURES

SAS TEC viscoelastic foam
REMOVABLE protection unit
3D mesh
NYLON fabric POLYGIENE

SIZES

XXS - XL/XXL



SENIOR / BACK



JUNIOR / BACK



SENIOR / BACK



JUNIOR / BACK



SCAN-BARCODE



JUNIOR / FRONT



SENIOR / FRONT



Removable Protection Unit

SPARE PARTS HELMETS

TRACER/ TEN



RENTAL SR/ JR



RENTAL INTERFACE



378982
AIRDOCK

ART. NO	DESCRIPTION	SUITABLE PRODUCTS	PACKAGE
378935	Goggle retainer Rental JR XXS	Helmets	ST
378945	Goggle retainer Rental SR/JR XS/S	Helmets	ST
378955	Goggle retainer Rental SR/JR M/L	Helmets	ST
378965	Goggle retainer Rental SR XL/XXL	Helmets	ST
378968	Chinpad rental helmet	Helmets	SPX
378969	Chinbuckle rental helmet before 2014 (10pcs)	Helmets	SPX
378974	Adj Neckgator Rental SR/JR	Helmets	ST
378995	Chinbuckle rental from 2014 (10pcs)	Helmets	SPX

HELMET STORAGE RACK

HEAD has the solution for efficient storage of helmets: the HELMET STORAGE RACK can be adjusted to the space and quantity requirements of the client and provides both space and easy access for up to 324 helmets on a floor space of 3m².

HELMET STORAGE RACK 150	HELMET STORAGE RACK 200	HELMET STORAGE RACK 240
375502	375512	375522
for 180 helmets	for 252 helmets	for 324 helmets

HELMET drying RACK

In addition to the advantages of the HELMET STORAGE RACK, the HELMET DRYING RACK guarantees rapid and effective drying of the helmets via an integrated drying module. Warm air is directed inside the helmet via the AIRDOCKs and dries the helmets from the inside out, thus reducing drying time to a minimum. The optional ionization tube integrated directly into the air intake also prevents development of odor in the helmets. Both the HELMET STORAGE RACK and the HELMET DRYING RACK are available in widths of 150 cm, 200 cm and 240 cm as free-standing racks on legs. Existing track Systems of the brand MONTANA can be integrated if required.

HELMET DRYING RACK 150	HELMET drying RACK 200	HELMET DRYING RACK 240
375532	375542	375552
for 180 helmets	for 252 helmets	for 324 helmets

HELMET WALLDRYER 100

The helmet WALLDRYER 100 completes the portfolio of the SD + D System; it can hold 60 helmets on only one meter or three feet of wall space. Helmets attached to the System can be automatically dried during storage. Standard household power supply can be used to operate the unit on 220 V or 110 V. This not only makes the smallest version of a full-feature SD + D System an easy step into the System, but it also fulfills the needs of smaller operations. The SD + D HELMET WALLDRYER 100 racks can be used free standing or standing against a wall.



FLIP CLIP RAIL

375442 1 meter
375452 2 meter
Tracks for the simple and individual assembly of the RENTAL INTERFACE. In the 1- or 2-meter version, the FLIP CLIP RAIL offers space for 3 or 6 rental interfaces.



HEAD SANITIZER

375462
With this easy-to-operate stainless-steel appliance you can disinfect rental shoes and helmets quickly and efficiently. Three spray jets ensure even distribution of the disinfectant over the whole shoe or helmet for controlled sterilization thereby preventing development of odors. The included table ensures an ideal working height and practical storage space.



RENTAL INTERFACE

375412
The starting point for the modular HEAD SD+D System. An interface offers space for space-saving and efficient storage of 3 helmets and can be used together with the FLIP CLIP RAIL, HELMET STORAGE & DRYING RACK, and HELMET WALLDRYER.

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.

RENTAL HELMET SIZES AND HEAD CIRCUMFERENCE

TRACER SR	TRACER JR
Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 58.0 cm Size XL/XXL 59.0 - 63.0 cm	Size XXS 48.0 - 51.0 cm Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 58.0 cm

TEN SR	TEN JR
Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 58.0 cm Size XL/XXL 59.0 - 63.0 cm	Size XXS 48.0 - 51.0 cm Size XS/S 52.0 - 55.0 cm Size M/L 56.0 - 58.0 cm

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 - 63.0 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

Rental Beanie

To help prevent lice in your rental helmets and help keep your helmets sanitary Head recommends that you use our rental beanies. (Part # 375108 (adult)) and (Part# 375208 (Jr)) 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 information.

