

Welcome Marker Authorized Retailer and Shop Technicians:

Welcome to the 2024/25 season! Marker continues to offer the most complete binding collection in the industry, and this year is no exception. Innovations like the new Marker Alpinist Free and new Comp series are surrounded by proven, industry-leading products like the Duke PT collection, Griffon 13 and the Squire family. Help your customers make their new skis perform better by finding them just the right Marker model.

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 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 materials.

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

Shop Technician- Training information and Online Certification.

Shop Technician Log In:
Retailer Customer Number
Password : squire

We appreciate your business and support in this very important program.

Be sure to check out our shop employee purchase program at **www.markerbindings.com/pro** so you can ski on the same great MARKER products that you sell in the store. We also invite you to add Marker on the **ENDVR** app to easily get a pro code for shop employee pricing, sales clinics and sales incentive programs.

Please contact MARKER should you have any questions or comments.

Best regards for a great ski season,

MARKER USA
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3305 160th Ave SE
Bellevue, WA 98008

www.markerbindings.com

www.markercertification.com

CONTENT	PAGE
1 FORWARD & GENERAL INFORMATION	
1.1 Authorized Retailer Program	4
1.2 Indemnified Products	6
2 GENERAL GUIDELINES	
2.1 Binding Component Description	9
2.2 Binding inspection	11
2.3 Ski Inspection	11
2.4 Boot Inspection	12
3 INSTALLATION - GENERAL GUIDELINES	
3.1 Installation Tools	15
3.2 Tools and their Application	18
4 INSTALLATION MARKER ROYAL FAMILY - DUKE PT	
4.1 DUKE PT Component Description	21
4.2 DUKE PT	22
4.3 DUKE PT Information for the skier	27
5 INSTALLATION OF MARKER ROYAL & TOUR	
5.1 Jester Pro & Jester & Griffon	29
5.2 Squire 12 TCX & Squire 11	33
5.3 Squire 10	35
6 INSTALLATION MARKER PERFORMANCE LINE & JUNIOR	
6.1 10.0 TP	37
6.2 Free 7 & 7.0 & 4.5	38
7 INSTALLATION MARKER RACE LINE	
7.1 Competition Models	39
7.2 Comp 30 & Comp 20	40
7.3 Comp 12 & 16, Comp 12 & 16 GW, Xcomp GW	41
7.4 Comp 10 TCX & Comp 10	42
7.5 Comp Junior 8	43
7.6 World Cup Piston Control Interface 14mm	44
7.7 World Cup Piston Control Interface 10mm	46
7.8 World Cup Piston Control Interface - Mounting Version B	48
7.9 World Cup Alu Pro Plate	50
8 INSTALLATION MARKER / VÖLKL SYSTEMS	
8.1 RMotion3 GW	52
8.2 Wideride XL FR Demo GW & Wideride XL TCX Demo GW	54
8.3 Lowride XL	56
8.4 VMotion GW	58
VMotion Junior / VMotion Junior R	see → 14.4
9 INSTALLATION MARKER / K2 SYSTEMS	
9.1 Quikclik models	60
9.2 M2 / ERP	62
10 INSTALLATION MARKER / NORDICA SYSTEMS	
10.1 Nordica FDT models	64
10.2 Nordica Race Xcell GW	66
11 INSTALLATION MARKER / BLIZZARD SYSTEMS	
11.1 Blizzard Demo models (FDT)	68
INSTALLATION MARKER / BOGNER - SYSTEMS	Xcomp see → 8.1
12 BINDING ADJUSTMENT	
12.1 Release Value Selection and Adjustment	70
12.2 Adjustment screws and scales	74
12.3 Function test and inspection	76
12.4 Trouble - shooting	77
13 SPECIAL CASES	
13.1 Competition Bindings	78
13.2 Monoski	78
13.3 Adjustment outside of the standards	78

CONTENT

PAGE

13.4	Replacing ski brakes	78
13.5	Replacing ski brakes Duke PT, Royal Family, FDT & Tour	79
13.6	Replacing ski brakes Xcomp, Race line, TCX	80
13.7	Replacing ski brakes Compact Step - in	81
13.8	Replacing ski brakes Junior FDT	82
13.9	Replacing ski brakes Junior EPS	83
14	MARKER RENTAL & DEMO MODELS	
14.1	General Information and Descriptions	84
14.2	Installation Griffon D, Griffon TCX D, Squire TCX D & FDT	86
14.3	Junior RTL	88
14.4	FDT Junior	90
14.5	Function Test and Service	92
14.6	Overview of Rental Procedure	96
15	INFORMATION FOR THE SKIER	
15.1	Maintenance	97
15.2	Warranty	97
15.3	Record Keeping	98
15.4	Skier Instruction	100
16	INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS	
16.1	KINGPIN Component Description	101
16.2	Installation KINGPIN & KINGPIN MWERKS	102
16.3	Installation of KINGPIN Demo	106
16.4	Information KINGPIN Adjustment	110
16.5	Replacing Ski Brake KINGPIN / Gliding AFD	112
16.6	Information for the skier - KINGPIN	114
16.7	Marker Pinteck Crampons - DUKE PT, KINGPIN, ALPINIST & CRUISE	117
16.8	DIN Adapter AT Boot	118
17	INSTALLATION OF MARKER CRUISE & CRUISE DEMO BINDINGS	
17.1	Marker CRUISE Component Description	121
17.2	Installation of CRUISE	122
17.3	Installation of CRUISE Demo Bindings	127
17.4	Information CRUISE Adjustment	131
17.5	Information for the skier CRUISE	132
18	INSTALLATION OF MARKER ALPINIST BINDINGS	
18.1	ALPINIST & ALPINIST DEMO Description & Adjustment	134
18.2	Installation of MARKER ALPINIST & ALPINIST JR LT	135
18.3	Installation of MARKER ALPINIST DEMO	139
18.4	Installation of MARKER ALPINIST FREE	144
18.5	ALPINIST FREE Performance Booster	148
18.6	Information for the skier ALPINIST	151
18.7	ALPINIST Accessories	155
18.8	Ski brakes ALPINIST	156
19	INSTALLATION OF MARKER TOUR	
19.1	MARKER F 12 Tour EPF	157
19.2	MARKER F 10 Tour	161
19.3	Additional Information Marker F12 Tour EPF & F10 Tour	165
19.4	Crampons- F12 Tour EPF & F10 Tour	167
19.5	Crampon adapter- F12 Tour EP	168
19.6	MARKER F 5 Jr Tour	169
19.7	Information for the skier MARKER F5 Jr Tour	173
20	APPENDIX	
20.1	Screw Chart	175
20.2	Brake chart	179
20.3	Compatibility boot types / MARKER binding models	182
20.4	Installation Tools - Marker Binding Models 24/25	184
20.5	Workshop Forms	186
20.6	Post Accident Information & Equipment Inspection Form	188
20.7	Special Warning & Agreement Release Waiver	190
20.8	Alpine Touring Equipment Warning Form	191
20.9	Choose Your Skier Type	192
20.10	Marker Adjustment Chart	193

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 the 2024/2025 MARKER Certification Test after gaining a working knowledge of proper procedures for selecting, installing, and servicing MARKER products. Reading the 2024/2025 MARKER Technical Manual and viewing the training materials 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

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.

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 → 20.5

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, 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

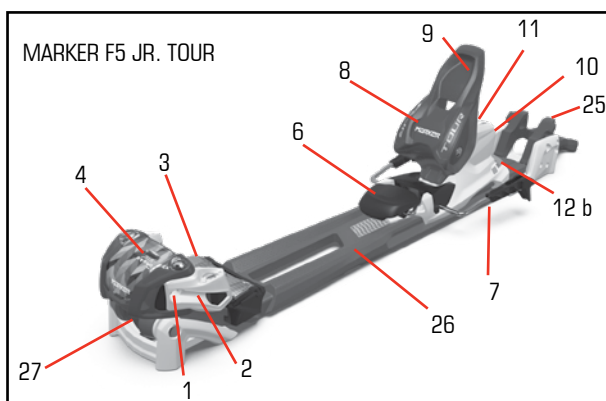
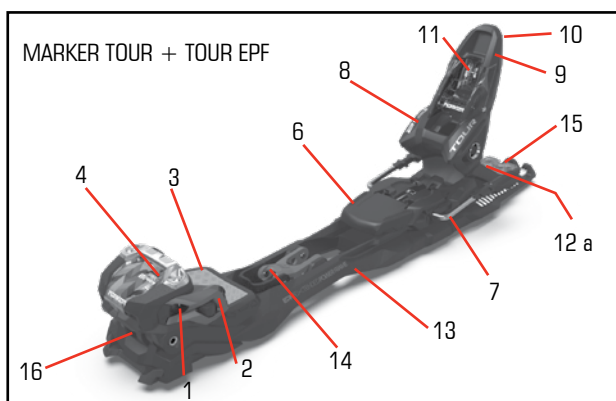
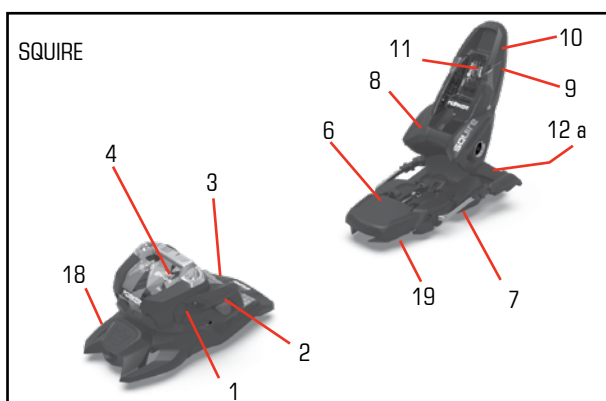
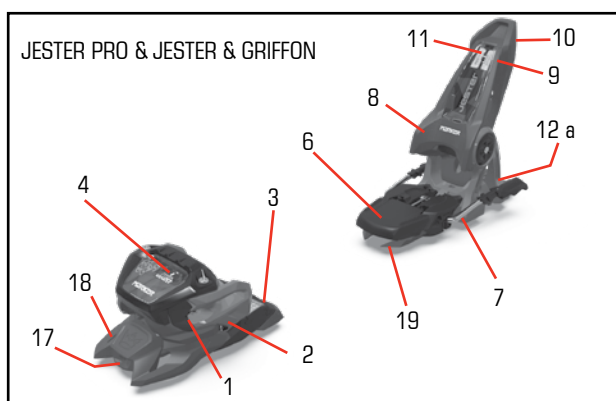
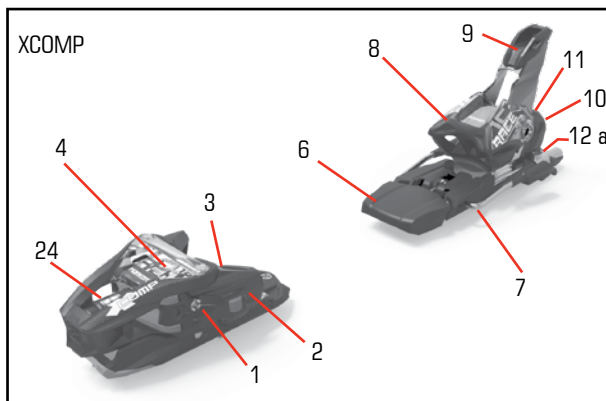
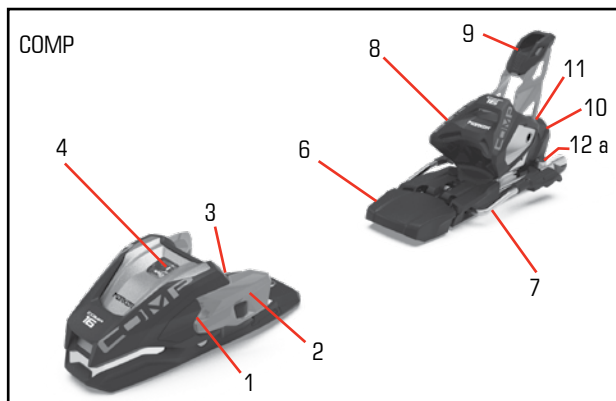
The bindings listed on the next two pages are defined by MARKER as current products and will be indemnified to the extent defined in this manual and in the MARKER Authorized Retailer Agreement.

2024/2025 Marker Indemnified Retail Binding Line

Current Retail			
Marker Retail Binding Line	Marker Retail Binding Line	Marker/Völkl Retail Line	Marker/K2 Retail Line
Comp 16 GW	<u>Non ISO Certified Bindings</u>	Lowride 12 TCX GW	XComp 16 GW
Comp 12 GW	Alpinist Free 13	vmotion 11 TCX GW	MXC 12 TCx light Quikclik
Comp 16	Alpinist Free 11	RMotion3 16 GW	ERC 11 TCx light Quikclik
Comp 12	Comp 30.0 NG	RMotion3 12 GW	M3 11 Compact Quikclik
Comp 10 TCX	Cruise 12	Lowride XL 13 GW	M3 10 Compact Quikclik
Comp 10	Cruise 10	iPT WR XL 12 TCX GW	ER3 10 Compact Quikclik
Comp Junior 8	Alpinist JR LT	iPT WR XL 11 TCX GW Lady	ERP 10 Quikclik
Duke PT 13	Alpinist 10	VMotion 12 GW	M2 10 Quikclik
Duke PT 11	Kingpin Mwerks 12	VMotion 11 ALU GW Lady	M2 10
F5 JR Tour	Kingpin 10 (single spring toe)	VMotion 10 GW	ERP 10
Comp 20.0 NG	Kingpin 13 (single spring toe)	VMotion 10 GW Lady	
Squire 12 TCX	Alpinist 12	7.0 VMotion Jr. R	<u>Marker/Blizzard Retail Line</u>
Squire 11	Alpinist 8	7.0 VMotion Jr. R Lady	TP 11 light Demo
Squire 10		4.5 VMotion Jr.	TP 11 light Demo W
Duke PT 16		4.5 VMotion Jr. Lady	TPC 11 DEMO
Jester Pro ID			TPC 11 DEMO W
Jester 16 ID		<u>Marker/Nordica Retail Line</u>	Xcell 14 Demo
Griffon 13 ID		TPX 12 FDT	Xcell 12 Demo
Tour 12 EPF		RACE Xcell 14	TPX 12 Demo
Tour 10		Xcell 14 FDT	TPX 12 Demo W
10.0 TP		Xcell 12 FDT	TCX 11 Demo
Free 7		TP2 Light 11 FDT	TPC 10 Demo
7.0		TP2 COMPACT 10 FDT	TLT 10 DEMO
4.5			TLT 10 DEMO W
Non Current Retail			
Marker Non Current Retail	Non ISO Certified Bindings	Marker/K2 Non Current Retail Line	Marker/Nordica Non Current Retail Line
Xcomp 16 GW	Alpinist 9	MXCELL 14 TCx D	TP Light 11 FDT
Xcomp 12 GW	Alpinist 12 Long travel	MXCELL 12 TCx D	
Xcomp 16	Alpinist 9 Long Travel	MXC 12 TCx Quikclik	<u>Marker/Blizzard Non Current Retail Line</u>
Xcomp 12		M3 12 TCx Light Quikclik	TLX 11 Demo
Baron EPF	<u>Marker/Völkl Non Current Retail Line</u>	M3 11 TCx Light Quikclik	IQ TP 10
Race 10 TCX	rMotion2 16 GW	ER3 10 TCx light Quikclik	IQ TP 10 W
Race 10	rMotion2 12 GW	MXCELL 14.0 TCx	IQ 7
Race 8 Junior	iPT WR XL 14 FR GW	MXCELL 12.0 TCx	IQ 4.5
Duke PT 12	iPT WR XL 12 FR GW	MXC 12.0 TCx	IQ Xcell 14 Demo
Xcomp 18	iPT WR XL 14.0 FR D	ERC 11.0 TC	IQ Xcell 12 Demo
Squire 11 ID	iPT WR XL 12.0 FR D	M3 12 TCx light	TCX 12 Demo
12.0 TPX	iPT WR XL 12.0 TCX D	M3 11 TCx light	TCX 12 Demo W
11.0 TP	iPT WR XL 11.0 TCX D	ER3 10 TCx light	IQ TCX 12 Demo
Kingpin 10 (6 pack toe)	rMotion2 16.0 D	M3 10 Compact	IQ TCX 12 Demo W
Kingpin 13 (6 pack toe)	rMotion2 12.0 D	ER3 10 Compact	TP 11 Demo
Duke Pro EPF	xMotion 12.0 TCX D	ER3 10 TCx light Quikclik	TP 10 Demo
Race Xcell 16 GW	xMotion 11.0 TCX D	M3 12.0 TC	TP 10 Demo W
Race Xcell 12 GW	4Motion XL 12.0 TCX D	M3 11.0 TC	IQ TP 10 Viva
Race Xcell 18	4Motion XL 12.0 TCX	M3 11.0	
Race Xcell 16	4Motion XL 11.0 TCX Lady	M3 10.0	
Race Xcell 12	4Motion 11.0 TC D	ER3 10.0 TC	
Jester 18 Pro (flat AFD)	4Motion 11.0 TC	ER3 10.0	
Duke EPF	4Motion 10.0	M2 10.0	
Free 8	3Motion TP Light 10.0	ERP 10.0	
Lord	3Motion Junior 4.5		
Squire (toe height adjust only)	3Motion Junior 7.0		
Schizo 14	eMotion 11.0 TC		
Schizo 11			
Free Ten			
M7.0 Free			
M11.0 TC EPS			
M10.0 EPS			
M7.0 EPS			
M4.5 EPS			
Jester (toe height adjust only)			
Griffon (toe height adjust only)			

2024/2025 Marker Indemnified Rental/Demo Binding Line			
Current Rental Demo			
Marker Rental Demo	Marker/Völkl Rental Demo	Marker/K2 Rental Demo	Marker/Blizzard Rental Demo
Squire 10 Demo	Lowride 12 TCX GW	Squire 10 Quikclik	TPC 11 DEMO
Griffon Demo	vmotion 11 TCX GW	MXCELL 12 TCx Quikclik	TPC 11 DEMO W
Griffon TCX Demo	rMotion3 16 GW	MXC 12 TCx light Quikclik	TPX 12 Demo
Squire TCX Demo	rMotion3 12 GW	ERC 11 TCx light Quikclik	TPX 12 Demo W
FDT TP12 TPX	Lowride XL 13 GW	M3 10 Compact Quikclik	TCX 11 Demo
FDT TP10	iPT WR XL 12 TCX GW	ER3 10 Compact Quikclik	TLX 11 Demo
FDT 7.0	iPT WR XL 11 TCX GW Lady	M2 10 Quikclik	TPC 10 Demo
FDT 4.5	VMotion 12 GW	ERP 10 Quikclik	Xcell 14 Demo
7.0 RTL	VMotion 11 ALU GW Lady	Marker/Nordica Rental Demo	Xcell 12 Demo
4.5 RTL	VMotion 10 GW	RACE XCELL 14	TLT 10 DEMO
<u>Non ISO Certified Bindings</u>	VMotion 10 GW Lady	XCELL 14 FDT	TLT 10 DEMO W
Cruise 10 Demo	7.0 VMotion Jr. R	XCELL 12 FDT	
Kingpin 10 Demo (single spring toe)	7.0 VMotion Jr. R Lady	TP2 LIGHT 11 FDT	Marker/Bogner Retail & Rental Demo
Kingpin 13 Demo (single spring toe)	4.5 VMotion Jr.	TP2 COMPACT 10 FDT	Xcomp 12 demo Bogner
Alpinist 10 Demo	4.5 VMotion Jr. Lady	M 7.0 FDT	
Alpinist 8 Demo		M 4.5 FDT	
Non Current Rental Demo			
Marker Non Current Rental Demo	Marker/Völkl Non Current Rental Demo	Marker/K2 Non Current Rental Demo	Marker/Blizzard Non Current Rental Demo
Kingpin 10 Demo (6 pack toe)	rMotion2 16 GW	Free 10 Quikclik	IQ TP 10
Kingpin 13 Demo (6 pack toe)	rMotion2 12 GW	MXCELL 14 TCx D	IQ TP 10 W
Jester Demo	iPT WR XL 14 FR GW	MXCELL 12 TCx D	TCX 12 Demo
Squire Demo	iPT WR XL 12 FR GW	MXC 12 TCx Quikclik	TCX 12 Demo W
10.0 Fastrak III TP	FDT TP11	M3 12 TCx light Quikclik	TP 11 Demo
M4.5 Fastrak 2	4Motion XL 12.0 TCX	M3 11 TCx light Quikclik	TP 10 Demo
M7.0 Fastrak 2	4Motion XL 11.0 TCX Lady	ER3 10 TCx light Quikclik	TP 10 Demo W
M7.0 RTL	iPT WR XL 14.0 FR D	Free 10 compact Quikclik	IQ 4.5
M4.5 RTL	iPT WR XL 12.0 FR D	MXCELL 12.0 TCx Q	IQ 7.0
10.0 Fastrak III	iPT WR XL 12.0 TCX D	MXC 12.0 TCx Q	IQ Xcell 14 Demo
12.0 Glide Control	iPT WR XL 11.0 TCX D	ERC 11.0 TC Q	IQ Xcell 12 Demo
	rMotion2 16.0 D	M3 10.0 TC Q	IQ TCX 12 Demo
	rMotion2 12.0 D	ER3 10.0 TC Q	IQ TCX 12 Demo W
	4Motion XL 12.0 TCX D	QuikClk M3 10	
	xMotion 12.0 TC D	QuikClk M2 10	Marker/Bogner Non Current Retail & Rental Demo
	xMotion 11 TCX D	QuikClk ERP 10	FDT TP 11 Bogner
	4Motion 11.0 TC D	Fastrak3 10 TP	FDT TP 11 Indigo
	4Motion 10.0 D		Xcell 12 Demo; Bogner
	3Motion TP Light 10.0 D	Marker/Nordica Non Current Rental Demo	Xcell 12 Demo; Indigo
	3Motion Junior 4.5	TPX 12 FDT	11.0 TC Glide Control D Bogner
	3Motion Junior 7.0	TP LIGHT 11 FDT	
	eMotion 11.0 TC D	TP COMPACT 10 FDT	

