



TECHNICAL MANUAL 2020/2021

BINDINGS

ENGLISH

Welcome Marker Authorized Retailer and Shop Technicians:

Welcome to 2020 - A year of innovation and development. Be it the industry changing Duke PT, the most capable touring enabled binding on the market, or the all-new Jester and Griffon with their re-designed Triple Pivot Elite toe and Inter-Pivot heel, Marker leads the competition in innovation and performance.

The Marker Technical Manual offers a comprehensive overview of the current Marker collection, along with support in all aspects of servicing Marker bindings. The information provided in this manual provides a critical link to the education required in becoming a Marker Certified Technician.

The MARKER Certification and Product Indemnification Program is an important risk management support program for MARKER Authorized Retailers. If the guidelines are carefully followed, it will help protect a MARKER Authorized Retailer's interest against legal claims involving MARKER Ski Bindings. In addition, it aids in providing professional, competent service to your customers.

Use this MARKER Technical Manual with the items listed below and the online training videos at www.markercertification.com to help train your employees. It is important that your employees be well trained in all aspects of binding installation, adjustment and testing. Retail and demo / rental procedures are covered in this technical manual and training videos.

For more information, training and certification go to **www.markercertification.com**.

Shop Technician- Training Videos and Online Certification.

Shop Technician Log In:

Retailer Customer Number

Password : squire

Shop Manager- Track MARKER Certified Technicians for shop.

Dealer Admin Log In:

Retailer Customer Number

Password : jester

We appreciate your business and support in this very important program. Be sure to check out the shop employee store at **<http://www.mdvpro.com/shop-employee>** so you can ski on the same great MARKER products that you sell in the store!

Please contact MARKER should you have any questions or comments.

Best regards for a great ski season,

MARKER USA
(800) 453-3862
112 Etna Rd
Lebanon, NH 03766

www.markerusa.com

www.markercertification.com

www.grip-walk.com

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MARKER CERTIFICATION TEST

see → www.markercertification.com

GripWalk® CERTIFIED RETAILER

see → www.grip-walk.com



1.1 AUTHORIZED RETAILER PROGRAM

The MARKER Authorized Retailer Program described in this Section 1.1 is designed to help the Authorized Retailer provide professional service to customers. Please read these pages and your MARKER Authorized Retailer Agreement carefully, as they define the program and its obligations.

Only current MARKER Authorized Retailers with retail or rental operations in the USA who are in compliance with all program requirements are eligible for the MARKER Authorized Retailer Program. The MARKER Authorized Retailer Program is subject to the terms of your current MARKER Authorized Retailer Agreement.

The MARKER Authorized Retailer Program is not insurance or an offer to provide insurance, nor is it an agreement that MARKER will defend and indemnify Authorized Retailer. Certificates of insurance will not be provided by MARKER. Every Authorized Retailer must have its own liability insurance.

HOW TO PARTICIPATE:

To be a MARKER Authorized Retailer in good standing, the Authorized Retailer must meet the following requirements, which are described in more detail in this Section 1.1 and are subject to the terms of your current MARKER Authorized Retailer Agreement:

1. Be a MARKER Authorized Retailer. To be a MARKER Authorized Retailer you must have a current MARKER Authorized Retailer Agreement, which has been signed by both the Authorized Retailer and an officer of MARKER, and you must be in full compliance with it. If selling any MARKER products online, then you and MARKER must have also signed a current Authorized Web Partner Agreement, and you must also be in full compliance with that agreement.
2. Employ at least one MARKER Certified Technician at each of your locations.
3. Follow the policies and procedures described in this manual. These procedures include proper selection, installation, adjustment, inspection and servicing of MARKER products as well as maintaining proper documentation of your procedures. Also, please note that these requirements must also be met for any online sale made under your Authorized Web Partner Agreement.

BECOME A MARKER CERTIFIED TECHNICIAN:

To become a MARKER Certified Technician you must successfully complete one of the following two options.

Option- 1

Successfully complete the 2018/2019 MARKER Certification Test after gaining a working knowledge of proper procedures for selecting, installing, and servicing MARKER products. Reading the 2018/2019 MARKER Technical Manual and viewing the MARKER Technical Videos online at www.markercertification.com may provide the training and education you will need to successfully complete the certification test.

The MARKER Certification Test must be taken online at:
www.markercertification.com

Option- 2

Attend a Ski and Snowboard Mechanics Workshop. Upon successful completion of the workshop and the related "Binding and Rental Mechanics Self Help Evaluation" the technician will be given a MARKER access card. Technicians must go online to www.markercertification.com and enter their code and information to receive their MARKER Certified Technician Certificate.

Individuals who complete their training and pass the MARKER Certification Test are considered to be MARKER Certified Technicians only while currently employed by a MARKER Authorized Retailer or while under contract with or sponsored by MARKER.

MARKER Authorized Retailers will be invoiced an administration and registration fee for each certification. The fee for U.S. Authorized Retailers will be \$10 for each technician certification taken online or attending the Ski and Snowboard Mechanics Workshop.

1.1 AUTHORIZED RETAILER PROGRAM

AUTHORIZED RETAILER RESPONSIBILITIES:

The Authorized Retailer must comply with all procedures called for in its current MARKER Authorized Retailer Agreement, its Authorized Web Partner Agreement, this Technical Manual, and any subsequent Technical Updates issued by MARKER from time to time.

Specifically, the Authorized Retailer must:

1. Maintain proper and complete records of all MARKER products selected, installed, adjusted, rented or serviced by the Authorized Retailer, as called for in this manual and any subsequent technical updates.
2. Provide the skier with appropriate information, instructions and warnings. The Authorized Retailer must assist the customer in proper equipment selection and must install, adjust, inspect and service any MARKER product in accordance with the procedures described in this manual and any subsequent technical updates.

Customer instruction must include how to operate the product as well as warnings that there are risks in the sport of skiing, that ski-boot-binding systems will not release or retain at all times where release or retention may prevent injury, and that they cannot prevent all injuries to any part of the user's body.

Examples of appropriate warnings are included in the MARKER Rental and Retail agreements in this manual.

WORKSHOP FORMS → 18.5

It is permissible to use most current forms, such as those used by other major binding companies, but if you choose to use other forms of agreement, submit them to MARKER well in advance of the season to be sure that they are acceptable.

3. Not intentionally change the physical form or function of any MARKER binding or other MARKER product.
4. Not engage in application of any MARKER product for other than its intended use (including, without limitation, any use other than in the sport of snow skiing, after proper selection, installation, adjustment and inspection, on a pair of skis or any use of Marker bindings with other types of equipment or on surfaces other than snow).
5. Not commit independent acts of negligence, fraud, gross negligence or willful misconduct, either through or by Authorized Retailer, its employees or its agents.
6. Not participate in illegal, immoral or illicit conduct either through or by Authorized Retailer, its employees, or agents.
7. Not make or permit to be made any warranties or representations other than those that have been expressed in writing by MARKER regarding any MARKER product or any other products.

8. Employ a MARKER Certified Technician at each location that sells, rents or services Marker products. The MARKER Certified Technician must abide by the responsibilities stated below. Should an Authorized Retailer lose its only MARKER Certified Technician at any given location, MARKER must be notified by telephone within 48 hours. Arrangements for certification of a replacement will then be made.

A MARKER Certified Technician will only remain certified while he or she works for a MARKER Authorized Retailer. MARKER must be notified in writing of any MARKER Certified Technician who transfers between Authorized Retailers.

CERTIFIED TECHNICIAN RESPONSIBILITIES:

A MARKER Certified Technician is required to know how to properly select, install, adjust, inspect and service all current MARKER products.

A MARKER Certified Technician must also be able to provide proper skier instruction and warnings for these products.

SKIER INSTRUCTION → 15.4

By his or her signature on a workshop retail or rental form, the MARKER Certified Technician verifies that all appropriate procedures have been followed. MARKER Certified Technicians must always use their full signature on shop records, initials are not acceptable.

RECORD KEEPING → 15.3

It is not necessary that the person who selects, installs, adjusts, inspects or services a MARKER product be a MARKER Certified Technician, but it is essential that the signature that appears on the workshop retail or rental form be that of the MARKER Certified Technician who has inspected the work performed. Non-certified technicians must be familiar with the procedures described in this manual for the products they work on.

1.2 INDEMNIFIED PRODUCTS

Defense and indemnification extend only to those MARKER products listed below which were originally distributed by MARKER, Vökl, K2, Nordica, Blizzard, Kästle and Bogner in the USA, or which were purchased abroad by the customer purely for personal use and not for resale.

MARKER bindings are designed for the sole purpose of alpine skiing and are not intended for any other use.

Products which are worn out or otherwise unsuitable for use, such as those which fail the inspections described in this manual, will not be indemnified.

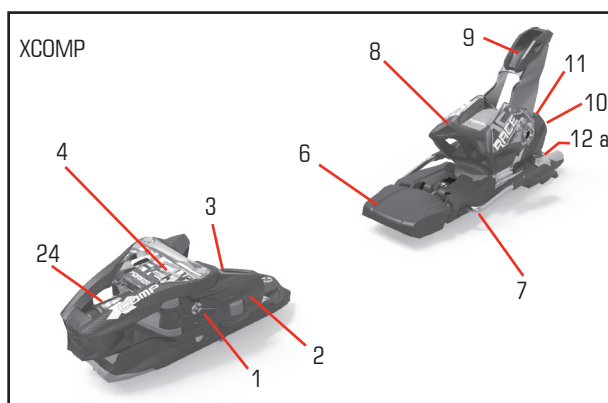
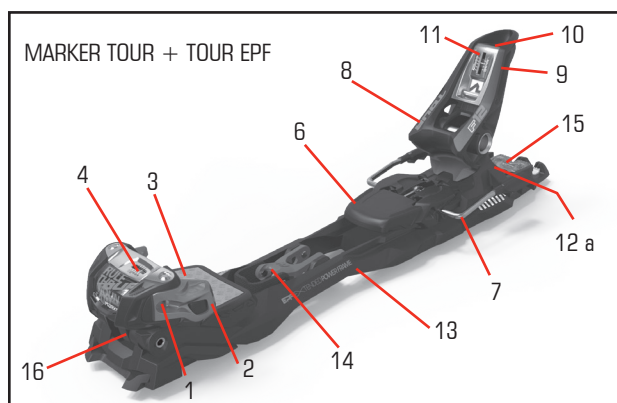
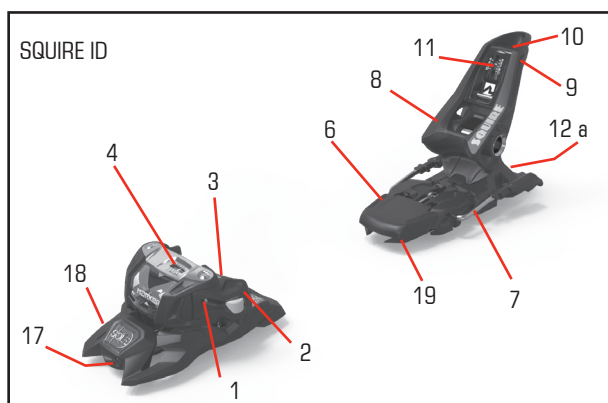
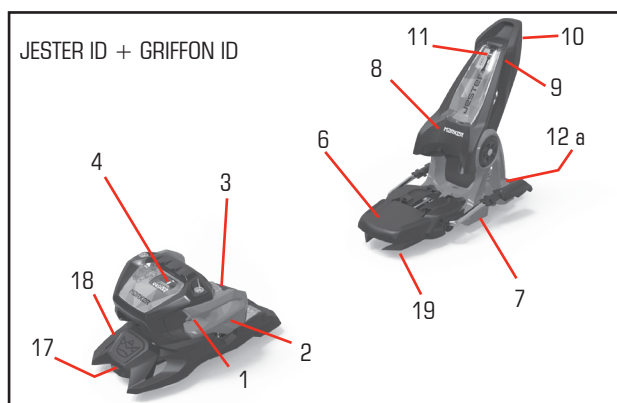
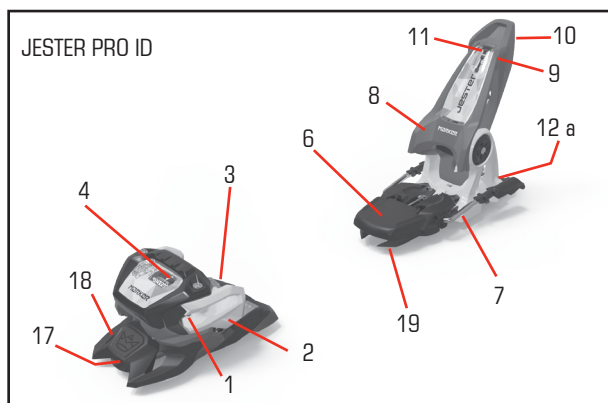
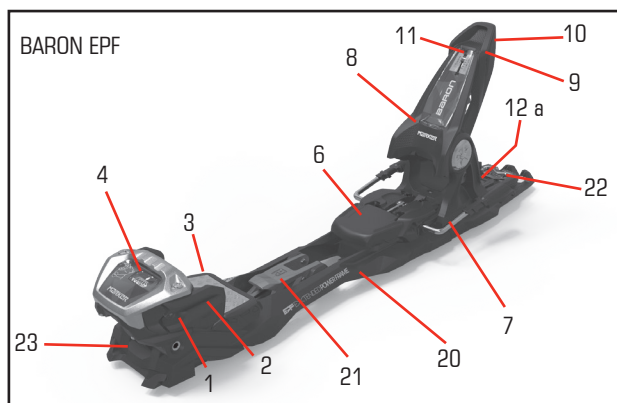
BINDING INSPECTION → 2.2

The bindings listed on the next two pages are defined by MARKER as current products and will be indemnified to the extent defined in this manual and in the MARKER Authorized Retailer Agreement.

2020/2021 Marker Indemnified Retail Binding Line			
Marker Retail Binding Line	Marker Non Current Retail	Marker/K2 Non Current Retail Line	Marker/Blizzard Non Current Retail Line
Duke PT 16	Kingpin 10 (6 pack toe)	MXCELL 14.0 TCx	IQ 7
Duke PT 12	Kingpin 13 (6 pack toe)	MXCELL 12.0 TCx	IQ 4.5
Jester Pro ID	Duke Pro EPF	MXC 12.0 TCx	IQ Xcell 14 Demo
Jester 16 ID	Race Xcell 16 GW	ERC 11.0 TC	IQ Xcell 12 Demo
Griffon 13 ID	Race Xcell 12 GW	M3 12 TCx light	TCX 12 Demo
Xcomp 18	Race Xcell 18	M3 11 TCx light	TCX 12 Demo W
Xcomp 16	Race Xcell 16	ER3 10 TCx light	IQ TCX 12 Demo
Xcomp 12	Race Xcell 12	M3 10 Compact	IQ TCX 12 Demo W
Baron EPF	Duke EPF	ER3 10 Compact	TP 11 Demo
Tour 12 EPF	Free 8	ER3 10 TCx light Quikclick	TP 10 Demo
Tour 10	Lord	M3 12.0 TC	TP 10 Demo W
Squire 11 ID	Squire	M3 11.0 TC	IQ TP 10 CM2 Viva NK
12.0 TPX	Schizo 14	M3 11.0	Power 14 TCX
11.0 TP	Schizo 11	M3 10.0	Power 12 TCX
10.0 TP	Free Ten	ER3 10.0 TC	Power 12 TCX Viva
Race 10 TCX	M7.0 Free	ER3 10.0	IQ TP 12 CM2 NK
Race 10	M11.0 TC EPS	M2 10.0	IQ TP 12 CM2 Viva NK
Race 8 Junior	M10.0 EPS	ERP 10.0	IQ TP 10 CM2 Viva
Free 7	M7.0 EPS	10.0 Free	IQ TP 10 CM2 Viva NK
7.0	M4.5 EPS	MXC 14.0 TCx	IQ TP 10 Viva
4.5	Jester	MOD 12.0 MXC TC	IQ TP 12 CM2
Non ISO Certified Bindings	Griffon	MOD 11.0 TC ERC	IQ TP 12 CM2 Viva
Kingpin Mwerks 12 (2019-)	12.0 Glide Control	MOD 12.0 M3 TC	IQ Power 12
Kingpin 10 (2020-)	M10.0 Jr. Comp EPS	MOD 11.0 M3	IQ Power 11
Kingpin 13 (2020-)	Jester Schizo	MOD 14.0 MXC	IQ Power 11 Viva
Alpinist 12	Griffon Schizo	MOD 12.0 MXC	IQ-LT 10 Viva CM2
Alpinist 9	Squire Schizo	MOD 10.0 M3	IQ LC 10
Alpinist 8	Comp 20.0 EPS	MOD 10.0 ER3	IQ LC 10 Viva
Alpinist 12 Long travel	Comp 16.0 EPS	MOD 10.0 ERP	IQ Power 14
Alpinist 9 Long Travel	Comp 12.0 EPS	MOD 10.0 M2	IQ TC 12
	11.0 Glide Control	MOD 14.0 MX	IQ TC 11
Marker/Völkl Retail Line	M10.0 Ccsi	MOD 12.0 MX	IQ TC 11 Viva
Lowride XL 13 GW	Baron	MOD 11.0 TC ERS	IQ-LT 10
rMotion2 16 GW	Tour 12	MOD 11.0 TC MX	IQ Max 14 TT CM 90
rMotion2 12 GW	Duke	Griffon SchizoFRANTIC	IQ Max 12 TT CM 90
iPT WR XL 12 TCX GW	M11.0 TC Ccsi	Squire SchizoFRANTIC	IQ Max 12 TT CM 90 Viva
iPT WR XL 11 TCX GW Lady	10.0 Free	MOD 11.0 TC M1	IQ Max 12 TT CM 110
VMotion 12 GW	12.0 Free	M10.0 M2	IQ-MAX 14 TT CM 110
VMotion 11 GW Lady		MOD 14.0 Piston M1	IQ-TP 14
VMotion 10 GW	Marker/Völkl Non Current Retail Line	MOD 12.0 Piston M1	IQ-TP 12
VMotion 10 GW Lady	iPT WR XL 14 FR GW	MOD 12.0 M1	IQ-TP 11
7.0 VMotion Jr. R	iPT WR XL 12 FR GW	Piston MOD M1 11.0 TC	IQ TP 11 Viva
7.0 VMotion Jr. R Lady	iPT WR XL 14.0 FR D	MOD M2 11.0 TC	IQ-LT 10 Viva
4.5 VMotion Jr.	iPT WR XL 12.0 FR D	MOD 11.0 M2	IQ-SP 11
4.5 VMotion Jr. Lady	iPT WR XL 12.0 TCX D	MOD 10.0 M2 Q	IQ-SP 11 Viva
	iPT WR XL 11.0 TCX D	M9.0 M2	LT 10 Race
Marker/K2 Retail Line	rMotion2 16.0 D	MOD 14.0 Piston IBX	FR 16 IQ small
MXCELL 14 TCx D	rMotion2 12.0 D	MOD 12.0 Piston IBX	FR 16 IQ large
MXCELL 12 TCx D	xMotion 12.0 TCX D	MOD 12.0 IBX	FR 12 IQ small
MXC 12 TCx Quikclick	xMotion 11.0 TCX D	MOD 11.0 Ti IBX	FR 12 IQ large
MXC 12 TCx light Quikclick	4Motion XL 12.0 TCX D	MOD 11.0 IBX	
M3 12 TCx Light Quikclick	4Motion XL 12.0 TCX	Speed line 7.0	
M3 11 TCx Light Quikclick	4Motion XL 11.0 TCX Lady	M7.0 Speed Line	
ERC 11 TCx light Quikclick	4Motion 11.0 TC D	Marker/Nordica Non Current Retail Line	
ER3 10 TCx light Quikclick	4Motion 11.0 TC	TP Light 11 FDT	
M3 11 Compact Quikclick	4Motion 10.0	IQ 7	
M3 10 Compact Quikclick	3Motion TP Light 10.0	IQ 4.5	
ER3 10 Compact Quikclick	3Motion Junior 4.5	TPX 12 EVO	
ERP 10 Quikclick	3Motion Junior 7.0	N POWER X-Cell EVO	
M2 10 Quikclick	Attiva Motion iPT 12.0 Piston	N PRO X-Cell EVO	
M2 10	Motion Jr. 7.0	N POWER X EVO	
ERP 10	Motion Jr. 4.5	N PRO X EVO	
	Motion iPT R 14.0 Piston	N POWER EVO	
Marker/Nordica Retail Line	Motion LT 11.0 TC	N PRO EVO	
RACE Xcell 14	Motion LT 10.0	N SPORT X CT	
Xcell 14 FDT	Attiva Motion iPT 11.0 TC	N PRO 25 Xbi CT	
Xcell 12 FDT	Attiva Motion LT 11.0 TC	N EXP 25 Xbi CT	
TPX 12 FDT	eMotion 11.0 TC	N EXP EVO	
TP2 Light 11 FDT	iPT Wide Ride 14.0 V-Werks	N SPORT EVO	
TP2 COMPACT 10 FDT	iPT Wide Ride 14.0 D	N PRO XBI	
	iPT Wide Ride 12.0 D	N 3-12 XBi	
Marker/Blizzard Retail Line	rMotion 14.0 D V-Werks	N SPORT XBI	
Xcell 14 Demo	rMotion 16.0 D	N POWER XBI	
Xcell 12 Demo	rMotion 12.0 D	N EXP XBI	
TPX 12 Demo	xMotion 12.0 TC D	N 5-14 XBi	
TPX 12 Demo W	sMotion 12.0 TC D	N 3-12 XBi	
TCX 11 Demo	Attiva iPT Wide Ride 12.0 D	N 3-11 Ti XBi	
TLX 11 Demo	Attiva 3Motion 11.0 TC	N 0514 XBi	
TPC 10 Demo	Attiva 3Motion 10.0	N 0312 Ti XBi	
IQ TP 10	3Motion TL 10.0	N SPORT XBI CT	
IQ TP 10 W	3Motion TL 10.0 Attiva		
TLT 10 DEMO	sMotion 12.0 TC		
TLT 10 DEMO W	iPT SpeedRide 12.0 TS D		
	iPT SpeedRide 11.0 TC D		

2020/2021 Marker Indemnified Rental/Demo Binding Line			
<u>Marker Rental Demo</u>	<u>Marker Non Current Rental Demo</u>	<u>Marker/K2 Non Current Rental Demo</u>	<u>Marker/Blizzard Non Current Rental Demo</u>
Griffon Demo	Jester Demo	Free 10 compact Quikclik	TCX 12 Demo
Griffon TCX Demo	Squire Demo	MXCELL 12.0 TCx Q	TCX 12 Demo W
Squire TCX Demo	10.0 Fastrak III TP	MXC 12.0 TCx Q	TP 11 Demo
Kingpin 10 Demo	M4.5 Fastrak 2	ERC 11.0 TC Q	TP 10 Demo
Kingpin 13 Demo	M7.0 Fastrak 2	M3 10.0 TC Q	TP 10 Demo W
FDT TP12 TPX	M7.0 RTL	ER3 10.0 TC Q	IQ 4.5
FDT TP10	M4.5 RTL	QuikClik M3 10	IQ 7.0
FDT 7.0	10.0 Fastrak III	QuikClik M2 10	IQ Xcell 14 Demo
FDT 4.5	12.0 Glide Control	QuikClik ERP 10	IQ Xcell 12 Demo
7.0 RTL	11.0 Glide Control	Fastrak3 10 TP	IQ TCX 12 Demo
4.5 RTL	M10.0 Fastrak 2	ER3 10 TC Q	IQ TCX 12 Demo W
		MXC 12 TC Q	IQ TP 10 CM2 Viva NK
<u>Marker/Völkl Rental Demo</u>	<u>Marker/Völkl Non Current Rental Demo</u>	MOD 12.0 MXC TC Q Demo	Power 14 TCX
Lowride XL 13 GW	iPT WR XL 14 FR GW	M3 10.0 Q	Power 12 TCX
rMotion2 16 GW	iPT WR XL 12 FR GW	ER3 10.0 Q	Power 12 TCX Viva
rMotion2 12 GW	FDT TP11	MOD 12.0 TC ERC DEMO	IQ TP 12 CM2 NK
iPT WR XL 12 TCX GW	4Motion XL 12.0 TCX	MOD 10.0 M3 Q Demo	IQ TP 12 CM2 Viva NK
iPT WR XL 11 TCX GW Lady	4Motion XL 11.0 TCX Lady	MOD 11.0 TC ERC Demo	IQ TP 10 CM2
VMotion 12 GW	iPT WR XL 14.0 FR D	MOD 10.0 M3 D	IQ TP 10 CM2 Viva
VMotion 11 GW Lady	iPT WR XL 12.0 FR D	MOD 10.0 ER3 D	IQ TP 12 CM2
VMotion 10 GW	iPT WR XL 12.0 TCX D	MOD 12.0 MX D	IQ TP 12 CM2 Viva
VMotion 10 GW Lady	iPT WR XL 11.0 TCX D	MOD 12.0 MX Q Demo	IQ Power 12
7.0 VMotion Jr. R	rMotion2 16.0 D	MOD 11.0 TC ERS D	IQ Power 11
7.0 VMotion Jr. R Lady	rMotion2 12.0 D	MOD 10.0 ERP Q	IQ Power 11 Viva
4.5 VMotion Jr.	4Motion XL 12.0 TCX D	MOD 11.0 TC M1 D	IQ-LT 10 Viva CM2
4.5 VMotion Jr. Lady	xMotion 12.0 TC D	MOD 9.0 IBC	IQ Power 14
	xMotion 11 TCX D	MOD 12.0 Piston M1 D	IQ TC 12 CMR
<u>Marker/K2 Rental Demo</u>	4Motion 11.0 TC D	MOD 12.0 M1 D	IQ TC 11 CMR
MXCELL 12 TCx Quikclik	4Motion 10.0 D	Piston MOD M1 11.0 TC Demo	IQ TC 11 Viva CMR
MXCELL 14 TCx D	3Motion TP Light 10.0 D	MOD M1 11.0 TC Demo	IQ-LT 10 CMR
MXCELL 12 TCx D	3Motion Junior 4.5	MOD M1 11.0 Ti Demo	IQ LC 10 Viva CMR
MXC 12 TCx Quikclik	3Motion Junior 7.0	MOD 11.0 TC IBC	IQ Max 14 TT CM 90
MXC 12 TCx light Quikclik	eMotion 11.0 TC D	MOD 11.0 IBC	IQ Max 12 TT CM 90
M3 12 TCx light Quikclik	iPT Wide Ride 14.0 D	xMotion 12.0 TCx D	IQ Max 12 TT CM 90 Viva
M3 11 TCx light Quikclik	iPT Wide Ride 12.0 D	xMotion 11.0 TCX D	IQ Max 12 TT CM 110
ERC 11 TCx light Quikclik	rMotion 14.0 D V-Werks	MOD 12.0 Piston IBX Demo	IQ-MAX 14 TT CM 110
ER3 10 TCx light Quikclik	rMotion 16.0 D	MOD 12.0 IBX D	IQ-MAX 12 TT CM 110
M3 10 Compact Quikclik	rMotion 12.0 D	MOD 11.0 Ti IBX Demo	IQ-TP 14 CM
ER3 10 Compact Quikclik	xMotion 12 TC D		IQ-TP 12 CM
M2 10 Quikclik	sMotion 12.0 TC D	<u>Marker/Nordica Non Current Rental Demo</u>	IQ-TP 11 CM
ERP 10 Quikclik	Attiva iPT Wide Ride 12.0 D	TP LIGHT 11 FDT	IQ TP 11 Viva CM
Free 10 Quikclik	3Motion TL 10.0 D	TP COMPACT 10 FDT	MOD 10.0 IBC
	3Motion TL 10.0 Attiva D	N POWER X EVO	MOD 14.0 Piston IBX Demo
<u>Marker/Nordica Rental Demo</u>	3Motion 10.0 Attiva D	N PRO X EVO	IQ-TP 14 CMR
RACE XCELL 14	iPT SpeedRide 12.0 TS D	N POWER EVO	IQ-TP 12 CMR
XCELL 14 FDT	iPT SpeedRide 11.0 TC D	N PRO EVO	IQ-TP 11 CMR
XCELL 12 FDT	Motion iPTR 14.0 D	N EXP EVO	IQ TP 11 Viva CMR
TPX 12 FDT	Motion iPT 12.0 D	N SPORT EVO	IQ-LT 10 CM
TP2 LIGHT 11 FDT	Motion iPT 11.0 TC D	N SPORT X CT	IQ-LT 10 Viva CM
TP2 COMPACT 10 FDT	3Motion 11.0 D Attiva	N PRO 25 Xbi CT	IQ-LT 10 Viva CMR
M 7.0 FDT	3Motion 10.0 D	N EXP 25 Xbi CT	IQ-SP 11 CM
M 4.5 FDT	Motion TT 10.0 D	N PRO XBI	IQ-SP 11 Viva CM
	Motion TT 10.0 D Attiva	N 3-12 XBI	
<u>Marker/Blizzard Rental Demo</u>	Motion iPT 12.0 TS Piston D	N SPORT XBI	
TPX 12 Demo	Motion iPT 14.0 Piston Demo	N POWER XBI	
TPX 12 Demo W	Motion iPT 12.0 Piston Demo	N EXP XBI,	
TCX 11 Demo	Motion iPT 11.0 TC Demo	N SPORT XBI CT	
TLX 11 Demo	Motion TT 11.0 TC		
TPC 10 Demo		<u>Marker/Bogner Non Current Retail & Rental Demo</u>	<u>Marker/Kästle Non Current</u>
Xcell 14 Demo		11.0 TC Glide Control D Bogner	KTI K14
Xcell 12 Demo			KTI K12
IQ TP 10			CTI K14
IQ TP 10 W			CTI K12
TLT 10 DEMO			CTI K11 Glide Control
TLT 10 DEMO W			
<u>Marker/Bogner Retail & Rental Demo</u>			
FDT TP 11 Bogner			
FDT TP 11 Indigo			
Xcell 12 Demo; Bogner			
Xcell 12 Demo; Indigo			

2.1 BINDING COMPONENT DESCRIPTION



TOE

- 1 Release force adjustment screw
- 2 Toe cup (soleholder)
- 3 Gliding AFD
- 4 Release force scale

MARKER TOUR + TOUR EPF

- 13 Tour system plate
- 14 Tour engagement lever
- 15 Tour climbing aid
- 16 Tour AFD adjustment screw

BARON EPF

- 20 BCT plate
- 21 BCT engagement lever
- 22 Climbing aid
- 23 AFD adjustment screw

HEEL

- 6 Brake pedal
- 7 Ski brake
- 8 Heel cup (soleholder)
- 9 Opening lever
- 10 Release force adjustment screw
- 11 Release force scale
- 12a Forward pressure adjustment screw

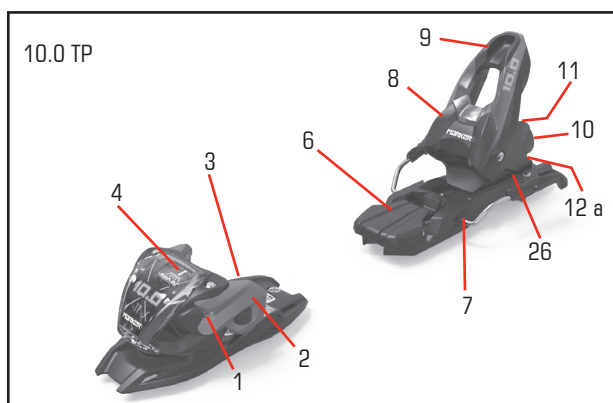
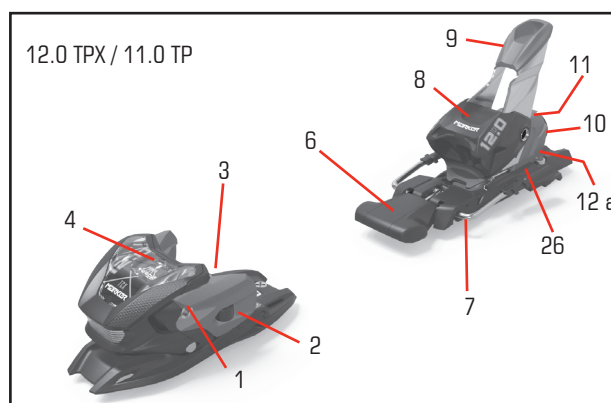
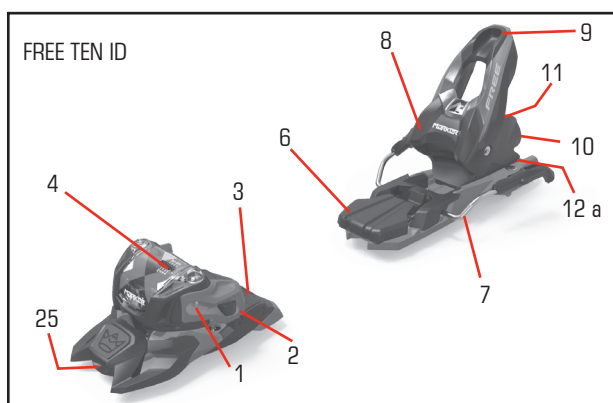
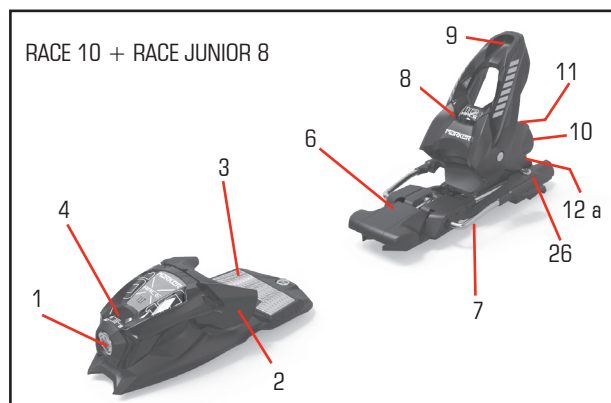
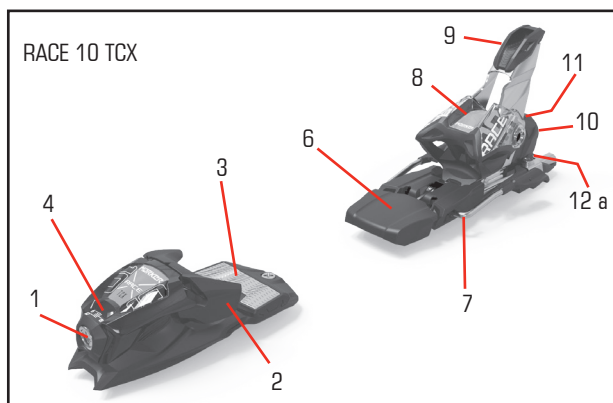
JESTER PRO ID & JESTER ID & GRIFFON ID & SQUIRE ID

- 17 Adjustment screw gliding AFD sole.ID
- 18 Front plate
- 19 Heel plate

XCOMP

- 24 Xcell shock absorber

2.1 BINDING COMPONENT DESCRIPTION



TOE

- 1 Release force adjustment screw
- 2 Toe cup (soleholder)
- 3 Gliding AFD
- 4 Release force scale
- 5 BIOTECH upward release

HEEL

- 6 Brake pedal
- 7 Ski brake
- 8 Heel cup (soleholder)
- 9 Opening lever
- 10 Release force adjustment screw
- 11 Release force scale
- 12a Forward pressure adjustment screw
- 12b Child & Junior forward pressure lever

FREE TEN ID

- 25 Adjustment screw gliding AFD sole.ID

EPS

- 26 heel plate

KINGPIN

see → 16.1 on page 116

KINGPIN DEMO:

see → 14.1 on page 88

MARKER ALPINIST & ALPINIST LONG

TRAVEL:

see → 17.1 on page 130

MARKER DUKE PT 16 & DUKE PT 12:

see → 4.1 on page 21

MARKER bindings conform to the CPSIA Act of 2008, Section 101

For complete information on Section 101 please refer to the CPSC or Marker web sites.

2.2 BINDING INSPECTION:

GENERAL NOTE:

In order for Marker to optimize our quality management and product design it is requested that all Marker ski binding quality and product issues be reported to your Marker sales representative and / or distributor.

As an authorized MARKER retailer, you agree to check all the equipment according to DIN - ISO 11088 before the installation or adjustment of the function unit ski / ski binding / ski boot. If necessary, you have to replace one part of the unit or all three parts. All parts have to be in accordance with DIN - ISO standards.

All new MARKER bindings are in accordance with the requirement of the national and international norms (ISO and ASTM) and may even have a higher accuracy than required. They are also inspected by the TÜV Product Service. Before the installation and adjustment perform a visual inspection of the binding (especially with used bindings).

NOTE THE FOLLOWING:

- Check if the release force settings are correct according to the skier.
- Check the surfaces which stay in direct contact with the ski boot if they are deteriorated or damaged.
- Repair or replace the deteriorated or damaged parts with new parts.
- Check if the gliding AFD is damaged.
- Check if the ski brake is broken or bent, and check function.

REPLACING SKI BRAKES → **13.4 - 13.10**
BRAKE CHART → **18.2**

- Check if screws are missing.
- Check if all screws have the correct length.

SCREW CHART → **18.1**

- Check scales for readability and adjustability.
- Remove dirt or corrosion with a moist rag or with compressed air. Repair damaged parts. Do not use solvents. Do not use silicone or any other lubricating agent on the toe and heel cup areas or any other binding part that has direct contact with the boot.

REMARK:

MARKER ALPINIST, KINGPIN & KINGPIN MWERKS ski bindings do not meet ISO Certification.

MARKER ALPINIST, KINGPIN & KINGPIN MWERKS ski bindings are compatible with ski boots with tech inserts to the Dynafit specification of 29.09.2009. In addition, some boot manufacturers have developed boots and manufactured their own inserts for their touring ski boots which should be suitable for Pin-Tech bindings. However, Marker cannot guarantee that these inserts will function correctly.

2.3 SKI INSPECTION:

Follow the ski manufacturer's instructions concerning drill bit dimensions, adhesives or tapping. In the absence of any ski manufacturer guideline, follow the recommendations in this chapter.

- Ensure adequate thickness to allow for proper screw penetration depth. If you suspect that the ski may be too thin, place the binding component on the ski so that the screw, about which you are concerned, hangs over the side of the ski. If it looks like the screw may dimple the ski base use a shorter MARKER screw or carefully grind the screw.

Pay special attention when mounting junior skis. For the installation of the Free 8 and 7.0 / 4.5 bindings use the drill bits 3,6 x 7,5 or 4,1 x 7,5 for both junior skis and adult skis.

The models Race 10 and Race Junior 8 will accommodate both junior skis and adult skis. When mounting these binding models on group 3 and 4 junior skis use the drill bits 3,6 x 7,5 or 4,1 x 7,5. Furthermore, the pre-installed screws have to be removed and replaced with the junior screw set.

- Ensure adequate width. Check the location of any top edges which the binding screws might contact and cause delamination or distortion. This is especially important for narrow skis with aluminum top edges.
- Check the location of the reinforced mounting platform or similar reinforcement plates which are 3 to 6 mm below the top surface. These plates must be drilled completely through to ensure proper screw penetration and retention and to help prevent top - sheet delamination caused by a screw tip not penetrating the mounting platform.



CAUTION !

When installed, the screws should not dimple or pierce the ski base.



CAUTION !

The intended use of MARKER ski bindings is only for the sport of alpine skiing and should not be used for any other purpose.

2.4 BOOT INSPECTION:

Most boots are manufactured in accordance with the ISO 5355 standard specification for "Alpine" ski boot dimensions, while most alpine touring boots are manufactured in accordance with ISO 9523 standard specification for "Alpine Touring" ski boot dimensions. These standards define the critical shapes at the toe and heel of the boot to help ensure compatibility with the binding, according to ISO 9462 and ISO 13992.

STANDARD SKI BOOT NORMS:

ISO 5355 Standard Alpine Boot: (2.4 - 1 and 2.4 - 2)

Designed for use with a pair of skis and a standard alpine boot compatible binding.

Not to be used with a monoski, snowboard or ski board.

ISO 9523 Standard Alpine Touring Boot: (2.4 - 3)

Designed for use with a pair of skis and a standard touring boot compatible binding, and not a standard alpine boot only compatible binding.

Not to be used with a monoski, snowboard or ski board.

CHECK THE BOOTS FOR THE FOLLOWING:

- If the boot is a Standard Alpine Boot, it will usually be stamped or marked with the initials "DIN" or "ISO". If these initials are not on the boot, contact the boot manufacturer for appropriate procedures for modifying the boot in order to bring it within standard. If the boot can be modified so that the resulting boot meets the ISO standard, it can be used with MARKER bindings.
- Inspect the AFD area on the sole for damage, excessive wear or foreign material. For "Standard Alpine Boot" the AFD area of the sole should be smooth and flat.
- Check for excessive wear on any surface where the boot contacts the binding. The boot sole should not be worn beyond the minimum dimensions according to the norm. When in doubt, replace the boot.
- Inspect the boot for proper shell hardness. Although most boots are made with relatively hard plastics, some older models were made with low - grade thermoplastic material which can be easily depressed with a thumbnail. MARKER does not recommend the use of low - grade thermoplastic boots due to their inconsistent performance properties. If you determine that the boot is low - grade thermoplastic, make a note on the workshop form and inform the customer.

Junior/Child Boot Sole Alpine Norm

- Junior/Children norm boot soles must never be used with adult boot sole norm bindings.
- The binding models Race Junior 8 and Free 8 are designed for use only with Junior norm boots.
- MARKER's M 7.0 and M 4.5 will accommodate both adult and junior boots.



CAUTION !

Any performance or fit modifications of a boot could affect the function between the boot and binding. The boots should be inspected to verify that they meet the Standard Alpine Boot or Standard Alpine Touring Standards. Mechanical Inspection is recommended after any such modifications.



CAUTION !

Only ski boots which are in accordance with a valid norm can be used in combination with a MARKER binding that is compatible with that Standard Ski Boot Norm.



IMPORTANT !

It has become increasingly more important to identify the boot sole type that will be used in the specific boot to binding system and their compatibility. The Boot Sole Type used in the boot to binding system should be noted on the workshop form.

RECORD KEEPING → 15.3



CAUTION !

MARKER KINGPIN 10, KINGPIN 10 Demo and KINGPIN 13 ski bindings are compatible with ski boots in accordance with ISO 9523 with tech inserts to the Dynafit specification of 29.09.2009.

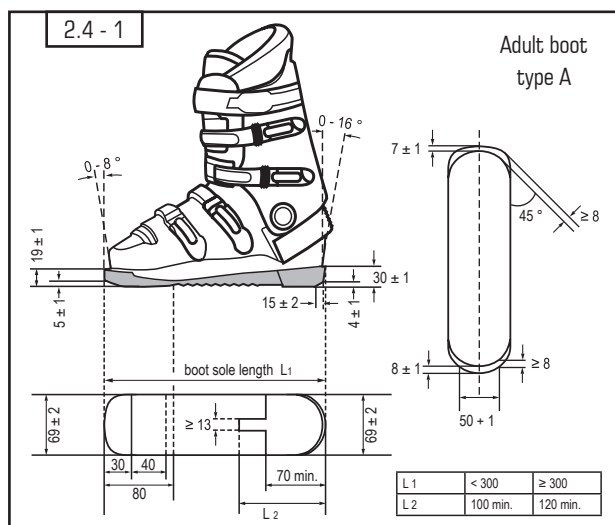
In addition, some boot manufacturers have developed and manufactured their own inserts for their touring ski boots which should be suitable for Pin-Tech bindings. However, Marker cannot guarantee that these inserts will function correctly.



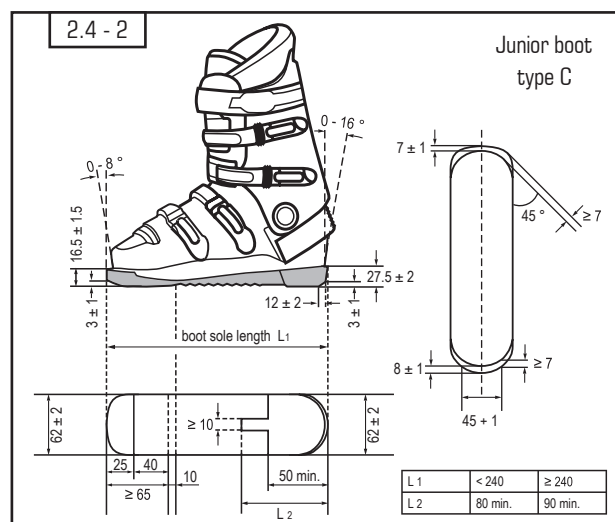
NOTE:

K2, Dalbello, Tecnica, Nordica boots that have Alpine Boot Sole dimensions and tech inserts are compatible with all Marker bindings.

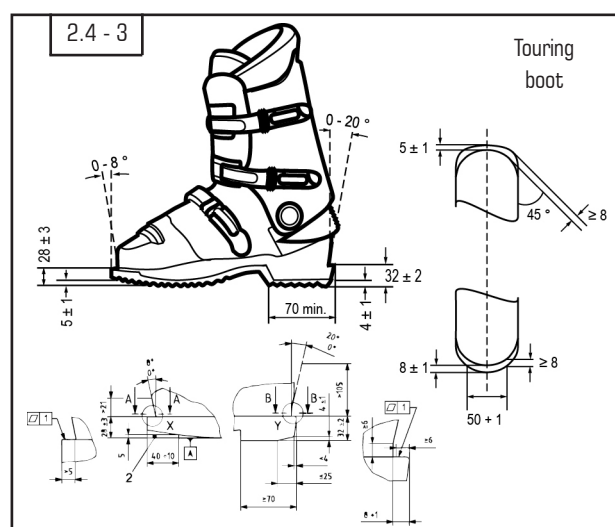
2.4 BOOT INSPECTION



Standard Adult Alpine Boot according to ISO 5355. (2.4 - 1)



Standard Children Alpine Boot according to ISO 5355. (2.4 - 2)



Standard Alpine Touring Boot according to ISO 9523. (2.4 - 3)

2.5 GRIPWALK:

In cooperation with well-known ski boot manufacturers MARKER presents a new boot – binding system which provides increased comfort and better grip when walking, starting winter 16 / 17. The partners for the Gripwalk® system are Dalbello, K2, Nordica, Tecnica, HEAD, Fischer, Rossignol, Lange, Atomic and Salomon. The outsole set bears the product identification "Gripwalk®" and is compatible with the following MARKER binding systems:

- Alpine ski bindings in accordance with ISO standard 9462 with the additional marking "Gripwalk®".
- Touring ski bindings in accordance with ISO standard 13992
- Duke & Baron models
- MARKER "sole.ID" models



IMPORTANT SAFETY ADVICE !

The use of the Gripwalk® outsoles with other binding systems than listed above can lead to the failure of the ski-boot-binding combination, impair the release function and is not allowed therefore.

COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS

BINDING \ BOOT	ALPINE 5355	TOURING 9523	GRIP-WALK	WTR
ALPINE	X			
GRIPWALK	X		X	
TOURING / DUKE & BARON	X	X	X	X
SOLE.ID LORD SP	X	X	X	X



The GripWalk® outsoles are removable and must be replaced when worn and / or damaged. MARKER recommends as a matter of urgency, particularly before the skiing season and after any change of the outsoles to check the correct fit of the ski-boot-binding combination with suitable function testing equipment and, if required, to readjust the system.

To identify a GripWalk® outsole, there must be a marking of ISO 9523 (Alpine Touring) with the additional marking of GripWalk® on the sole. (2.5-1) (2.5-2)

When GripWalk® outsoles are installed on a boot, it is recommended that the GripWalk® stickers that come with the soles to be affixed to the boot in a clearly visible location. (2.5-3)

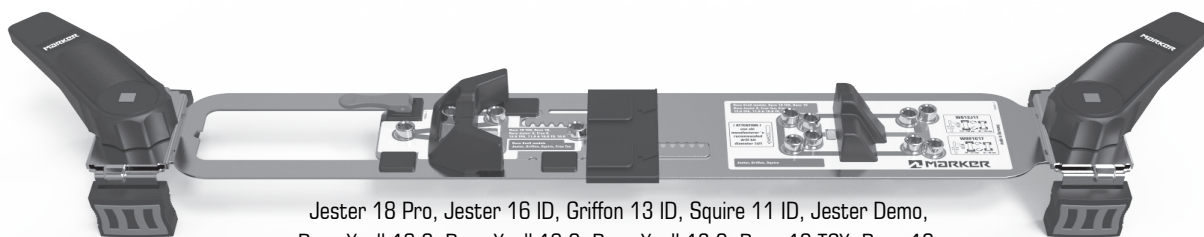


IMPORTANT:

Please note for more information and updates please visit www.grip-walk.com



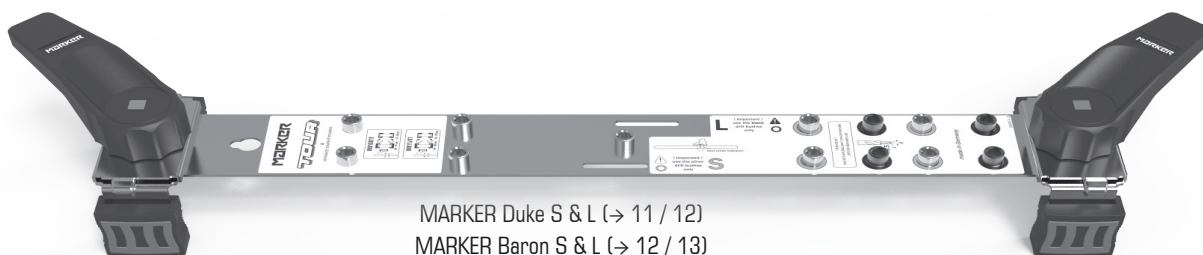
3.1 INSTALLATION TOOLS FOR MARKER BINDINGS:

W001G1T**W012J1T**

Jester 18 Pro, Jester 16 ID, Griffon 13 ID, Squire 11 ID, Jester Demo,
Race Xcell 18.0, Race Xcell 16.0, Race Xcell 12.0, Race 10 TCX, Race 10,
Race Junior 8, 12.0 TPX, 11.0 TP, 10.0 TP, Free 10, 10.0 EPS

W006M1T

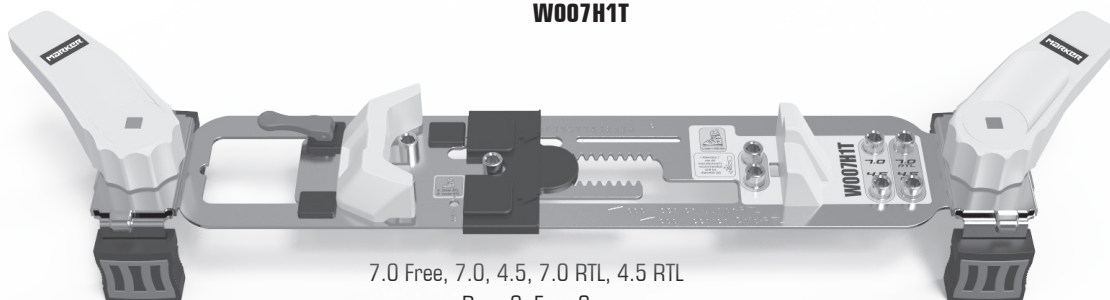
MARKER Duke EPF S & L
MARKER Baron EPF S & L
MARKER F 12 Tour EPF S & L

W010G1T**W011J1T**

MARKER Duke S & L (→ 11 / 12)
MARKER Baron S & L (→ 12 / 13)
MARKER F 12 Tour S & L MARKER F 10 Tour S & L

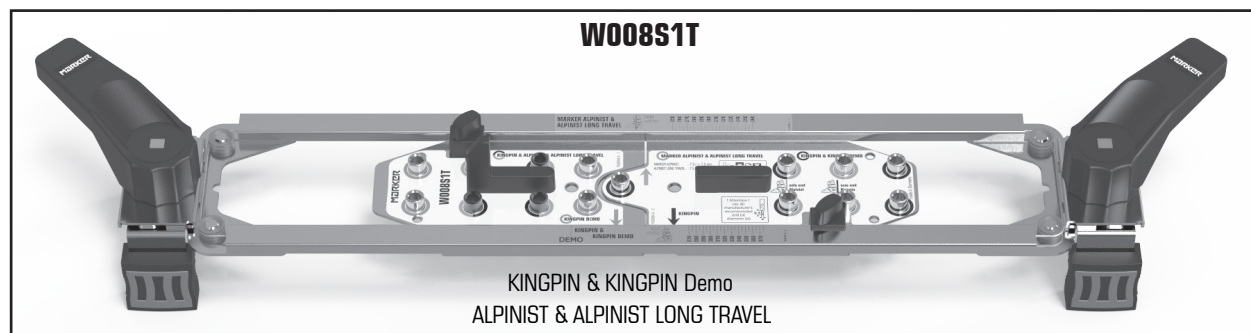
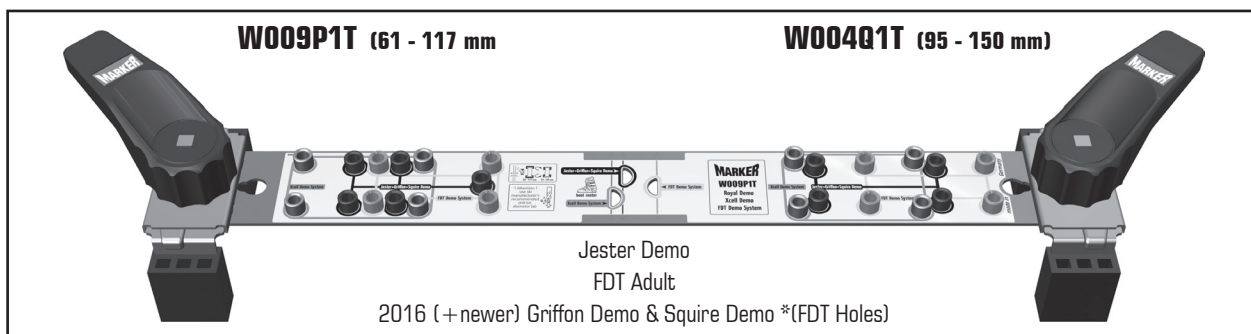
W003H1T

Fastrak III Fastrak II
Junior Fastrak II
FDT Jr

W007H1T

7.0 Free, 7.0, 4.5, 7.0 RTL, 4.5 RTL
Race 8, Free 8

3.1 INSTALLATION TOOLS FOR MARKER BINDINGS:



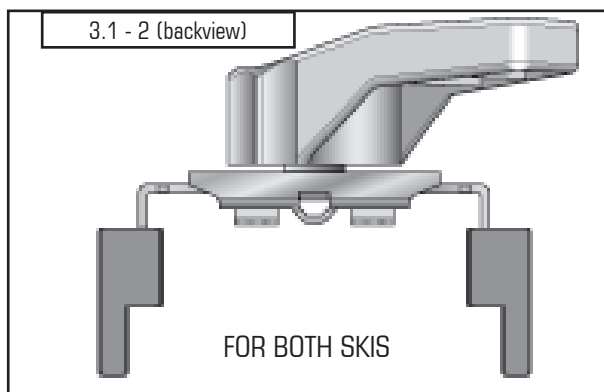
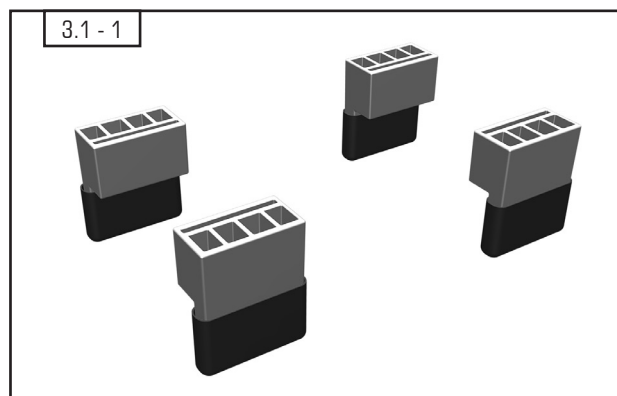
3.1 INSTALLATION TOOLS FOR MARKER BINDINGS:

REMARK:

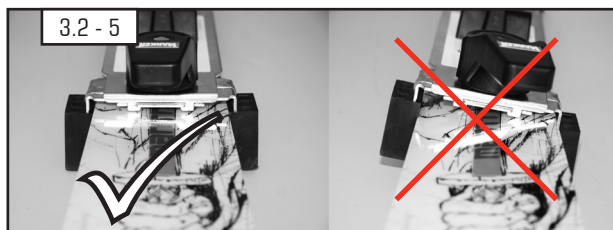
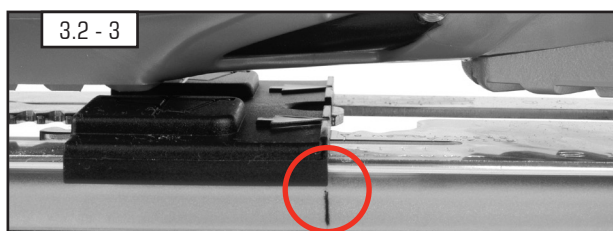
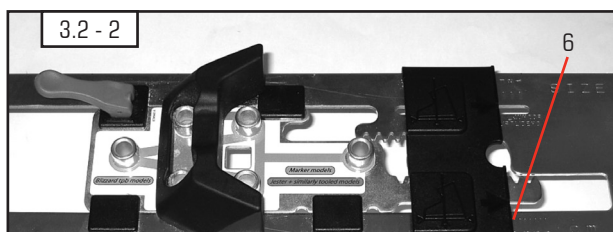
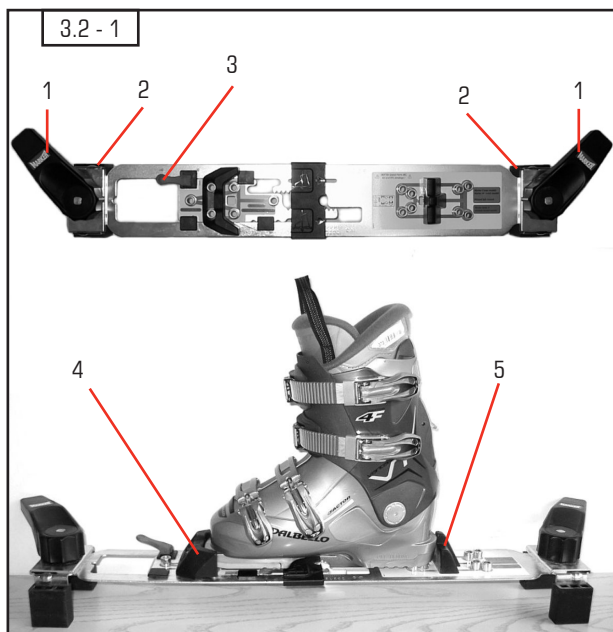
For wide skis up to 148 mm MARKER offers an adapter kit for installation tools. (3.1 - 1)
(mounting tool adapter wide skis 148 mm; Art. Nr.: W001J1A)

MOUNTING THE TOOL ADAPTER:

- Remove the four standard feet and replace them with the mounting tool adapters as indicated in the picture (3.1 - 2).



3.2 TOOLS AND THEIR APPLICATION:



ADJUSTMENT OF THE BINDING INSTALLATION TOOLS



IMPORTANT !

Use only original MARKER installation tools ! Make sure that the installation tool is correctly positioned on the ski for all adjustments !

REMARK:

The following installation steps are basic know - how and valid for all MARKER bindings.

ADJUSTING BOOT SOLE LENGTH

OPTIMIZED BY USING THE SKI BOOT: (3.2 - 1)

- Twist the grips (1) until the clamping jaws (2) are fully extended. Position the installation tool on the ski and lock it by releasing the grips.
- Open the locking lever (3) and place the boot heel against the heel guide (5).
- Slide the toe guide (4) until the boot is firmly against both toe (4) and heel guide (5).
- Check that boot's mid boot mark is aligned with mid boot mark on installation tool (6). (3.2 - 2)
- Close the locking lever (3).
- Remove the ski boot.

DETERMINE THE BINDING PLACEMENT ON THE SKI

IF MID - SOLE MARKS ON THE SKIS ARE USED:

- Place the installation tool on the ski and align the mid - sole mark on the ski with the mid - sole mark on the installation tool. (3.2 - 3)

IF BOOT TOE MARKS ON THE SKIS ARE USED:

- Place the installation tool on the ski and align the toe guide on the tool with the boot toe mark on the ski. (3.2 - 4)

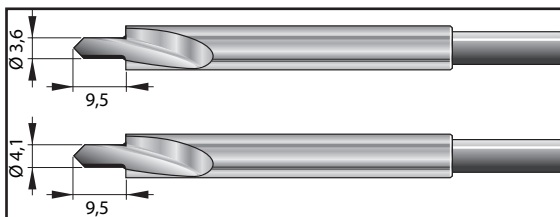


IMPORTANT !

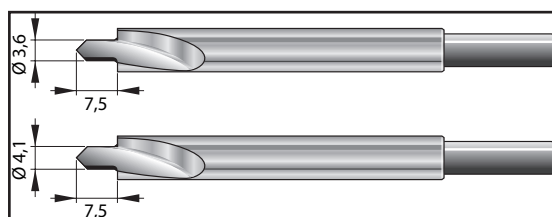
Before drilling, check that the installation tool is flush and centered on the ski. (3.2 - 5) Take particular care with skis that have angled sidewalls, extreme sidecuts or external plates.

3.2 TOOLS AND THEIR APPLICATION:

3.2 - 7 Drill bits for adult bindings



3.2 - 7 Drill bits for child & junior bindings



GENERAL INFORMATION INSTALLATION

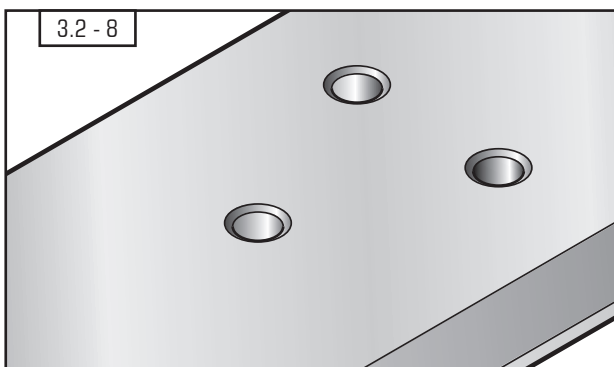
DRILLING:

REMARK:

Use original MARKER drill bits for an optimal result (3.2 - 7).

- Drill all necessary mounting holes through the drill bushings on the installation tool.
(Details: see installation of the individual bindings)
- After drilling is completed remove the installation tool from the ski.
- Always keep the drill bit vertically aligned with the drill bushings in the installation tool and drill to the countersunk depth. (3.2 - 8)
- Shavings and dust have to be removed from the surface of the ski and all holes.

3.2 - 8



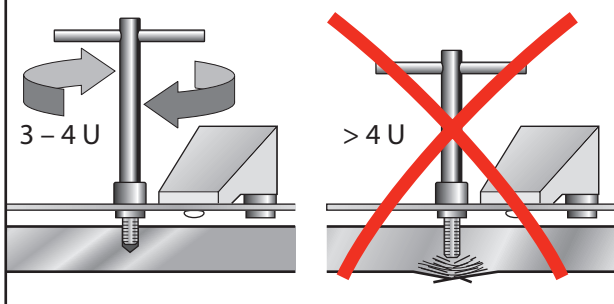
TAPPING:

REMARK:

Holes should only be tapped if recommended by the ski manufacturer. Use an original MARKER tap. Use the installation tool for tapping.

- Drill all mounting holes.
- Tap through the drill bushings of the installation tool.
- Apply slight downward pressure and turn the tap. As soon as the tap begins to cut, simple turning will thread the hole. Turn the tap three or four revolutions. (3.2 - 9)

3.2 - 9

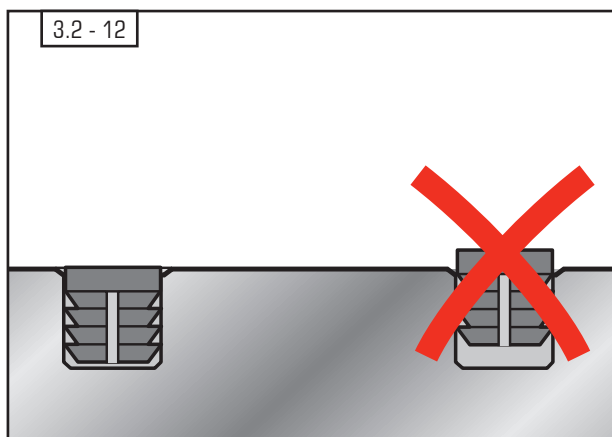
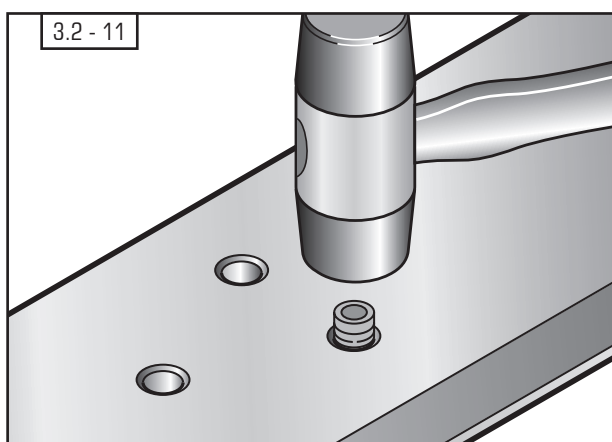
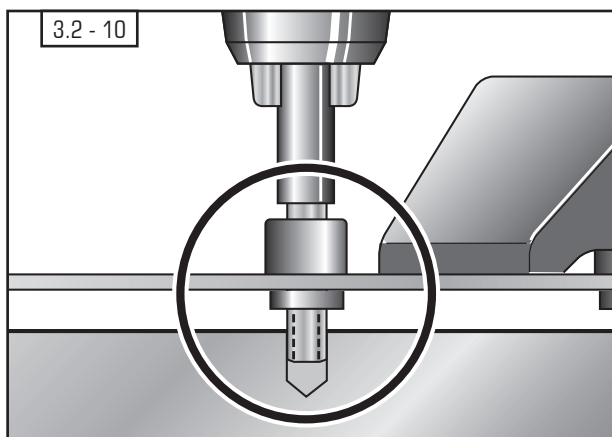


IMPORTANT !

Be careful not to tap too deep !

- Back the tap out of the hole. Shavings and dust have to be removed from the surface of the ski and all holes.

3.2 TOOLS AND THEIR APPLICATION:



ATTACHMENT SCREWS:



IMPORTANT !

Use only original MARKER attachment screws.

- All screws must be firmly seated and not stripped.
- If a power driver is used, keep the torque settings on the clutch as low as possible to help prevent stripping of the screws.
- Final tightening of the screws must always be done by hand.
- The screw head should be flush with the binding and the binding should be firmly attached to the ski.
- Check that each screw is firmly seated.

REMARK:

For supply or to check for the correct screws use the SCREW CHARTS → 18.1

STRIPPED SCREWS:

Occasionally a screw will be over - torqued or the hole stripped.

Repair using:

MARKER hollow drill bit (Part No. 2651)

MARKER helicoil insert (Part No. 2653)

- Remove all binding parts from the ski.
- Place the proper installation tool over the stripped holes to use the appropriate drill bushing to repair the stripped screw.
- Slowly drill through the bushing until the hollow drill bit step stops on the top of the bushing (3.2 - 10).
- Remove the installation tool.
- Shavings and dust have to be removed from the surface of the ski and all holes. Strike the base with your hand to remove any shavings.
- Using a hammer, plug the hole with the MARKER plastic insert (3.2 - 11).



CAUTION !

Make sure that the plastic insert is flush with the top - sheet of the ski (3.2 - 12) !

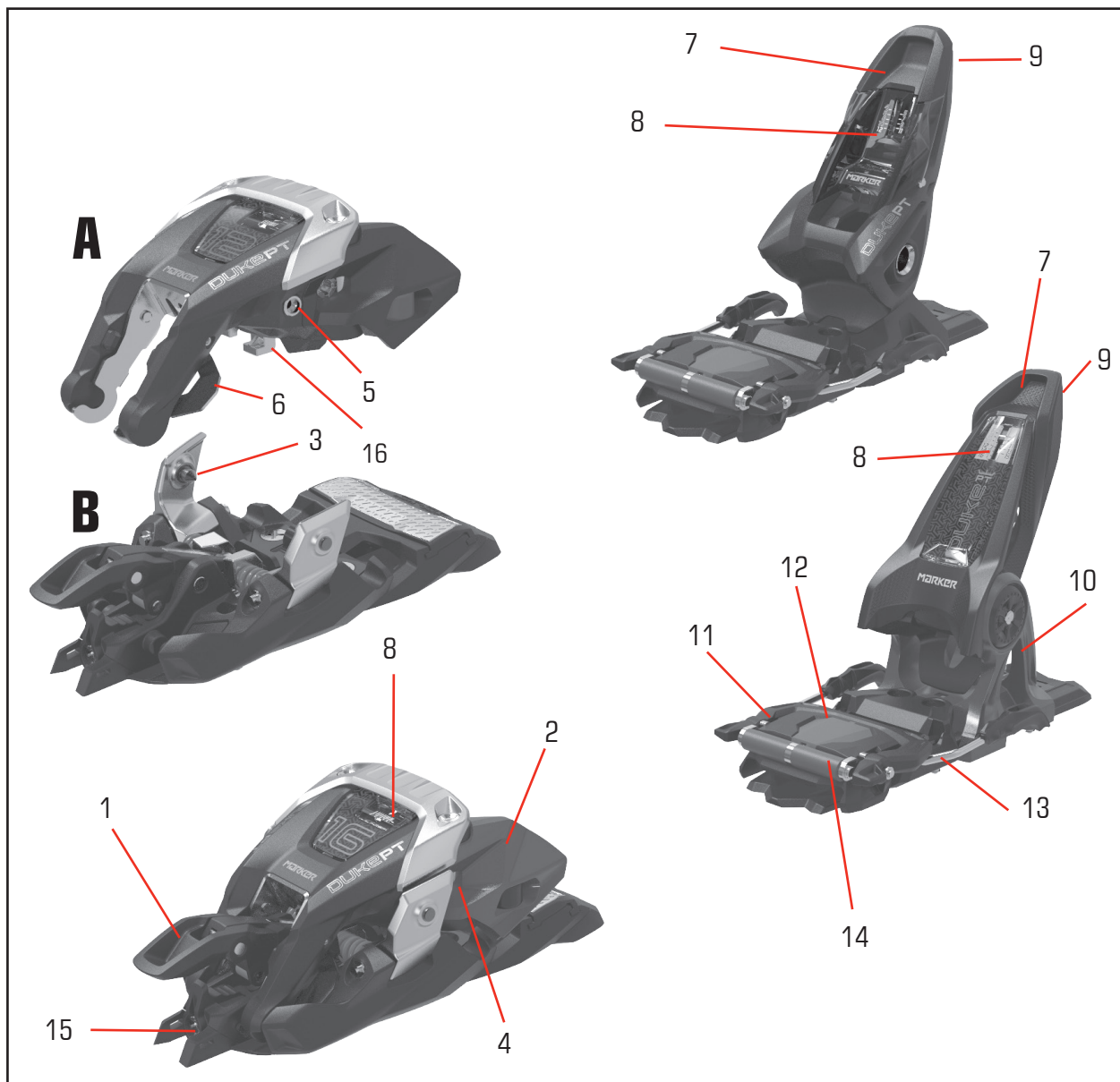
- Re - install the binding.



CAUTION !

Insert the binding screws and tighten only by hand !