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 documented 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 snowboarding 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 indemnify 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 appro-

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 (2017-2018) 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 2017-2018 only the following models are authorized for rental demo:

TRACER SR	Art. No.: 329107 / 329117
TRACER JR	Art. No.: 329207 / 329217
TEN SR	Art. No.: 329607 / 329617
TEN JR	Art. No.: 329907 / 329917
RENTAL SR	Art. No.: 329513
RENTAL JR	Art. No.: 329813

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	P.O. Box 3620, Station Main Guelph Ontario N1H 7H1 Canada
Phone: 800-874-3235 720-708-6400	Phone: 800-265-7257 519-822-1576
Fax: 720-708-6419	Fax: 519-822-2202
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)	SKIER/RIDER ABILITY	
			M F		
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		

NOTES:

HEAD | *TYROLIA*



RENTAL SNOWBOARD

WOMAN SNOWBOARD RENTAL SYSTEM: LIBRA

HEAD BUILDS WOMEN'S EQUIPMENT FROM SCRATCH,
FOCUSING ON FEATURES PARAMOUNT TO GIRLS:
THESE ARE WEIGHT, BALANCE AND CONTROL ALL OF WHICH
AID PROGRESS AND DELIVER A MORE SUPPORTIVE RIDE.

OUR WOMEN'S SNOWBOARD RENTAL PROGRAM
IS NEXT LEVEL RIDING FOR GIRLS.



LIBRA LFW 4D

The most versatile and durable rental board out there, featuring the all new Liquid Framewall - developed to ride, for women who rent.



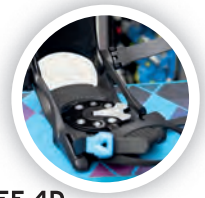
650 4D BOA FOCUS WMN

High performing rental boot for everyday use. Built for women who know their roast-beefs from their melons.



AIR YOUTH

Full action requires full protection.



P THREE 4D

Simple bulletproof rental binding in retail look.

THE 4D SNOWBOARD RENTAL SYSTEM

HEAD BRINGS YOU 4D - PERFECT SETUP, MOST EFFICIENT



We face each of our customers individually, cater too, for their perfect setup when renting equipment. Having a positive experience when riding is the key driver to returning customers, no matter what age, gender, ability level or family situation they are - everyone has their very own specific needs, which the HEAD 4D System and its wide product portfolio addresses.

And all of that in even less time. If you had to explain the all new 4D System with one word, it would be: Efficiency. But 4D also stands for functionality, reliability and innovation: It is the first snowboard rental System with integrated color coding for boots, boards AND bindings.

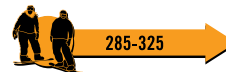
The all new 4D System manages it to cater for the perfect setup for every single customer of yours, and, at the same time, being the easiest, quickest & most efficient snowboard rental System on the market. Although the benefits of 4D can only be fully exploited by using 4D compatible products, each product can also be used by itself or combined with non-4D products - thanks to its modular structure.



4D EFFICIENCY

With its fully integrated color coding, HEAD 4D snowboard rental Systems manages it to guarantee a perfect set-up based on your customers' boot size. This makes the rental process quick and easy.

Mondo Point

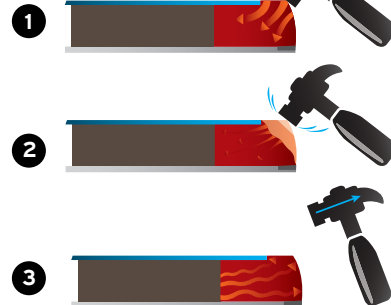


WE JUST MADE OUR AWARD-WINNING FRAMEWALL EVEN BETTER

Liquid Framewall increases the durability of our boards and makes for a smoother ride at the same time. A unique moulded PU Framewall creates a seamless shock barrier for super resilience. The three-dimensional build of the Liquid Framewall covers the boards top sheet and prevents it from chipping

or other external hazards. It's soft material is even able to recover after an impact.

The FRAMEWALL is the first 360° protector on a snowboard - that stretches the boards durability considerably!





FLOCKA LFW 4D

ARTICLE NUMBER

337006 FLOCKA LFW 4D + SpeedDisc

337066 FLOCKA LFW 4D

SIZES	CONTACT	MED. STANCE (CM)
146	109,0	51
151	111,0	53
149	110,5	52
154	114,5	56
159	114,9	58
158	114,9	58
163	119,9	60
168	124,9	60