2.1 BINDING COMPONENT DESCRIPTION



TOE

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

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

MARKER TOUR + TOUR EPF

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

JESTER PRO & JESTER & GRIFFON

- 17 Adjustment screw gliding AFD
- 18 Front plate
- 19 Heel plate

SQUIRE

- 18 Front plate
- 19 Heel plate

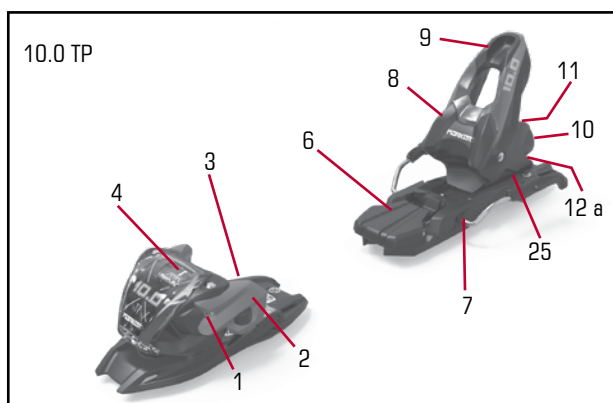
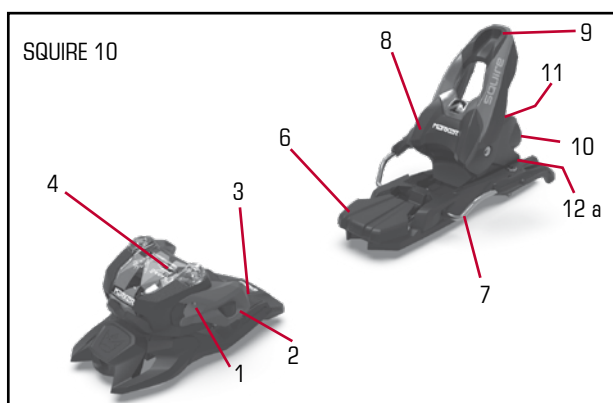
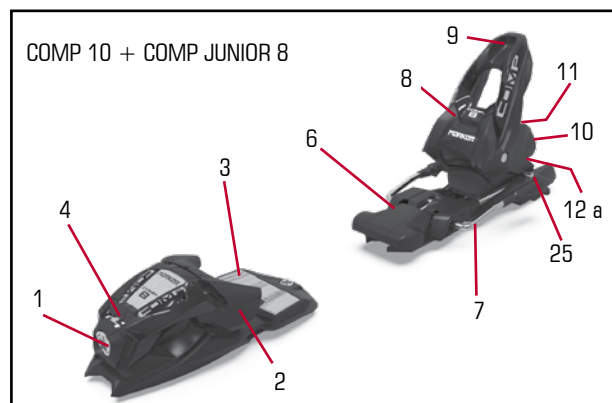
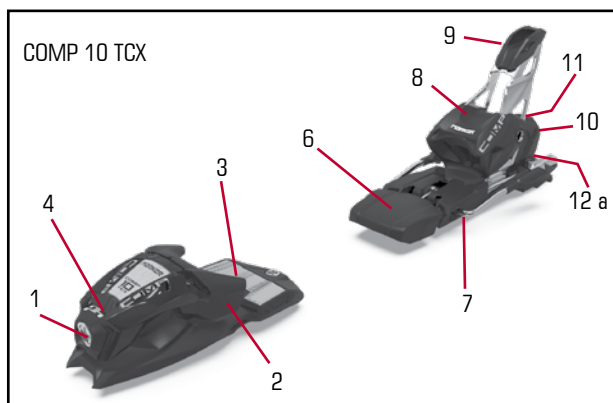
XCOMP

- 24 Xcell shock absorber

MARKER F5 JR. TOUR

- 25 Change-over lever for ascent mode & hiking aid
- 26 Jr. Tour system plate
- 27 AFD adjustment screw

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

EPS

- 25 heel plate

KINGPIN & KINGPIN DEMO:

see → **16.1** on page 101

MARKER CRUISE & CRUISE DEMO:

see → **17.1** on page 121

MARKER ALPINIST, ALPINIST FREE, ALPINIST JR LT, & ALPINIST DEMO:

see → **18.1** on page 134

MARKER DUKE PT:

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 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 ISO standards.

Most of the new MARKER bindings are in accordance with the requirement of the international norm (ISO) 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 - 13.9**
BRAKE CHART → **20.2**

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

SCREW CHART → **20.1**

- 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, ALPINIST FREE, ALPINIST JR LT, ALPINIST DEMO, CRUISE, CRUISE DEMO, KINGPIN, KINGPIN MWERKS & KINGPIN DEMO ski bindings do not meet ISO Certification.

MARKER ALPINIST, ALPINIST FREE, ALPINIST JR LT, ALPINIST DEMO, CRUISE, CRUISE DEMO, KINGPIN, KINGPIN MWERKS & KINGPIN DEMO 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 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:

STANDARD BOOT NORMS:

The standard boot norms define, among other things, the decisive shapes at the tip and heel of the ski boot as well as the coefficient of friction in the contact areas of the binding, in order to ensure a correct adjustment to ski bindings that comply with ISO 9462 or ISO 13 992.

If the ski boot complies with the respective standard, it is marked with ISO. If these initials are not on the boot, contact the boot manufacturer. Only standard boots must be used.

ISO 5355 Alpine Boot Sole Norm

(type A or C): (2.4 - 1 and 2.4 - 2)

Boots are designed for use with a pair of classic skis and a standard alpine binding, not with a monoski, snowboard or skiboard.

ISO 23223 Alpine Ski Boots with Improved Walking Soles

(type A or C): (2.4 - 3 and 2.4 -4)

Alpine ski boots with improved walking soles are intended to a better walkability without affecting the function of the alpine ski binding designed for improved walking soles. These boots are also manufactured for use with a classic pair of skis and alpine bindings with improved walking sole compatibility and are not suitable for use on monoskis, snowboards or skiboards.

Alpine ski boots with "GripWalk®" soles correspond to standard ISO 23223.



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, Standard Alpine Touring Standards or ISO 23223 standard. Mechanical Inspection is recommended after any such modifications.

ISO 9523 Alpine Touring Boot Sole Norm (2.4 - 5)

Boots are designed for use with a pair of touring bindings, not with alpine bindings, monoski, snowboard or skiboard.

CHECK THE BOOTS FOR THE FOLLOWING:

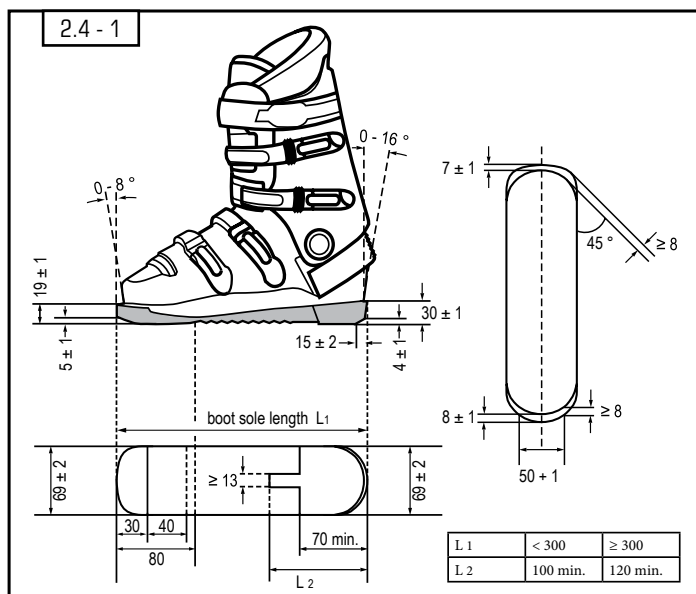
- If the boot is a Standard Alpine Boot, it will usually be stamped or marked with the initials "ISO". If these initials are not on the boot, contact the boot manufacturer for appropriate procedures for modifying the boot in order to bring it within standard. If the boot can be modified so that the resulting boot meets the ISO standard, it can be used with MARKER bindings.
- Check the AFD area of the sole for damage, excessive wear or incorrect material. This area of the sole should be undamaged.
- 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 / the outsoles.
- 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 ticket and inform the customer.



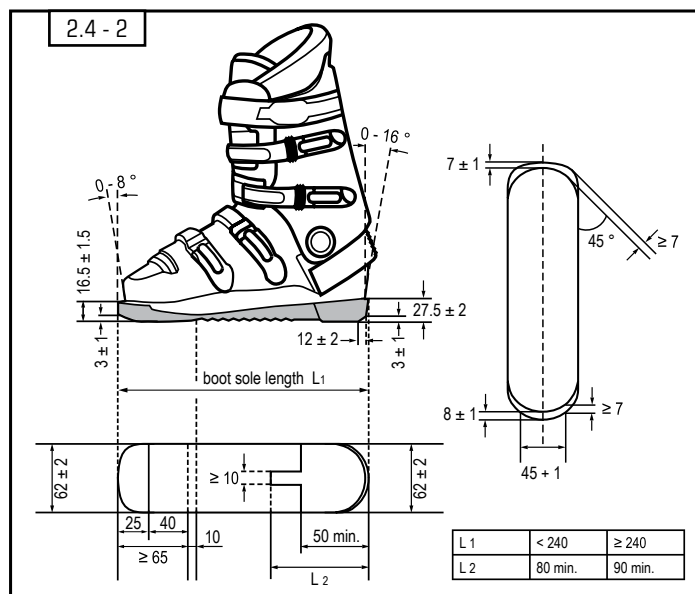
NOTE:

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

ISO 5355 type A Alpine ski boots for adults (2.4 - 1)

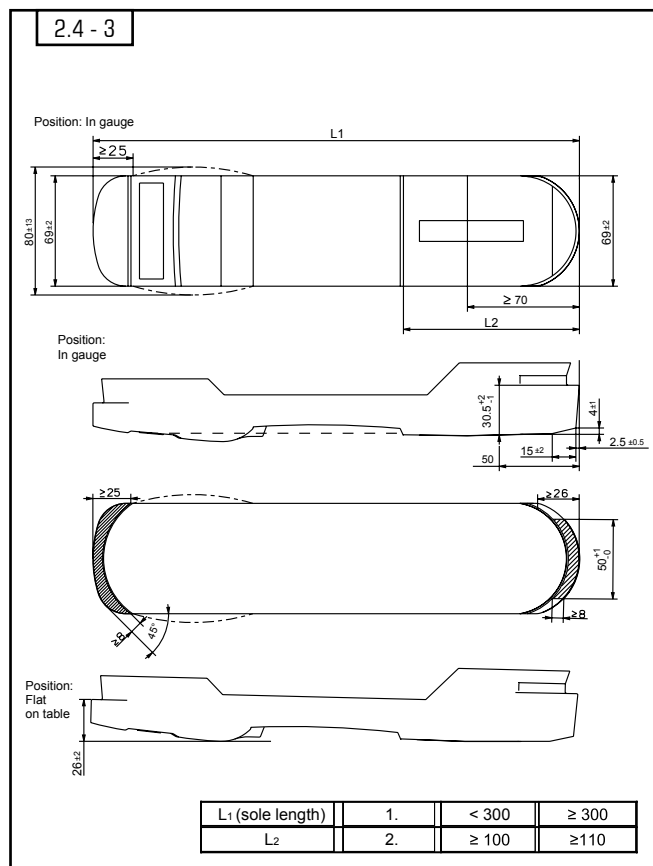


ISO 5355 type C Alpine ski boots for children (2.4 - 2)

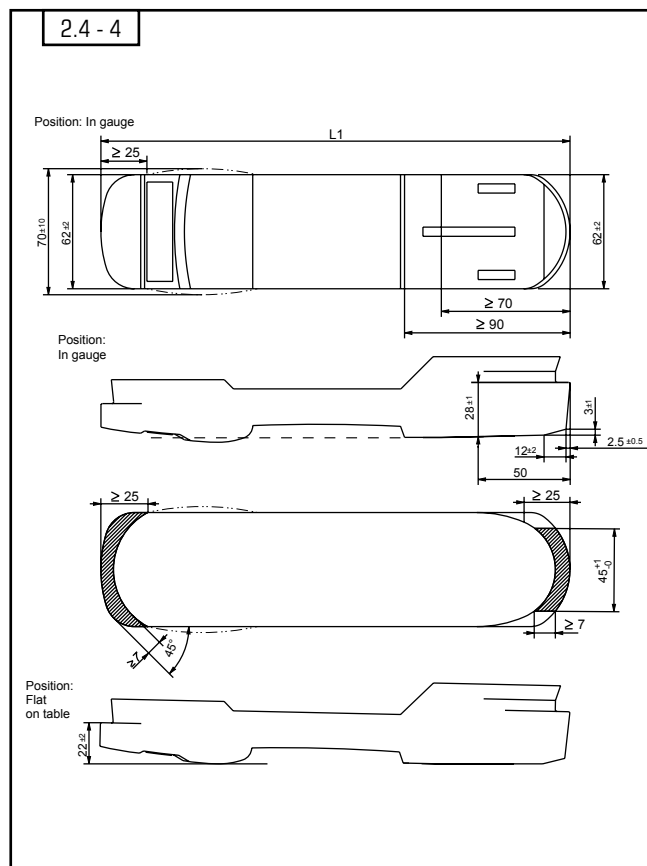


2.4 BOOT INSPECTION

ISO 23223 type A Alpine ski boots with Improved Walking Soles for adults (2.4 - 3)



ISO 23223 type C Alpine ski boots with Improved Walking Soles for children (2.4 - 4)



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.

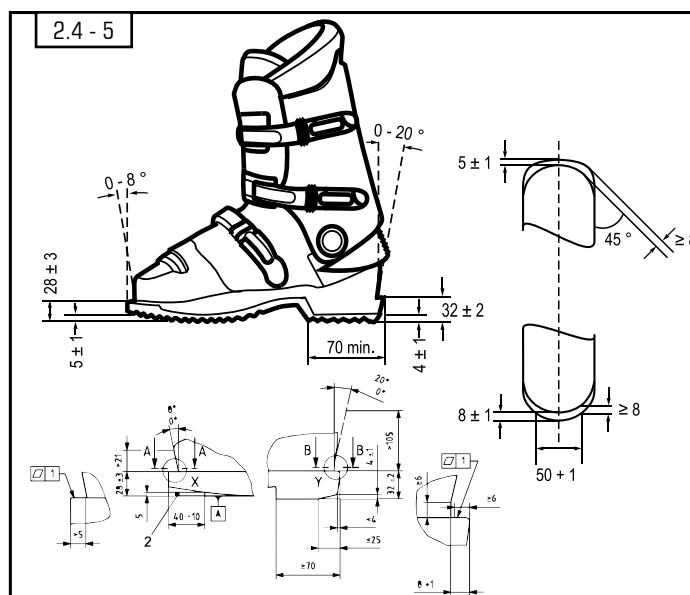
RECORD KEEPING → 15.3



CAUTION !

MARKER KINGPIN, KINGPIN DEMO, MWERKS, MARKER ALPINIST, ALPINIST JR LT, ALPINIST FREE, ALPINIST DEMO, CRUISE and CRUISE DEMO ski bindings are compatible with ski boots in accordance with ISO 9523 with tech inserts according to the Dynafit specification. 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.

ISO 9523 Alpine touring boot for adults (2.4 - 5)



2.4 BOOT INSPECTION:

COMPATIBILITY:

CAUTION !



Incompatible components of the ski boot and ski binding system impair the function of the system and can therefore lead to an increased risk of injury. 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.

- Children/Junior norm boots must never be used with adult bindings.
- The binding model Race Junior 8 is designed for use only with children alpine ski boots according to ISO 5355 type C.
- The models 7.0 and 4.5 can be used with both adult and children ski boots.
- The outsole sets for adults with the product identification "GripWalk®" are 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
 - MN (Multinorm) binding 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.

The GripWalk® outsoles are removable and must be replaced when worn and/or damaged. MARKER recommends as a matter of urgency, particularly before the ski season and after any change of the outsoles to check the correct fit of the ski-boot-binding combination with suitable measuring equipment and, if required, to readjust the system. To label the fitted outsoles, we recommend affixing the enclosed GripWalk sticker to the boot in a clearly visible location.

To identify a ISO 23223 outsole, there must be a marking of ISO 23223 with the additional marking of GripWalk® on the sole.

NOTE:

Please note the information available at www.grip-walk.com.

NOTE:

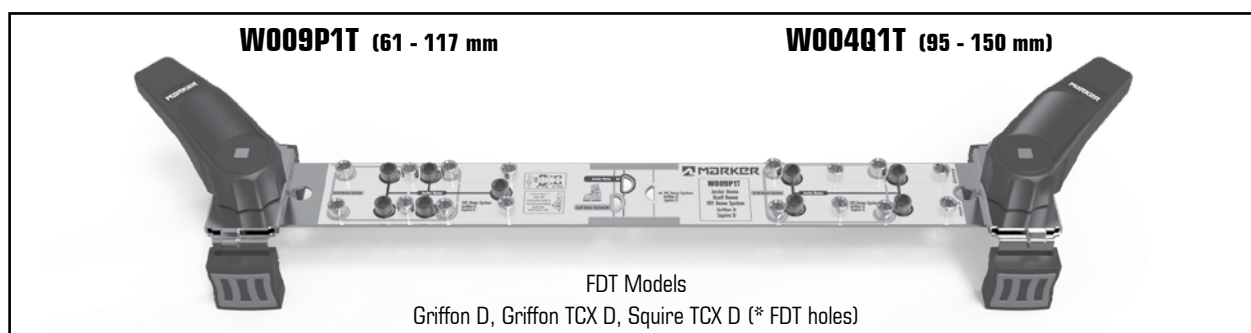
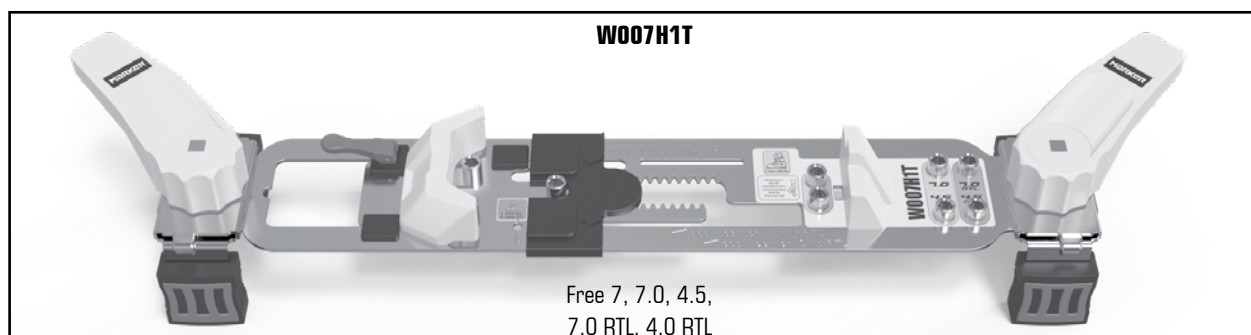
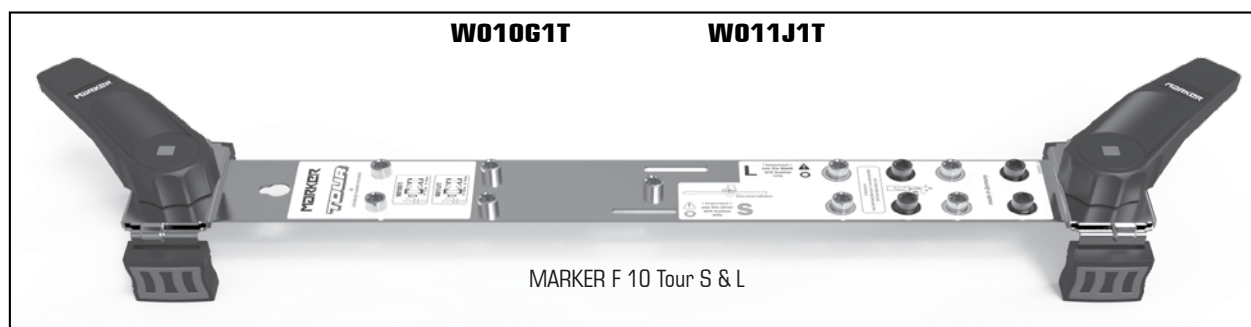
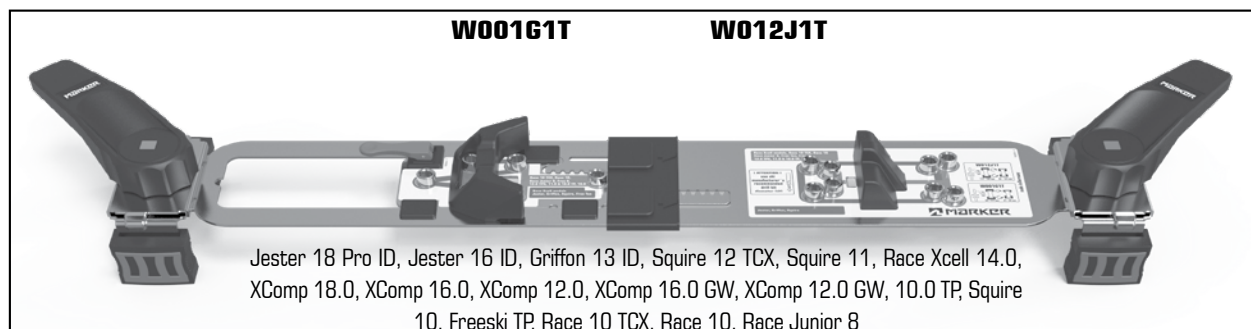
Every alpine binding mounting chapter in this handbook is preceded by a list of suitable boot types, and all of the binding models are also listed in the table "Compatibility boot types/MARKER binding models 24/25": see → 20.3

NOTE:

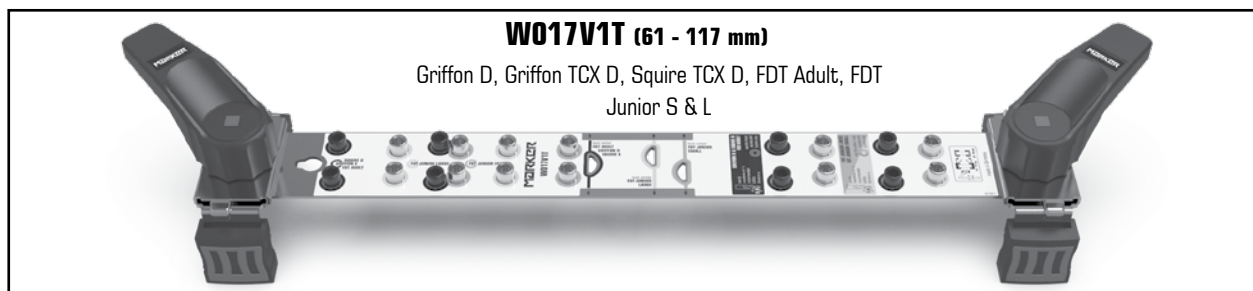
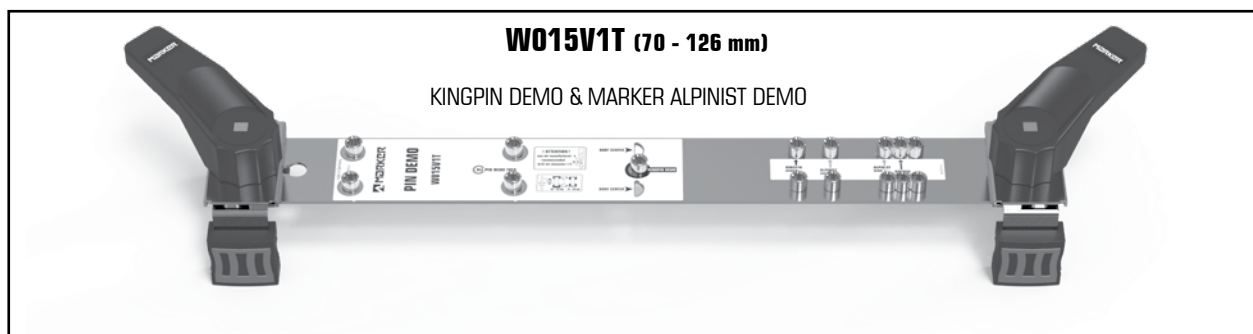
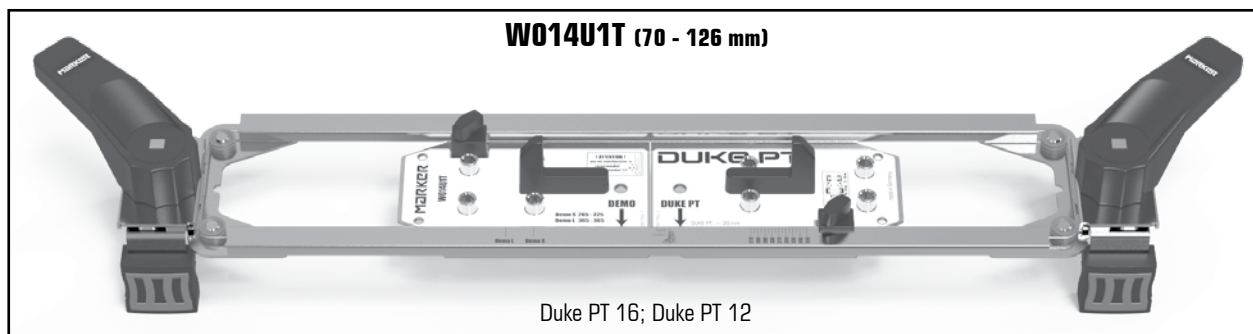
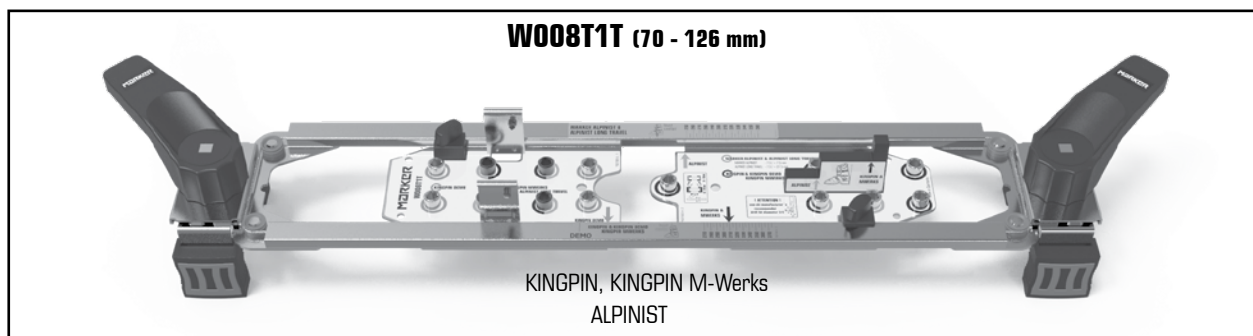
The following markings are affixed to the toe of all Marker alpine bindings:

BINDING MARKINGS			MARKER	
ADULT BINDINGS			JUNIOR BINDINGS	
Race Alpine Adult binding	All mountain binding	Multinorm binding	Race Alpine Children binding	Children / Junior binding
A	GRIP WALK + A	MN + A	C	GRIP WALK + CA
Compatible with:			Compatible with:	
Alpine Adult sole (ISO 5355 A)	Alpine Adult sole (ISO 5355 A)	Alpine Adult sole (ISO 5355 A)	Alpine Children sole (ISO 5355 C)	Alpine Adult sole (ISO 5355 A)
	GripWalk Adult sole (ISO 23223 A)	GripWalk Adult sole (ISO 23223 A)		GripWalk Adult sole (ISO 23223 A)
		Touring Adult sole (ISO 9523)		Alpine Children sole (ISO 5355 C)
				GripWalk Children sole (ISO 23223 C)

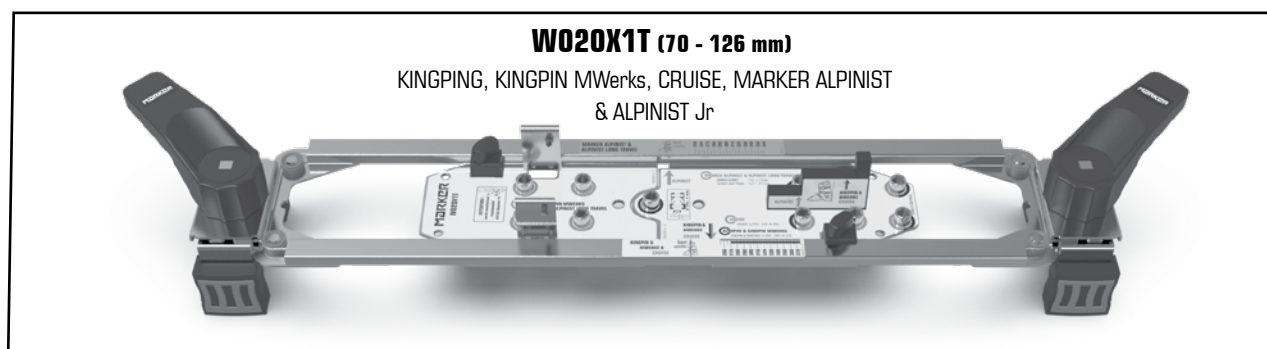
3.1 INSTALLATION TOOLS FOR MARKER BINDINGS:



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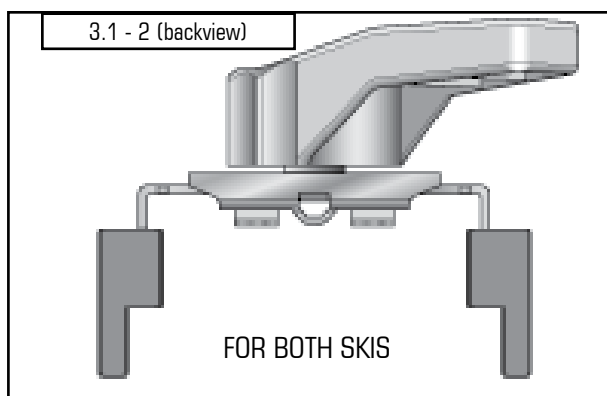
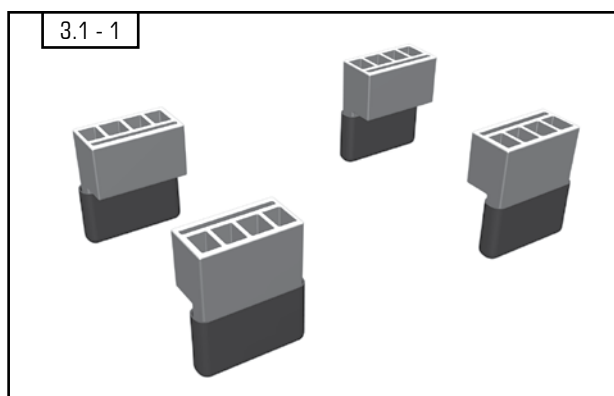


REMARK:

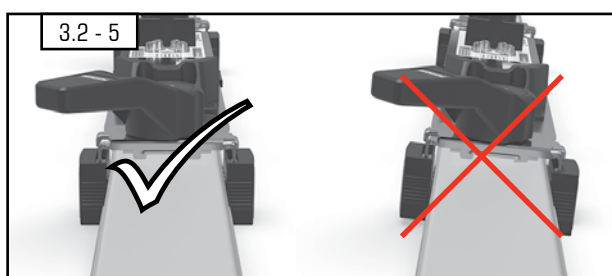
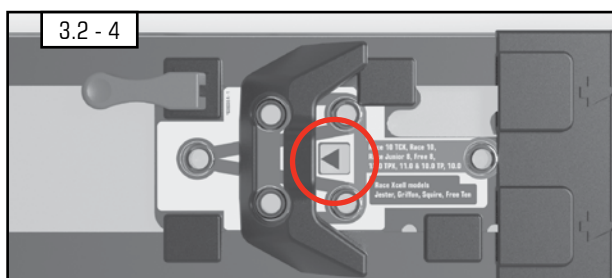
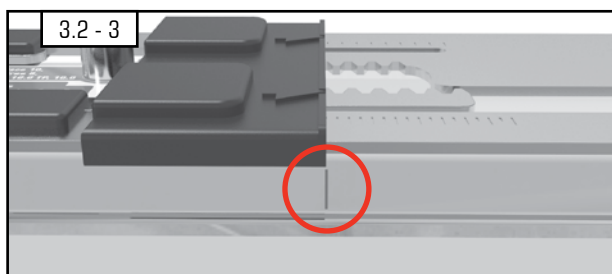
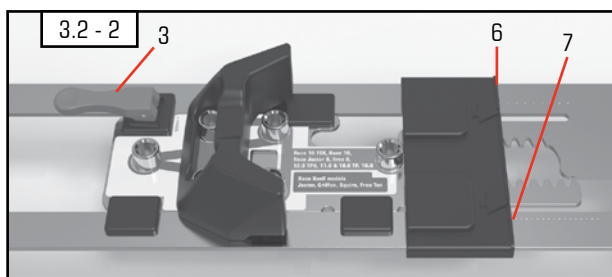
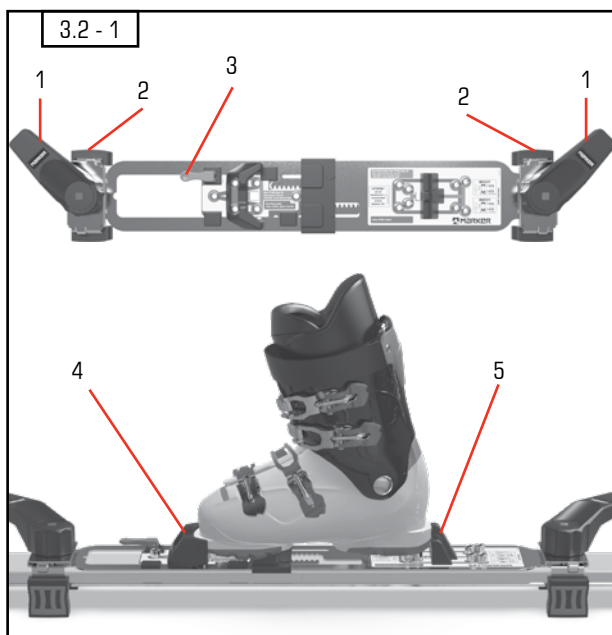
For wide skis up to 148 mm MARKER offers an adapter kit for installation tools. (3.1 - 1)
(mounting tool adapter wide skis 148 mm; Art. Nr.: W001J1A)

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.

WITHOUT SKI BOOT (3.2 - 2):

- Ask for the boot sole length or size of the ski boot (marked on the boot or measure it).
- Adjust the gauge of the sole length on scale (6) or (7).
- Close the locking lever (3).

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)

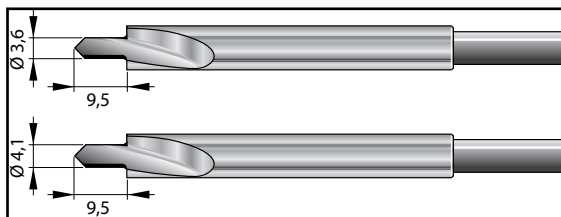


IMPORTANT !

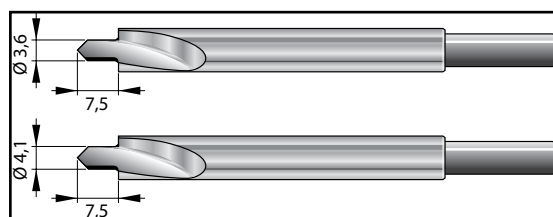
Before drilling, check that the installation tool is flush and centered on the ski. (3.2 - 5) Take particular care with skis that have angled sidewalls, extreme sidecuts or external plates.

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

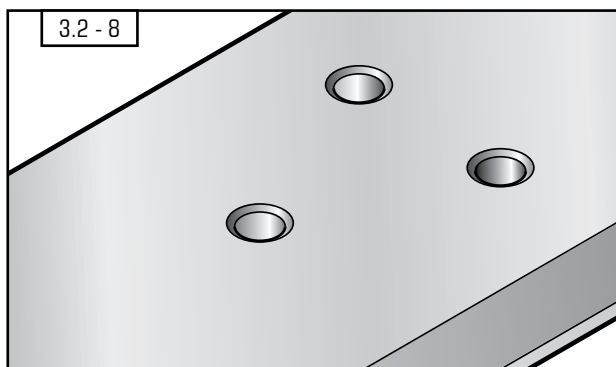
DRILLING:

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



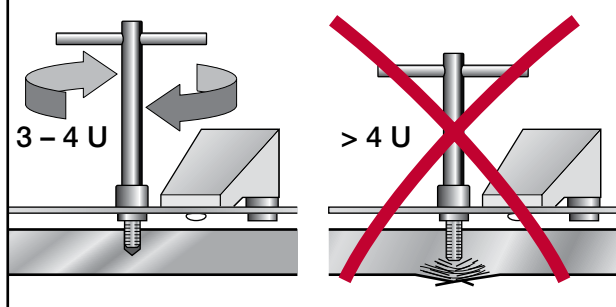
TAPPING:

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

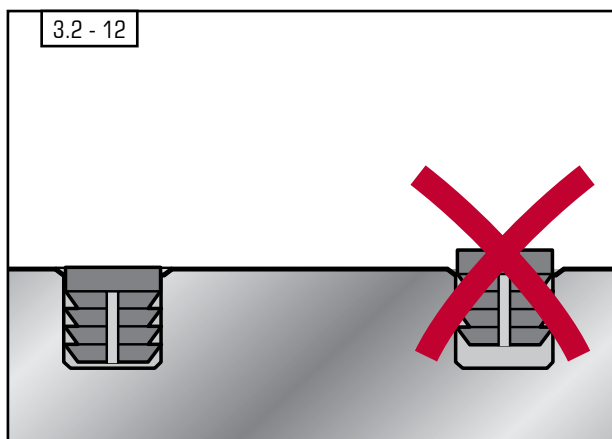
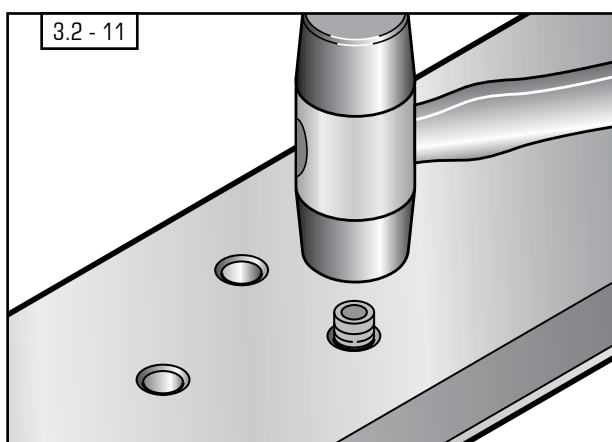
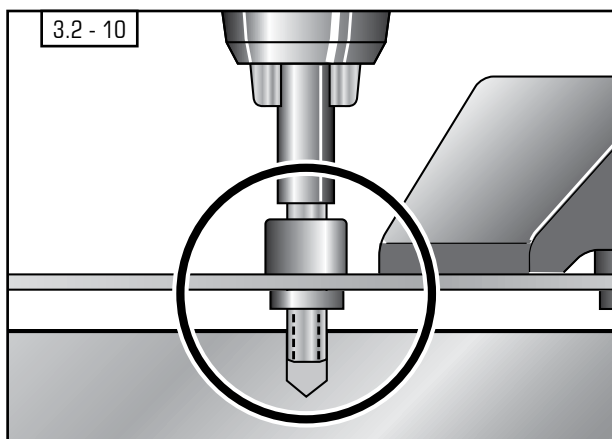


IMPORTANT !

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 → 20.1

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) !

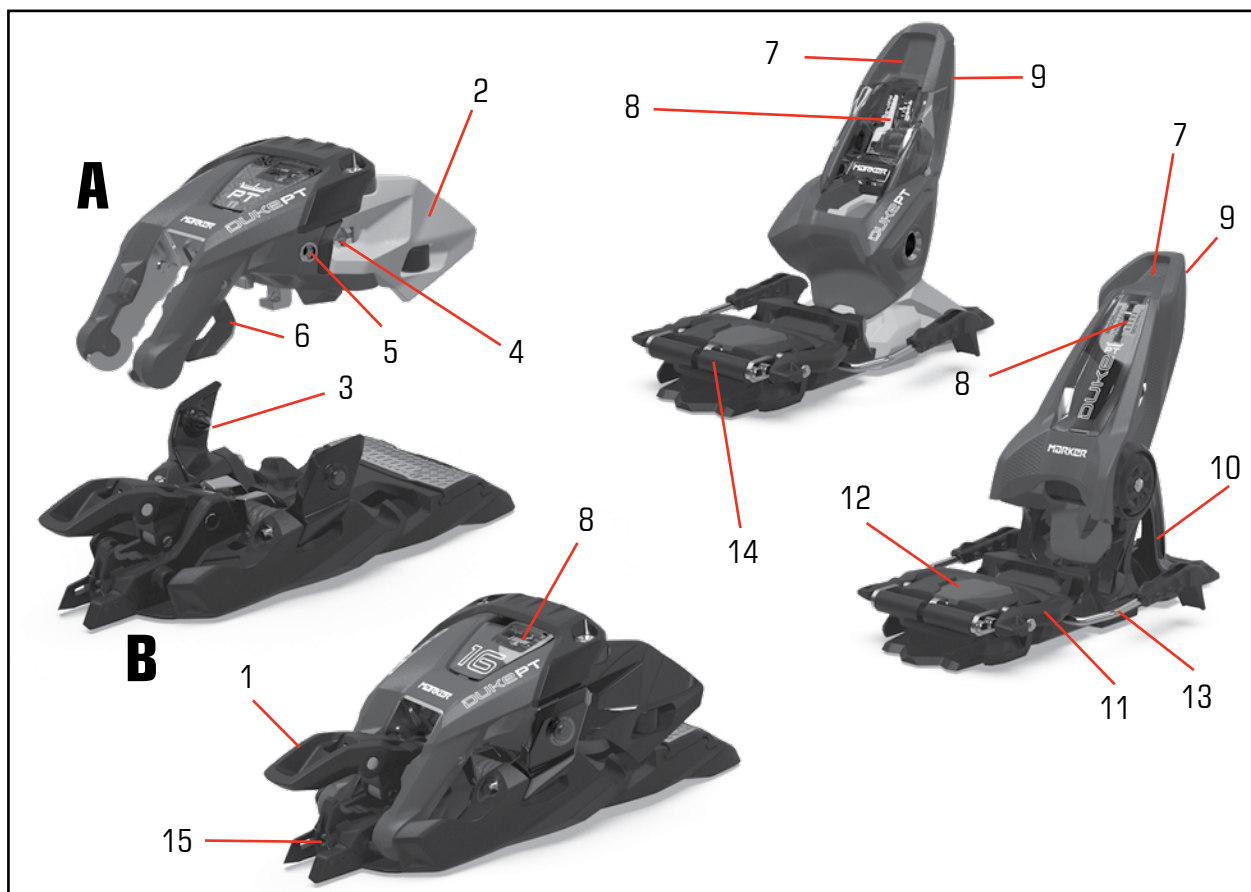
- Re - install the binding.



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 scala 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

REMARK:

MARKER DUKE PT bindings are designed for the following standard boot soles:

- Touring ski boots for adults ISO 9523
- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"

MN



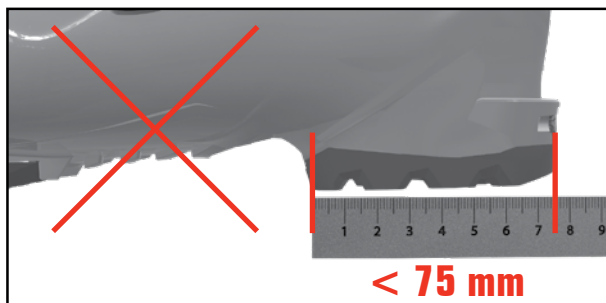
CAUTION !

Check the heel length of touring boots: For some touring boot models with a heel length < 75 mm, it is possible to step into the binding despite the brake locking lever being swivelled out. These touring boots may therefore not be used with Duke PT bindings.

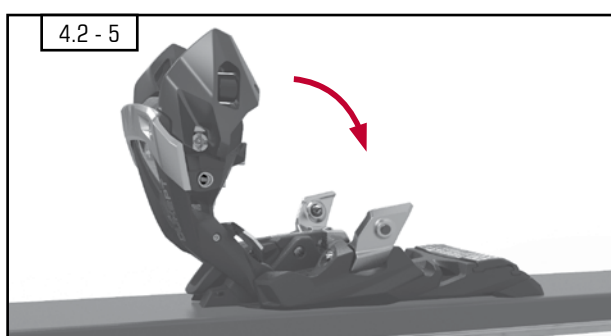
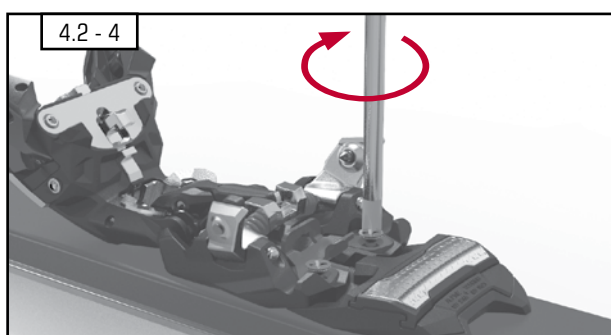
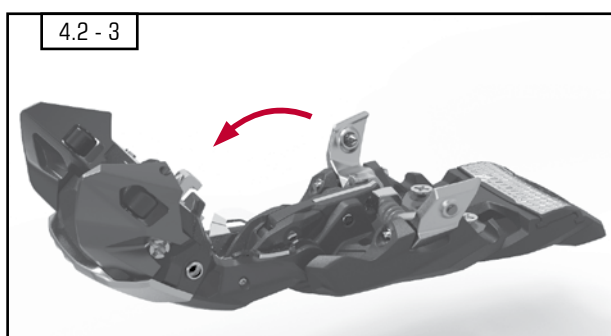
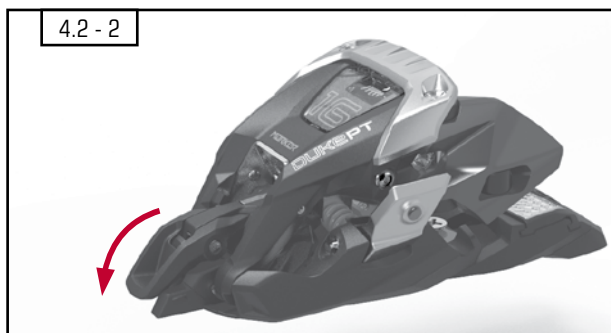
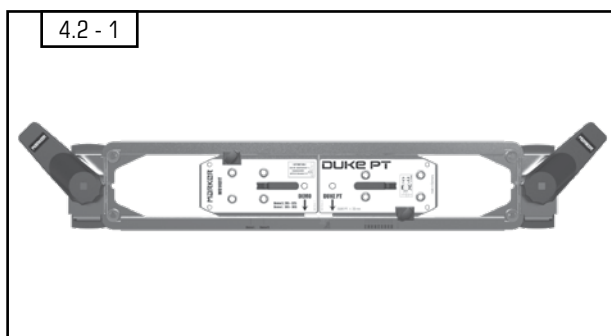


IMPORTANT !