4.1 MARKER DUKE PT BINDING COMPONENT DESCRIPTION



MARKER DUKE PT BINDING COMPONENTS:

- A - Toe „Ski“
- B - Toe „Walk“
- 1 - Toe opening / adjustment lever
- 2 - Sole holder toe
- 3 - Pin locking bolts
- 4 - Release force adjustment screw toe
- 5 - Toe locking axis
- 6 - Locking plate
- 7 - Heel opening lever
- 8 - Display scale for release value
- 9 - Release force adjustment screw heel
- 10 - Heel housing
- 11 - Hiking aid
- 12 - Brake pedal
- 13 - Brake arm
- 14 - Brake locking lever
- 15 - Height adjustment screw gliding AFD sole.ID
- 16 - Quad Lock

REMARK: (→ 18.3)

MARKER DUKE PT bindings meet DIN ISO 13992 and 9462 and are designed for the following standard boot soles:

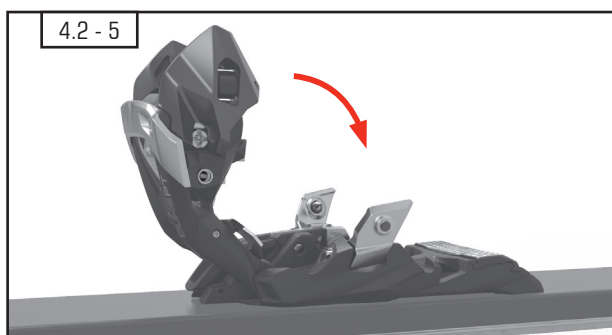
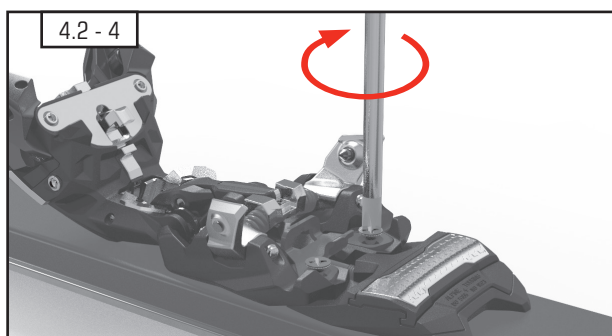
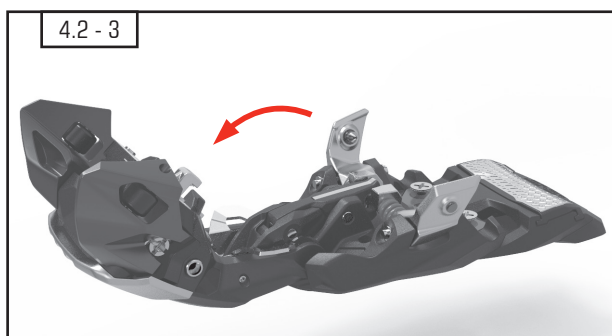
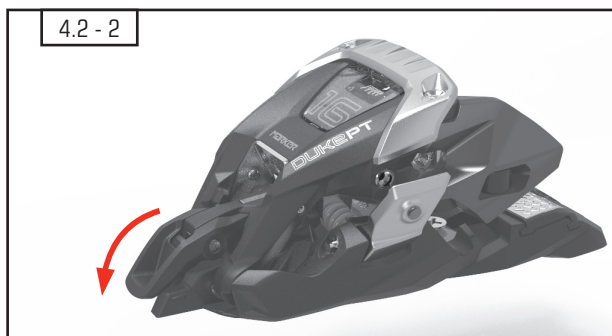
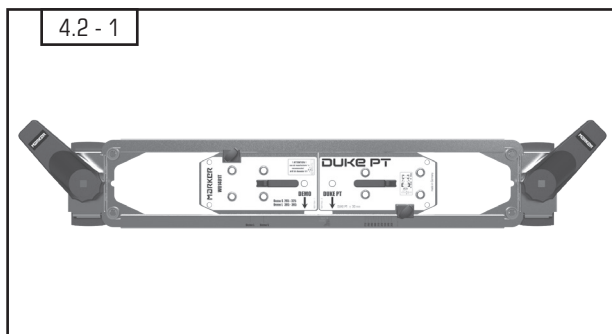
- Touring ski boots for adults DIN ISO 9523
- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"



IMPORTANT !

The DUKE PT's ascent function can only be used with boots with Tech inserts.

4.2 INSTALLATION OF MARKER DUKE PT



DRILLING THE ATTACHMENT HOLES:

IMPORTANT !



sole length	tool length adjustment
240 - 269 mm	270 mm
351 - 380 mm	350 mm

See ADJUSTMENT OF THE BINDING INSTALLATION TOOLS → 3.2

- Place the MARKER DUKE PT installation tool W014U1T in the correct position on the ski (6.2 - 1).
- Drill 4 holes for the toe through the front drill bushings.
- Drill 4 holes for the heel through the front drill bushings.
- Remove the installation tool from the ski.

REMARK: See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE TOE:

- Push the adjustment lever down with your hand and unlock the toe "Ski" (4.2 - 2)

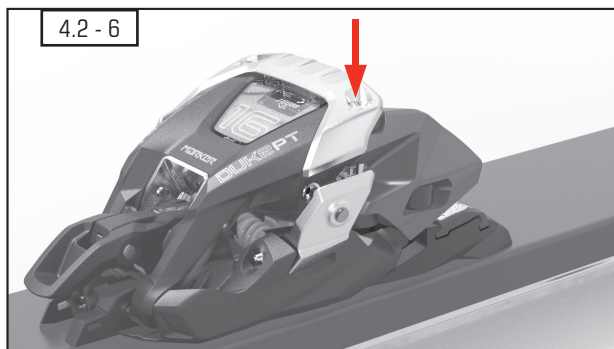
- Fold the toe "Ski" forward (4.2 - 3).

- Install the toe with the pre - installed screws in the front holes.

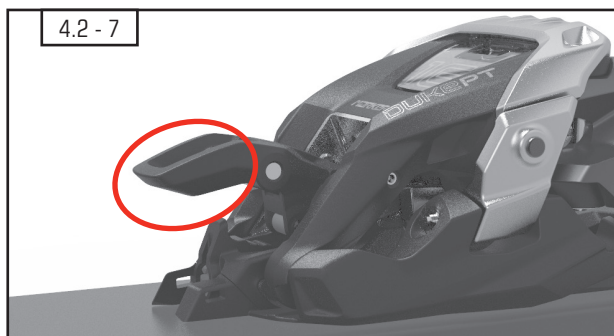
- Tighten the screws lightly, then firmly (4.2 - 4).

- Close the toe "Ski" (4.2 - 5).

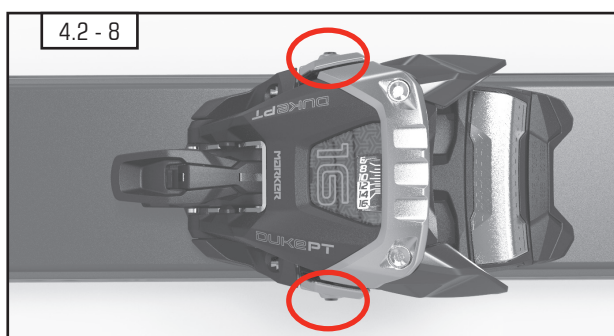
4.2 INSTALLATION OF MARKER DUKE PT



- Lock the toe "Ski" by pressing it downwards (4.2 - 6).

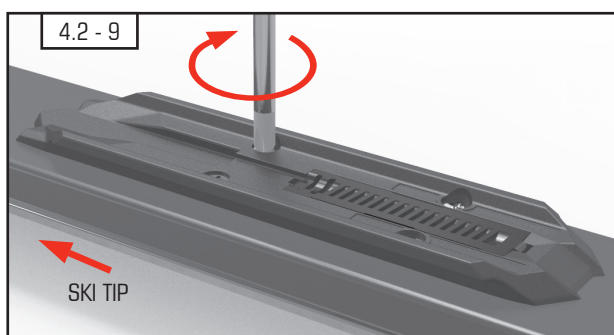


- The adjustment lever must snap into the "Ski" position and the pin locking bolts have to engage in the toe locking axis (4.2 - 7 and 4.2 - 8).



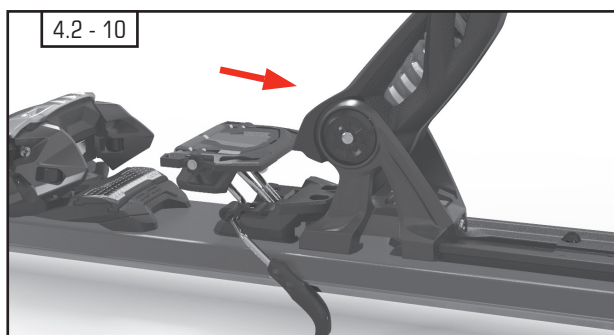
INSTALLING THE HEEL PLATE:

- Install the heel plate with the 4 pre - installed screws. Tighten the screws lightly, then firmly (4.2 - 9).



- Slide the heel onto the heel plate, starting from the front.

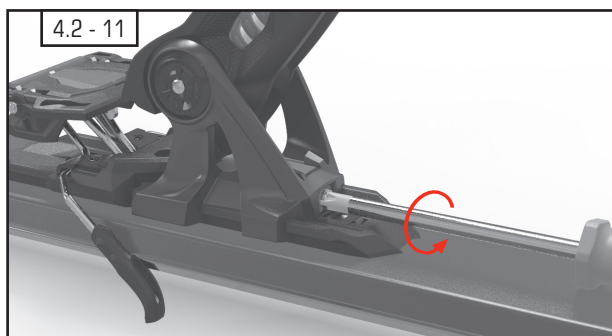
- Slide the heel back until it stops (4.2 - 10).



CAUTION !

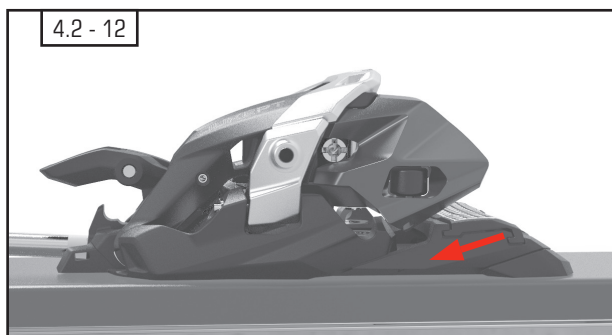
Ensure that the heel is fully and uniformly sliding onto the heel plate.

4.2 INSTALLATION OF MARKER DUKE PT



POSITIONING THE HEEL:

- Move the heel backwards by turning the forward pressure adjustment screw until the position of the heel is approximately right (4.2 - 11).



CHECK FORWARD PRESSURE:

REMARK:

In the original delivery condition the AFD gliding plate is preset for:

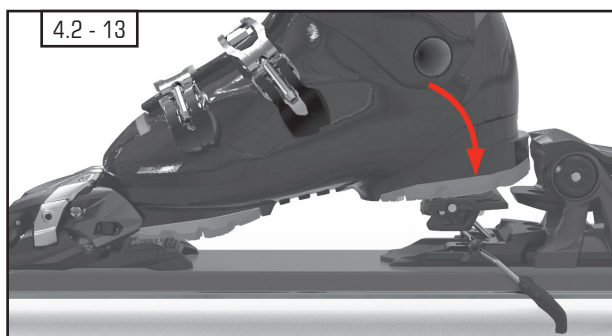
Alpine ski boots for adults according to DIN ISO 5355 and
Touring boots for adults according to DIN ISO 9523 with the additional marking "Gripwalk®".



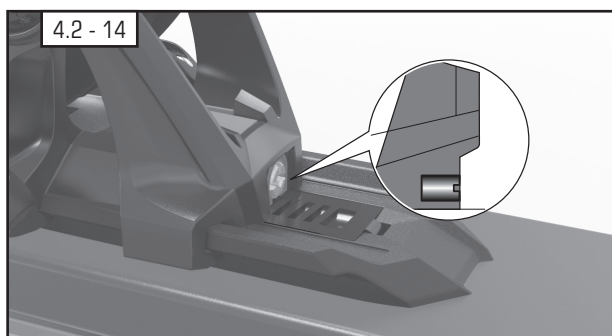
IMPORTANT !

To ensure proper engagement of the Quad Lock the AFD should initially be lowered when checking forward pressure with all standard boot soles. (4.2-12)

- Touring ski boots for adults DIN ISO 9523
- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

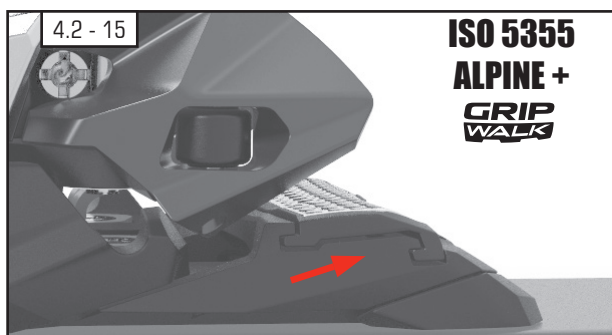


- Place the ski boot into the binding and close it (4.2 - 13).



- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing (4.2 - 14).

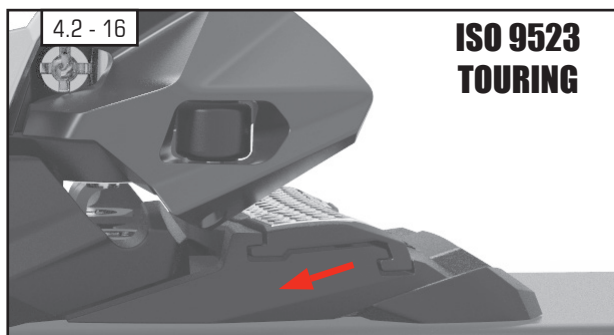
- Remove the ski boot.



AFD HEIGHT ADJUSTMENT

- The height of the AFD gliding plate must be adjusted to the height of the boot sole (4.2 - 14).
- When the gliding AFD is adjusted to the rear / upper position, the height conforms to the DIN ISO 5355 (Alpine boots) and Touring boots for adults according to DIN ISO 9523 with the additional marking "Gripwalk®" (4.2 - 15).

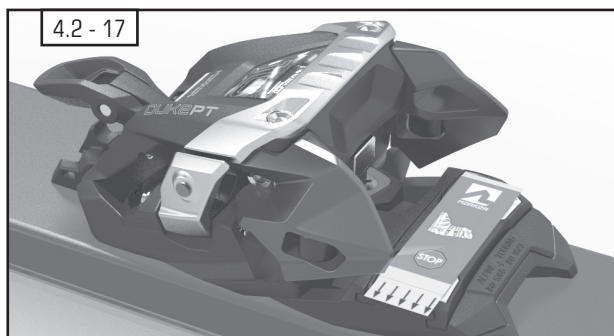
4.2 INSTALLATION OF MARKER DUKE PT



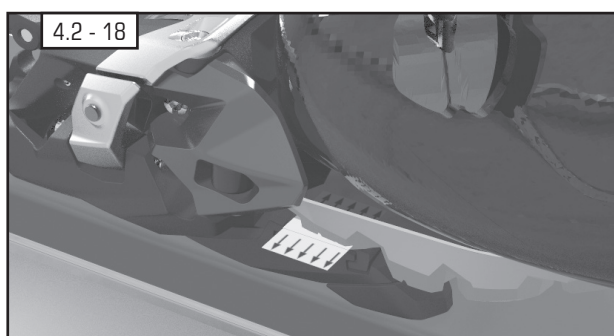
- When the gliding AFD is adjusted to the front / lower position, the height conforms to the DIN ISO 9523 (Touring boots) (4.2 - 16).

REMARK:

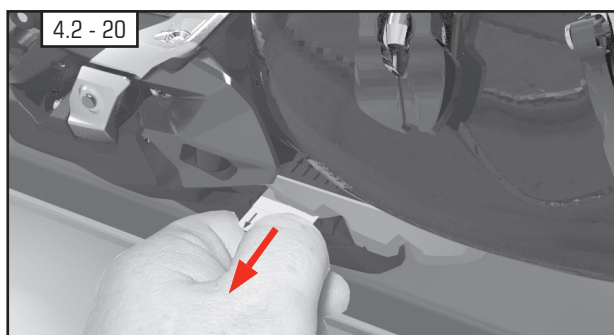
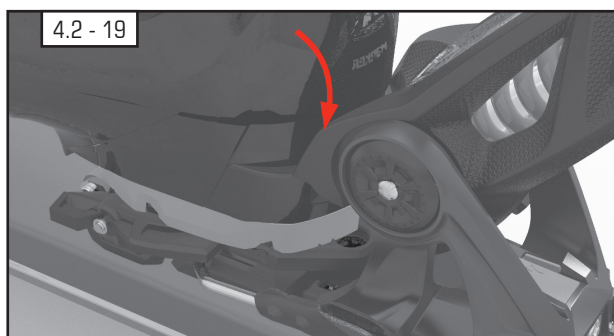
When mounting the toe to the height adjustment "touring" make sure that you fit the enclosed "Touring" indication sticker to the ski.



- Place the height test strip on the gliding AFD with the red marked side up (4.2 - 17).

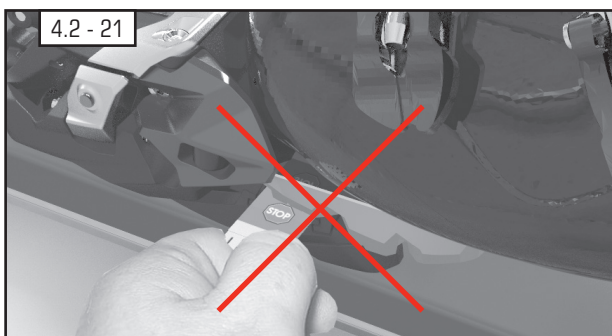


- Place the ski boot into the binding and close it. (4.2 - 18 and 4.2 - 19)

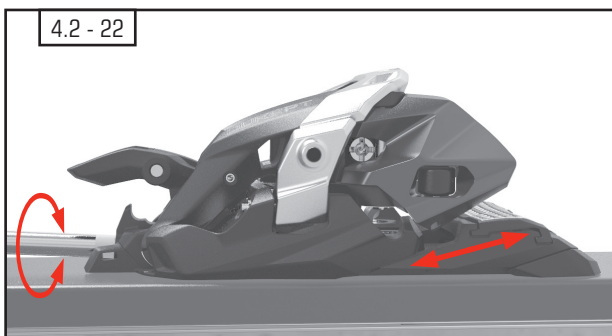


- Pull out the lower part of the test strip carefully (4.2 - 20).

4.2 INSTALLATION OF MARKER DUKE PT



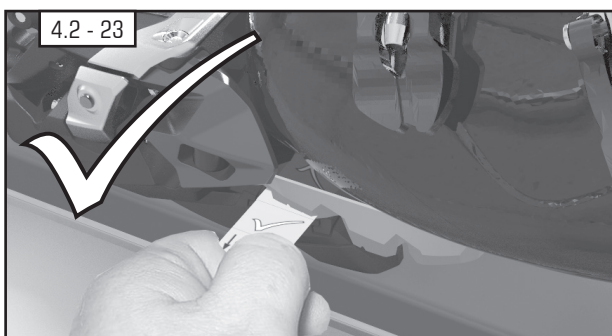
- Stop if the complete test strip moves and the red marked area becomes visible, the gap between gliding AFD and boot sole is not correct (4.2 - 21).



- Adjust the height of the gliding AFD by turning the adjustment screw (4.2 - 22) so that you can pull out the green marked lower part of the test strip just before it tears (4.2 - 23 and 4.2 - 24).

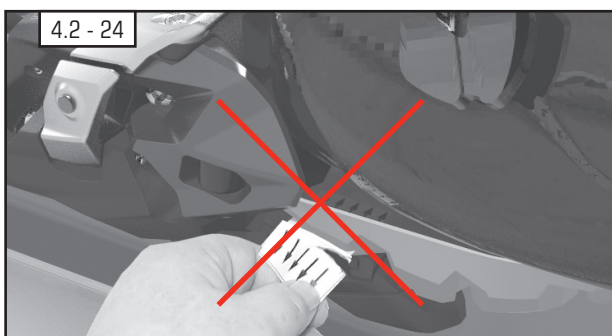
Turning the adjustment screw clockwise moves the AFD gliding plate down.

Turning the adjustment screw counterclockwise moves the AFD gliding plate up.



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing (4.2 - 25).
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.

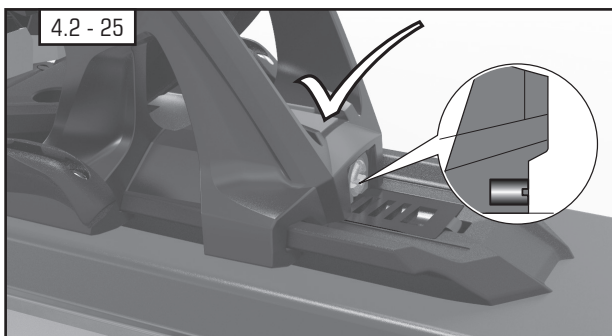


RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

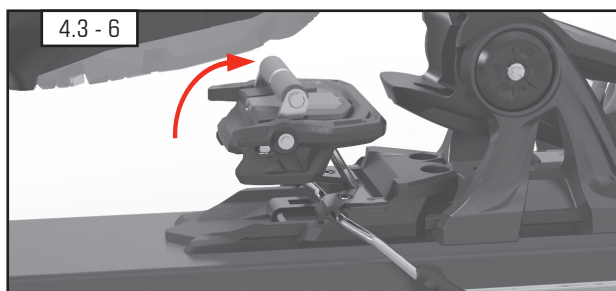
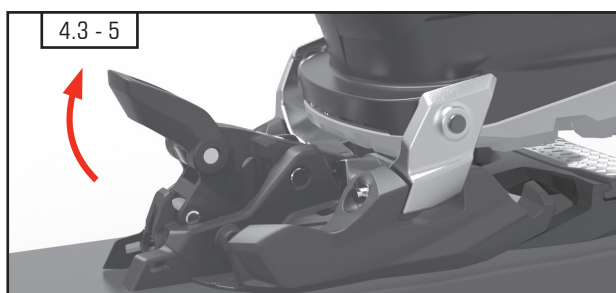
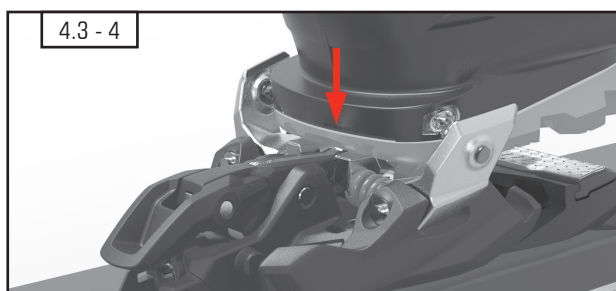
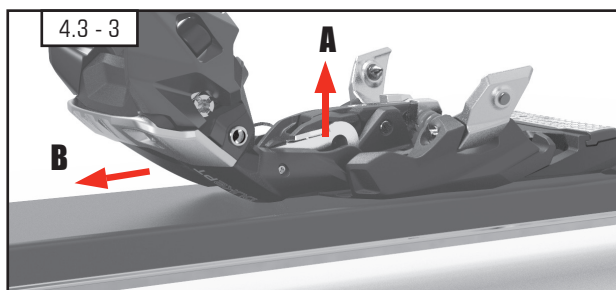
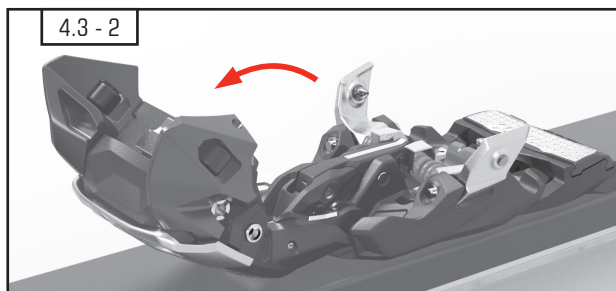
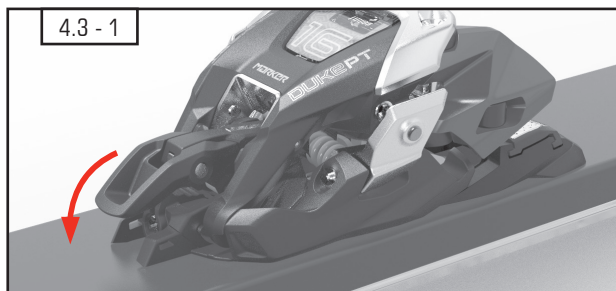
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

4.3 MARKER DUKE PT - INFORMATIONS FOR THE SKIER



In addition to the system explanations → 15.1 - 15.4, the following instructions must be given to the intended user of a MARKER DUKE PT binding:



IMPORTANT !

The DUKE PT's ascent function can only be used with boots with Tech inserts.

CHANGE OVER FROM SKIING TO HIKING POSITION

- There is an adjusting lever at the front end of the toe. To switch from the descent position to ascent mode in order to walk with the binding, step out of the binding, push the adjustment lever down with your hand or ski pole and unlock toe "Ski" (4.3 - 1).
- Fold toe "Ski" forward until it rests on the ski surface and engages (4.3 - 2).
- For longer ascents, toe "Ski" can be removed by lifting the locking plate and pulling toe "Ski" forward from toe B "Walk" (4.3 - 3).



IMPORTANT !

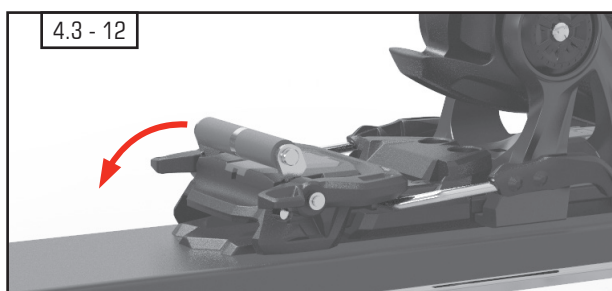
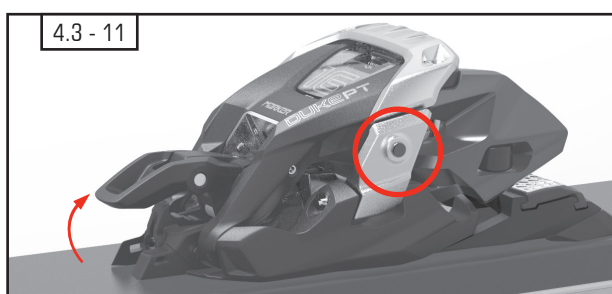
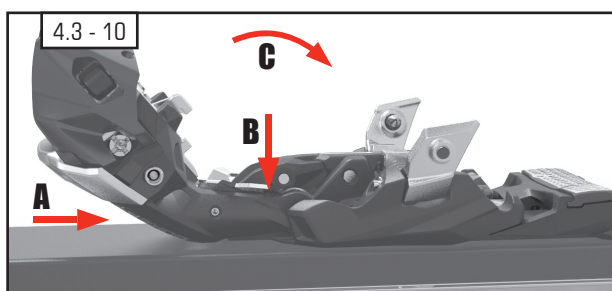
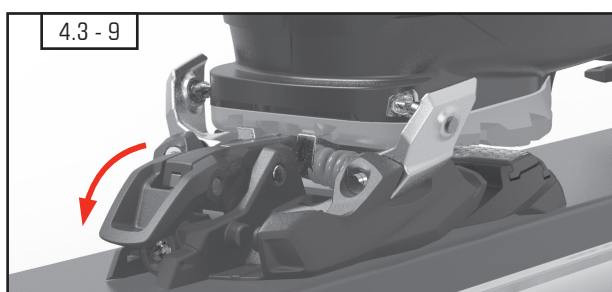
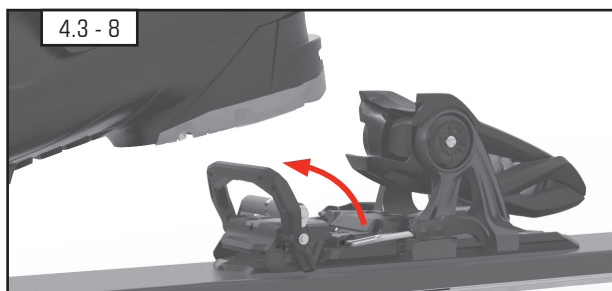
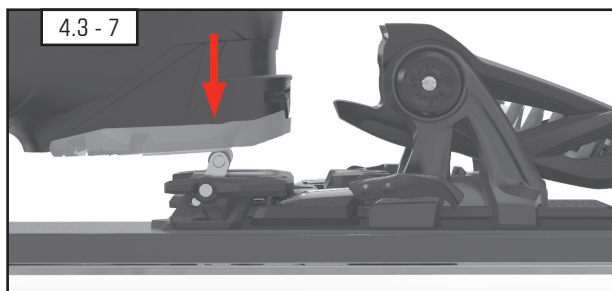
The DUKE PT binding model has removable parts (toe "Ski"), which are absolutely necessary for a descent with the binding. Therefore, make sure that you store these parts securely so they cannot be lost after you have removed them.

- Clear snow, ice and dirt from the sole of your ski boot and the Tech inserts before stepping into the binding.
- Position the tip of the ski boot between the pins on the toe. Then press the tip of the boot down and step into the toe until the pins are locked fully into position in the insert (4.3 - 4).
- To lock the toe pull the toe lever upwards (4.3 - 5). Move the locked boot back and forth several times to ensure that boot and binding are securely connected.

CHANGING THE BRAKE OVER FROM DESCENT TO ASCENT POSITION

- Swivel the brake locking lever upwards as far as it will go (4.3 - 6).

4.3 MARKER DUKE PT - INFORMATIONS FOR THE SKIER



- The brake is engaged by hand by pushing the brake pedal down or by stepping down on the pedal when stepping in (4.3 - 7).

USING THE HIKING AID

- In ascent mode, the hiking aid can be used. Swivel the hiking aid forwards/upwards into the 10° ascent position with your hand or ski pole (4.3 - 8).

CHANGE OVER FROM HIKING TO SKIING POSITION

NOTE:

When changing over from hiking to skiing mode, the binding must be freed from snow, ice and dirt !

- To step out of toe "Walk", press down the adjustment lever on the toe with your ski pole, hand or ski boot and slightly lift the tip of the ski boot (4.3 - 9).
- When toe "Ski" has been removed, push toe "Ski" from the front onto toe "Walk". The locking plate must be pressed down completely by hand and closed (4.3 - 10).
- Swivel toe "Ski" towards the back until it engages noticeably and the pin locking bolts engage in the toe locking axis. The adjustment lever must snap into the "Ski" position (4.3 - 11).

CHANGING THE BRAKE OVER FROM ASCENT TO DESCENT POSITION

- To release the brake, swivel the brake locking lever forwards/downwards (4.3 - 12).

NOTE:

It is recommended to remove the skins from the ski only after disengaging the brake.

DUKE PT CRAMPONS:

MARKER offers special crampons for the DUKE PT models:

Crampons DUKE PT 105 mm (ski width → 105 mm) Art. Nr.: H006U1R

Crampons DUKE PT 125 mm (ski width 105-125 mm) Art. Nr.: H007U1R

Installation of the crampons: see → 16.5

5.1 INSTALLATION OF MARKER BARON EPF



MARKER BARON EPF:

MARKER BARON EPF small: 265 mm - 325 mm

MARKER BARON EPF large: 305 mm - 365 mm



CAUTION !

The hole pattern for the MARKER BARON EPF binding deviates from ISO 8364

(lateral hole spacing = 46 mm)

Please take care to ensure that you use only the installation tool EPF, W006M1T.

This hole spacing has been agreed with the following ski manufacturers, to ensure screw pull-out resistance values comply with ISO 8364: Völkl, K 2, Nordica, Blizzard, Movement, Line. For other brands of skis, please contact your ski manufacturer directly.

REMARK: (→ 18.3)

MARKER BARON EPF bindings meet DIN ISO 13992 and 9462 and are designed for the following standard boot soles:

- Touring ski boots for adults DIN ISO 9523
- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

DRILLING THE ATTACHMENT HOLES:

- Place the MARKER EPF installation tool W006M1T (5.1 - 1) in the correct position on the ski.
- Drill 5 holes for the front plate through the front drill bushings.
- MARKER BARON EPF small:
Drill 4 holes for the heel plate through the rear silver drill bushings.
- MARKER BARON EPF large:
Drill 4 holes for the heel plate through the rear black drill bushings.
- Remove the installation tool from the ski.

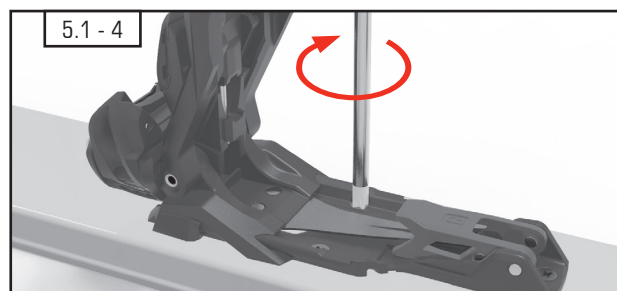
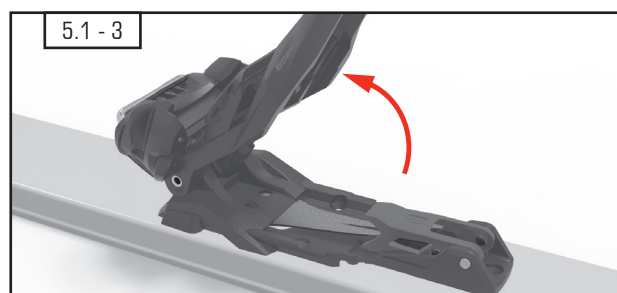
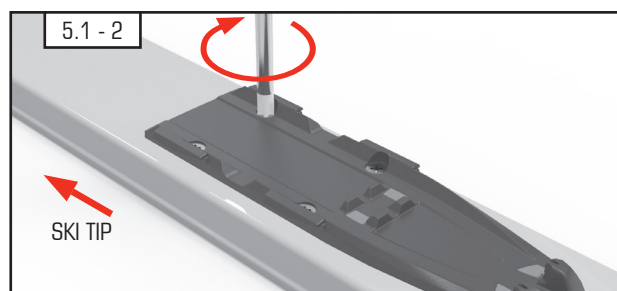
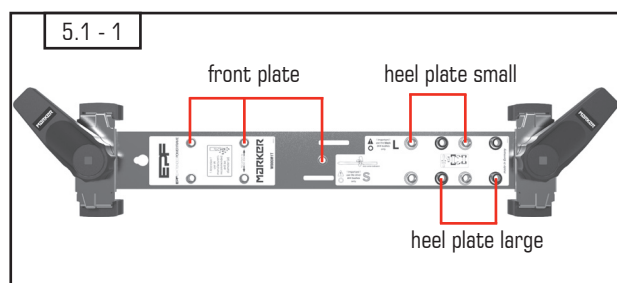
REMARK: See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE HEEL PLATE:

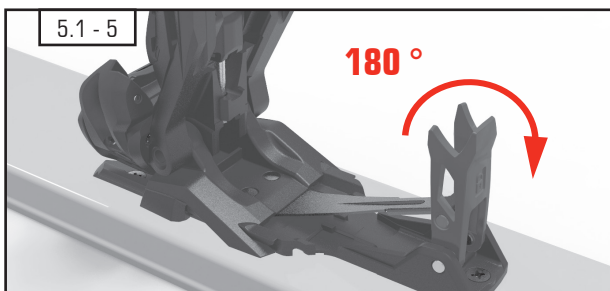
- Install the heel plate with the 4 pre - installed screws. Tighten the screws lightly, then firmly (5.1 - 2).

INSTALLING THE TOE:

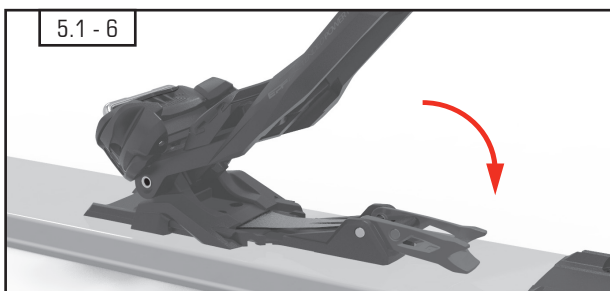
- Open the binding and install the front plate with the 3 pre - installed screws. Tighten the screws lightly, then firmly (5.1 - 3 and 5.1 - 4).



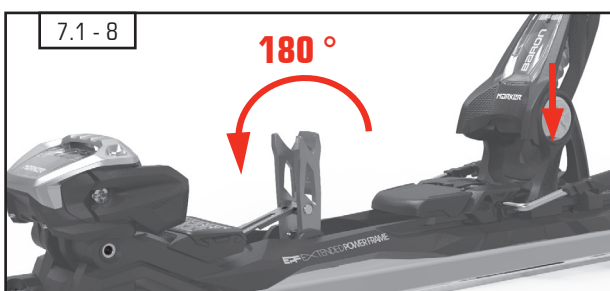
5.1 INSTALLATION OF MARKER BARON EPF



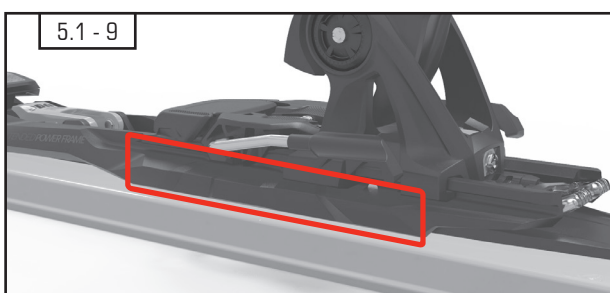
- Switch the engagement lever to the unlocked position (5.1 - 5) and lower the binding afterwards (5.1 - 6).



- Insert and tighten the 2 front screws (5.1 - 7).

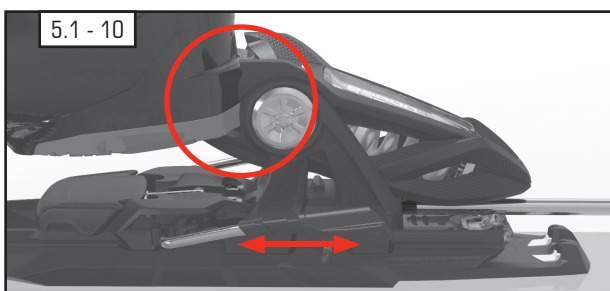


- Press down the BCT plate and switch the engagement lever to the locked position (5.1 - 8). Check that the BCT plate is fully and uniformly sliding into the heel plate attachments.



CAUTION !

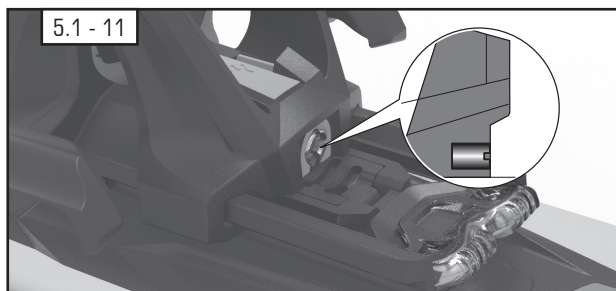
Ensure that the BCT plate is fully and uniformly sliding into the heel plate attachments when the BCT engagement lever is closed. (5.1 - 9)



POSITIONING THE HEEL:

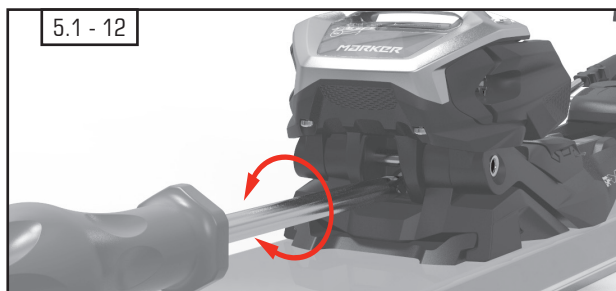
- Place the ski boot into the binding and turn the adjustment screw until the position of the heel is approximately right. (5.1 - 10)

5.1 INSTALLATION OF MARKER BARON EPF



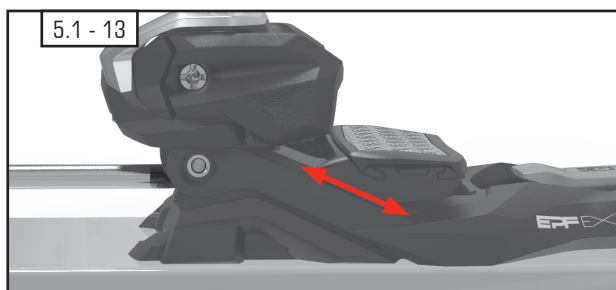
CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing. (5.1 - 11)
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot



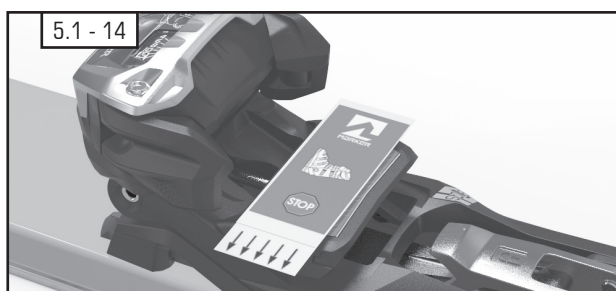
AFD HEIGHT ADJUSTMENT:

The height of the AFD gliding plate must be adjusted to the height of the boot sole.



REMARK:

In the original delivery condition the AFD gliding plate is adjusted to the alpine ski boot norm.

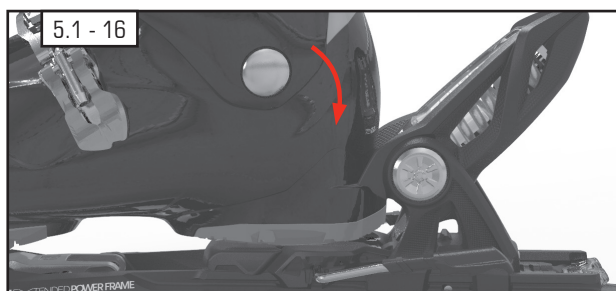


Turning the adjustment screw clockwise moves the AFD gliding plate up.

Turning the adjustment screw counterclockwise moves the AFD gliding plate down. (5.1 - 12 and 5.1 - 13)

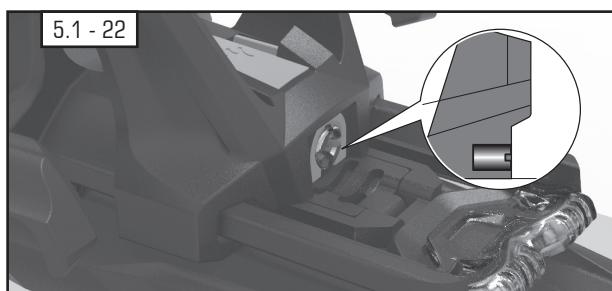
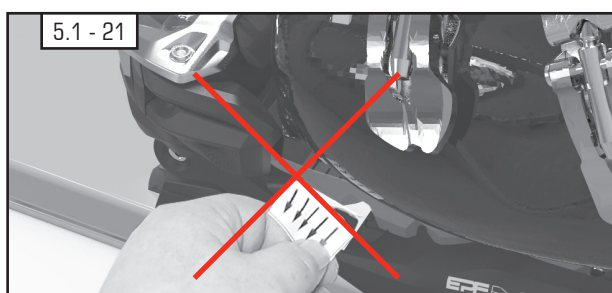
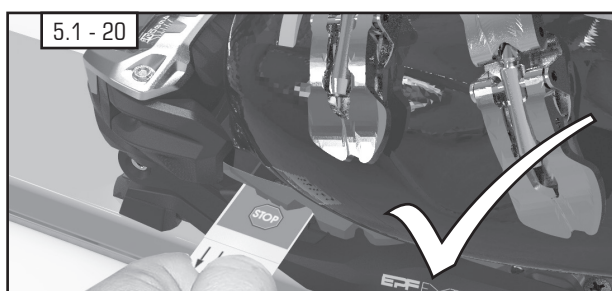
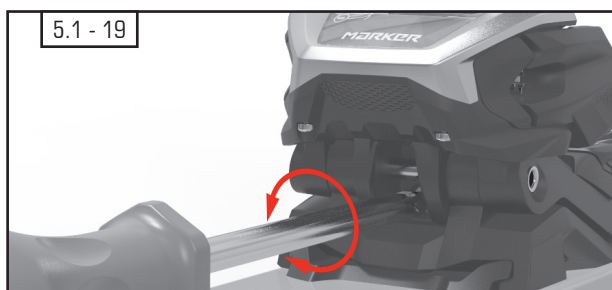
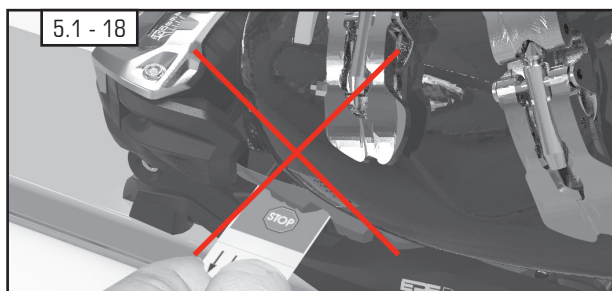
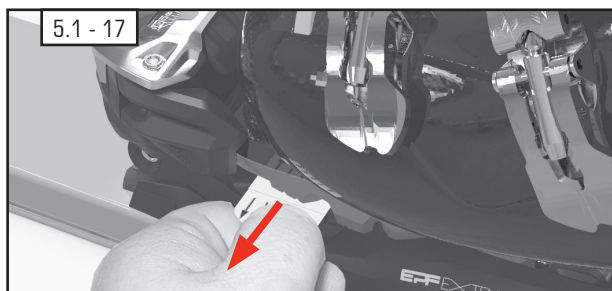


- Place the height test strip on the gliding AFD with the red marked side up. (5.1 - 14 and 5.1 - 15)



- Place the ski boot into the binding and close it. (5.1 - 16)

5.1 INSTALLATION OF MARKER BARON EPF



- Pull out the lower part of the test strip carefully. (5.1 - 17)
- Stop if the complete test strip moves and the red marked area becomes visible, the gap between gliding AFD and boot sole is not correct. (5.1 - 18)
- Adjust the height of the gliding AFD by turning the adjustment screw (5.1 - 19) so that you can pull out the green marked lower part of the test strip just before it tears (5.1 - 20 and 5.1 - 21).



CAUTION !

Ski boots with overdimensioned soles should be modified by a specialty retailer !

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing (5.1 - 22).
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

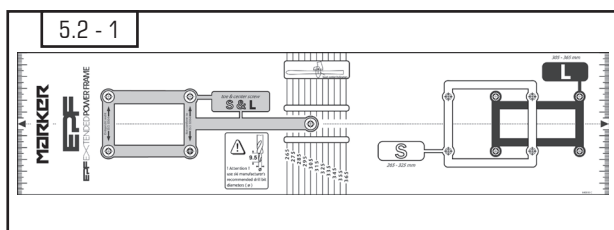


IMPORTANT !

See INFORMATION FOR THE SKIER

→ 15.4 → 15.6 → 15.8

5.2 INSTALLATION OF MARKER F 12 TOUR EPF



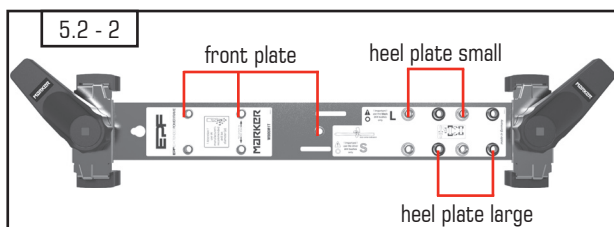
CAUTION !

The hole pattern for the MARKER F 12 TOUR EPF binding deviates from ISO 8364

(lateral hole spacing = 46 mm)

Please take care to ensure that you use only the enclosed paper drilling jig (5.2 - 1) or the installation tool EPF, W006M1T (5.2 - 2).

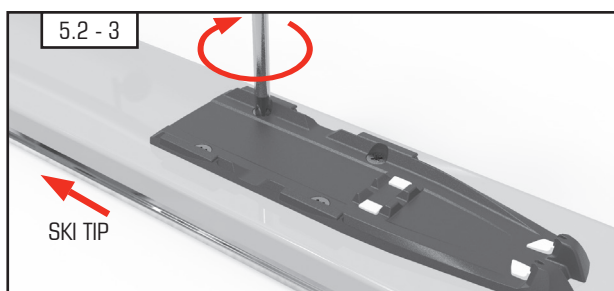
This new hole spacing has been agreed with the following ski manufacturers, to ensure screw pull-out resistance values comply with ISO 8364: Völkl, K 2, Nordica, Blizzard, Movement, Line. For other brands of skis, please contact your ski manufacturer directly.



MARKER TOUR F 12 EPF:

MARKER F 12 Tour EPF small: 265 mm - 325 mm

MARKER F 12 Tour EPF large: 305 mm - 365 mm



REMARK:

MARKER F 12 Tour EPF bindings meet DIN ISO 13992 and 9462 and are designed for the following standard boot soles:

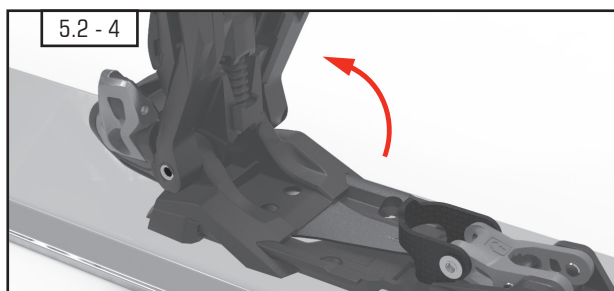
- Touring ski boots for adults DIN ISO 9523
- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

DRILLING THE ATTACHMENT HOLES:

- Place the MARKER EPF installation tool W006M1T (5.2 - 2) in the correct position on the ski.
- Drill 5 holes for the front plate through the front drill bushings.
- MARKER F 12 Tour EPF small:
Drill 4 holes for the heel plate through the rear silver drill bushings.
- MARKER F 12 Tour EPF large:
Drill 4 holes for the heel plate through the rear black drill bushings.
- Remove the installation tool from the ski.

REMARK:

See DRILLING INSTRUCTIONS → 3.2

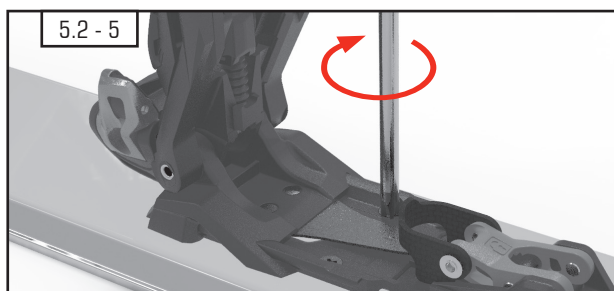


INSTALLING THE HEEL PLATE:

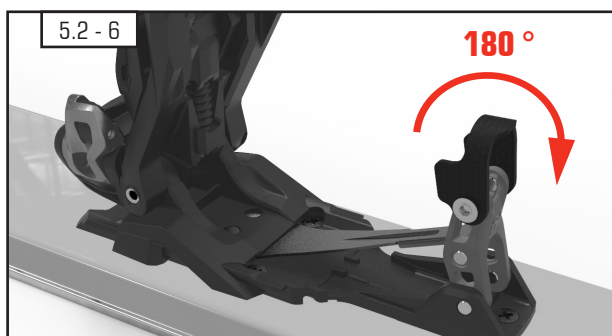
- Install the heel plate with the 4 pre - installed screws. Tighten the screws lightly, then firmly (5.2 - 3).

INSTALLING THE TOE:

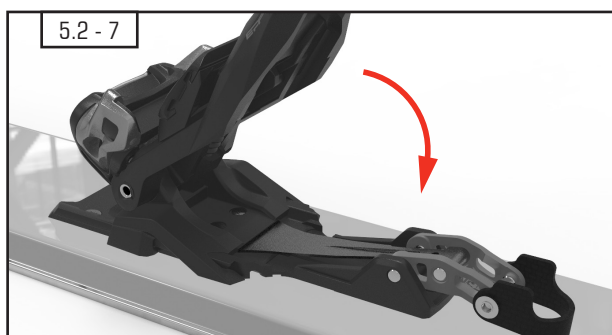
- Open the binding and install the front plate with the 3 pre - installed screws. Tighten the screws lightly, then firmly (5.2 - 4 and 5.2 - 5).



5.2 INSTALLATION OF MARKER F 12 TOUR EPF



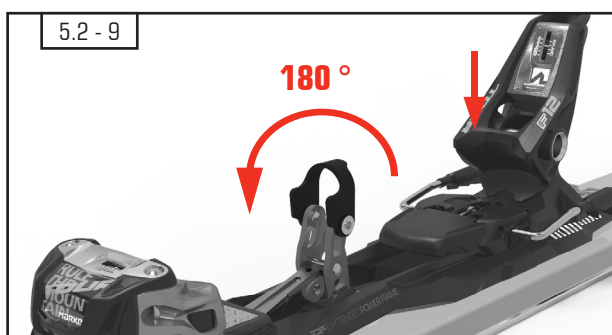
- Switch the TOUR engagement lever to the unlocked position (5.2 - 6)



- and lower the binding afterwards (5.2 - 7).



- Insert and tighten the 2 front screws (5.2 - 8).



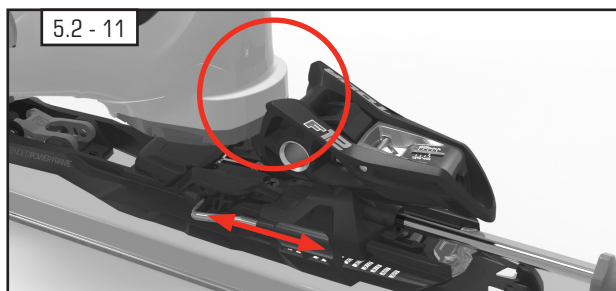
- Press down the TOUR plate and switch the engagement lever to the locked position (5.2 - 9). Check that the TOUR plate is fully and uniformly sliding into the heel plate attachments.



CAUTION !

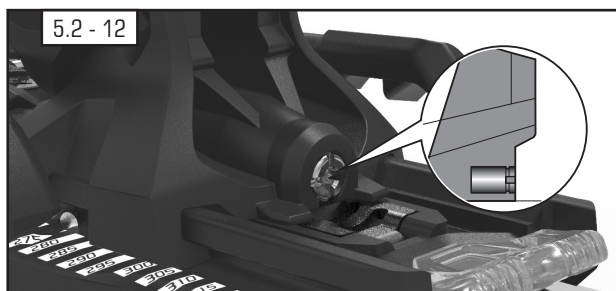
Ensure that the TOUR plate is fully and uniformly sliding into the heel plate attachments when the engagement lever is closed (5.2 - 10).

5.2 INSTALLATION OF MARKER F 12 TOUR EPF



POSITIONING THE HEEL:

- Place the ski boot into the binding and turn the adjustment screw until the position of the heel is approximately correct (5.2 - 11).

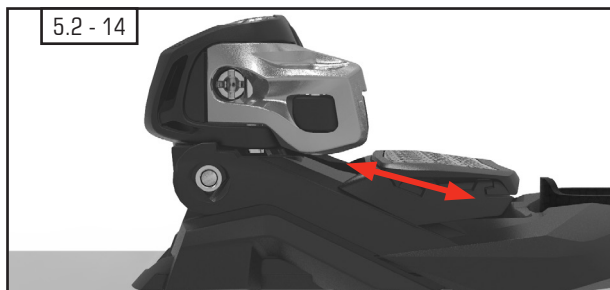


CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing (5.2 - 12). If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot

MARKER TOUR AFD HEIGHT ADJUSTMENT:

The height of the AFD gliding plate must be adjusted to the height of the boot sole.



Turning the adjustment screw clockwise moves the AFD gliding plate up.

Turning the adjustment screw counterclockwise moves the AFD gliding plate down (5.2 - 13 / 5.2 - 14).

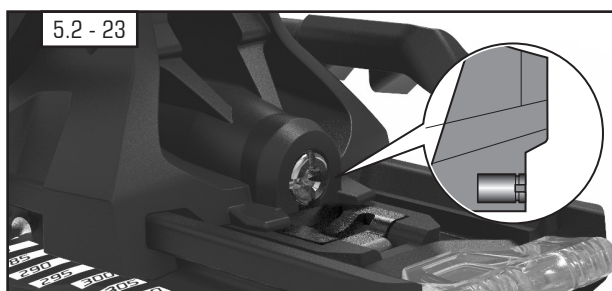
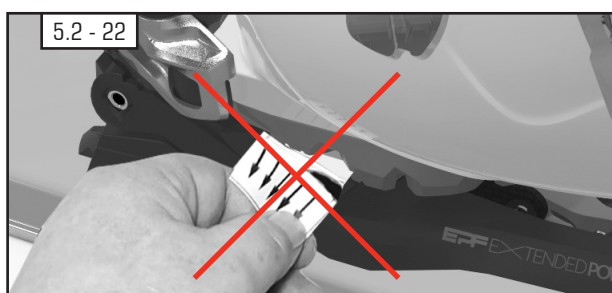
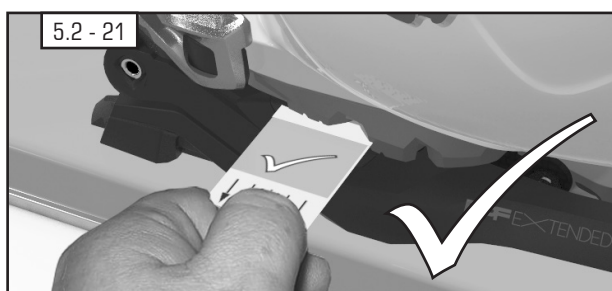
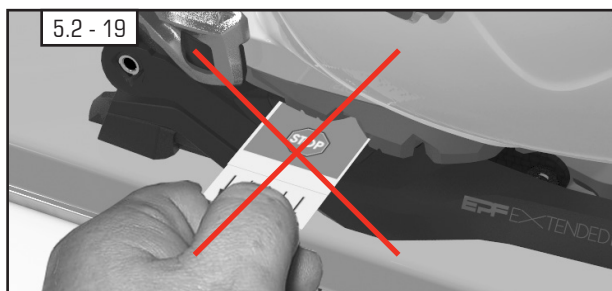
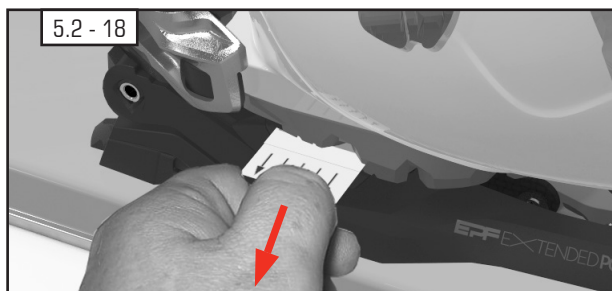


- Place the height test strip on the gliding AFD with the red marked side up (5.2 - 15 and 5.2 - 16).



- Place the ski boot into the binding and close it (5.2 - 17).

5.2 INSTALLATION OF MARKER F12 TOUR EPF



- Pull out the lower part of the test strip carefully. (5.2 - 18)
- Stop if the complete test strip moves and the red marked area becomes visible, the gap between gliding AFD and boot sole is not correct. (5.2 - 19)
- Adjust the height of the gliding AFD by turning the adjustment screw (5.2 - 20) so that you can pull out the green marked lower part of the test strip just before it tears (5.2 - 21 and 5.2 - 22).



CAUTION !

Ski boots with over dimensioned soles should be modified by a specialty retailer !

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing. (5.2 - 23)
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3



IMPORTANT !

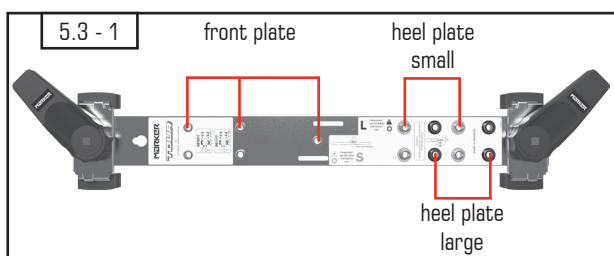
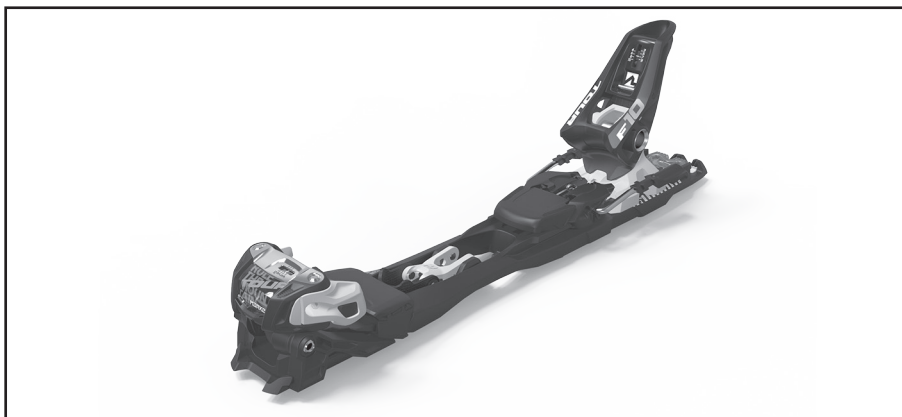
See INFORMATION FOR THE SKIER

→ 15.4

→ 15.5

→ 15.8

5.3 INSTALLATION OF MARKER F 10 TOUR



MARKER F 10 TOUR:

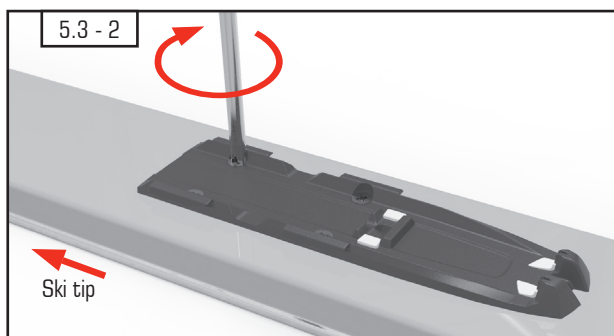
MARKER F 10 TOUR small: 265 mm - 325 mm

MARKER F 10 TOUR large: 305 mm - 365 mm

REMARK:

MARKER F 10 TOUR bindings meet DIN ISO 13992 and 9462 and are designed for the following standard boot soles:

- Touring ski boots for adults DIN ISO 9523
- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

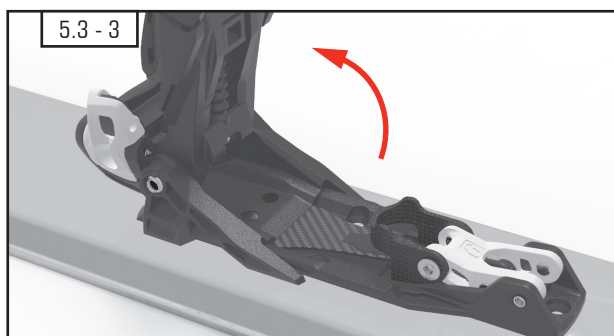


DRILLING THE ATTACHMENT HOLES:

- Place the MARKER TOUR installation tool W010G1T or W011J1T (5.3 - 1) in the correct position on the ski.
- Drill 5 holes for the front plate through the front drill bushings.
- MARKER TOUR small:
Drill 4 holes for the heel plate through the rear silver drill bushings.
- MARKER TOUR large:
Drill 4 holes for the heel plate through the rear black drill bushings.
- Remove the installation tool from the ski.

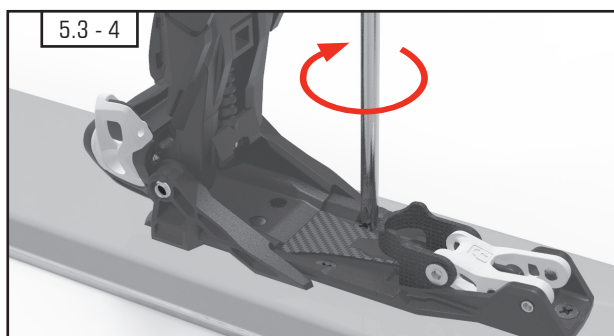
REMARK:

See DRILLING INSTRUCTIONS → 3.2



INSTALLING THE HEEL PLATE:

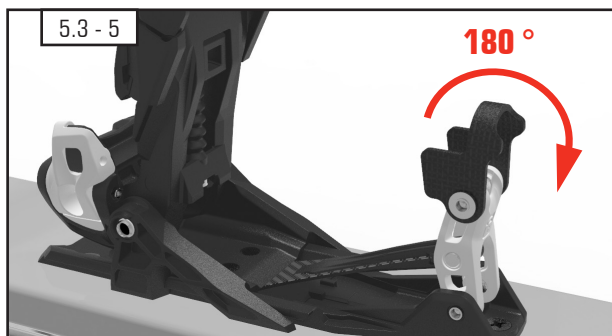
- Install the MARKER TOUR heel plate with the 4 pre - installed screws. (5.3 - 2)



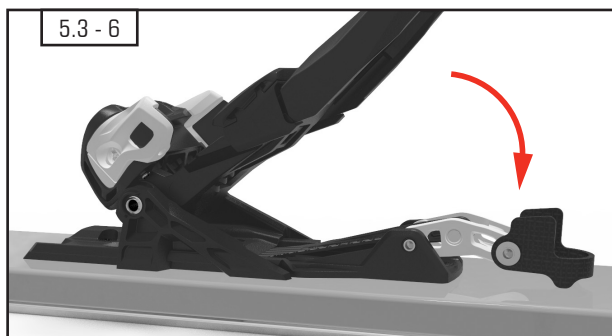
INSTALLING THE TOE:

- Open the binding and install the front plate with the 3 pre - installed screws (5.3 - 3 / 5.3 - 4).

5.3 INSTALLATION OF MARKER F10 TOUR



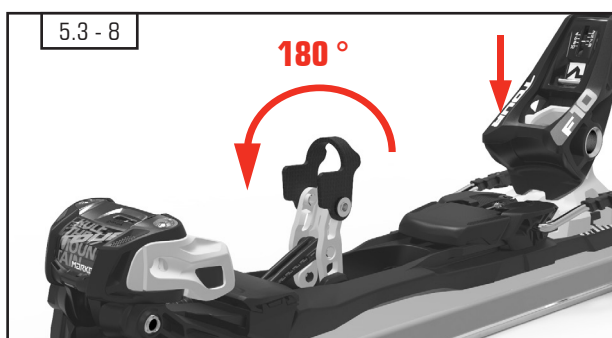
- Switch the TOUR engagement lever to the unlocked position (5.3 - 5)



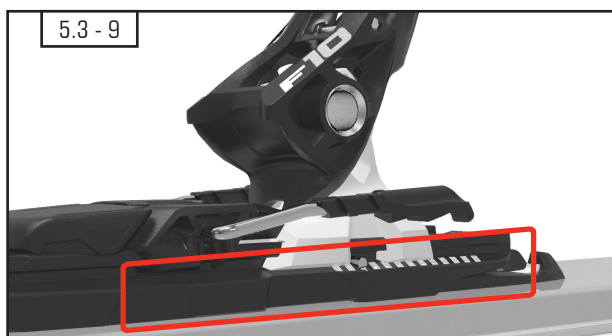
- and lower the binding afterwards (5.3 - 6).



- Insert and tighten the 2 front screws (5.3 - 7).



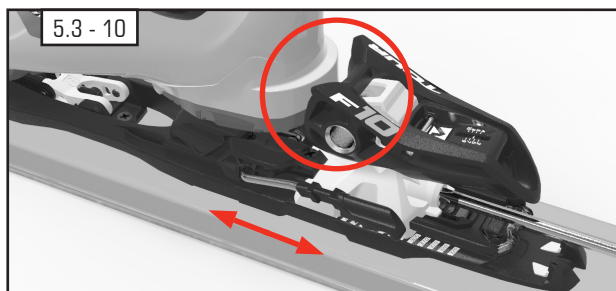
- Press down the TOUR plate and switch the engagement lever to the locked position (5.3 - 8). Check that the TOUR plate is fully and uniformly sliding into the heel plate attachments.



CAUTION !

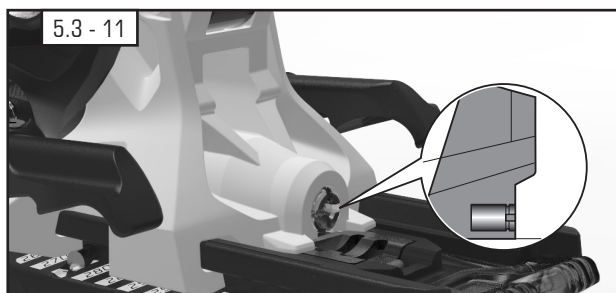
Ensure that the TOUR plate is fully and uniformly sliding into the heel plate attachments when the engagement lever is closed (5.3 - 9).

5.3 INSTALLATION OF MARKER F10 TOUR



POSITIONING THE HEEL:

- Place the ski boot into the binding and turn the adjustment screw until the position of the heel is approximately right (5.3 - 10).

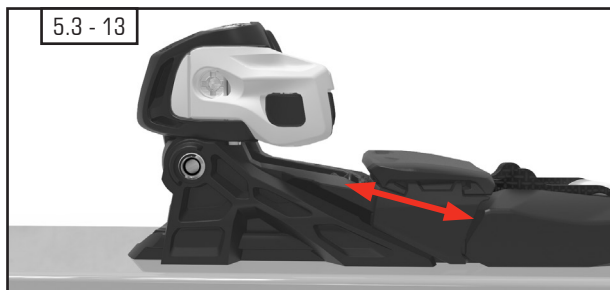


CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing (5.3 - 11).
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot

MARKER TOUR AFD HEIGHT ADJUSTMENT:

The height of the AFD gliding plate must be adjusted to the height of the boot sole.

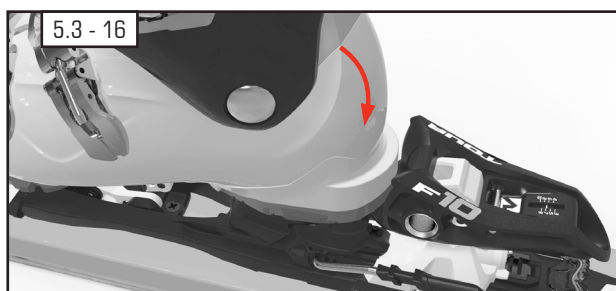


Turning the adjustment screw clockwise moves the AFD gliding plate up.

Turning the adjustment screw counterclockwise moves the AFD gliding plate down (5.3 - 12 / 5.3 - 13).

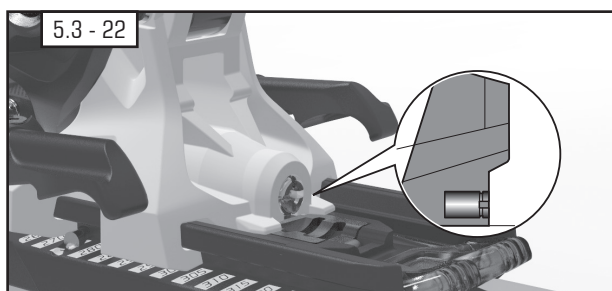
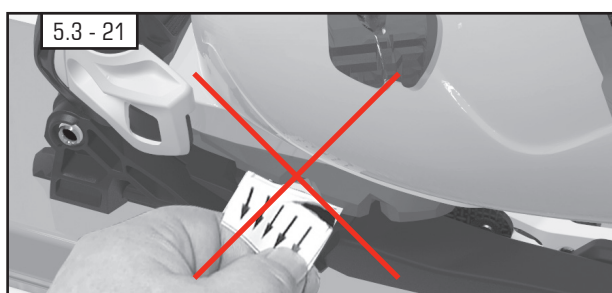
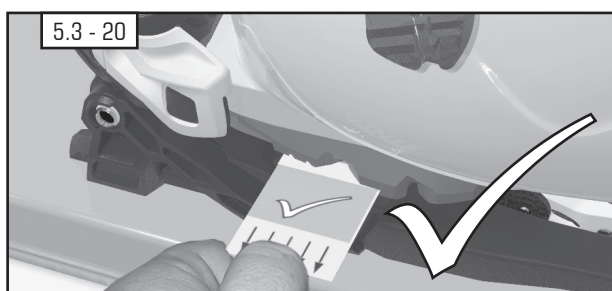
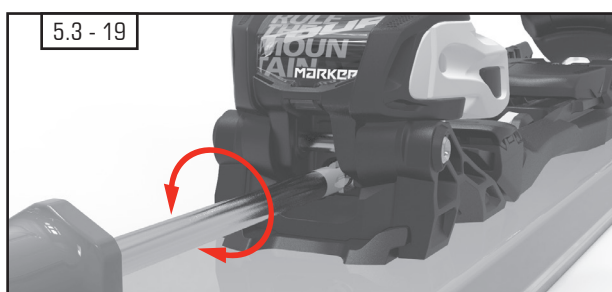
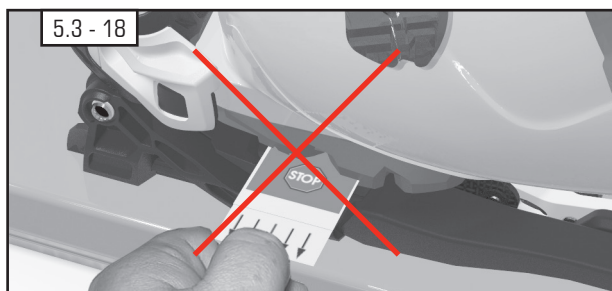
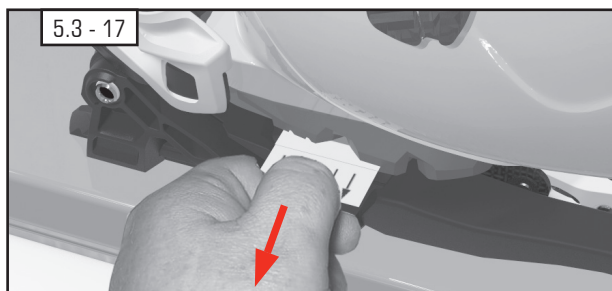


- Place the height test strip on the gliding AFD with the red marked side up (5.3 - 14 and 5.3 - 15).