FLOCKA LFW 4D JR

ARTICLE NUMBER

337106 FLOCKA FW 4D JR + SpeedDisc

337166 FLOCKA FW 4D JR

SIZES	CONTACT	MED. STANCE (CM)
90	60	30
100	67	32
110	75,3	36
120	82,6	42
130	92,0	44
140	101,0	46



FEATURES FLOCKA FW 4D

4D compatible

Flocka shape

Liquid FRAMEWALL

UVR topsheet

Poplar wood core

Easy maintenance base

Retail inspired design

LIBRA LFW 4D

ARTICLE NUMBER

337206 LIBRA LFW 4D + SpeedDisc

337266 LIBRA LFW 4D

SIZES	CONTACT	MED. STANCE (CM)
138	-	50
142	-	52
146	109	56
151	111	58
149	110,5	60
154	114,5	60

FEATURES

4D compatible

LIBRA - Women snowboard rental system

Flocka shape

Liquid FRAMEWALL

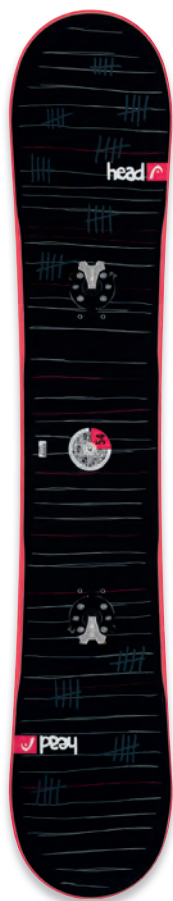
UVR topsheet

Poplar wood core

Easy maintenance base

Women inspired design





ROCKA FW 4D

ARTICLE NUMBER

337304 ROCKA FW 4D + SpeedDisc

337354 ROCKA FW 4D

SIZES	CONTACT	MED. STANCE (CM)
146	58	50
151	60	52
149	60	52
154	64	56
159	66	58
158	66	58
163	68	60
168	68	60



ROCKA FW 4D JR

ARTICLE NUMBER

337404 ROCKA FW 4D JR + SpeedDisc

337454 ROCKA FW 4D JR

SIZES	CONTACT	MED. STANCE (CM)
120	50	42
130	52	44
140	54	46

ROCKA FW 4D KID

ARTICLE NUMBER

337504 ROCKA FW 4D KID + SpeedDisc

337554 ROCKA FW 4D KID

SIZES	CONTACT	MED. STANCE (CM)
90	38	30
100	40	32
110	44	36

NO FRAMEWALL ON ROCKA FW 4D KID.

features ROCKA FW 4D

4D compatible

Rocka shape

Framework

UVR topsheet

Poplar wood core

Easy maintenance die-cut base



ROCKA 4D

ARTICLE NUMBER

337606 ROCKA 4D + SpeedDisc

337666 ROCKA 4D

SIZES	CONTACT	MED. STANCE (CM)
146	58	50
151	60	52
149	60	52
154	64	56
159	66	58
158	66	58
163	68	60
168	68	60



ROCKA 4D JR

ARTICLE NUMBER

337706 ROCKA 4D JR + SpeedDisc

337766 ROCKA 4D JR

SIZES	CONTACT	MED. STANCE (CM)
90	60	30
100	67	32
110	75,3	36
120	82,6	42
130	92,0	44
140	101,0	46

FEATURES ROCKA 4D

4D compatible

Rocka shape

Exchangeable Tip & Tail Protectors

Easy Rent topsheet

Poplar wood core

Easy maintenance die-cut base

TAKE A STANCE ON RENTAL

RENTAL SNOWBOARD TECHNOLOGY 4D COLOR CODE

1. OUR SPEEDDISC ELIMINATES THE NEED FOR TOOLS.

It looks like a regular disc. But it's perfect for the rental market because it comes mounted on our rental boards. It's easy to adjust without tools. A rider or instructor can easily fine-tune the angle on the slope or go from regular to goofy in seconds without lugging around tools. The simple design also makes storage and maintenance easy.

2. WE'VE COLOR-CODED OUR GEAR.

The 4D color coding makes it really easy to match boot size to the right board and binding. Red goes with red. Blue goes with blue. This also helps instructors. When they know what to look for they can see with a glance if the problems a student is having has to do with mismatched gear.

3. RENTAL GEAR THAT DOESN'T LOOK, WELL THAT IT WAS RENTAL:

Our award winning FRAMEWALL technology, or the integrated TNT Shield tip and tail protector to make our product a safe investment, because they are durable. New riders will love the fact that these boards have balanced shapes and flex properly to deliver forgiving performance. It also won't hurt that they don't scream, "HEY LOOK AT ME, I'M A RENTAL."

4. HIGH-QUALITY MANUFACTURING:

We've also integrated highly scratch-resistant top-sheets into our boards. In our boots we've included EVA liners so they dry quickly and are hygienic. Our rental helmets are made from rugged ABS and have an antibacterial Agion lining. You shop owners are going to love the higher re-sale values you can get on all of this gear at the end of the season.

RENTAL SNOWBOARD TECHNOLOGY 4D COLOR CODE



PERFECT SETUP
MOST EFFICIENT

SIZES	BOOT			BINDING	BOARD
	MONDO 195 – 215	EU 30,5 – 33,5	US 1 – 3	JR	90 100 110 120 130 140
	MONDO 225 – 250	EU 35 – 39	US 4 – 6,5	S	146 151
	MONDO 255 – 280	EU 39,5 – 43	US 7 – 10	M	149 154 159
	MONDO 285 – 325	EU 44 – 49,5	US 10,5 – 14,5	L	158 163 168



RX 4D SPEEDDISC

ARTICLE NUMBER

347103

FEATURES

4D compatible, Reclining highback, Rubber dampened base, Padded highback, Power transmission strap, Dura tech toe strap
 sizes S/M/L