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)

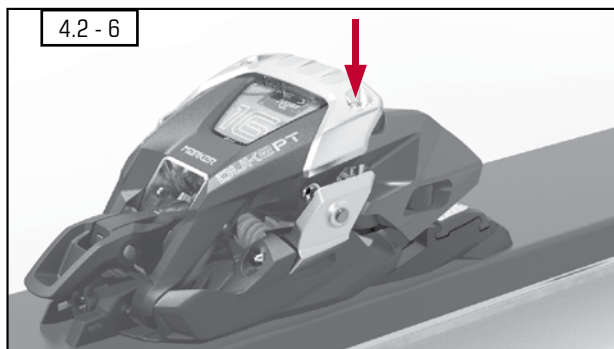
- Fold the toe "Ski" forward (4.2 - 3).

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

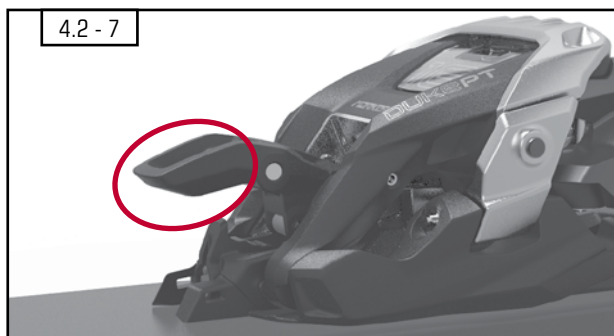
- Tighten the screws lightly, then firmly (4.2 - 4).

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

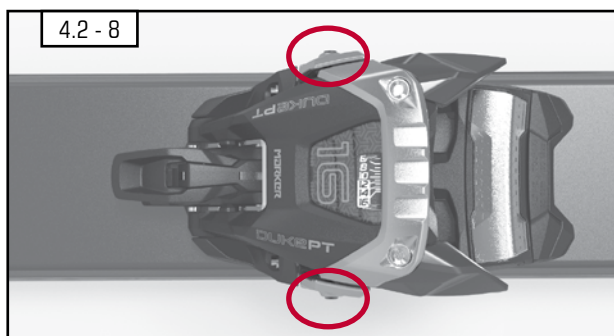
4.2 INSTALLATION OF MARKER DUKE PT



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

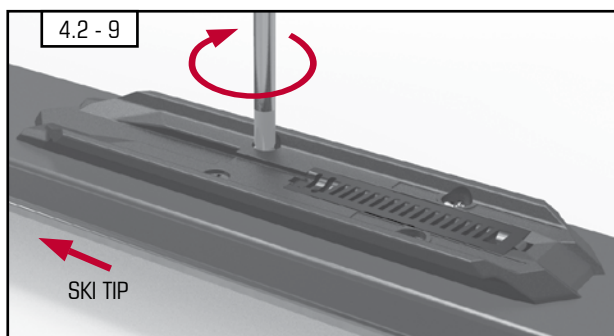


- The adjustment lever must snap into the "Ski" position and the pin locking bolts have to engage in the toe locking axis (4.2 - 7 and 4.2 - 8).



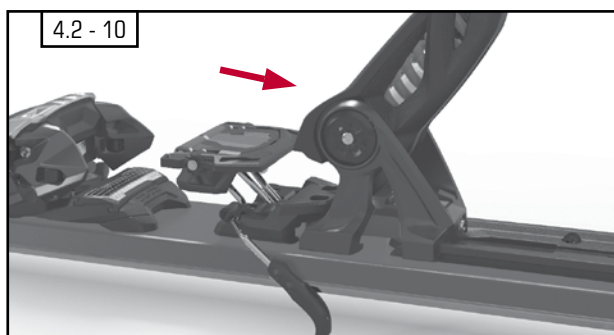
INSTALLING THE HEEL PLATE:

- 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.

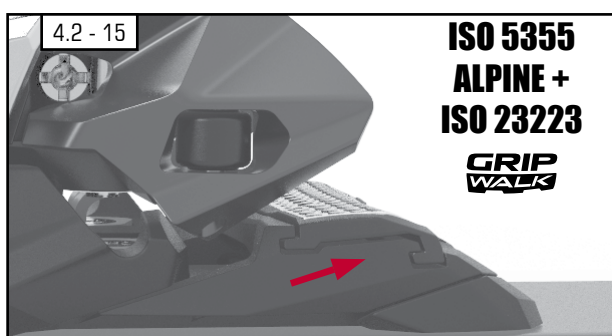
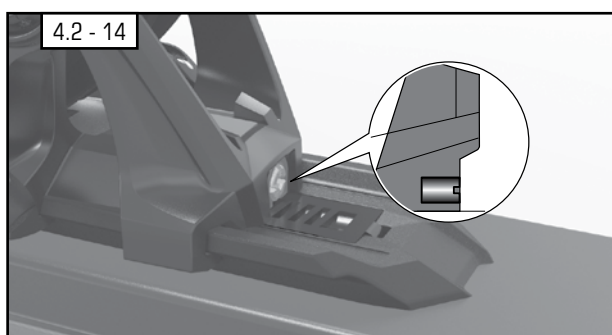
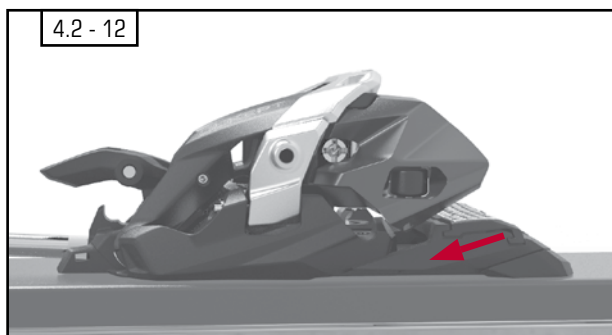
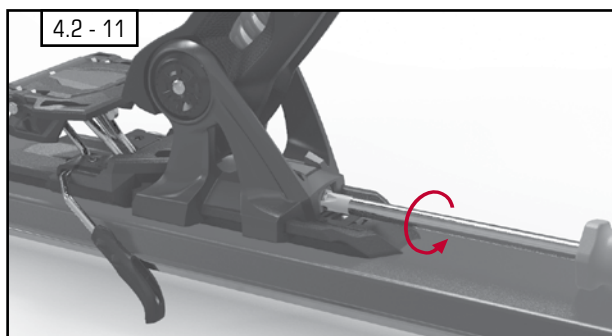
- Slide the heel back until it stops (4.2 - 10).



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 ISO 5355 and
Alpine ski boots for adults ISO 23223 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 ISO 9523
- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"

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

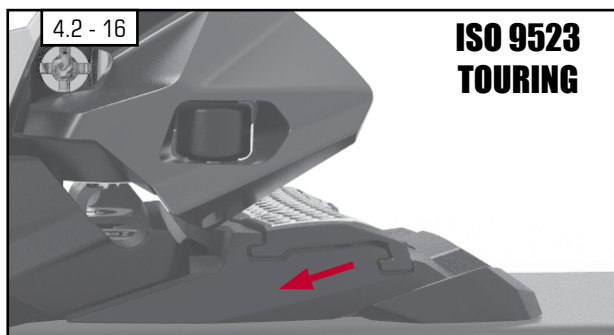
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing (4.2 - 14).

- 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 ISO 5355 Alpine ski boots for adults and ISO 23223 Alpine ski boots for adults with the additional marking "GripWalk®" (4.2 - 15).

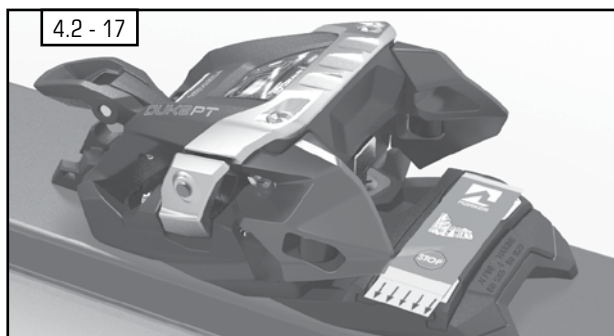
4.2 INSTALLATION OF MARKER DUKE PT



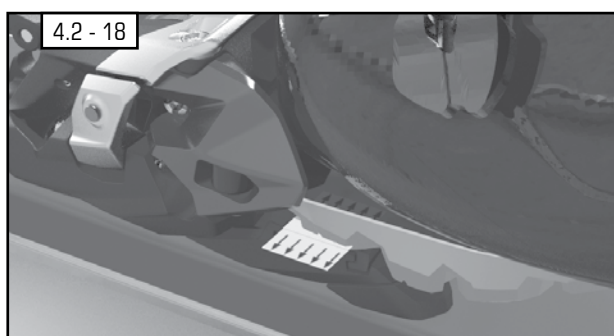
- When the gliding AFD is adjusted to the front / lower position, the height conforms to the ISO 9523 (Touring boots) (4.2 - 16).

REMARK:

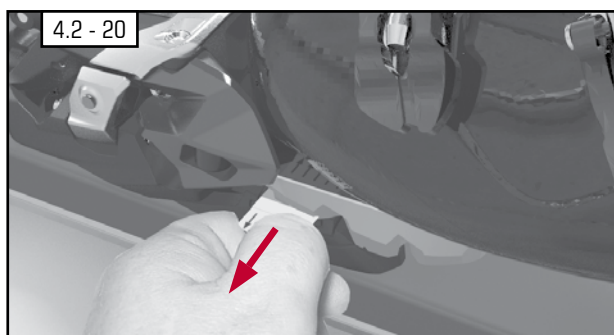
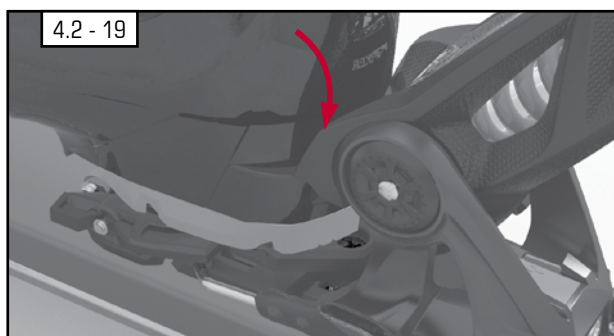
When mounting the toe to the height adjustment "touring" make sure that you fit the enclosed "Touring" indication sticker to the ski.



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

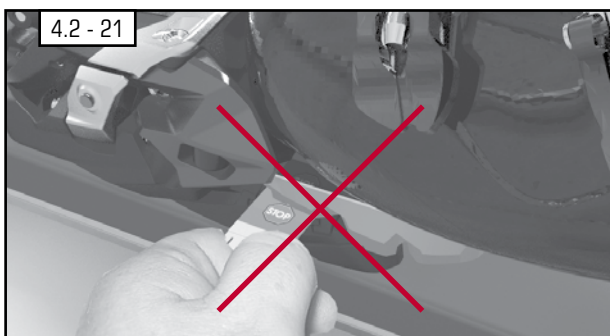


- Place the ski boot into the binding and close it. (4.2 - 18 and 4.2 - 19)

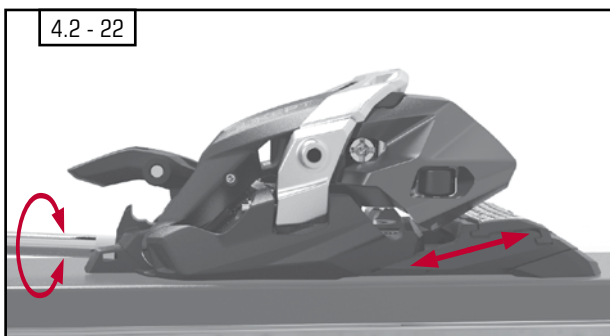


- Pull out the lower part of the test strip carefully (4.2 - 20).

4.2 INSTALLATION OF MARKER DUKE PT



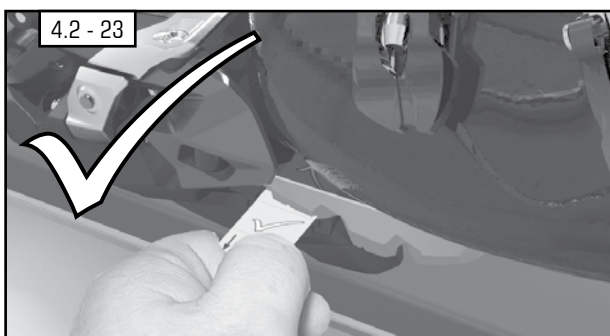
- Stop if the complete test strip moves and the red marked area becomes visible, the gap between gliding AFD and boot sole is not correct (4.2 - 21).



- 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).

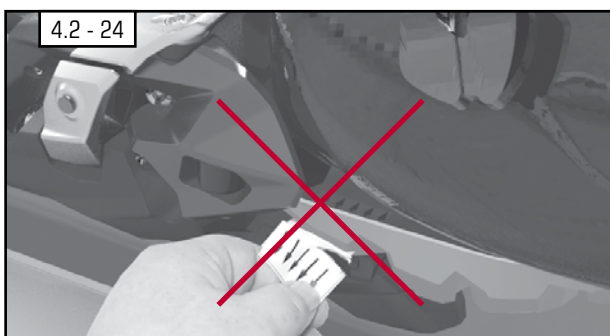
Turning the adjustment screw clockwise moves the AFD gliding plate down.

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.

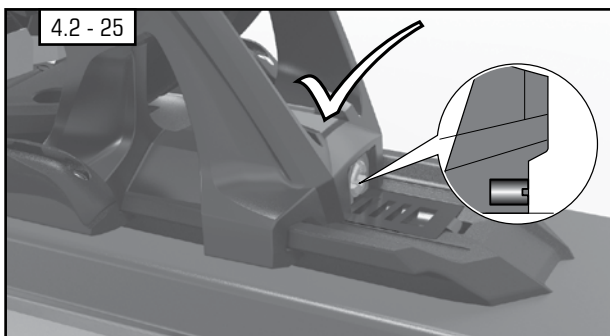


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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.

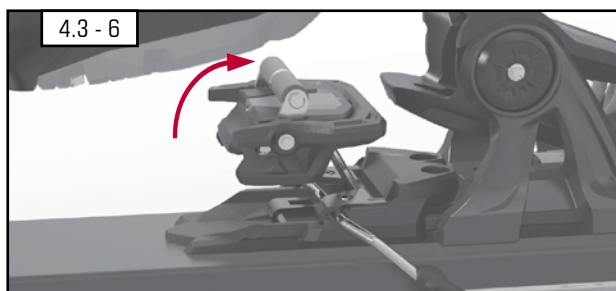
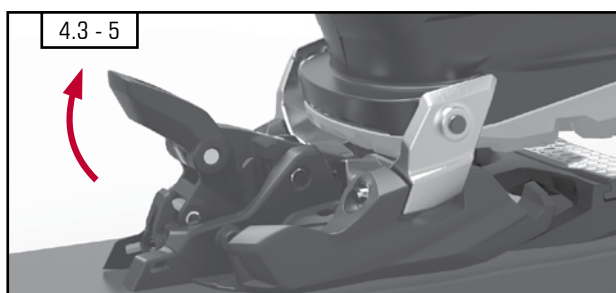
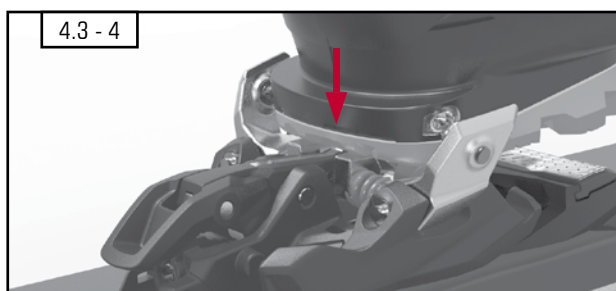
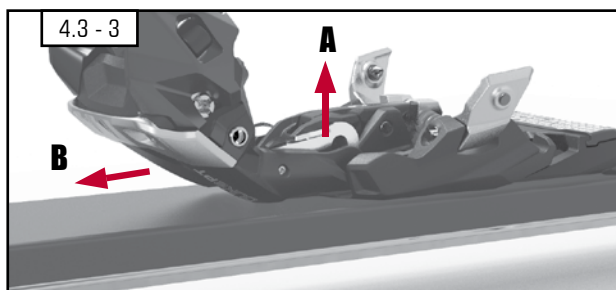
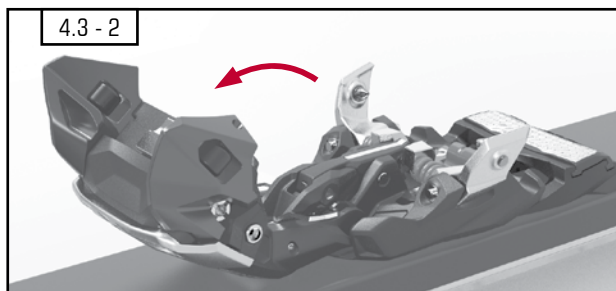
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 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 - INFORMATION 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 !

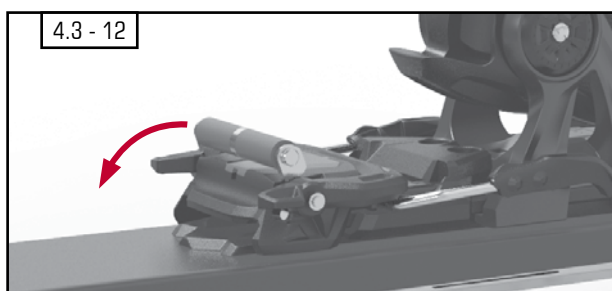
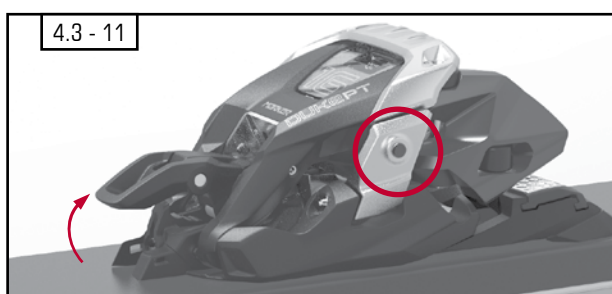
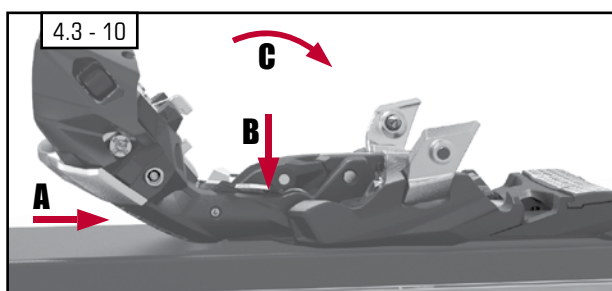
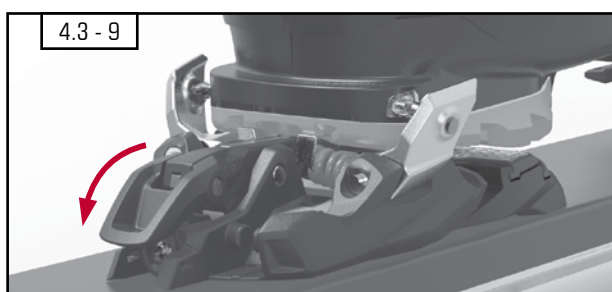
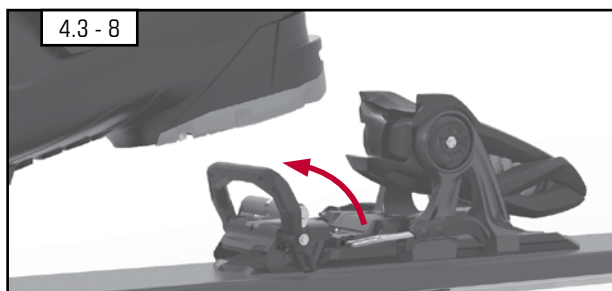
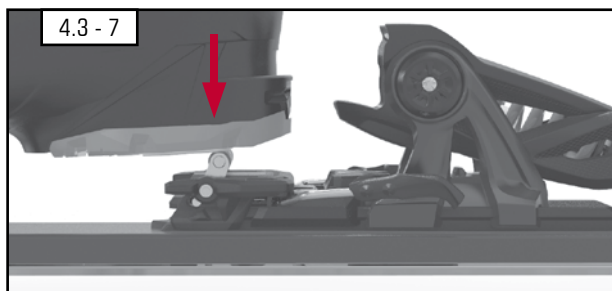
The DUKE PT binding model has removable parts (toe "Ski"), which are absolutely necessary for a descent with the binding. Therefore, make sure that you store these parts securely so they cannot be lost after you have removed them.