- Place the ski boot into the binding and close it (5.3 - 16).

5.3 INSTALLATION OF MARKER F10 TOUR



- Pull out the lower part of the test strip carefully. (5.3 - 17)
- Stop if the complete test strip moves and the red marked area becomes visible, the gap between gliding AFD and boot sole is not correct. (5.3 - 18)
- Adjust the height of the gliding AFD by turning the adjustment screw (5.3 - 19) so that you can pull out the green marked lower part of the test strip just before it tears (5.3 - 20 and 5.3 - 21).



CAUTION !

Ski boots with overdimensioned soles should be modified by a specialty retailer !

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing. (5.3 - 22)
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3



IMPORTANT !

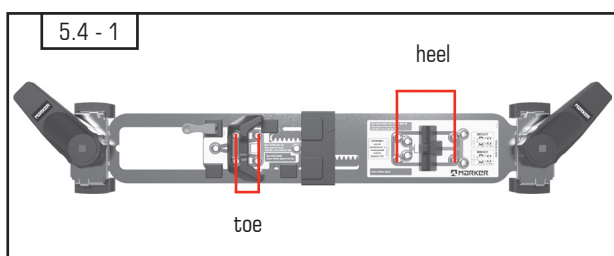
See INFORMATION FOR THE SKIER

→ 15.4

→ 15.5

→ 15.7

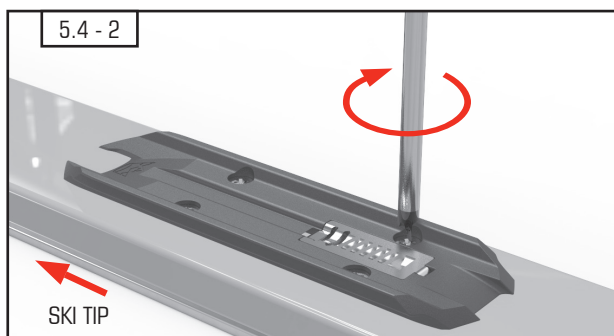
5.4 INSTALLATION OF MARKER JESTER PRO ID & JESTER ID & GRIFFON ID & SQUIRE ID



REMARK: (→ 18.3)

The binding models "sole.ID" are designed for the following standard boot soles:

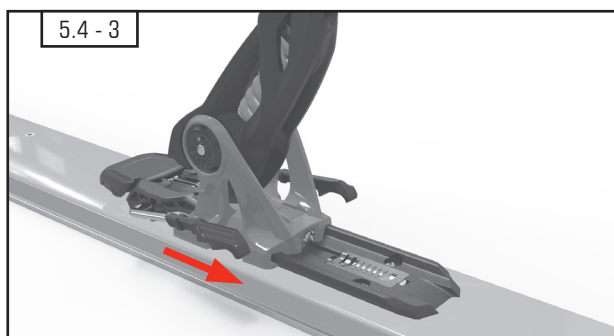
- Touring ski boots for adults DIN ISO 9523
- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"



DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF THE BINDING INSTALLATION TOOLS
→ 3.2

- Place the MARKER universal installation tool W001G1T or W012J1T (5.4 - 1) in the correct position on the ski.
- Drill 4 holes for the front plate (toe) through the red marked drill bushings.
- Drill 4 holes for the heel plate (heel) through the red marked drill bushings
- Remove installation tool from the ski.

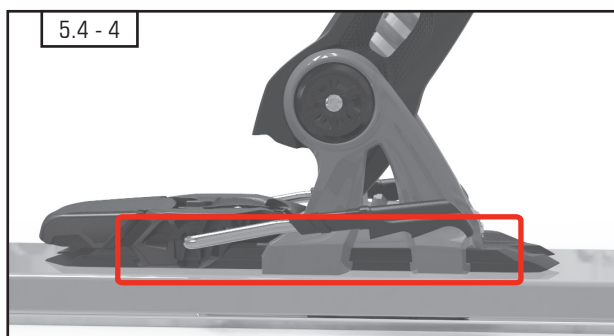


REMARK:

See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE HEEL :

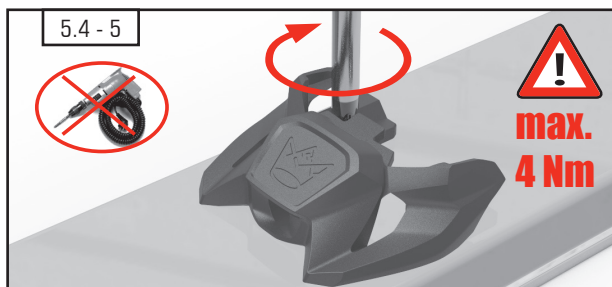
- Install the heel plate with the 4 pre - installed screws (5.4 - 2). Tighten the screws lightly, then firmly.
- Slide the heel onto the heel plate, starting from the front. (5.4 - 3)
- Slide the heel back until it stops. (5.4 - 3)



CAUTION !

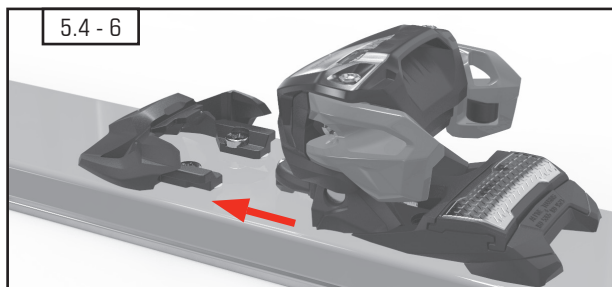
Ensure that the heel is fully and uniformly sliding onto the heel plate. (5.4 - 4)

5.4 INSTALLATION OF MARKER JESTER PRO ID & JESTER ID & GRIFFON ID & SQUIRE ID

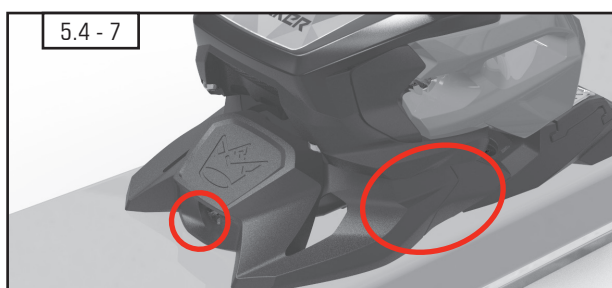


INSTALLING THE TOE:

- Install the front plate with the pre - installed screws in the front holes. Tighten the screws lightly, then firmly (5.4 - 5).



- Slide the toe onto the front plate from the rear (5.4 - 6).



CAUTION !

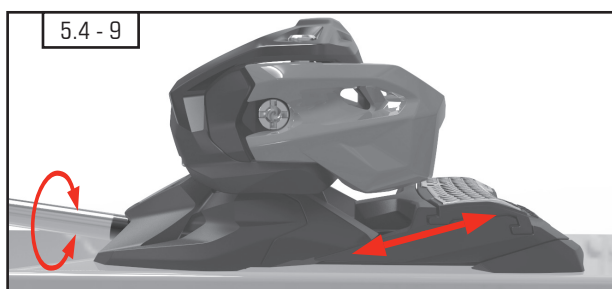
Ensure that the toe is fully and uniformly sliding into the front plate attachments and the height adjustment screw is mounted correct to the front plate. (5.4 - 7)



- Install the toe with the enclosed screws. Tighten the screws lightly, then firmly (5.4 - 8).

AFD HEIGHT ADJUSTMENT

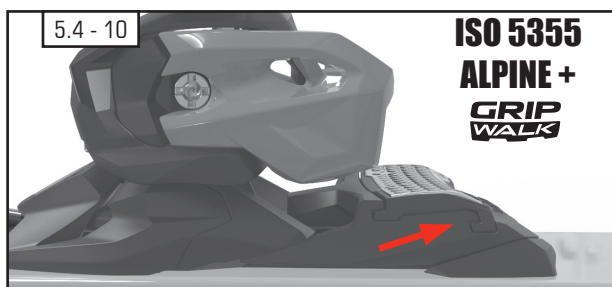
- The height of the AFD gliding plate must be adjusted to the height of the boot sole. (5.4 - 9)



REMARK:

In the original delivery condition the AFD gliding plate is preset for:

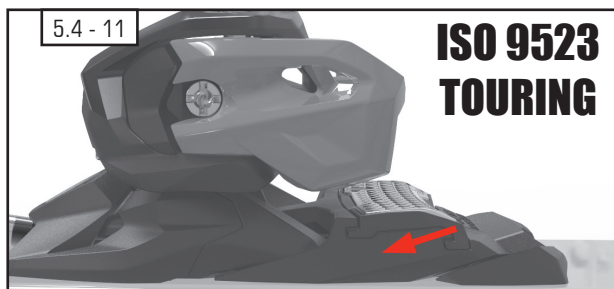
Alpine ski boots for adults according to DIN ISO 5355 and Touring boots for adults according to DIN ISO 9523 with the additional marking "Gripwalk®"



ISO 5355
ALPINE +
GRIP
WALK

- When the gliding AFD is adjusted to the rear / upper position, the height conforms to the DIN ISO 5355 (Alpine boots) and Touring boots for adults according to DIN ISO 9523 with the additional marking "Gripwalk®" (5.4 - 10)

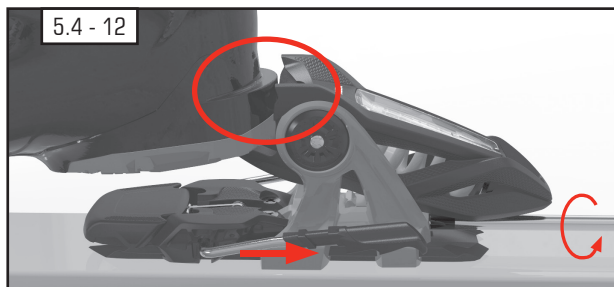
5.4 INSTALLATION OF MARKER JESTER PRO ID & JESTER ID & GRIFFON ID & SQUIRE ID



- When the gliding AFD is adjusted to the front / lower position, the height conforms to the DIN ISO 9523 (Touring boots) (5.4 - 11)

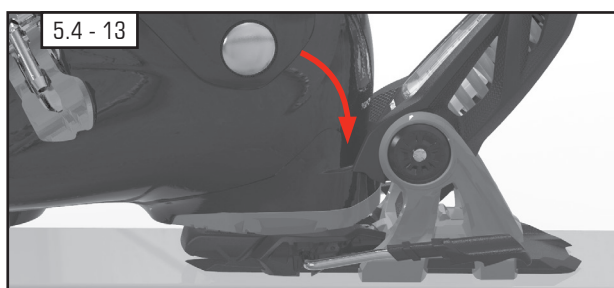
REMARK:

When mounting the toe to the height adjustment "touring" make sure that you fit the enclosed "Touring" indication sticker to the ski.



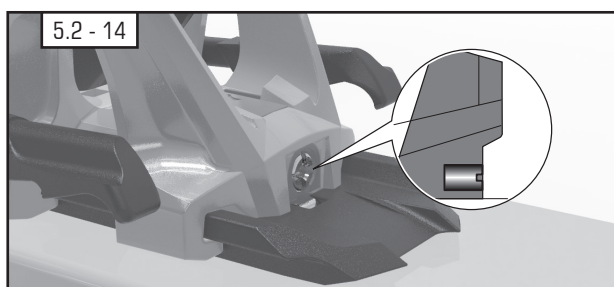
POSITIONING THE HEEL:

- Move the heel backwards by turning the forward pressure adjustment screw.
- Place the ski boot into the binding. Move the heel backwards until the position of the heel is approximately right. (5.4 - 12).



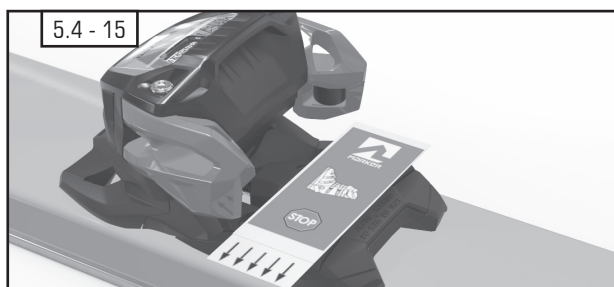
CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it. (5.4 - 13)
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing. (5.4 - 14)
- Remove the ski boot.



Turning the adjustment screw clockwise moves the AFD gliding plate down.

Turning the adjustment screw counterclockwise moves the AFD gliding plate up.



- Place the height test strip on the gliding AFD with the red marked side up. (5.4 - 15).

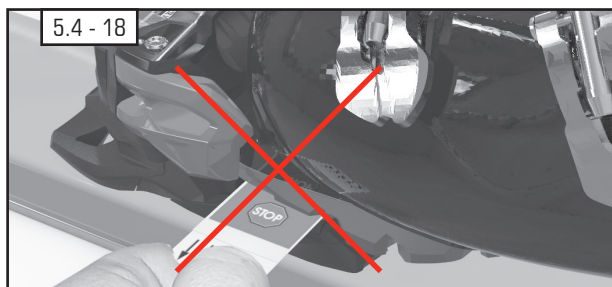


- Place the ski boot into the binding and close it. (5.4 - 16)

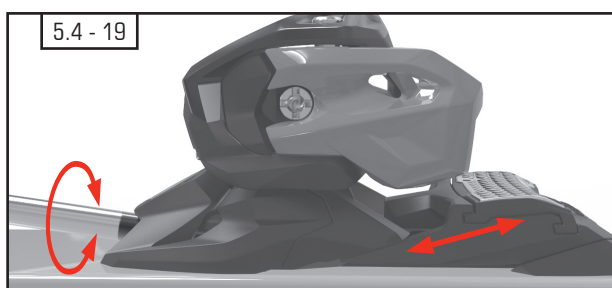
5.4 INSTALLATION OF MARKER JESTER PRO ID & JESTER ID & GRIFFON ID & SQUIRE ID



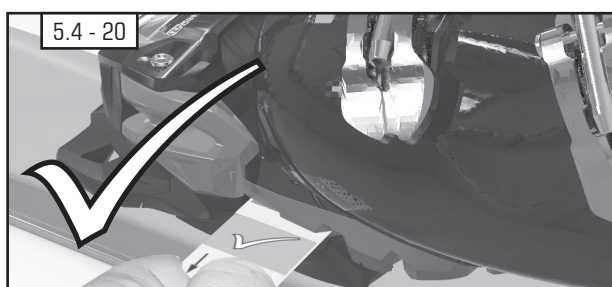
- Pull out the lower part of the test strip carefully. (5.4 - 17)



- Stop if the complete test strip moves and the red marked area becomes visible, the gap between gliding AFD and boot sole is not correct. (5.4 - 18)

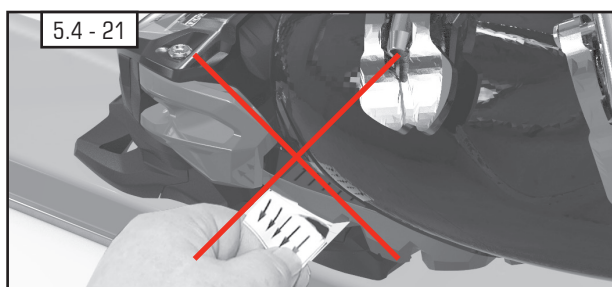


- Adjust the height of the gliding AFD by turning the adjustment screw (5.4 - 19) so that you can pull out the green marked lower part of the test strip just before it tears (5.4 - 20 and 5.4 - 21).



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing (5.4 - 22).
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.

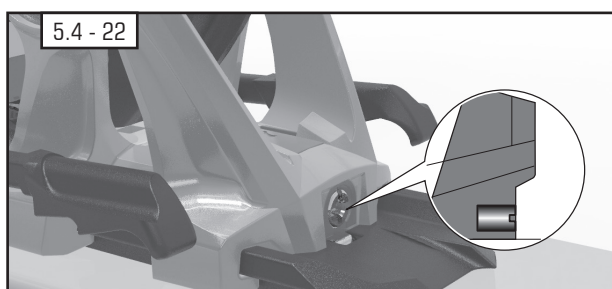


RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

6.1 INSTALLATION OF 12.0 TPX & 11.0 & 10.0 TP GRIPWALK



REMARK:

This mounting instruction is also valid for the MARKER / MOVEMENT models Freeski TP GRIPWALK

REMARK: (→ 18.3)

The binding models 12.0 TPX GRIPWALK & 11.0 TP GRIPWALK & 10.0 TP GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

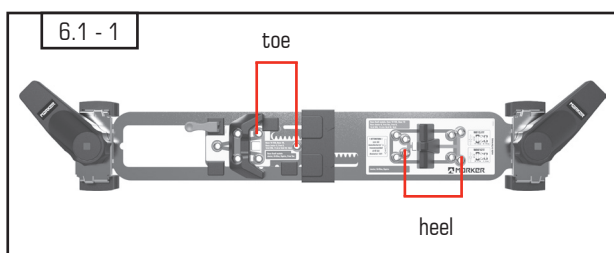
DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T or W012J1T (6.1 - 1) in the correct position on the ski
- Drill 3 holes for the front plate (toe) through the green marked drill bushings.
- Drill 4 holes for the heel plate (heel) through the green marked drill bushings.
- Remove the installation tool from the ski.

REMARK:

see DRILLING INSTRUCTIONS → 3.2



INSTALLING THE TOE:

- Place the toe with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (6.1 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (6.1 - 3)

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
 - Check if the forward pressure adjustment screw is flush with the back of the heel housing. (6.1 - 4)
- If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.



CAUTION !

Make sure that you do not exceed the back stop when adjusting the sole length backward !

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

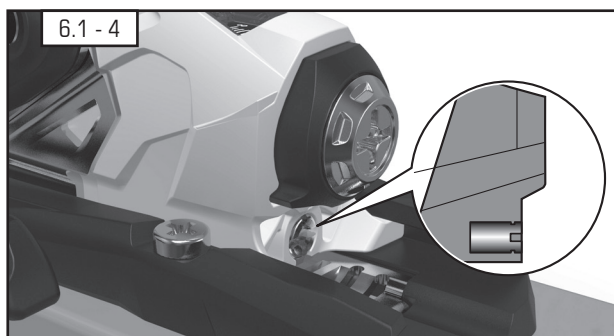
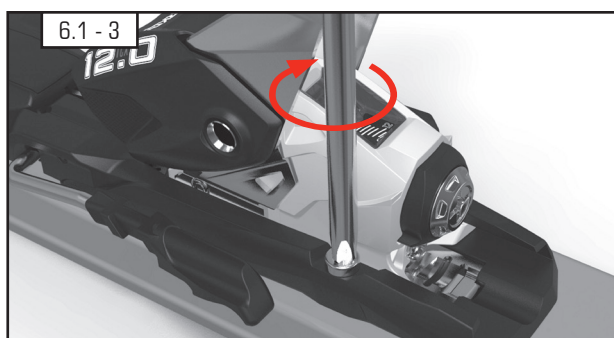
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

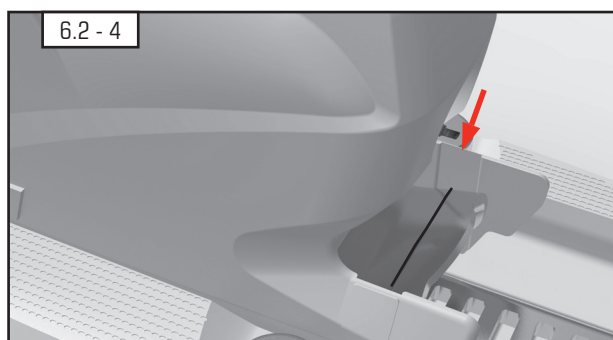
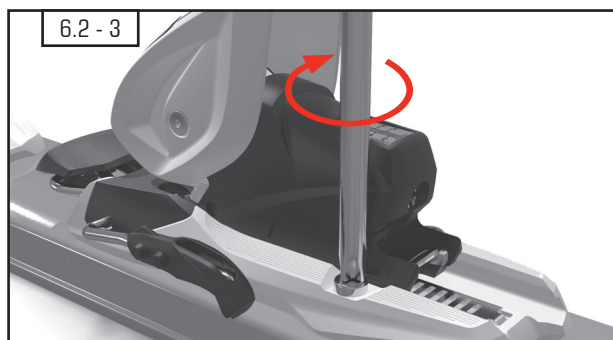
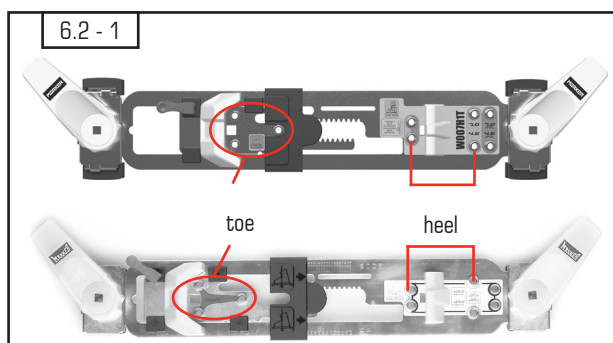


CAUTION !

The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3



6.2 INSTALLATION OF FREE 7 / 7.0 / 4.5 GRIPWALK



REMARK: (→ 18.3)

The binding models Free 7 & 7.0 & 4.5 GRIPWALK are designed for the following boot soles:

- Alpine ski boots for adults DIN ISO 5355 type A
- Junior ski boots DIN ISO 5355 type C
- Junior ski boots with the additional marking "GRIPWALK Junior"
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

DRILLING THE ATTACHMENT HOLES:

- Place the MARKER installation tool W007H1T or W007E1T (6.2 - 1) in the correct position on the ski.
- Drill 3 holes for the toe through the front drill bushings.
- Drill 4 holes for the heel through the yellow marked rear drill bushings.
- Remove the installation tool from the ski.

REMARK:

See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE TOE:

- Place the toe with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly. (6.2 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly. (6.2 - 3)

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the groove on the locking lever has to point to the embossed section of the heel housing (6.2 - 4).
If the forward pressure is incorrect: remove the ski boot, lift the lever and move the heel until the forward pressure is correct.



CAUTION !

Make sure that you do not exceed the back stop when adjusting the sole length backward !

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

7.1 INSTALLATION OF XCOMP & XCOMP GRIPWALK



REMARK: (→ 18.3)

The binding models XComp 24 & XComp 18 are designed for use only with Alpine ski boots for adults DIN ISO 5355 type A.

The binding models XComp 16, XComp 12, XComp 16 GW and XComp 12 GW are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

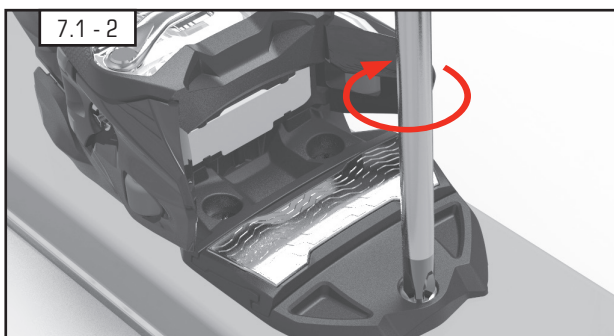
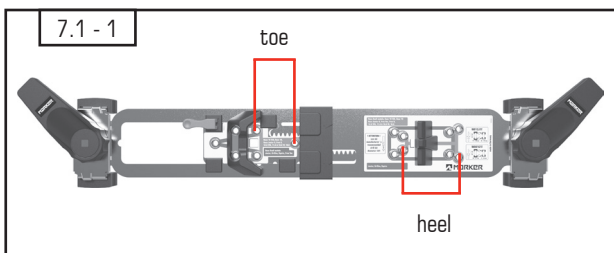
DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T (7.1 - 1) in the correct position on the ski
- Drill 3 holes for the front plate (toe) through the green marked drill bushings.
- Drill 4 holes for the heel plate (heel) through the green marked drill bushings.
- Remove the installation tool from the ski.

REMARK:

see DRILLING INSTRUCTIONS → 3.2

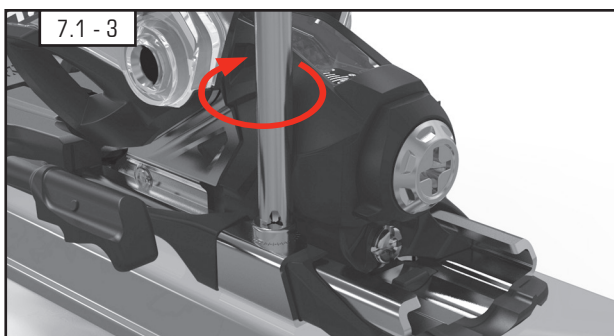


INSTALLING THE TOE:

- Place the toe with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (7.1 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (7.1 - 3)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
 - Check if the forward pressure adjustment screw is flush with the back of the heel housing. (7.1 - 4)
- If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.



CAUTION !

Make sure that you do not exceed the back stop when adjusting the sole length backward !

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

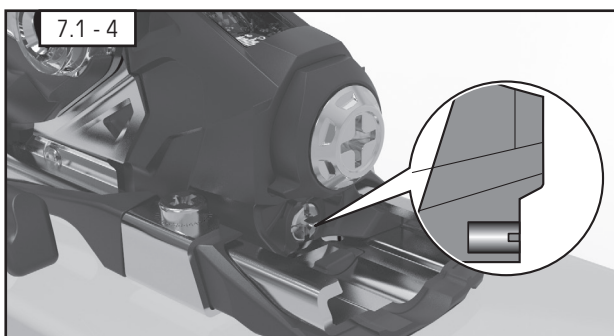
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

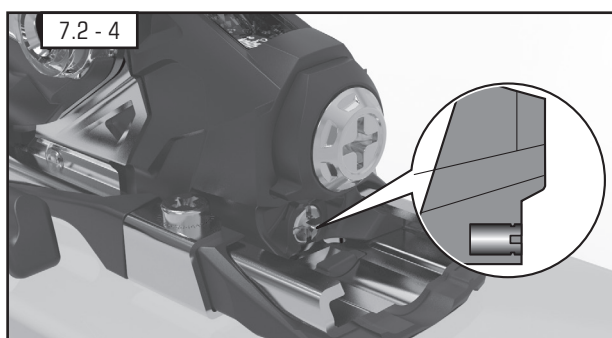
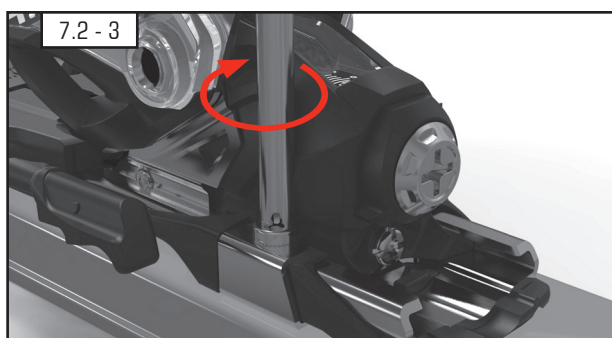
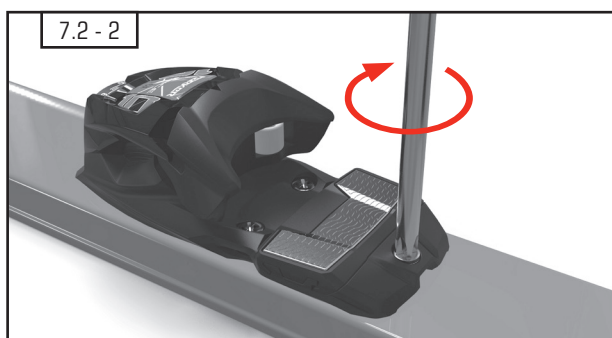
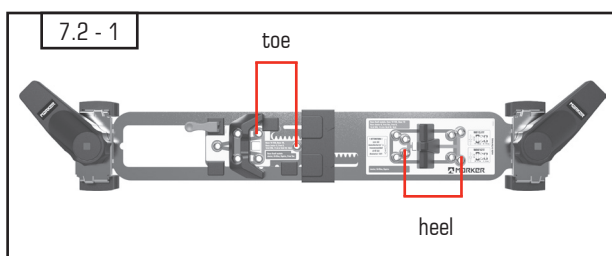


CAUTION !

The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3



7.2 INSTALLATION OF RACE 10 TCX & RACE 10 & 10.0



REMARK: (→ 18.3)

The binding models Race 10 TCX and Race 10 are designed for use only with Alpine ski boots for adults DIN ISO 5355 type A.

DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T (7.2 - 1) in the correct position on the ski
- Drill 3 holes for the front plate (toe) through the green marked drill bushings.
- Drill 4 holes for the heel plate (heel) through the green marked drill bushings.
- Remove the installation tool from the ski.

REMARK:

see SKI INSPECTION → 2.2

see DRILLING INSTRUCTIONS → 3.2

INSTALLING THE TOE:

- Place the toe with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (7.2 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (7.2 - 3)

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
 - Check if the forward pressure adjustment screw is flush with the back of the heel housing. (7.2 - 4)
- If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.



CAUTION !

Make sure that you do not exceed the back stop when adjusting the sole length backward !

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

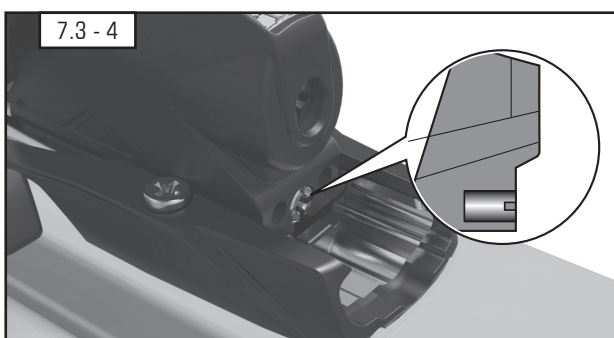
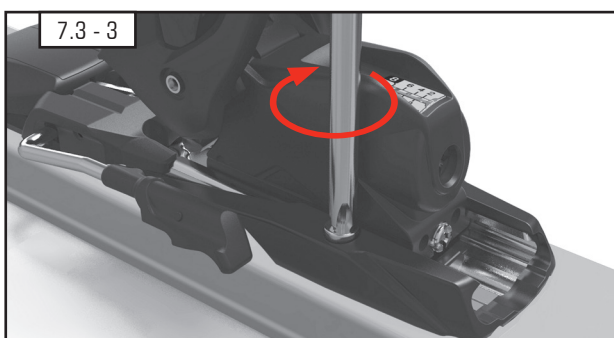
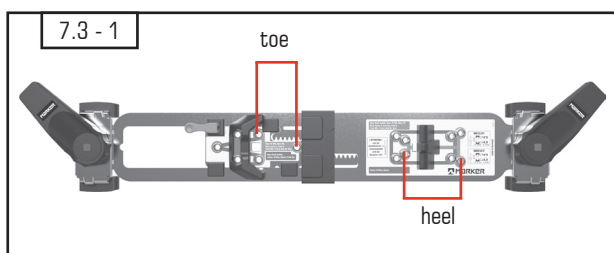
→ 12.1 - 12.3



CAUTION !

The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

7.3 INSTALLATION OF RACE JUNIOR 8



REMARK: (→ 18.3)

The binding models Race Junior 8 may only be used with junior ski boots DIN ISO 5355 type C.

DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T (7.3 - 1) in the correct position on the ski
- Drill 3 holes for the front plate (toe) through the green marked drill bushings.
- Drill 4 holes for the heel plate (heel) through the green marked drill bushings.
- Remove the installation tool from the ski.

REMARK:

see SKI INSPECTION → 2.2

see DRILLING INSTRUCTIONS → 3.2

INSTALLING THE TOE:

- Place the toe with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (7.3 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (7.3 - 3)

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
 - Check if the forward pressure adjustment screw is flush with the back of the heel housing. (7.3 - 4)
- If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.

- Remove the ski boot, then re - insert it into the binding and re-check the adjustment..



CAUTION !

Make sure that you do not exceed the back stop when adjusting the sole length backward !

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

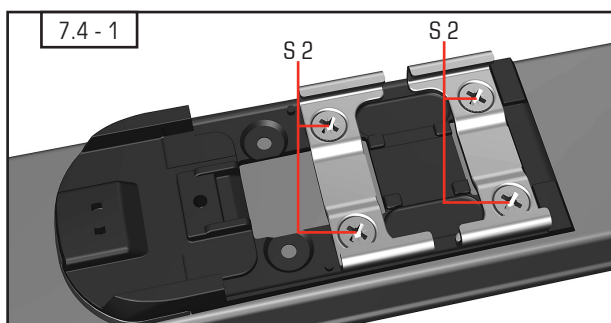
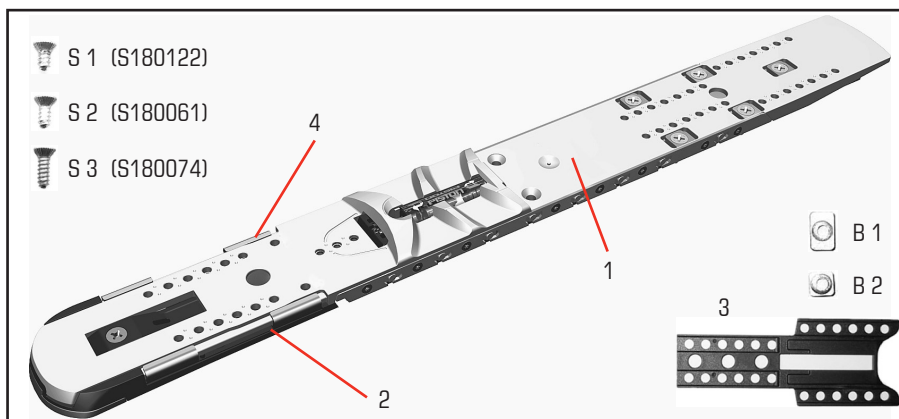
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



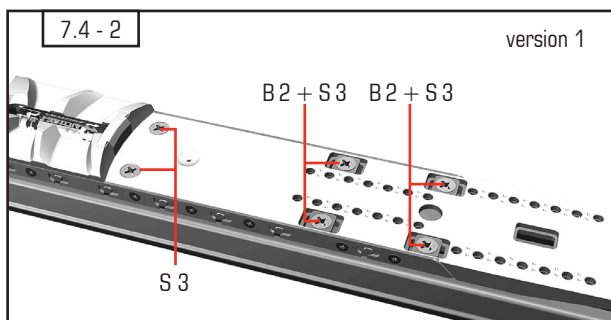
CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

7.4 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE



WORLD CUP PISTON CONTROL INTERFACE:

- 1 World Cup Piston Control plate
- 2 World Cup Piston Control front plate
- 3 Flex element
- 4 Bracket
- B 1 Fixed bushing
- B 2 Gliding bushing
- S 1 Screws for Piston (2 x)
- S 2 Screws for front plate (8 x)
- S 3 Screws for WCPC plate (14 x)



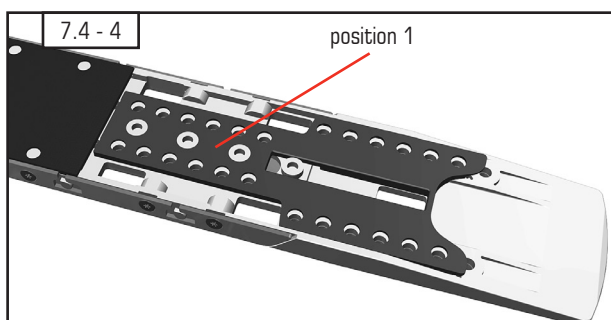
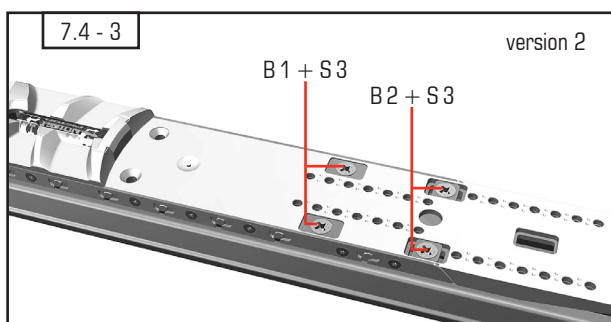
MOUNTING RECOMMENDATION SL:

Front plate:

- short position (7.4 - 1)

WCPC plate:

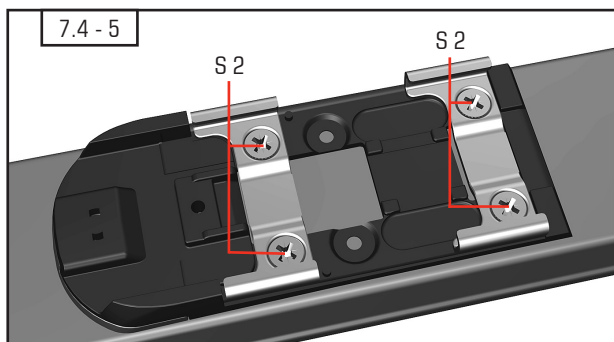
- Version 1:
fixed middle position + 4 gliding heel bushings per plate (7.4 - 2)
- or
- Version 2:
2 fixed heel bushings + 2 gliding heel bushings per plate (7.4 - 3)



Flex element:

- Position 1 (7.4 - 4)

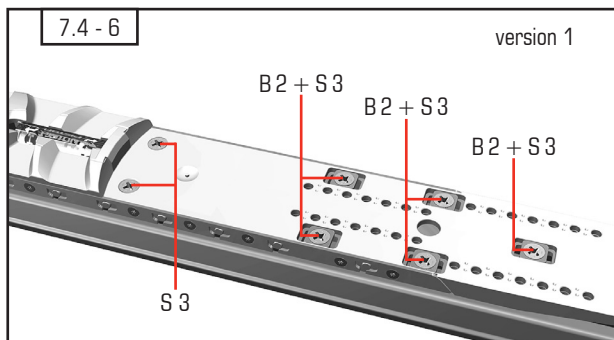
7.4 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE



MOUNTING RECOMMENDATION GS / SG / DH:

Front plate:

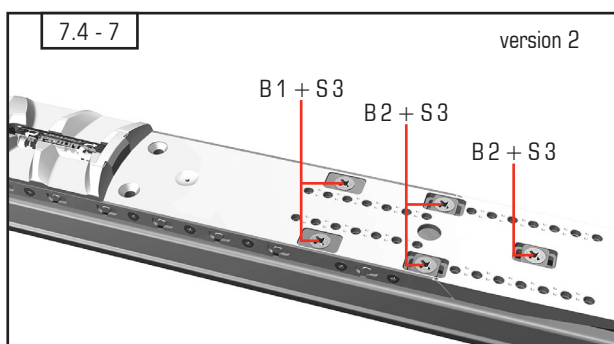
- Long position (7.4 - 5)



WCPC plate:

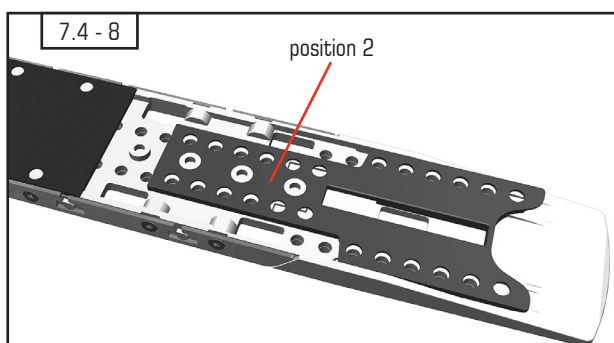
- Version 1:
fixed middle position + 5 gliding heel bushings per plate (7.4 - 6)

or



- Version 2:
2 fixed heel bushings + 3 gliding heel bushings per plate (7.4 - 7)

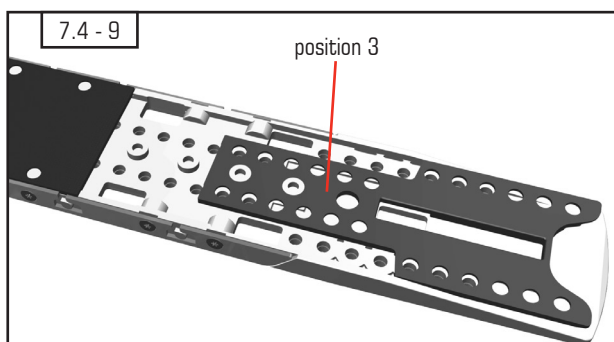
For boot sole lengths larger than 325mm 1 additional gliding heel bushings per plate in rear. (7.4 - 7)



Flex element:

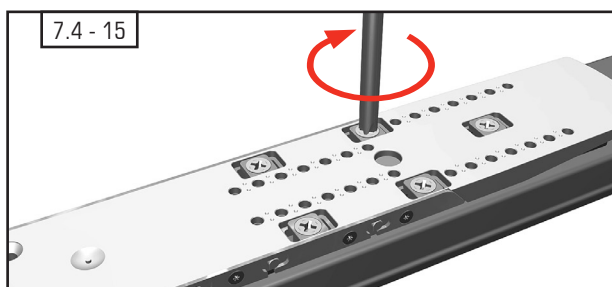
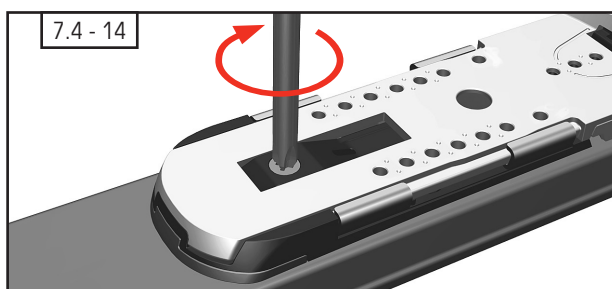
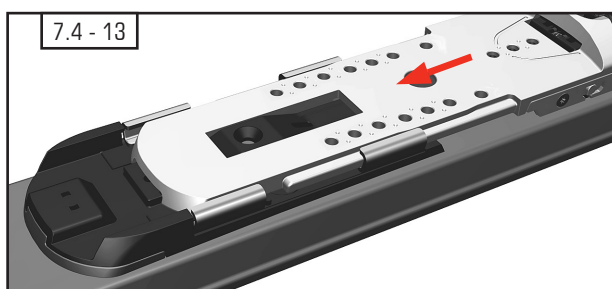
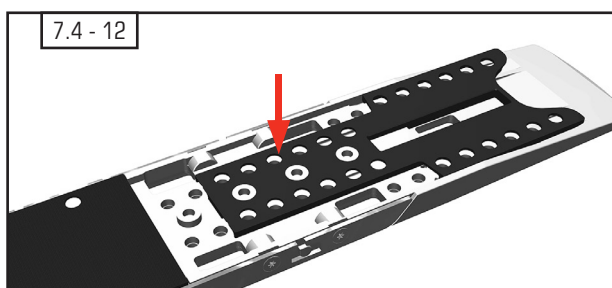
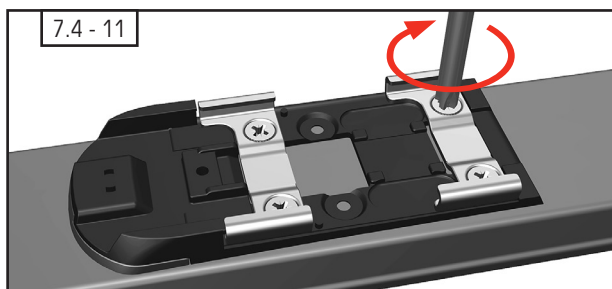
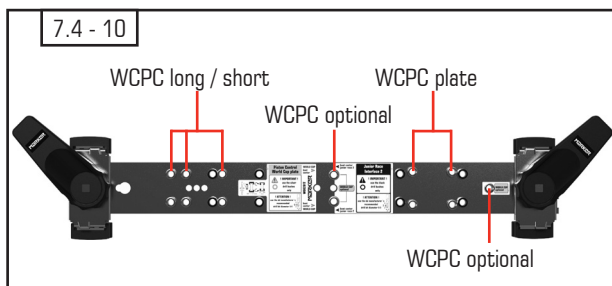
- Position 2 (7.4 - 8)

or



- Position 3 for stiffer flex (7.4 - 9)

7.4 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE



DRILLING THE ATTACHMENT HOLES:

- Place the World Cup Piston Control installation tool W00201T or W002H1T (7.4 - 10) in the correct position on the ski.
- Drill 4 holes for the front plate for short or long mounting position. (7.4 - 1 or 7.4 - 5)
- Drill the holes for the chosen mounting version of the WCPC plate (7.4 - 2 or 7.4 - 3 for SL; 7.4 - 6 or 7.4 - 7 for GS / SG / DH)
- Remove installation tool from the ski.

REMARK:

See DRILLING INSTRUCTIONS → 3.2

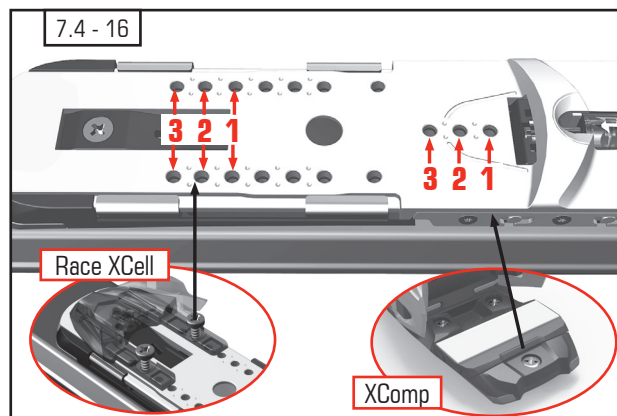
INSTALLATION OF THE WORLD CUP PISTON CONTROL FRONT PLATE:

- Install the World Cup Piston Control front plate using the 4 provided screws. (7.4 - 11)

INSTALLATION OF THE WORLD CUP PISTON CONTROL PLATE:

- Insert the Flex element at the chosen position SL or GS / SG / DH (7.4 - 12)
- Insert and slide the World Cup Piston Control plate into installed front plate. (7.4 - 13)
- Connect the World Cup Piston Control plate to the front plate using the front screw. (7.4 - 14)
- Insert the bushings and the screws for the chosen mounting version, tighten the rear screws in the pre - drilled mounting holes. (7.4 - 15)

7.4 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE



BINDING POSITIONING: (7.4 - 16 / 7.4 - 17)

Toe: (7.4 - 16)

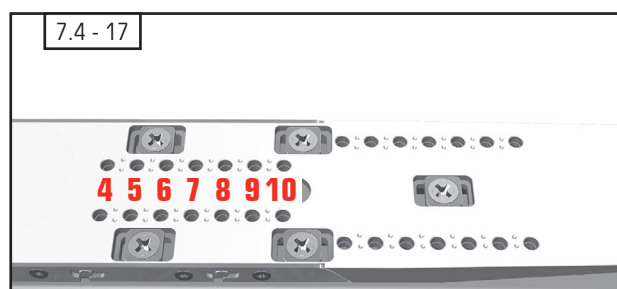
- 1: 260 mm - 308 mm
- 2: 309 mm - 328 mm
- 3: 329 mm - 362 mm

Heel: (7.4 - 17)

- 4: 262 mm - 278 mm
- 5: 279 mm - 288 mm
- 6: 289 mm - 298 mm
- 7: 299 mm - 318 mm
- 8: 319 mm - 338 mm
- 9: 339 mm - 348 mm
- 10: 349 mm - 362 mm

BINDING INSTALLATION:

see INSTALLATION OF XCOMP BINDINGS → 7.1

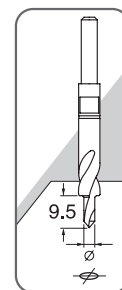


DUCK STANCE OPTION:

REMARK: use 4.1 x 9.5 drill bit.

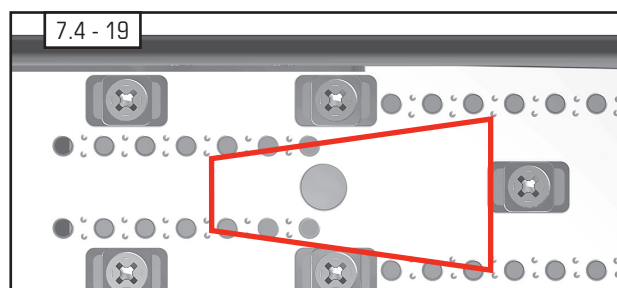
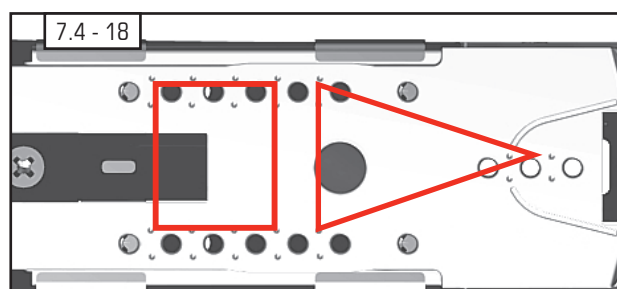
TOE: (7.4 - 18)

The duck stance mounting position allows 3 mm lateral positioning of the toe.



HEEL: (7.4 - 19)

The duck stance mounting position allows 2 mm lateral positioning of the heel.



REMARK:

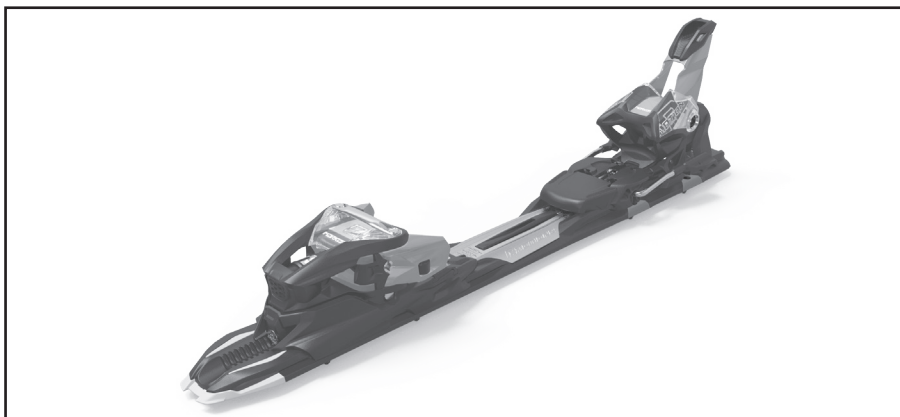
For mounting the **World Cup PC Interface 14 mm** the enclosed mounting instruction 820223 is valid. When mounting the binding onto the plate please take note of the advice concerning the correct screw choice !

SCREW CHART FOR SPACERS

Toe	Race XCell		Heel	Race XCell	
+ 2 mm	inline screw	inline screw	+ 2 mm	inline screw	inline screw
+ 4 mm	180171 (5.5 x 14.0)	180154 (5.5 x 20.5)	+ 4 mm	180074 (5.5 x 17.5)	180182 (5.5 x 28.0)

Toe	XComp		Heel	XComp	
+ 2 mm	inline screw	inline screw	+ 2 mm	inline screw	inline screw
+ 4 mm	180154 (5.5 x 20.5)	180154 (5.5 x 20.5)	+ 4 mm	180074 (5.5 x 17.5)	180182 (5.5 x 28.0)

8.1 INSTALLATION OF rMOTION2 GRIPWALK MODELS



REMARK: (→ 18.3)

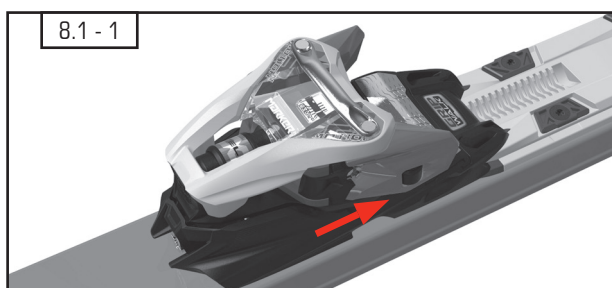
The binding models rMotion2 GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"



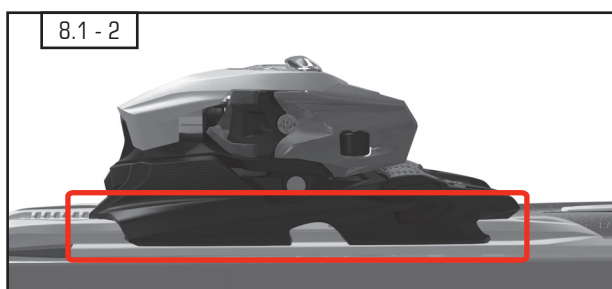
IMPORTANT !

rMotion2 GRIPWALK models are designed to mount only in conjunction with Völkl skis with premounted rMotion2 plate system.



INSTALLING THE TOE:

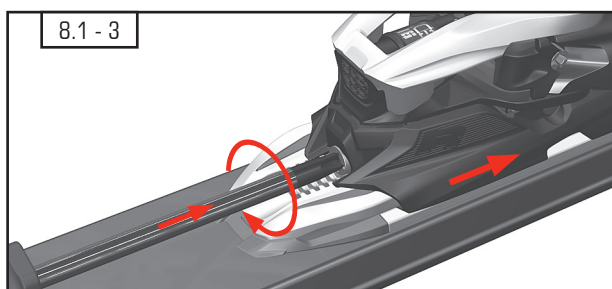
- Slide the toe piece from the front onto the plate. Slide the toe backward until it stops (8.1 - 1).



CAUTION !

Make sure that the toe spacer rails engage both sides of the base plate properly. (8.1 - 2)

- With slight pressure, screw the toe piece backwards onto the plate. (8.1 - 3)



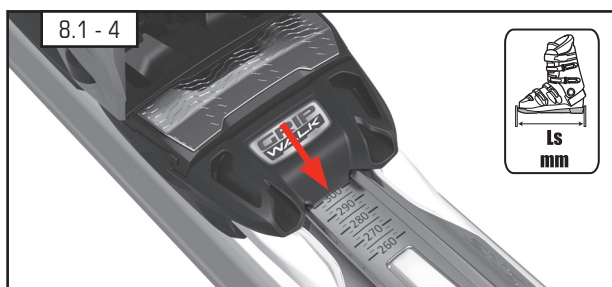
SOLE LENGTH ADJUSTMENT:

- Adjust the toe to the correct sole length in accordance with the sole length scale. (8.1 - 4)

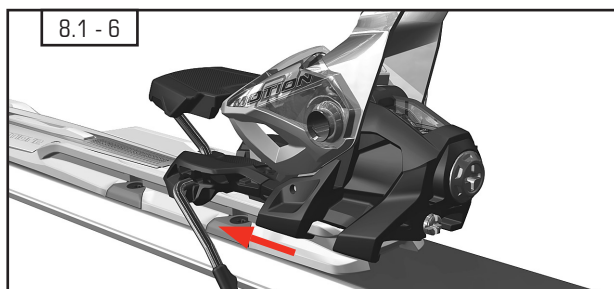


IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length in forward direction ! (8.1 - 5)

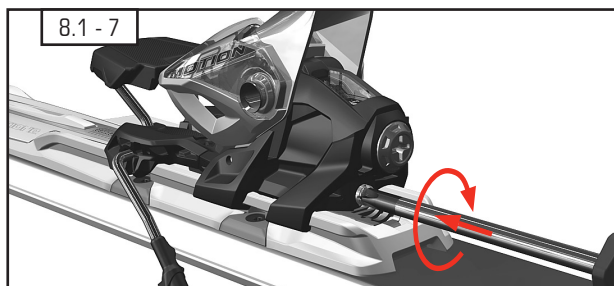


8.1 INSTALLATION OF rMOTION2 GRIPWALK MODELS



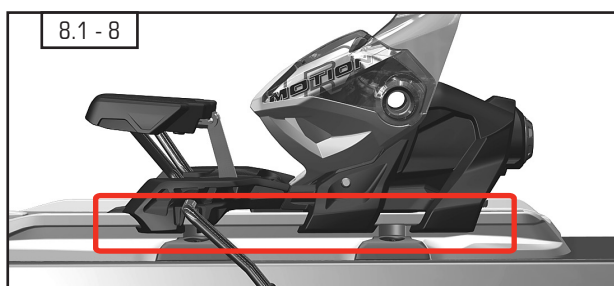
INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops (8.1 - 6).
- With slight pressure, screw the heel forward onto the plate by turning the forward pressure adjustment screw (8.1 - 7).



CAUTION !

Ensure that the heel is fully and uniformly sliding onto the plate (8.1 - 8).



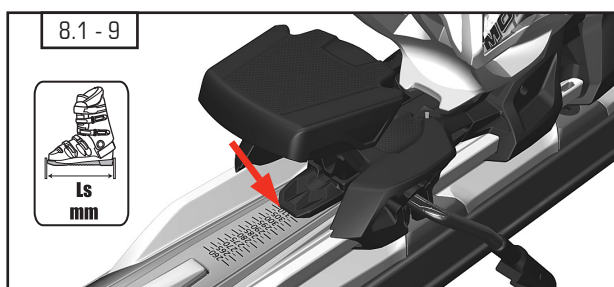
SOLE LENGTH ADJUSTMENT:

- Screw the heel to the correct sole length in accordance with the sole length scale (8.1 - 9).



IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (8.1 - 10)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
 - Check if the forward pressure adjustment screw is flush with the back of the heel housing. (8.1 - 11).
- If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

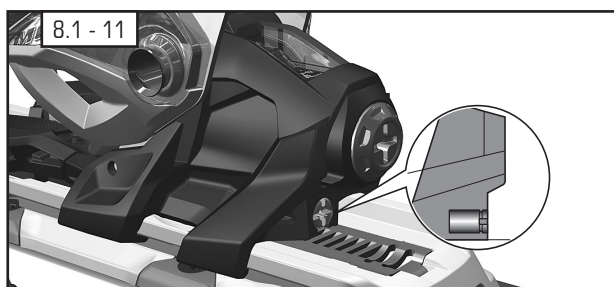
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.6



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

8.2 WIDERIDE XL TCX DEMO GRIPWALK



IMPORTANT !

Wideride XL Demo GRIPWALK models are designed to mount only in conjunction with VÖLKL skis Deacon 79 and Flair 79.

REMARK: (→ 18.3)

The binding models Wideride XL TCX GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

REMARK:

For installation of the binding the sole length has to be adjusted to $L_s = 328 \text{ mm}$.

- Install the complete binding with the pre-installed toe and heel into the notches of the attachment. Slide the binding toward the ski tip until it stops. (8.2 - 1)



CAUTION !

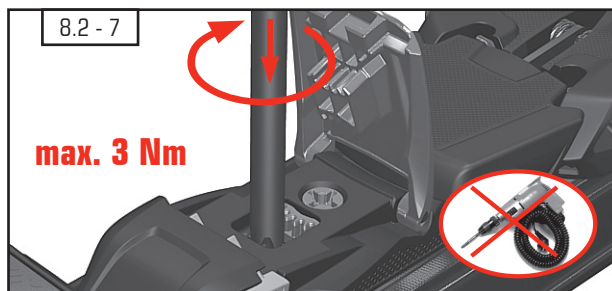
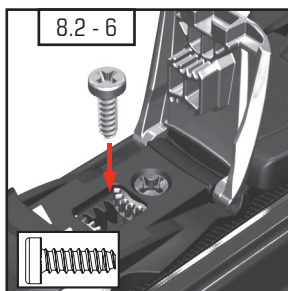
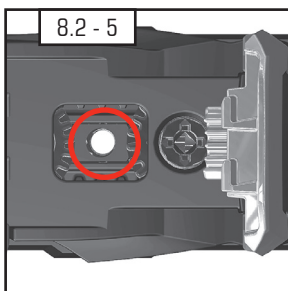
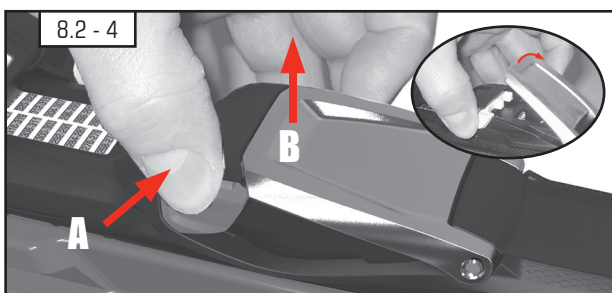
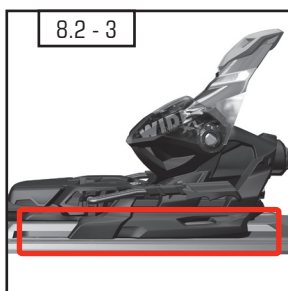
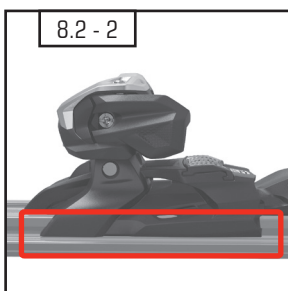
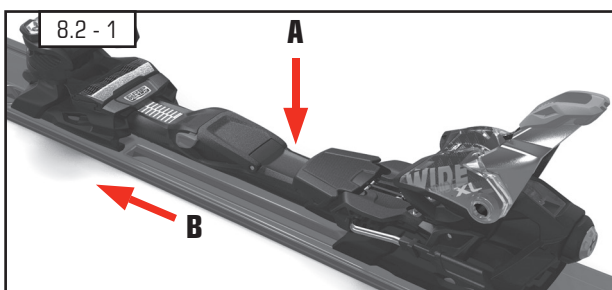
Check that the binding is fully and uniformly installed in the attachments (8.2 - 2 and 8.2 - 3)

- Push the opening block [A], then lift the sole length fixation lever [B]. (8.2 - 4)
- The hole of the middle plate has to be aligned with the bushing of the ski. (8.2 - 5)
- Position the center fixation screw (8.2 - 6). With light downward pressure, tighten the screw by hand with a maximum torque of 3.0 Nm. (8.2 - 7)



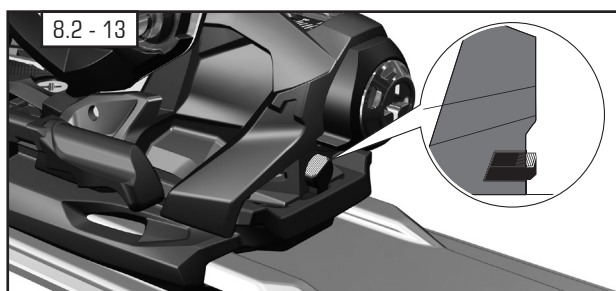
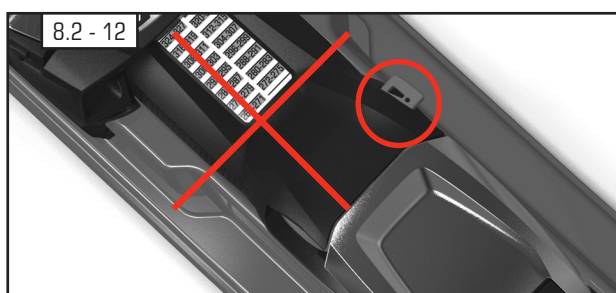
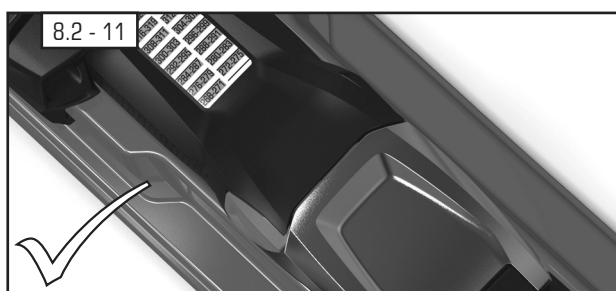
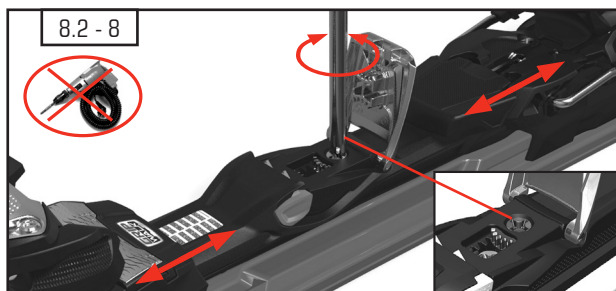
IMPORTANT !

Ensure correct screw choice: using the wrong center fixing screw can irreparably damage the bushing of the ski !



max. 3 Nm

8.2 WIDERIDE XL TCX DEMO GRIPWALK



SOLE LENGTH ADJUSTMENT:

- Adjust the sole length either by hand by shifting the binding to the corresponding markings on the scale or by turning the sole length adjustment screw with the appropriate screwdriver. (Use a Pozidriv® 3 screwdriver) (8.2 - 8 and 8.2 - 9)
- Lock the system by closing the sole length fixation lever. (8.2 - 10)



CAUTION !

The sole length fixation lever must not be pressed down with effort, but is correctly aligned with the locking teeth when it closes easily.



CAUTION !

Visually check locking mechanism: when locking the system the opening lever has to snap into the basic position. (8.2 - 11)

The warning symbol on the right side of the opening lever must not be visible ! (8.2 - 12)

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Correct forward pressure:
With the boot in the system the forward pressure is correct when any portion of the white scribe mark on the forward pressure indicator is flush with the back edge of the heel housing. (8.2 - 13).
If the forward pressure is incorrect: remove the ski boot and re-adjust the boot sole length until the forward pressure is correct.

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

REMARK:

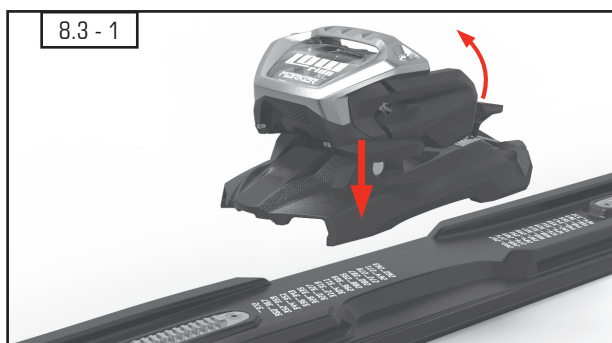
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.6



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

8.3 INSTALLATION OF LOWRIDE XL FR DEMO GW



IMPORTANT !

LOWRIDE XL FR Demo GW bindings are designed to mount only in conjunction with Völkl Deacon 84, Deacon V-Werks and Deacon 80 skis.

REMARK: (→ 18.3)

The binding models LOWRIDE XL FR Demo GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the ski forward. (8.3 - 1 & 8.3 - 2)



CAUTION !

Make sure that the toe spacer rails engage both sides of the ski rails properly.

- Slide the toe to the correct sole length in accordance with the front sole length scale. (8.3 - 3)

- Close the toe locking lever. (8.3 - 4)

8.3 INSTALLATION OF LOWRIDE XL FR DEMO GW



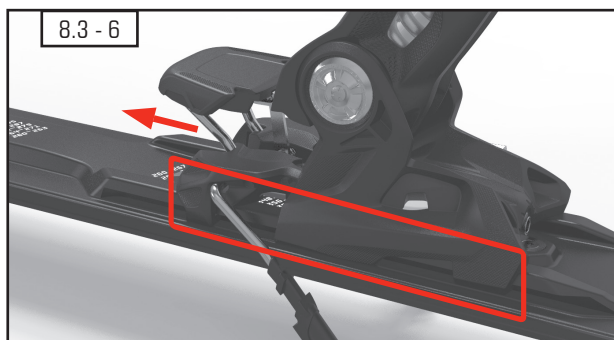
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the ski rails from the rear. (8.3 - 5)
- Slide the heel forward. (8.3 - 6)



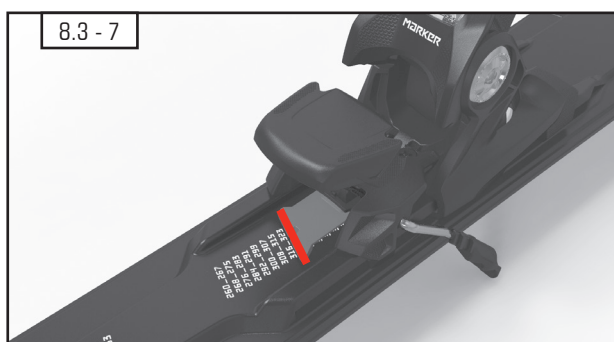
CAUTION !

Ensure that the rails of the heel engage both sides of the ski rails properly.



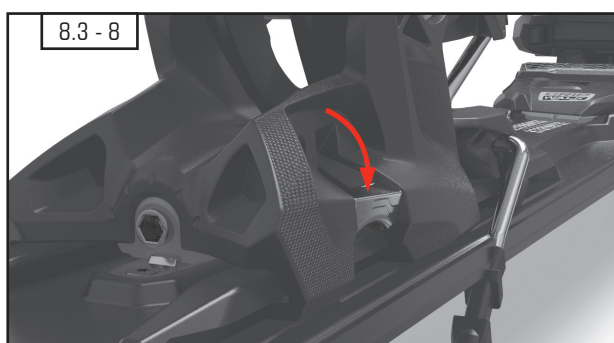
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (8.3 - 7)

- Close the heel locking lever. (8.3 - 8)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the forward pressure is correct when the imprinted line on the forward pressure indicator is visible in the cutout of the heel housing. (8.3 - 9)
If the forward pressure indicator line is not visible: remove the ski boot and readjust the boot sole length until the forward pressure indicator line is visible in the cutout.



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 12.1 - 12.3

REMARK:

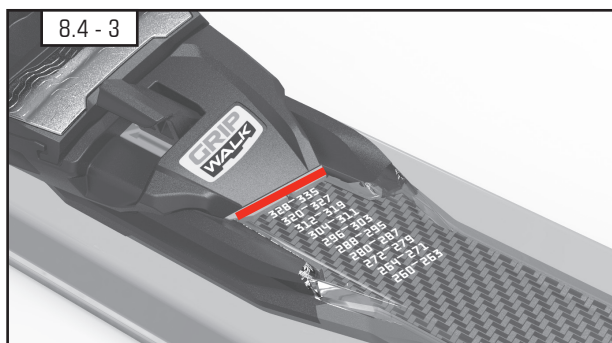
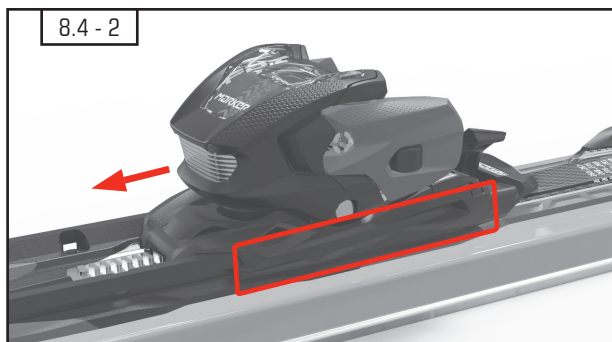
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 14.6



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder: ➔ 15.3

8.4 INSTALLATION OF VMOTION GRIPWALK



IMPORTANT !



VMotion GRIPWALK bindings are designed to mount only in conjunction with Vökl skis with premounted VMotion plate system.

REMARK: (→ 18.3)

The binding models VMotion GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (8.4 - 1 & 8.4 - 2)

CAUTION !