NX 4D SPEEDDISC

ARTICLE NUMBER

347403

FEATURES

4D compatible, AutoOpen Total, Toe & Heel base pads, Padded highback, Toolfree forward lean adjuster, Power transmission strap, Dura tech toe strap, Alu buckles
 sizes S/M/L



P THREE 4D SPEEDDISC

ARTICLE NUMBER

347503

FEATURES

Alu Heelcup, Toe & Heel base pads, Padded highback, 3D comfort strap, Dura tech toe strap, Alu buckles, 4D compatible
 sizes S/M/L



P 4D JR SPEEDDISC

ARTICLE NUMBER

347603

FEATURES

4D compatible, JR specific construction, Padded junior highback, Fit ankle strap
 sizes JR



650 4D BOA FOCUS WMN

ARTICLE NUMBER

357055

SIZES 225, 235, 245, 250, 255, 260, 265, 270, 275, 280



650 4D BOA FOCUS

ARTICLE NUMBER

357045

FEATURES

4D compatible, Heavy Profile Rubber outsole, Frequency technology, Full toe and Heel protection, Fully covered BOA cable protection, Pro Fit liner, Bamboo Lining Mesh, Double BOA Lacing

SIZES 225, 235, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 315, 325

600 4D

ARTICLE NUMBER

357206 – 600 4D

357246 – 600 4D BOA (+Coiler)

357306 – 600 4D WMN

357346 – 600 4D BOA WMN (+Coiler)



FEATURES

4D compatible, Moonwalker R Pro outsole Cuff cut construction, Heel frame, Rubber Heelcup, Rubber toecap, Exchangeable rubber tongue guard, Bamboo Lining Mesh BOA H2 coiler lacing

SIZES (MEN)

225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 315, 325

SIZES (WOMEN)

225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280

500 4D

ARTICLE NUMBER

357403 – 500 4D

357443 – 500 4D BOA (+Coiler)



FEATURES

4D compatible, Explorer outsole, Injected Heel section, Rubber covered laceguides Rubber toecap

BOA H2 coiler lacing

SIZES

225, 235, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 315, 325

550 4D

ARTICLE NUMBER

357103 – 550 4D

357143 – 550 4D BOA (+Coiler)



FEATURES

4D compatible, Moonwalker R Pro outsole, Cuff cut construction, Heel frame, Rubber Heelcup, Rubber toecap, Exchangeable rubber tongue guard, Polygiene treatment, BOA H2 coiler lacing

SIZES

225, 235, 245, 250, 255, 260, 265, 270, 275, 280, 285, 290, 295, 300, 305, 315, 325



400 4D JR

ARTICLE NUMBER

357506 – 400 4D JR

357566 – 400 4D JR BOA

FEATURES

4D compatible, Explorer outsole, Rubber covered laceguides, Rubber toecap, Linerless, Bamboo Lining Mesh