- 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 - INFORMATION 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:

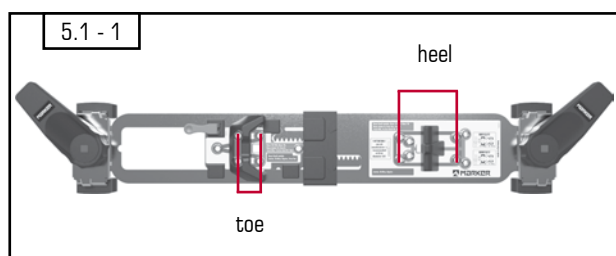
MARKER offers special crampons for the DUKE PT models:

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 → 16.7

5.1 INSTALLATION OF MARKER JESTER PRO & JESTER & GRIFFON

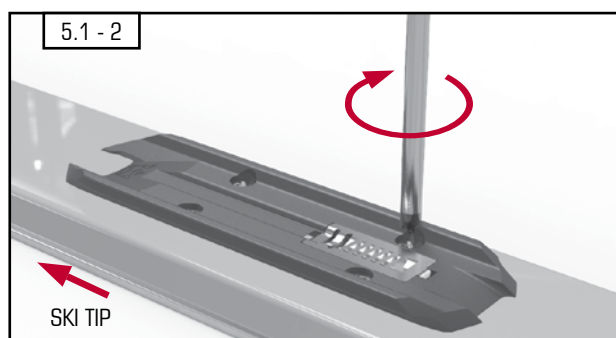


REMARK: (→ 20.3)

The binding models Jester Pro & Jester & Griffon are designed for the following standard boot soles:

MN

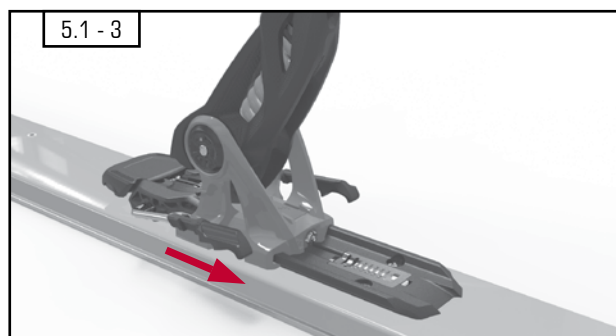
- Touring ski boots for adults ISO 9523
- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"



DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF THE BINDING INSTALLATION TOOLS
→ 3.2

- Place the MARKER universal installation tool W001G1T or W012J1T (5.6 - 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.

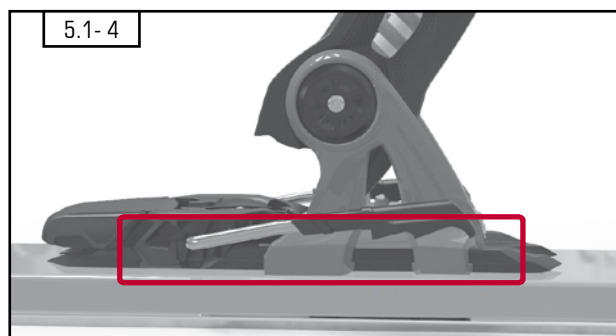


REMARK:

See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE HEEL :

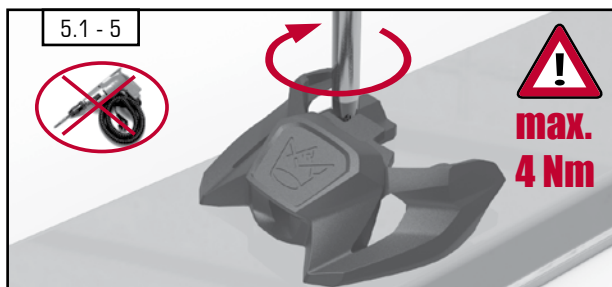
- Install the heel plate with the 4 pre - installed screws (5.1 - 2). Tighten the screws lightly, then firmly.
- Slide the heel onto the heel plate, starting from the front. (5.1 - 3)
- Slide the heel back until it stops. (5.1 - 3)



CAUTION !

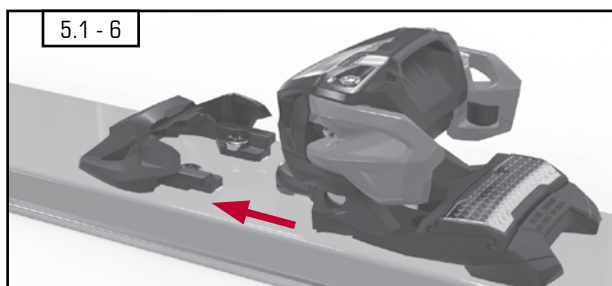
Ensure that the heel is fully and uniformly sliding onto the heel plate. (5.1 - 4)

5.1 INSTALLATION OF MARKER JESTER PRO & JESTER & GRIFFON

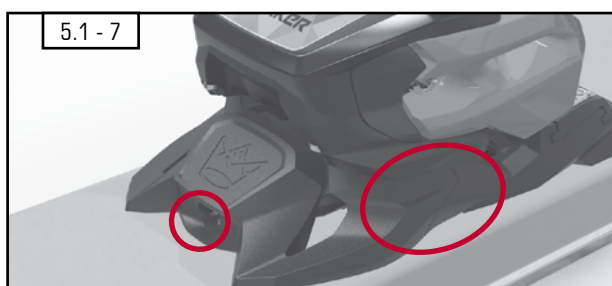


INSTALLING THE TOE:

- Install the front plate with the pre - installed screws in the front holes. Tighten the screws lightly, then firmly (5.1 - 5).

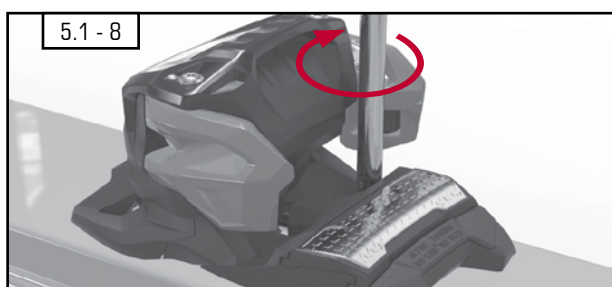


- Slide the toe onto the front plate from the rear (5.1 - 6).



CAUTION !

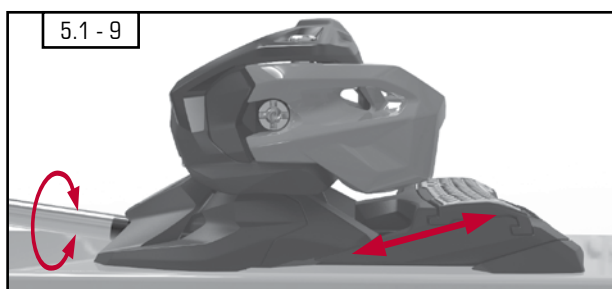
Ensure that the toe is fully and uniformly sliding into the front plate attachments and the height adjustment screw is mounted correct to the front plate. (5.1 - 7)



- Install the toe with the enclosed screws. Tighten the screws lightly, then firmly (5.1 - 8).

AFD HEIGHT ADJUSTMENT

- The height of the AFD gliding plate must be adjusted to the height of the boot sole. (5.1 - 9)



REMARK:

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

Alpine ski boots for adults according to ISO 5355 and
Alpine ski boots for adults ISO 23223 with the additional
marking "GripWalk®"



- When the gliding AFD is adjusted to the rear / upper position, the height conforms to the ISO 5355 (Alpine boots) and Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®" (5.6 - 10)

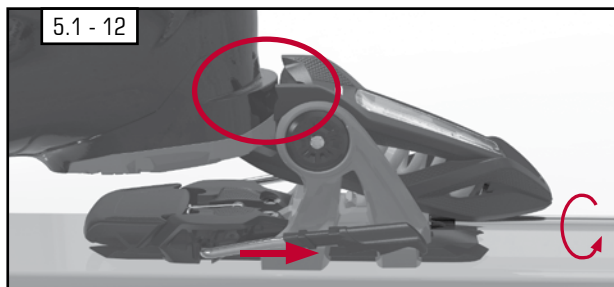
5.1 INSTALLATION OF MARKER JESTER PRO & JESTER & GRIFFON



- When the gliding AFD is adjusted to the front / lower position, the height conforms to the ISO 9523 (Touring boots) (5.1 - 11)

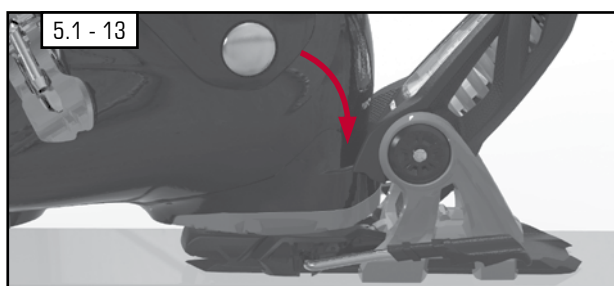
REMARK:

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



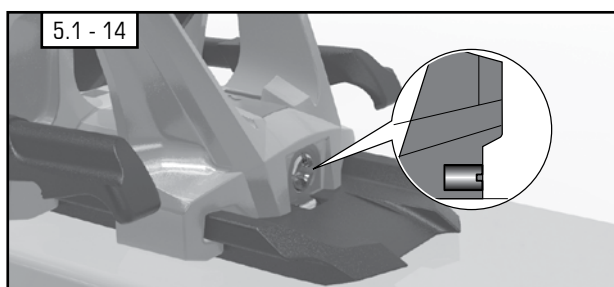
POSITIONING THE HEEL:

- 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. (5.1 - 12).



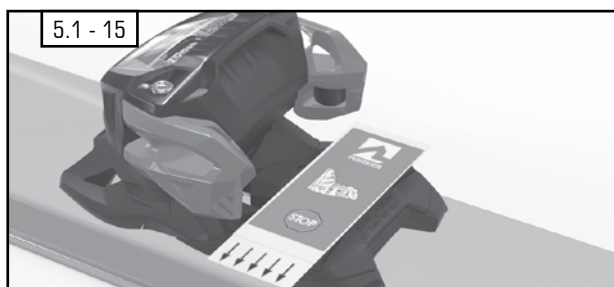
CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it. (5.1 - 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. (5.1 - 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. (5.1 - 15).

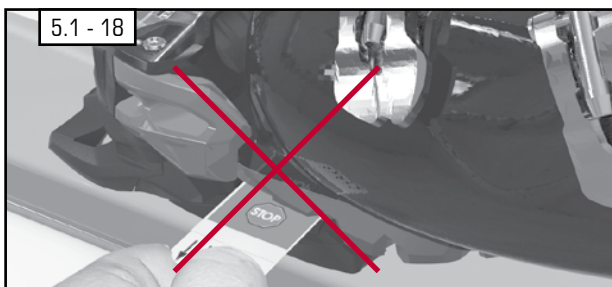


- Place the ski boot into the binding and close it. (5.1 - 16)

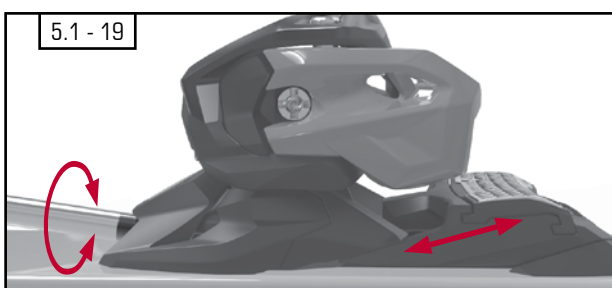
5.1 INSTALLATION OF MARKER JESTER PRO & JESTER & GRIFFON



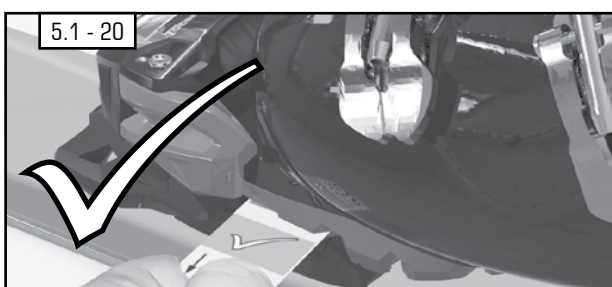
- Pull out the lower part of the test strip carefully. (5.1 - 17)



- 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).



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.

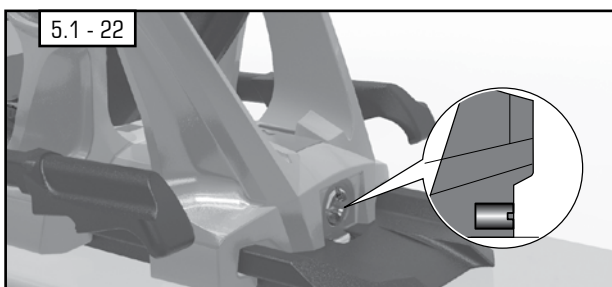


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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.

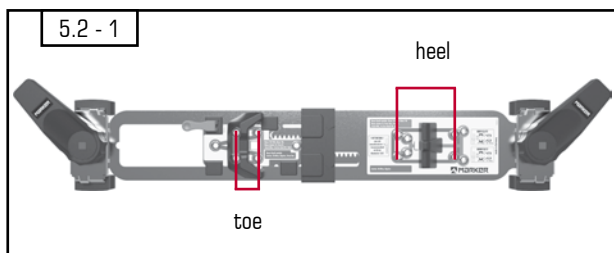
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 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

5.2 INSTALLATION OF MARKER SQUIRE 12 TCX & SQUIRE 11



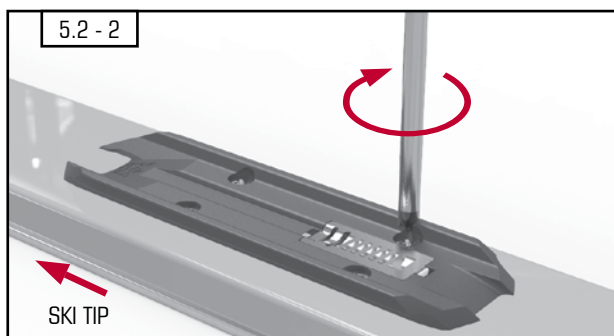
REMARK:

This mounting instruction is valid for the Squire 12 TCX and Squire 11 models.

REMARK: (→ 20.3)

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

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"



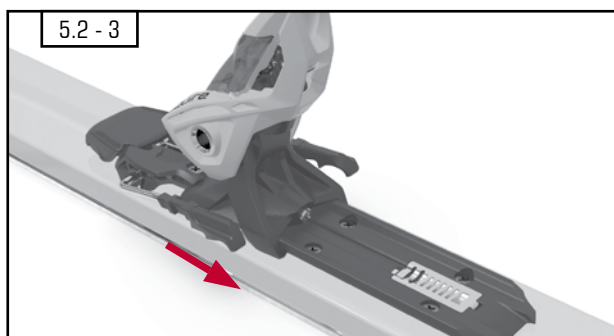
DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF THE BINDING INSTALLATION TOOLS
→ 3.2

- Place the MARKER universal installation tool W001G1T or W012J1T (5.7 - 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.

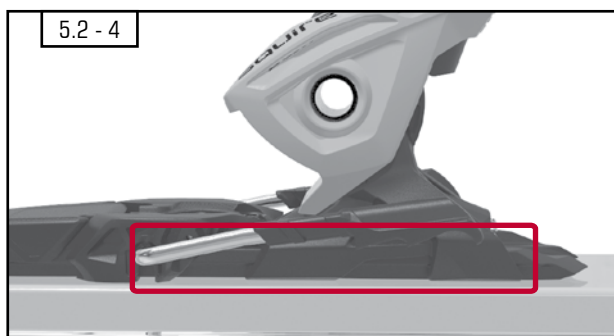
REMARK:

See DRILLING INSTRUCTIONS → 3.2



INSTALLING THE HEEL :

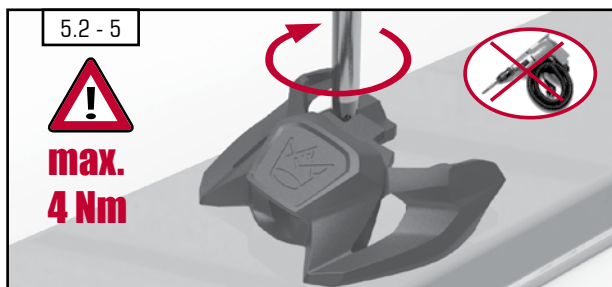
- Install the heel plate with the 4 pre - installed screws (5.2 - 2). Tighten the screws lightly, then firmly.
- Slide the heel onto the heel plate, starting from the front. (5.2 - 3)
- Slide the heel back until it stops.



CAUTION !

Ensure that the heel is fully and uniformly sliding onto the heel plate. (5.2 - 4)

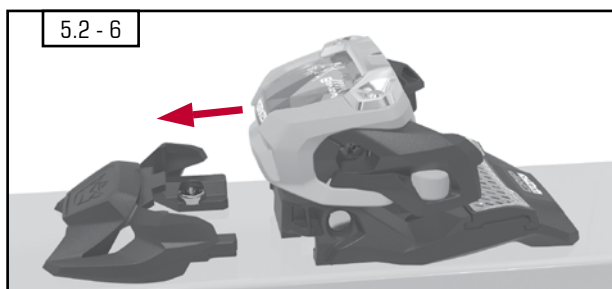
5.2 INSTALLATION OF MARKER SQUIRE 12 TCX & SQUIRE 11



INSTALLING THE TOE:

- Install the front plate with the pre - installed screws in the front holes. Tighten the screws lightly, then firmly (5.2 - 5).

- Slide the toe onto the front plate from the rear (5.2 - 6).



CAUTION !

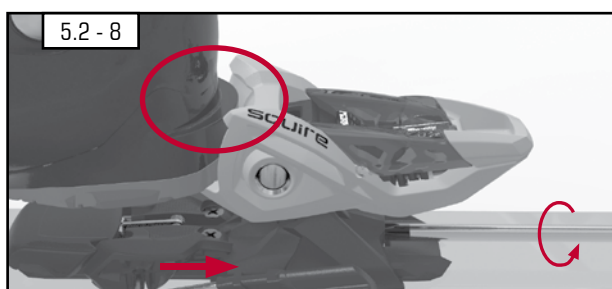
Ensure that the toe is fully and uniformly sliding into the front plate attachments.

- Install the toe with the enclosed screws. Tighten the screws lightly, then firmly (5.2 - 7).



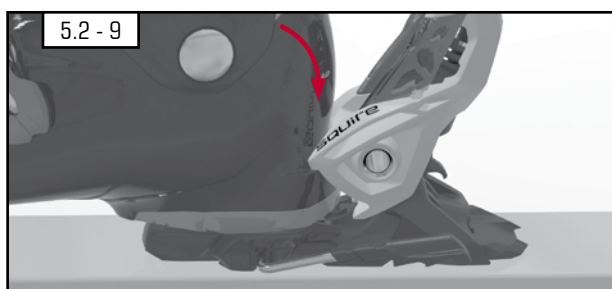
POSITIONING THE HEEL:

- 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. (5.2 - 8).



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 - 9 & 5.2 - 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.

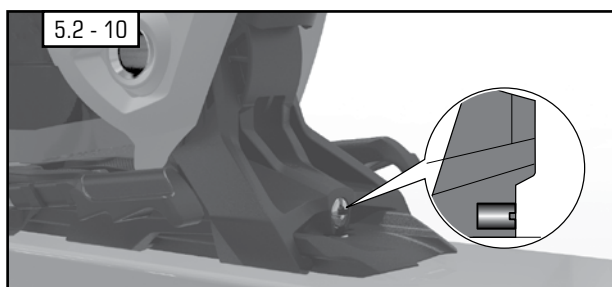


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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.

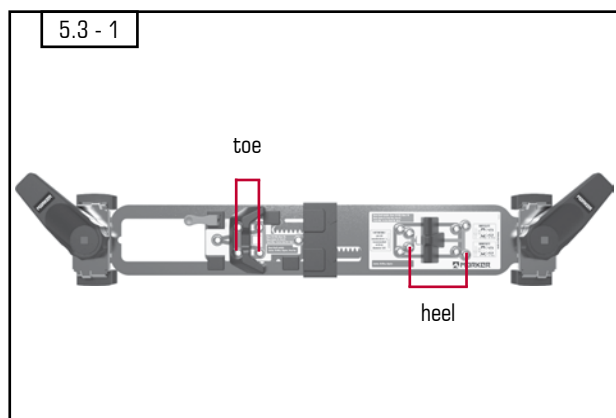
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



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

5.3 INSTALLATION OF SQUIRE 10 MODELS



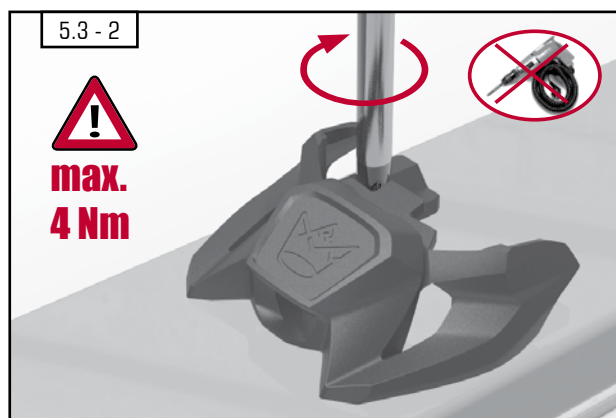
REMARK: (→ 20.3)

The binding model Squire 10 is designed for the following standard boot soles:

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"

DRILLING THE ATTACHMENT HOLES:

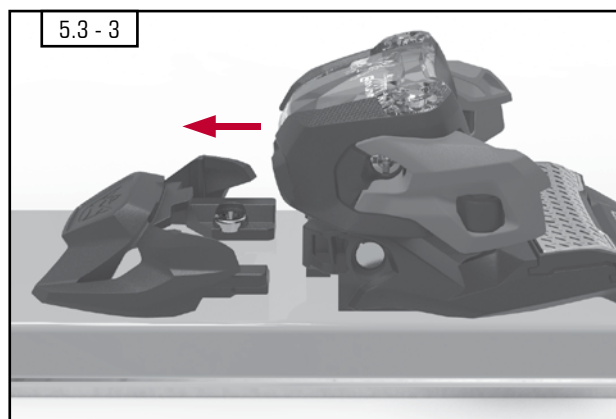
See ADJUSTMENT OF THE INSTALLATION TOOLS. → 3.2



- Place the MARKER universal installation tool W001G1T or W012J1T (5.8 - 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 green marked drill bushings.
- Remove installation tool from the ski.

REMARK:

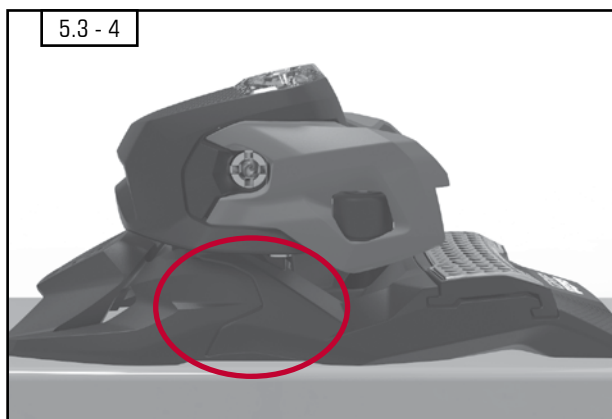
See DRILLING INSTRUCTIONS → 3.2



INSTALLING THE TOE:

- Install the front plate with the pre - installed screws in the front holes. Tighten the screws lightly, then firmly (5.3 - 2).
- Slide the toe onto the front plate from the rear (5.3 - 3).