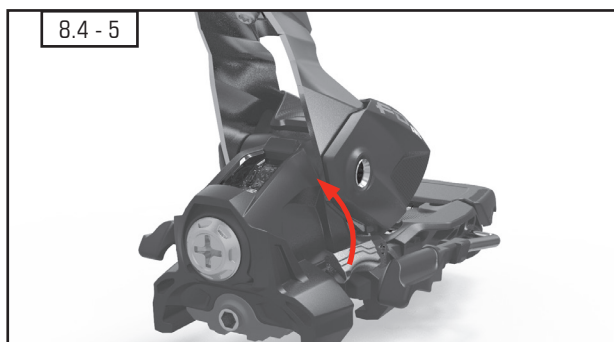


Make sure that the toe spacer rails engage both sides of the base plate properly.

- Slide the toe to the correct sole length in accordance with the front sole length scale. (8.4 - 3)

- Close the toe locking lever. (8.4 - 4)

8.4 INSTALLATION OF VMOTION GRIPWALK



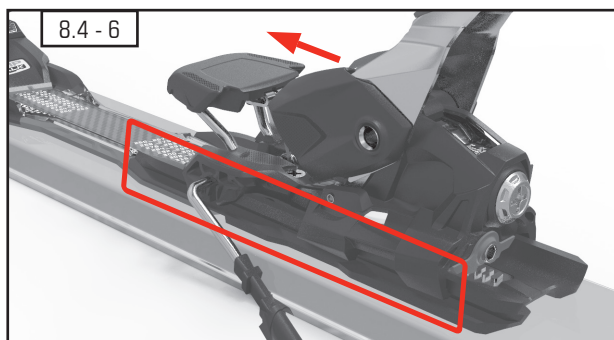
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (8.4 - 5)
- Slide the heel forward. (8.4 - 6)



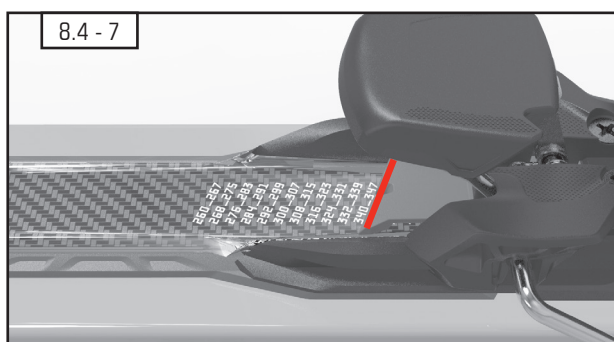
CAUTION !

Ensure that the rails of the heel engage both sides of the base plate properly.



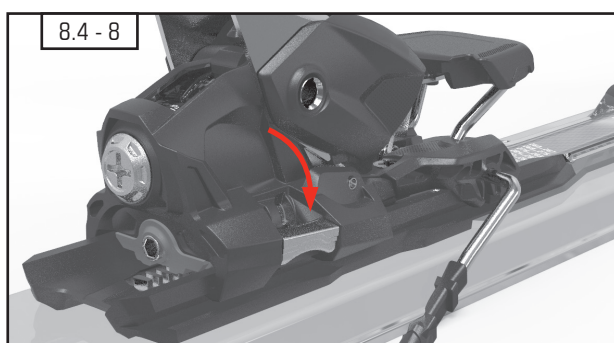
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (8.4 - 7)

- Close the heel locking lever. (8.4 - 8)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the forward pressure is correct when the imprinted line on the forward pressure indicator is visible in the cutout of the heel housing. (8.4 - 9)
If the forward pressure indicator line is not visible: remove the ski boot and readjust the boot sole length until the forward pressure indicator line is visible in the cutout.



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

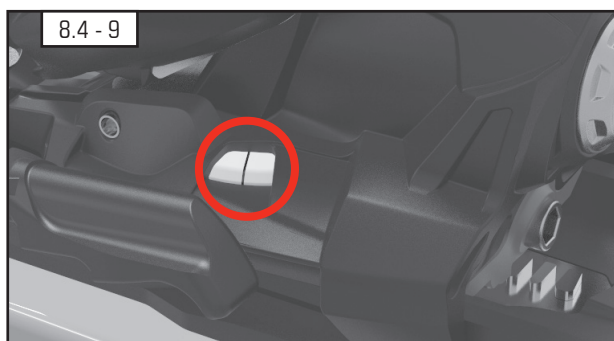
See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ **12.1 - 12.3**

REMARK:

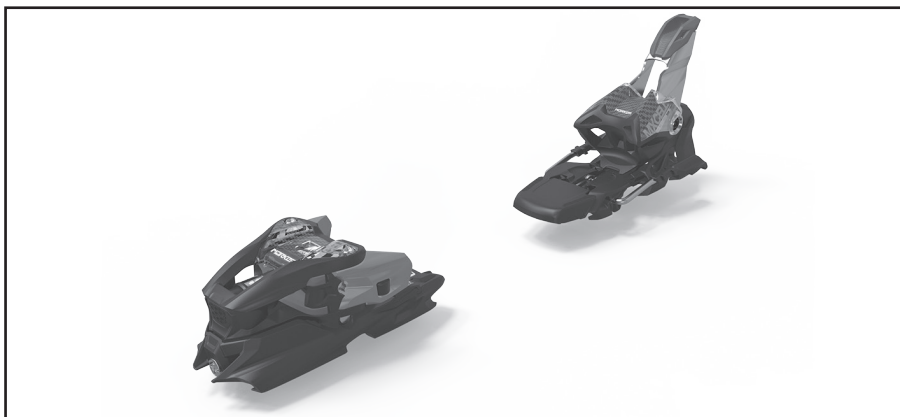
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ **14.6**



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder: ➔ **15.3**

9.1 INSTALLATION OF MARKER / K 2 MXCELL TCX D GRIPWALK MODELS/



REMARK: (→ 18.3)

The binding models MXCELL TCx Demo GRIPWALK are designed for the following standard boot soles:

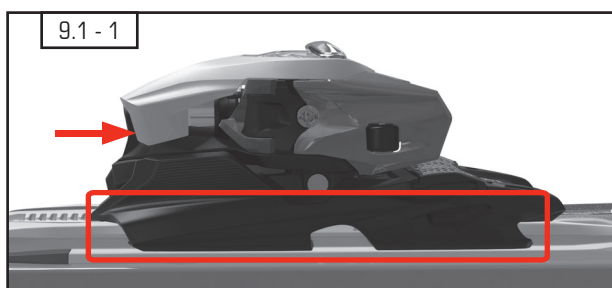
- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"



IMPORTANT !

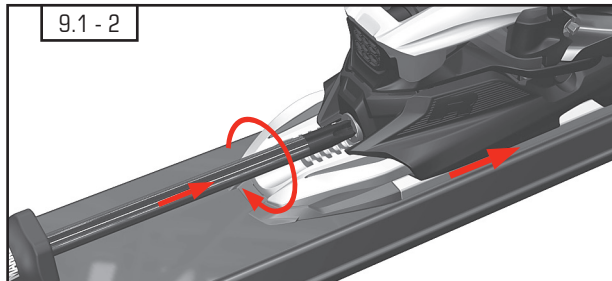
MXCELL TCx Demo GRIPWALK models are designed to mount only in conjunction with K 2 skis with premounted plate system.

The suitable ski models are listed on the set label or can be requested from K 2.



INSTALLING THE TOE:

- Slide the toe piece from the front onto the plate. Slide the toe backward until it stops (9.1 - 1).



CAUTION !

Make sure that the toe spacer rails engage both sides of the base plate properly. (9.1 - 1)

- With slight pressure, screw the toe piece backwards onto the plate. (9.1 - 2)



SOLE LENGTH ADJUSTMENT:

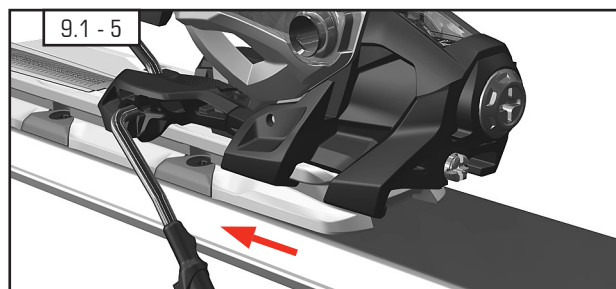
- Adjust the toe to the correct sole length in accordance with the sole length scale. (9.1 - 3)



IMPORTANT SAFETY ADVICE !

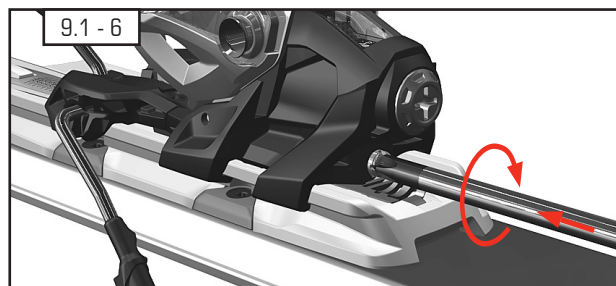
Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length in forward direction ! (9.1 - 4)

9.1 INSTALLATION OF MARKER / K 2 MXCELL TCX D GRIPWALK MODELS



INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops (9.1 - 5).
- With slight pressure, screw the heel forward onto the plate by turning the forward pressure adjustment screw (9.1 - 6).



CAUTION !

Ensure that the heel is fully and uniformly sliding onto the plate (9.1 - 7).



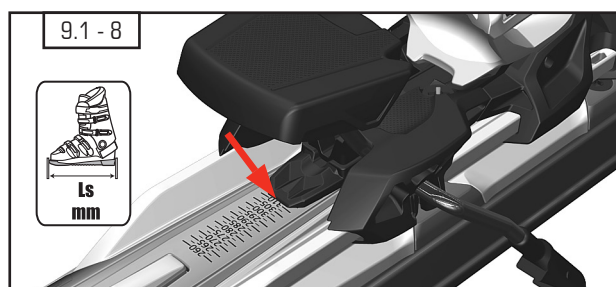
SOLE LENGTH ADJUSTMENT:

- Screw the heel to the correct sole length in accordance with the sole length scale (9.1 - 8).



IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (9.1 - 9)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
 - Check if the forward pressure adjustment screw is flush with the back of the heel housing. (9.1 - 10).
- If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

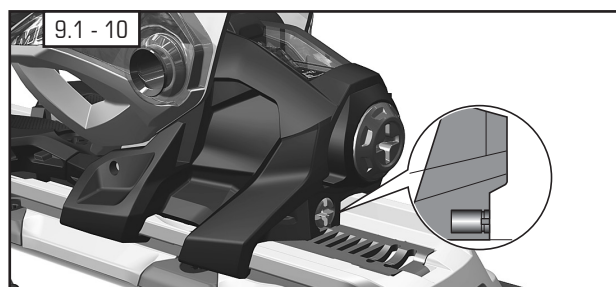
REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:

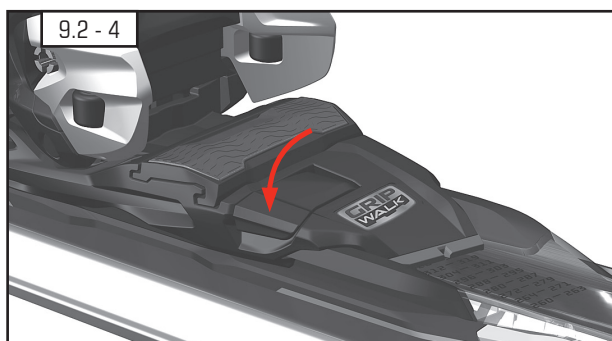
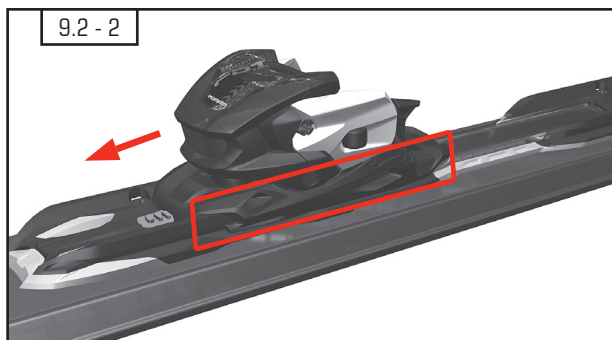
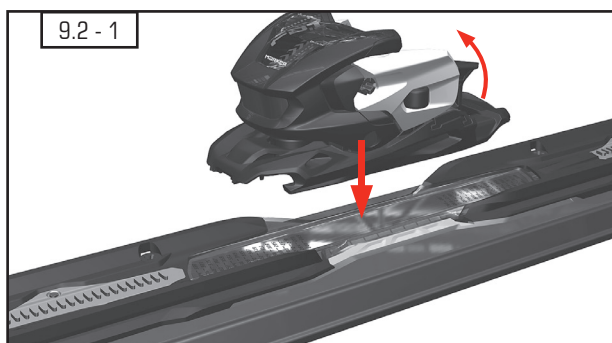
also refer to chapter → 14.6



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder: → 15.3



9.2 INSTALLATION OF MARKER / K 2 QUICKCLIK GRIPWALK MODELS



IMPORTANT !



Marker / K 2 QuickClik bindings are designed to mount only in conjunction with K 2 skis with premounted QuickClik plate system. The suitable ski models are listed on the set label or can be requested from K 2.

REMARK:

This mounting instruction is valid for the MARKER / K 2 models MXCELL TCx QuickClik, MXC TCx QuickClik, MCX TCx light QuickClik, M3 TCx light QuickClik, ERC TCx light QuickClik, M3 QuickClik, ER3 QuickClik, M2 QuickClik, Free Ten QuickClik and ERP QuickClik.

REMARK: (→ 18.3)

The binding models K 2 QuickClik GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (9.2 - 1 & 9.2 - 2)

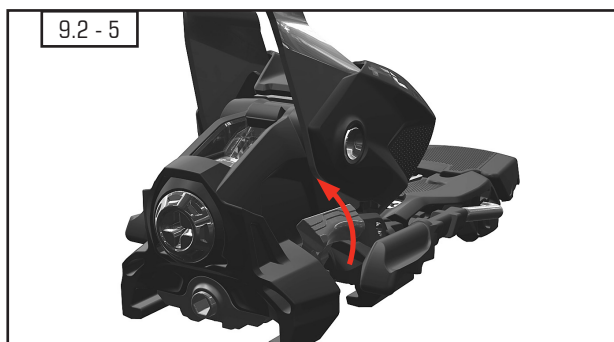


CAUTION !

Make sure that the toe spacer rails engage both sides of the base plate properly.

- Slide the toe to the correct sole length in accordance with the front sole length scale. (9.2 - 3)
- Close the toe locking lever. (9.2 - 4)

9.2 INSTALLATION OF MARKER / K 2 QUICKLIK GRIPWALK MODELS



INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (9.2 - 5)
- Slide the heel forward. (9.2 - 6)



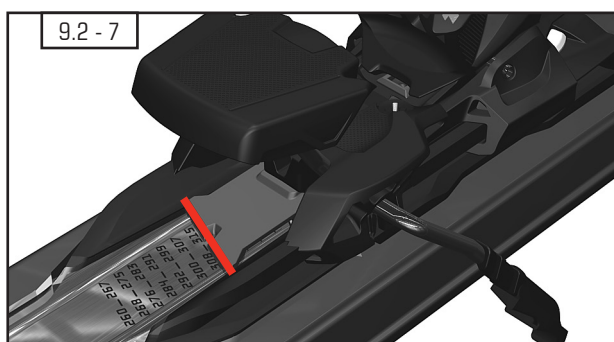
CAUTION !

Ensure that the rails of the heel engage both sides of the base plate properly.



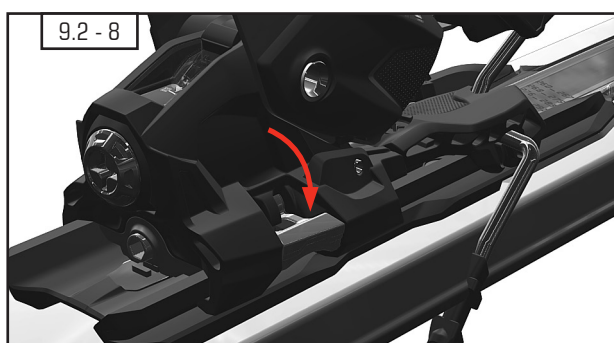
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (9.2 - 7)

- Close the heel locking lever. (9.2 - 8)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the forward pressure is correct when the imprinted line on the forward pressure indicator is visible in the cutout of the heel housing. (9.2 - 9)
If the forward pressure indicator line is not visible: remove the ski boot and readjust the boot sole length until the forward pressure indicator line is visible in the cutout.



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

REMARK:

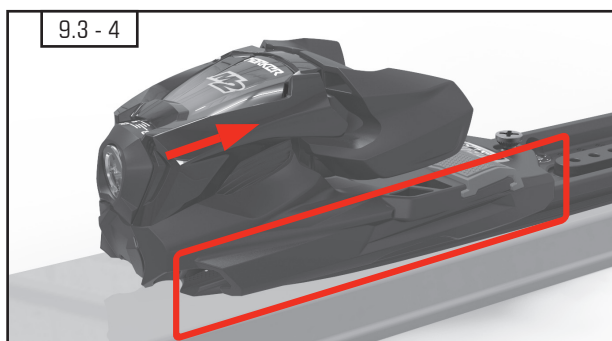
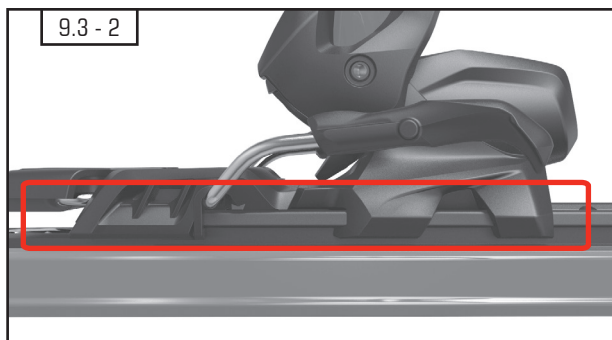
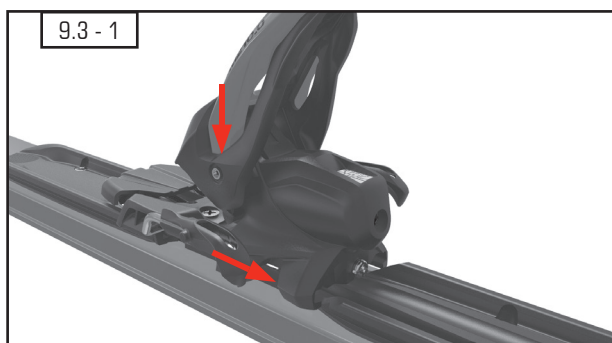
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.6



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder: → 15.3

9.3 INSTALLATION OF M2 / ERP GRIPWALK MODELS



IMPORTANT !

M2 / ERP bindings are designed to mount only in conjunction with K 2 M2 / ERP skis.

The suitable ski models are listed on the set label or can be requested from K 2.

REMARK: (→ 18.3)

The binding models M2 / ERP GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

INSTALLING THE HEEL:

- Slide the heel from the center of the plate backward until it stops. (9.3 - 1)



CAUTION !

Make sure that the spacer rails engage both sides of the base plate properly. (9.3 - 2)

- Move the heel backwards by turning the forward pressure adjustment screw. (9.3 - 3)

INSTALLING THE TOE:

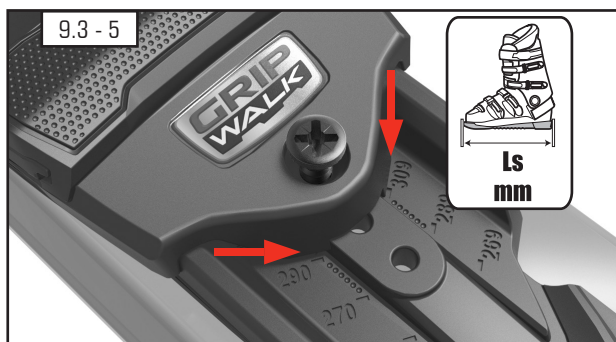
- Ensure that the fixation screw tips do not exceed the bottom side of the spacer.
- Slide the toe onto the plate, starting from the front. (9.3 - 4)



CAUTION !

Make sure that the spacer rails engage both sides of the base plate properly. (9.3 - 4)

9.3 INSTALLATION OF M2 / ERP GRIPWALK MODELS



SOLE LENGTH ADJUSTMENT:

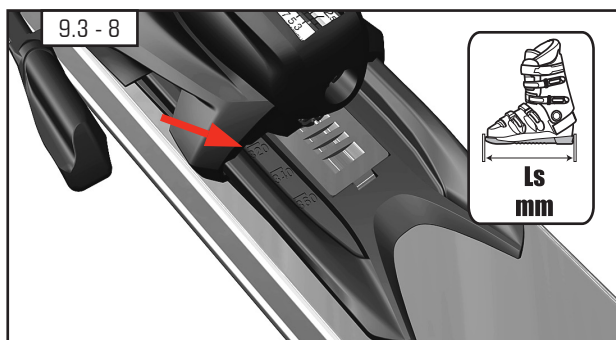
- Slide the toe backward and adjust the sole length in accordance with the sole length scale. The screw hole of the toe spacer has to be aligned with the hole of the plate. (9.3 - 5).



- Tighten the fixing screws by hand with a torque of 5.0 ± 0.5 Nm. (9.3 - 6)



- Screw the heel backward to the correct sole length in accordance with the sole length scale.
Indicator: left back edge of the heel housing. (9.3 - 7 / 9.3 - 8)



CHECK FORWARD PRESSURE:

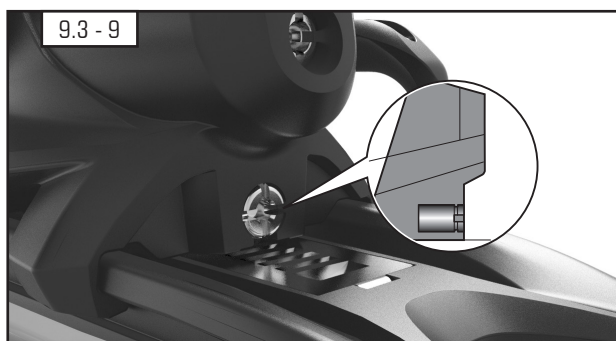
- Place the ski boot into the binding, close the binding.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing. (9.3 - 9).
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

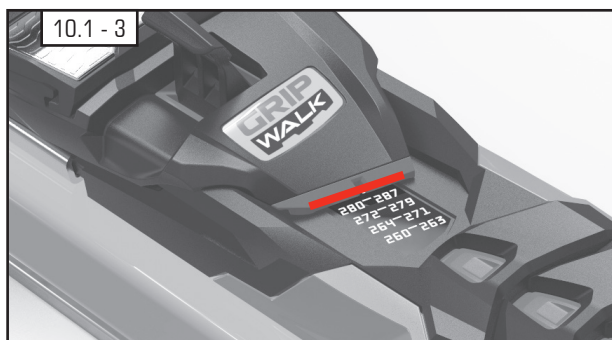
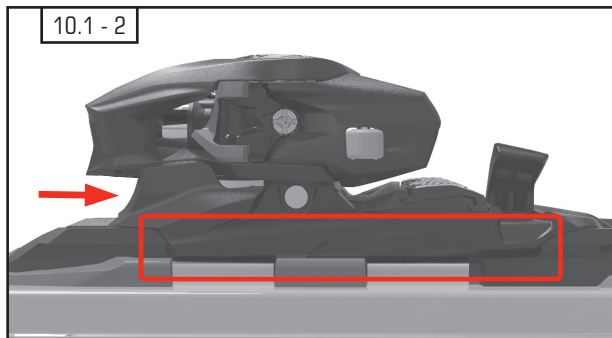
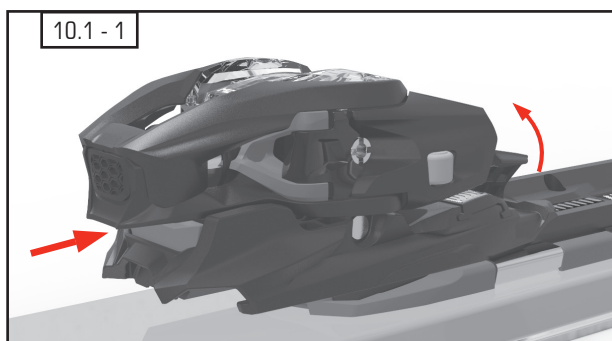
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

10.1 INSTALLATION OF MARKER / NORDICA FDT GRIPWALK MODELS

**IMPORTANT !**

Nordica FDT bindings are designed to mount only in conjunction with Nordica skis with premounted plate system. The suitable ski models are listed on the set label or can be requested from Nordica.

REMARK: (→ 18.3)

The binding models Xcell FDT, TPX FDT, TP2 light FDT, TP light FDT, TP2 Compact FDT, TP Compact FDT, TLT FDT and Free FDT GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

INSTALLING THE TOE:

- Open the locking lever and slide the toe piece from the front onto the plate. (10.1 - 1 & 10.1 - 2)

REMARK:

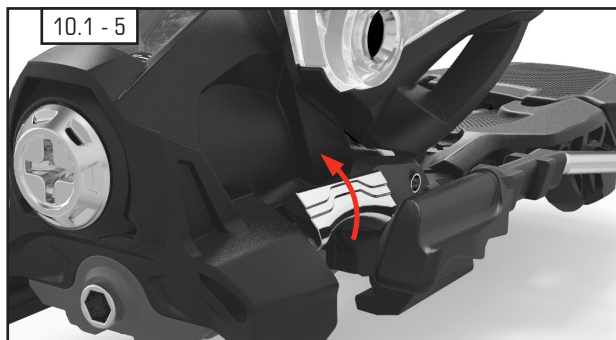
When mounting the binding models on the FDT Demo / FDT RTL plate systems slide the toe piece from the center onto the plate.

CAUTION !

Make sure that the toe spacer rails engage both sides of the base plate properly.

- Slide the toe to the correct sole length in accordance with the front sole length scale. (10.1 - 3)
- Close the toe locking lever. (10.1 - 4)

10.1 INSTALLATION OF MARKER / NORDICA FDT GRIPWALK MODELS



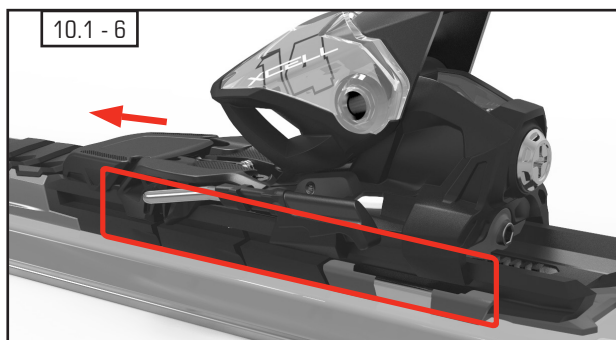
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (10.1 - 5)
- Slide the heel forward. (10.1 - 6)



CAUTION !

Ensure that the rails of the heel engage both sides of the base plate properly.



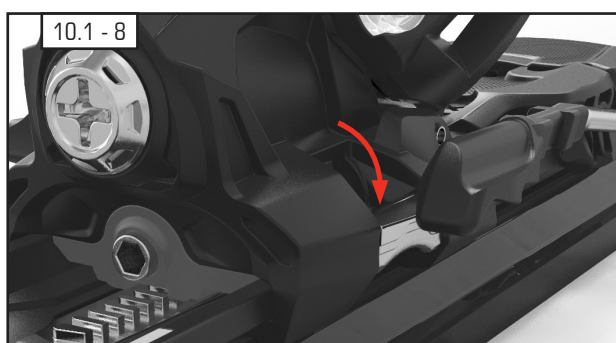
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (10.1 - 7)

- Close the heel locking lever. (10.1 - 8)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the forward pressure is correct when the imprinted line on the forward pressure indicator is visible in the cutout of the heel housing. (10.1 - 9)
If the forward pressure indicator line is not visible: remove the ski boot and readjust the boot sole length until the forward pressure indicator line is visible in the cutout.



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 12.1 - 12.3

REMARK:

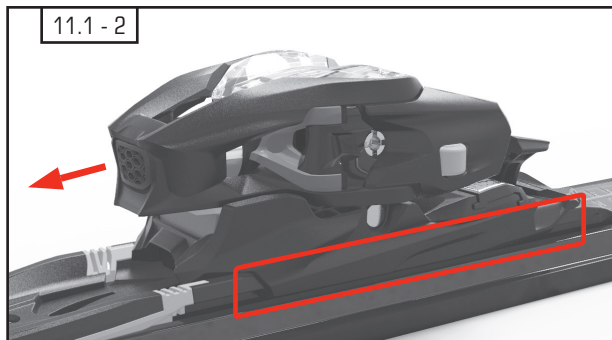
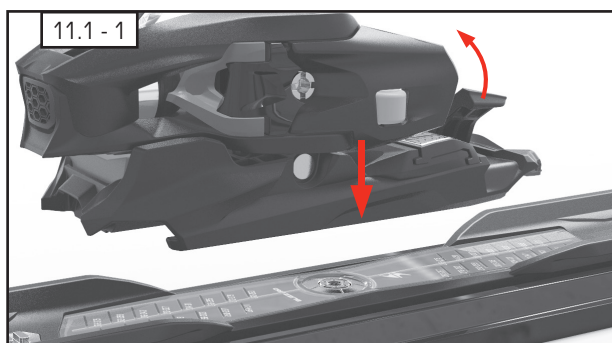
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 14.6



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder: ➔ 15.3

11.1 INSTALLATION OF MARKER / BLIZZARD DEMO (FDT GRIPWALK) MODELS



IMPORTANT !



Xcell Demo, TPX Demo, TLX Demo, TCX Demo, TLT Demo and TPC Demo bindings are designed to mount only in conjunction with Blizzard skis with premounted plate system. The suitable ski models are listed on the set label or can be requested from Blizzard.

REMARK: (→ 18.3)

The binding models Xcell Demo, TPX Demo, TLX Demo, TCX Demo, TLT Demo and TPC Demo GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (11.1 - 1 & 11.1 - 2)

REMARK:

When mounting the binding models on the FDT Race plate system slide the toe piece from the front onto the plate.

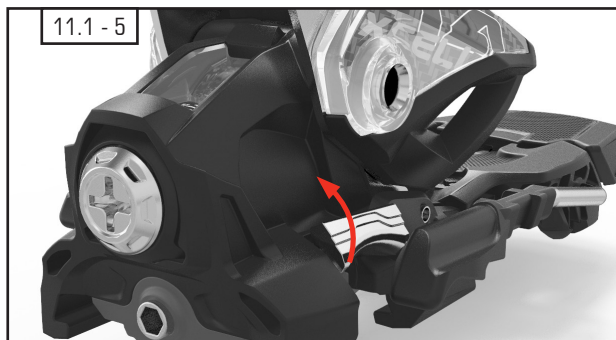
CAUTION !



Make sure that the toe spacer rails engage both sides of the base plate properly.

- Slide the toe to the correct sole length in accordance with the front sole length scale. (11.1 - 3)
- Close the toe locking lever. (11.1 - 4)

11.1 INSTALLATION OF MARKER / BLIZZARD DEMO (FDT GRIPWALK) MODELS



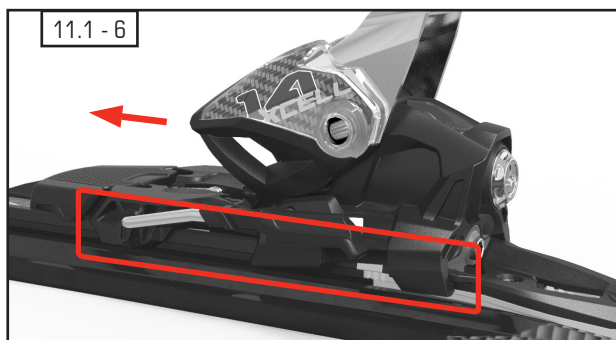
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (11.1 - 5)
- Slide the heel forward. (11.1 - 6)



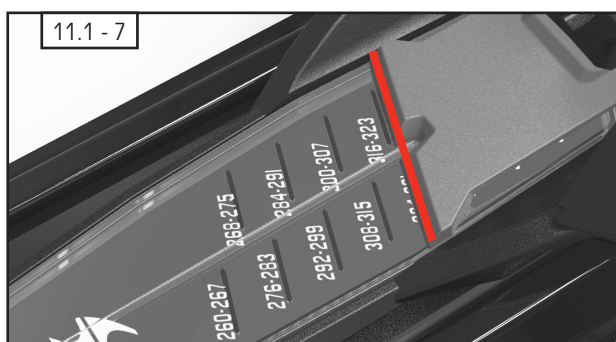
CAUTION !

Ensure that the rails of the heel engage both sides of the base plate properly.



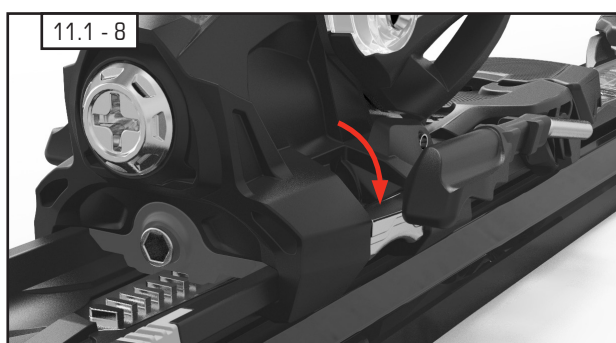
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (11.1 - 7)

- Close the heel locking lever. (11.1 - 8)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the forward pressure is correct when the imprinted line on the forward pressure indicator is visible in the cutout of the heel housing. (11.1 - 9)
If the forward pressure indicator line is not visible: remove the ski boot and readjust the boot sole length until the forward pressure indicator line is visible in the cutout.



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.6



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder: → 15.3

12.1 RELEASE VALUE SELECTION AND ADJUSTMENT



CAUTION !

The release value selection and adjustment has to be done very accurately to care for the skier's safety. As a MARKER certified technician you are required to keep accurate and complete records of all work performed on any MARKER binding.

→ 15.3

DETERMINE THE RELEASE VALUE:

BASIC PROCEDURE:

- First record all essential skier information:
- Skiers will classify themselves as skier Type I, II or III.
- Determine the exact release value with the tables and examples on the following pages.
- Adjust the release value at the binding.

SKIER CLASSIFICATION:

The following descriptions should enable skiers to classify themselves and their skier type in accordance with ISO 11088.

Keep in mind that the type of skier classification has nothing in common with the skier's ability. For example, many advanced skiers who have a smooth skiing style may be correctly classified as a Type II skier.

TYPE I SKIERS:

- Ski conservatively.
- Prefer slower speeds.
- Prefer smooth slopes of gentle to moderate pitch.
- Favor lower than average release / retention settings.
- Skiers who designate themselves Type I skiers accept a narrower margin of retention in order to gain a wider margin of release.
- Entry - level skiers uncertain of their classification should be classified as a Type I skier.

TYPE II SKIERS:

- Ski moderately.
- Prefer a variety of speeds.
- Ski on varied terrain, including „most difficult“.
- Are skiers who do not meet the descriptions of either Type I or Type III.

TYPE III SKIERS:

- Ski aggressively.
- Normally ski at higher speeds.
- Prefer steeper and more challenging terrain.
- Favor higher than average release / retention settings.
- Skiers who designate themselves Type 3 accept a narrower margin of release in order to gain a wider margin of retention.

This classification is not recommended for skiers with a weight of 21 kg or less (code A - C).

In this case classify the skier to Type 2.

SPECIAL CASES:

- Skiers who desire release / retention settings lower than Type I may designate themselves » I - «
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 pressure. In such cases the selection shall be indicated by a slash separating twist and forward lean selections respectively.

12.1 RELEASE VALUE SELECTION AND ADJUSTMENT



CAUTION !

For the determination of the release values the MARKER adjustment charts of the former seasons are no longer valid.

Use the present MARKER adjustment chart given in this manual → **12.1 - 1**

WEIGHT METHOD:

Determine the release value:

Necessary skier information:

- Weight
- Height
- Skier type
- Age
- Sole length

DETERMINE THE RELEASE VALUE (DIN - SETTING):

The value lines in the MARKER adjustment chart are marked with the letters A – O for a better orientation.

- Find the skier 's weight in the left hand column and the skier 's height in the next column. If the skier 's weight and height are not in the same line, move up the chart one row.
- The chosen line is determined for skier Type I. For skier Type II move down the chart one row, for skier type III move down the chart two rows.
- If the skier is age 50 or over, or younger than 10, move up the chart one row.
- Locate the given release value in the chart at the intersection of the last chosen row and the column with the boot sole length. If the intersection of the appropriate row and column is a blank box, move left or right on the same line of the chart to the nearest number that shows a release value.
- Adjust this release value on both toe and heel.

EXAMPLE:

Skier information:

- ▶ Weight: 170 lbs
- ▶ Height: 170 cm
- ▶ Skier type: III
- ▶ Age: 55
- ▶ Sole length: 320 mm

DETERMINE THE RELEASE VALUE (DIN - SETTING):

- ▶ Weight and height in row K
- ▶ Skier type III: move two rows down = row M
- ▶ For skiers age 50 or over, or age 10 or under, move up the chart one row = row L
- ▶ Column sole length 311 - 330 mm
- ▶ Result: release value 6


MARKER

2020/2021 ADJUSTMENT CHART

MANDATORY RELEASE VALUES					EXAMPLES FOR INITIAL INDICATOR VALUE (pre-setting), DEPENDENT ON BOOT SOLE LENGTH [mm]							
SKIERS' PARAMETERS			INSPECTION PARAMETERS									
WEIGHT [lbs] [kg]	HEIGHT [ft' in'] [cm]	SKIERS CODE	TWIST [Nm]	FWD LEAN [Nm]	≤230	231-250	251-270	271-290	291-310	311-330	331-350	≥351
			5*	18*								
22-29 10-13		A	8	29	0.75	0.75	0.75					
30-38 14-17		B	11	40	1.00	0.75	0.75	0.75				
39-47 18-21		C	14	52	1.50	1.25	1.25	1.00				
48-56 22-25		D	17	64	2.00	1.75	1.50	1.50	1.25			
57-66 26-30		E	20	75	2.50	2.25	2.00	1.75	1.50	1.50		
67-78 31-35		F	23	87	3.00	2.75	2.50	2.25	2.00	1.75	1.75	
79-91 36-41		G	27	102		3.50	3.00	2.75	2.50	2.25	2.00	
92-107 42-48	≤4'10" ≤148	H	31	120			3.50	3.00	3.00	2.75	2.50	
108-125 49-57	4'11"-5'1" 149-157	I	37	141			4.50	4.00	3.50	3.50	3.00	
126-147 58-66	5'2"-5'5" 158-166	J	43	165			5.50	5.00	4.50	4.00	3.50	3.00
148-174 67-78	5'6"-5'10" 167-178	K	50	194			6.50	6.00	5.50	5.00	4.50	4.00
175-209 79-94	5'11"-6'4" 179-194	L	58	229			7.50	7.00	6.50	6.00	5.50	5.00
≥210 ≥95	≥6'5" ≥195	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**	588**								
NOTE 1: For skiers 29 lbs and under, no further correction is appropriate. NOTE 2: For Skiers 38 lbs and under, Skier Type -I is inappropriate. * LOWEST TOLERANCE LIMIT ** HIGHEST TOLERANCE LIMIT			TORQUE RANGE newton meters 		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.							

Chart Based on "Skier Type I"


MARKER

12.1 RELEASE VALUE SELECTION AND ADJUSTMENT

12.1 - 1 ADJUSTMENT CHART ACCORDING TO ISO 11088

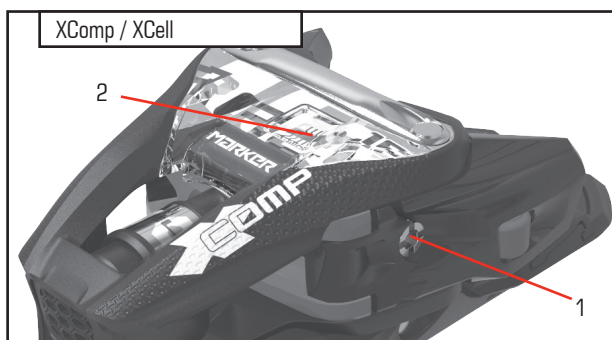
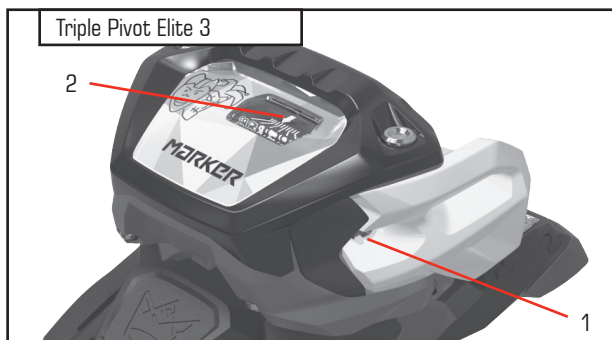
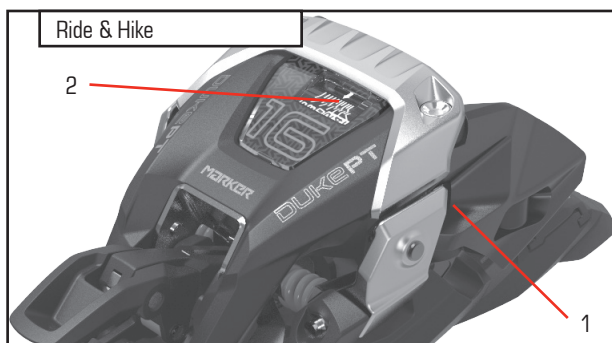
The values are given in this table for example purposes and may be written also in fractions.

- 1) For skiers 13 kg (29 lbs) and under, no further correction is appropriate.
- 2) For skiers 17 kg (38 lbs) and under, skier Type -1 is inappropriate.

The initial indicator values given in this table are suggested values for the beginning of the procedure.

A re - adjustment could be necessary in order to make the measure MZ and MY values coincide with the selected individual MZ and MY values within the limits stated in this table.

12.2 RELEASE VALUE SELECTION AND ADJUSTMENT



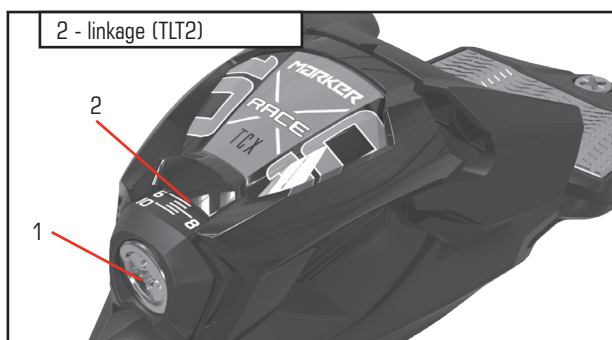
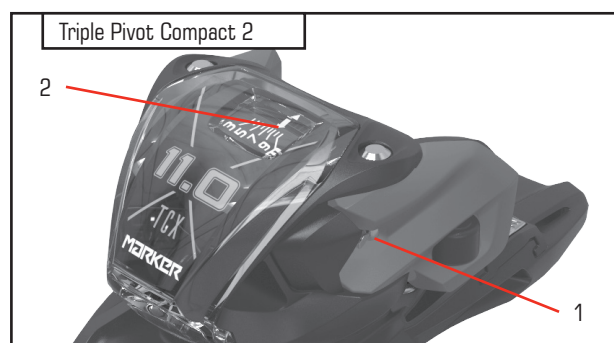
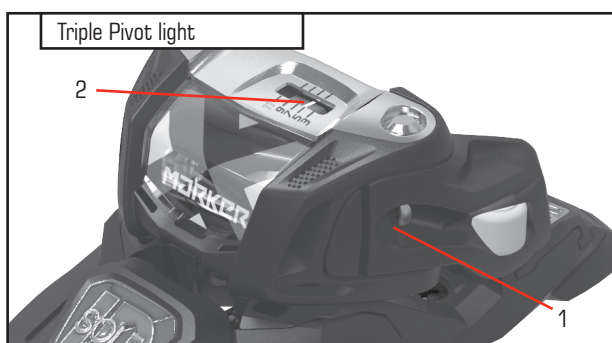
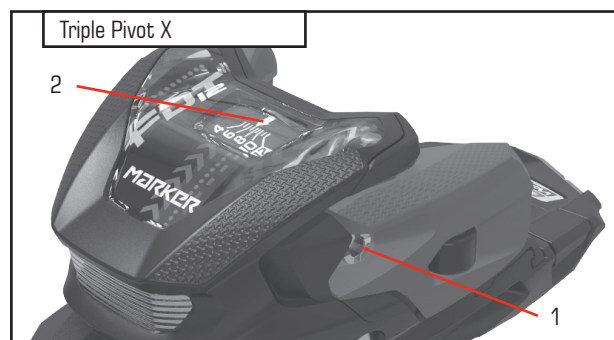
BINDING RELEASE FORCE ADJUSTMENT SCREWS AND RELEASE VALUE INDICATOR SCALES

REMARK:

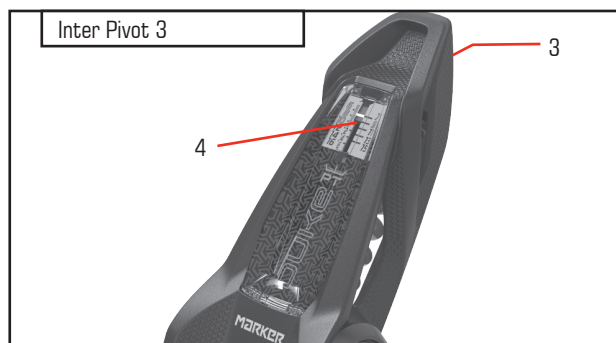
MARKER recommends adjustment with a Pozidriv® 3 screwdriver.

ADJUSTMENT SCREW AND INDICATOR SCALE ON THE TOE

- Turn the adjustment screw (1) until the indicator line aligns with the selected release setting on the appropriate indicator scale. (2)

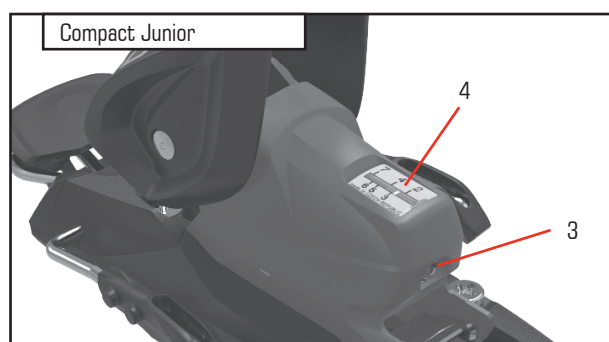
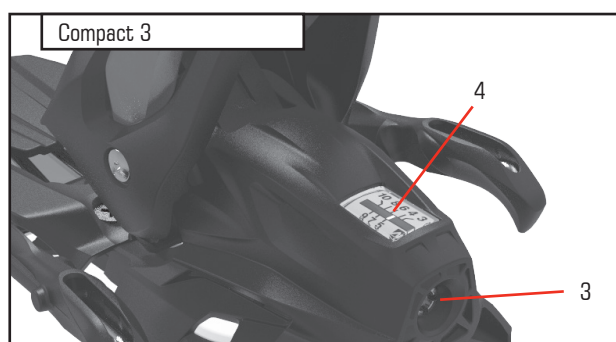
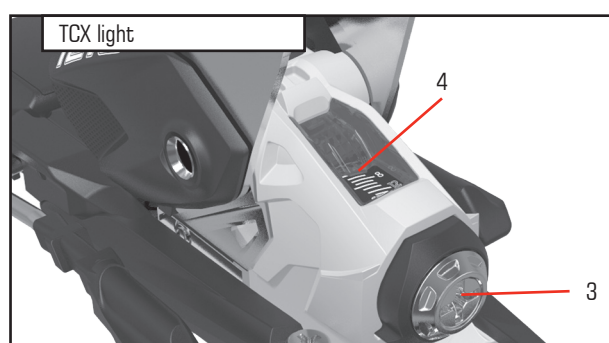
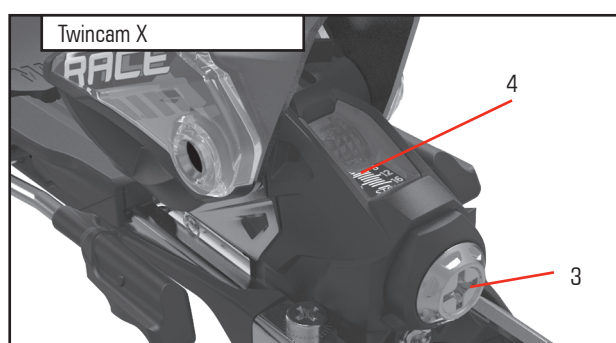
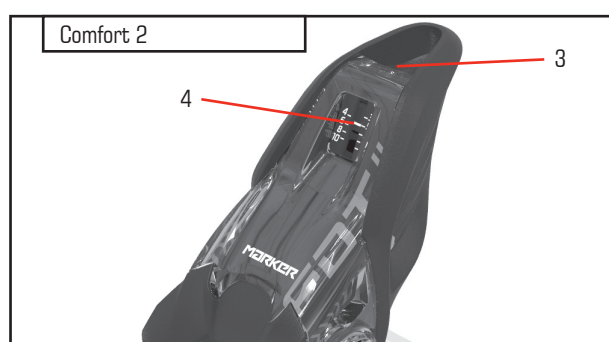
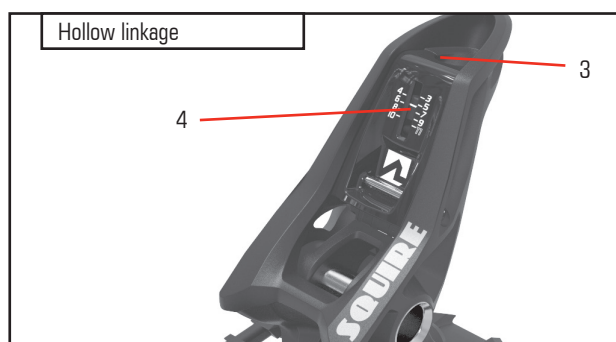
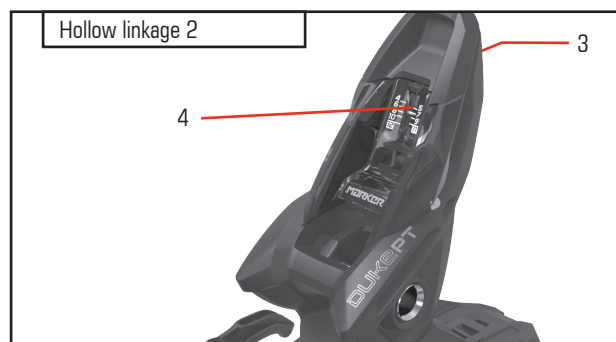


12.2 RELEASE VALUE SELECTION AND ADJUSTMENT



ADJUSTMENT SCREW AND INDICATOR SCALE ON THE HEEL

- Turn the adjustment screw (3) until the indicator line aligns with the selected release setting on the appropriate indicator scale. (4)



12.3 FUNCTION TESTING AND INSPECTION

After installation, adjustment and function test have been duly carried out, the binding should be tested with a calibrated testing device for ski bindings.



IMPORTANT !

See the information given by the manufacturer of the ski binding test device.

This function test should verify that the release torque ranges (mentioned in Nm) are within the limits of the tolerances and should be noted on a workshop form.

RELEASE VALUE TOLERANCE:

A release value tolerance of $\pm 15\%$ is valid according to ISO 11088. This equals a value in the MARKER Adjustment Chart → **12.1 - 1** in an area one line up and down of the chosen REFERENCE VALUE. See example → **12.3 - 1**, equivalent to the INSPECTION TORQUE RANGE. If the measured value is in this area, the system can be marked on the work order as "PASS".

LIMITING VALUE FOR NEW ADJUSTMENTS:

A release value limit of $\pm 30\%$ is valid for new adjustments according to ISO 11088. This equals a value in the MARKER Adjustment Chart → **12.1 - 1** in an area two lines up and down of the chosen REFERENCE VALUE. See example → **12.3 - 1**, equivalent to the IN-USE TORQUE RANGE.



IMPORTANT !

If the measured value is in the IN-USE TORQUE RANGE the system needs to go through the following steps.

- Inspect again the consistency of ski boot and binding and verify the adjustment of the binding. Follow the Troubleshooting instructions. → **12.4**
- Re - test the binding. If the measured value is still in the IN-USE TORQUE RANGE, correct the adjustment of the binding until the measured value is within the INSPECTION TORQUE RANGE. Use up to, but not more than, +2 or -2 indicator setting adjustments. The system can then be marked on work order as "PASS"

If the measured values are beyond the limits of the IN-USE TORQUE RANGE, follow the Troubleshooting instructions. → **12.4**

- Re - test the binding. If the measured value is in the IN-USE TORQUE RANGE, correct the adjustment of the binding until the measured value is within the INSPECTION TORQUE RANGE. Use up to, but not more than, +2 or -2 indicator setting adjustments. The system can then be marked on the work order as "PASS"

If the measured values are still beyond the limits of the IN-USE TORQUE RANGE, it is not allowed to correct the adjustment of the binding. Replace ski boot, binding or both. The system needs to be marked on the workshop form as "FAIL".

DELIVERY TO THE CUSTOMER:



IMPORTANT !

After all adjustments are done, deliver the customer the entire system together with the properly filled out workshop form.

→ **15.3**

EXAMPLE 12.3 - 1

SKIER CODE	TWIST [Nm]	FWD LEAN [Nm]	RELEASE VALUE TOLERANCE	INITIAL INDICATOR SETTING
J	43	165	IN-USE TORQUE RANGE	
K	50	194	INSPECTION TORQUE RANGE	
L	58	229	REFERENCE VALUE ←	6.00
M	67	271	INSPECTION TORQUE RANGE	
N	78	320	IN-USE TORQUE RANGE	

12.4 TROUBLE - SHOOTING

INSPECTION FOR NEW AND USED BINDINGS:

After you have set each toe and heel piece to the correct release value setting, perform the following test:

- Be sure that the ski and boot meet the visual inspection criteria described in → **chapter 2**.



IMPORTANT !

All used bindings should be cleaned before performing any inspections. Do not lubricate the gliding AFD, toe cups or heel cups.

FUNCTION TEST TOE:

Lateral elastic travel and return:

- With the ski held firmly, hit the forefoot of the boot with your hand or a rubber mallet. Displace the toe of the boot slightly (6 – 10 mm) through the retention zone but not far enough to trigger a release. The boot should travel back quickly and smoothly to the middle point. If the toe of the boot travels far enough to activate a partial release, re - insert the boot and re - test before continuing with any further inspection. Release the boot from the binding to the left and to the right. Proceed to function test the heel.

IF THE SYSTEM PASSES:

- Verify the release values with the testing device.

IF THE SYSTEM FAILS:

- Check that the boot was not displaced far enough to trigger a release.
- Check if the binding - to - boot adjustment is properly done. If not, re - adjust.
- Check that the boot is centered in the heel cup. Re - insert the boot.
- Check the gliding AFD for damage. Replace the toe if necessary.
- Check for non - standard boot or excessive wear. Replace boot if necessary.
- Check the toe for excessive wear or damage. Replace the toe if necessary.

BOOT SLIDES IN TOE CUP:

- Check that the forward pressure is not too low.
- Check for lubricant on boot or toe cups. Clean binding and boot.

TOE PIECE LOOSE:

- Check for missing, stripped or loose screws. Repair or replace if necessary.

FUNCTION TEST HEEL:

The following test is for all step - in heels.

Test for vertical elastic travel and return:

- Depress the opening lever of the binding while pulling forward lightly on the upper cuff of the boot. The heel of the boot should move slightly upward (about 5 mm) through the vertical retention range of the heel. Release both hands simultaneously. The boot should return quickly to the ski, and the opening lever should return quickly to its fullest upright position. If using a test device follow the manufacturer's instructions.

IF THE SYSTEM PASSES:

- Verify the release values with the testing device.

IF THE SYSTEM FAILS:

Heel will not close or closes with difficulty:

- Check for snow or dirt under the boot heel. Clean the sole if necessary.
- Check length adjustment and forward pressure. Re - adjust if necessary.
- Check for non - standard boot or excessive wear. Replace boot if necessary.
- Check that the boot enters the binding correctly. Confirm that the boot - to - binding contact is exact.

BOOT SLIDES IN HEEL SOLEHOLDER:

- Check that the forward pressure is not too low.
- Check for lubricant on boot or soleholder. Clean binding and boot.

13.1 - 13.4 SPECIAL CASES / REPLACING SKI BRAKES

13.1 COMPETITION BINDINGS:

For racers MARKER offers special competition ski bindings with higher release values. Please advise your customer that skiers skiing on such bindings are doing so at their own risk and liability.

13.2 MONOSKI:

MARKER ski bindings are designed for the use on a pair of skis. Any other use or the installation on a Monoski will not be covered by MARKER's indemnification or warranty.

13.3 ADJUSTMENT OUTSIDE OF THE STANDARDS:

If skiers request a release setting other than that recommended by the MARKER Adjustment Chart in this manual, or not in accordance with the standards, the shop may choose either to:

1- Adjust the system to MARKER's recommendations and instruct the skiers on how to change the setting themselves, should they wish to. The shop technician needs to make a note on the work form to this effect.

2- As a service to the skier the shop may wish to adjust the skier's system in accordance with the skier's wishes, even when this requested setting would fall outside of the MARKER Adjustment Chart's recommendations. If the shop provides this type of service, the system will only be indemnified if the skier signs a Special Warning Release Agreement → **18.8** in which they declare that the adjustment has been done at the skier's own risk.

13.4 REPLACING SKI BRAKES:

Within the scope of the binding adjustment the ski brakes should be subjected to a visual and functional test.

If the brakes are defective (if the brake arms are damaged, the brake platform or brake pedal are worn) or a wider brake is necessary the pair of brakes should be replaced.

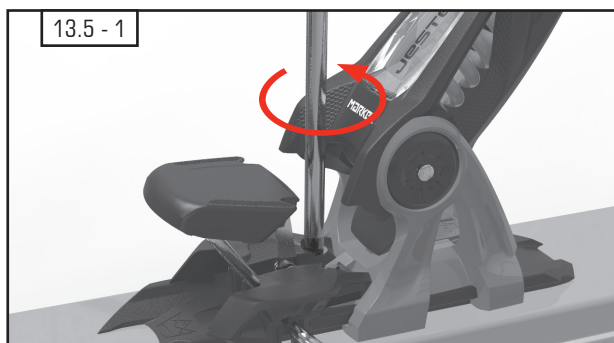
MARKER offers ski brakes with different widths for replacement.

REMARK

To determine the correct brake width for the ski, measure the ski width approximately 200 mm behind the mid ski mark.

- Replacing ski brakes see → **13.5 - 13.7**
- Brake chart see → **18.2**

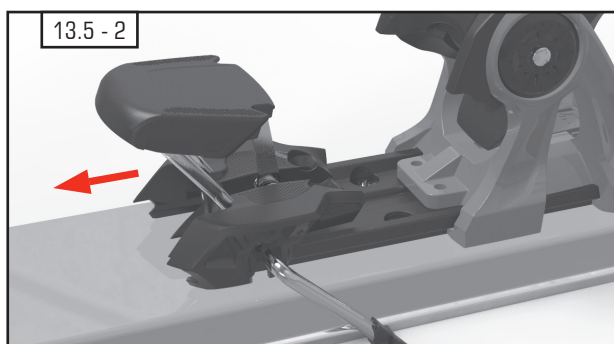
13.5 REPLACING SKI BRAKES



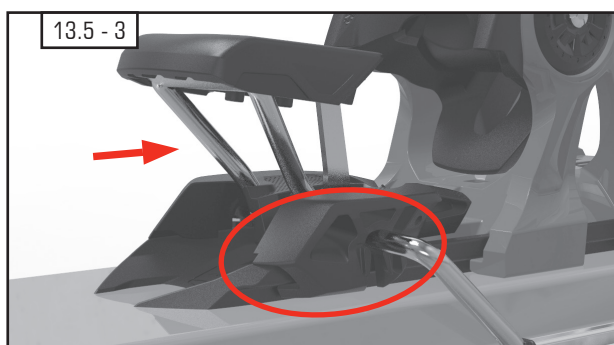
REPLACING THE SKI BRAKES DUKE PT, ROYAL FAMILY, FDT & TOUR:

DEMOUNT THE SKI BRAKE:

- Remove the attachment screws of the ski brake (13.5 - 1).

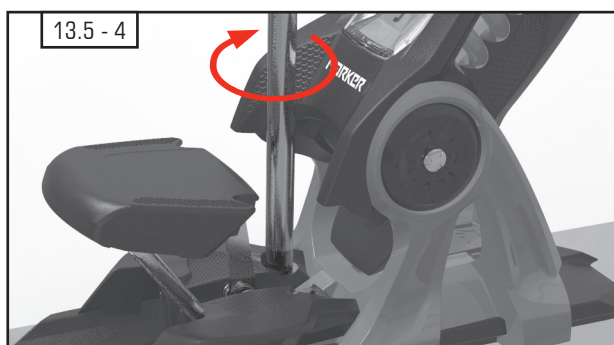


- Pull the ski brake forward to remove (13.5 - 2).



INSTALL THE NEW SKI BRAKE:

- Slide in the ski brake. Make sure that the new brake is fully and uniformly sliding into the attachments of the heel plate (13.5 - 3).
- Slide the ski brake backward until it stops. (13.5 - 3).
- Tighten the attachment screws of the ski brake (13.5 - 4).

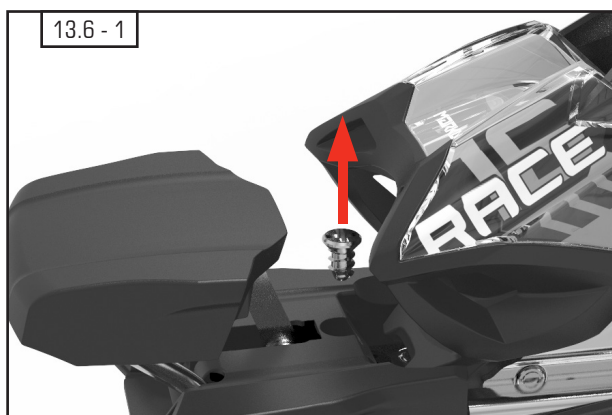


REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 18.2

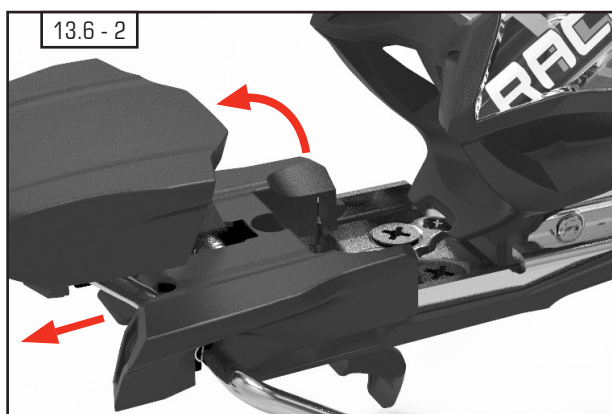
13.6 REPLACING SKI BRAKES



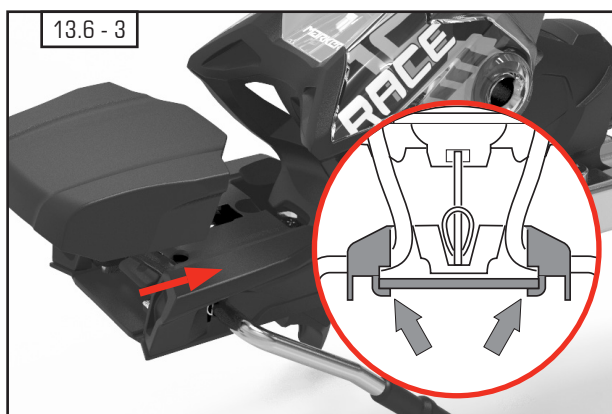
REPLACING THE SKI BRAKES XCOMP, XCELL, RACE 10 & 8, 12.0 TCX, 11.0 TC:

DEMOUNT THE SKI BRAKE:

- Remove the attachment screw of the ski brake (13.6 - 1).



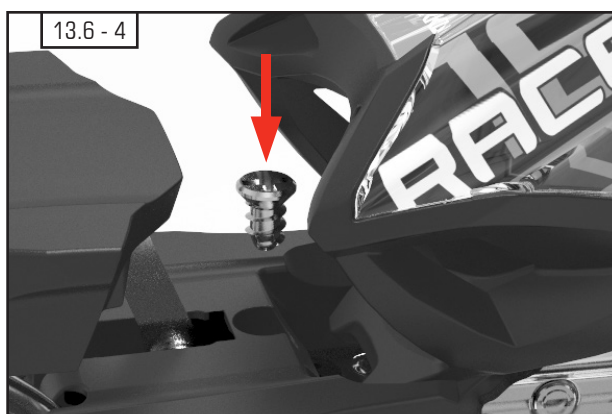
- Pull the ski brake slightly forward to remove (13.6 - 2).

**INSTALL THE NEW SKI BRAKE:**

- Slide in the ski brake. Make sure that the metal hooks of the brake base latch beneath the metal base plate of the heel. (13.6 - 3)

- Slide the ski brake backward until it stops.

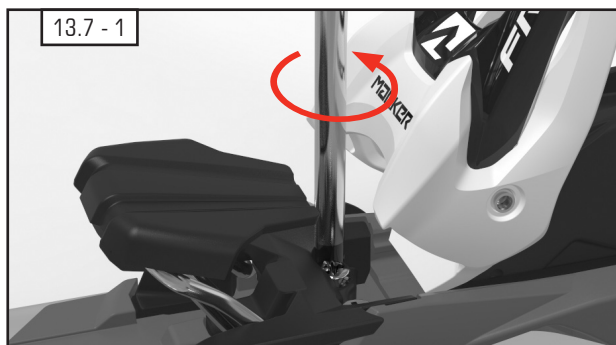
- Tighten the attachment screw of the ski brake (13.6 - 4).

**REMARK:**

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 18.2

13.7 REPLACING SKI BRAKES



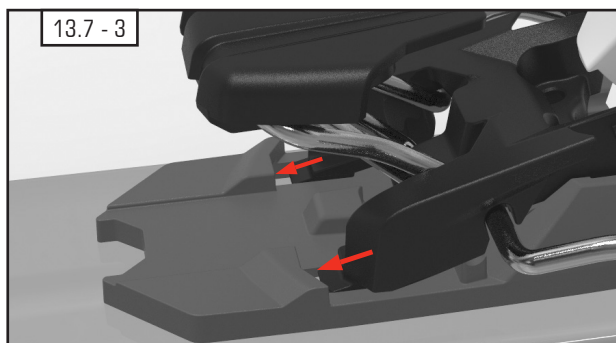
REPLACING THE SKI BRAKES 10.0 TP:

DEMOUNT THE SKI BRAKE:

- Remove the ski brake attachment screws (13.7 - 1).

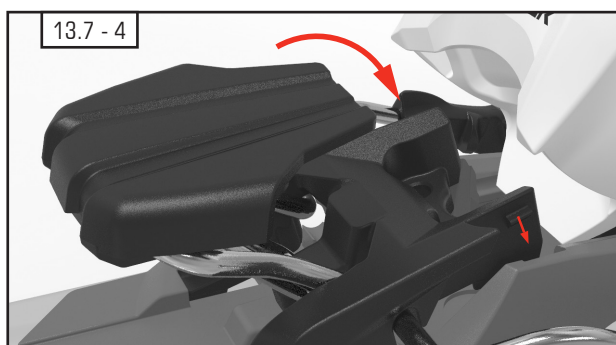


- Pivot the rear brake platform hooks carefully to remove the ski brake (13.7 - 2).



INSTALL THE NEW SKI BRAKE:

- Engage the front of the brake platform and feed the rear hooks into the notches of the spacer. Make sure that the new brake is locked in place (13.7 - 3 and 13.7 - 4).

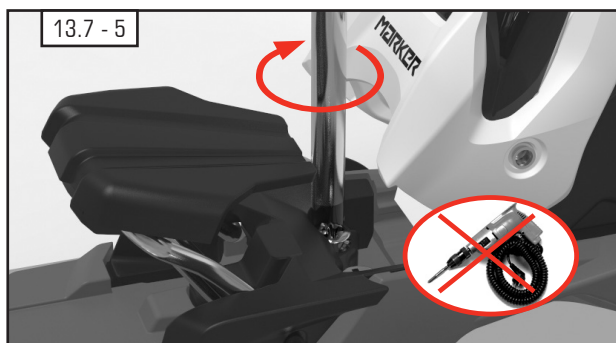


- Tighten the attachment screws carefully by hand (13.7 - 5).



IMPORTANT !

Tighten the screws by hand, do not use a power drill !

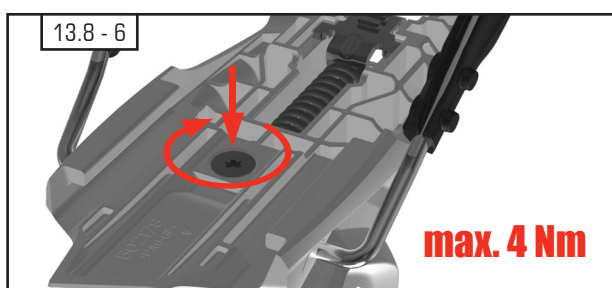
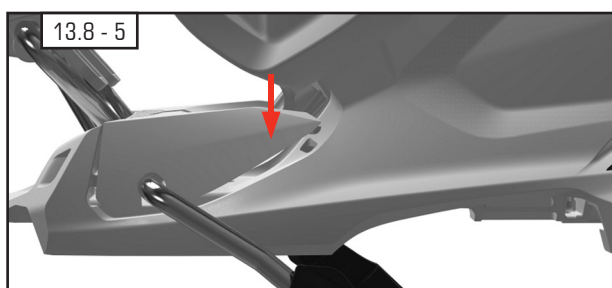
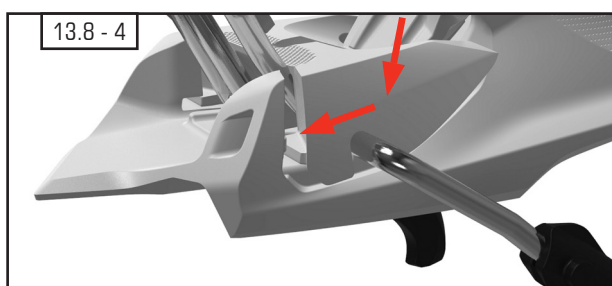
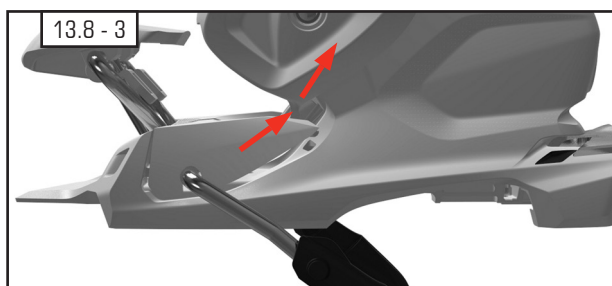
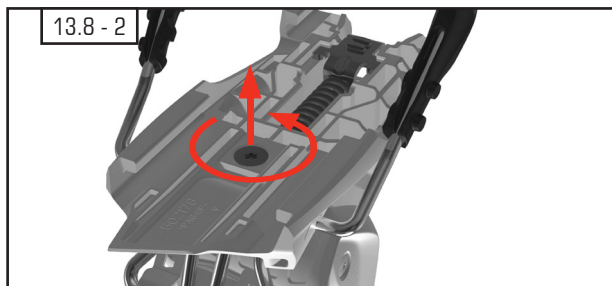
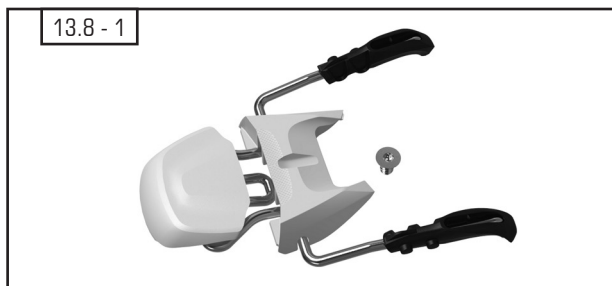


REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 18.2

13.8 REPLACING SKI BRAKES



REPLACING THE SKI BRAKES FDT JUNIOR



REMARK:

For the binding models FDT Junior the brake with the premounted heel platform is used. (13.8 - 1)

DEMOUNT THE SKI BRAKE:

- Remove the attachment screw of the ski brake (13.8 - 2).
- Pivot the rear brake platform hooks carefully to remove the ski brake (13.8 - 3).