SIZES

185, 195, 205, 225, 235, 245, 250

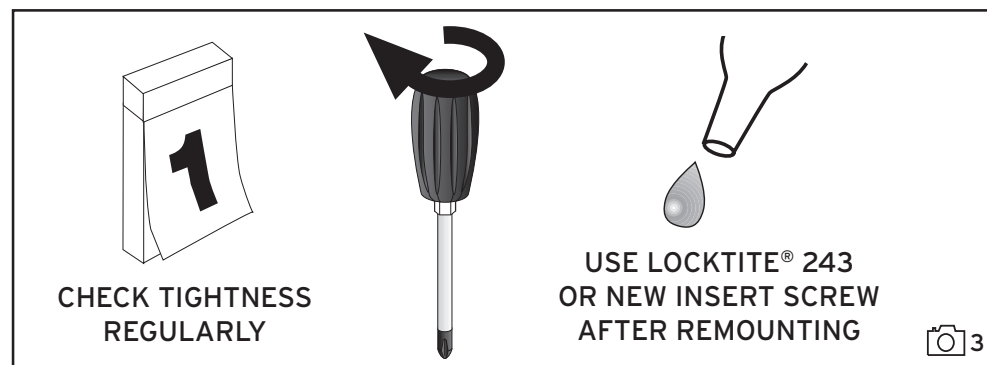
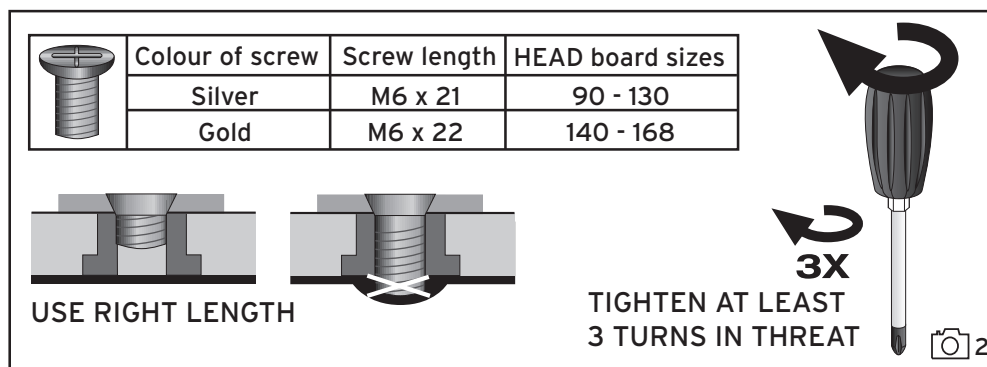
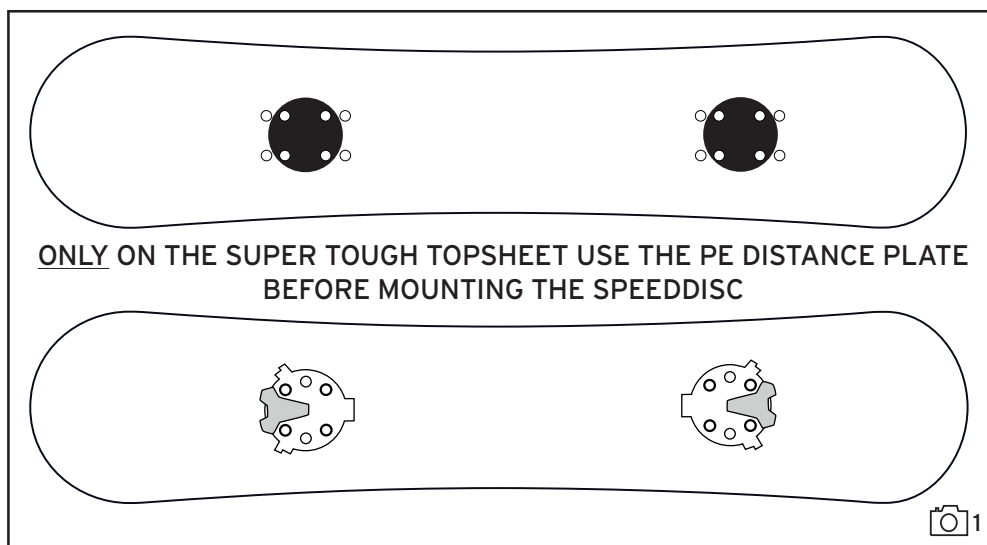
MOUNTING RENTAL DISK

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

2. When assembling, 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 assembling/disassembling the screws must be tightened/loosened using a POZI #3 screwdriver.

3. 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. 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 rider does not lose 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 ankle 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 strap to boot size
	Boot is from other brand	Adjust heelcup & ankle 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

SPARE PARTS 2017.18

P3 4D SPEEDDISC



RX 4D SPEEDDISC



NX 4D SPEEDDISC



PJR 4D SPEEDDISC



SPARE PARTS BOX

377253 SPARE PARTS BOX - NX 4D SPEEDDISC

Description of part	Quantity	Spare part number
Aluminum ankle buckle with mount screw, black ankle buckle with mount screw, black	1 pair	377220
Aluminum toe buckle with mount screw, black	1 pair	377230
Toe adjuster strap with fix pin; black	1 pair	378439
Toe hinge with spring, fixing plate & screw for fixing plate; black	1 pair	377949
Ankle ratchet, black	3 pieces	377159
Ankle Auto Open, black	3 pairs	377169
Toe ratchet (85 mm) black, long version	5 pieces	377849
Screw for basepad fixation	3 sets	377806
Insert screw Speeddisc (M6x22)	8 pieces	377807

377113 SPARE PARTS BOX - P3 4D SPEEDDISC

Description of part	Quantity	Spare part number
Aluminum buckle with screws, red	1 pair	377383
Aluminum buckle with screws, orange	1 pair	377393
Toestrap with adjuster buckle, size M, red	1 pair	378533
Toestrap with adjuster buckle, orange	1 pair	378543
Ankle adjuster strap; black	1 pair	378473
Toe adjuster strap; black	1 pair	378553
Ankle ratchet, black	5 pieces	377106
Toe ratchet, black	5 pieces	377126
Ankle strap screw, black	5 pieces	377976

RENTAL BOARDS & ACCESSORIES



378981
TIP PROTECTOR
ROCKA 4D

378986
STOMP PAD

378746
LEASH LONG

378731
EASY SLIDE DISC

650/650 WMN BOA

378910
H2 BOA COILER
INTERNAL PART

378905
BOA M3 SIDE-
MOUNT REEL

378709
H2 BOA COILER KNOB

TONGUE COVER:
378825: boot size 225 - 255
378835: boot size 260 - 285
378845: boot size 290 - 325

TONGUE COVER WMN:
378887: boot size 225 - 255
378897: boot size 260 - 285

SINGLE CABLE 378755: 100 cm
PACKS 378748: 110 cm

378715: 60 cm
terminated
378725: 70 cm
terminated
378735: 80 cm
terminated
378745: 90 cm

50 PIECE CABLE PACKS
378645: 60 cm terminated
378655: 70 cm terminated
378665: 80 cm terminated
378675: 90 cm
378685: 100 cm
378740: 110 cm