5.3 INSTALLATION OF SQUIRE 10 MODELS



CAUTION !

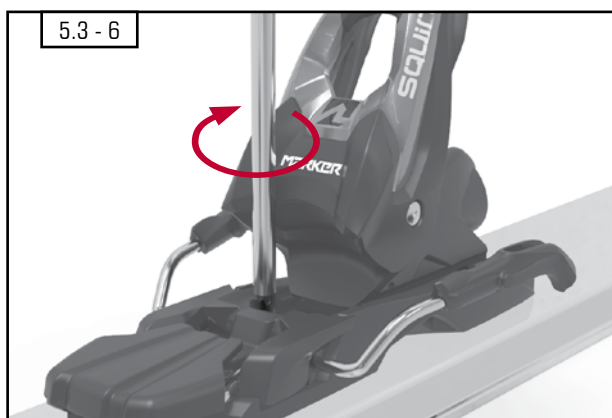
Ensure that the toe is fully and uniformly sliding into the front plate attachments (5.3 - 4).

- Install the toe with the enclosed screws. Tighten the screws lightly, then firmly (5.3 - 5).



INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- With downward pressure, tighten the screws lightly, then firmly. (5.3 - 6)



CHECK FORWARD PRESSURE:

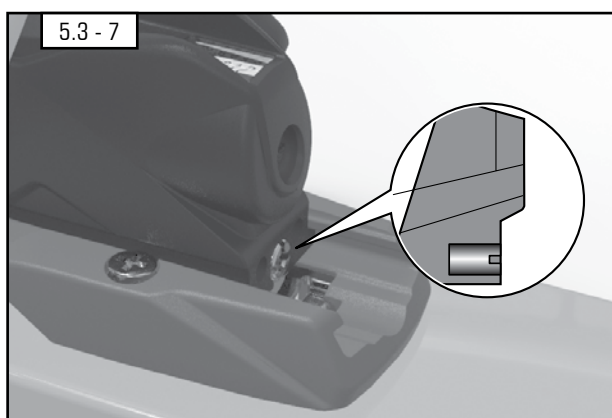
- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing. (5.3 - 7)
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot, then re - insert it into the 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

6.1 INSTALLATION OF 10.0 TP GRIPWALK



REMARK:

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

REMARK: (→ 20.3)

The binding models 10.0 TP GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"

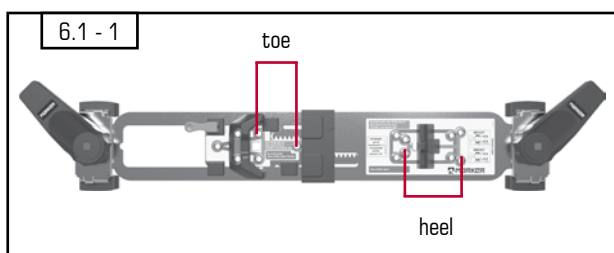
DRILLING THE ATTACHMENT HOLES:

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:

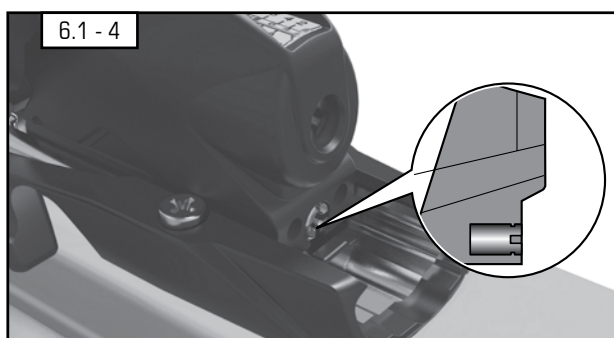
- Place the toe with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (6.1 - 2)

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.

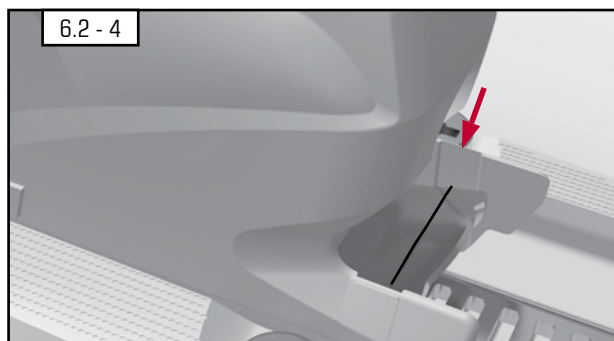
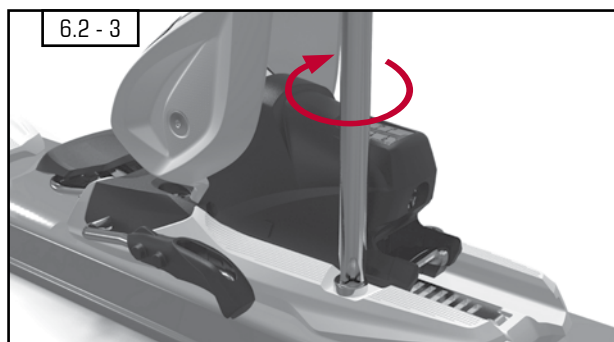
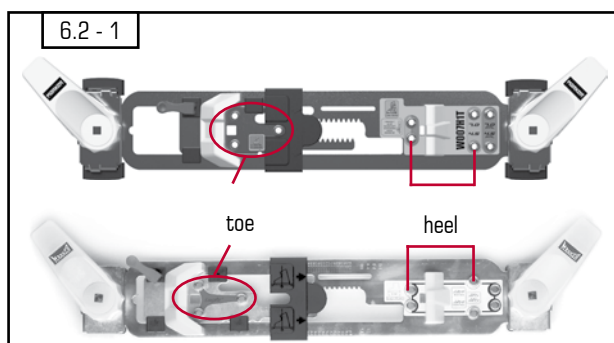
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 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: (→ 20.3)

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

- Alpine ski boots for adults ISO 5355 type A
- Junior ski boots ISO 5355 (type C)
- Alpine ski boots for children ISO 23223 (type C) with the additional marking "GripWalk®"
- Alpine ski boots for adults ISO 23223 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 MARKER COMPETITION MODELS



For racers MARKER offers special competition ski bindings with higher release values.



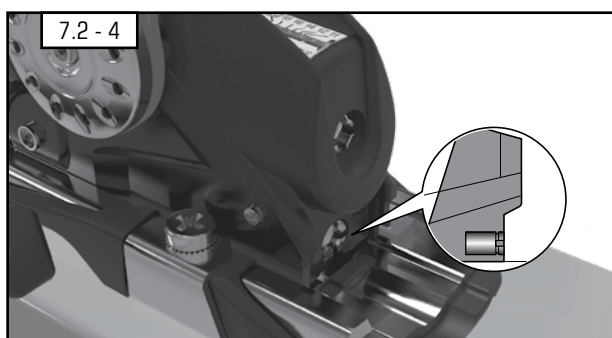
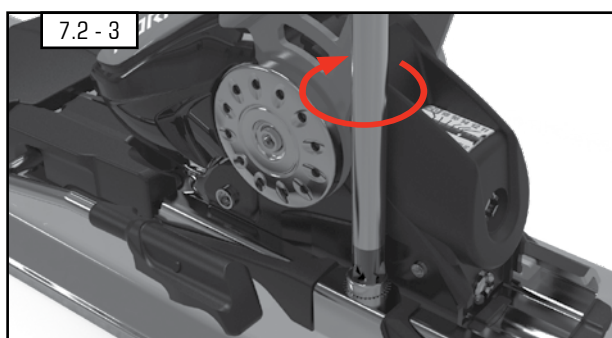
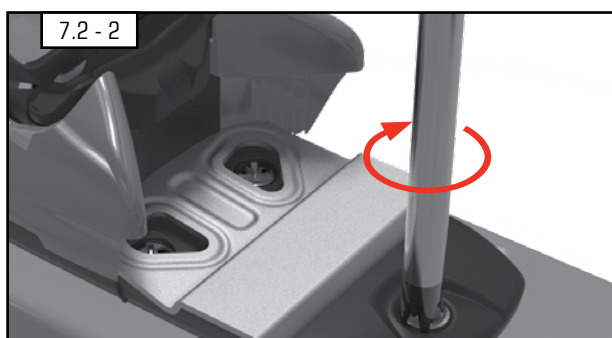
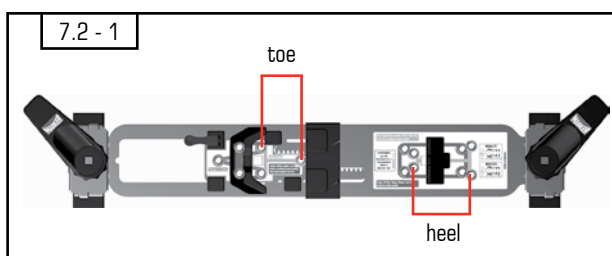
IMPORTANT !

Point out to your customers that these release values are outside the values specified in - ISO 11088.

Release values above 10 do not comply with the standard, the use of such a competition ski binding is therefore at the skier's own risk.

see → **13.1** Special cases

7.2 INSTALLATION OF COMP 30 & COMP 20



REMARK: (→ 20.3)

The binding models Comp 30 and Comp 20 are designed for use only with Alpine ski boots for adults ISO 5355 type A.

REMARK: (→ 13.1)

See special competition bindings

DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T or W012J1T (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 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, close the binding.
 - 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.

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 INFORMATION FOR THE SKIER!

Explain that the **MARKER COMP 30** ski binding is not ISO-certified. It is a special competition binding with a high release value range that is outside the ISO initial indicator values on the ISO adjustment chart.

7.3 INSTALLATION OF COMP/COMP GRIPWALK & XCOMP GRIPWALK



REMARK: (→ 20.3)

The binding models Comp 16 and Comp 12 are designed for use only with Alpine ski boots for adults DIN ISO 5355 type A.

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

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"

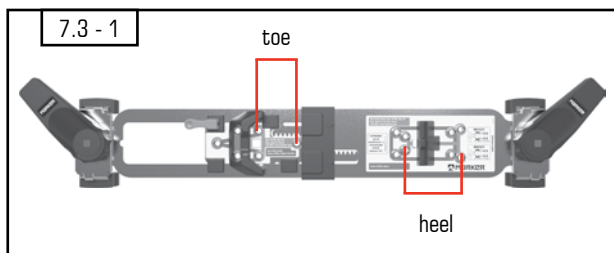
DRILLING THE ATTACHMENT HOLES:

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 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.

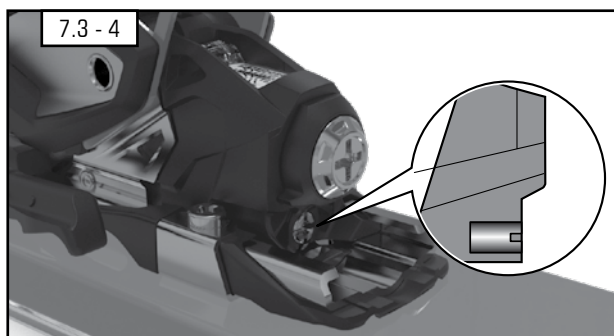
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

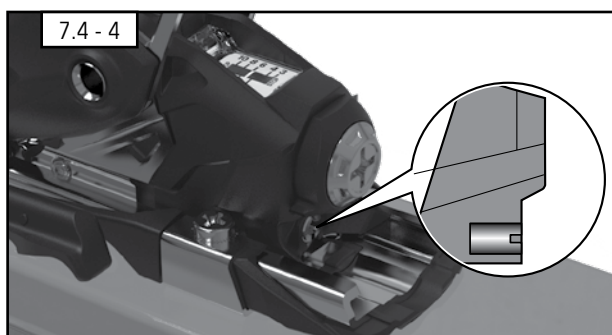
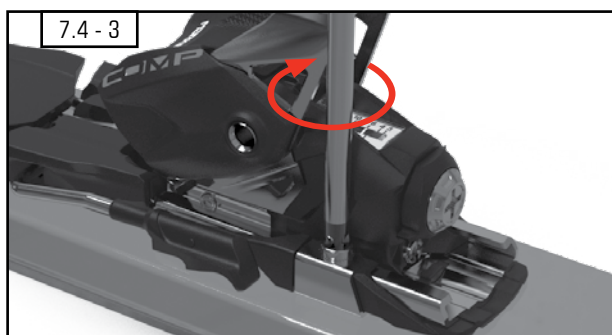
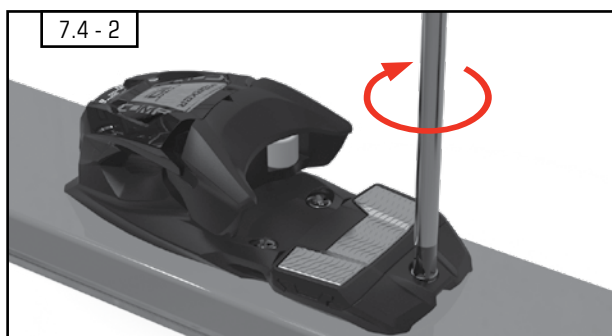
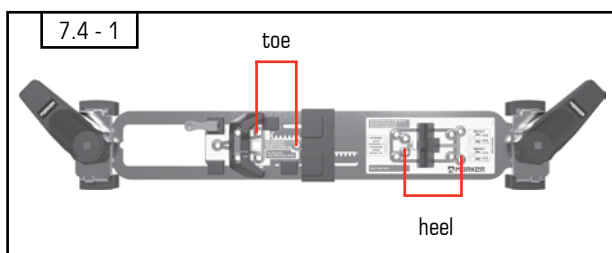


CAUTION !

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 COMP 10 TCX & COMP 10



REMARK: (→ 20.3)

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

DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T (7.4 - 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 (7.4 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (7.4 - 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. (7.4 - 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:

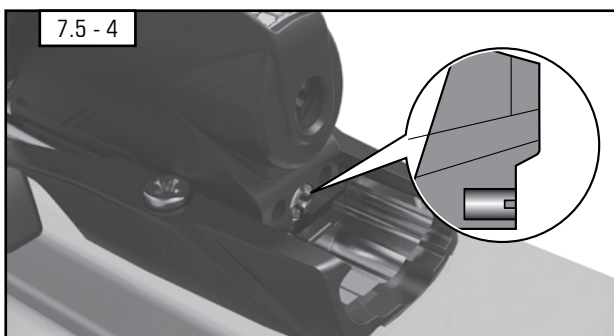
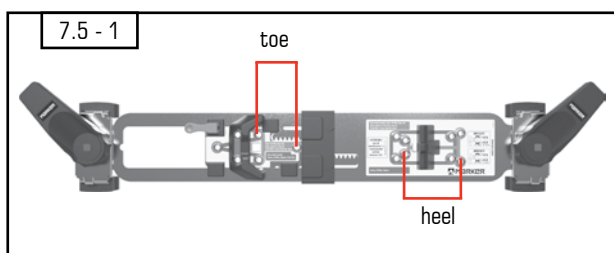
→ 12.1 - 12.3



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

7.5 INSTALLATION OF COMP JUNIOR 8



REMARK: (→ 20.3)

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

DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T (7.5 - 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 (7.5 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (7.5 - 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. (7.5 - 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:

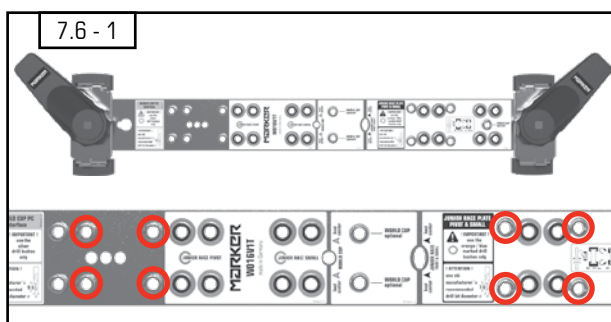
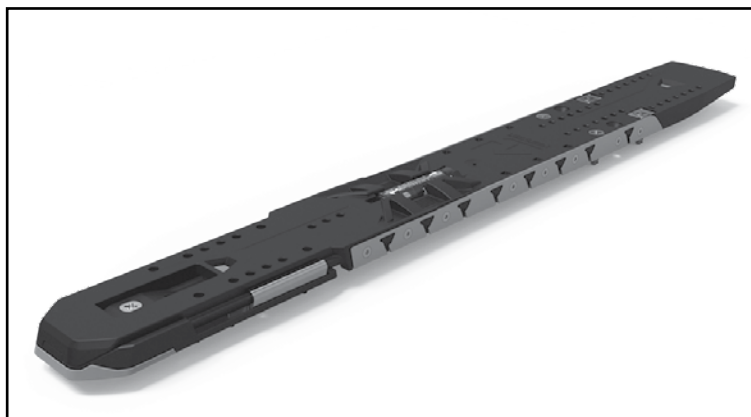
→ 12.1 - 12.3



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

7.6 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE 14 mm



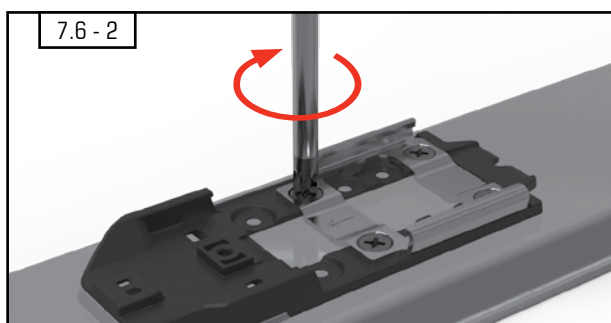
DRILLING THE ATTACHMENT HOLES:

- Place the World Cup Piston Control installation tool W016V1T in the correct position on the ski.
- Drill 4 holes for the front plate for short mounting position.
- Drill 4 holes for the rear plate attachment. (7.6 - 1)

- Remove installation tool from the ski.

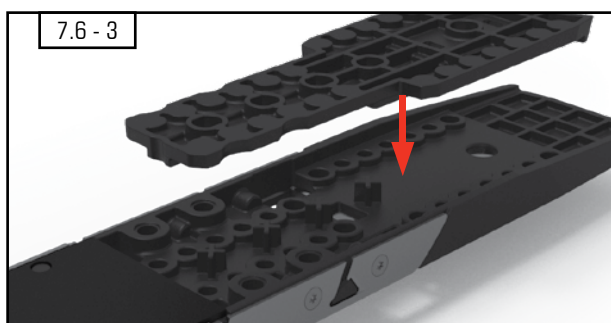
REMARK:

See DRILLING INSTRUCTIONS → 3.2



INSTALLATION OF THE WORLD CUP PISTON CONTROL FRONT PLATE:

- Install the World Cup Piston Control front plate with the pre-mounted screws. (7.6 - 2)



INSTALLATION OF THE WORLD CUP PISTON CONTROL PLATE:

- Insert the Flex element at the chosen position 1 - 4 (Position 3 + 4 for stiffer flex). (7.6 - 3 and 7.6 - 4)

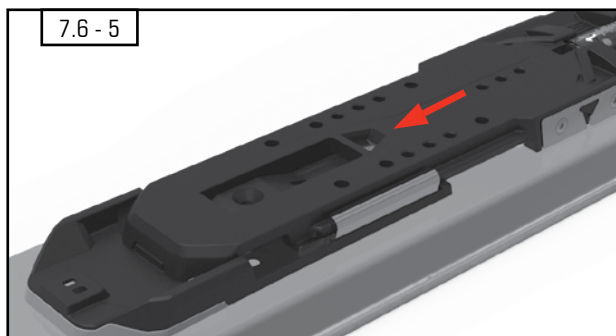


7.6 - 4

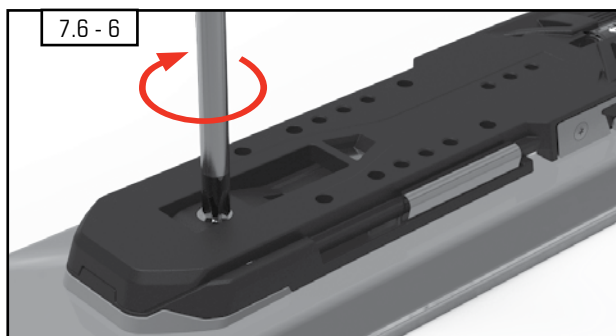
Montageposition optional
Mounting position optional

Position de montage en option
Posizione di montaggio opzionale

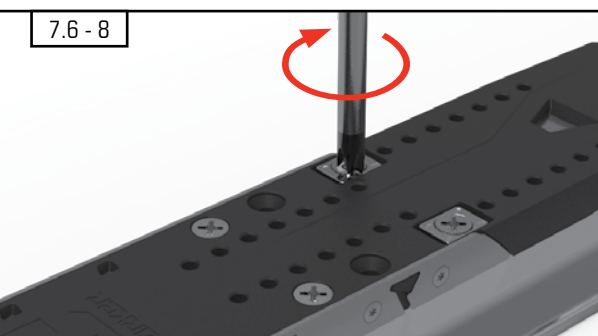
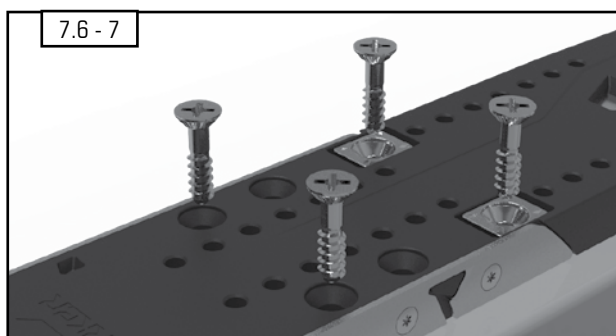
7.6 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE 14 mm



- Slide the World Cup Piston Control plate into the front plate. (7.6 - 5)

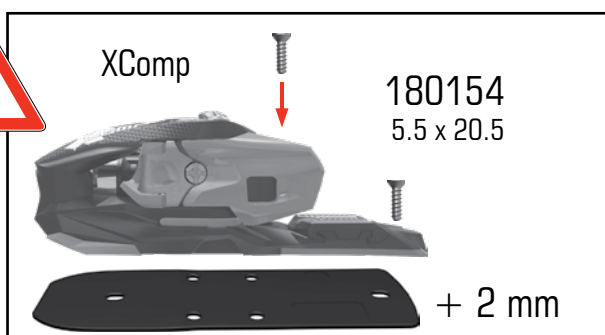
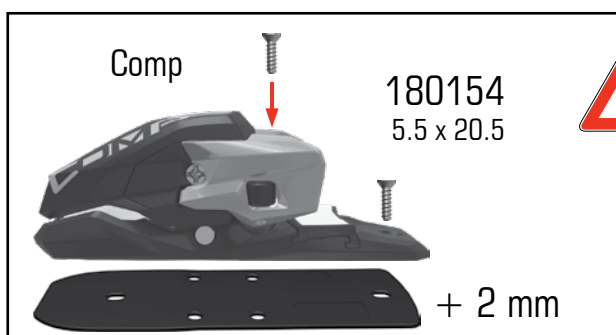


- Connect the World Cup Piston Control plate to the front plate using the front screw. (7.6 - 6)

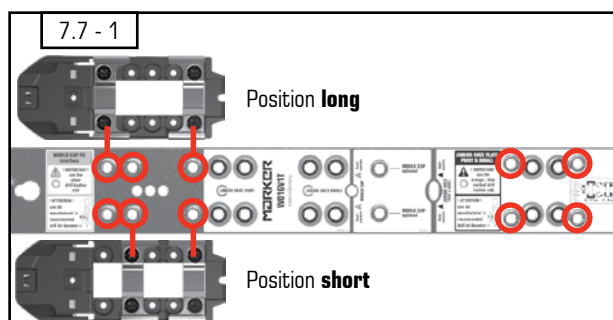


- Insert the bushings and the screws, tighten the screws lightly, then firmly. (7.6 - 7 and 7.6 - 8)

Mounting positions toe			Mounting positions heel	
1:	260 - 308		4:	262 - 278
2:	309 - 328		8:	319 - 338
3:	329 - 362		9:	339 - 348
			10:	349 - 362
			7:	299 - 318



7.7 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE 10 mm



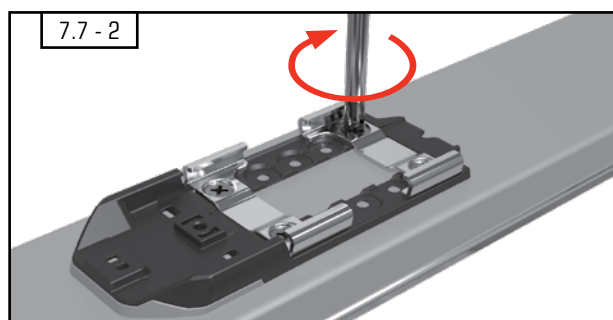
DRILLING THE ATTACHMENT HOLES:

- Place the World Cup Piston Control installation tool W016V1T in the correct position on the ski.
- Drill 4 holes for the front plate for short or long mounting position.
- Drill 4 holes for the rear plate attachment. (7.7 - 1)

- Remove installation tool from the ski.