INSTALL THE NEW SKI BRAKE:

- Engage the front of the brake platform and feed the rear hooks into the notches of the spacer. Make sure that the new brake is locked in place. (13.8 - 4 and 13.8 - 5).
- Tighten the attachment screws carefully by hand. (13.8 - 6)



IMPORTANT !

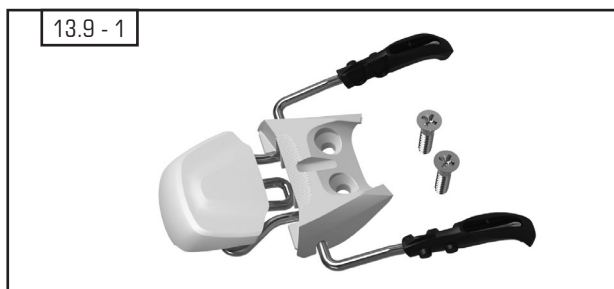
Tighten the screws by hand, do not use a power drill !

REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 18.2

13.9 REPLACING SKI BRAKES

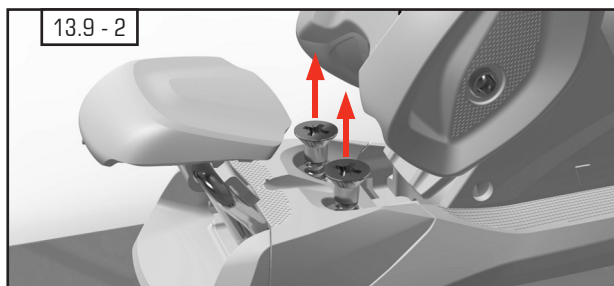


REPLACING THE SKI BRAKES JUNIOR EPS



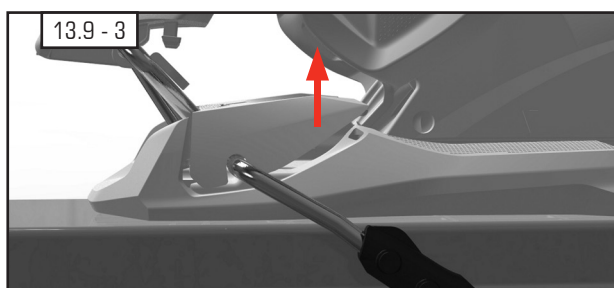
REMARK:

For the binding models Junior EPS the premounted heel platform has to be replaced by the enclosed EPS heel platform. (13.9 - 1)

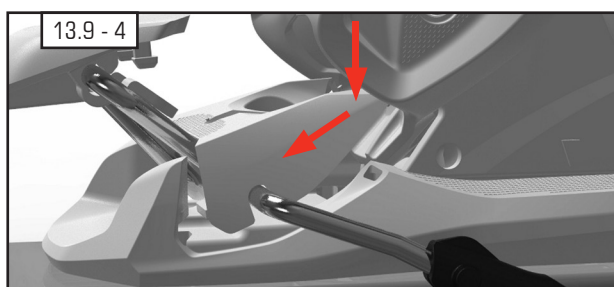


DEMOUNT THE SKI BRAKE:

- Remove the attachment screws of the ski brake (13.9 - 2).

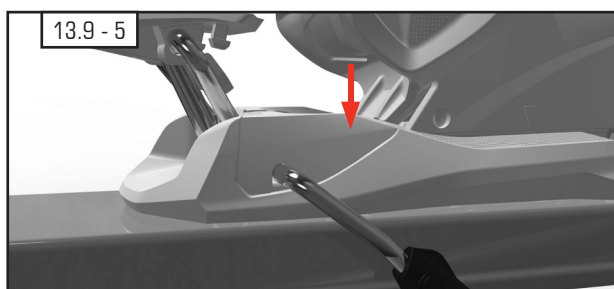


- Pivot the rear brake platform hooks carefully to remove the ski brake (13.9 - 3).

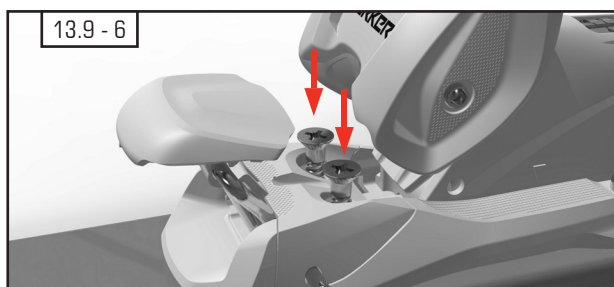


INSTALL THE NEW SKI BRAKE:

- Engage the front of the brake platform and feed the rear hooks into the notches of the spacer. Make sure that the new brake is locked in place. (13.9 - 4 and 13.9 - 5).



- Tighten the attachment screws carefully by hand. (13.9 - 6)



IMPORTANT !

Tighten the screws by hand, do not use a power drill !

REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 18.2

14.1 GENERAL INFORMATION

14.1 - 1



DEFINITION OF GRIFFON D / TCX D & SQUIRE D BINDINGS: (14.1 - 1)

MARKER Griffon D / TCX D and Squire TCX D models have adjustable toes and adjustable heels.

Adjustment range (in 4 mm steps)

	mm	toe	heel
Griffon D Griffon TCX D Squire TCX D	260 - 388	64 mm	64 mm

14.1 - 2



DEFINITION OF FDT BINDINGS: (14.1 - 2)

MARKER FDT bindings have adjustable toes and adjustable heels.

Adjustment range (in 4 mm steps)

	mm	toe	heel
FDT TPX FDT TP FDT TLT	260 - 388	64 mm	64 mm

14.1 - 3



DEFINITION OF JUNIOR RENTAL BINDINGS: (14.1 - 3)

Junior Rental (RTL) bindings have fixed toes and movable heels.

Adjustment range (in 4 mm steps)

	mm	toe	heel
7.0 RTL	240 - 304	-	64 mm
4.5 RTL	200 - 264	-	64 mm

14.1 - 4



DEFINITION OF FDT JUNIOR BINDINGS: (14.1 - 4)

FDT Junior bindings have adjustable toes and adjustable heels.

Adjustment range (in 4 mm steps)

	mm	toe	heel
FDT 4.5	190 - 285	48 mm	48 mm
FDT 7.0	235 - 330	48 mm	48 mm

14.1 GENERAL INFORMATION

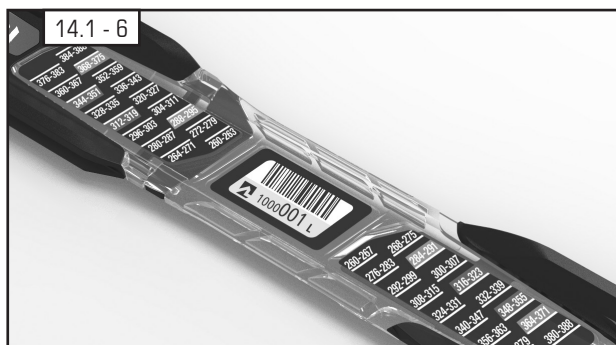


GENERAL INFORMATION BINDING - TO - BOOT ADJUSTMENT

For the correct binding - to - boot adjustment there are number codes, respectively sole length scales on the Griffon D, Griffon TCX D & Squire TCX D, FDT Demo, Fastrak III, Junior RTL and FDT Junior bindings:

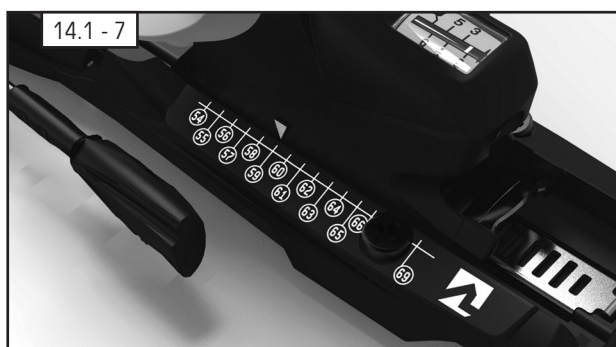
Griffon D & Griffon TCX D & Squire TCX D:

Sole length in mm (260 – 388) is marked on the toe - and heel plates. (14.1 - 5)



FDT Demo System:

Sole length in mm (260 – 388) is marked on the FDT Demo middle plate. (14.1 - 6)



7.0 RTL / 4.5 RTL:

Number codes are placed on the heel spacers. (14.1 - 7)

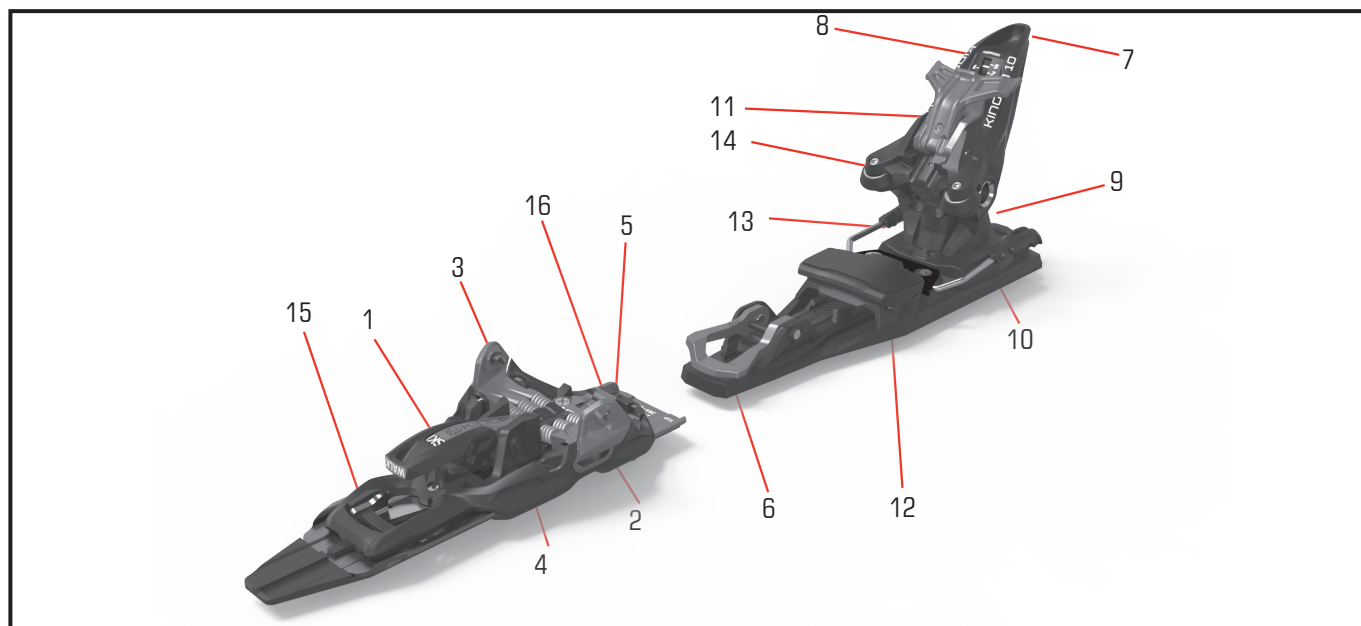
7.0 RTL	Code 54 – 69	240 – 304 mm
4.5 RTL	Code 44 – 59	200 – 264 mm



FDT Junior:

Sole length in mm (235 - 330 mm large; 190 - 285 mm small) is marked on the FDT Junior toe - and heel plates (14.1 - 8)

14.2 MARKER KINGPIN DEMO BINDING COMPONENTS



MARKER KINGPIN & KINGPIN DEMO BINDING COMPONENTS:

- 1 - Opening lever toe
- 2 - Soleholder toe
- 3 - Pin-Tech toe retaining pins
- 4 - Step-in aids toe
- 5 - Crampon holder
- 6 - Change-over lever for ascent mode
- 7 - Opening lever heel
- 8 - Indicator scale heel vertical release
- 9 - Indicator scale twist release
- 10 - Heel housing
- 11 - Hiking aids 1 and 2
- 12 - Brake pedal
- 13 - Brake arm
- 14 - XXL-Power transmitter
- 15 - Demo length adjustment lever
- 16 - Demo front plate with length scale



CAUTION !

MARKER KINGPIN and KINGPIN DEMO ski bindings are compatible with ski boots in accordance with DIN ISO 9523 with tech inserts to the Dynafit specification of 29.09.2009. In addition, some boot manufacturers have developed and manufactured their own inserts for their touring ski boots which should be suitable for Pin-Tech bindings. However, Marker cannot guarantee that these inserts will function correctly.



Boots that do not support the settings described in this Marker technical manual (chapter → 12.1 - 12.3) should not be used with Marker Pin-Tech bindings !



NOTE:

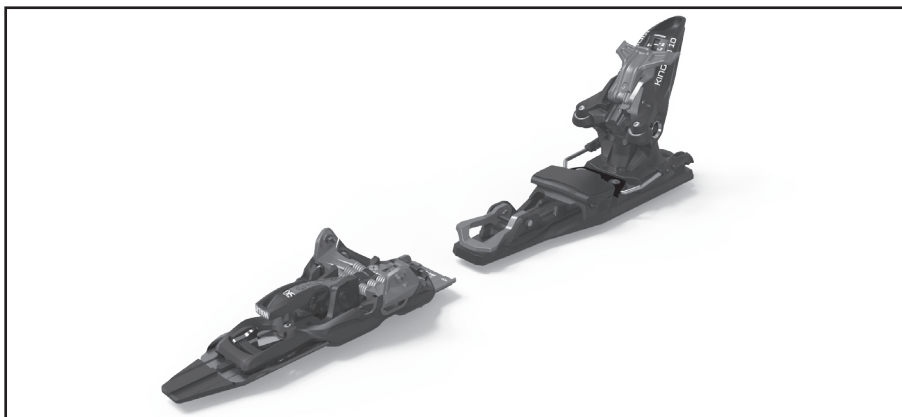
K2, Dalbello, Tecnica, Nordica boots that have Alpine Boot Sole dimensions and tech inserts are compatible with all Marker Kingpin bindings.



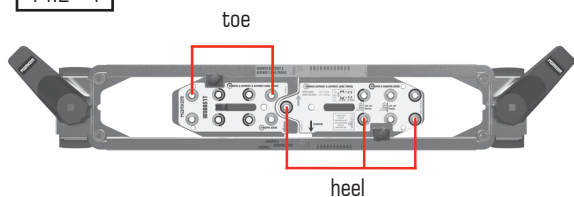
NOTE:

Marker's DIN Adapter must be used on specific AT Boots that do not comply with ISO 9523 boot sole dimensions.
→ 16.6

14.2 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS

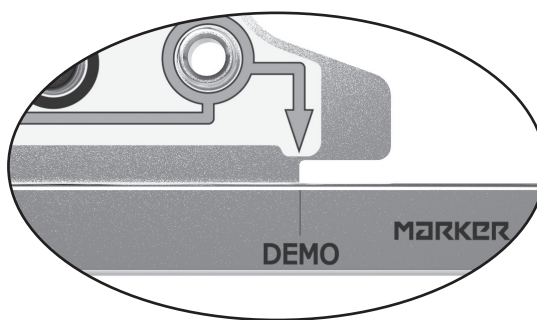


14.2 - 1

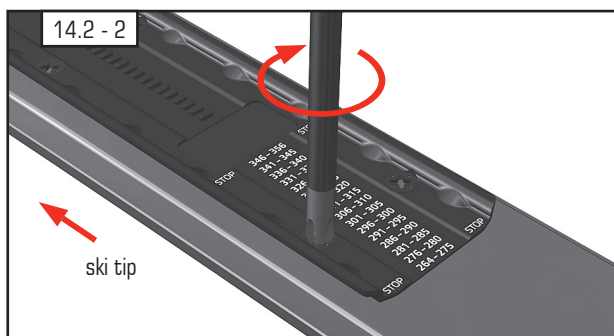


DRILLING THE ATTACHMENT HOLES:

- Adjusting the installation tool: the arrow "Demo" on the front drill plate must be aligned with the marking "Demo" on the frame.

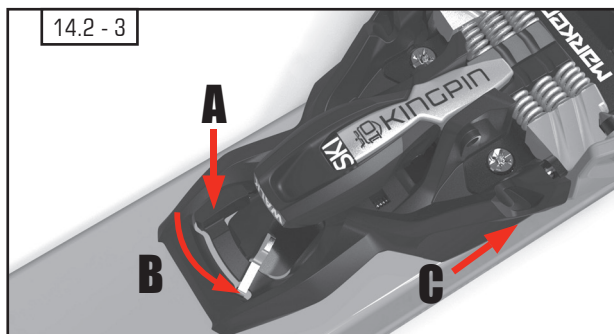


14.2 - 2



- Place the MARKER KINGPIN & ALPINIST installation tool W008S1T in the correct position on the ski. (14.2 - 1)
- Drill 4 holes for the toe through the front silver drill bushings.
- Drill 5 holes for the heel plate through the rear black marked drill bushings.
- Remove the installation tool from the ski.

14.2 - 3



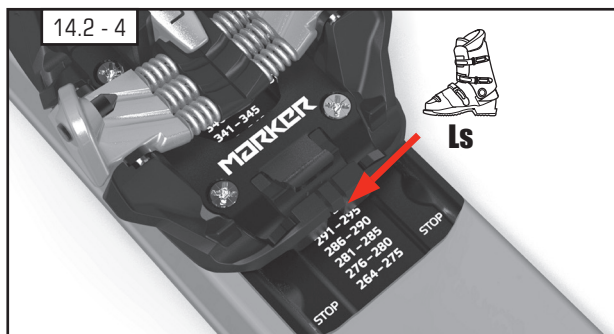
REMARK:

See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE TOE PLATE:

- Place the toe plate onto the ski.
- Insert the enclosed screws. Tighten the screws lightly, then firmly. (14.2 - 2)

14.2 - 4



INSTALLING THE TOE:

- Press down the lever lock and open the lever. Slide the toe with lever open from the front of the plate backward. (14.2 - 3)
- Slide the toe backward to the correct sole length in accordance with the sole length scale. (14.2 - 4)

14.2 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS



- Close the locking lever. (14.2 - 5)



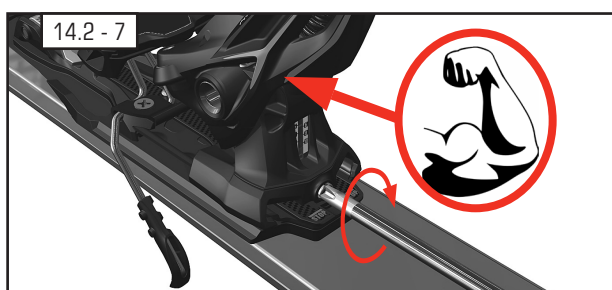
CAUTION !

Ensure that the lever is engaged properly !



INSTALLING THE HEEL PLATE:

- Install the heel plate with the pre - installed screws in the rear holes.
- Tighten the screws lightly, then firmly. (14.2 - 6)



INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops. (14.2 - 7)

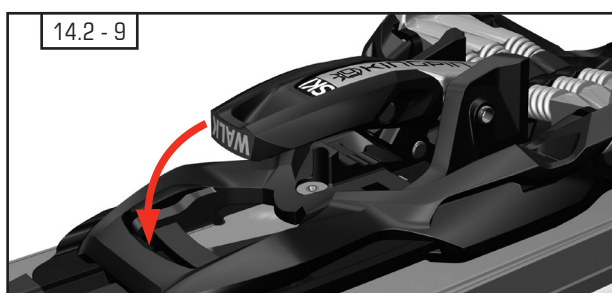


- With strong pressure, screw the heel forward onto the plate by turning the forward pressure adjustment screw. (14.2 - 8)

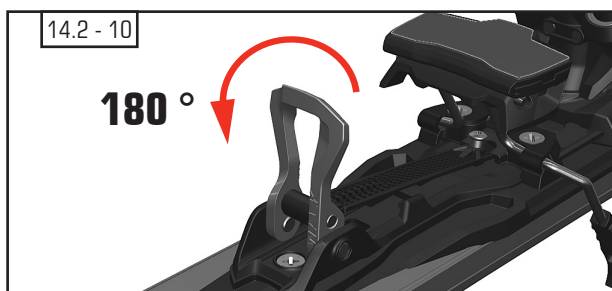


CAUTION !

Screw the heel onto the heel plate by hand !



- Open the toe by pressing down the toe opening lever. (14.2 - 9)

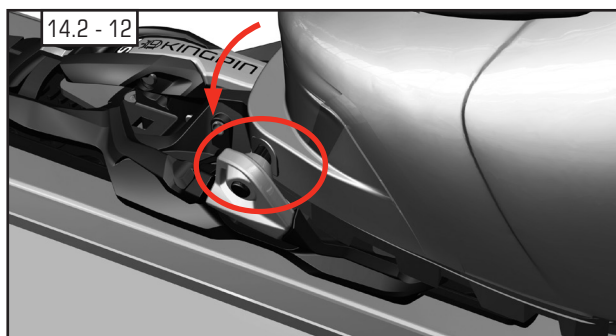


- Switch the change-over lever 180° forward. (14.2 - 10)

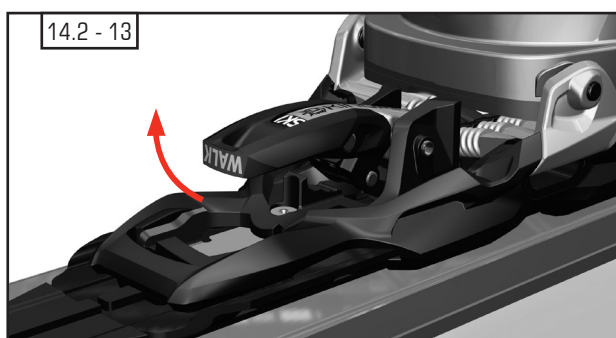
14.2 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS



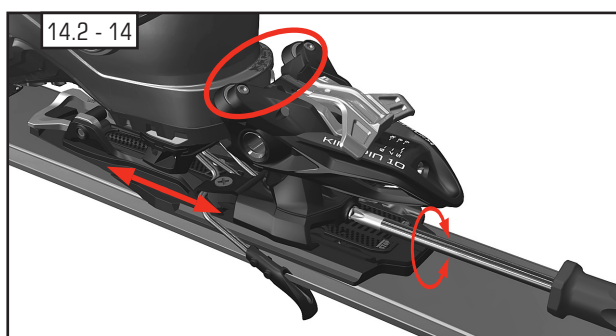
- Open the heel. (14.2 - 11)



- Position the tip of the ski boot between the Pin-Tech retaining pins on the toe. Then press the tip of the boot down and step into the toe. (14.2 - 12)

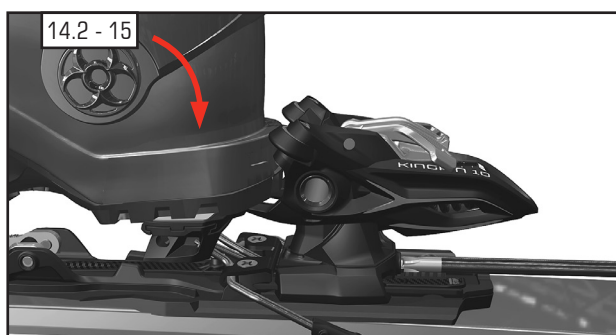


- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (14.2 - 13)



POSITIONING THE HEEL:

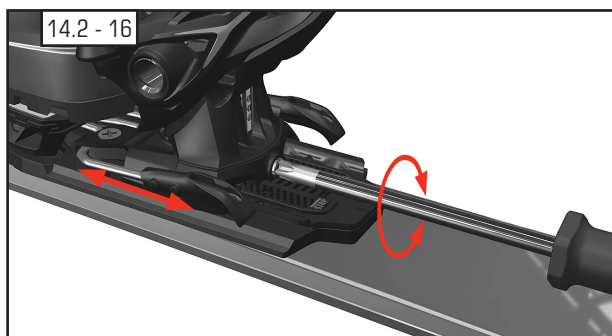
- Place the ski boot into the binding and turn the adjustment screw until the position of the heel is approximately right. (14.2 - 14)



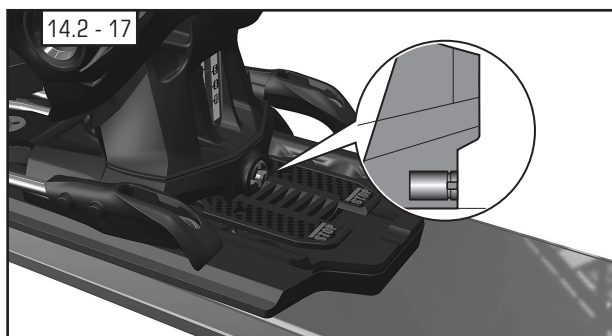
CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it. (14.2 - 15)

14.2 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS



- Correct forward pressure:
Check if the forward pressure adjustment screw is flush with the back of the heel housing. If this adjustment is incorrect, turn the screw until it is flush with the back of the housing. (14.2 - 16 and 14.2 - 17)



- Remove the ski boot, then re - insert it into the binding and recheck the adjustment.



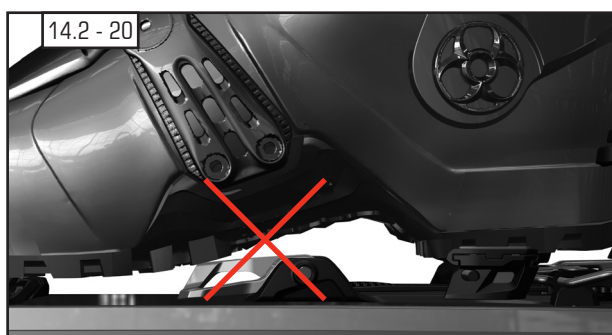
IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (14.2 - 18)



CAUTION !

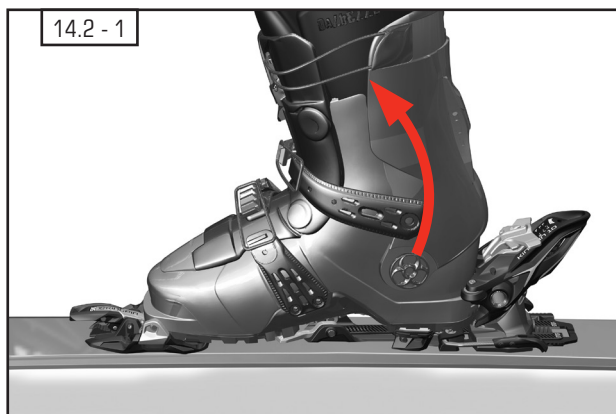
After altering the binding, visually inspect the spacing between the boot sole and the change-over lever: the sole may not touch the lever after stepping in ! (14.2 - 19 and 14.2 - 20)



INFORMATION FOR BINDING ADJUSTMENT:

see chapter → 14.3

14.2 MARKER KINGPIN DEMO - INFORMATION FOR BINDING ADJUSTMENT



BINDING RELEASE FORCE ADJUSTMENT SCREWS AND RELEASE VALUE INDICATOR SCALES

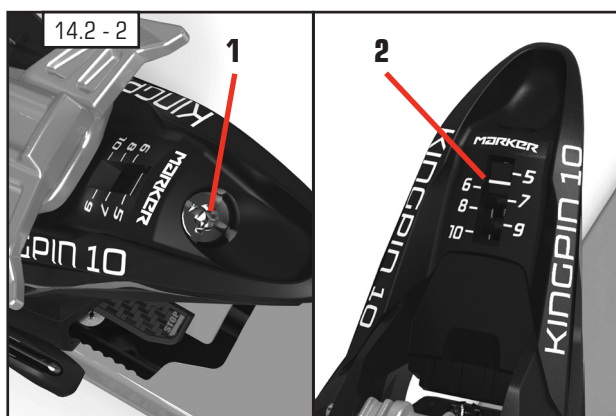
REMARK:

MARKER recommends adjustment with a Pozidriv® 3 screwdriver.

ADJUSTMENT SCREWS AND INDICATOR SCALES ON THE HEEL

VERTICAL RELEASE (14.2 - 1)

- Turn the adjustment screw (1) until the indicator line aligns with the selected release setting on the indicator scale (2). (14.2 - 2)

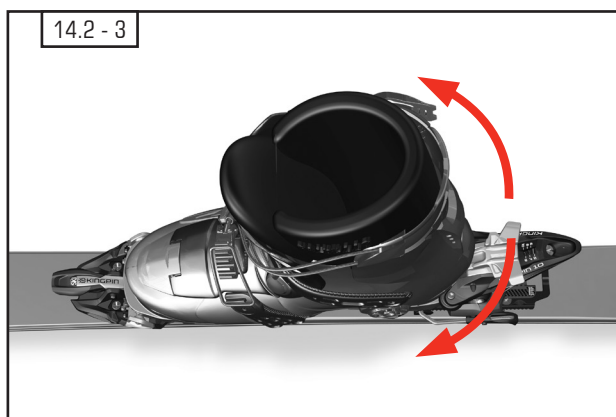


LATERAL RELEASE (14.2 - 3)

REMARK:

To adjust the lateral release value fold down both hiking aids.

- Turn the adjustment screw (3) until the indicator line aligns with the selected release setting on the indicator scale (4). (14.2 - 4)



FUNCTION TEST AND SERVICE

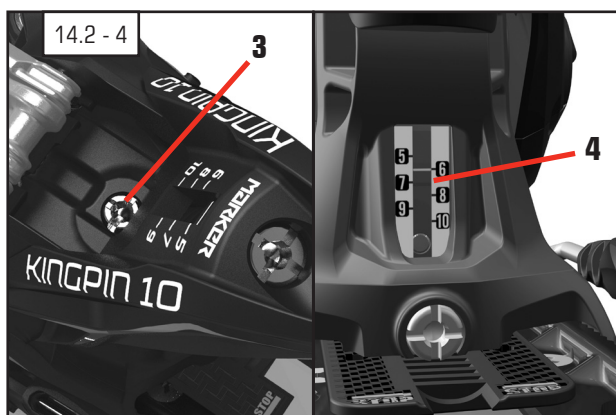
KINGPIN bindings can be tested without restrictions on and with standard setting and calibration equipment.

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

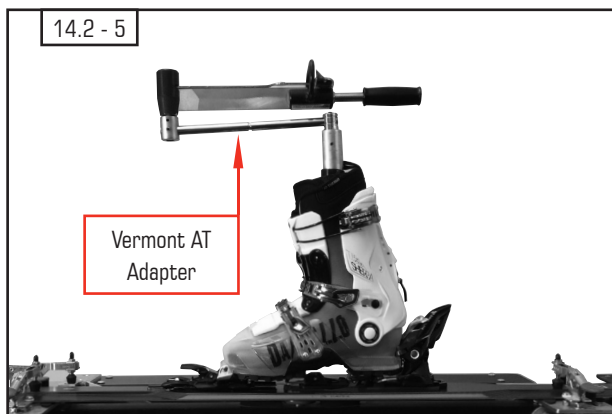
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



CAUTION ! The release value selection and adjustment have to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

14.2 MARKER KINGPIN DEMO - INFORMATION FOR BINDING ADJUSTMENT



FUNCTION TEST AND SERVICE

KINGPIN DEMO bindings can be tested on calibration equipment with standard settings.

For all MARKER KINGPIN DEMO models, a distinction must be made between calibration equipment that work purely based on torque (e.g. Vermont Calibrator, Montana, etc.) or calibration equipment that initiates a trigger via a lever arm to which force is applied (e.g. Wintersteiger, Sportech, etc.).

VERMONT CALIBRATOR - TORQUE BASED

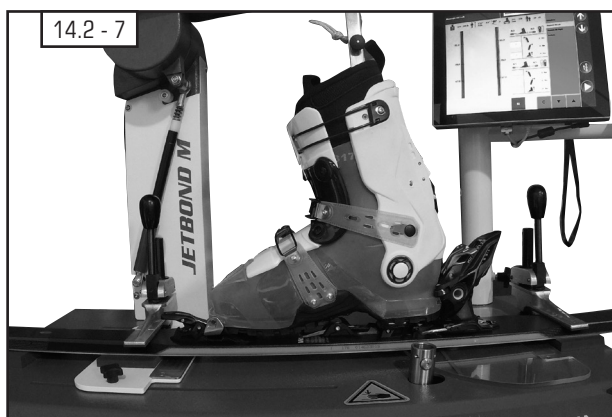
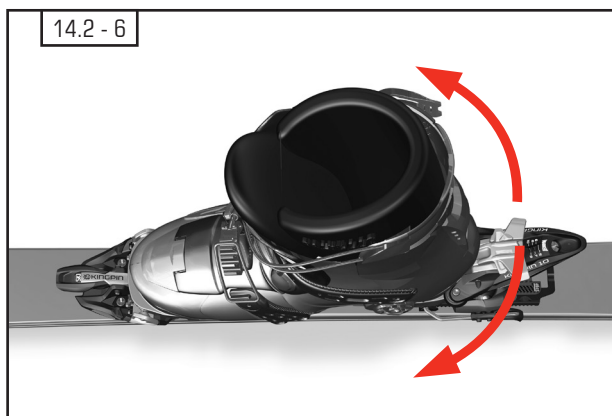
Twist Function Testing:

The Vermont AT Adapter is needed for proper twist function testing out of the heel (available through Vermont Ski Safety). (14.2 - 5)

- The procedure is then identical to the procedure for all other Marker bindings. (14.2 - 6)

Vertical Release Function Testing:

- The procedure is then identical to the procedure for all other Marker bindings.



MONTANA AND OTHER TORQUE BASED MACHINES

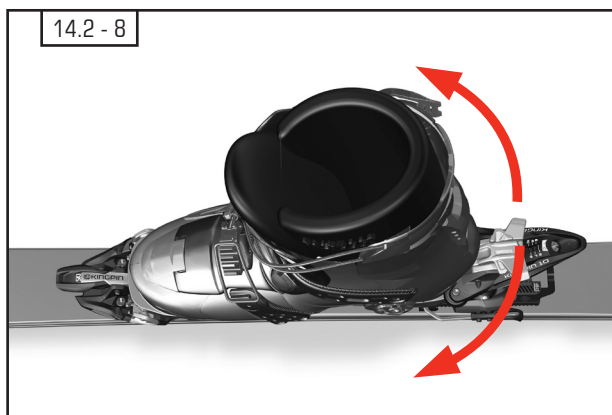
Twist Function Testing:

Set up machine for a Children test. All heel straps, posts and automatic heel engagement systems must be away allowing the heel to twist without obstruction. (14.2 - 7)

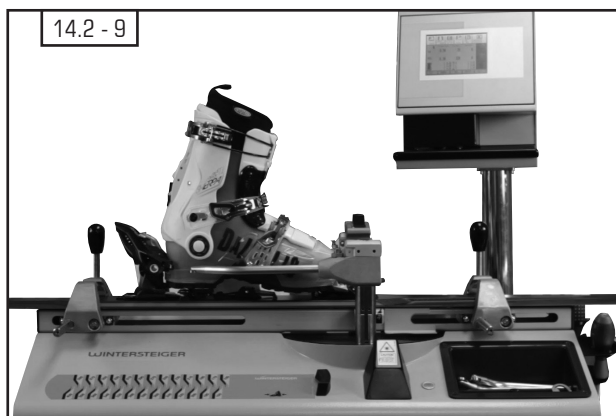
- The procedure is then identical to the procedure for all other Marker bindings. (14.2 - 8)

Vertical Release Function Testing:

- The procedure is then identical to the procedure for all other Marker bindings.



14.2 MARKER KINGPIN DEMO - INFORMATION FOR BINDING ADJUSTMENT

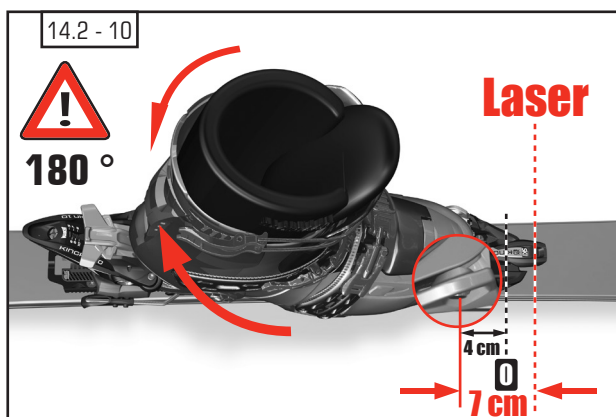


WINTERSTEIGER, SPORTECH

Machines that initiate a trigger via a lever arm to which force is applied.

Twist Release Function Testing:

- Place ski into machine with boot toe/ski tip in opposite direction as normal setup. (Lever arms will push heel laterally.) (14.2 - 9)
- Align the center of the binding pins 7cm to the left of the laser line (4cm from the 0 alignment mark). (14.2 - 10)
- Adjust lever arms to contact heel on smooth plastic and clear from brake contact. (14.2 - 10)



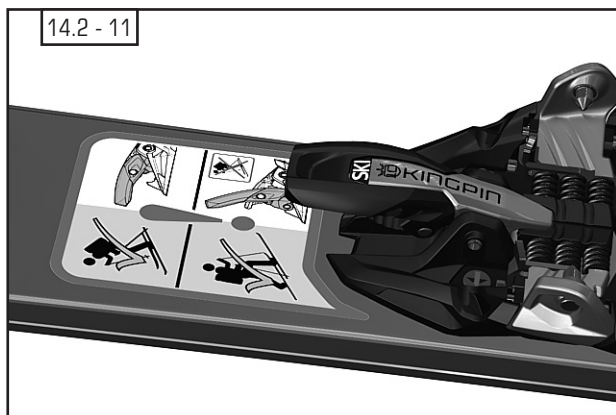
- The procedure is then identical to the procedure for all other Marker bindings. (14.2 - 10)

Vertical Release Function Testing:

- The procedure is then identical to the procedure for all other Marker bindings.

REMARK:

If you have any further questions on checking the binding with calibration equipment, please contact the Marker sales department or the manufacturer of the calibration equipment.



REMARK:

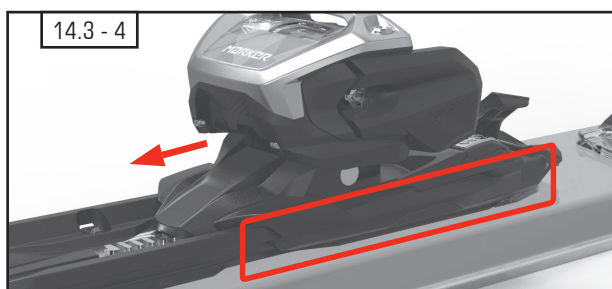
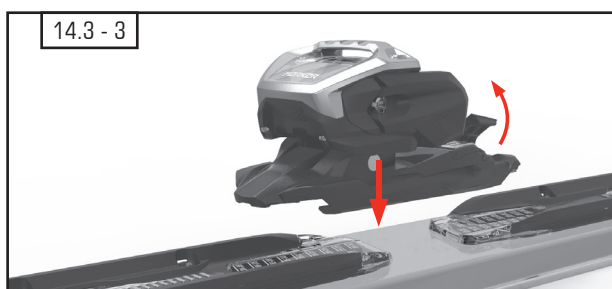
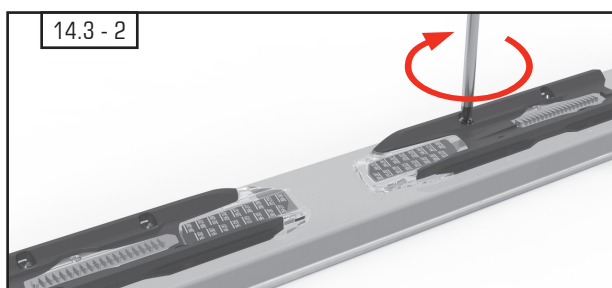
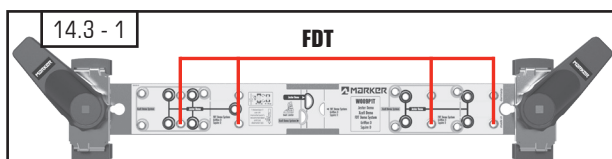
When mounting the binding make sure that you fit the enclosed stickers to the ski. (14.2 - 11)



REMARK:

The enclosed info booklet must be handed over to the customer. (14.2 - 12)

14.3 INSTALLATION OF GRIFFON D, GRIFFON TCX D, SQUIRE TCX D & FDT MODELS



IMPORTANT !

Griffon D, Griffon TCX D, Squire TCX D and FDT bindings are designed to mount only in conjunction with the FDT plate system.

REMARK: (→ 18.3)

The binding models Griffon D, Griffon TCX D, Squire D & FDT GRIP-WALK are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

REMARK:

This mounting instruction is also valid for the MARKER / NORDICA models FDT, MARKER / MOVEMENT models FDT and the MARKER / Bogner & Indigo models FDT.

DRILLING THE ATTACHMENT HOLES:

- Place the FDT installation tool W009P1T or W004Q1T (14.3 - 1) onto the ski and align the mid - sole mark »FDT« with the mid - sole mark on the ski.
- Check if the installation tool is positioned correctly on the ski.
- Drill 4 holes for the front plate and 4 holes for the heel plate through the yellow marked drill bushings.
- Remove the installation tool from the ski.

REMARK:

See the DRILLING INSTRUCTIONS → 3.2

INSTALLATION OF THE FDT PLATE:

- Place the FDT plate onto the ski, tighten the front plate screws lightly, then firmly.
- Tighten the heel plate screws lightly, then firmly. (14.3 - 2)

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (14.3 - 3 & 14.3 - 4)



CAUTION !

Make sure that the toe spacer rails engage both sides of the base plate properly.

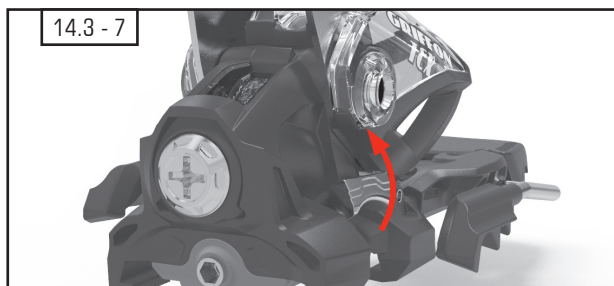
- Slide the toe to the correct sole length in accordance with the front sole length scale. (14.3 - 5)

14.3 INSTALLATION OF GRIFFON D, GRIFFON TCX D, SQUIRE TCX D & FDT MODELS



- Close the toe locking lever. (14.3 - 6)

INSTALLING THE HEEL:

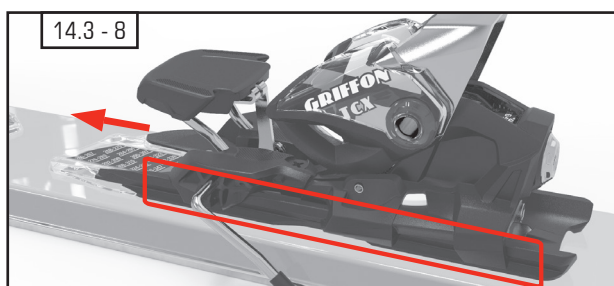


- Open the heel locking lever and slide the heel onto the plate starting from the rear. (14.3 - 7)
- Slide the heel forward. (14.3 - 8)



CAUTION !

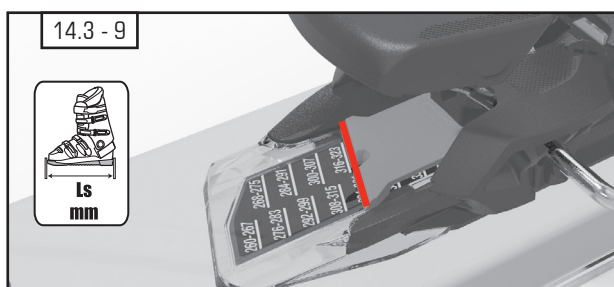
Ensure that the rails of the heel engage both sides of the base plate properly.



- Slide the heel to the correct sole length in accordance with the rear sole length scale. (14.3 - 9)
- Close the heel locking lever. (14.3 - 10)

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the forward pressure is correct when the imprinted line on the forward pressure indicator is visible in the cutout of the heel housing. (14.3 - 11)
If the forward pressure indicator line is not visible: remove the ski boot and readjust the boot sole length until the forward pressure indicator line is visible in the cutout.

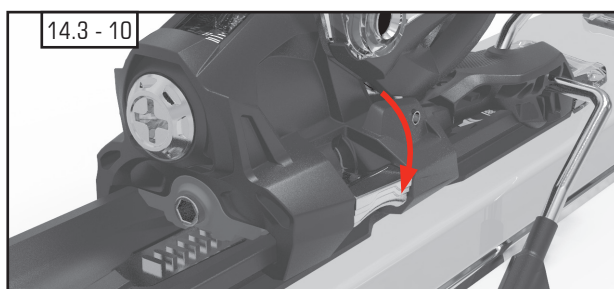


RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

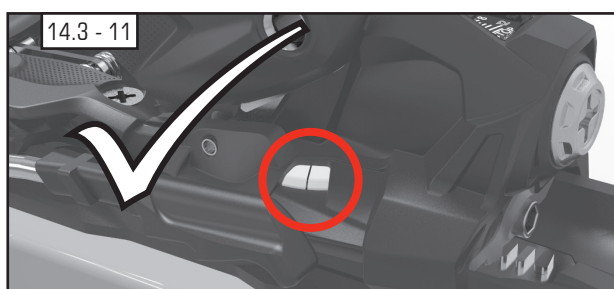
→ 12.1 - 12.3



REMARK:

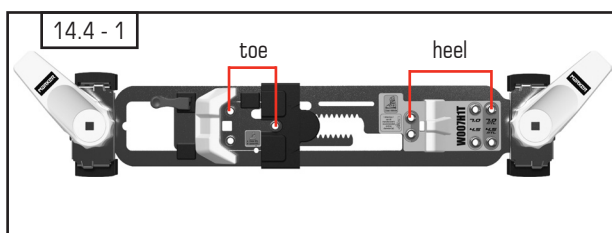
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.6



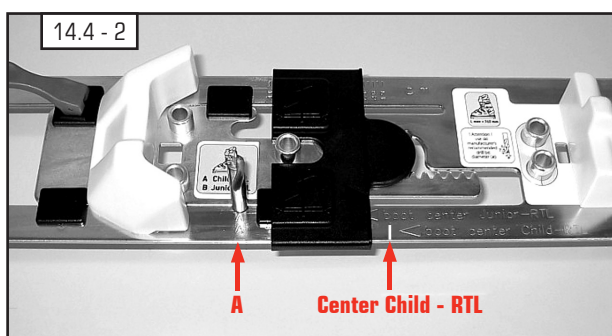
CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder: → 15.3

14.4 INSTALLATION OF 7.0 RTL / 4.5 RTL GRIPWALK



REMARK: The binding models 7.0 RTL & 4.5 RTL GRIPWALK are designed for the following boot soles:

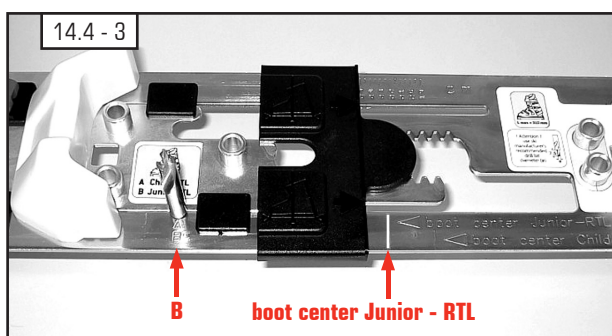
- Alpine ski boots for adults DIN ISO 5355 type A
- Junior ski boots DIN ISO 5355 type C
- Junior ski boots with the additional marking "GRIPWALK Junior"
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"

**IMPORTANT !**

4.5 RTL and 7.0 RTL (with length scales 44 – 59 and 54 – 69) have to be mounted with the installation tool **W007H1T** (14.4 - 1) !

DRILLING THE ATTACHMENT HOLES:

- Adjusting the installation tool (W007H1T) for **4.5 RTL**:
Open the locking lever. Move the toe guide until the marking sticker on the toe guide is aligned with the marking »A« on the frame of the installation tool. Fix the position by inserting a drill bit to the position »A« hole. Close the locking lever, remove the drill bit. Place the pre - installed installation tool onto the ski and align the mid - sole mark „boot center Child – RTL“ with the mid - sole mark on the ski. (14.4 - 2)



Adjusting the installation tool (W007H1T) for **7.0 RTL**:

Open the locking lever. Move the toe guide until the marking sticker on the toe guide is aligned with the marking »B« on the frame of the installation tool. Fix the position by inserting a drill bit to the position »B« hole. Close the locking lever, remove the drill bit. Place the pre - installed installation tool onto the ski and align the mid - sole mark „boot center Junior – RTL“ with the mid - sole mark on the ski. (14.4 - 3)



- Drill 3 holes for the toe through the front bushings and 4 holes for the heel through the grey marked rear drill bushings.
- Remove installation tool from the ski.

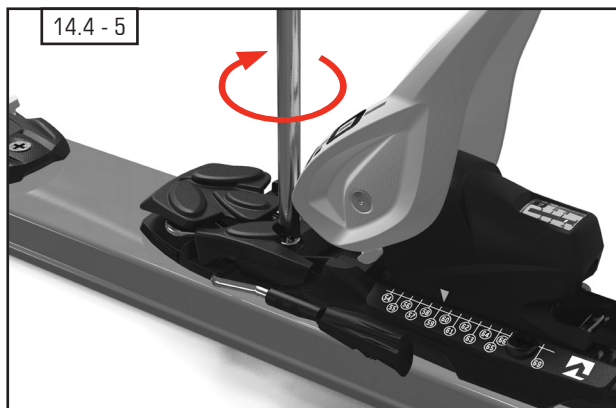
REMARK:

See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE TOE:

- Place the toe with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly. (14.4 - 4)

14.4 INSTALLATION OF 7.0 RTL / 4.5 RTL GRIPWALK



INSTALLING THE HEEL:

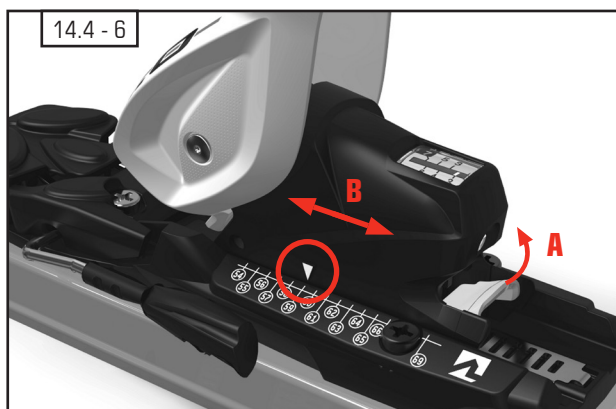
- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly. (14.4 - 5)
- Check if all screws are tightened firmly.

ADJUST THE CODE ON THE BINDING: (see 14.1)

REMARK:

The easiest way to adjust the heel is moving it with open sole-holder.

- Pull the locking lever upward (A) and move the heel until the indicator on the side of the heel housing is aligned with the determined code. (14.4 - 6)
- Close the locking lever to secure heel position.



CAUTION !

Ensure that the lever is engaged properly ! (14.4 - 7)

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the groove on the locking lever has to point to the embossed section of the heel housing (14.4 - 8).
If the forward pressure is incorrect: remove the ski boot, lift the lever and move the heel until the forward pressure is correct.



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

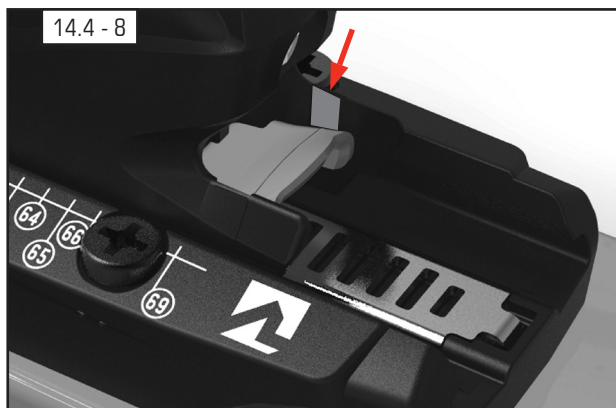
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

REMARK:

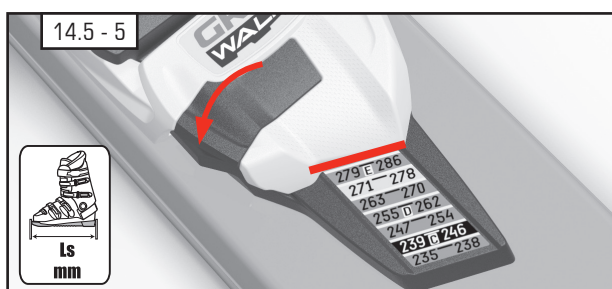
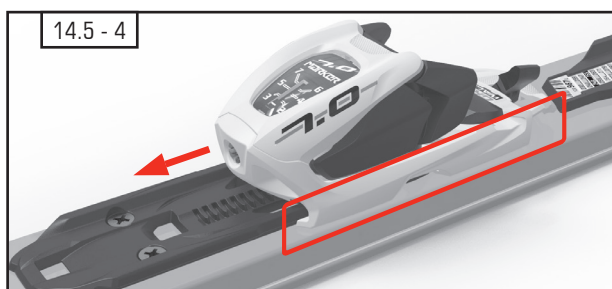
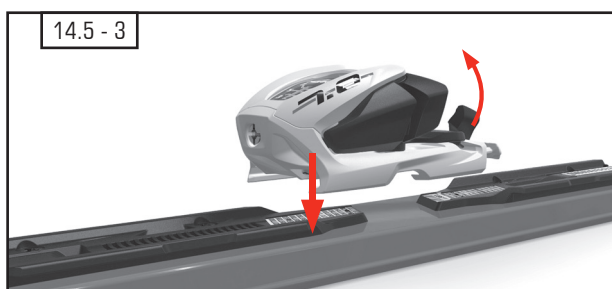
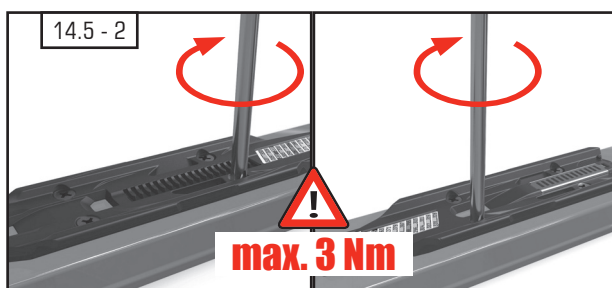
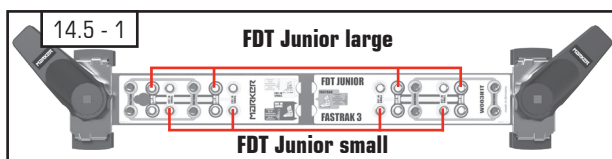
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.6



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

14.5 INSTALLATION OF FDT 7.0 / FDT 4.5 GRIPWALK



REMARK: The binding models FDT 7.0 & FDT 4.5 & VMotion Junior GRIPWALK are designed for the following boot soles:

- Alpine ski boots for adults DIN ISO 5355 type A
- Junior ski boots DIN ISO 5355 type C
- Junior ski boots with the additional marking "GRIPWALK Junior"
- Touring ski boots for adults DIN ISO 9523 with the additional marking "Gripwalk®"



IMPORTANT !

FDT 7.0 and FDT 4.5 bindings are designed to mount only in conjunction with the FDT Junior large or FDT Junior small plate systems !



IMPORTANT !

VMOTION Junior and VMOTION Junior R bindings are designed to mount only in conjunction with VMOTION Junior skis with premounted plates !

REMARK: Ski length / sole length Völkl VMotion Junior:

Ski VMotion Junior 80 - 110 cm: sole length "S" 190 - 285 mm
Ski VMotion Junior 120 - 160 cm: sole length "L" 235 - 330 mm

FDT JUNIOR: DRILLING THE ATTACHMENT HOLES:

- Place the FDT Junior installation tool W003H1T (14.5 - 1) onto the ski and align the mid - sole mark »FDT Junior small« or »FDT Junior large« with the mid - sole mark on the ski.
- Check if the installation tool is positioned correctly on the ski.
- »FDT Junior small«: Drill 4 holes for the front plate and 4 holes for the heel plate through the yellow marked drill bushings.
- »FDT Junior large«: Drill 4 holes for the front plate and 4 holes for the heel plate through the violet marked drill bushings.
- Remove installation tool from the ski.

REMARK: See DRILLING INSTRUCTIONS → 3.2

INSTALLATION OF THE FDT JUNIOR PLATE:

- Place the toe plate onto the ski, the length scale points to the ski tail.
- Place the heel plate onto the ski, the metal bracket points to the ski tail.
- Tighten the screws by hand with a max. torque of 3 Nm. (14.5 - 2)

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (14.5 - 3 & 14.5 - 4)

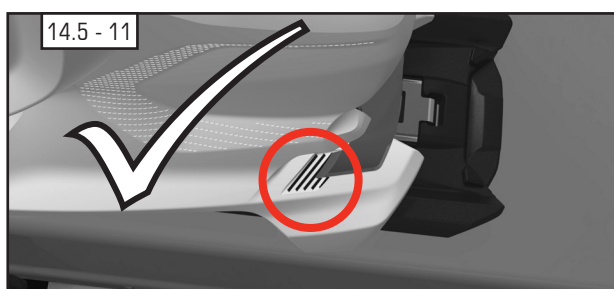
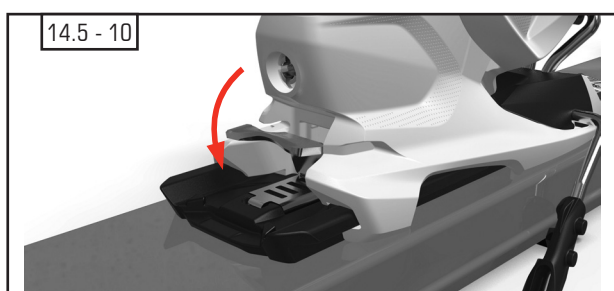
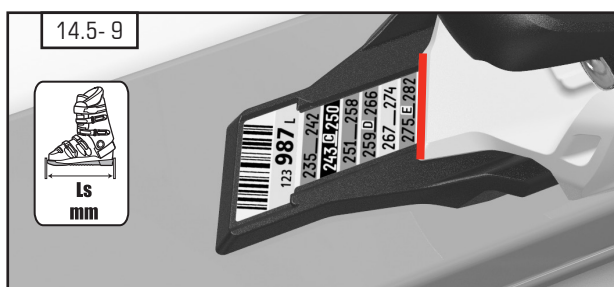
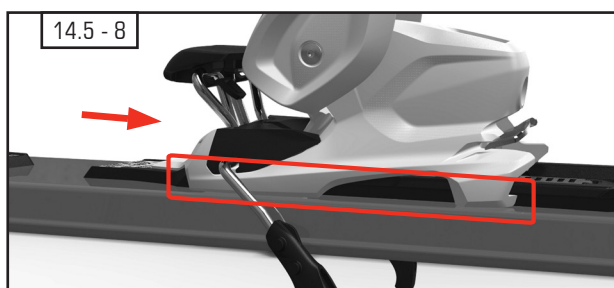
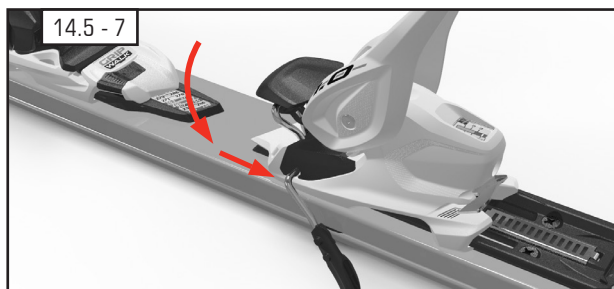
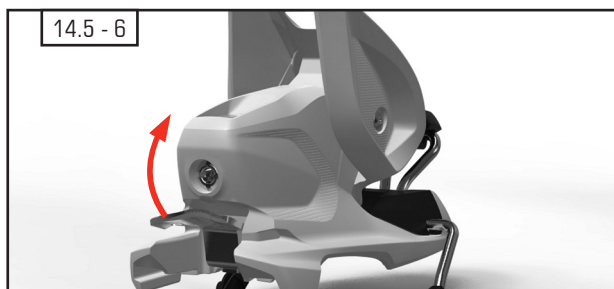


CAUTION !

Make sure that the toe spacer rails engage both sides of the base plate properly.

- Slide the toe to the correct sole length in accordance with the front sole length scale. (14.5 - 5)
- Close the toe locking lever. (14.5 - 5)

14.5 INSTALLATION OF FDT 7.0 / FDT 4.5 GRIPWALK



INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the center. (14.5 - 6 & 14.5 - 7)
- Slide the heel backward. (14.5 - 8)



CAUTION !

Ensure that the rails of the heel engage both sides of the base plate properly.

- Slide the heel to the correct sole length in accordance with the rear sole length scale. (14.5 - 9)
- Close the heel locking lever. (14.5 - 10)

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the forward pressure indicator on the locking lever has to point to the marked section on the side of the heel housing. (14.5 - 11)
If the forward pressure is incorrect: remove the ski boot, lift the lever and move the heel until the forward pressure is correct.

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.6



CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

14.6 FUNCTION TEST AND SERVICE

FUNCTION TEST OF MARKER RENTAL & DEMO BINDINGS:



IMPORTANT !

The test procedure described below is based on the existing ISO 13993 and ASTM F1064, and constitutes a summary of these standards. The original document "International Standard ISO 13993:2019" provides the authoritative and binding protocol to use for the Rental test procedure.

TEST PROCEDURE:

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

Fully implemented, the procedures that follow provide rental shop customers a standard of care equivalent to that provided retail shop customers under current ISO and ASTM standards.

This test procedure is not applicable for alpine touring ski-binding-boot systems.

This test procedure is not applicable for complete and incomplete alpine ski-binding-boot systems which are rented for 15 days or more.

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. Exception: for new system bindings in their original packaging, which are fitted onto the plate systems pre-assembled by the ski manufacturer, the random sample is $\geq 5\%$ from stock but no fewer than 16 and no more than 80 systems – see table [B]. If stock comprises less than 16 units, 100% inspection is performed.

Bindings that fail go through a trouble - shooting procedure (→ 15.4) 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 test 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 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 be easily identified.

1. Select five single boots with sole lengths as specified in table [A] for the binding type to be tested: adult, junior, or child.
2. Clean all five boots with a mild detergent and water.
3. Adjust a rental binding to the release indicator setting specified in table [A] for the binding type.
4. Fit the binding to the boots 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 (see table → 15.1 - 15.3).
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.

14.6 FUNCTION TEST AND SERVICE

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 is adequate 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 pre - season binding maintenance.
2. Visually or manually check:
 - a. AFD condition
 - b. Brake function
 - c. Release indicator readability and travel
 - d. Screw tightness
3. Fit each binding to the reference boot and adjust the release indicators to the value in Table [A].
4. Check that the heel track and toe track single code agree with the sole length single code of the reference boot.
5. With the reference boot in the binding, verify elastic travel of the toe piece by striking the boot toe with a mallet or dead hammer and checking that the toe piece returns the boot quickly and completely to center.
6. Verify elastic travel of the heel piece by lifting the boot while depressing the heel piece cocking lever and checking that the heel piece returns the boot quickly and completely to the latched position.
7. Manually release the binding 3 times in each direction.
8. Lubricate all boot / binding interfaces with a mild liquid detergent and water solution.
9. With the ski binding test device determine the release Torque for each direction of release (forward lean and both directions in twist).
10. Record "PASS" in the binding's maintenance record if test results are within the inspection ranges 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 trouble - shooting procedure (→ 12.4) 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 trouble - shooting, 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 trouble - shooting, test results are outside the inspection range but within the in - use range, apply a correction factor to the unit and note the correction factor for that unit in the binding's maintenance record.
15. If many bindings fail, check the test device and re - inspect the reference boot. If necessary, select another boot and retest the bindings.

Skier Code	E	I	L
Binding Type	Children	Junior	Adult
Sole Length (mm)	255 ± 5	280 ± 5	320 ± 5
Recommended sole type	C	A	A
Release Indicator Setting	2	4	6
Reference Torque Twist (Nm)	20	37	58
Reference Torque Forward (Nm)	75	141	229
Twist Inspection Range (Nm)	17 - 23	31 - 43	50 - 67
Forward Inspection Range (Nm)	64 - 87	120 - 165	194 - 271
Twist In - Use Range (Nm)	14 - 27	27 - 50	43 - 78
Forward In - Use Range (Nm)	52 - 102	102 - 194	165 - 320

Table [A] Pre - season binding test

NOTE table [A]:

Twist in-use range for children bindings with a reference moment M_z of 20 Nm shall be treated as accepted twist inspection range.

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. Conformance with ISO and other applicable standards - ISO 5355. If the boot contacts the binding, brake, or AFD in areas other than the designated contact points, it may be incompatible with the binding.
 - b. Boot material. If the sole at the contact points with the binding or AFD can be scratched with a finger nail, the boot may be of inferior quality and incompatible with the binding.
 - c. Boot sole condition. If the boot sole is damaged, worn, or contaminated at contact points with the binding or AFD in a manner which cannot be corrected, the boot may be incompatible with the binding, (→ 2.3) "Verify boot sole dimensions".
 - 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 [B]. Make sure that there is at least one boot from each cell in the sample.

14.6 FUNCTION TEST AND SERVICE

PRE - SEASON BOOT INSPECTION:

The procedure that follows helps to assure both boot / binding compatibility and boot interchangeability. Note: when using table [A], in the boot inspection procedures that follow, the sole length and release indicator setting columns should be ignored.

1. Randomly select a pair of bindings that have passed the pre-season inspection from each binding type: adult, junior, child.
2. Lubricate all boot / binding contact points with a mild liquid detergent.
3. Without regard to whether the boot is new or used, sort the sample by sole type and length according to the 20 mm sole length categories defined by the release / retention adjustment chart.
4. In each sole length category rank the boots by sole length and select the middle boot.
5. In each sole length category fit the appropriate reference bindings to this „typical“ boot and adjust the two bindings to release as close as practical to the reference torque in table [A]. Use the reference torque corresponding to skier code [L] for the adult binding, [I] for the Junior binding, and [E] for the Child binding.
6. Rinse the lubricant from one binding and mark it „clean.“ Mark the other „lubricated“.
7. Test each boot in the sole length category with the clean reference binding and then the lubricated reference Binding in both twist and forward lean (only one direction in twist is required for the clean binding).
8. Set aside any boots for which the lubricated test result is more than 20 % less than the clean test result in the same direction of release or the Lubricated test result in any direction of release is outside of the inspection range provided in table [A] for the skier code used to set up the reference binding (E, I, or L).
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 pre - season inspection, clean the liquid detergent from the equipment and lubricate the binding before returning it to service.

IN - SEASON SAMPLING AND INSPECTION:

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

SAMPLE FREQUENCY:

Random sampling is conducted throughout the entire season.

FREQUENCY IS AS FOLLOWS:

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

SAMPLE SIZE:

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

IN - SEASON INSPECTION:

1. Take a random sample of the rental inventory as determined by table [B]. Take half of the sample from inventory as it is either rented or returned and the remainder from inventory available for rental.
2. The returned samples are tested with the last customer's data, the other samples adjust to randomly selected skier data. Consider already applied correction factors.
3. Wipe the boot clean and cycle the boot / binding systems at least once in each direction.
4. Test sample units in twist (one direction only) and forward lean.
5. Compare the test results with the inspection range for the appropriate skier code, see ISO 11088 release / retention adjustment chart. (page 114 / 118)
6. If the results are within the inspection range, one value above to one value below the reference value, the unit passes.
7. If the results are outside inspection range but within the in - use range, two values above to two values below the reference value, count the unit as a class I deviation.
8. If the results are outside the in-use range, count the unit as a class II deviation.
9. Check elastic travel and visually inspect the ski brake function, interface areas between boot and binding, including AFD, lug height adjustment (if appropriate), and forward pressure. Count any deficiencies as class I deviations.
10. If more than the maximum number of class I deviations given in table B are found in the sample, or a single class II deviation is detected the sample fails and daily sampling must be conducted until the problem which led to the failed sample is found and corrected.
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.

14.6 FUNCTION TEST AND SERVICE

Table [B]

Inventory Size Pairs	Sample Size Units	Max. Class I Dev.
100	16	3
200	20	4
300	30	6
400	40	8
500	50	10
600	60	12
700	70	14
800	80	16
900	80	16

RENTAL / DEMO OF PARTIAL SYSTEMS

Many shops rent their customers partial ski equipment systems e.g. for customers using 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 BOOTS ONLY: CUSTOMER OWNED SKIS / BINDINGS:

Whenever customers rent boots for use with their own skis and bindings, the whole system boot - binding - ski must be mechanically tested according to the procedures described for retail equipment ISO 11088. A properly completed form, including all the required customer information should be kept by the individual or organization responsible for the adjustment.

RENTAL OF SKIS / BINDINGS 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 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 indicators set per current MARKER 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.



CAUTION !

Hand out the workshop form or the record of the release values to the customer. Ask the skier to please read the release agreement. The skier has to read, understand and agree to the conditions specified in the release agreement. Collect a copy of the signed form.

NOTE FOR U.S. AND CANADA:

Signatures by both the customer and MARKER Certified Mechanic are required on all shop forms to qualify for the MARKER Dealer Indemnity Program.

RENTAL SKIER INSTRUCTION

Explain the function of every MARKER RENTAL or DEMO ski binding to every customer. If the customer is a child, this information should be also given to the parents or guardian.

- Explain the binding function and how it releases.
- Point out the visual indicator settings on the binding. Ask the skier to verify that these settings agree with the settings recorded on the workshop form.
- Explain and show the customer how to step in and release the binding.
- Point out that a shift of the adjusted release values has a high risk of injury to the skier.
- Explain to the skier how to release from the binding in difficult conditions and how to step in again.



IMPORTANT !

The skier should have in mind the risk of skiing. MARKER 's intention is to minimize those risks as far as possible. Point out that the binding will not release under all circumstances nor is it possible to predict every situation in which it will release and is, therefore, no guarantee of his or her safety.



15.1 - 15.2 MAINTENANCE - WARRANTY

15.1 MAINTENANCE:

To help ensure proper function, MARKER ski bindings should be kept clean and free of dirt, rust or other contaminants. To clean, wipe all exposed surfaces with a moist or dry cloth or use compressed air.



IMPORTANT !

Use a soft cloth, lukewarm water and mild detergent to clean. Under no circumstances should you use plastic cleaner, or caustic or aggressive cleaning agents and substances to clean the product. This can permanently damage the surfaces and materials. Do not use a lubricant such as e.g. silicone on the toe or heel sole holders.

MARKER ski bindings should be cleaned in the event of visible soiling, or at least once per season.

Store your skis with the binding closed in a frost-free and dry place. Avoid exposure to excessive heat (e.g. when stored in an attic), and storage near to acid-absorbing media (e.g. chimneys, car batteries) or storage in garages.

15.2 WARRANTY:

MARKER's warranty is extended to the customer through the MARKER authorized retailer. MARKER requests that warranty claims or inquiries be processed by MARKER authorized retailers on behalf of their customers. In some instances, if a retail customer should contact MARKER directly, MARKER will process the claim or inquiry. Defective product is defined as that product, component or part thereof which, due to material failure or defect in workmanship, no longer functions properly for its intended use. Final decisions regarding any claimed product defect will be made solely by a representative of MARKER.

RETAIL WARRANTY PERIOD

MARKER will, at its sole discretion, repair, replace or refund the purchase price of a defective Retail binding for a period of three years from the date of purchase.

RENTAL / DEMO WARRANTY PERIOD

MARKER will, at its sole discretion, repair, replace or refund the purchase price of a defective Rental / Demo binding for a period of one year from the start of service in a rental operation.