378884 LINER

378894 INSOLES

378860 H2 BOA COILER SCREWDRIVER

600/600 WMN BOA

378884
LINER

378709
H2 BOA COILER
KNOB

378910
H2 BOA COILER
INTERNAL PART

378894 INSOLES

TONGUE COVER:
378857: boot size 225 - 255
378867: boot size 260 - 285
378877: boot size 290 - 325

378860
H2 BOA COILER SCREWDRIVER

SINGLE CABLE PACKS
378748: 110 cm
378738: 120 cm
378728: 130 cm
378718: 140 cm
378759: 150 cm

50 PIECE CABLE PACKS
378740: 110 cm
378730: 120 cm
378720: 130 cm
378710: 140 cm
378750: 150 cm

550 4D BOA

378709
H2 BOA COILER
KNOB

378910
H2 BOA COILER
INTERNAL PART

TONGUE COVER:
378870: boot size 195 - 235
378880: boot size 240 - 285
378890: boot size 290 - 325

378860
H2 BOA COILER SCREWDRIVER

SINGLE CABLE PACKS
378748: 110 cm
378738: 120 cm
378728: 130 cm
378718: 140 cm
378759: 150 cm

50 PIECE CABLE PACKS
378740: 110 cm
378730: 120 cm
378720: 130 cm
378710: 140 cm
378750: 150 cm

600/ 500/ 400 JR/ WMN LACING



550 4D LACING



500 4D BOA



SINGLE CABLE PACKS
 378748: 110 cm
 378738: 120 cm
 378728: 130 cm
 378718: 140 cm
 378759: 150 cm

50 PIECE CABLE PACKS
 378740: 110 cm
 378730: 120 cm
 378720: 130 cm
 378710: 140 cm
 378750: 150 cm

400 4D JR BOA



SINGLE CABLE PACKS
 378748: 110 cm
 378738: 120 cm
 378728: 130 cm
 378718: 140 cm
 378759: 150 cm

50 PIECE CABLE PACKS
 378740: 110 cm
 378730: 120 cm
 378720: 130 cm
 378710: 140 cm
 378750: 150 cm

ART. NO	DESCRIPTION	SUITABLE PRODUCTS	PACKAGE
377106	Ankle ratchet (205x7 mm)	Ratchet	SPX
377113	Spare parts box P3 4D_SPEEDDIS	Others Bindings	ST
377126	Toe ratchet (185 mm)	Ratchet	SPX
377136	Ankle ratchet (185x10 mm)	Ratchet	SPX
377146	Toe ratchet (190 mm)	Ratchet	SPX
377149	Ankle ratchet (212x10mm)	Ratchet	PAA
377159	Ankle ratchet w. hinge	Ratchet	PAA
377169	Toe ratchet (190 mm), black	Ratchet	PAA
377226	Plastic buckle & screw (M5x8)	Buckle	PAA
377253	Spare parts box NX 4D_SPEEDDIS	Others Bindings	ST
377266	Spare part Box BOA rental	Boots	ST
377319	Toe ramp, size M	Toe ramp	PAA
377323	Ankle ratchet (205x7 mm)	Ratchet	SPX
377329	Toe ramp, size L	Toe ramp	PAA
377339	Toe ramp, size XL	Toe ramp	PAA
377343	Anklestrapadjust buckle S (blue)	Buckle	PAA
377353	Anklestrapadjust buckle M (red)	Buckle	PAA