REMARK:

See DRILLING INSTRUCTIONS → 3.2

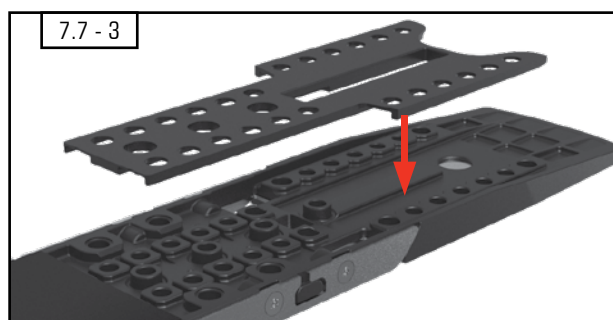


INSTALLATION OF THE WORLD CUP PISTON CONTROL FRONT PLATE:

- Install the World Cup Piston Control front plate with the pre-mounted screws. (7.7 - 2)

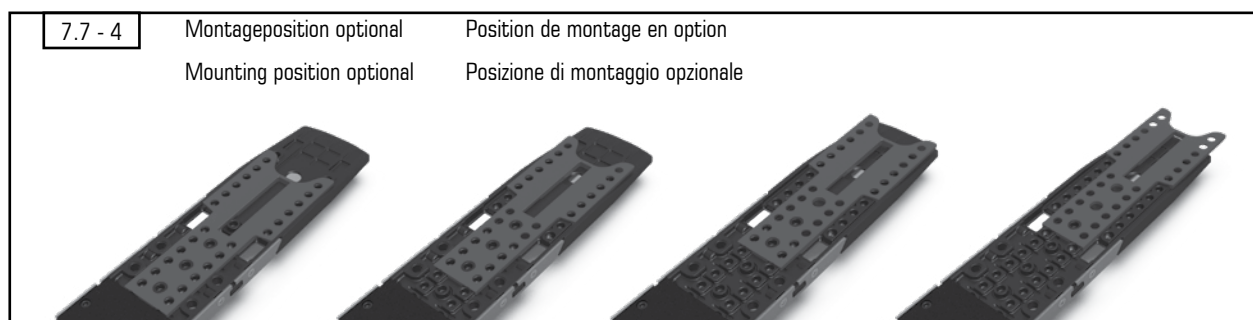
REMARK:

For the short mounting position, the front metal brackets and screws must be moved backwards by one pair of holes.

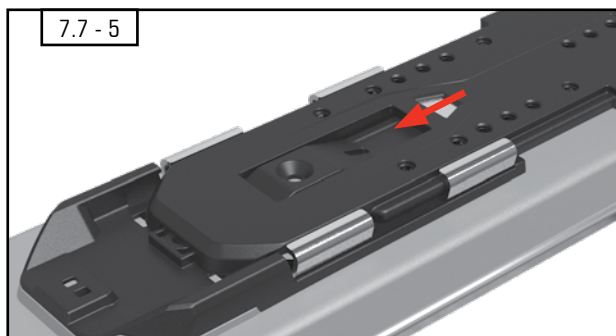


INSTALLATION OF THE WORLD CUP PISTON CONTROL PLATE:

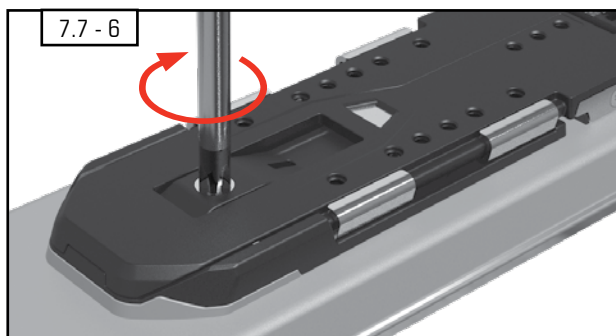
- Insert the Flex element at the chosen position 1 - 4 (Position 3 + 4 for stiffer flex). (7.7 - 3 and 7.7 - 4)



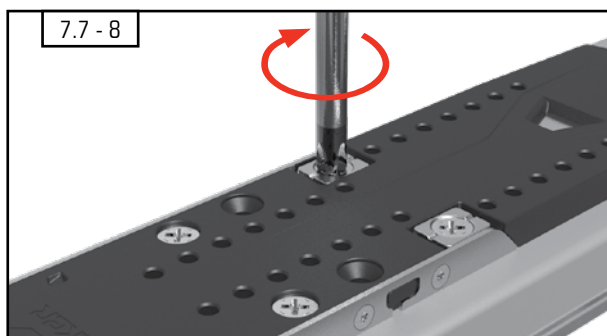
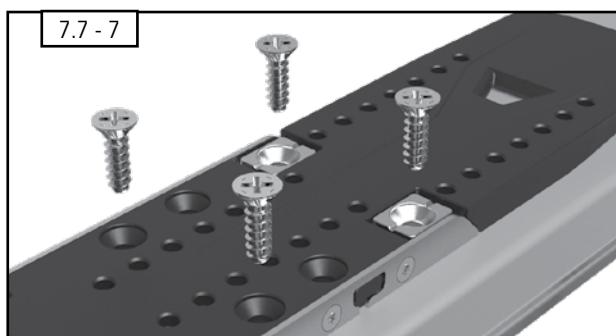
7.7 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE 10 mm



- Slide the World Cup Piston Control plate into the front plate. (7.7 - 5)



- Connect the World Cup Piston Control plate to the front plate using the front screw. (7.7 - 6)

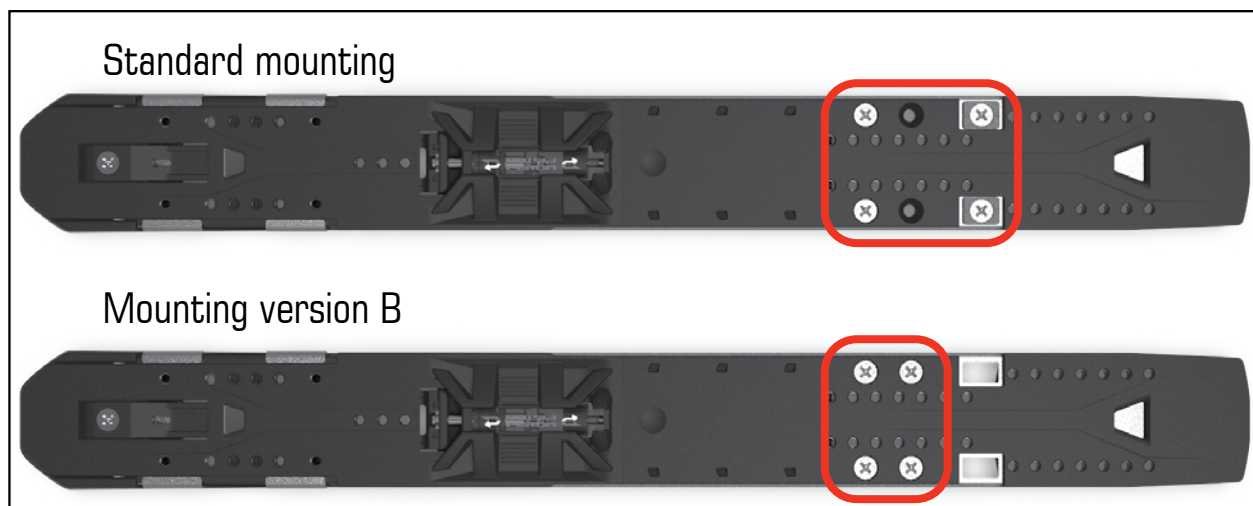


Mounting positions toe			Mounting positions heel		
1:	260 - 308		4:	262 - 278	8:
2:	309 - 328	5:	279 - 288	9:	339 - 348
3:	329 - 362	6:	289 - 298	10:	349 - 362
		7:	299 - 318		

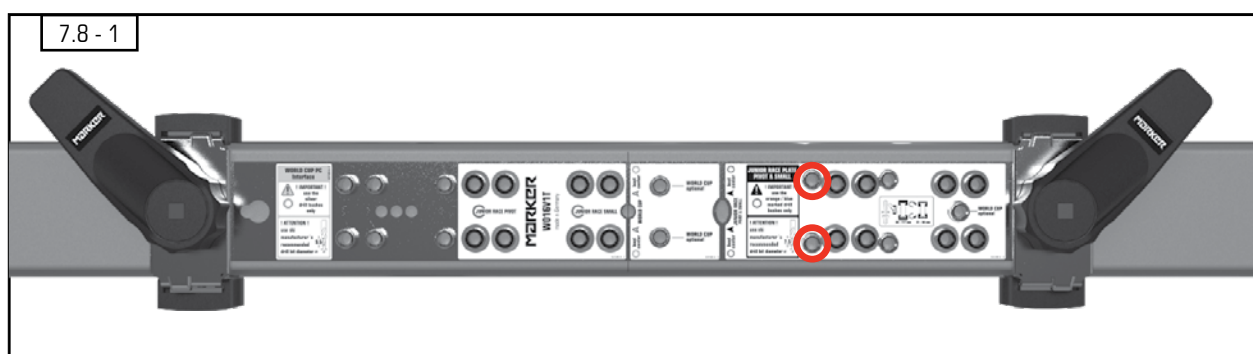


Toe	Comp & XComp		Heel	Comp & XComp	
					
+ 2 mm	inline screw	inline screw	+ 2 mm	inline screw	inline screw
+ 4 mm	 180154 (5.5 x 20.5)	 180154 (5.5 x 20.5)	+ 4 mm	 180074 (5.5 x 17.5)	 180182 (5.5 x 28.0)

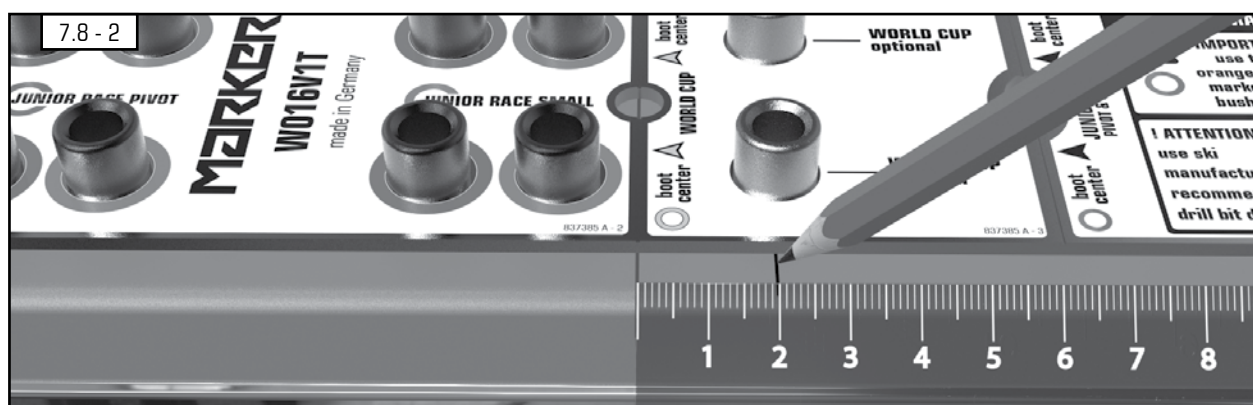
7.8 WORLD CUP PISTON CONTROL INTERFACE MOUNTING VERSION B



- Drill 4 holes for the front plate for short or long mounting position.
World Cup Piston Control Interface 14 mm → **7.3 - 1**
World Cup Piston Control Interface 10 mm → **7.4 - 1**
- Drill 2 holes through the two front bushings for the rear plate fixing (7.8 - 1).



- Measure 20 mm from the boot center marking towards the end of the ski and mark the position (7.8 - 2)

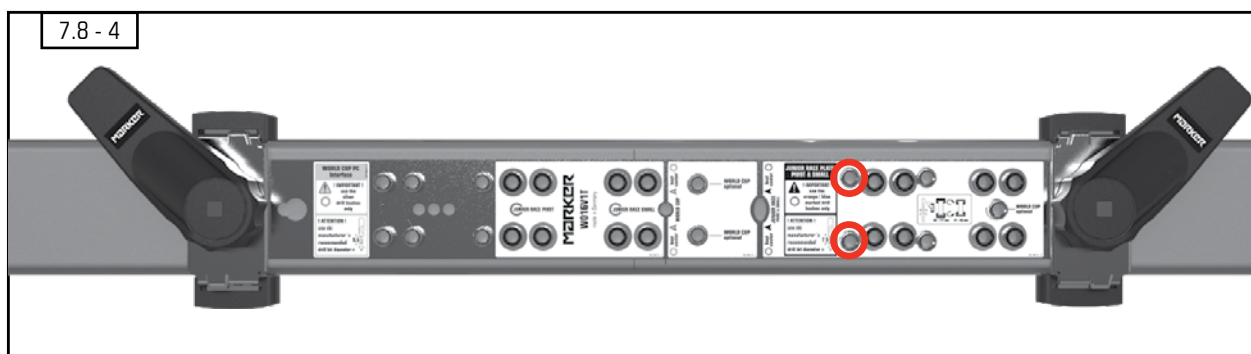


7.8 WORLD CUP PISTON CONTROL INTERFACE MOUNTING VERSION B

- Move the installation tool backwards to the marked position. (7.8 - 3)

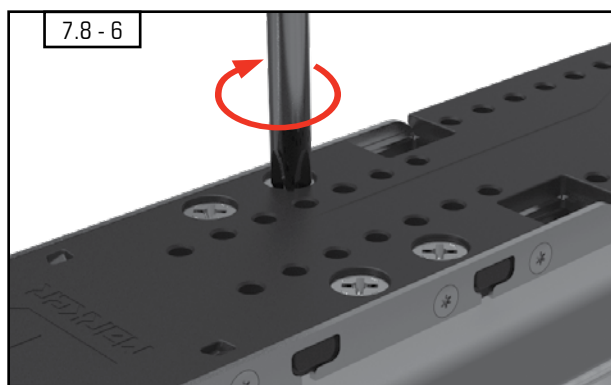
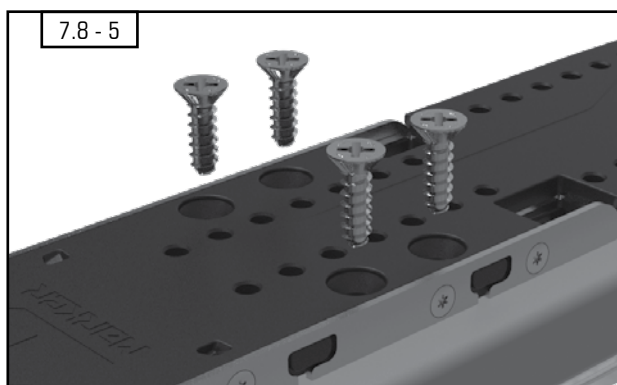


- Drill 2 additional holes through the same drill bushings for the rear plate fixing. (7.8 - 4)

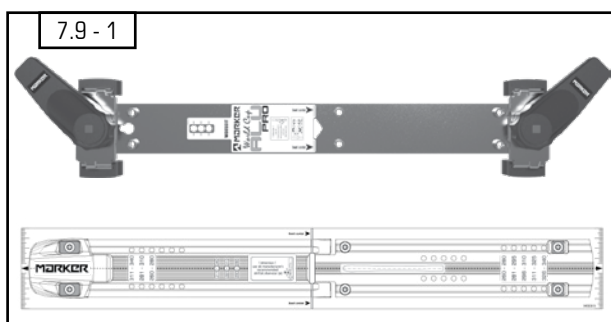
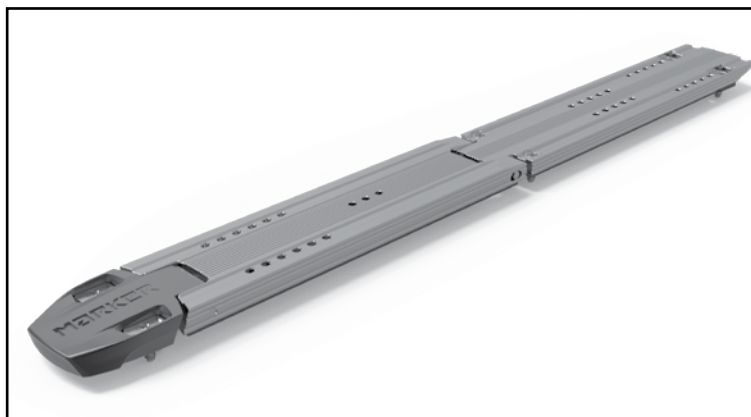


Install the plate as described in chapters → **7.3** and **7.4** points 2 - 6.

- Insert the screws, tighten the screws lightly, then firmly. (7.8 - 5 and 7.8 - 6)



7.9 WORLD CUP ALU PRO PLATE

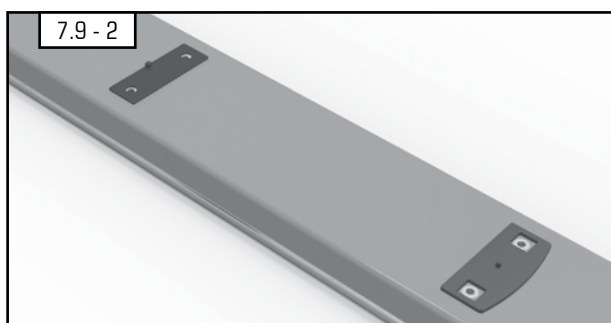


DRILLING THE ATTACHMENT HOLES:

- Place the ALU PRO PLATE installation tool W005S1T (or foil mounting jig 840038) in the correct position on the ski. (7.9 - 1)
- Drill 6 holes for the plate through the drill bushings.
- Remove the installation tool from the ski.