WARRANTY EXCLUSIONS

Damage caused by improper handling, non - observance of the instructions for use, non - qualified installation, improper adjustment, insufficient maintenance and servicing, skiing accidents, abuse of product or normal wear is not covered under warranty. All wearing parts and cosmetics are exempt from warranty. MARKER will not be liable for incidental or consequential damages of any nature unless such limitation is expressly prohibited by law in the applicable jurisdiction. All implied warranties are expressly disclaimed unless such disclaimer is prohibited by law. In that event, the duration of any implied warranties shall be concurrent with the period of express warranties stated herein.

15.2 WARRANTY

WARRANTY RETURN PROCEDURES

The following warranty return procedures apply to MARKER Authorized Retailers in the USA. Please contact MARKER distributors in other countries regarding warranty return procedures.

All customers with MARKER binding warranty questions should be referred to the nearest MARKER Authorized Retailer. The MARKER Authorized Retailer is to observe the following procedures upon receipt of allegedly defective products.

1. The owner (customer) of an allegedly defective MARKER binding is to return the merchandise to a MARKER Authorized Retailer.
2. The MARKER Authorized Retailer is to determine if the binding falls under MARKER's warranty policy and is not excluded under MARKER's warranty provisions.

If there are any questions as to the warranty status of such product, the MARKER Authorized Retailer should contact MARKER for verification and special handling instructions. In certain cases MARKER may be able to send a part to the retailer to avoid a binding return.

There may be cases where it is determined that an entire set of bindings must be replaced. When a complete set is replaced from retailer's stock, return all pieces to MARKER for replacement. Credit cannot be taken or issued for replacement product.

3. If a binding is broken but does not meet MARKER's warranty requirements, the customer may qualify for MARKER's Extended Service Plan. Contact MARKER for details. 1.800.453.3862
4. MARKER Authorized Retailers should ship returned warranty product to the address listed below.

USA ship to:

MARKER USA WARRANTY
425 Washington Street
Claremont, NH 03743

Note: Warranty claims for MARKER's Ski Partners:

Völkl: All warranty claims for MARKER / Völkl bindings must be sent to Völkl USA.

K2: All warranty claims for MARKER / K2 bindings must be sent to K2 USA.

Nordica: All warranty claims for MARKER / Nordica bindings must be sent to Nordica USA.

Blizzard: All warranty claims for MARKER / Blizzard bindings must be sent to Blizzard USA.

Kästle: All warranty claims for MARKER / Kästle bindings must be sent to Kästle USA.

15.2 WARRANTY

WARRANTY RETURN INFORMATION

MARKER Authorized retailers must call MARKER Warranty for a Return Authorization (RA) number before shipping product.

When returning bindings for evaluation, please be sure to include the following information:

1. Describe the problem thoroughly and mark the problem area if necessary.
2. Include customer information and proof of purchase if available.
3. Include shop contact name and telephone number.

For components that fail one of the mechanical testing inspections, the following should be included:

1. Which inspection component failed.
2. The brand of test device used and the last date it was calibrated.
3. The test tolerance range of the testing device for computer type devices.
4. The skier code and the indicator setting at which the component failed.
5. The boot brand, model and sole length in mm.
6. The measured release values for all required inspections.
7. The name of the technician(s) whom performed the inspection.

Warranty returns that are not accompanied by the essential descriptive information may be delayed or denied.

ADVANCE WARRANTY REPLACEMENT

If the retailer does not have the replacement component in stock, MARKER Warranty can authorize an advance warranty replacement. MARKER will ship the replacement component before the defective component is returned to MARKER.

The retailer will be invoiced for the advance warranty replacement component and credit will be issued when defective component is returned.

15.3 RECORD KEEPING

RECORD KEEPING

As a MARKER Certified Technician, you are required to keep accurate and complete records of all work performed on any MARKER binding. Workshop records must be kept on file for five years or the statute of limitations of the state in which the work was performed, whichever period is longer.

Whatever workshop form is used, it must include the following required information.

Omission of any one of the following items will result in denial of liability indemnification in the case of a claim. Workshop forms that meet MARKER's minimum requirements are available from MARKER.

1. **Date of transaction**
2. **Skier name / address**
3. **Skier weight / height / age / skier type**
4. **Ski brand / model / serial number / length**
5. **Boot brand / model / sole length (mm) / boot sole type (Alpine / AT)**
6. **Binding model**
7. **System inspection results: The results of all appropriate system inspections should be recorded only as "Pass" or "Fail."** If a given inspection is not required, the technician should record "N / A" for "Not Applicable" on the form.
8. **Initial visual indicator setting and final visual indicator settings for each toe and heel.**
9. **A release agreement that conforms to the one recommended by Marker.** It is essential that the release agreement signed by the skier conforms with the essential information contained in the MARKER Release Agreement.
➔ **17.5 WORKSHOP FORMS**
Of particular importance is the inclusion in the release language of **"MARKER or all manufacturers and distributors of this equipment, and their owners, agents and employees...."** Consult with your shop's legal counsel to ensure that the release agreement also conforms to the legal requirements of your state.
10. **MARKER Certified Technician's Signature** attesting that all functional inspections and instructional procedures have been completed. It is not a requirement that the technician who performs the work or instructs the skier be a MARKER Certified Technician, but it is imperative that the signature on the workshop form be that of a MARKER Certified Technician who has inspected and verified the work performed. Technicians must use their full signature.
11. **Skier's Signatures** and that of the skier's parent, legal guardian or agent for minor skiers and **the date** on which the equipment was received by the skier.
12. **Notes on the condition of the boot sole** if the boot sole is out of standard or otherwise unsuitable for use.

15.3 RECORD KEEPING

13. **Notes on any non-recommended release value adjustment.** If the skier has requested a release setting other than the one recommended by MARKER, this must be noted on the workshop form. Also, an additional signed and dated release must be attached to the completed workshop form.

→ 18.8

SPECIAL WARNING & AGREEMENT RELEASE WAIVER

14. **Refusal to serve statement:** A statement should be included whenever the technician identifies a ski / binding / boot system component that is out of standard or otherwise unsuitable for continued use. Such a statement should also be included whenever the customer refuses to have work performed that the shop has advised will help reduce the risk of injury. In addition to the required information, the shop may find it useful to include on the form the skier's home phone number, local accommodations or other information that would help the shop contact the skier in the case of a problem with the system. The information required here by MARKER represents only the minimum necessary for a proper legal defense. Additional information may be included at the retailer's discretion.



IMPORTANT!

The **MARKER Certified Technician's** signature signifies that the ski / binding / boot system has been inspected in accordance with **MARKER's** required procedures. The **MARKER Certified Technician** who signs the form is also attesting that the skier has been properly instructed. The **MARKER Certified Technician** may sign the form after inspecting the equipment, but before the skier receives the recommended instruction and warning, as long as it is part of the shop's written policy to always provide such instruction to the skier when the equipment is delivered. The skier's signature on the form is the shop's assurance that such instructions were provided and understood.



IMPORTANT!

Without a properly completed workshop form, liability indemnification from **MARKER** will be denied.

The Skier's Signature is his or her acknowledgement that he or she:

- Has read and understood the release agreement on the workshop form, which releases the shop and **MARKER** from liability.
- Has been instructed in the proper use of the equipment.
- Has received MARKER's in-box instructions (new bindings only).
- **Has verified that the visual indicator settings on the bindings correspond to the visual indicator settings recorded on the workshop form.**
- Understands that there are inherent and other risks in the sport of skiing.
- Understands that included in the release agreement is the **warning** that the binding will not release or retain under all circumstances, nor is it possible to predict every situation in which it will release or retain and it is, **therefore, no guarantee of his or her safety.**

The person who signs the form must be the intended user of the equipment. **In the case of a minor skier, the signature of the skier's parent, legal guardian or agent is also required.** Whenever possible, the minor skier should also sign the form. If the person picking up the equipment is not the skier or the skier's parent, legal guardian or agent, treat this person as though he or she were the skier and obtain his or her signature on the form next to the skier's signature.

15.4 SKIER INSTRUCTION

SKIER INSTRUCTION:

After the final inspection the function unit ski / ski binding / ski boot has to be given to the customer together with the workshop form and the in - box instructions.

IMPORTANT !

One of the most important responsibilities of the MARKER Authorized Retailer is to ensure that proper skier instructions and warnings are provided every time a MARKER ski binding is sold, serviced or rented. Whenever possible, the following instructions should be given directly to the intended user. If the skier is a minor, the instructions should be given in the presence of both parents or legal guardian and the skier.

ENTRY:

- Make sure that the boot sole is clear of snow, ice and dirt
- Open the heel cup by pressing down the opening lever with the ski pole tip, boot sole, ski tail or hand.
- Center the ski boot in the toe cups and step straight down into the heel cup.

EXIT:

FOR ALL TWIN CAM STEP - IN, COMPACT STEP - IN, HOLLOW LINK-AGE AND INTER PIVOT HEELS:

- Press down on the opening lever with the ski pole tip, boot sole, ski tail or hand.

EXITING IN AN AWKWARD POSITION:

- If the heel is closed, open the heel by pressing down on the opening lever. Re - enter the system.
- After lateral release always exit the ski binding and re - enter again.

RE - ENTER THE SYSTEM:

- If the heel is closed, open the heel by pressing down on the opening lever.
- In soft snow while stepping in the force can be reduced
 - by pulling the opening lever (all Step - In heels)

SYSTEM EXPLANATION FOR THE SKIER:

- Explain the boot - to - binding adjustment.
- Show where the release adjustment screws are and explain the adjustment at the visual indicators on the ski bindings and how they correspond to the recorded numbers on the workshop form. The skier should know his own DIN settings and / or skier code.

- Explain the bindings compatability with boot sole types.
(ISO Alpine boot sole only Compatible)
-or-
(ISO Alpine and ISO Alpine Touring Compatible)
- Explain when applicable, boots that are designed for or come with interchangeable boot sole types must be adjusted for that particular boot sole in order for the binding to function properly.
- Point out the left and the right ski indicators.
- If any system components are worn out of standard or otherwise unsuitable for continued use, the skier must be clearly informed of the problem and warned that continued use may significantly increase his or her risk of injury.
- Advise that if any problem develops with any part of the function unit ski / ski binding / ski boot it should be brought to a MARKER Authorized Retailer for inspection and service.

RECEIPT OF IN - BOX INSTRUCTIONS:

- Whenever a new ski binding is delivered to the skier he or she should receive the in - box instructions and the warranty information.

MAINTENANCE:

- Explain to the skier that the ski binding should be kept clean and free of dirt, rust, salt or other contaminants.
- Recommend that the complete function unit ski / ski binding / ski boot has to be brought to a MARKER Authorized Retailer for inspection prior to the beginning of each ski season.

SKIER SIGNATURE

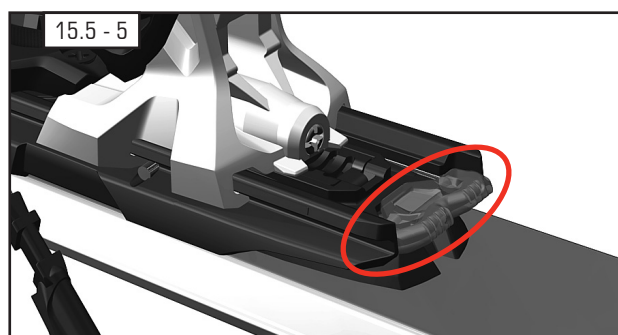
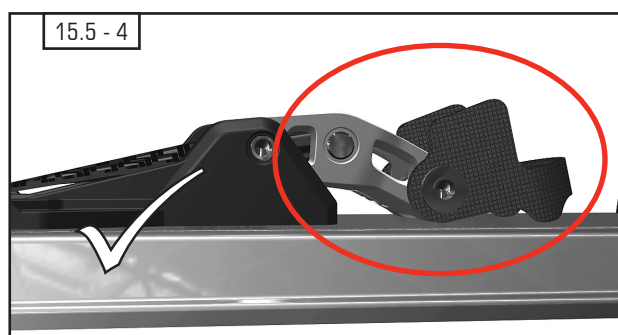
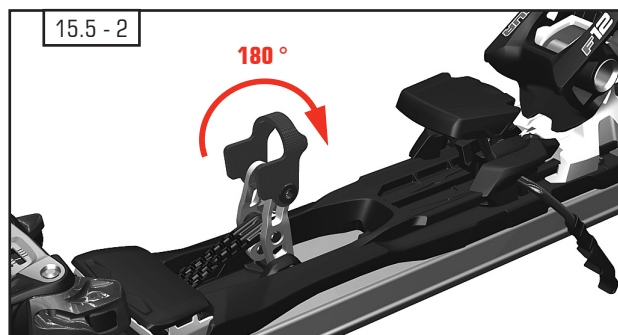
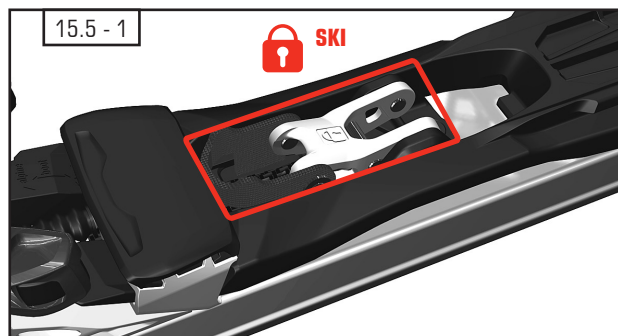
- The skier must read, understand and agree to the conditions specified in the workshop form and / or any release agreement.
- Make sure that the skier signs the workshop form and /or the release agreement. If the skier is a minor, this document should be signed by a parent or a legal guardian.
- A copy of the signed documents has to be handed to the customer.



IMPORTANT !

The skier should understand that there are inherent and other risks in the sport of skiing. Explain that the ski binding will not release or retain under all circumstances nor is it possible to predict every situation in which it will release or retain and it is, therefore, no guarantee of his or her safety.

15.5 INFORMATION FOR THE SKIER - F 12 TOUR EPF & F 10 TOUR



ADDITIONAL INFORMATION FOR THE MARKER TOUR

In addition to the system explanations of page 144 / 145, the following instructions must be given to the intended user of a MARKER TOUR

CHANGING FROM SKIING - MODE TO WALKING - MODE:

The TOUR engagement lever is located in the middle of the system plate.

With this lever you can adjust two positions (skiing - mode / walking - mode).

In order to change from the skiing - mode (locked position, 15.5 - 1) to the walking - mode (unlocked position, 15.5 - 3) switch the lever 180° backward (15.5 - 2)

IMPORTANT !



The engagement lever has to be switched completely to the walk position, the lever has to be flush with the ski's top (15.5 - 4)

USING THE HIKING - AIDE:

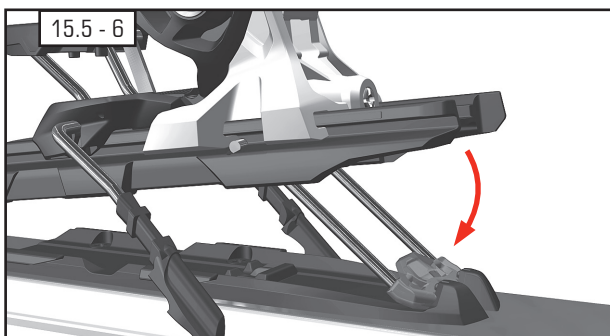
You can use the hiking - aide (15.5 - 5) in two positions when you are in the walking - mode.



IMPORTANT !

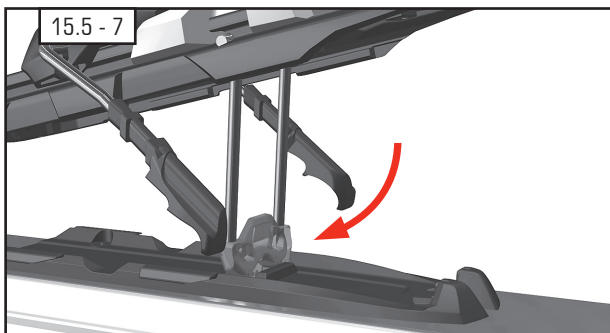
Point out to the customer that the function of the climbing aide can be affected (the climbing aide can fold up) when the engagement lever is not completely switched to the walk position (flush with the ski top surface).

15.5 INFORMATION FOR THE SKIER - F 12 TOUR EPF & F 10 TOUR



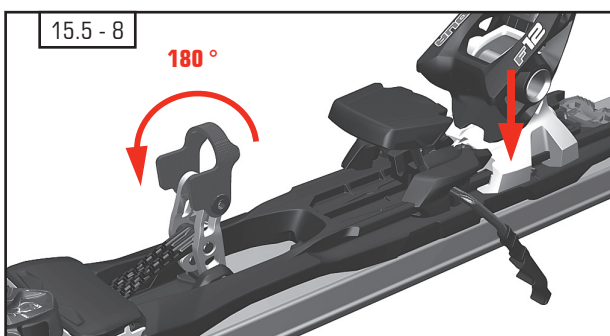
HIKING AIDE LOW POSITION

Fold the hiking - aide downward with the ski pole or by hand to the 7 ° position (15.5 - 6).



HIKING AIDE HIGH POSITION:

- Fold the hiking aid down with the ski pole or by hand to the 13 ° position. (15.5 - 7)



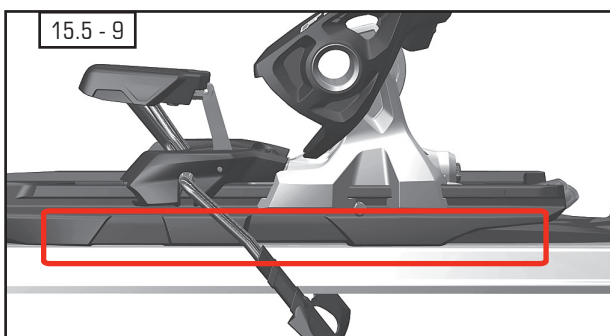
HIKING AIDE BASIC POSITION:

- Fold the hiking aid up to the basic position with the ski pole or by hand.

CHANGING FROM WALKING - MODE TO SKIING - MODE:

REMARK:

Free the bindings from snow and ice before changing from the walking - mode to the skiing - mode !



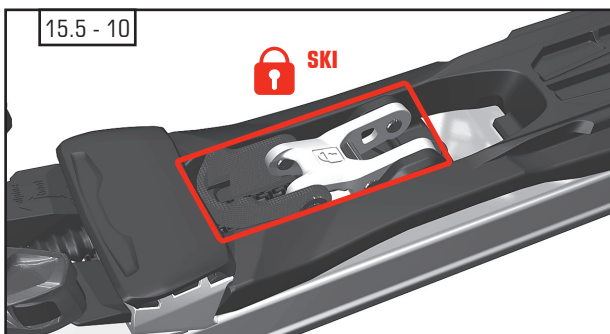
In order to change from the walking - mode (unlocked position) to the skiing - mode (locked position) switch the lever 180° forward (15.5 - 8).



CAUTION !

Press down the TOUR plate while you switch the engagement lever to the locked position !

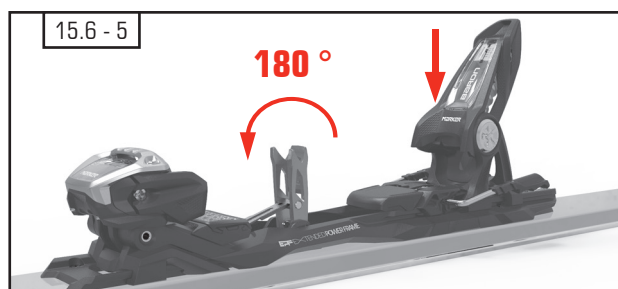
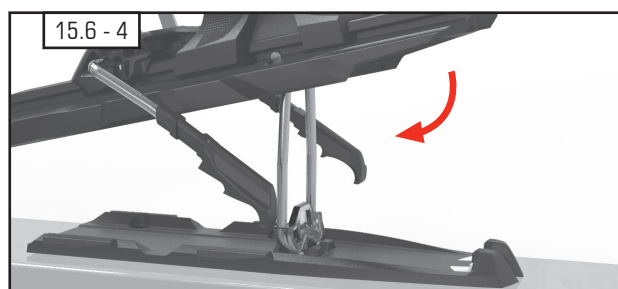
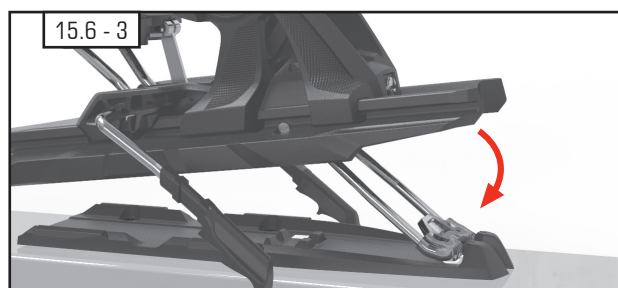
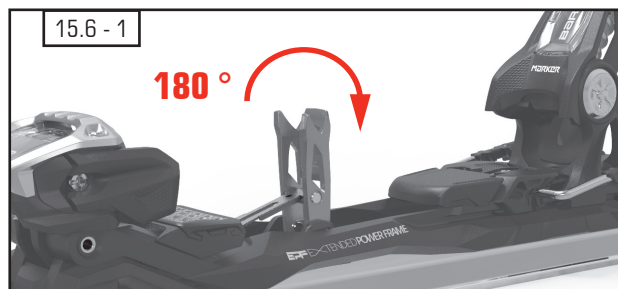
Assure that the TOUR plate is fully and uniformly sliding into the heel plate attachments (15.5 - 9) !



CAUTION !

Do not ski in the walking - mode (unlocked position) (15.5 - 10) !

15.6 INFORMATION FOR THE SKIER - BARON EPF



ADDITIONAL INFORMATION FOR THE MARKER BARON EPF

In addition to the system explanations → 15.1 - 15.3, the following instructions must be given to the intended user of a MARKER BARON EPF:

CHANGING FROM SKIING - MODE TO WALKING - MODE:

The BCT engagement lever is located in the middle of the BCT plate. With this lever you can adjust two positions (skiing - mode / walking - mode). In order to change from the skiing - mode (locked position) to the walking - mode (unlocked position) switch the lever 180° backward (15.6 - 1 and 15.6 - 2).

USING THE HIKING - AID:

You can use a hiking - aid in two positions when you are in the walking - mode.

Hiking aid low position:

- Fold the hiking - aid downward with the ski pole or by hand to the 7° position. (15.6 - 3)

Hiking aid high position:

- Fold the hiking aid down with the ski pole or by hand to the 13° position. (15.6 - 4)

CHANGING FROM WALKING - MODE TO SKIING - MODE:

In order to change from the walking - mode (unlocked position) to the skiing - mode (locked position) switch the lever 180° forward (15.6 - 5 and 15.6 - 6).



CAUTION !

Press down the BCT plate while you switch the BCT engagement lever to the locked position !

Assure that the BCT plate is fully and uniformly sliding into the heel plate attachments ! (15.6 - 7)

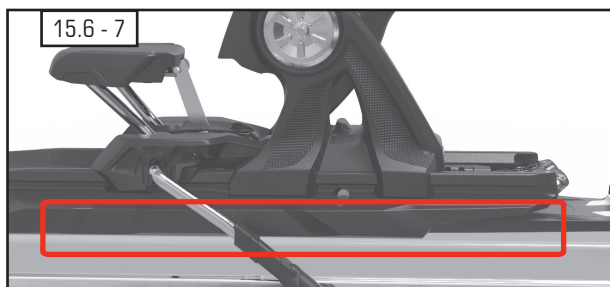
REMARK:

Clean the bindings from snow and ice before changing from the walking - mode to the skiing - mode !

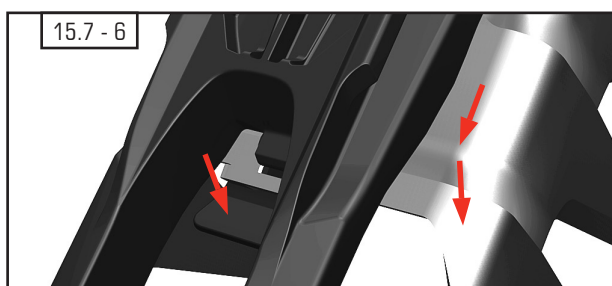
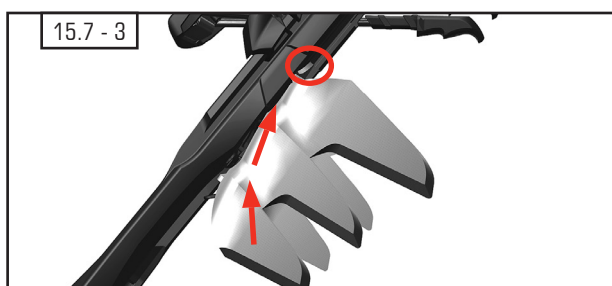
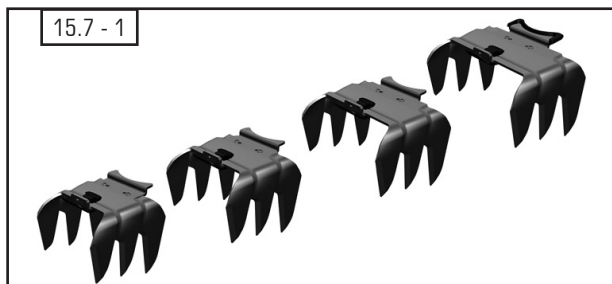


CAUTION !

Do not ski in the walking - mode (unlocked position) !



15.7 INFORMATION FOR THE SKIER - F 10 TOUR CRAMPON



ADDITIONAL INFORMATION FOR THE MARKER DUKE & BARON & TOUR

CRAMPONS:

MARKER offers special crampons for the MARKER DUKE & BARON & TOUR (15.7 - 1)

Crampon 82 mm for ski width → 74 mm:	Art.-Nr. H003K1A
Crampon 92 mm for ski width → 84 mm:	Art.-Nr. H001M1A
Crampon 113 mm for ski width → 106 mm:	Art.-Nr. H002N1A
Crampon 128 mm for ski width → 120 mm:	Art.-Nr. H004M1A

ATTACHING THE CRAMPONS:

- Open the engagement lever to the walking - mode (15.7 - 2).

- Lift the plate and attach the crampon from below by sliding it backwards (15.7 - 3).

**CAUTION !**

Ensure that the crampon is properly engaged in the plate. (15.7 - 4 and 15.7 - 5)

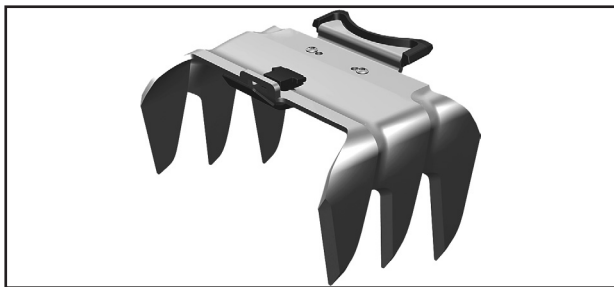
**CAUTION !**

Do not use the crampon in combination with the high position hiking aid

DETACHING THE CRAMPONS:

- Press down the black plastic lever from above and detach the crampon from the BCT plate (15.7 - 6).

15.8 INFORMATION FOR THE SKIER - BARON EPF & TOUR EPF



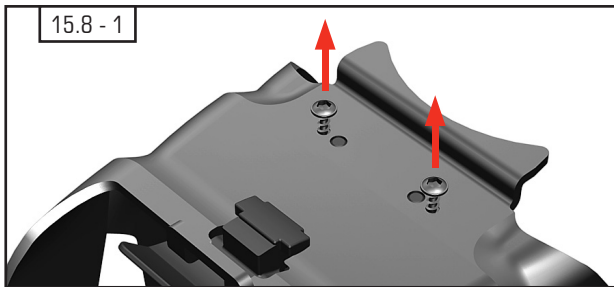
ADDITIONAL INFORMATION FOR THE MARKER DUKE EPF & BARON EPF & TOUR EPF:

ADAPTER FOR CRAMPONS:

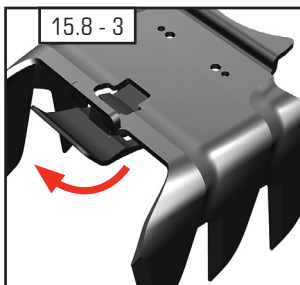
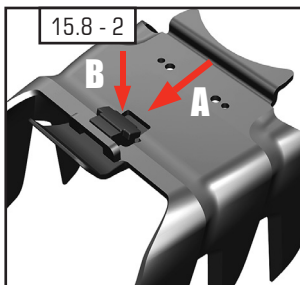
For fitting the crampon to the plate of the DUKE EPF & BARON EPF & TOUR EPF the accompanying crampon adapter must be mounted on the crampons.

(Exception: crampon 128mm H004M1A & 113 mm H002N1A with premounted adapter)

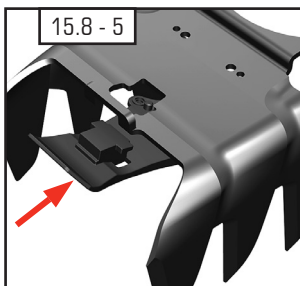
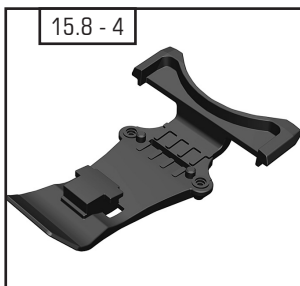
- Remove the screws (15.8 - 1)



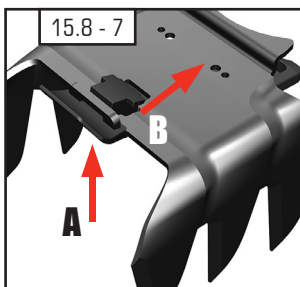
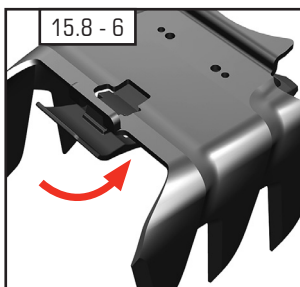
- Push the clamp down and towards the front, away from the crampon. (15.8 - 2 and 15.8 - 3)



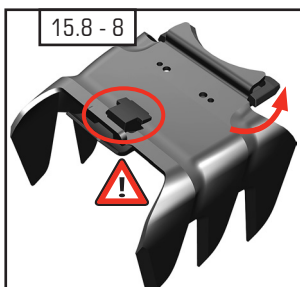
- Fit the adapter (15.8 - 4) from the front / bottom to the crampon as shown. (15.8 - 5 and 15.8 - 6)



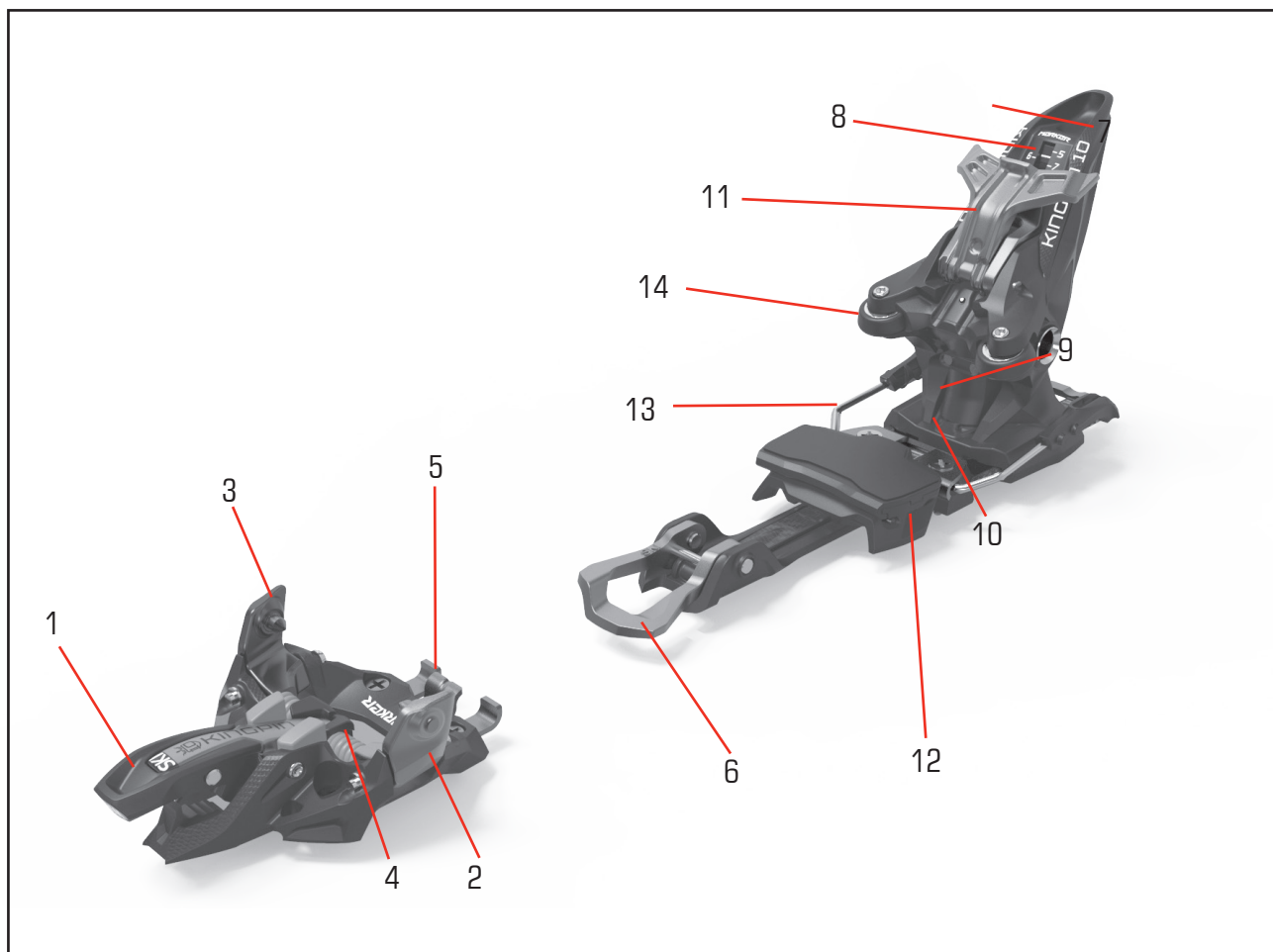
- Push the crampon adapter upwards and towards the back until it clicks into place. (15.8 - 7 and 15.8 - 8)



- Fit the screws and tighten them by hand. (15.8 - 9)



16.1 MARKER KINGPIN BINDING COMPONENTS



MARKER KINGPIN & KINGPIN DEMO BINDING COMPONENTS:

- 1 - Opening lever toe
- 2 - Soleholder toe
- 3 - Toe retaining pins
- 4 - Step-in aids toe
- 5 - Crampon holder
- 6 - Change-over lever for ascent mode
- 7 - Opening lever heel
- 8 - Indicator scale heel vertical release
- 9 - Indicator scale twist release
- 10 - Heel housing
- 11 - Hiking aids 1 and 2
- 12 - Brake pedal
- 13 - Brake arm
- 14 - XXL-Power transmitter

**CAUTION !**

2020 MARKER KINGPIN & KINGPIN MWERKS ski bindings do not meet ISO Certification.

**CAUTION !**

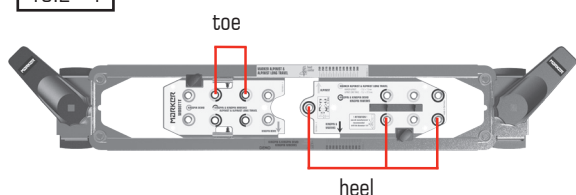
MARKER KINGPIN, KINGPIN MWERKS and KINGPIN DEMO ski bindings are compatible with ski boots in accordance with DIN ISO 9523 with tech inserts to the Dynafit specification of 29.09.2009. In addition, some boot manufacturers have developed and manufactured their own inserts for their touring ski boots which should be suitable for Pin bindings. However, Marker cannot guarantee that these inserts will function correctly. Boots that do not support the settings described in this Marker technical manual (chapter → **12.1 - 12.3**) should not be used with Marker Pin bindings !

The compatibility test of Marker applies solely to the boot / binding function in the interface area. For further information regarding function and compatibility, please refer to the instruction manuals of the ski boot manufacturer.

16.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS



16.2 - 1



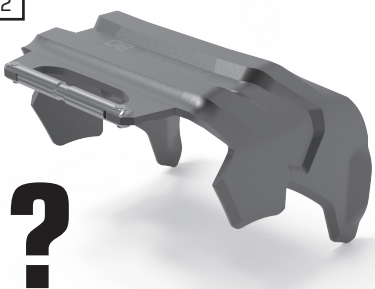
DRILLING THE ATTACHMENT HOLES:

IMPORTANT !



sole length	tool length settings
255 - 269 mm	270 mm
376 - 390 mm	375 mm

16.2 - 2



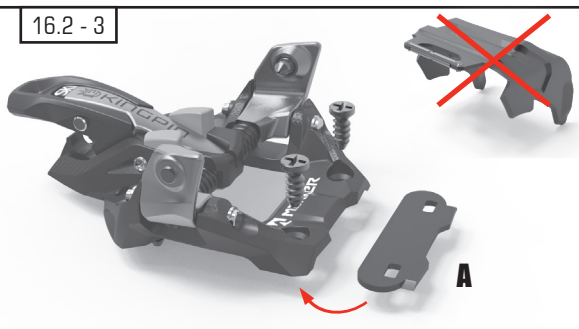
ADJUSTMENT OF THE INSTALLATION TOOL → 3.2

- Place the MARKER KINGPIN & ALPINIST installation tool W008T1T in the correct position on the ski. (16.2 - 1)
- Drill 4 holes for the toe through the front black drill bushings.
- Drill 5 holes for the heel plate through the rear black marked drill bushings.
- Remove the installation tool from the ski.

REMARK:

See DRILLING INSTRUCTIONS → 3.2

16.2 - 3



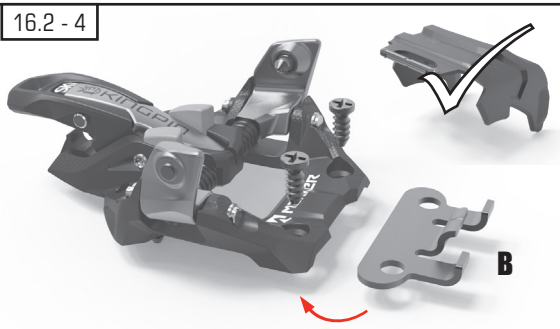
INSTALLING THE TOE:

- Determine the requested mounting option: (16.2 - 2)

MOUNTING OPTION A without crampon holder (16.2 - 3)

- For mounting the toe without crampon holder place the enclosed spacer **A** underneath the toe.

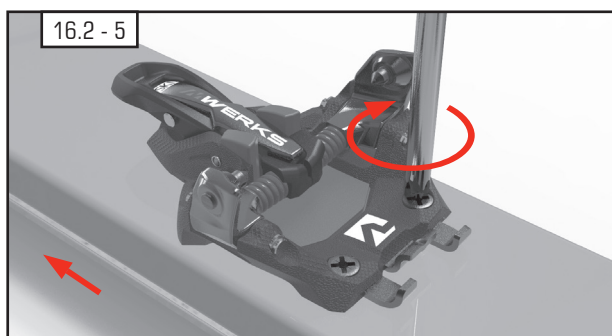
16.2 - 4



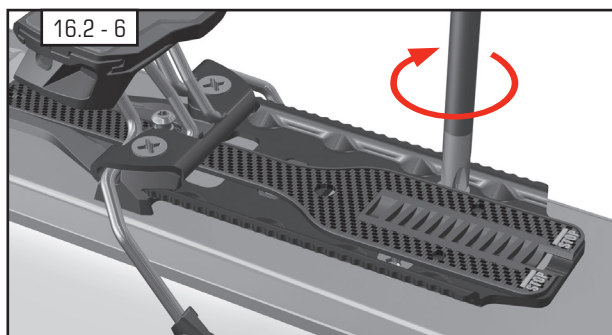
MOUNTING OPTION B with crampon holder (16.2 - 4)

- For mounting the toe with crampon holder mount the enclosed crampon holder **B** underneath the toe.

16.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS

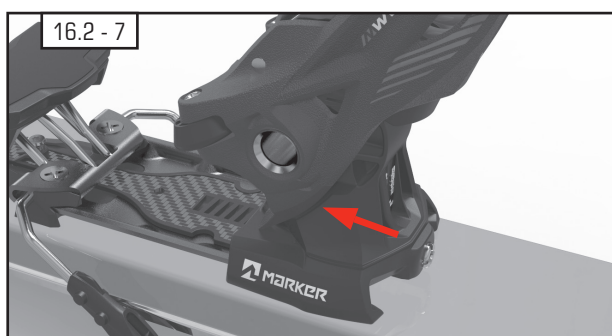


- Install the toe with the pre - installed screws in the front holes.
- Mount the enclosed screws, tighten all screws lightly by hand, do not tighten them firmly. (16.2 - 5)



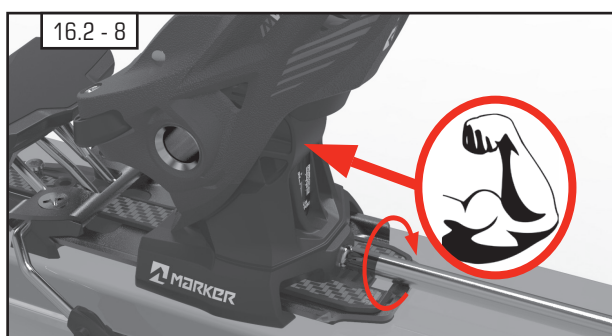
INSTALLING THE HEEL PLATE:

- Install the heel plate with the pre - installed screws in the rear holes.
- Tighten the screws lightly, then firmly. (16.2 - 6)



INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops. (16.2 - 7)



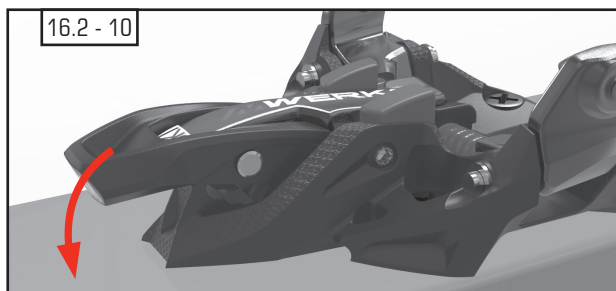
- With strong pressure, screw the heel forward onto the plate by turning the forward pressure adjustment screw. (16.2 - 8)



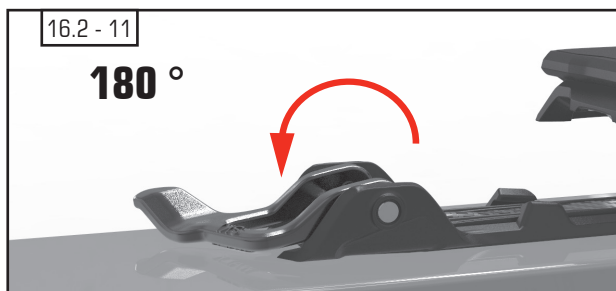
CAUTION !

Screw the heel onto the heel plate by hand !
(16.2 - 9)

16.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS



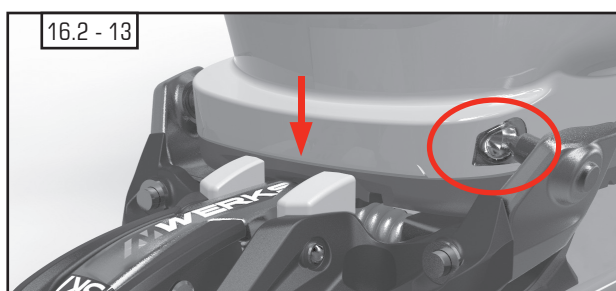
- Open the toe by pressing down the toe opening lever. (16.2 - 10)



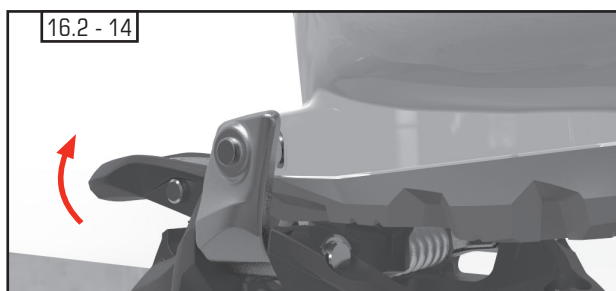
- Switch the change-over lever 180° forward. (16.2 - 11)



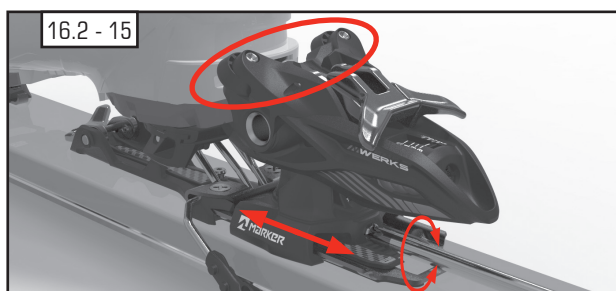
- Open the heel. (16.2 - 12)



- Position the tip of the ski boot between the retaining pins on the toe. Then press the tip of the boot down and step into the toe. (16.2 - 13)



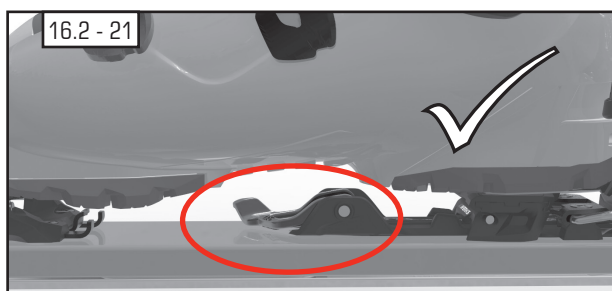
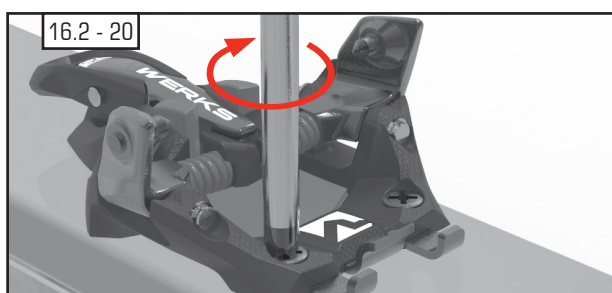
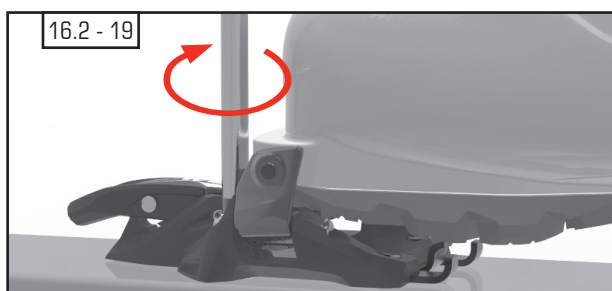
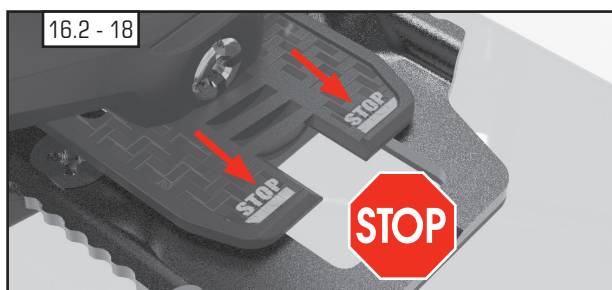
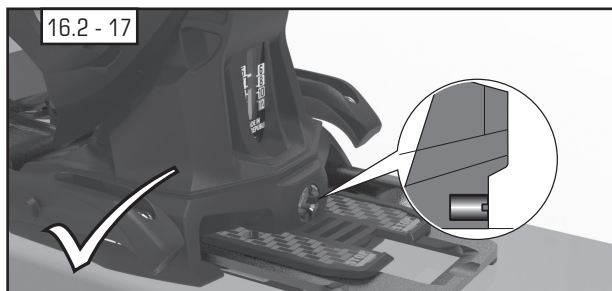
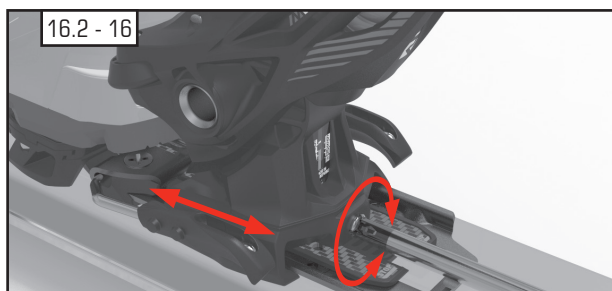
- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (16.2 - 14)



POSITIONING THE HEEL:

- Place the ski boot into the binding and turn the adjustment screw until the position of the heel is approximately right. (16.2 - 15)

16.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing. If this adjustment is incorrect, turn the screw until it is flush with the back of the housing. (16.2 - 16 and 16.2 - 17)
- Remove the ski boot, then re - insert it into the binding and recheck the adjustment..



IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (16.2 - 18)

- With the boot in the closed binding tighten the two front toe screws firmly. (16.2 - 19)

- Remove the ski boot and tighten the two rear toe screws firmly. (16.2 - 20)



CAUTION !

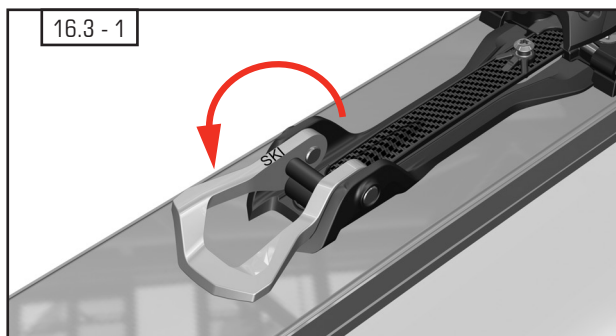
After altering the binding, visually inspect the spacing between the boot sole and the change-over lever: the sole may not touch the lever after stepping in ! (16.2 - 21)



CAUTION:

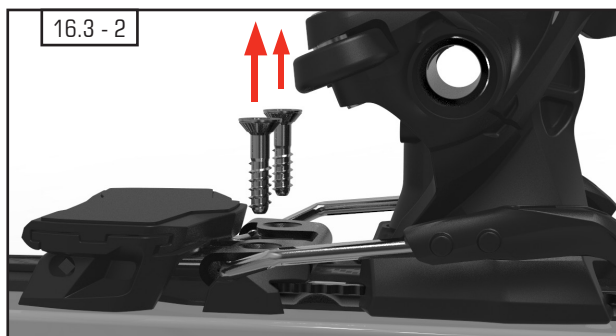
MARKER KINGPIN & KINGPIN MWERKS ski bindings do not have a certificate from TÜV and thus do not meet the relevant standards. The product meets the current technical requirements using the latest technology.

16.3 MARKER KINGPIN REPLACING BRAKES / INSTALLATION OF GLIDING AFD

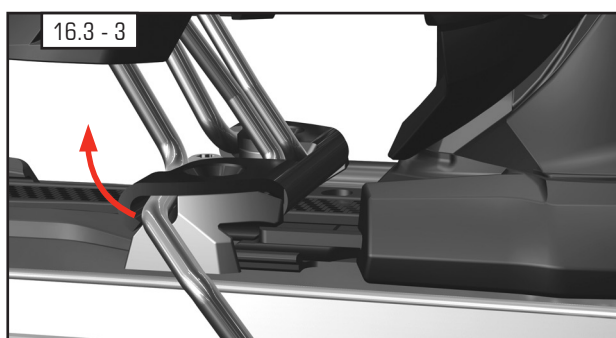


DEMOUNT THE SKI BRAKE:

- Switch the change-over lever 180° forward to the "Ski" position. (16.3 - 1)

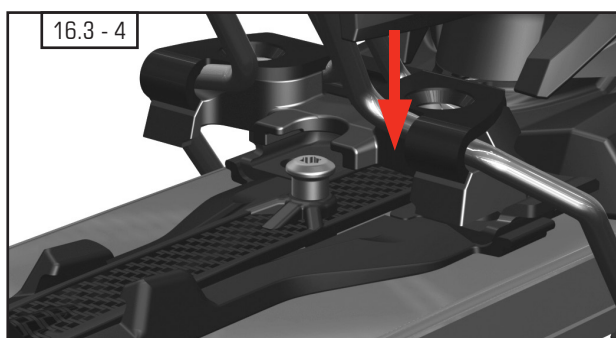


- Remove the attachment screws of the ski brake. (16.3 - 2)

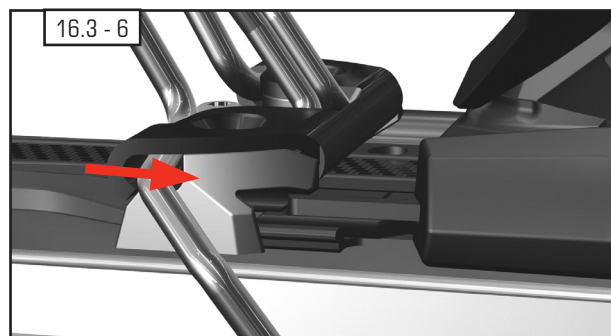


- Pull the ski brake slightly forward and upward to remove. (16.3 - 3)

INSTALL THE KINGPIN BRAKE:

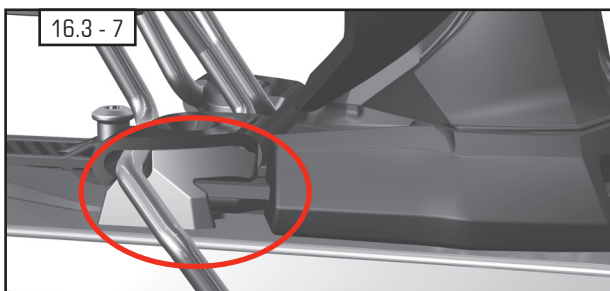


- Mount the brake from top to the heel plate. (16.3 - 4)



- Slide the brake backward onto the heel plate. (16.3 - 5 and 16.3 - 6)

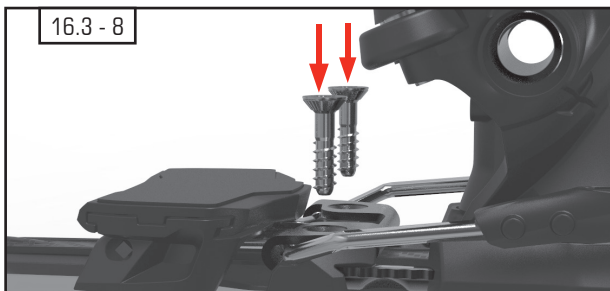
16.3 MARKER KINGPIN REPLACING BRAKES / INSTALLATION OF GLIDING AFD



CAUTION !

Sliding the ski brake backward, make sure that the hooks of the brake base latch beneath the metal base plate and the plastic base plate of the heel on both sides ! (16.3 - 7)

- Install the attachment screws and tighten them by hand. (16.3 - 8)



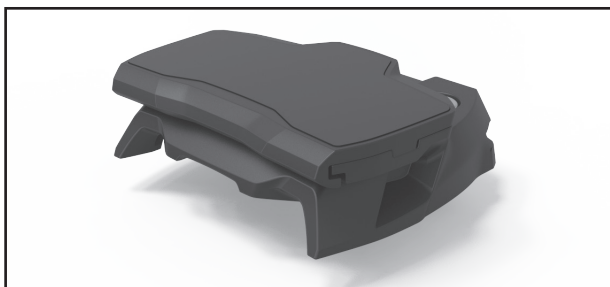
INSTALLATION OF THE KINGPIN GLIDING AFD:

The brakes of the KINGPIN bindings can be replaced by the AFD gliding platform.

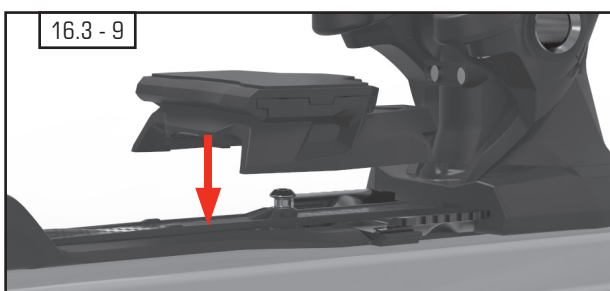


CAUTION !

When using the binding MARKER KINGPIN without brake a safety leash must be installed !



- Remove the brake as described under 16.3 - 1, 16.3 - 2 and 16.6 - 3.
- Mount the gliding AFD from top to the heel plate, ensure that the screw points align with the drilled holes. (16.3 - 9)
- Install the attachment screws and tighten them by hand. (4.5 - 10)



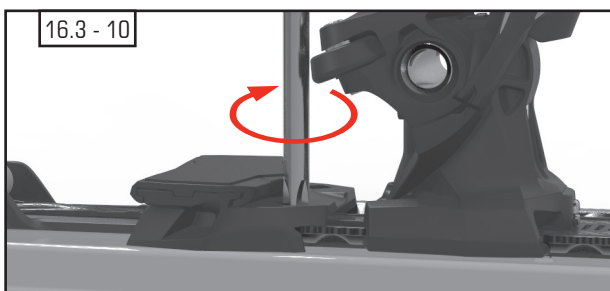
IMPORTANT SAFETY ADVICE !

The MARKER KINGPIN must be equipped with ski brake and / or safety leash !

In case of disregard the ski can speed downhill after a release and hazard other persons.

REMARK:

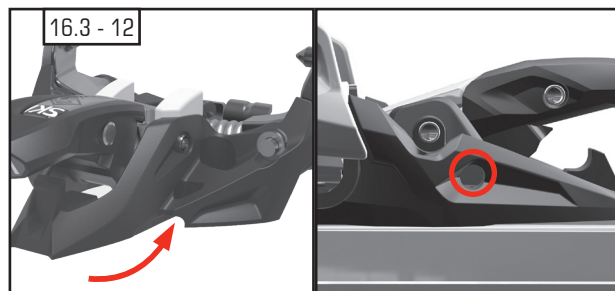
MARKER offers a special Kingpin & Alpinist safety leash. (16.3 - 11) Art. #: L002S1A



ATTACHING THE SAFETY LEASH:

- KINGPIN: Pass the leash through one of the holes at the front of the toe and secure the leash with a cow-hitch.

KINGPIN DEMO: Pass the leash through the hole on the right side of the toe and secure the leash with a cow-hitch. (16.3 - 12)



16.4 MARKER KINGPIN - INFORMATION FOR THE SKIER

In addition to the system explanations → 12.1 - 12.3, the following instructions must be given to the intended user of a MARKER KINGPIN binding:

STEP - IN:

- Clear snow, ice and dirt from the sole of the ski boot and the Pin inserts before stepping into the binding.
- If the heel sole holder is closed, open it by pressing the opening lever with the ski pole tip, boot sole, ski tail or hand.
- If the toe is closed, open it by pressing down the toe opening lever.
- Position the tip of the ski boot on the toe's step-in aids and between the retaining pins on the toe.
- Then press the tip of the boot down and step into the toe until the pins are locked fully into position in the insert.
- Move the locked boot back and forth several times to ensure that boot and binding are securely connected.
- Close the binding by stepping straight down into the heel.

STEP - OUT:

Variant 1:

- Press down the opening lever on the toe with a ski pole, ski, ski boot or by hand.
- Lift the tip of the ski boot slightly and rotate the boot sideways out of the binding. Before you can step in again, the heel must be opened.

Variant 2:

- Press down the opening lever on the heel with a ski pole, ski, ski boot or by hand.
- Lift the heel of the ski boot slightly and press down the opening lever on the toe with a ski pole, ski or your hand.

OPENING THE BINDING AFTER A FALL OR ACCIDENT:

- Press down the opening levers (heel and / or toe) with a ski pole or by hand.

SYSTEM EXPLANATION FOR THE SKIER:

- Explain the boot - to - binding adjustment.
- Show where the release adjustment screws are and explain the adjustment at the visual indicators on the ski bindings and how they correspond to the recorded numbers on the workshop form. The skier should know his own DIN settings and / or skier code.
- Point out the left and the right ski indicators.
- If any system components are worn out of standard or otherwise unsuitable for continued use, the skier must be clearly informed of the problem and warned that continued use may significantly increase his or her risk of injury.
- Advise that if any problem develops with any part of the function unit ski / ski binding / ski boot it should be brought to a MARKER authorized retailer for inspection and service.

RECEIPT OF IN - BOX INSTRUCTIONS:

- Whenever a new ski binding is delivered to the skier she or he should receive the in - box instructions and the warranty information.
- The enclosed info booklet must be handed over to the customer.

MAINTENANCE:

- Explain to the skier that the ski binding should be kept clean and free of dirt, rust, salt or other contaminants.
- Recommend that the complete function unit ski / ski binding / ski boot has to be brought to a MARKER authorized retailer for inspection prior to the beginning of each ski season.

SKIER SIGNATURE

- The skier must read, understand and agree to the conditions specified in the workshop form and / or any release agreement.
- Make sure that the skier signs the workshop form and /or the release agreement. If the skier is a minor, this document should be signed by a parent or a legal guardian.
- A copy of the signed documents has to be handed to the customer.



IMPORTANT !

The skier should understand that there are inherent and other risks in the sport of skiing. Explain that the ski binding will not release under all circumstances nor is it possible to predict every situation in which it will release and is, therefore, no guarantee of his or her safety.



IMPORTANT !

Explain to the skier that touring ski bindings are suitable only for the purpose they are intended for and therewith restrictions are related.



IMPORTANT INFORMATION FOR THE SKIER!

Explain that **MARKER KINGPIN & KINGPIN MWERKS** ski bindings do not meet any ISO Certification and therefore the release function does not need to be tested to verify function release.

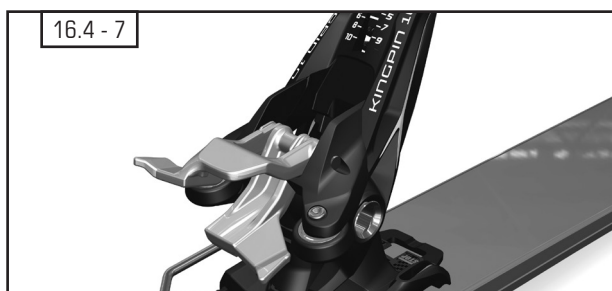
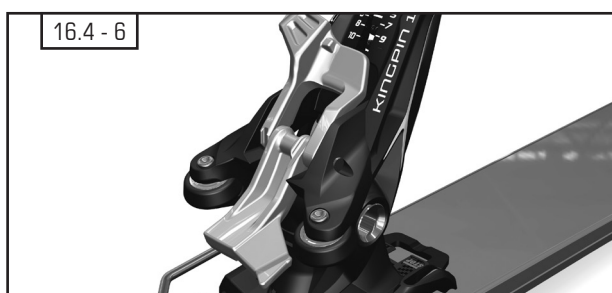
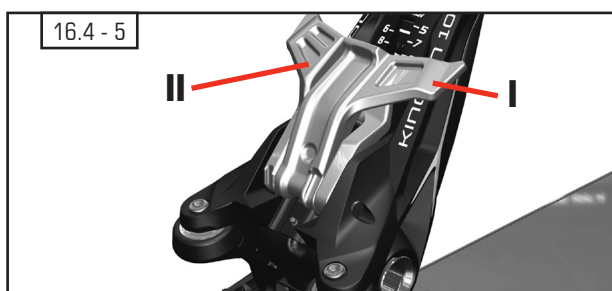
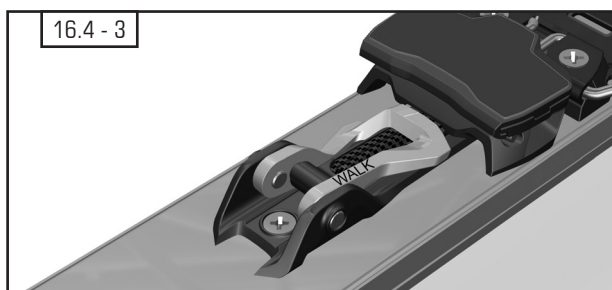
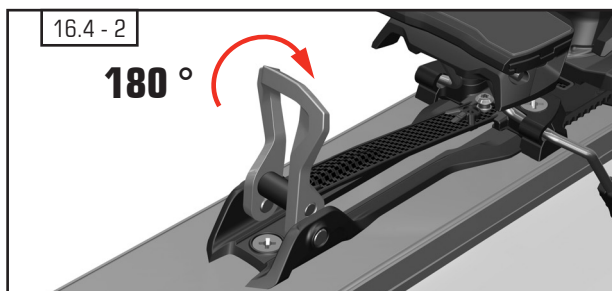
Show where the release adjustment screws are located and explain the visual indicators on the binding and how they do not directly correlate to the initial indicator values on the adjustment chart, but serve as a good starting point for binding setup.

The initial indicator values should be used as a starting point for the binding setting process and may need to be modified in order for the skier to achieve correct retention preference.

NOTE:

Crampon Duke PT, Kingpin & Alpinist → 16.5

16.4 MARKER KINGPIN - INFORMATION FOR THE SKIER



In addition to the Skier Instruction → 15.4, the following instructions must be given to the intended user of a MARKER KINGPIN binding:

CHANGE - OVER FROM SKIING TO HIKING POSITION:

- Open the heel piece to disengage the boot heel from the binding
- Lift and Rotate 180° ski/walk lever located between the toe and heel from SKI to WALK allowing the heelpiece to move back (16.4-1, 16.4-2 and 16.4-3)
- With the boot toe engaged with the toe piece of the binding lift up on the toe lever to the (WALK) position. (16.4-4) There will be noticeable clicks into a catch while lifting up on the lever and should be pulled up as far as possible.



- Stepping back down firmly with the boot heel the heel piece will close behind the boot heel and the brake will lock down, now being enabled to climb at the 0° walking position.

USING THE HIKING AID

- In hiking mode, you can use two hiking aids with different angles. (16.4 - 5)

HIKING AID LOW POSITION:

- To use this position, fold down hiking aid 1 with the pole disc or by brushing along the heel opening lever with the tip of the pole. (16.4 - 6)

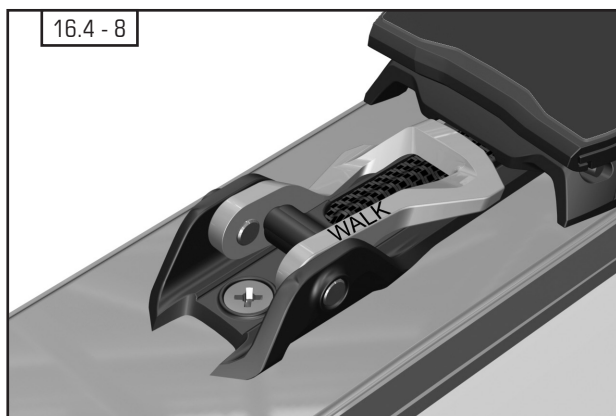
HIKING AID HIGH POSITION:

- To use this position, fold down the hiking aid 2 with the pole disc or by brushing along the heel opening lever with the tip of the pole. (16.4 - 7)

HIKING AID BASIC POSITION:

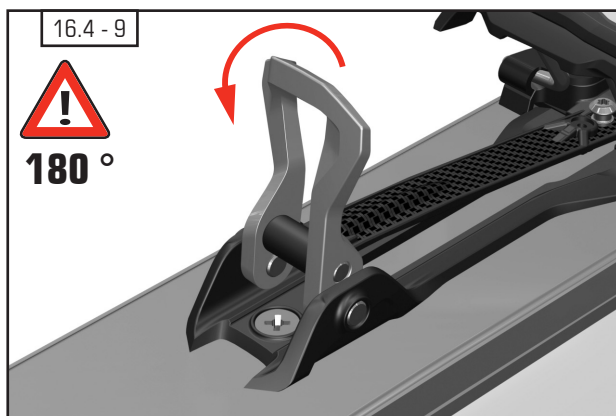
- Fold the hiking aids back into the starting position individually or together with the pole disc, or by brushing along the heel opening lever with the tip of the pole.

16.4 MARKER KINGPIN - INFORMATION FOR THE SKIER

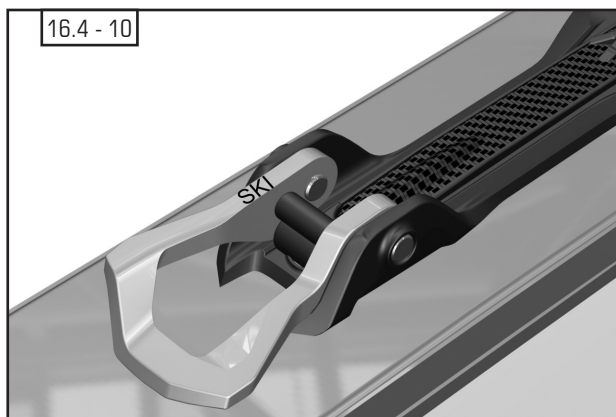


CHANGING FROM WALKING - MODE TO SKIING - MODE:

- Free the bindings from snow and ice before changing from the walking - mode to the skiing - mode !

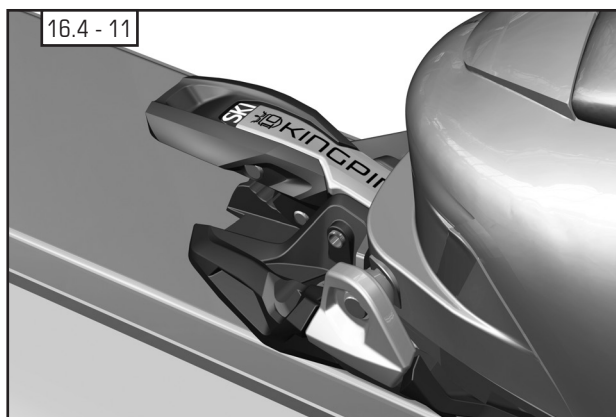


- In order to change from the WALK mode to the SKI mode, open the heel piece and switch the WALK/SKI lever 180° Forward, located between the toe and heel, From WALK to SKI allowing the heel piece to move forward and unlock the brake. (16.4-8, 16.4-9 and 16.4-10)



REMARK:

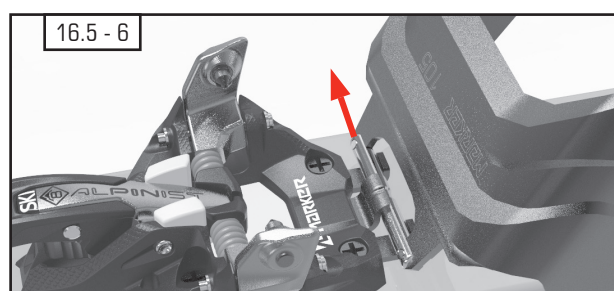
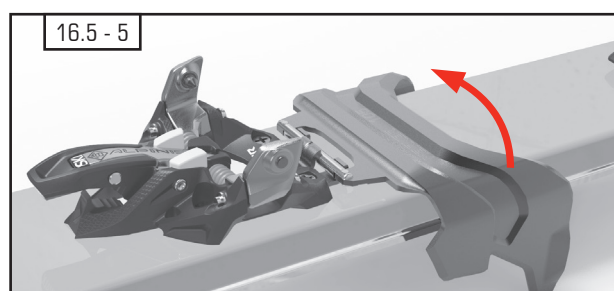
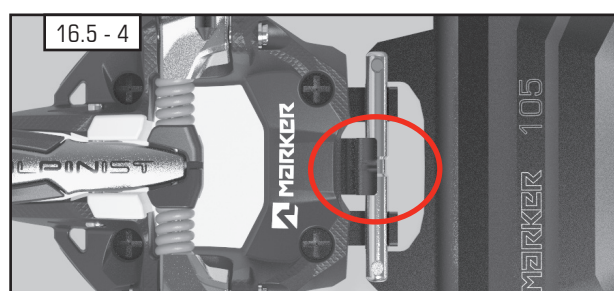
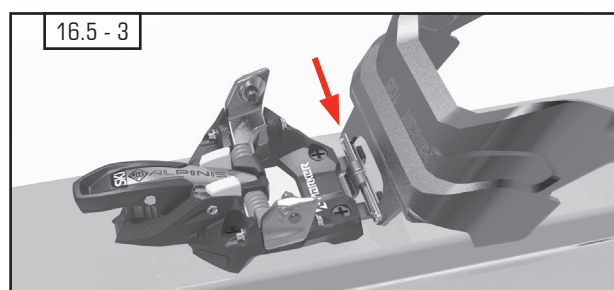
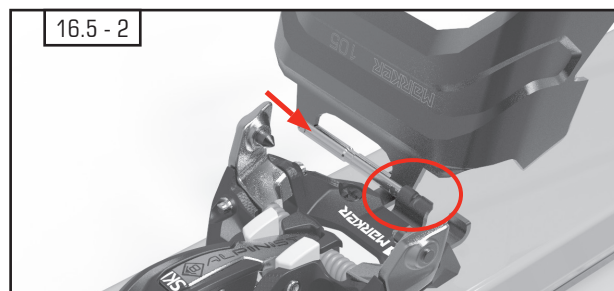
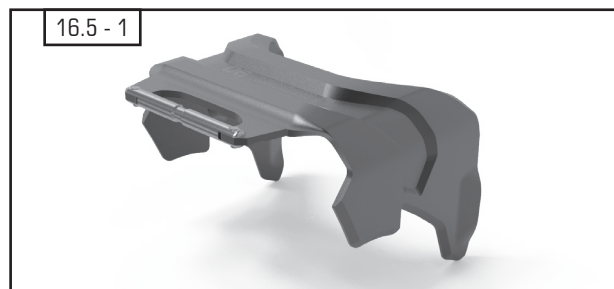
Because the brake is not active in ascent mode, the lever must be set to the descent position before the skins are removed from the ski.