ART. NO	DESCRIPTION	SUITABLE PRODUCTS	PACKAGE
377363	Anklestrapadjust buckle L (orange)	Buckle	PAA
377373	Aluminum buckle size S (blue)	Buckle	PAA
377383	Aluminum buckle size M (red)	Buckle	PAA
377393	Aluminum buckle L (orange)	Buckle	PAA
377483	Metal ankle buckle, S (blue)	Buckle	PAA
377493	Metal ankle buckle, M (red)	Buckle	PAA
377503	Metal ankle buckle, L (orange)	Buckle	PAA
377513	Toestrapad. buckle&screw blue	Buckle	PAA
377523	Toestrapad. buckle&screw red	Buckle	PAA
377533	Toestrapad. buckle&screw orang	Buckle	PAA
377553	RX Ankle buckle S (blue)	Buckle	PAA
377563	RX Ankle buckle M (red)	Buckle	PAA
377573	RX Ankle buckle L (orange)	Buckle	PAA
377583	Forward lean block, size S	Highback	SPX
377593	Forward lean block, size M	Highback	SPX
377603	Forward lean block, size L	Highback	SPX
377643	RX Ankle adjust open strap	Ankle adjust strap	ST
377803	Insert screw & washer (M6X17,4)	Insert screw	SP8
377807	Insert screw (M6x22), Gold	Insert screw	P05
377817	Insert screw (M6x21), Silver	Insert screw	P05
377839	Washer ankle ratchet	Ankle ratchet screw	SPX
377853	Ankle strap P3 4D_SPE, size S	Ankle strap	PAA
377863	Ankle strap P3 4D_SPE, size M	Ankle strap	PAA
377873	Ankle strap P3 4D_SPE, size L	Ankle strap	PAA
377949	Toe hinge, springs & screw	Toe strap adjust screw	PAA
377963	Nut Ankle ratchet	Ankle ratchet screw	ST
377973	Screw_washer, ratchetside	Ankle ratchet screw	ST
377976	Screw (M5x12) ankle ratchet	Ankle ratchet screw	SPX
377979	Screw (M5x11,5) ankle ratchet	Ankle ratchet screw	SPX
377983	Screw_washer, adjusterside	Ankle adjuster screw	ST
377989	Nut (M5x18) ankle ratchet	Ankle ratchet screw	SPX
378016	Nut (M5x10) ankle ratchet	Ankle ratchet screw	SPX
378046	Screw (M5x6,2) ankle ratchet	Ankle ratchet screw	SPX
378056	Base ankle ratchet	Ankle ratchet screw	SPX
378066	Nut (M5x10) ankle ratchet	Ankle ratchet screw	SPX
378166	Washer (M5) highback	Ankle ratchet screw	SPX
378176	Screw (M5x10) forward lean	Forward lean screw	SPX
378206	Screw (M5x9,5) heelcup	Heelcup mount screw	SPX
378216	Nut (M5x10) heelcup	Heelcup mount screw	SPX
378293	Ankle strap RX 4D_SPE., size S	Ankle strap	PAA
378303	Ankle strap RX 4D_SPE., size M	Ankle strap	PAA
378313	Ankle strap RX 4D_SPE., size L	Ankle strap	PAA
378323	Ankle strap NX 4D_SPE., size S	Ankle strap	PAA
378333	Ankle strap NX 4D_SPE., size M	Ankle strap	PAA
378343	Ankle strap NX 4D_SPE., size L	Ankle strap	PAA
378423	Toe strap S & adj. buckle blue	Toe strap	PAA
378439	Toe adjuststrap (120mm)&fixpin	Toe strap	PAA
378443	Ankle strap (320 mm)	Ankle strap	PAA
378469	Ankle Auto Open	Ankle strap	PAA
378473	Ankle adjust strap	Ankle strap	PAA
378503	Toe strap & fix pin	Toe strap	PAA
378513	Toe strap NX 4D_Speeddisc	Toe strap	PAA
378523	Toe strap & adj. buckle, S	Toe strap	PAA
378533	Toe strap & adj. buckle, M	Toe strap	PAA
378543	Toe strap & adj. buckle, L	Toe strap	PAA
378553	P3 4D_Spe. Toe adjuster strap	Toe strap	SPX
378583	Metal toe buckle S (blue)	Buckle	PAA
378593	Metal toe buckle M (red)	Buckle	PAA
378603	Metal toe buckle L (orange)	Buckle	PAA

ART. NO	DESCRIPTION	SUITABLE PRODUCTS	PACKAGE
378623	Toe strap L & adj. buckle oran	Toe strap	PAA
378633	RX 4D_Spe. Toe adjuster strap	Toe strap	SPX
378643	Toe strap M & adj. buckle red	Toe strap	PAA
378645	Cable terminated 60cm, 50piece	Boots	P05
378655	Cable terminated 70cm, 50piece	Boots	P05
378665	Cable terminated 80cm, 50piece	Boots	P05
378675	Cable 90 cm, 50 piece	Boots	P05
378685	Cable 100 cm, 50 piece	Boots	P05
378709	BOA "H2 Coiler" knob	Boots	ST
378710	Cable 140 cm, 50 piece	Boots	P05
378715	Cable terminated: 60 cm	Boots	ST
378718	Cable with wrench: 140 cm	Boots	ST
378720	Cable 130 cm, 50 piece	Boots	P05
378725	Cable terminated: 70 cm	Boots	ST
378728	Cable with wrench: 130 cm	Boots	ST
378730	Cable 120 cm, 50 piece	Boots	P05
378731	Easy Slide Disc	Boards	SPX
378735	Cable terminated: 80 cm	Boots	ST
378738	Cable with wrench: 120 cm	Boots	ST
378740	Cable 110 cm, 50 piece	Boots	P05
378743	RX cable guide highback	Others Bindings	PAA
378745	Cable with wrench: 90 cm	Boots	ST
378746	Leash rental binding	Others Bindings	SPX
378748	Cable with wrench: 110 cm	Boots	ST
378750	Cable 150 cm, 50 piece	Boots	P05
378753	RX Cable, size S, black	Others Bindings	PAA
378755	Cable with wrench: 100 cm	Boots	ST
378759	Cable with wrench: 150 cm	Boots	ST
378763	RX Cable, size M, black	Others Bindings	PAA
378769	Cable with wrench: 160 cm	Boots	ST
378773	RX Cable, size L, black	Others Bindings	PAA
378779	Cable with wrench: 170 cm	Boots	ST
378780	Cable with wrench: 190 cm	Boots	ST
378793	RX cable fastening bolt	Others Bindings	SPX
378825	Tongue cover 650 M (size 225-255)	Boots	PAA
378835	Tongue cover 650 L (size 260-285)	Boots	PAA
378845	Tongue cover 650 XL (size 290-325)	Boots	PAA
378846	Lace for shell (225 cm), black	Boots	PAA
378857	Tongue cover 600 M (size 225-255)	Boots	PAA
378860	Torx wrench (H2 & H2 Coiler)	Boots	SPX
378867	Tongue cover 600 L(size 260-285)	Boots	PAA
378870	Tongue cover 550 S (size 195-235)	Boots	PAA
378877	Tongue cover 600 XL (size 290-325)	Boots	PAA
378880	Tongue cover 550 M (size 225-255)	Boots	PAA
378884	Rental Liner	Boots	PAA
378887	Tongue cover 650W M (size 225-255)	Boots	PAA
378890	Tongue cover 550 L (size 260-285)	Boots	PAA
378892	Metal lace hooks & rivets black	Boots	PAA
378894	Rental Insole	Boots	PAA
378897	Tongue cover 650W L (size 260-285)	Boots	PAA
378905	BOA M3 sidemount reel (M3v2 B1483C)	Boots	ST
378907	BOA M3 kit dial S (B1359)	Boots	ST
378910	H2 Coiler internal parts	Boots	ST
378981	PLASTIC TIP PROTECTOR	Boards	ST
378982	Airdock with screw & washer	Drying Rack	ST
378986	Stomp pad	Others Bindings	ST