CAUTION !

For downhill skiing, always make sure that the opening lever toe (at the front end of the toe) is in the flat skiing position. The binding should always be in downhill mode (SKI) when skiing ! (16.4 - 11)

16.5 MARKER KINGPIN & ALPINIST & DUKE PT - CRAMPONS



PIN & DUKE PT CRAMPONS:

MARKER offers special crampons for the MARKER PIN (Alpinist & Kingpin) & DUKE PT models: (16.5 - 1)

Crampons Alpinist & Kingpin 90 mm (ski width 75-90 mm)

Art.-Nr. H001P1P

Crampons Alpinist & Kingpin 105 mm (ski width 90-105 mm)

Art.-Nr. H002P1P

Crampons Alpinist & Kingpin 120 mm (ski width 105-120 mm)

Art.-Nr. H003P1P

Crampons DUKE PT 105 mm (ski width → 105 mm) Art. Nr.: H006U1R

Crampons DUKE PT 125 mm (ski width 105-125 mm) Art. Nr.: H007U1R

ATTACHING THE CRAMPONS:

- Insert the crampon with the axis into the recess provided at the toe. Tilt the crampon around 60° to insert. (16.5 - 2 and 16.5 - 3)
- The crampon must noticeably click in place when it is centered. (16.5 - 4)



CAUTION !

Using crampons that are too small can damage the ski !



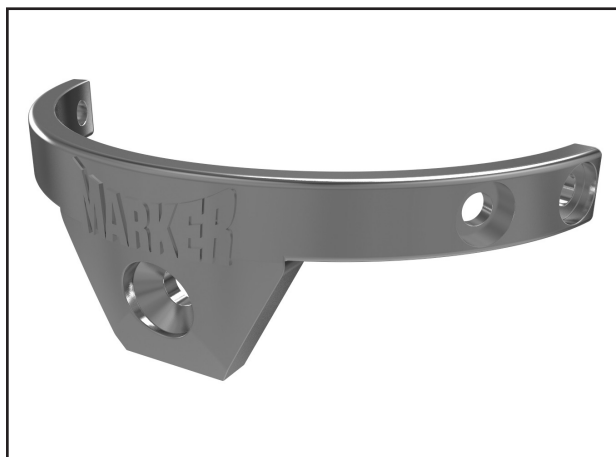
CAUTION !

No hiking aid may be used when walking with crampons. The effective action of the crampon in the snow may otherwise be too small.

DETACHING THE CRAMPONS:

- Tilt the crampon around 60°. (16.5 - 5)
- Push against the crampon from the side and pull out. (16.5 - 6)

16.6 DIN ADAPTER AT BOOT



DIN - ADAPTER AT BOOT

**FOR DYNAFIT TLT 5 + TLT 6 BOOTS
FOR ATOMIC BACKLAND BOOTS**

A001P1D



IMPORTANT !

The Marker DIN Adapter can only be used on specific AT boots (Dynafit TLT 5, Dynafit TLT 6 and Atomic Backland models). These boot models are not compliant with the dimensions of the ISO AT Bootsole (ISO 9523). Adding the Marker DIN Adapter to these specific boot models will allow them to properly function with the Marker Kingpin Bindings.



IMPORTANT !

Tools required for assembly:

DIN Adapter,
Power drill,
Drill bit size 2mm,
small slotted screwdriver,
Phillips head screwdriver size PH2,
Torx screwdriver size 10
(16.6 - 1)

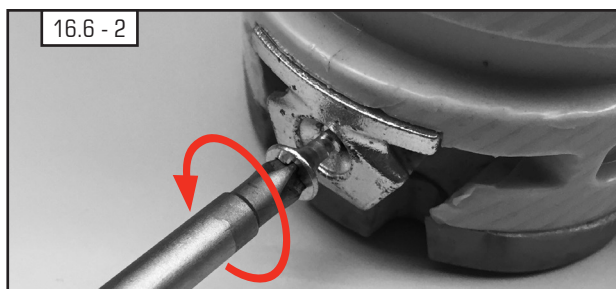
- Use the Phillips head screwdriver to unscrew the screw with which the heel insert is fixed in place. (16.6 - 2)

- Then remove the heel insert. This can be gently levered out using a small slotted screwdriver. (16.6 - 3 and 16.6 - 4)

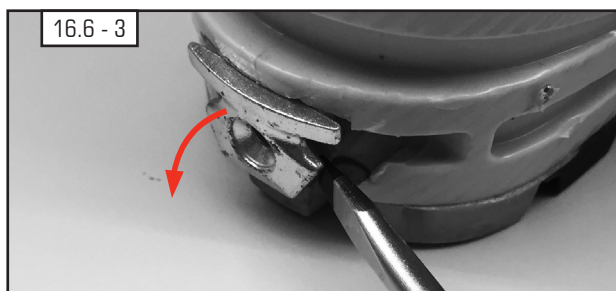
16.6 - 1



16.6 - 2



16.6 - 3



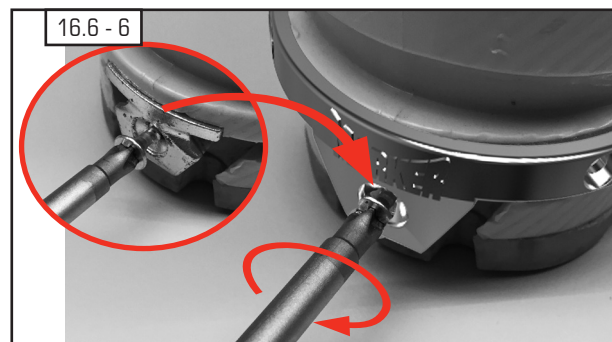
16.6 - 4



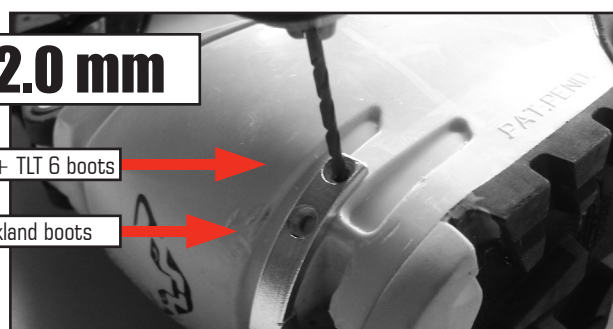
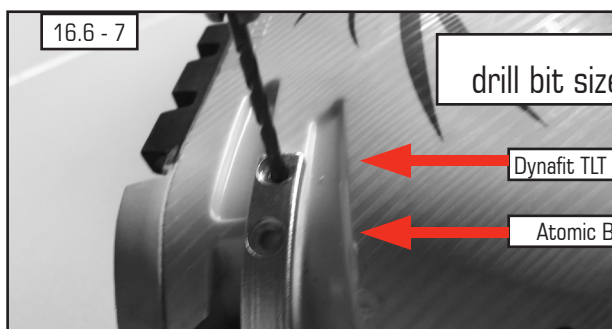
16.6 DIN ADAPTER AT BOOT



- Mount the Marker DIN Adapter on the heel. While doing so, check that there is no gap between the edge of the boot heel and the DIN adapter (16.6 - 5 and 16.6 - 6). If applicable, hit the center of the DIN Adapter with a rubber mallet.



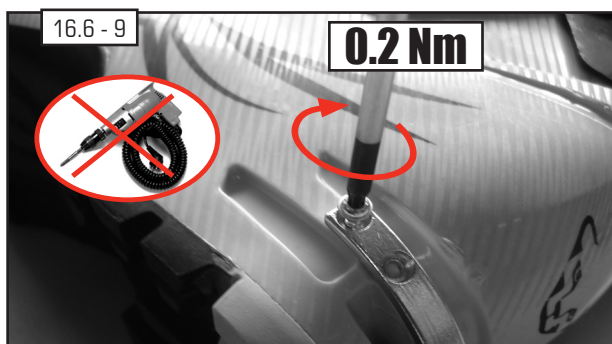
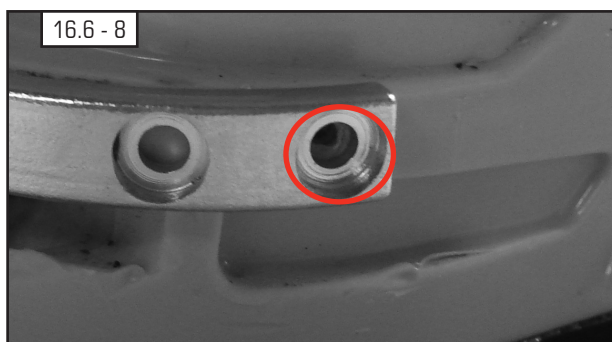
- Use the original screw from your boot to fix the DIN Adapter to the boot. (16.6 - 6)
- Drill the appropriate holes at both ends of the DIN Adapter depending on boot model. Drill into these holes that are around 5 mm deep with a 2.0 mm drill bit. (16.6 - 7 and 16.6 - 8)



drill bit size **2.0 mm**

Dynafit TLT 5 + TLT 6 boots

Atomic Backland boots



0.2 Nm

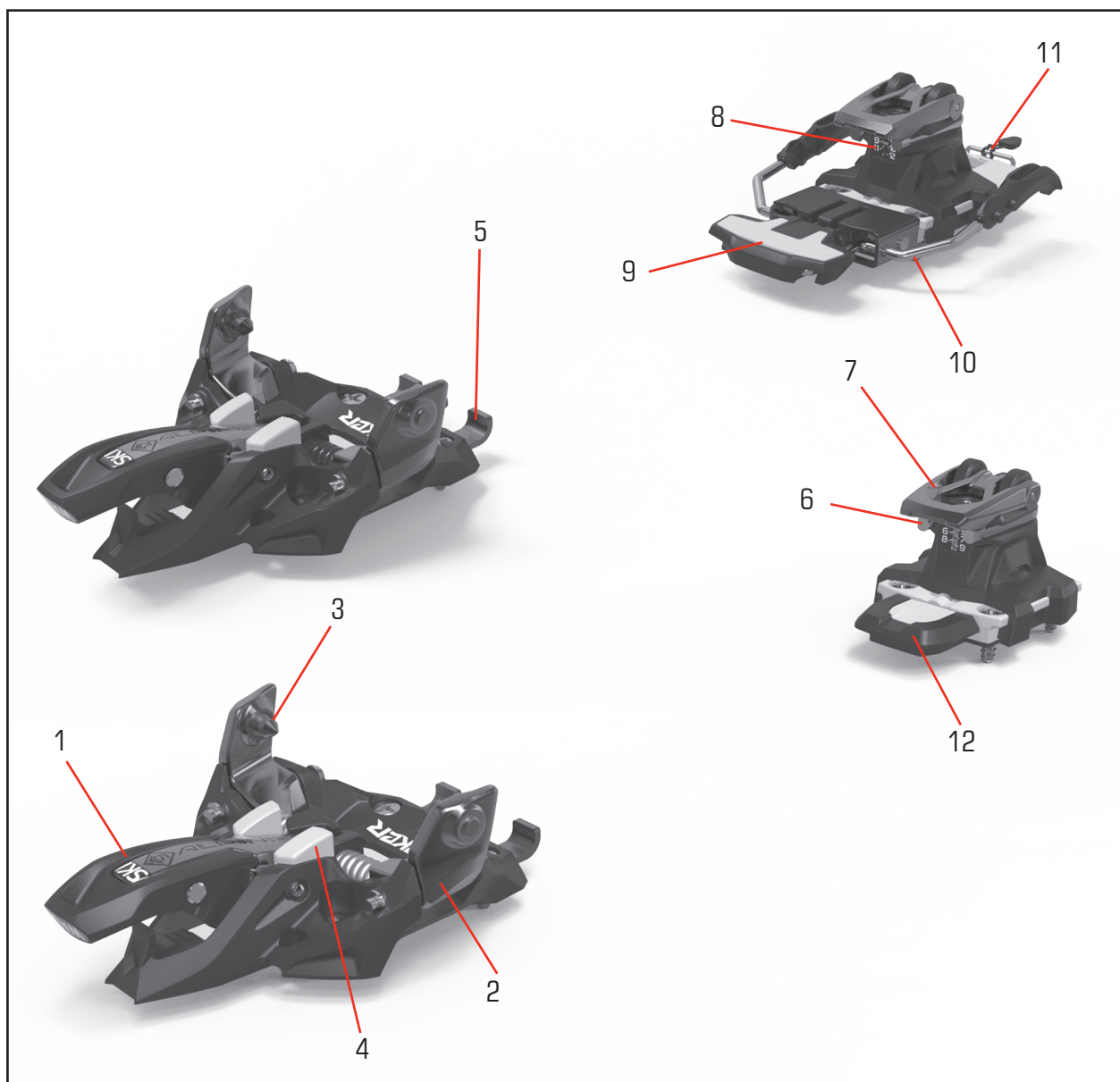
- Then tighten the Torx screws supplied using the manual screwdriver with 0.2 Nm. (16.6 - 9 and 16.6 - 10)

16.6 DIN ADAPTER AT BOOT



- The Marker DIN Adapter complete installation.(16.6-11)

17.1 MARKER ALPINIST & ALPINIST LONG TRAVEL BINDING COMPONENTS

**MARKER ALPINIST & ALPINIST LONG TRAVEL BINDING COMPONENTS:**

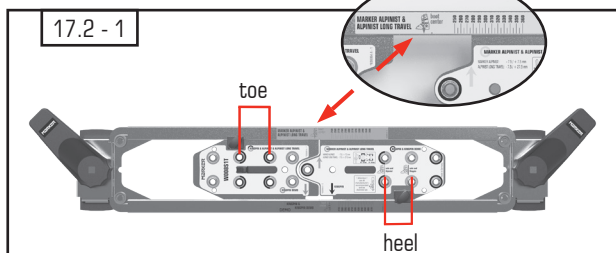
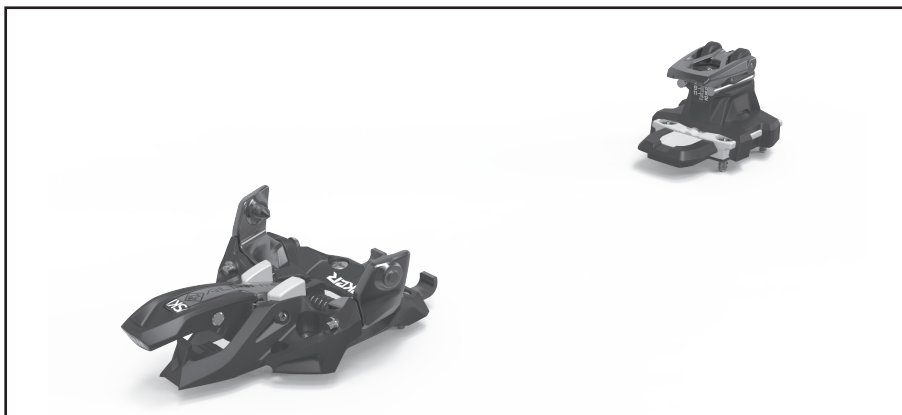
- 1 - Opening lever toe
- 2 - Soleholder toe
- 3 - Pin-Tech toe retaining pins
- 4 - Step-in aids toe
- 5 - Crampon holder
- 6 - Locking bolt heel
- 7 - Hiking aid
- 8 - Indicator scale for release value
- 9 - Brake pedal
- 10 - Brake arm
- 11 - Brake lever
- 12 - Heel platform

**CAUTION !**

MARKER ALPINIST ski bindings do not meet ISO Certification.

MARKER ALPINIST ski bindings are compatible with ski boots with tech inserts to the Dynafit specification of 29.09.2009. In addition, some boot manufacturers have developed boots and manufactured their own inserts for their touring ski boots which should be suitable for Pin-Tech bindings. However, Marker cannot guarantee that these inserts will function correctly.

17.2 INSTALLATION OF MARKER ALPINIST BINDINGS



DRILLING THE ATTACHMENT HOLES:

IMPORTANT !

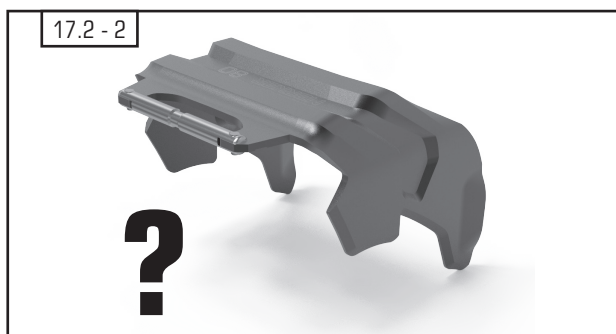


sole length	tool length settings
243 - 249 mm	250 mm
361 - 367 mm	360 mm

- Place the MARKER KINGPIN & ALPINIST installation tool W008S1T in the correct position on the ski. (17.2 - 1)
- Drill 4 holes for the toe through the front green marked drill bushings.
- Drill 4 holes for the heel plate through the rear green marked drill bushings.
- Remove the installation tool from the ski.

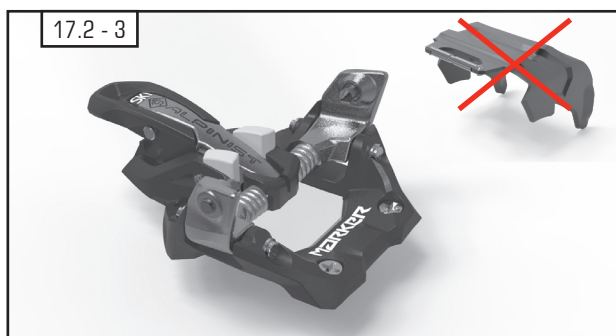
REMARK:

See DRILLING INSTRUCTIONS → 3.2



IMPORTANT !

The total load of 110 kg / 242 lbs for the binding system must not be exceeded.



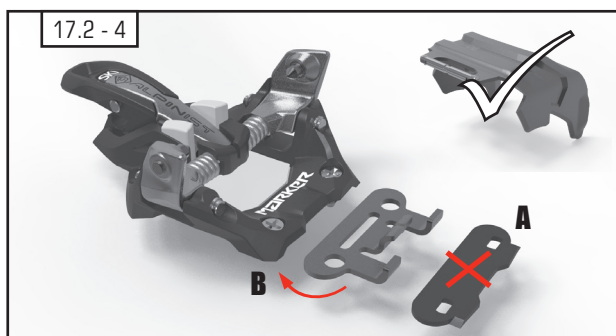
INSTALLING THE TOE:

- Determine the requested mounting option: (17.2 - 2)

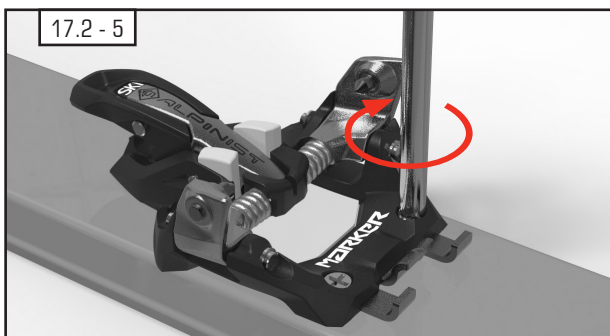
MOUNTING OPTION A without crampon holder (17.2 - 3)

MOUNTING OPTION B with crampon holder (17.2 - 4)

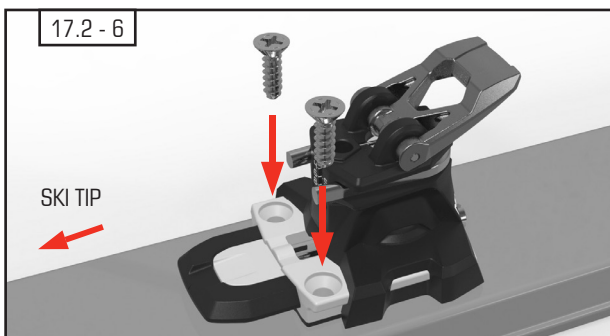
- For mounting the toe with crampon holder remove the premounted spacer **A** and replace it by the enclosed crampon holder **B**.



17.2 INSTALLATION OF MARKER ALPINIST BINDINGS



- Install the toe with the pre - installed screws in the front holes.
- Tighten the screws lightly, then firmly. (17.2 - 5)

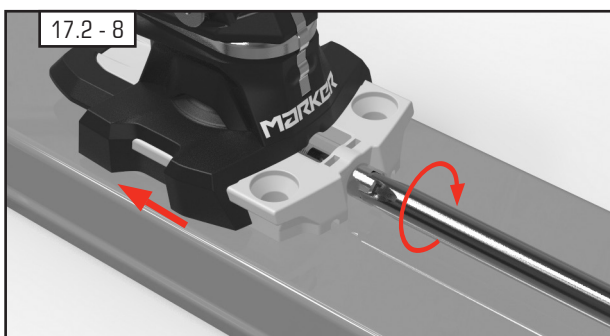


INSTALLING THE HEEL:

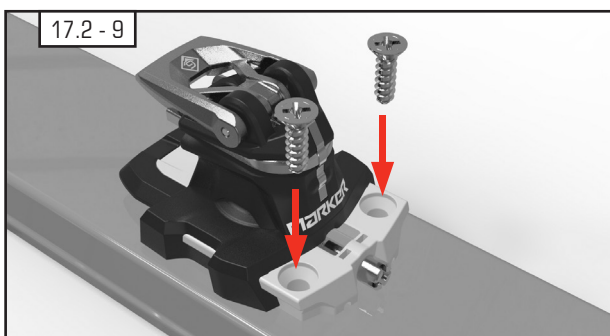
- Install the heel with the heel platform facing forward to the rear holes. Insert the two front screws. (17.2 - 6)



- Tighten the screws lightly, then firmly. (17.2 - 7)



- Screw the heel forward by turning the length adjustment screw until the rear screw holes are accessible. (17.2 - 8)

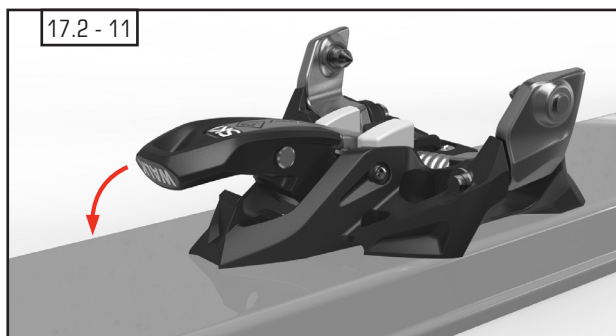


- Insert the two rear screws. (17.2 - 9)

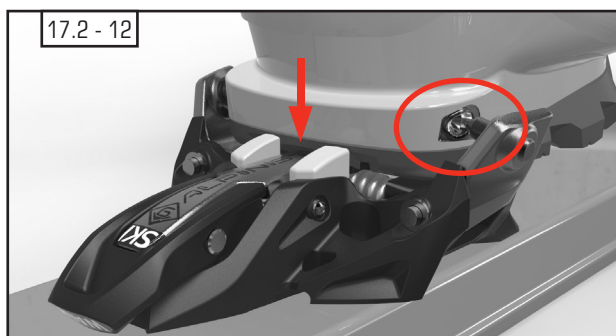
17.2 INSTALLATION OF MARKER ALPINIST BINDINGS



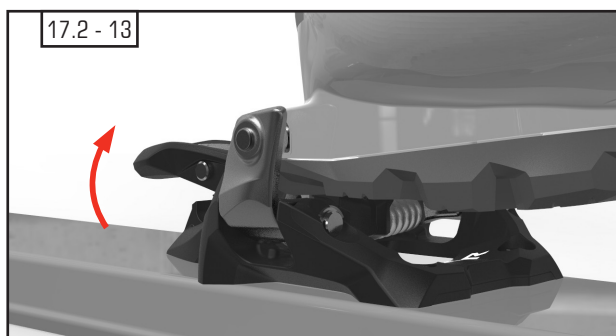
- Tighten the screws lightly, then firmly. (17.2 - 10)



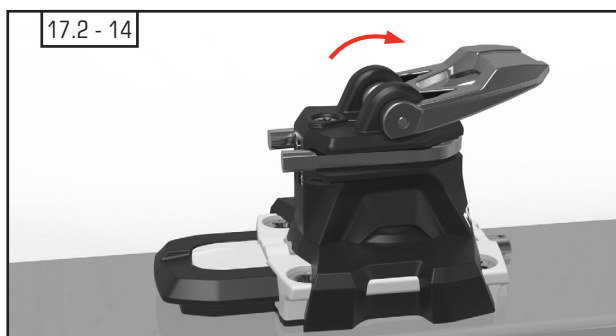
- Open the toe by pressing down the toe opening lever. (17.2 - 11)



- Position the tip of the ski boot between the Pin-Tech retaining pins on the toe. Then press the tip of the boot down and step into the toe. (17.2 - 12)



- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (17.2 - 13)

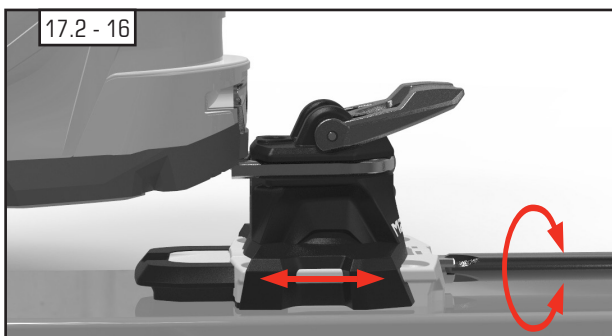


- Push the hiking aid backwards. (17.2 - 14)

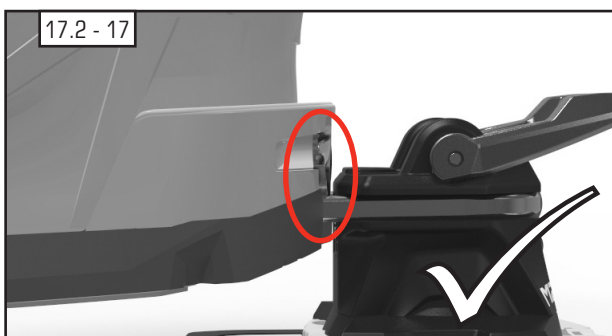
17.2 INSTALLATION OF MARKER ALPINIST BINDINGS



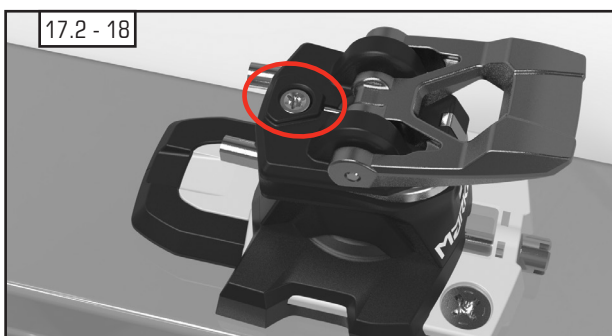
- Attach the heel of the boot to the heel binding. (17.2 - 15)



- Position the heel by turning the length adjustment screw. (17.2 - 16)



- Check the correct heel position: the boot has to be flush with the heel housing. Check by inserting a test strip between the boot and the heel housing. The test strip should be able to be removed without tearing. (17.2 - 17)



IMPORTANT!

For the adjustment of the lateral heel release force, a Torx TX 20 is needed ! (17.2 - 18)



- Adjust the lateral release force. (17.2 - 19)

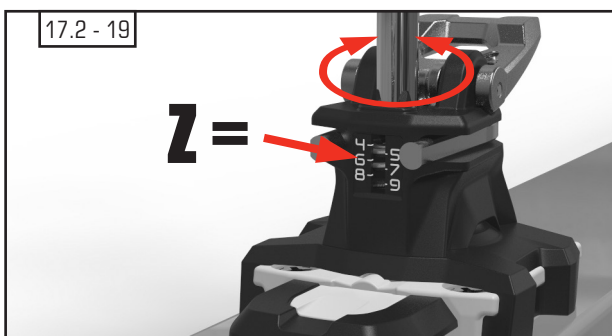


IMPORTANT INFORMATION FOR THE SKIER!

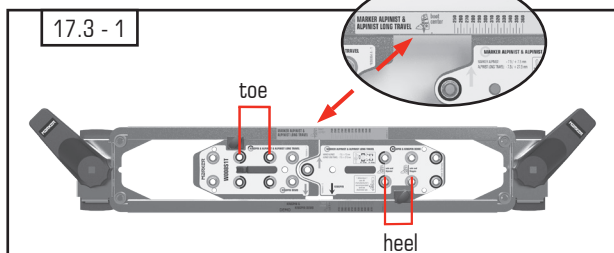
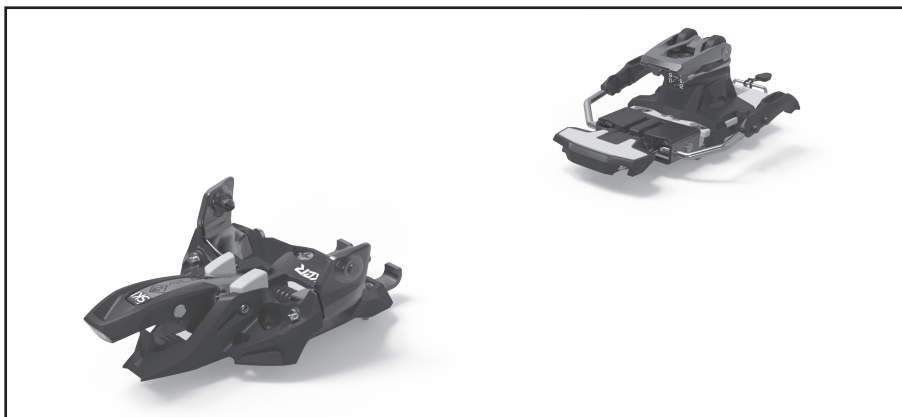
Explain that **MARKER ALPINIST** ski bindings do not meet any ISO Certification and therefore the release function does not need to be tested to verify function release.

Show where the release adjustment screw is located and explain the visual indicators on the binding and how they do not directly correlate to the initial indicator values on the adjustment chart, but serve as a good starting point for binding setup. Explain the U-BOW (Spring) is a fixed verticle release force and can be changed to achieve the skiers preferred vertical release. Advise the skier as to the correct U-BOW (Spring) per their release/retention preference.

The initial indicator values should be used as a starting point for the binding setting process and may need to be modified in order for the skier to achieve correct retention preference.



17.3 INSTALLATION OF MARKER ALPINIST LONG TRAVEL BINDINGS



DRILLING THE ATTACHMENT HOLES:

IMPORTANT !

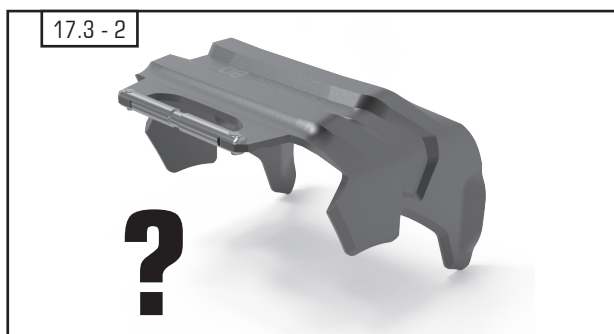


sole length	tool length settings
243 - 249 mm	250 mm
361 - 387 mm	360 mm

- Place the MARKER KINGPIN & ALPINIST installation tool W008S1T in the correct position on the ski. (17.3 - 1)
- Drill 4 holes for the toe through the front green marked drill bushings.
- Drill 4 holes for the heel plate through the rear green marked drill bushings.
- Remove the installation tool from the ski.

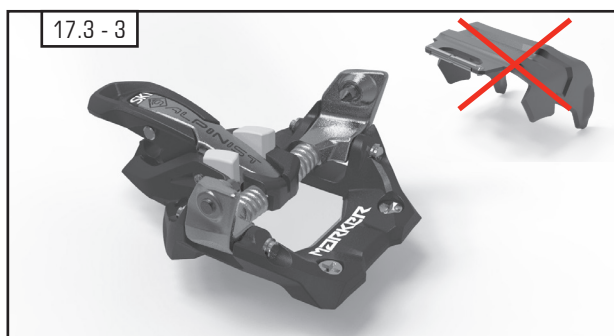
REMARK:

See DRILLING INSTRUCTIONS → 3.2



IMPORTANT !

The total load of 110 kg / 242 lbs for the binding system must not be exceeded.



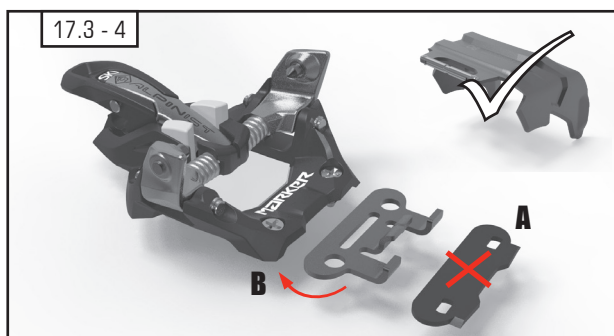
INSTALLING THE TOE:

- Determine the requested mounting option: (17.3 - 2)

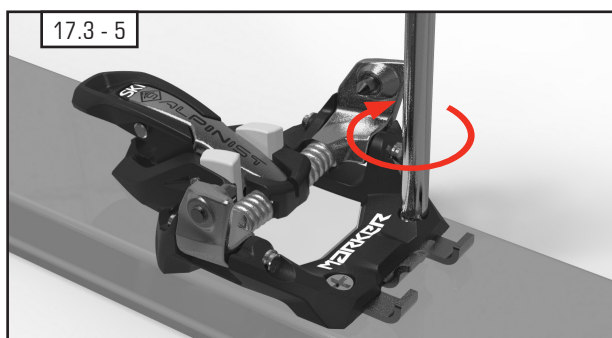
MOUNTING OPTION A without crampon holder (17.3 - 3)

MOUNTING OPTION B with crampon holder (17.3 - 4)

- For mounting the toe with crampon holder remove the premounted spacer **A** and replace it by the enclosed crampon holder **B**.



17.3 INSTALLATION OF MARKER ALPINIST LONG TRAVEL BINDINGS

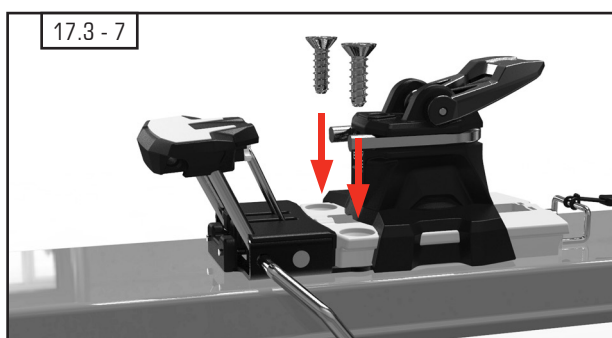


- Install the toe with the pre - installed screws in the front holes.
- Tighten the screws lightly, then firmly. (17.3 - 5)

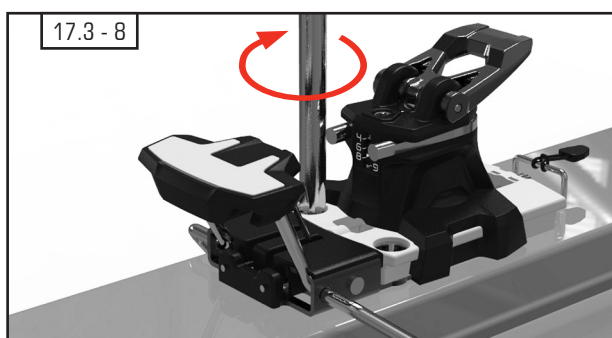


INSTALLING THE HEEL:

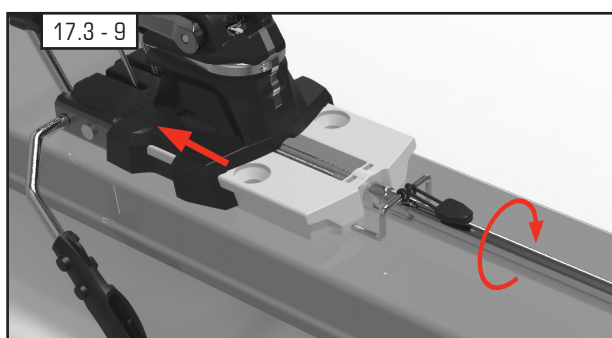
- Mount the heel from top to the brake. (17.3 - 6)



- Install the heel to the rear holes. Insert the two front screws. (17.3 - 7)

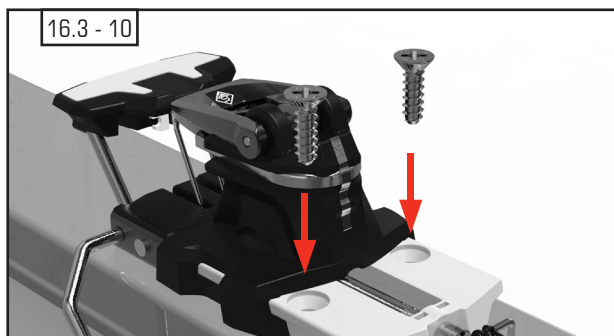


- Tighten the screws lightly, then firmly. (17.3 - 8)



- Screw the heel forward by turning the length adjustment screw until the rear screw holes are accessible. (17.3 - 9)

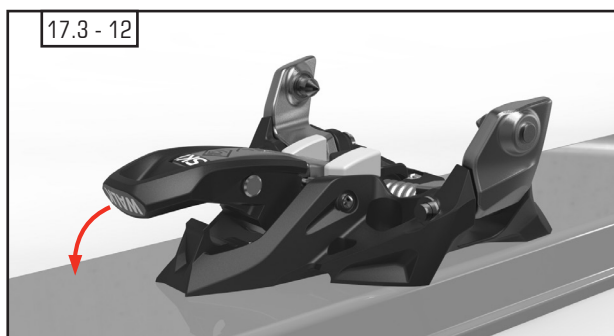
17.3 INSTALLATION OF MARKER ALPINIST LONG TRAVEL BINDINGS



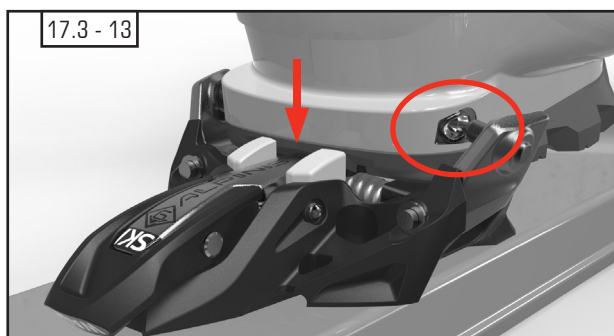
- Insert the two rear screws. (17.3 - 10)



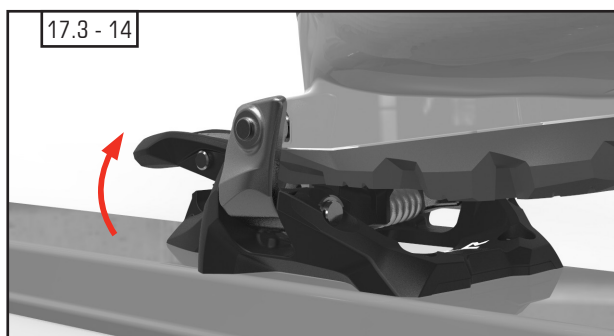
- Tighten the screws lightly, then firmly. (17.3 - 11)



- Open the toe by pressing down the toe opening lever. (17.3 - 12)

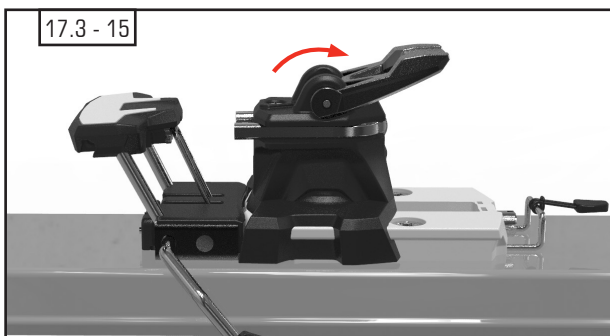


- Position the tip of the ski boot between the Pin-Tech retaining pins on the toe. Then press the tip of the boot down and step into the toe. (17.3 - 13)



- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (17.3 - 14)

17.3 INSTALLATION OF MARKER ALPINIST LONG TRAVEL BINDINGS



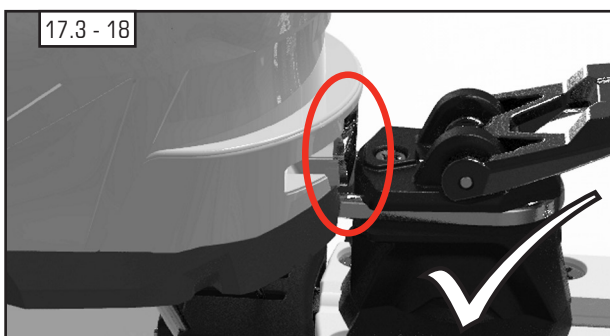
- Push the hiking aid backwards. (17.3 - 15)



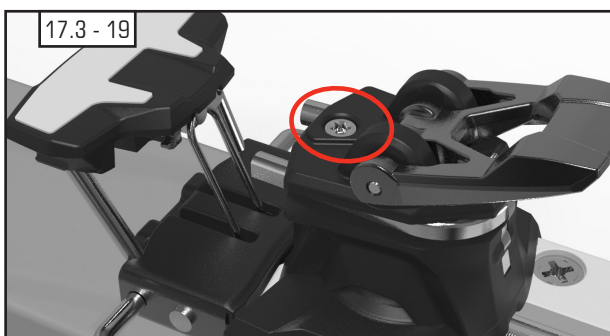
- Attach the heel of the boot to the heel binding. (17.3 - 16)



- Position the heel by turning the length adjustment screw. (17.3 - 17)



- Check the correct heel position: the boot has to be flush with the heel housing. (17.3 - 18)

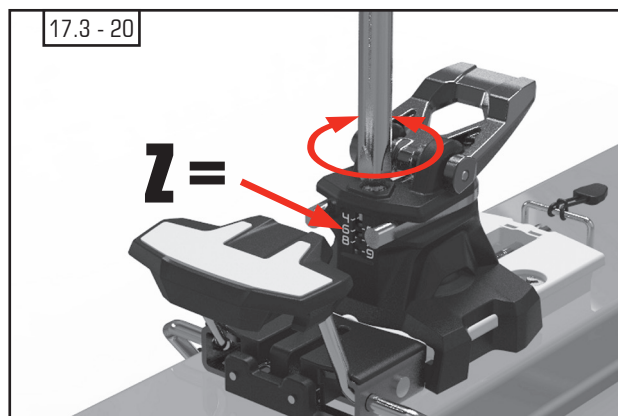


IMPORTANT !

For the adjustment of the lateral heel release force a Torx TX 20 is needed ! (17.3 - 19)



17.3 INSTALLATION OF MARKER ALPINIST LONG TRAVEL BINDINGS



- Adjust the lateral release force. (17.3 - 20)

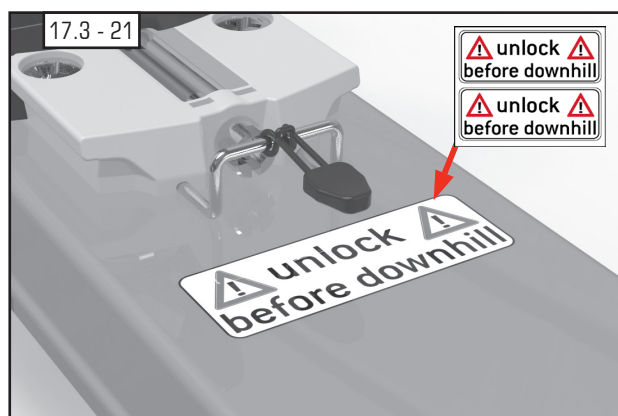


IMPORTANT INFORMATION FOR THE SKIER!

Explain that **MARKER ALPINIST** ski bindings do not meet any ISO Certification and therefore the release function does not need to be tested to verify function release.

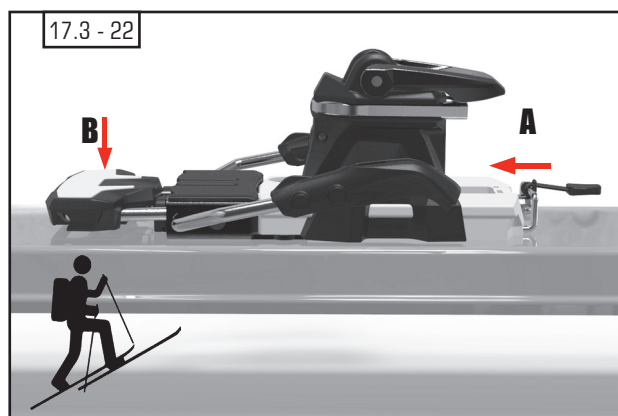
Show where the release adjustment screw is located and explain the visual indicators on the binding and how they do not directly correlate to the initial indicator values on the adjustment chart, but serve as a good starting point for binding setup. Explain the U-BOW (Spring) is a fixed vertical release force and can be changed to achieve the skier's preferred vertical release. Advise the skier as to the correct U-BOW (Spring) per their release/retention preference.

The initial indicator values should be used as a starting point for the binding setting process and may need to be modified in order for the skier to achieve correct retention preference.

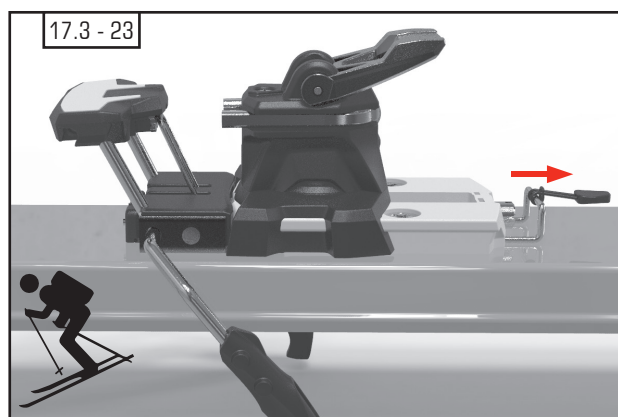


NOTE:

When mounting the binding make sure that you attach the enclosed stickers to the ski. (17.3 - 21)



- Changing the brake over from descent to ascent position: Slide the brake lever forward until you feel it lock in place. The brake is engaged by hand by pushing the brake pedal down or by stepping down on the pedal when stepping into the binding. (17.3 - 22)



- Changing the brake over from ascent to descent position: To disengage the brake, push the brake lever backward until you feel it lock in place. (17.3 - 23)

17.4 MARKER ALPINIST & ALPINIST LONG TRAVEL - INFORMATION FOR THE SKIER



The following instructions must be given to the intended user of a MARKER ALPINIST / ALPINIST LONG TRAVEL binding:

NOTE:

The total load of 110 kg / 242 lbs for the binding system must not be exceeded. (17.4 - 1)



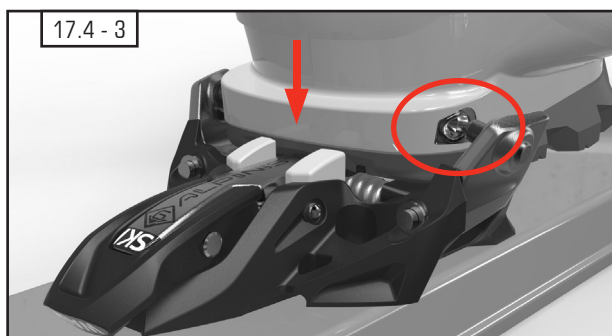
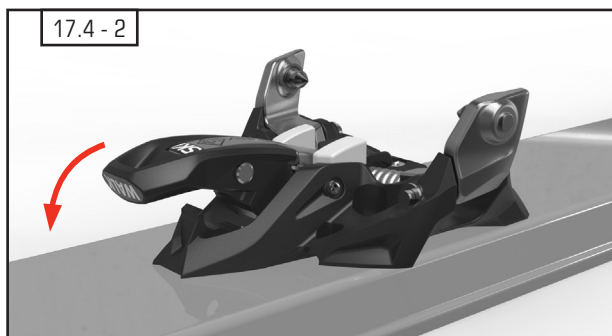
CAUTION:

MARKER ALPINIST ski bindings do not meet ISO Certification.

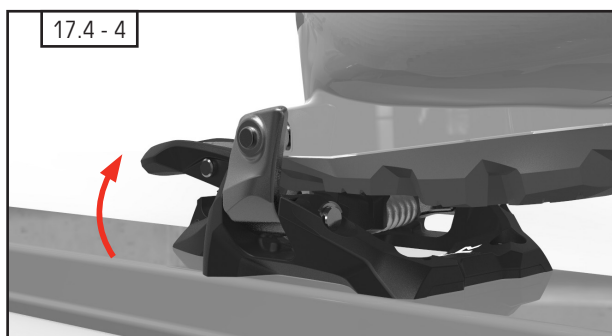
MARKER ALPINIST ski bindings are compatible with ski boots with tech inserts to the Dynafit specification of 29.09.2009. In addition, some boot manufacturers have developed boots and manufactured their own inserts for their touring ski boots which should be suitable for Pin-Tech bindings. However, Marker cannot guarantee that these inserts will function correctly.

STEP IN:

- Clear snow, ice and dirt from the sole of the ski boot and the Pin-Tech inserts before stepping into the binding. (17.4 - 2)
- If the toe is closed, open it by pressing down the toe opening lever. (17.4 - 2)



- Position the tip of the ski boot on the toe's step-in aids and between the Pin-Tech retaining pins on the toe. (17.4 - 3)
- Then press the tip of the boot down and step into the toe until the pins are locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (17.4 - 4)

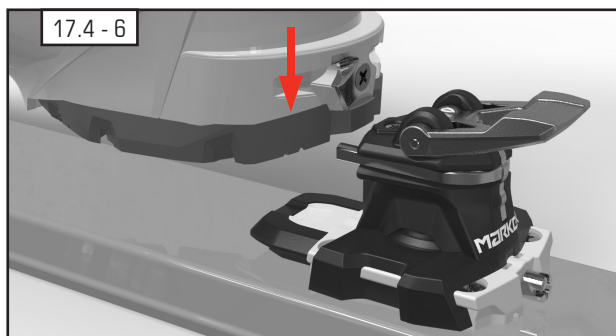


- Move the locked boot back and forth several times to ensure that boot and binding are securely connected.

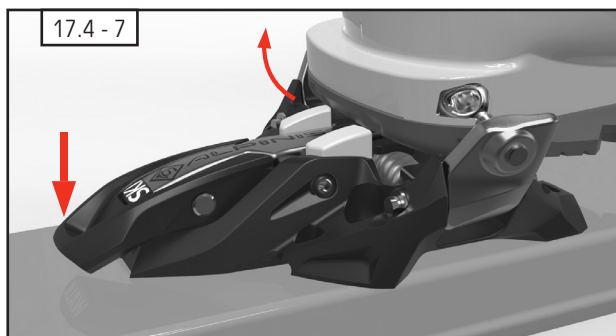


- Ensure that the heel holder is turned to the travel position, the locking bolts in the heel holder face forward and the hiking aid is pressed backwards. (17.4 - 5)

17.4 MARKER ALPINIST & ALPINIST LONG TRAVEL - INFORMATION FOR THE SKIER

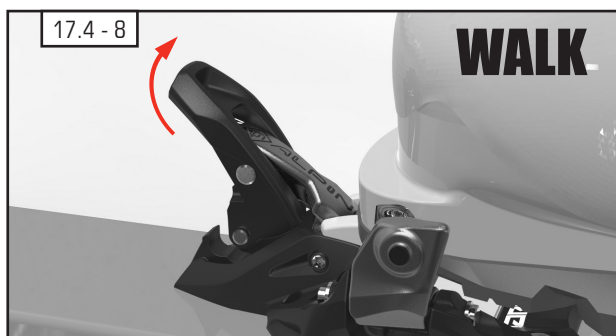


- Close the binding by stepping the heel of the boot straight down into the U-BOW (Spring) engaging the U-BOW (Spring) with the tech insert. (17.4 - 6)



STEP OUT (INCLUDING AFTER A FALL IN AN EMERGENCY)

- Press down the opening lever on the toe with a ski pole, ski, ski boot or by hand.
- Lift the tip of the ski boot slightly and rotate the boot sideways out of the binding. (17.4 - 7)

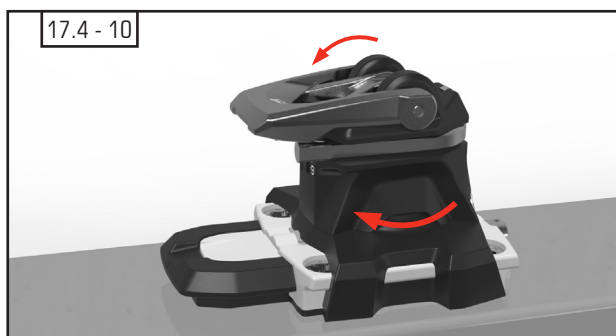


CHANGE OVER FROM SKIING TO HIKING POSITION:

- There is an adjusting lever at the front end of the toe that can be used to choose between the positions for skiing (SKI) and hiking (WALK). To switch from the skiing position to hiking mode in order to walk with the binding, pull this lever upwards. (17.4 - 8)



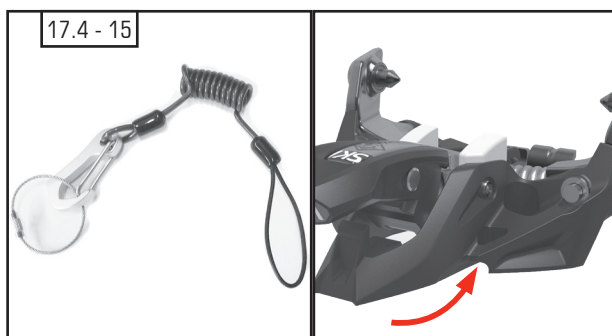
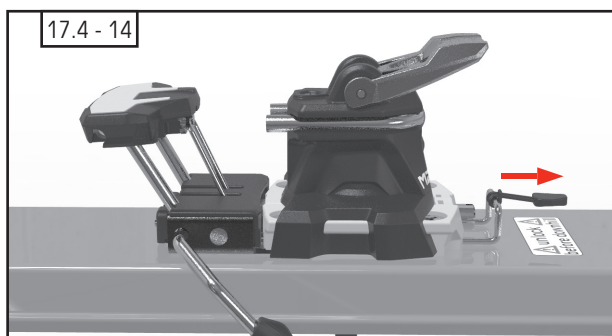
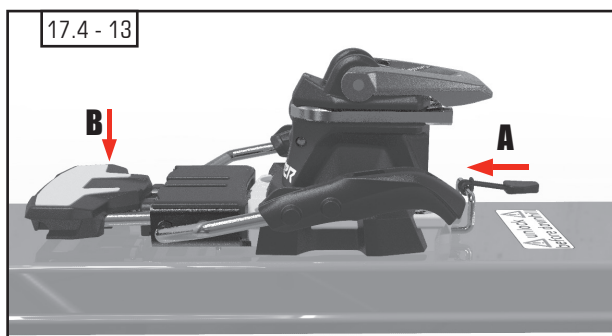
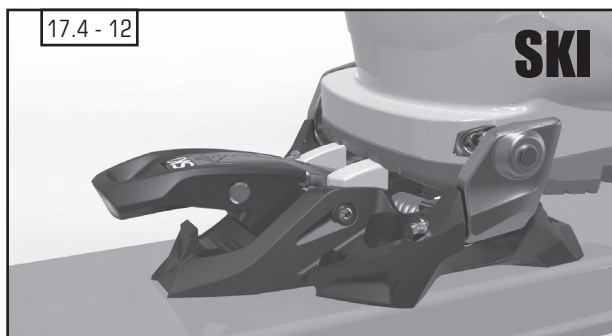
- Turn the heel by 180° so that the locking bolts in the heel face towards the tail of the ski. (17.4 - 9)



USING THE HIKING AID

- In hiking mode, you can use two hiking aids with different angles. Lower hiking aid position: to use this position: Turn the heel holder by 180 ° (locking bolts face forward) and turn the hiking aid over forwards (17.4 - 10).

17.4 MARKER ALPINIST & ALPINIST LONG TRAVEL - INFORMATION FOR THE SKIER



- Upper hiking aid position: to use this position: Turn the heel holder by 180° (locking bolts face backward) and push the hiking aid forward. (17.4 - 11)

CHANGE OVER FROM HIKING TO SKIING POSITION

- For downhill skiing, always make sure that the adjusting lever (at the front end of the toe) is in the flat skiing position. In order to ensure the release function, the binding should always be in downhill mode (SKI) on descents (17.4 - 12) ! Ensure that the heel holder is turned to the travel position, the locking bolts in the heel holder face forward and the hiking aid is folded backwards. (see: 17.4 - 5)

SKI BRAKE:

- MARKER offers ski brakes with different widths for the binding models MARKER ALPINIST. These ski brakes should be retrofitted by the specialist dealer. The MARKER ALPINIST LONG TRAVEL models are fitted with brakes as standard.
- Changing the brake over from descent to ascent position: Slide the brake lever forward until you feel it lock in place. The brake is engaged by hand by pushing the brake pedal down or by stepping down on the pedal when stepping in. (17.4 - 13)
- Changing the brake over from ascent to descent position: To disengage the brake, push the brake lever backward until you feel it lock in place. (17.4 - 14)

NOTE:

The brake must always be disengaged on descents in order for it to function correctly. It is recommended that you remove the skins from the ski only after disengaging the brake.



IMPORTANT SAFETY ADVICE !

The MARKER ALPINIST / ALPINIST LONG TRAVEL must be equipped with ski brake and / or safety leash !

In case of disregard the ski can speed downhill after a release and become a hazard for other persons.

REMARK:

MARKER offers a special PINTECH safety leash. (17.4 - 15)
Art. #: L002S1A

ATTACHING THE SAFETY LEASH:

- Pass the leash through one of the holes at the front of the toe and secure the leash with a cow-hitch. (17.4 - 15)

17.4 MARKER ALPINIST & ALPINIST LONG TRAVEL - INFORMATION FOR THE SKIER

SKIER INSTRUCTION

STEP - IN:

- Clear snow, ice and dirt from the sole of the ski boot and the Pin-Tech inserts before stepping into the binding.
- If the toe is closed, open it by pressing down the toe opening lever.
- Position the tip of the ski boot on the toe's step-in aids and between the Pin-Tech retaining pins on the toe.
- Then press the tip of the boot down and step into the toe until the pins are locked fully into position in the insert.
- Move the locked boot back and forth several times to ensure that boot and binding are securely connected.
- Close the binding by stepping the heel of the boot straight down into the U-BOW (Spring) engaging the U-BOW (Spring) with the tech insert.

STEP - OUT:

- Press down the opening lever on the toe with a ski pole, ski, ski boot or by hand.
- Lift the tip of the ski boot slightly and rotate the boot sideways out of the binding.

OPENING THE BINDING AFTER A FALL OR ACCIDENT:

- Press down the opening lever with a ski pole or by hand.

SYSTEM EXPLANATION FOR THE SKIER:

- Explain the boot - to - binding adjustment.
- Explain that **MARKER ALPINIST** ski bindings do not meet any ISO certification and therefore the release function does not need to be tested to verify function release.
- Show where the release adjustment screw is located and explain the visual indicators on the binding and how they do not directly correlate to the initial indicator values on the adjustment chart, but serve as a good starting point for binding setup. Explain the U-BOW (Spring) is a fixed vertical release force and can be changed to achieve the skiers preferred vertical release. Advise the skier as to the correct U-BOW (Spring) per their release/retention preference.
- The initial indicator values should be used as a starting point for the binding setting process and may need to be modified in order for the skier to achieve correct retention preference.
- Point out the left and the right ski indicators.
- If any system components are worn out of standard or otherwise unsuitable for continued use, the skier must be clearly informed of the problem and warned that continued use may significantly increase his or her risk of injury.
- Advise that if any problem develops with any part of the function unit ski / ski binding / ski boot it should be brought to a MARKER authorized retailer for inspection and service.

RECEIPT OF IN - BOX INSTRUCTIONS:

- Whenever a new ski binding is delivered to the skier she or he should receive the in - box instructions and the warranty information.
- The enclosed info booklet must be handed over to the customer.

MAINTENANCE:

- Explain to the skier that the ski binding should be kept clean and free of dirt, rust, salt or other contaminants.
- Recommend that the complete function unit ski / ski binding / ski boot has to be brought to a MARKER authorized retailer for inspection prior to the beginning of each ski season.

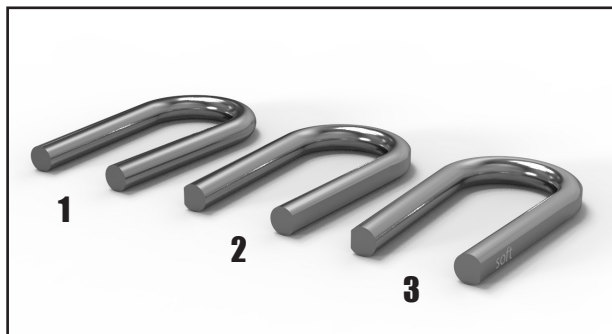
SKIER SIGNATURE

- The skier must read, understand and agree to the conditions specified in the workshop form and MARKER alpine touring release agreement.
- Make sure that the skier signs the workshop form and the MARKER alpine touring release agreement. If the skier is a minor, this document should be signed by a parent or a legal guardian.
- A copy of the signed documents has to be handed to the customer.

IMPORTANT !

The skier should understand that there are inherent and other risks in the sport of skiing. Explain that the ski binding will not release under all circumstances nor is it possible to predict every situation in which it will release and is, therefore, no guarantee of his or her safety.

17.5 MARKER ALPINIST / ALPINIST LONG TRAVEL - ACCESSORIES



For the customization of the binding models ALPINIST & ALPINIST LONG TRAVEL MARKER offers locking bolts (U - bows) in 3 different settings:

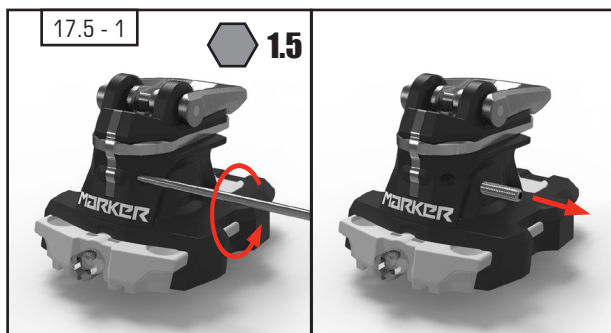
- | | | | |
|-----|----------|---|------------|
| (1) | A001S1UH | MARKER ALPINIST U BOW - (Spring) Hi Setting | (Z 8 - 12) |
| (2) | A001S1UM | MARKER ALPINIST U BOW - (spring) Medium Setting | (Z 5 - 9) |
| (3) | A001S1US | MARKER ALPINIST U BOW - (Spring) Low Setting | (Z 4 - 6) |

U BOW - (Spring) Hi Setting: premounted on ALPINIST 12

U BOW - (Spring) Medium Setting: premounted on ALPINIST 9

U BOW - (Spring) Low Setting: accessory

REPLACEMENT OF THE LOCKING BOLT U-BOW (SPRING):



- Loosen and remove the lock screw, this requires an # 1.5 Allen key. (17.5 - 1)

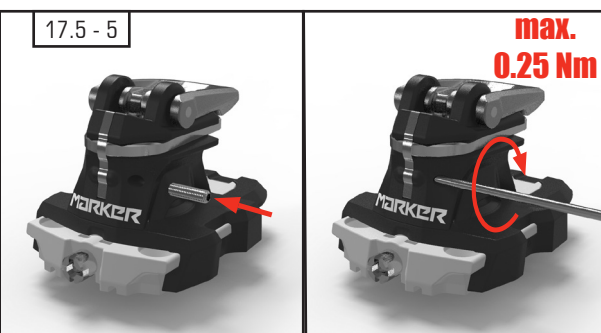


- Remove the locking element. (17.5 - 2)



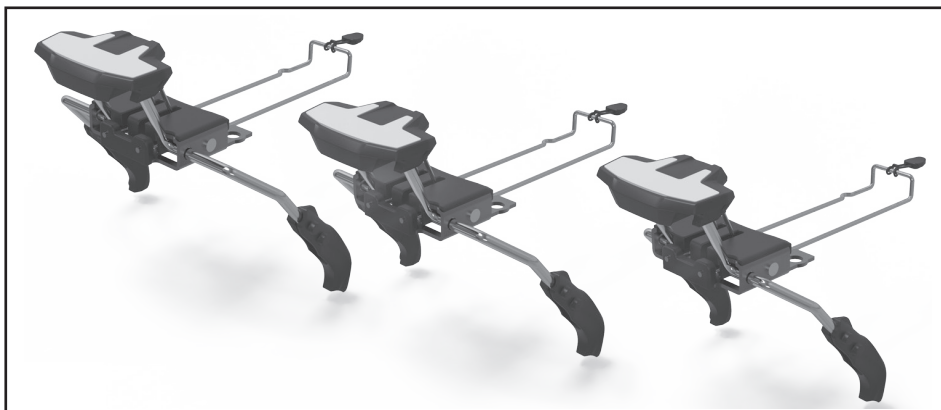
- Pull the locking bolt backwards from the heel housing, slide the replacement bow (Spring) onto the housing. (17.5 - 3)

- Attach the locking element to the heel, the locking element has to be flush with the heel housing. (17.5 - 4)



- Insert and tighten the lock screw. Do not exceed a tightening torque of 0.25 Nm. (17.5 - 5)

17.6 MARKER ALPINIST - BRAKES



17.6 - 1



SKI BRAKES:

- MARKER offers ski brakes with different widths for the binding models MARKER ALPINIST. The MARKER ALPINIST LONG TRAVEL models are fitted with brakes as standard.

W001S1B MARKER ALPINIST brake; 90 mm
 W002S1B MARKER ALPINIST brake; 105 mm
 W003S1B MARKER ALPINIST brake; 115 mm

- For mounting the ski brakes the heel platform has to be removed. (17.6 - 1)

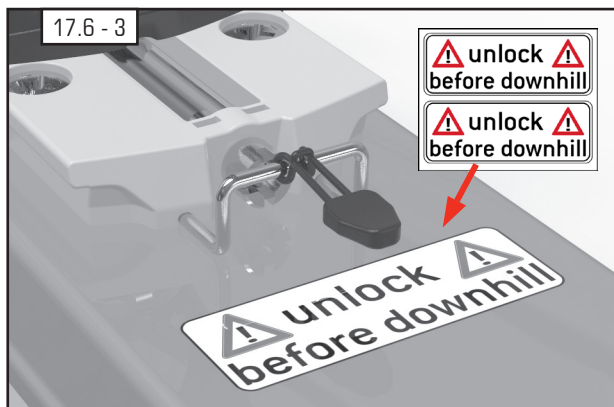
17.6 - 2



- Mount the heel from top to the brake. (17.6 - 2)

- The further installation of the binding has to be carried out as described in chapter → 17.2.