NOTES:

HEAD



HEAD Units

AUSTRIA

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

CANADA

HEAD Canada Inc
P.O. Box 3620
Station Main
Guelph, Ontario N1H 7H1
Canada
T. +1 519 822 15 76
E. info@ca.head.com

CZECH REPUBLIC & SLOVAKIA

HEAD International GmbH
Sportovni 457
252 42 Vestec
Czech Republic
T. +420 267 2811 11
E. infoczechia@head.com

FRANCE

HEAD France
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

HEAD International
c/o MARES SPA
Salita Bonsen, 4
San Pietro di Novella
16035 Rapallo (GE)
Italy
T. +39 0185 2011
E. info-head@it.head.com

JAPAN

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

BENELUX

HEAD International GmbH
Plesmanstraat 1
3833 LA Leusden
The Netherlands
T. +31 33 2030 117
E. info.benelux@head.com

POLAND

HEAD International GmbH
Ul. Rydlówka 20
30-363 Kraków
Poland
T. +48 12 255 44 12
E. info@pl.head.com

SPAIN

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

SWITZERLAND

HEAD Switzerland AG
Ruessenstrasse 16
6342 Baar
Switzerland
T. +41 41 767 07 07
E. info@ch.head.com

UNITED KINGDOM

HEAD UK Ltd
2 Beeson 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 trade

HEAD INTERNATIONAL

HEAD International GmbH
Wuhrkopfweg 1
6921 Kennelbach
Austria
T. +43 55 74 608 0
E. trade@head.com

ARGENTINA

Sports & Adventure S.A.
T. +54 11 6320 3400
E. administracionventas@grupovieytes.com

AUSTRALIA

Rosbert International
T. +61 3 909 577 11
E. rosbert@rosbert.com.au

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 25 86995254
E. wuyj@bc-sports.com.cn

CROATIA

Zurcom d.o.o.
T. +385 (0) 1 455 69 79
E. info@zurcom.hr

DENMARK

Cool Sport AIS
T. +45 8853 7777
E. ck@coolsport.dk

FINLAND

Oy Anglo-Nordic AB
T. +358 9 4153 5300
E. myynti@anglo.fi

GREECE

Parnass Ski
T. +30 2670 22646
E. parnas-ski@otenet.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

Speed Jam Parseh Co. Ltd
T. +98 21 6696 5702
E. info@headiran.ir

KAZAKHSTAN

Intelli Sport
T. +7 333 21 777 08
E. intelli.sports@gmail.com

KOSOVO

SINA Ltd.
T. +377 44 124 955
E. ntisina@hotmail.com

LEBANON

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

MACEDONIA

Vekon Int Doel
T. +389 23 298 259
E. borce@elteh.com.mk

NEW ZEALAND

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

NORWAY

Gresvig AS
T. +47 23 35 85 00
E. martin.markussen@gresvig.no

ROMANIA

EXPLOSIV GROUP SRL
T. +40 745 250 740
E. explosivgroup@gmail.com

RUSSIA

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

SERBIA

Markoni Sport d.o.o.
+381 11 2970 550
E. veleprodaja@markonisport.rs

SOUTH KOREA

Alchemist
T. +82 02 430 8060
E. head@alchemist.kr

SWEDEN

Interski AB
T. +46 647 5 06 10
E. info@interski.se

TURKEY

Turkish Ski Federation
T. +90 216 504 4075
E. info@tkf.org.tr

UKRAINE

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