17.6 - 3



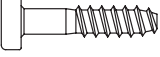
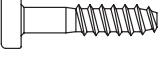
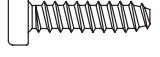
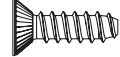
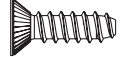
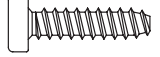
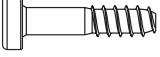
NOTE:

When mounting the binding make sure that you fit the enclosed stickers to the ski. (17.6 - 3)

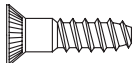
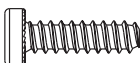
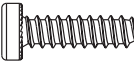
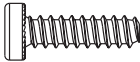
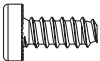
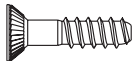
NOTE:

Locking / unlocking of the brake and security advices:
 see page → 17.4 "Information for the skier"

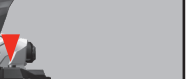
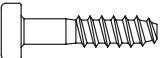
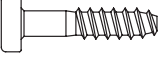
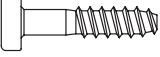
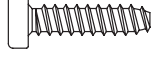
18.1 SCREW CHART

					
MARKER					
XCOMP 18 XCOMP 16 / 16 GW XCOMP 12 / 12 GW		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180061 (5.5 x 13.5)	 S180159 (5.5 x 24.0)
RACE 10 TCX		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180061 (5.5 x 13.5)	 S180159 (5.5 x 24.0)
RACE 10 RACE JUNIOR 8		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180060 (5.5 x 14.0)	 S180138 (5.5 x 21.5)
DUKE PT 16 DUKE PT 12		 S180105 (5.5 x 16.0)	 S180150 (5.5 x 22.0)	 S180060 (5.5 x 14.0)	
BARON EPF F 12 TOUR EPF F 10 TOUR	 S180217 (5.5 x 12.0)	 S180217 (5.5 x 12.0)		 S180217 (5.5 x 12.0)	
JESTER 18 PRO ID JESTER 16 ID GRIFFON 13 ID SQUIRE 11 ID		 S180164 (5.5 x 11.3)	 S180060 (5.5 x 14.0)	 S180204 (6.0 x 12.0)	
KINGPIN 13 KINGPIN 10 KINGPIN MWERKS	 S180217 (5.5 x 12.0)	 S180176 (5.5 x 15.0)	 S180176 (5.5 x 15.0)	 S180150 (5.5 x 22.0)	 S180217 (5.5 x 12.0)
KINGPIN 10 DEMO KINGPIN 13 DEMO	 S180205 (5.5 x 18.5)	 S180217	 S180046	 S180231 (5.5 x 29.0)	 S180205 (5.5 x 18.5)
MARKER ALPINIST ALPINIST LONG TRAVEL		 S180176 (5.5 x 15.0)	 S180176 (5.5 x 15.0)	 S180074 (5.5 x 17.5)	 S180074 (5.5 x 17.5)
12.0 TPX 11.0 TP		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180061 (5.5 x 13.5)	 S180138 (5.5 x 21.5)
10.0 TP		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180241 (5.5 x 19.25)	 S180142 (5.5 x 23.5)

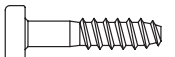
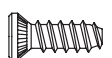
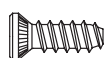
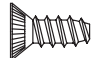
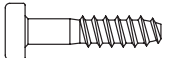
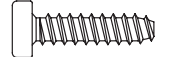
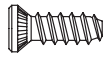
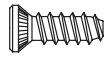
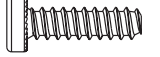
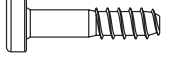
18.1 SCREW CHART

					
FREE 7 7.0 4.5		 S180060 (5.5 x 14.0)	 S180060 (5.5 x 14.0)	 S180104 (5.5 x 22.5)	 S180241 (5.5 x 19.25)
GRIFFON TCX D SQUIRE TCX D		 S180061 (5.5 x 13.5)		 S180061 (5.5 x 13.5)	
GRIFFON D		 S180105 (5.5 x 16.0)		 S180105 (5.5 x 16.0)	
FDT 12.0 TPX FDT 10 TP FDT 10 TLT				 S180062 (5.5 x 12.5)	
JUNIOR RTL		 S180060 (5.5 x 14.0)	 S180060 (5.5 x 14.0)	 S180241 (5.5 x 19.25)	 S180241 (5.5 x 19.25)
FDT PLATE		 S180061 (5.5 x 13.5)		 S180061 (5.5 x 13.5)	
FDT HIGH PERFORMANCE PLATE		 S180105 (5.5 x 16.0)		 S180105 (5.5 x 16.0)	
MARKER / VÖLKL					
WIDERIDE XL TCX DEMO	 S180208			 S180150 (5.5 x 22.0)	
LOWRIDE FR				 S180062 (5.5 x 12.5)	
rMOTION2 VMOTION				 S180062 (5.5 x 12.5)	
MARKER / K 2					

18.1 SCREW CHART

					
MCXELL TCX QUIKCLIK MCX TCX light QUIKCLIK				 S180062 (5.5 x 12.5)	
M3 TCX light QUIKCLIK ERC TCX light QUIKCLIK				 S180062 (5.5 x 12.5)	
M3 & ER3 QUIKCLIK M2 & ERP QUIKCLIK				 S180062 (5.5 x 12.5)	
M2 & ERP			 S180176 (5.5 x 15.0)	 S180062 (5.5 x 12.5)	
MARKER / NORDICA					
RACE XCELL 14		 S180165 (5.5 x 10.0)	 S180128 (5.5 x 16.5)	 S180061 (5.5 x 13.5)	 S180159 (5.5 x 24.0)
XCELL FDT TPX FDT				 S180062 (5.5 x 12.5)	
TP2 LIGHT FDT TP2 COMPACT FDT TLT FDT FREE 11 FDT				 S180062 (5.5 x 12.5)	
XCOMP 24 XCOMP 18 XCOMP 16 XCOMP 12		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180061 (5.5 x 13.5)	 S180159 (5.5 x 24.0)
RACE 10 TCX		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180061 (5.5 x 13.5)	 S180159 (5.5 x 24.0)
RACE 10 RACE JUNIOR 8		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180060 (5.5 x 14.0)	 S180138 (5.5 x 21.5)
MARKER / NORDICA					

18.1 SCREW CHART

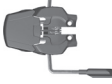
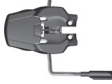
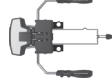
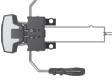
					
TLT COMPACT			 S180176 (5.5 x 15.0)	 S180062 (5.5 x 12.5)	
MARKER / BLIZZARD					
XCELL DEMO TCX DEMO TLX DEMO				 S180062 (5.5 x 12.5)	
TPX DEMO TP DEMO TLT DEMO				 S180062 (5.5 x 12.5)	
XCOMP 24 XCOMP 18 XCOMP 16 XCOMP 12		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180061 (5.5 x 13.5)	 S180159 (5.5 x 24.0)
RACE 10 TCX		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180061 (5.5 x 13.5)	 S180159 (5.5 x 24.0)
RACE 10 RACE JUNIOR 8		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180060 (5.5 x 14.0)	 S180138 (5.5 x 21.5)
MARKER / MOVEMENT					
MARKER / MOVEMENT FREESKI TP		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180241 (5.5 x 19.25)	 S180142 (5.5 x 23.5)
MARKER / MOVEMENT FDT TP				 S180062 (5.5 x 12.5)	
MARKER / BOGNER & INDIGO					
MARKER / BOGNER / INDIGO RACE XCELL DEMO				 S180062 (5.5 x 12.5)	

18.1 SCREW CHART

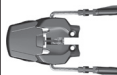
					
MARKER / BOGNER / INDIGO FDT TP				 S180062 (5.5 x 12.5)	
STANDARD BRAKE				 S180062 (5.5 x 12.5)	
BRAKE COMPETITON & RACE 12.0 TPX & 11.0 TP				 S180046 (5.5 x 8.75)	
BRAKE FDT JUNIOR				 S180219 (5.5 x 10.8)	



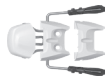
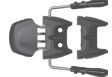
18.2 BRAKE CHART

	70 mm	80 mm	85 mm	90 mm	100 mm	110 mm	120 mm	136 mm
XCOMP 18			 W00601B					
XCOMP 16 XCOMP 12 RACE 10 TCX			 W00601B					
RACE 10 RACE JUNIOR 8			 W023H1B					
DUKE PT					 W028U1B		 W029U1B (125)	
BARON EPF					 W027T1B	 W016G1B	 W02601B	 W01501B
JESTER PRO ID JESTER ID GRIFFON ID SQUIRE ID				 W017G1B	 W027T1B	 W016G1B	 W02601B	 W01501B
SQUIRE ID WHITE				 W01901B		 W012Q1B		
F 12 TOUR EPF				 W017G1B	 W027T1B	 W016G1B	 W02601B	 W01501B
F 10 TOUR			 W024K1B	 W017G1B	 W027T1B	 W016G1B		
KINGPIN 13 KINGPIN 10 KINGPIN 13 DEMO KINGPIN 10 DEMO					 W010S1B		 W011S1B (125)	
ALPINIST				 W001S1B (90)	 W002S1B (105)	 W003S1B (115)		
ALPINIST LONG TRAVEL				 W004S1B (90)	 W005S1B (105)			

18.2 BRAKE CHART

	70 mm	80 mm	85 mm	90 mm	100 mm	110 mm	120 mm	136 mm
12.0 TPX 11.0 TP			 W023H1B	 W009F1B		 W005F1B		
FREE 7				 W030U1B (95)				
7.0 & FDT 7.0 4.5 & FDT 4.5	 W007R1B		 W009R1B					
GRIFFON D GRIFFON TCX D SQUIRE TCX D				 W017G1B	 W027T1B	 W016G1B	 W02601B	 W01501B
FDT TCX 12			 W018M1B	 W017G1B	 W027T1B	 W016G1B		
FDT TP 10 FDT TLT 10		 W022N1B						
JUNIOR RTL	 W014S1B		 W005L1B					
MARKER / VÖLKL IPT WIDERIDE XL TCX D				 W017G1B				
MARKER / VÖLKL rMOTION2 16.0 rMOTION2 12.0			 W018M1B					
MARKER / VÖLKL VMOTION 12 (TCX) VMOTION 11 (TCX)				 W017G1B				
MARKER / VÖLKL VMOTION 11 VMOTION 10 VMOTION 9		 W022N1B						
7.0 VMOTION 4.5 VMOTION	 W007R1B							

18.2 BRAKE CHART

	70 mm	80 mm	85 mm	90 mm	100 mm	110 mm	120 mm	136 mm
7.0 VMOTION white 4.5 VMOTION white W008R1B								
MARKER / K 2 MXCELL TCx QUIKCLIK MXC TCx light QUIKCLIK								
MARKER / K 2 M 3 TCX LIGHT QUIKCLIK ERC 11 TCx light QUIKCLIK								
MARKER / K 2 M3 COMPACT QUIKCLIK ER3 COMPACT QUIKCLIK								
MARKER / K 2 M 2 QUIKCLIK ERP QUIKCLIK M 2 / ERP								
MARKER / K 2 FREE TEN QUIKCLIK								
MARKER / K 2 FDT 7.0 FDT 4.5 W007R1B								
MARKER / NORDICA XCELL FDT TPX FDT								
MARKER / NORDICA FREE FDT TP LIGHT FDT								
MARKER / NORDICA TP COMPACT FDT TLT FDT TLT COMPACT								
MARKER / BLIZZARD XCELL DEMO TCX 11 DEMO								
MARKER / BLIZZARD TPX 12 DEMO TLX 11 DEMO								

18.2 BRAKE CHART

	70 mm	80 mm	85 mm	90 mm	100 mm	110 mm	120 mm	136 mm
MARKER / BLIZZARD TPC 10 DEMO TLT 10 DEMO		 W022N1B	 W024K1B					
MARKER / BLIZZARD TLT 10 DEMO		 W02501B						
MARKER / MOVEMENT FDT TPX / TP2				 W017G1B				
MARKER / MOVEMENT FREESKI TP			 W021K1B		 W004L1B			
MARKER / BOGNER / INDIGO XCELL 12 DEMO			 W018M1B					
MARKER / BOGNER / INDIGO FDT TP		 W02501B						

18.3 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS 20 / 21

BINDING				BOOT	Alpine 5355 Adult Type "A"	Touring 9523 Adult	Gripwalk Adult	Alpine 5355 Junior Type "C"	Gripwalk Junior
MARKER Collection 2020 / 2021									
7120U1MX	XComp 18	8.0 - 18.0	black - flo-red	✓					
6920U1MS	XComp 16	6.0 - 16.0	black - flo-red	✓			✓		
6820U1MS	XComp 12	4.0 - 12.0	black - flo-red	✓			✓		
6520U1MT	Race 10 TCX	3.0 - 10.0	black - flo-red	✓					
6520U1MS	Race 10	3.0 - 10.0	black - flo-red	✓					
6320U1MS	Race Junior 8	2.0 - 8.0	black - flo-red					✓	
7650U1EB	Duke PT 16; 125 mm	6.0 - 16.0	black - gunmetal	✓	✓	✓	✓		
7650U1ES	Duke PT 16; 100 mm	6.0 - 16.0	black - gunmetal	✓	✓	✓	✓		
7550U1EB	Duke PT 12; 125 mm	4.0 - 12.0	black - red	✓	✓	✓	✓		
7550U1ES	Duke PT 12; 100 mm	4.0 - 12.0	black - red	✓	✓	✓	✓		
7516U1LS	Baron EPF 13 L 305 - 365; 100 mm	4.0 - 13.0	black	✓	✓	✓	✓		
7516U1SS	Baron EPF 13 S 265 - 325; 100 mm	4.0 - 13.0	black	✓	✓	✓	✓		
7516U1LA	Baron EPF 13 L 305 - 365; 110 mm	4.0 - 13.0	black	✓	✓	✓	✓		
7516U1SA	Baron EPF 13 S 265 - 325; 110 mm	4.0 - 13.0	black	✓	✓	✓	✓		
7924U1JS	Jester 18 Pro ID; 90 mm	8.0 - 18.0	teal - flo-yellow	✓	✓	✓	✓		
7924U1JV	Jester 18 Pro ID; 110 mm	8.0 - 18.0	teal - flo-yellow	✓	✓	✓	✓		
7924U1JB	Jester 18 Pro ID; 120 mm	8.0 - 18.0	teal - flo-yellow	✓	✓	✓	✓		
7624U1JA	Jester 16 ID; 90 mm	6.0 - 16.0	black - gray	✓	✓	✓	✓		
7624U1JB	Jester 16 ID; 100 mm	6.0 - 16.0	black - gray	✓	✓	✓	✓		
7624U1JC	Jester 16 ID; 110 mm	6.0 - 16.0	black - gray	✓	✓	✓	✓		
7624U1JD	Jester 16 ID; 120 mm	6.0 - 16.0	black - gray	✓	✓	✓	✓		
7524U1GA	Griffon 13 ID; 90 mm	4.0 - 13.0	black	✓	✓	✓	✓		
7524U1GB	Griffon 13 ID; 100 mm	4.0 - 13.0	black	✓	✓	✓	✓		
7524U1GC	Griffon 13 ID; 110 mm	4.0 - 13.0	black	✓	✓	✓	✓		
7524U1GD	Griffon 13 ID; 120 mm	4.0 - 13.0	black	✓	✓	✓	✓		
7524U1GE	Griffon 13 ID; 90 mm	4.0 - 13.0	white	✓	✓	✓	✓		
7524U1GF	Griffon 13 ID; 100 mm	4.0 - 13.0	white	✓	✓	✓	✓		
7524U1GP	Griffon 13 ID; 110 mm	4.0 - 13.0	white	✓	✓	✓	✓		
7524U1GR	Griffon 13 ID; 120 mm	4.0 - 13.0	white	✓	✓	✓	✓		
7524U1GG	Griffon 13 ID; 90 mm	4.0 - 13.0	anthracite - black - red	✓	✓	✓	✓		
7524U1GH	Griffon 13 ID; 100 mm	4.0 - 13.0	anthracite - black - red	✓	✓	✓	✓		
7524U1GJ	Griffon 13 ID; 110 mm	4.0 - 13.0	anthracite - black - red	✓	✓	✓	✓		
7524U1GK	Griffon 13 ID; 90 mm	4.0 - 13.0	teal - flo-yellow	✓	✓	✓	✓		
7524U1GL	Griffon 13 ID; 100 mm	4.0 - 13.0	teal - flo-yellow	✓	✓	✓	✓		
7524U1GM	Griffon 13 ID; 110 mm	4.0 - 13.0	teal - flo-yellow	✓	✓	✓	✓		
7524U1GN	Griffon 13 ID; 120 mm	4.0 - 13.0	teal - flo-yellow	✓	✓	✓	✓		
7424S1MA	Squire 11 ID; 90 mm	3.0 - 11.0	white	✓	✓	✓	✓		
7424T1MG	Squire 11 ID; 100 mm	3.0 - 11.0	white	✓	✓	✓	✓		
7424T1MC	Squire 11 ID; 90 mm	3.0 - 11.0	teal - black	✓	✓	✓	✓		
7424T1MD	Squire 11 ID; 110 mm	3.0 - 11.0	teal - black	✓	✓	✓	✓		

18.3 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS 20 / 21

BINDING				BOOT		Alpine 5355 Adult Type "A"	Touring 9523 Adult	Gripwalk Adult	Alpine 5355 Junior Type "C"	Gripwalk Junior
7424S1ME	Squire 11 ID; 90 mm	3.0 - 11.0	black	✓	✓	✓				
7424T1MH	Squire 11 ID; 100 mm	3.0 - 11.0	black	✓	✓	✓				
7424S1MF	Squire 11 ID; 110 mm	3.0 - 11.0	black	✓	✓	✓				
7816U1SS	F12 TOUR EPF; S 265 - 325; 100 mm	4.0 - 12.0	black - anthracite	✓	✓	✓				
7816U1LS	F12 TOUR EPF; L 305 - 365; 100 mm	4.0 - 12.0	black - anthracite	✓	✓	✓				
7816R1SE	F12 TOUR EPF; S 265 - 325; 110 mm	4.0 - 12.0	black - anthracite	✓	✓	✓				
7816R1LE	F12 TOUR EPF; L 305 - 365; 110 mm	4.0 - 12.0	black - anthracite	✓	✓	✓				
7716S1TC	F10 TOUR; S 265 - 325; 90 mm	3.0 - 10.0	black - white	✓	✓	✓				
7716S1TD	F10 TOUR; L 305 - 365; 90 mm	3.0 - 10.0	black - white	✓	✓	✓				
7716U1TS	F10 TOUR; S 265 - 325; 100 mm	3.0 - 10.0	black - white	✓	✓	✓				
7716U1TL	F10 TOUR; L 305 - 365; 100 mm	3.0 - 10.0	black - white	✓	✓	✓				
6920U1MB	XComp 16 GW black	6.0 - 16.0	black	✓		✓				
6820U1MB	XComp 12 GW black	4.0 - 12.0	black	✓		✓				
6224U1MS	Free 7; 95 mm	2.0 - 7.0	black	✓		✓	✓	✓	✓	✓
6224U1MW	Free 7; 95 mm	2.0 - 7.0	white - silver	✓		✓	✓	✓	✓	✓
6820T1MA	12.0 TPX; 90 mm	4.0 - 12.0	black - anthracite	✓		✓				
6720T1MA	11.0 TP; 90 mm	3.0 - 11.0	black - anthracite	✓		✓				
6720S1MB	11.0 TP; 90 mm	3.0 - 11.0	white	✓		✓				
6720T1MC	11.0 TP; 110 mm	3.0 - 11.0	black - anthracite	✓		✓				
6720S1MD	11.0 TP; 110 mm	3.0 - 11.0	white	✓		✓				
6520T1MA	10.0 TP; 85 mm	3.0 - 10.0	black - anthracite	✓		✓				
6220T1MA	7.0; 70 mm	2.0 - 7.0	black - anthracite	✓		✓	✓	✓	✓	✓
6220T1MB	7.0; 70 mm	2.0 - 7.0	white	✓		✓	✓	✓	✓	✓
6220U1MC	7.0; 85 mm	2.0 - 7.0	black - anthracite	✓		✓	✓	✓	✓	✓
6120T1MA	4.5; 70 mm	0.75 - 4.5	black - anthracite	✓		✓	✓	✓	✓	✓
6120T1MB	4.5; 70 mm	0.75 - 4.5	white	✓		✓	✓	✓	✓	✓
6120T1MC	4.5; 85 mm	0.75 - 4.5	black - anthracite	✓		✓	✓	✓	✓	✓
6862U1MC	FDT TPX 12; 90 mm	4.0 - 12.0	black - anthracite	✓		✓				
6862U1MCS	FDT TPX 12 System; 90 mm	4.0 - 12.0	black - anthracite	✓		✓				
6562U1MC	FDT TP 10; 80 mm	3.0 - 10.0	black - anthracite	✓		✓				
6562U1MCS	FDT TP 10 System; 80 mm	3.0 - 10.0	black - anthracite	✓		✓				
6562U1MT	FDT TLT 10; 80 mm	3.0 - 10.0	black - anthracite	✓		✓				
6263T1MA	FDT 7.0 System; L 235 - 330; 70 mm	2.0 - 7.0	black - anthracite	✓		✓	✓	✓	✓	✓
6163T1MA	FDT 4.5 System; S 190 - 285; 70 mm	0.75 - 4.5	black - anthracite	✓		✓	✓	✓	✓	✓
6263T1MC	FDT 7.0 System; L 235 - 330; 85 mm	2.0 - 7.0	black - anthracite	✓		✓	✓	✓	✓	✓
6163T1MC	FDT 4.5 System; S 190 - 285; 85 mm	0.75 - 4.5	black - anthracite	✓		✓	✓	✓	✓	✓
6220T1MR	7.0 RTL; 70 mm	2.0 - 7.0	black - anthracite	✓		✓	✓	✓	✓	✓
6120T1MR	4.5 RTL; 70 mm	0.75 - 4.5	black - anthracite	✓		✓	✓	✓	✓	✓
7520U1GA	Griffon 13 D; 90 mm	4.0 - 13.0	black	✓		✓				
7520U1GB	Griffon 13 D; 110 mm	4.0 - 13.0	black	✓		✓				
7520U1GD	Griffon 13 D; 100 mm	4.0 - 13.0	black	✓		✓				

18.3 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS 20 / 21

BINDING				BOOT		Alpine 5355 Adult Type "A"	Touring 9523 Adult	Gripwalk Adult	Alpine 5355 Junior Type "C"	Gripwalk Junior
6862U1GA	Griffon 13 TCX D; 90 mm	4.0 - 13.0	black	✓		✓		✓		
6862U1GB	Griffon 13 TCX D; 110 mm	4.0 - 13.0	black	✓		✓		✓		
6862U1GD	Griffon 13 TCX D; 100 mm	4.0 - 13.0	black	✓		✓		✓		
6762S1MA	Squire 11 TCX D; 90 mm	3.0 - 11.0	black	✓		✓		✓		
6762S1MH	Squire 11 TCX D; 100 mm	3.0 - 11.0	black	✓		✓		✓		
7560U1GB	Griffon 13 D; 110 mm (w/o plate)	4.0 - 13.0	black	✓		✓		✓		
6760T1MA	Squire 11 TCX D; 90 mm (w/o plate)	3.0 - 11.0	black	✓		✓		✓		
7624U1JL	Jester 16 ID Limited Edition; 100 mm	6.0 - 16.0	black - white - gold	✓	✓	✓		✓		
7424U1UJ	Squire 11 ID; 90 mm	3.0 - 11.0	gray - white	✓	✓	✓		✓		
7424U1UK	Squire 11 ID; 100 mm	3.0 - 11.0	gray - white	✓	✓	✓		✓		
6563U1US	FDT TP 10 white; System; 85 mm	3.0 - 10.0	white - anthracite	✓		✓		✓		
6563U1UL	FDT TP 10 white; System; 100 mm	3.0 - 10.0	white - anthracite	✓		✓		✓		
6862U1MWS	FDT TPX 12 System; 110 mm	4.0 - 12.0	black - anthracite	✓		✓		✓		
MARKER / VÖLKL Collection 2020 / 2021										
7535U1VP	Lowride XL 13 FR Demo GW	4.0 - 13.0	black - teal	✓		✓		✓		
7535U1VF	Lowride XL 13 FR Demo GW	4.0 - 13.0	black - flo-red	✓		✓		✓		
7535U1VV	Lowride XL 13 FR VWorks Demo GW	4.0 - 13.0	black	✓		✓		✓		
6835U1VG	iPT WR XL 12 TCX GW	4.0 - 12.0	black - green	✓		✓		✓		
6735U1VL	iPT WR XL 11 TCX GW Lady	3.0 - 11.0	black - violet	✓		✓		✓		
6977R1VR	rMotion2 16 GW black red	6.0 - 16.0	black - flo-red	✓		✓		✓		
6877T1VR	rMotion2 12 GW black red	4.0 - 12.0	black - flo-red	✓		✓		✓		
6877T1VB	rMotion2 12 GW black	4.0 - 12.0	black	✓		✓		✓		
6862U1VA	VMotion 12 GW	4.0 - 12.0	black	✓		✓		✓		
6862U1VB	VMotion 12 GW Red	4.0 - 12.0	black - red	✓		✓		✓		
6862U1VC	VMotion 12 GW Yellow	4.0 - 12.0	black - yellow	✓		✓		✓		
6862U1VD	VMotion 12 alu GW	4.0 - 12.0	black	✓		✓		✓		
6762T1VP	VMotion 11 alu GW Lady gold	3.0 - 11.0	black - gold	✓		✓		✓		
6762U1VS	VMotion 11 alu GW Lady silver	3.0 - 11.0	black - silver	✓		✓		✓		
6662U1VA	VMotion 11 GW	3.0 - 11.0	black	✓		✓		✓		
6562U1VA	VMotion 10 GW	3.0 - 10.0	black	✓		✓		✓		
6562U1VL	VMotion 10 GW Lady black	3.0 - 10.0	black	✓		✓		✓		
6562T1VC	VMotion 10 GW Lady gold	3.0 - 10.0	black - gold	✓		✓		✓		
6462U1VL	VMotion 9 GW Lady	2.5 - 9.0	black	✓		✓		✓		
6262T1VA	7.0 VMotion Jr. R	2.0 - 7.0	black - anthracite	✓		✓		✓	✓	✓
6262T1VB	7.0 VMotion Jr. R Lady	2.0 - 7.0	white	✓		✓		✓	✓	✓
6162T1VA	4.5 VMotion Jr.	0.75 - 4.5	black - anthracite	✓		✓		✓	✓	✓
6162T1VB	4.5 VMotion Jr. Lady	0.75 - 4.5	white	✓		✓		✓	✓	✓
MARKER / K 2 Collection 2020 / 2021										
6865U1KA	MXCELL 12 TCx Quikclik	4.0 - 12.0	black - anthracite	✓		✓		✓		
6862U1KY	MXC 12 TCx light Quikclik	4.0 - 12.0	black - yellow	✓		✓		✓		

18.3 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS 20 / 21

BINDING				BOOT	Alpine 5355 Adult Type "A"	Touring 9523 Adult	Gripwalk Adult	Alpine 5355 Junior Type "C"	Gripwalk Junior
6862U1KR	MXC 12 TCx light Quikclik	4.0 - 12.0	black - red		✓		✓		
6762U1KA	ERC 11 TCx light Quikclik	3.0 - 11.0	black - anthracite		✓		✓		
6762U1KY	ERC 11 TCx light Quikclik	3.0 - 11.0	black - yellow		✓		✓		
6762S1KD	M3 11 TCx light Quikclik	3.0 - 11.0	black - anthracite		✓		✓		
6663U1KY	M3 11 Compact Quikclik	3.0 - 11.0	black - yellow		✓		✓		
6663U1KR	M3 11 Compact Quikclik	3.0 - 11.0	black - red		✓		✓		
6563U1KR	M3 10 Compact Quikclik	3.0 - 10.0	black - red		✓		✓		
6563U1KA	M3 10 Compact Quikclik	3.0 - 10.0	black - anthracite		✓		✓		
6562U1KA	M2 10 Quikclik	3.0 - 10.0	black - anthracite		✓		✓		
6562U1KB	M2 10 Quikclik; 85 mm	3.0 - 10.0	black - anthracite		✓		✓		
6562U1KD	ERP 10 Quikclik	3.0 - 10.0	black - anthracite		✓		✓		
6570U1KA	M2 10	3.0 - 10.0	black - anthracite		✓		✓		
6570U1KD	ERP 10	3.0 - 10.0	black - anthracite		✓		✓		
7262R1KA	Free Ten Quikclik	3.0 - 10.0	black - anthracite		✓		✓		
MARKER / BLIZZARD Collection 2020 / 2021									
6965S1BA	XCELL 14 DEMO; 90 mm	5.0 - 14.0	black - anthracite - orange		✓		✓		
6865S1BB	XCELL 12 DEMO; 90 mm	4.0 - 12.0	black - anthracite - orange		✓		✓		
6865T1BS	XCELL 12 DEMO; 90 mm	4.0 - 12.0	black - anthracite		✓		✓		
6864S1BA	TPX 12 DEMO; 85 mm	4.0 - 12.0	black - orange		✓		✓		
6864S1BB	TPX 12 DEMO; 85 mm	4.0 - 12.0	black - anthracite		✓		✓		
6864T1BW	TPX 12 DEMO W; 85 mm	4.0 - 12.0	black - silver		✓		✓		
6864U1BC	TPX 12 DEMO W; 85 mm	4.0 - 12.0	white		✓		✓		
6767T1BA	TCX 11 DEMO; 90 mm	3.0 - 11.0	black - silver		✓		✓		
6767T1BW	TCX 11 DEMO; 100 mm	3.0 - 11.0	black - silver		✓		✓		
6767U1BC	TCX 11 DEMO; 90 mm	3.0 - 11.0	black - silver		✓		✓		
6767U1BD	TCX 11 DEMO; 100 mm	3.0 - 11.0	black - silver		✓		✓		
6862U1GCB	Griffon 13 TCX D; 90 mm	4.0 - 13.0	black		✓		✓		
6762U1MCB	Squire 11 TCX D; 90 mm	3.0 - 11.0	black		✓		✓		
6767T1BX	TLX 11 DEMO W; 85 mm	3.0 - 11.0	black - silver		✓		✓		
6564S1BA	TPC 10 DEMO; 85 mm	3.0 - 10.0	black - anthracite - orange		✓		✓		
6564S1BB	TPC 10 DEMO; 85 mm	3.0 - 10.0	black - anthracite		✓		✓		
6563R1BA	TLT 10 DEMO; 80 mm	3.0 - 10.0	black - anthracite		✓		✓		
6563T1BB	TLT 10 DEMO W; 80 mm	3.0 - 10.0	black - silver		✓		✓		
6563U1BW	TLT 10 DEMO W; 90 mm	3.0 - 10.0	black - silver		✓		✓		
6563T1BC	TLT 10 DEMO W; 80 mm	3.0 - 10.0	white - silver		✓		✓		
MARKER / NORDICA Collection 2020 / 2021									
6920T1ND	RACE XCELL 14 GW	5.0 - 14.0	black - flo-red		✓		✓		
6965S1NA	XCELL 14 FDT	5.0 - 14.0	black - flo-red		✓		✓		
6865S1NB	XCELL 12 FDT	4.0 - 12.0	black - flo-red		✓		✓		
6865S1NC	XCELL 12 FDT	4.0 - 12.0	black - green		✓		✓		

18.3 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS 20 / 21

BINDING				BOOT		Alpine 5355 Adult Type "A"	Touring 9523 Adult	Gripwalk Adult	Alpine 5355 Junior Type "C"	Gripwalk Junior
6864S1NB	TPX 12 FDT	4.0 - 12.0	black - green	✓		✓				
6864T1NG	TPX 12 FDT	4.0 - 12.0	black - gray	✓		✓				
6864T1NA	TPX 12 FDT	4.0 - 12.0	black - flo-red	✓		✓				
6764S1NA	TP2 light 11 FDT	3.0 - 11.0	black - anthracite	✓		✓				
6764T1NC	TP2 light 11 FDT	3.0 - 11.0	white - anthracite	✓		✓				
6564S1NA	TP2 COMPACT 10 FDT	3.0 - 10.0	black - anthracite	✓		✓				
6564U1NC	TP2 COMPACT 10 FDT	3.0 - 10.0	white - anthracite	✓		✓				
6563R1NC	TLT 10 FDT	3.0 - 10.0	white - anthracite	✓		✓				
6563R1NA	TLT 10 FDT	3.0 - 10.0	black - anthracite	✓		✓				
7262R1NA	Free 11 FDT; 90 mm	3.0 - 11.0	black - white	✓		✓				
6570U1NA	TLT 10 Compact	3.0 - 10.0	black	✓		✓				
MARKER / MOVEMENT Collection 2020 / 2021										
6864U1AM	TPX 12 FDT; 90 mm	4.0 - 12.0	black	✓		✓				
6564U1CM	TP2 light 10 FDT; 90 mm	3.0 - 10.0	white	✓		✓				
6620S1AM	Freeride TP 110; 85 mm	3.0 - 11.0	black	✓		✓				
6620S1BM	Freeride TP 110; 100 mm	3.0 - 11.0	black	✓		✓				
6520S1AM	Freeride TP 90; 85 mm	3.0 - 10.0	black	✓		✓				
6520S1CM	Freeride TP 90; 85 mm	3.0 - 10.0	white	✓		✓				
MARKER / BOGNER & INDIGO Collection 2020 / 2021										
6878R1BB	XCELL 12 Demo; Bogner	4.0 - 12.0	black	✓		✓				
6878R1BJ	XCELL 12 Demo; Indigo	4.0 - 12.0	black	✓		✓				
6762U1BB	FDT TPC 11; Bogner	3.0 - 11.0	white	✓		✓				
6762U1BJ	FDT TPC 11; Indigo	3.0 - 11.0	white	✓		✓				

18.4 INSTALLATION TOOLS - MARKER BINDING MODELS 20 / 21

MARKER BINDING MODELS 20 / 21					INSTALLATION TOOL	
7120U1MX	XComp 18	8.0 - 18.0	black - flo-red	240 - 360 mm	W001G1T	
6920U1MS	XComp 16	6.0 - 16.0	black - flo-red	240 - 360 mm	W001G1T	
6820U1MS	XComp 12	4.0 - 12.0	black - flo-red	240 - 360 mm	W001G1T	
6520U1MT	Race 10 TCX	3.0 - 10.0	black - flo-red	240 - 360 mm	W001G1T	
6520U1MS	Race 10	3.0 - 10.0	black - flo-red	240 - 360 mm	W001G1T	
6320U1MS	Race Junior 8	2.0 - 8.0	black - flo-red	240 - 360 mm	W001G1T	
7650U1EB	Duke PT 16; 125 mm	6.0 - 16.0	black - gunmetal	240 - 380 mm	W014U1T	
7650U1ES	Duke PT 16; 100 mm	6.0 - 16.0	black - gunmetal	240 - 380 mm	W014U1T	
7550U1EB	Duke PT 12; 125 mm	4.0 - 12.0	black - red	240 - 380 mm	W014U1T	
7550U1ES	Duke PT 12; 100 mm	4.0 - 12.0	black - red	240 - 380 mm	W014U1T	
7516U1LS	Baron EPF 13 L 305 - 365; 100 mm	4.0 - 13.0	black	305 - 365 mm	W006M1T	
7516U1SS	Baron EPF 13 S 265 - 325; 100 mm	4.0 - 13.0	black	265 - 325 mm	W006M1T	
7516U1LA	Baron EPF 13 L 305 - 365; 110 mm	4.0 - 13.0	black	305 - 365 mm	W006M1T	
7516U1SA	Baron EPF 13 S 265 - 325; 110 mm	4.0 - 13.0	black	265 - 325 mm	W006M1T	
7924U1JS	Jester 18 Pro ID; 90 mm	8.0 - 18.0	teal - flo-yellow	240 - 370 mm	W001G1T	W012J1T
7924U1JV	Jester 18 Pro ID; 110 mm	8.0 - 18.0	teal - flo-yellow	240 - 370 mm	W001G1T	W012J1T
7924U1JB	Jester 18 Pro ID; 120 mm	8.0 - 18.0	teal - flo-yellow	240 - 370 mm	W001G1T	W012J1T
7624U1JA	Jester 16 ID; 90 mm	6.0 - 16.0	black - gray	240 - 370 mm	W001G1T	W012J1T
7624U1JB	Jester 16 ID; 100 mm	6.0 - 16.0	black - gray	240 - 370 mm	W001G1T	W012J1T
7624U1JC	Jester 16 ID; 110 mm	6.0 - 16.0	black - gray	240 - 370 mm	W001G1T	W012J1T
7624U1JD	Jester 16 ID; 120 mm	6.0 - 16.0	black - gray	240 - 370 mm	W001G1T	W012J1T
7524U1GA	Griffon 13 ID; 90 mm	4.0 - 13.0	black	240 - 370 mm	W001G1T	W012J1T
7524U1GB	Griffon 13 ID; 100 mm	4.0 - 13.0	black	240 - 370 mm	W001G1T	W012J1T
7524U1GC	Griffon 13 ID; 110 mm	4.0 - 13.0	black	240 - 370 mm	W001G1T	W012J1T
7524U1GD	Griffon 13 ID; 120 mm	4.0 - 13.0	black	240 - 370 mm	W001G1T	W012J1T
7524U1GE	Griffon 13 ID; 90 mm	4.0 - 13.0	white	240 - 370 mm	W001G1T	W012J1T
7524U1GF	Griffon 13 ID; 100 mm	4.0 - 13.0	white	240 - 370 mm	W001G1T	W012J1T
7524U1GP	Griffon 13 ID; 110 mm	4.0 - 13.0	white	240 - 370 mm	W001G1T	W012J1T
7524U1GR	Griffon 13 ID; 120 mm	4.0 - 13.0	white	240 - 370 mm	W001G1T	W012J1T
7524U1GG	Griffon 13 ID; 90 mm	4.0 - 13.0	anthracite - black - red	240 - 370 mm	W001G1T	W012J1T
7524U1GH	Griffon 13 ID; 100 mm	4.0 - 13.0	anthracite - black - red	240 - 370 mm	W001G1T	W012J1T
7524U1GJ	Griffon 13 ID; 110 mm	4.0 - 13.0	anthracite - black - red	240 - 370 mm	W001G1T	W012J1T
7524U1GK	Griffon 13 ID; 90 mm	4.0 - 13.0	teal - flo-yellow	240 - 370 mm	W001G1T	W012J1T
7524U1GL	Griffon 13 ID; 100 mm	4.0 - 13.0	teal - flo-yellow	240 - 370 mm	W001G1T	W012J1T
7524U1GM	Griffon 13 ID; 110 mm	4.0 - 13.0	teal - flo-yellow	240 - 370 mm	W001G1T	W012J1T
7524U1GN	Griffon 13 ID; 120 mm	4.0 - 13.0	teal - flo-yellow	240 - 370 mm	W001G1T	W012J1T
7424S1MA	Squire 11 ID; 90 mm	3.0 - 11.0	white	240 - 370 mm	W001G1T	W012J1T
7424T1MG	Squire 11 ID; 100 mm	3.0 - 11.0	white	240 - 370 mm	W001G1T	W012J1T
7424T1MC	Squire 11 ID; 90 mm	3.0 - 11.0	teal - black	240 - 370 mm	W001G1T	W012J1T
7424T1MD	Squire 11 ID; 110 mm	3.0 - 11.0	teal - black	240 - 370 mm	W001G1T	W012J1T
7424S1ME	Squire 11 ID; 90 mm	3.0 - 11.0	black	240 - 370 mm	W001G1T	W012J1T
7424T1MH	Squire 11 ID; 100 mm	3.0 - 11.0	black	240 - 370 mm	W001G1T	W012J1T

18.4 INSTALLATION TOOLS - MARKER BINDING MODELS 20 / 21

MARKER BINDING MODELS 20 / 21					INSTALLATION TOOL	
7424S1MF	Squire 11 ID; 110 mm	3.0 - 11.0	black	240 - 370 mm	W001G1T	W012J1T
7816U1SS	F12 TOUR EPF; S 265 - 325; 100 mm	4.0 - 12.0	black - anthracite	265 - 325 mm	W006M1T	
7816U1LS	F12 TOUR EPF; L 305 - 365; 100 mm	4.0 - 12.0	black - anthracite	305 - 365 mm	W006M1T	
7816R1SE	F12 TOUR EPF; S 265 - 325; 110 mm	4.0 - 12.0	black - anthracite	265 - 325 mm	W006M1T	
7816R1LE	F12 TOUR EPF; L 305 - 365; 110 mm	4.0 - 12.0	black - anthracite	305 - 365 mm	W006M1T	
7716S1TC	F10 TOUR; S 265 - 325; 90 mm	3.0 - 10.0	black - white	265 - 325 mm	W010G1T	W011J1T
7716S1TD	F10 TOUR; L 305 - 365; 90 mm	3.0 - 10.0	black - white	305 - 365 mm	W010G1T	W011J1T
7716U1TS	F10 TOUR; S 265 - 325; 100 mm	3.0 - 10.0	black - white	265 - 325 mm	W010G1T	W011J1T
7716U1TL	F10 TOUR; L 305 - 365; 100 mm	3.0 - 10.0	black - white	305 - 365 mm	W010G1T	W011J1T
7733U1MA	KINGPIN 10; 75 - 100 mm	5.0 - 10.0	black - red	255 - 390 mm	W008T1T	
7733U1MB	KINGPIN 10; 100 - 125 mm	5.0 - 10.0	black - red	255 - 390 mm	W008T1T	
7933U1MA	KINGPIN 13; 75 - 100 mm	6.0 - 13.0	black - red	255 - 390 mm	W008T1T	
7933U1MB	KINGPIN 13; 100 - 125 mm	6.0 - 13.0	black - red	255 - 390 mm	W008T1T	
7734U1MA	KINGPIN 10 Demo; 75 - 100 mm	5.0 - 10.0	black - red	264 - 356 mm	W008T1T	
7934U1MB	KINGPIN 13 Demo; 100 - 125 mm	6.0 - 13.0	black - red	264 - 356 mm	W008T1T	
7831T1CS	KINGPIN MWorks 12; 75 - 100 mm	5.0 - 12.0	black - red	255 - 390 mm	W008T1T	
7831T1CW	KINGPIN MWorks 12; 100 - 125 mm	5.0 - 12.0	black - red	255 - 390 mm	W008T1T	
7833S1MA	MARKER ALPINIST 12	6.0 - 12.0	black - red	243 - 367 mm	W008T1T	
7833S1MB	MARKER ALPINIST 12	6.0 - 12.0	black - titanium	243 - 367 mm	W008T1T	
7633S1MB	MARKER ALPINIST 9	4.0 - 9.0	black - titanium	243 - 367 mm	W008T1T	
7433U1MC	MARKER ALPINIST 8	3.0 - 8.0	black - turquoise	243 - 367 mm	W008T1T	
7433U1MB	MARKER ALPINIST 8	3.0 - 8.0	black - titanium	243 - 367 mm	W008T1T	
7834S1MW	MARKER ALPINIST 12 long travel; 105 mm	6.0 - 12.0	black - titanium	243 - 387 mm	W008T1T	
7834S1MS	MARKER ALPINIST 12 long travel; 90 mm	6.0 - 12.0	black - titanium	243 - 387 mm	W008T1T	
7634S1MW	MARKER ALPINIST 9 long travel; 105 mm	4.0 - 9.0	black - titanium	243 - 387 mm	W008T1T	
7634S1MS	MARKER ALPINIST 9 long travel; 90 mm	4.0 - 9.0	black - titanium	243 - 387 mm	W008T1T	
6920U1MB	XComp 16 GW black	6.0 - 16.0	black	240 - 360 mm	W001G1T	
6820U1MB	XComp 12 GW black	4.0 - 12.0	black	240 - 360 mm	W001G1T	
6224U1MS	Free 7; 95 mm	2.0 - 7.0	black	190 - 310 mm	W007H1T	
6224U1MW	Free 7; 95 mm	2.0 - 7.0	white - silver	190 - 310 mm	W007H1T	
6820T1MA	12.0 TPX; 90 mm	4.0 - 12.0	black - anthracite	240 - 360 mm	W001G1T	W012J1T
6720T1MA	11.0 TP; 90 mm	3.0 - 11.0	black - anthracite	240 - 360 mm	W001G1T	W012J1T
6720T1MC	11.0 TP; 110 mm	3.0 - 11.0	black - anthracite	240 - 360 mm	W001G1T	W012J1T
6720S1MD	11.0 TP; 110 mm	3.0 - 11.0	white	240 - 360 mm	W001G1T	W012J1T
6520T1MA	10.0 TP; 85 mm	3.0 - 10.0	black - anthracite	240 - 360 mm	W001G1T	W012J1T
6220T1MA	7.0; 70 mm	2.0 - 7.0	black - anthracite	190 - 310 mm	W007H1T	
6220T1MB	7.0; 70 mm	2.0 - 7.0	white	190 - 310 mm	W007H1T	
6220U1MC	7.0; 85 mm	2.0 - 7.0	black - anthracite	190 - 310 mm	W007H1T	
6120T1MA	4.5; 70 mm	0.75 - 4.5	black - anthracite	190 - 310 mm	W007H1T	
6120T1MB	4.5; 70 mm	0.75 - 4.5	white	190 - 310 mm	W007H1T	
6120T1MC	4.5; 85 mm	0.75 - 4.5	black - anthracite	190 - 310 mm	W007H1T	
6862U1MC	FDT TPX 12; 90 mm	4.0 - 12.0	black - anthracite	260 - 388 mm	W009P1T	W004Q1T

18.4 INSTALLATION TOOLS - MARKER BINDING MODELS 20 / 21

MARKER BINDING MODELS 20 / 21					INSTALLATION TOOL	
6862U1MCS	FDT TPX 12 System; 90 mm	4.0 - 12.0	black - anthracite	260 - 388 mm	W009P1T	W004Q1T
6562U1MC	FDT TP 10; 80 mm	3.0 - 10.0	black - anthracite	260 - 388 mm	W009P1T	W004Q1T
6562U1MCS	FDT TP 10 System; 80 mm	3.0 - 10.0	black - anthracite	260 - 388 mm	W009P1T	W004Q1T
6562U1MT	FDT TLT 10; 80 mm	3.0 - 10.0	black - anthracite	260 - 388 mm	W009P1T	W004Q1T
6263T1MA	FDT 7.0 System; L 235 - 330; 70 mm	2.0 - 7.0	black - anthracite	235 - 330 mm	W003H1T	
6163T1MA	FDT 4.5 System; S 190 - 285; 70 mm	0.75 - 4.5	black - anthracite	190 - 285 mm	W003H1T	
6263T1MC	FDT 7.0 System; L 235 - 330; 85 mm	2.0 - 7.0	black - anthracite	235 - 330 mm	W003H1T	
6163T1MC	FDT 4.5 System; S 190 - 285; 85 mm	0.75 - 4.5	black - anthracite	190 - 285 mm	W003H1T	
6220T1MR	7.0 RTL; 70 mm	2.0 - 7.0	black - anthracite	240 - 304 mm	W007H1T	
6120T1MR	4.5 RTL; 70 mm	0.75 - 4.5	black - anthracite	200 - 264 mm	W007H1T	
7520U1GA	Griffon 13 D; 90 mm	4.0 - 13.0	black	260 - 388 mm	W009P1T	W004Q1T
7520U1GB	Griffon 13 D; 110 mm	4.0 - 13.0	black	260 - 388 mm	W009P1T	W004Q1T
7520U1GD	Griffon 13 D; 100 mm	4.0 - 13.0	black	260 - 388 mm	W009P1T	W004Q1T
6862U1GA	Griffon 13 TCX D; 90 mm	4.0 - 13.0	black	260 - 388 mm	W009P1T	W004Q1T
6862U1GB	Griffon 13 TCX D; 110 mm	4.0 - 13.0	black	260 - 388 mm	W009P1T	W004Q1T
6862U1GD	Griffon 13 TCX D; 100 mm	4.0 - 13.0	black	260 - 388 mm	W009P1T	W004Q1T
6762S1MA	Squire 11 TCX D; 90 mm	3.0 - 11.0	black	260 - 388 mm	W009P1T	W004Q1T
6762S1MH	Squire 11 TCX D; 100 mm	3.0 - 11.0	black	260 - 388 mm	W009P1T	W004Q1T
7624U1JL	Jester 16 ID Limited Edition; 100 mm	6.0 - 16.0	black - white - gold	240 - 370 mm	W001G1T	W012J1T
7424U1UJ	Squire 11 ID; 90 mm	3.0 - 11.0	gray - white	240 - 370 mm	W001G1T	W012J1T
7424U1UK	Squire 11 ID; 100 mm	3.0 - 11.0	gray - white	240 - 370 mm	W001G1T	W012J1T
6563U1US	FDT TP 10 white; System; 85 mm	3.0 - 10.0	white - anthracite	260 - 388 mm	W009P1T	W004Q1T
6563U1UL	FDT TP 10 white; System; 100 mm	3.0 - 10.0	white - anthracite	260 - 388 mm	W009P1T	W004Q1T
6862U1MWS	FDT TPX 12 System; 110 mm	4.0 - 12.0	black - anthracite	260 - 388 mm	W009P1T	W004Q1T
2065T1MA	FDT plate; bulk	ohne	black	260 - 388 mm	W009P1T	W004Q1T
2065U1MP	FDT High Performance plate; bulk	ohne	black - anthracite	260 - 388 mm	W009P1T	W004Q1T
2020R1SS	World Cup PC Interface 10 mm	ohne	black	260 - 362 mm	W00201T	
2020R1SB	World Cup PC Interface 10 mm; bulk	ohne	black	260 - 362 mm	W00201T	
2022R1SS	World Cup PC Interface 14 mm	ohne	black	260 - 362 mm	W00201T	
2022R1SC	World Cup PC Interface 14 mm; bulk	ohne	black	260 - 362 mm	W00201T	

Date In: _____	Date Due: _____	Taken By: _____
Skier Information:		
Name _____ Last _____ First _____ Initial _____		
Street: _____		
City: _____		
State: _____ Zip: _____		
Phone: _____		
E-mail Address: _____		
Local Accommodations: _____		Local Phone: _____
Weight: _____ lbs. Height: _____ ft. _____ in. Age: _____ Skier Type: (Check One) ☐ ☐ ☐ ☐ ☐		
AGREEMENT (To be signed as skis are being picked up)		
I understand how this equipment works and have received instructions and satisfactory answers to any questions regarding the use and function of this equipment. If this is new equipment, I acknowledge receipt of the manufacturer's written instructions. 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 that proper bindings settings depend upon the accuracy of my statements about weight, height, age, skier type on this form. I have confirmed that the binding release/retention settings on this equipment correspond to those stated on this form. If this equipment is to be used by someone other than me, I certify that I am acting as agent for the user and that I will provide this form and all pertinent warnings and information to the user. I HAVE CAREFULLY READ, UNDERSTOOD AND AGREED TO THE TERMS OF THE WARNING, ASSUMPTION OF RISK, LIABILITY RELEASE, INDEMNITY AND HOLD HARMLESS AGREEMENT AND AGREEMENT NOT TO SUE ON THE REVERSE SIDE OF THIS DOCUMENT		
Signature of Equipment User _____		Date _____
Signature of Parent/Guardian/Agent _____		Date _____
Equipment Information:		
Skis: Brand _____ Model _____ Serial No. _____ Length: _____ cm		Charges
Boots: Brand _____ Model _____ Boot Sole Length: _____ mm		
Bindings: Brand _____ Model _____		\$ _____
Other: Brand _____ Model _____		\$ _____
Equipment Total:		\$ _____
Work Requested:		\$ _____
Labor Total:		\$ _____
Equipment Total		\$ _____
Labor Total		\$ _____
Subtotal		\$ _____
Tax		\$ _____
TOTAL		\$ _____
Special Instructions: _____ System Inspection Record:		
Boot Sole Length: _____ mm Type: ☐ Alpine (ISO 5355) "A" (Adult Sole) ☐ GripWalk Adult (ISO 9523) ☐ Alpine Touring (ISO 9523) ☐ Boot / Binding Interface		Skier Code _____ ☐ Alpine (ISO 5355) "C" (Junior Sole) ☐ GripWalk Child (ISO Boot/Binding system approved) ☐ Other _____
☐ Boot Sole Type and Binding are Compatible ☐ Utilizes Pin/Tec Inserts for Skiing and Climbing ☐ Utilizes Pin/Tec Inserts for "Climbing Only"		
Test of Toes for Elastic Travel and Recentering		Pass ☐ Fail ☐
Test of Heels for Elastic Travel and Return		Pass ☐ Fail ☐
Forward Pressure Has Been Properly Set		Pass ☐ Fail ☐
Test of Toes for Twist Release		Pass ☐ Fail ☐
Test of Heels for Forward Lean Release		Pass ☐ Fail ☐
Initial Setting _____ Left _____ Right _____ Final Settings _____		Toe _____ Heel _____
Comments: _____		

**WARNING, ASSUMPTION OF RISK,
LIABILITY RELEASE, INDEMNITY
and HOLD HARMLESS AGREEMENT
and AGREEMENT NOT TO SUE**

(To be signed when bindings are being
purchased, and before bindings are mounted.)

PLEASE READ CAREFULLY BEFORE SIGNING

- I authorize this ski shop to perform such work that is necessary to properly mount, test and/or repair my skis, bindings and/or boots.
- I understand and agree that skiing and related activities are **HAZARDOUS** and that injuries are common and ordinary occurrences during these activities. **I AGREE TO ASSUME ALL RISKS** of death or of injury to any part of the user's body while using this equipment.
- For **Alpine Ski Equipment**, I understand that the ski-boot-binding system is designed to release the boot from the ski when certain forces on the system reach preset values, but that the binding **WILL NOT RELEASE OR RETAIN** at all times where release or retention may prevent injury, and that it **CANNOT** prevent all injuries to any part of the user's body. I understand and agree that lower settings on my bindings will increase releasability but also increase the risk of injury due to inadvertent release, that higher settings on my bindings will increase retention but also increase the risk of injury due to non-release, and that injuries due to unwanted release or retention are inherent risks of skiing.
- I understand and agree that certain risks of skiing may be reduced, but not entirely eliminated, by taking lessons, by following **"YOUR RESPONSIBILITY CODE"** which is posted at most wintersport areas and by using reasonable care and common sense. I further understand that a brake or other runaway prevention system must be used with all skis at all times, including while riding lifts and while carrying on or near a slope, in order to reduce the risk of injury to others.
- To the fullest extent allowed by law, I hereby agree to forever **RELEASE AND HOLD HARMLESS** this ski shop, and all manufacturers and distributors of this equipment, 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 any equipment listed on this form, whether resulting from **NEGLIGENCE** or any other cause. I further agree that **I WILL DEFEND AND INDEMNIFY** them if any claim or action is pursued for any injuries, damages or death relating to skiing, or any related activities involving the use of this equipment.
- I accept this equipment **"AS IS"** and with **NO WARRANTIES**, express or implied, beyond those stated in this agreement and in the manufacturer's written limited warranty, if any.
- This document is a **LEGALLY BINDING CONTRACT** which supersedes any other agreements by or between the parties, and which constitutes the **FINAL AND ENTIRE AGREEMENT** regarding this transaction and this equipment. This agreement is intended to provide a **COMPREHENSIVE RELEASE OF ALL LEGAL LIABILITY** which is binding upon and for the benefit of all parties, their heirs, agents and assigns, but it is not intended to assert any claims or defenses that are prohibited by law. If any part of this agreement is held to be invalid or unenforceable, the remainder shall be given full force and effect. The specific legal rights of the parties may vary among different states and provinces.

I HAVE CAREFULLY READ, UNDERSTOOD AND AGREED TO THE TERMS OF THIS WARNING, ASSUMPTION OF RISK, LIABILITY RELEASE, INDEMNITY AND HOLD HARMLESS AGREEMENT AND AGREEMENT NOT TO SUE. I AM AWARE THAT THIS IS A LEGALLY BINDING CONTRACT.

Signature of Equipment User _____ Date _____

Parent/Guardian/Agent: I verify that I am the parent, guardian or agent of the Equipment User and that I have the authority to enter into this agreement on behalf of the Equipment User and I agree to be bound by the terms of this warning, assumption of risk, liability release, indemnity and hold harmless agreement and agreement not to sue.

Signature of Parent/Guardian/Agent _____ Date _____

Date Out:

Time Out:

Date In:

Time In:

Actual Return Date:

Return Time:



Name: _____ Last First Initial		Home Phone: (____) _____	No. of Rental Days
Address: Street: _____		Local Accommodations: _____	Daily Rate \$
City: _____ State: _____ Zip: _____ Local Phone: (____) _____			Other \$
E-mail Address: _____			Tax \$
Your Weight: _____ lbs. Your Height: _____ ft. _____ in. Your Age: _____		Skiing Skier Type: (Check) ☐ ☐ ☐ ☐ ☐	Total Rental \$
Equipment Damage Waiver ☐ Accepted ☐ Declined		Payment Method (Circle One) Cash ☐ Check ☐ Credit Card ☐ Visa ☐ MasterCard ☐ Diners Club ☐ American Express ☐ Other: _____	
This damage waiver applies to equipment breakage only; it does not apply to lost, misplaced or stolen equipment. If the damage waiver is accepted, the shop will absorb the cost of repairing any accidental damage. The customer is responsible for the full retail value of any lost, misplaced, stolen or intentionally damaged equipment.		Credit Card: Expiration Date: _____	
Inventory No./Code		No.: _____	
Ski	Size cm	cvv: _____	
Boot	Sole Length mm	Deposit \$	
Binding	Model	Balance \$	
Pole	Size in.		
Technician's Signature: _____ Date: _____			

AGREEMENT

I accept full financial responsibility for the equipment listed on this form. I promise to return it clean and undamaged by the agreed time and date, and if I fail to do so, I will pay for its repair, cleaning or replacement at the full retail rate, as determined by the shop, as well as for the full rental value of any additional days.

I understand how this equipment works and have received instructions and satisfactory answers to any questions. I agree to check this equipment before each use (including the binding anti-friction device); and 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 that proper bindings settings depend upon the accuracy of my statements about weight, height, age, and skier type on this form. I have confirmed that the binding release/retention settings on this equipment correspond to those stated on this form.

If this equipment is to be used by someone other than me, I certify that I am acting as agent for the user and that I will provide this form and all pertinent warnings and information to the user.

I HAVE CAREFULLY READ, UNDERSTOOD AND AGREED TO THE TERMS OF THE WARNING, ASSUMPTION OF RISK, LIABILITY RELEASE, INDEMNITY AND HOLD HARMLESS AGREEMENT AND AGREEMENT NOT TO SUE ON THE REVERSE SIDE OF THIS DOCUMENT.

Signature of the Equipment User Parent/Guardian/Agent: I verify that I am the parent, guardian or agent of the Equipment User and that I have the authority to enter into this agreement on behalf of the Equipment User and I agree to be bound by the terms of the Warning, Assumption of Risk, Liability Release, Indemnity and Hold Harmless Agreement and Agreement Not to Sue on the reverse side of this document. Signature of Parent/Guardian/Agent (if not an adult user)	Date Date
--	---------------------------------

WARNING, ASSUMPTION of RISK, LIABILITY RELEASE, INDEMNITY and HOLD HARMLESS AGREEMENT and AGREEMENT NOT TO SUE
PLEASE READ CAREFULLY BEFORE SIGNING

- I understand and agree that skiing and related activities are **HAZARDOUS** and that injuries are common and ordinary occurrences during these activities. **I AGREE TO ASSUME ALL RISKS** of death or of injury to any part of the user's body while using this equipment.
- I understand that the ski-boot-binding system is designed to release the boot from the ski when certain forces on the system reach preset values, but that the binding **WILL NOT RELEASE OR RETAIN** at all times where release or retention may prevent injury, and that it **CANNOT** prevent all injuries to any part of the user's body. I understand and agree that lower settings on my bindings will increase releasability but also increase the risk of injury due to inadvertent release, that higher settings on my bindings will increase retention but also increase the risk of injury due to non-release, and that injuries due to unwanted release or retention are inherent risks of skiing.
- I understand and agree that certain risks of skiing may be reduced, but not entirely eliminated, by taking lessons, by following **"YOUR RESPONSIBILITY CODE"** which is posted at most wintersport areas and by using reasonable care and common sense. I further understand that a leash or other runaway prevention system must be used with all skis at all times, including while riding lifts and while carrying equipment on or near a slope, in order to reduce the risk of injury to others.
- To the fullest extent allowed by law, I hereby agree to forever **RELEASE AND HOLD HARMLESS** this ski shop, and all manufacturers and distributors of this equipment, 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 any equipment listed on this form, whether resulting from **NEGLIGENCE** or any other cause. I further agree that **I WILL DEFEND AND INDEMNIFY** them if any claim or action is pursued for any injuries, damages or death relating to skiing or any related activities involving the use of this equipment.
- I accept this equipment **"AS IS"** and with **NO WARRANTIES**, express or implied, beyond those stated in this agreement and in the manufacturer's written limited warranty, if any.
- This document is a **LEGALLY BINDING CONTRACT** which supersedes any other agreements by or between the parties, and which constitutes the **FINAL AND ENTIRE AGREEMENT** regarding this transaction and this equipment. This agreement is intended to provide a **COMPREHENSIVE RELEASE OF ALL LEGAL LIABILITY** which is binding upon and for the benefit of all parties, their heirs, agents and assigns, but it is not intended to assert any claims or defenses that are prohibited by law. If any part of this agreement is held to be invalid or unenforceable, the remainder shall be given full force and effect. The specific legal rights of the parties may vary among different states and provinces.

I HAVE CAREFULLY READ, UNDERSTOOD AND AGREED TO THE TERMS OF THIS WARNING, ASSUMPTION OF RISK, LIABILITY RELEASE, INDEMNITY AND HOLD HARMLESS AGREEMENT AND AGREEMENT NOT TO SUE.
I AM AWARE THAT THIS IS A LEGALLY BINDING CONTRACT.

Signature of the Equipment User Parent/Guardian/Agent: I verify that I am the parent, guardian or agent of the Equipment User and that I have the authority to enter into this agreement on behalf of the Equipment User and I agree to be bound by the terms of this Warning, Assumption of Risk, Liability Release, Indemnity and Hold Harmless Agreement and Agreement Not to Sue. Signature of Parent/Guardian/Agent	Date Date
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Instructions

1. Photocopy the Post Accident Ski Equipment Inspection Form on the following page.
2. Recorded information should be printed clearly.
3. All information and test results should be factual and complete.
4. Mistakes should be corrected and initialed.
5. Mark all appropriate spaces. If information is unknown or does not apply, the appropriate space should be so marked.

Skier Information

1. Skier information should be taken from the workshop retail or rental form.
2. Accident and injury information should be taken from the ski patrol accident report (if available).

Equipment Inspection/Tests

1. Refer to the latest Marker Technical Manual for standardized boot sole information.
2. Inspections on equipment should be conducted "as is."
3. Inspections of binding adjustments should be in accordance with recommendations outlined in the latest Marker Technical Manual.
4. System visual inspections should be in accordance with recommendations outlined in the latest Marker Technical Manual.
5. The mechanical testing device should be properly calibrated and operated in the manner recommended by the device manufacturer.
6. Equipment should be tested to the "In-Use Torque Range".
7. Mechanical tests should be conducted on the equipment "as is."
8. Test results should be recorded in Newton meters, not merely "pass" or "fail."

Testing Information

1. The "Inspection Technician" should be a current Marker Certified Technician.
2. The report should be reviewed, signed and dated by the shop manager.

POST ACCIDENT SKI EQUIPMENT INSPECTION FORM

Skier Information

Name: _____ Accident Date: _____
 Last Service Date: _____ Record #: _____
 Weight: _____ Height: _____ Age: _____ Sex: M F (circle one)
 Skier Type: I II III -I III+ (circle one)
 Injury: _____ Right or Left (circle one)
 Ski Area: _____ State: _____
 Comments: _____

Equipment Information

Ski Brand: _____ Model: _____ Length: _____ cm
 Serial #: _____ Rental #(if applicable): _____
 Boot Brand: _____ Model #: _____
 Boot Sole: _____ mm Rental #(if applicable): _____
 Binding Brand: _____ Binding Model: _____
 Toe Visual Indicator scale: _____ to _____
 Heel Visual Indicator scale: _____ to _____
 Skier's Personal Equipment:
 Ski/Binding: Yes No NA (circle one) Boots: Yes No NA (circle one)

Equipment Inspection/Tests

	LEFT (check one)			RIGHT (check one)		
	Yes	No	NA	Yes	No	NA
Ski / Binding / Boot						
Ski Boot Sole Within Industry Standards:	☐	☐		☐	☐	
All Boot Parts Present, Working Correctly:	☐	☐		☐	☐	
AFD OK and Intact:	☐	☐		☐	☐	
Forward Pressure Correct:	☐	☐		☐	☐	
Toe Height Correct:	☐	☐	☐	☐	☐	☐
Toe Wings Set Correctly:	☐	☐	☐	☐	☐	☐
Brake Fully Functional:	☐	☐		☐	☐	
Ski Damaged (Bent, Broken):	☐	☐		☐	☐	
System Passes Visual Inspection:	☐	☐		☐	☐	
Clockwise Mechanical Test Results (twist):	_____			_____		
Counterclockwise Mechanical Test Results (twist):	_____			_____		
Forward Lean Mechanical Test Results	_____			_____		
Visual Indicator Settings:	Toe: _____			_____		
	Heel: _____			_____		

Testing Information

Shop Name: _____
 Shop Location: _____
 Telephone #: _____
 Technician: _____
 Date: _____
 Report Reviewed by: _____
 Date: _____
 Testing Device: _____
 Brand: _____
 Model: _____
 Testing Device Last Inspected and Calibrated
 Date: _____
 By: _____

SPECIAL WARNING AND AGREEMENT TO ASSUME INCREASED RISK, DEFEND, INDEMNIFY AND HOLD HARMLESS, AND RELEASE OF LEGAL LIABILITY REGARDING NON-RECOMMENDED RELEASE RETENTION SETTINGS

Skier Information Name: _____ Age: ____ Home Address: _____ City: _____ State: ____ Zip: _____ Phone: () _____	Equipment Information Name of Ski Shop _____ Ski Shop Recommended Release Setting: _____ Skier's Requested Release Setting: _____
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Skier's Reason for Requested Setting: _____ _____ _____

Skier Agreement	I hereby acknowledge that I have requested this shop to make release retention settings on my ski bindings that are not recommended by the manufacturer of the bindings or by any safety or standards organization. I have been advised by this shop, AND I AGREE, that my use of such settings is NOT RECOMMENDED by this shop or by the manufacturer of the ski bindings, and that MY USE OF NON-RECOMMENDED SETTINGS IS LIKELY TO INCREASE THE RISK OF MY BEING INJURED. I understand and agree that lower settings on my bindings will increase the risk of injury due to inadvertent release, and that higher settings on my bindings will increase the risk of injury due to non-release of the ski-binding-boot system. I AGREE TO ASSUME ALL RISKS OF INJURIES OR DEATH that may result from my use of the settings I have requested. As a condition of having the shop set the bindings to a non-recommended setting, I also agree to DEFEND, INDEMNIFY AND HOLD HARMLESS, as well as to RELEASE FROM ANY LIABILITY, this shop, as well as all manufacturers and distributors of this ski equipment, and all of their agents and employees, for any injuries, damages or legal obligations that may arise from any person's use of this equipment. If this equipment is used by someone other than me, I certify that I am acting on my behalf and as agent for the user and that I will provide this form and all warnings and information to the user. This agreement is intended to provide a COMPREHENSIVE RELEASE OF ALL LEGAL LIABILITY which is binding upon and for the benefit of all parties, their heirs, agents and assigns, but it is not intended to assert any claims or defenses that are prohibited by law. If any part of this agreement is held to be invalid or unenforceable, the remainder shall be given full force and effect. The specific legal rights of the parties may vary among different states and provinces. READ AND UNDERSTAND THIS CONTRACT BEFORE SIGNING IT! Skier's Signature: _____ Date: _____ Parent or Guardian's Signature for Minor: _____ Date: _____ Shop Manager's Signature: _____ Date: _____ Note: Use this form in addition to the standard Retail or Rental Workshop Form.
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CHOOSE YOUR SKIER TYPE



Selecting Your Skier Type is Your Responsibility!

Your skier type, height, weight, age and ski boot sole length are used by the shop technician to determine the release/retention settings of your bindings. It is important to provide accurate information. Inaccurate information may increase your risk of injury.

Consult the following descriptions to select your Skier Type.

TYPE I Ski Cautiously

- Prefer slower speeds.
- Prefer cautious skiing on smooth slopes of gentle to moderate pitch.
- Prefer lower than average release/retention settings.
- Prefer an increased risk of inadvertent binding release in order to gain increased releasability in a fall.
- Entry-level skiers uncertain of their classification.

TYPE II Ski Moderately

- Prefer a variety of speeds.
- Prefer to ski on varied terrain.
- Skiers not classified as Type I or Type III.
- Prefer average release/retention settings appropriate for most recreational skiing.

TYPE III Ski Aggressively

- Prefer faster speeds.
- Prefer fast and aggressive skiing on slopes of moderate to steep pitch.
- Prefer higher than average release/retention settings.
- Prefer decreased releasability in a fall in order to gain decreased risk of inadvertent binding release.

If, from experience, you have been dissatisfied with the release/retention settings that result from your normal skier classification, or if you have some other special concern, you may wish to select lower or higher skier classifications ((**Type -I**) or (**Type III+**)) or select skier type designations that are different for twist and forward lean. Mention your dissatisfaction to your binding technician.

(Type -I) is for skiers who desire lower release/retention settings than Type I and will further increase the risk of inadvertent binding release in order to gain increased releasability in a fall.

(Type III+) is for skiers who desire higher release/retention settings than Type III and will further decrease releasability in a fall in order to gain decreased risk of inadvertent binding release.



MARKER

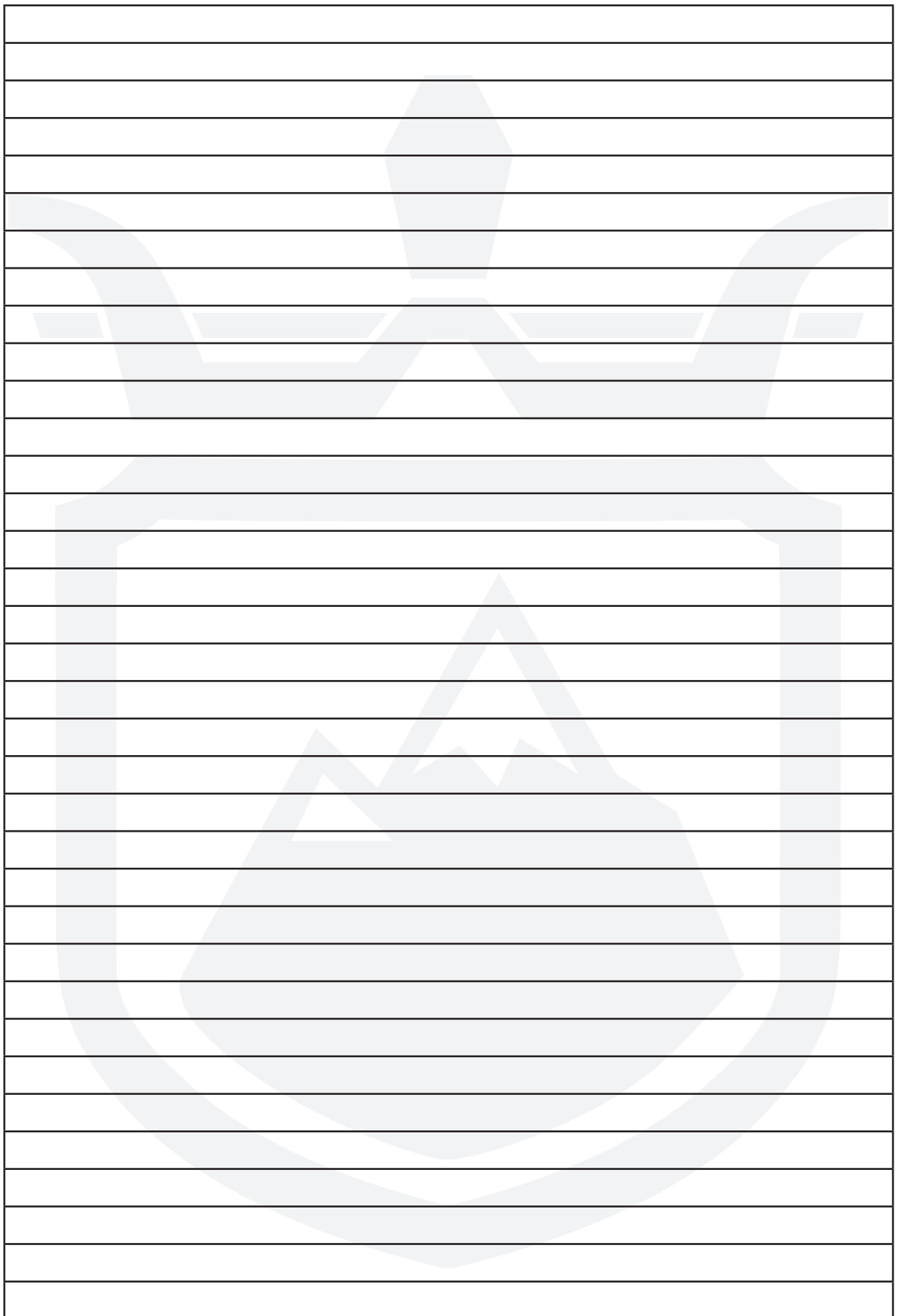
2020/2021 ADJUSTMENT CHART

MANDATORY RELEASE VALUES					EXAMPLES FOR INITIAL INDICATOR VALUE (pre-setting), DEPENDING ON BOOT SOLE LENGTH [mm]							
SKIER'S PARAMETERS			INSPECTION PARAMETERS									
WEIGHT [lbs] [kg]	HEIGHT [ft' in"] [cm]	SKIER CODE	TWIST [Nm]	FWD LEAN [Nm]	≤230	231-250	251-270	271-290	291-310	311-330	331-350	≥351
			5*	18*								
22-29 10-13		A	8	29	0.75	0.75	0.75					
30-38 14-17		B	11	40	1.00	0.75	0.75	0.75				
39-47 18-21		C	14	52	1.50	1.25	1.25	1.00				
48-56 22-25		D	17	64	2.00	1.75	1.50	1.50	1.25			
57-66 26-30		E	20	75	2.50	2.25	2.00	1.75	1.50	1.50		
67-78 31-35		F	23	87	3.00	2.75	2.50	2.25	2.00	1.75	1.75	
79-91 36-41		G	27	102		3.50	3.00	2.75	2.50	2.25	2.00	
92-107 42-48	≤4'10" ≤148	H	31	120			3.50	3.00	3.00	2.75	2.50	
108-125 49-57	4'11"-5'1" 149-157	I	37	141			4.50	4.00	3.50	3.50	3.00	
126-147 58-66	5'2"-5'5" 158-166	J	43	165			5.50	5.00	4.50	4.00	3.50	3.00
148-174 67-78	5'6"-5'10" 167-178	K	50	194			6.50	6.00	5.50	5.00	4.50	4.00
175-209 79-94	5'11"-6'4" 179-194	L	58	229			7.50	7.00	6.50	6.00	5.50	5.00
≥210 ≥95	≥6'5" ≥195	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**	588**								
NOTE 1: For skiers 29 lbs and under, no further correction is appropriate. NOTE 2: For Skiers 38 lbs and under, Skier Type -I is inappropriate. * LOWEST TOLERANCE LIMIT ** HIGHEST TOLERANCE LIMIT			TORQUE RANGE newton meters Reference Value R Inspection Range In-Use Range		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.							

Chart Based on "Skier Type I"



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IMPRINT

INTERNATIONAL HEADQUARTER

Marker Deutschland GmbH
Dr. Gotthilf-Näher-Strasse 6
82377 Penzberg
Germany
Ph: +49 (0) 8856 8000-0
Fax: +49 (0) 8856 8000-271
info@marker.de



Photography: Adam Clark, Peter Mathis, GEPA,
Michael Mayer, Pally Learmond
Created & produced by: yearning.de

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