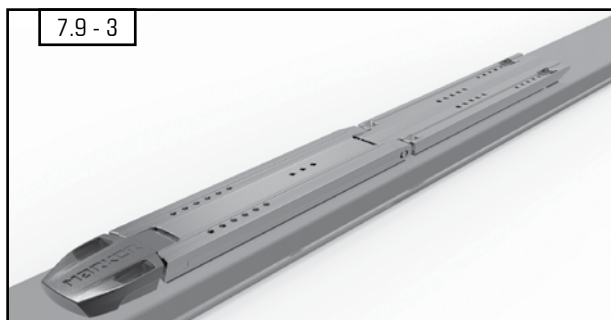
REMARK:

See DRILLING INSTRUCTIONS → 3.2

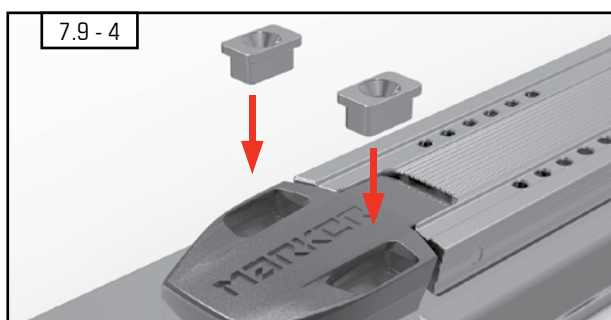


INSTALLATION OF THE ALU PRO PLATE:

- Place the support pads onto the middle and the rear drill holes. (7.9 - 2)

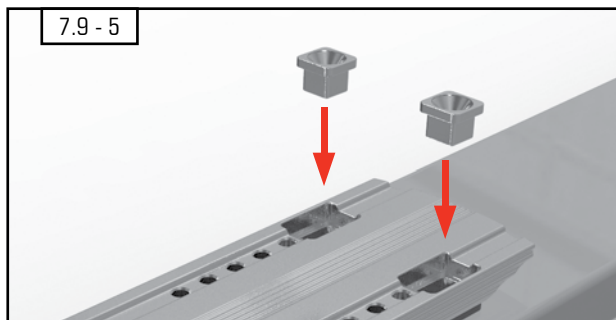


- Place the plate onto the support pads and the ski. (7.9 - 3)

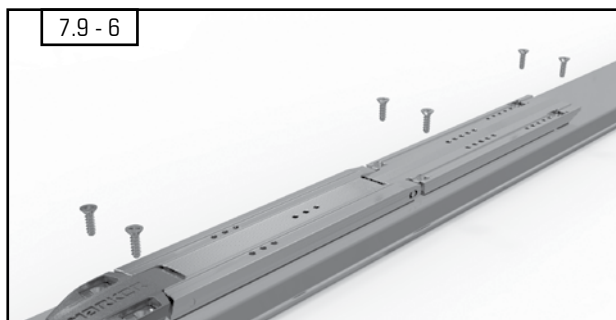


- Insert the fixed bushings to the plate. (7.9 - 4)

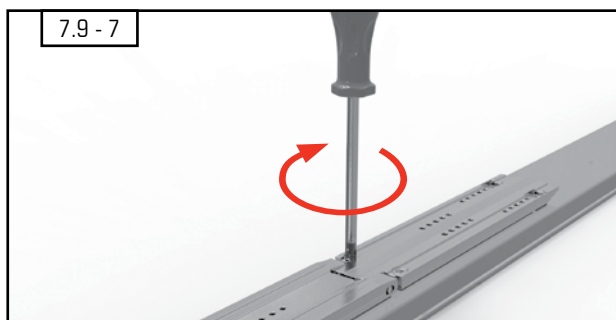
7.9 WORLD CUP ALU PRO PLATE



- Insert the gliding bushings to the plate. (7.9 - 5)



- Install the attachment screws. (7.9 - 6)



BINDING INSTALLATION:

- see Installation of Competition models → 7.2
- see Installation of Comp & XComp models → 7.3

BINDING POSITIONING:

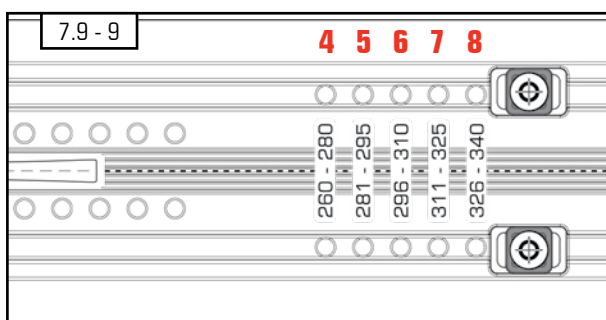
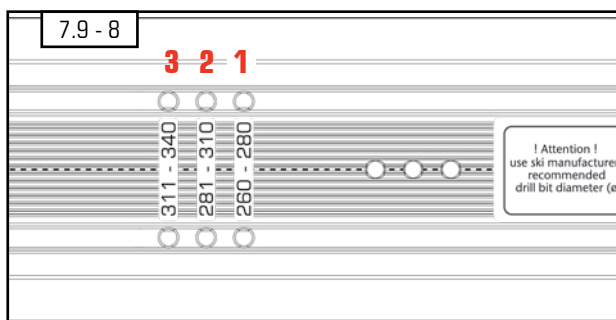
Toe: (7.9 - 8)

- 1: 260 mm - 280 mm
- 2: 281 mm - 310 mm
- 3: 311 mm - 340 mm

BINDING POSITIONING:

Heel: (7.9 - 9)

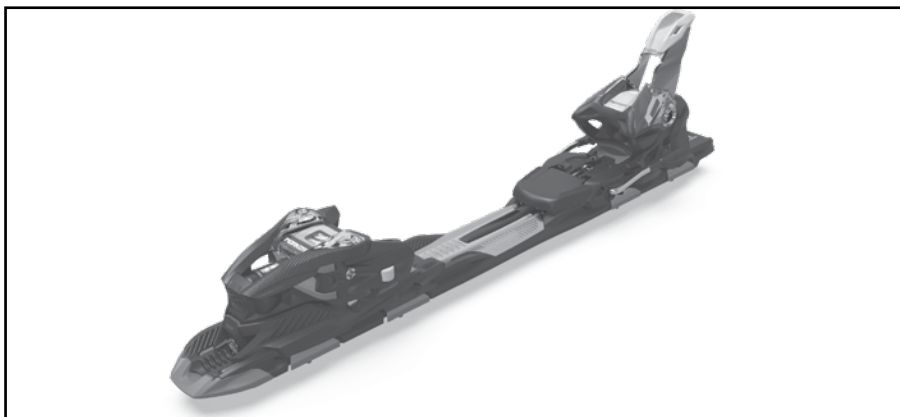
- 4: 260 mm - 280 mm
- 5: 281 mm - 295 mm
- 6: 296 mm - 310 mm
- 7: 311 mm - 325 mm
- 8: 326 mm - 340 mm



SCREW CHART FOR SPACERS

Toe	Comp & XComp		Heel	Comp & 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 RMOTION3 GRIPWALK MODELS



REMARK: (→ 20.3)

The binding models RMotion3 GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"



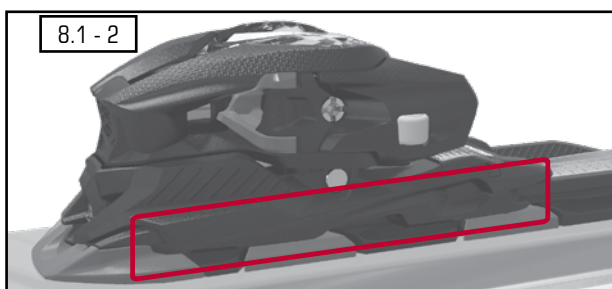
IMPORTANT !

RMotion3 GRIPWALK models are designed to mount only in conjunction with Vökl skis with premounted RMotion3 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)

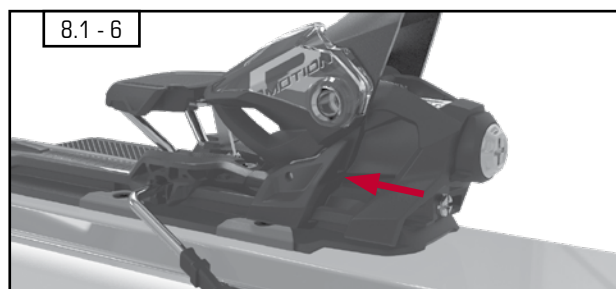


IMPORTANT SAFETY ADVICE !

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

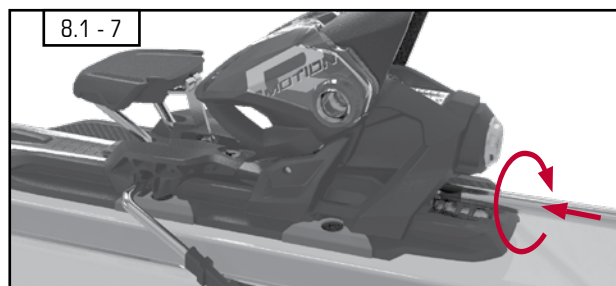


8.1 INSTALLATION OF RMOTION3 GRIPWALK MODELS



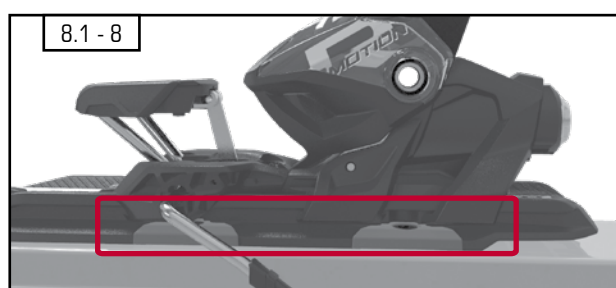
INSTALLING THE HEEL:

- 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).



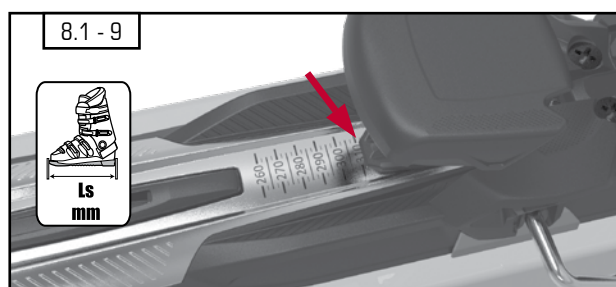
SOLE LENGTH ADJUSTMENT:

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



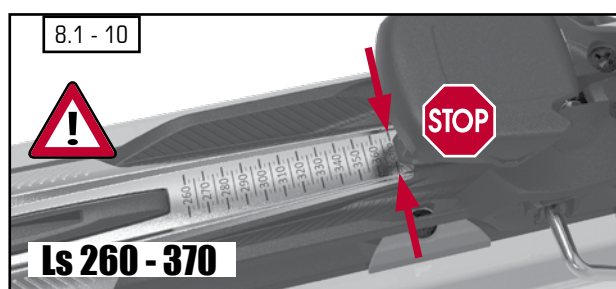
IMPORTANT SAFETY ADVICE !

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.

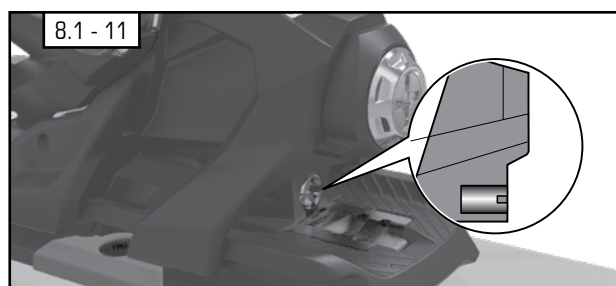
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.5



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: (→ 20.3)

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

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 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 !

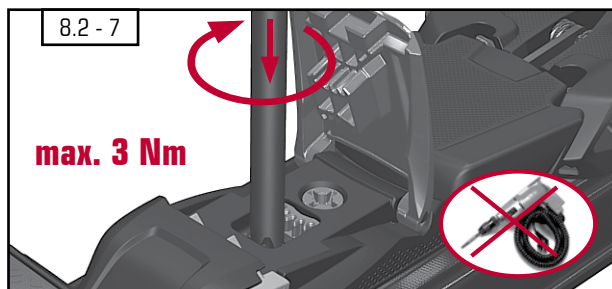
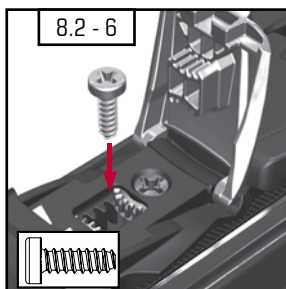
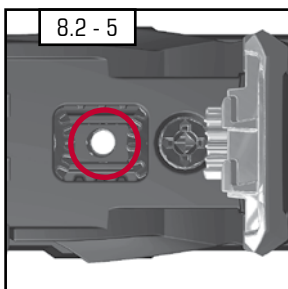
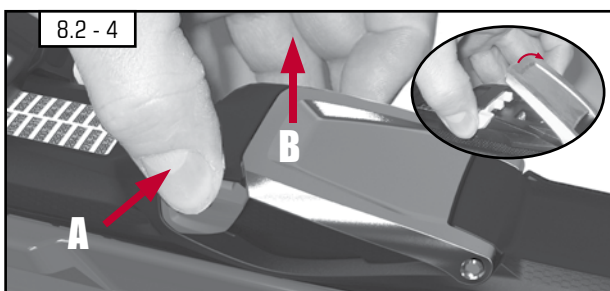
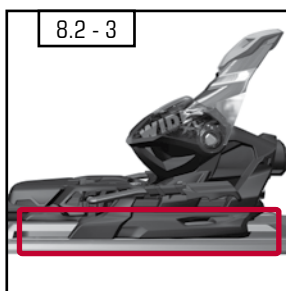
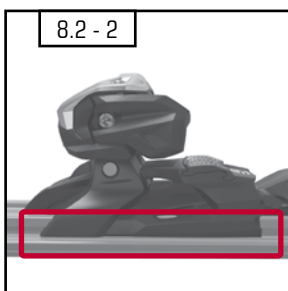
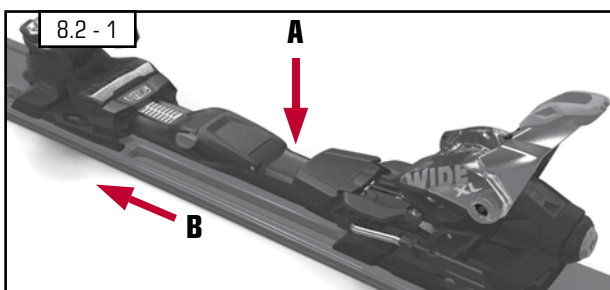
Check that the binding is fully and uniformly installed in the attachments (8.2 - 2 and 8.2 - 3)

- 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)



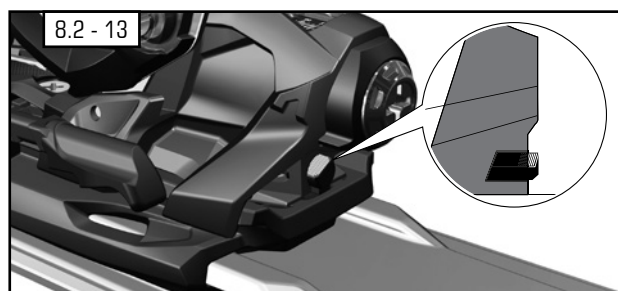
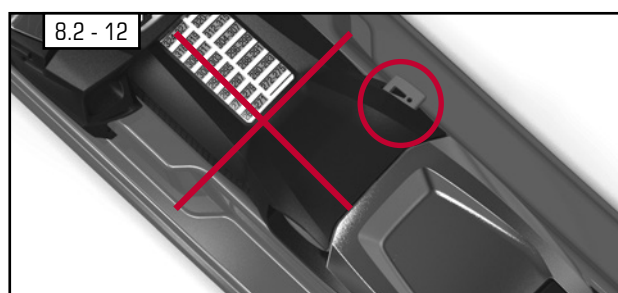
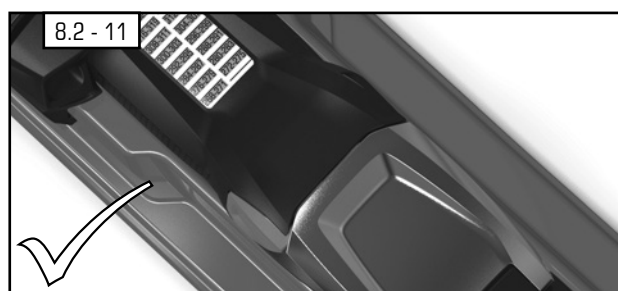
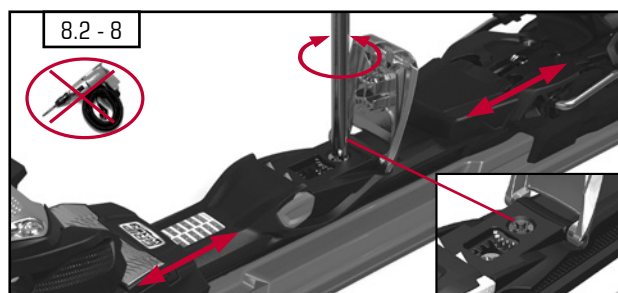
IMPORTANT !

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:

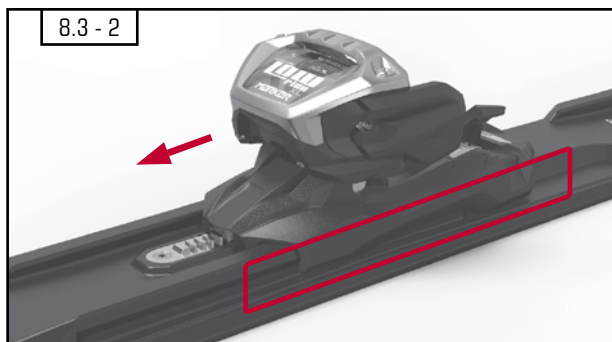
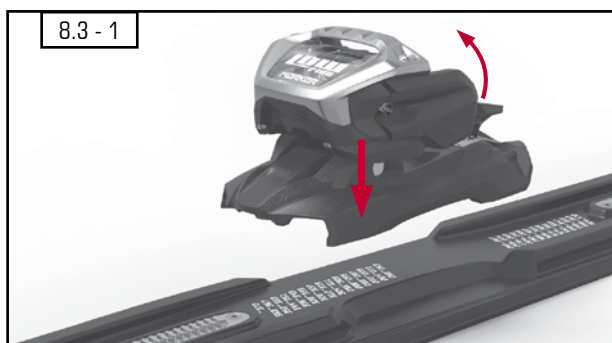
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.5



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 FR & LOWRIDE TCX



IMPORTANT !

LOWRIDE FR & Lowride TCX bindings are designed to mount only in conjunction with Völkl Peregrine 82, Peregrine V-Werks and Peregrine 80 skis.

REMARK: (→ 20.3)

The binding models Lowride FR & Lowride TCX are designed for the following standard boot soles:

- Alpine ski boots for adults ISO 5355
- Allpinw ski boots for adults ISO 23223 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 FR & LOWRIDE TCX



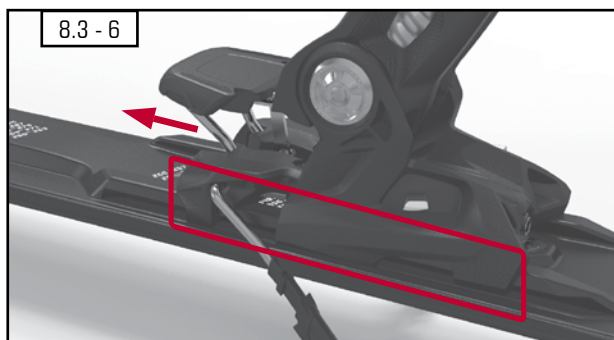
INSTALLING THE HEEL:

- 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)

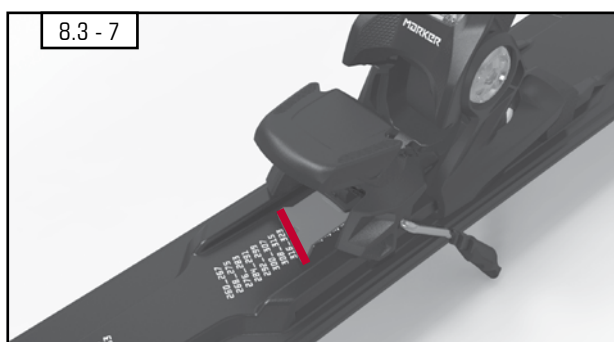


CAUTION !

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

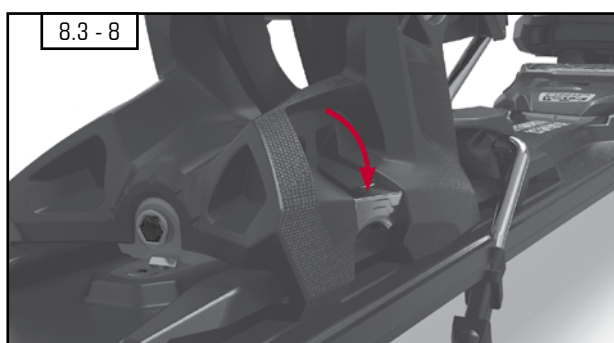


- Slide the heel to the correct sole length in accordance with the rear sole length scale. (8.3 - 7)



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:

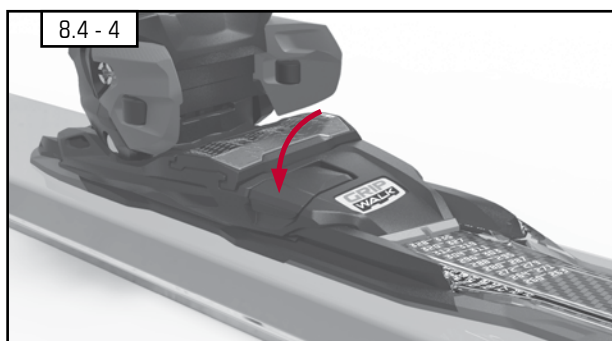
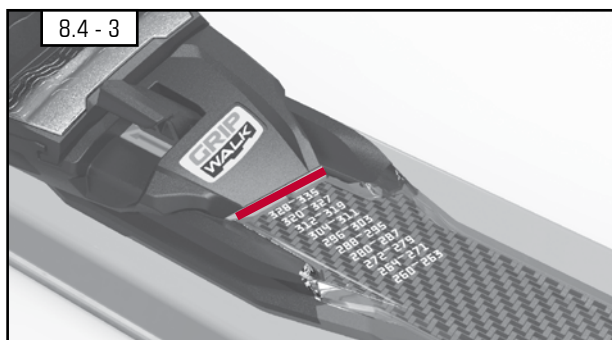
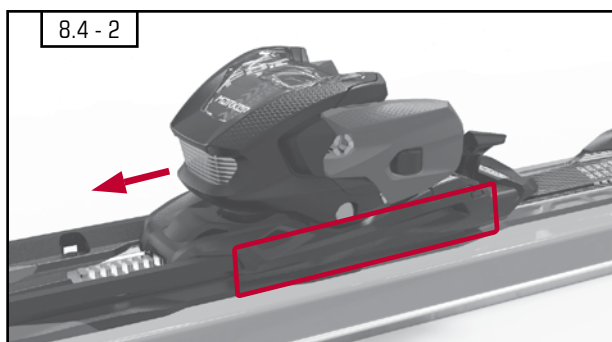
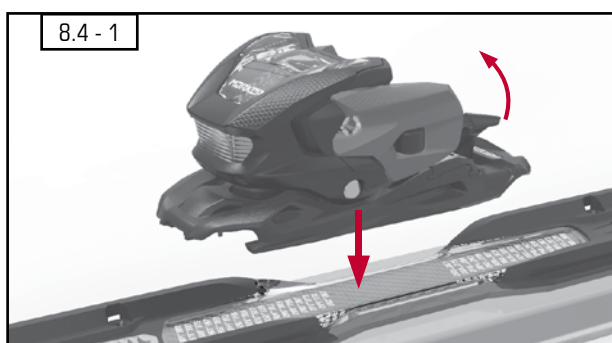
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 14.5



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



IMPORTANT !



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

REMARK: (→ 20.3)

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

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 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 !

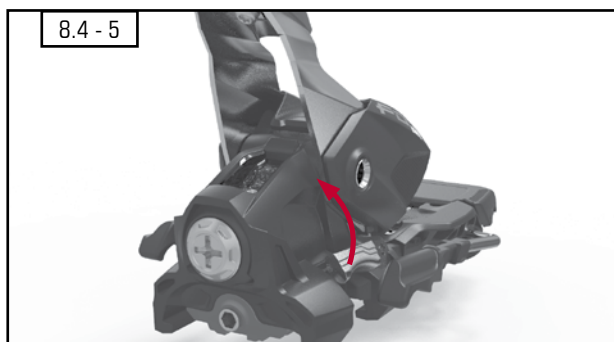


Make sure that the toe spacer rails engage both sides of the base plate properly.

- 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



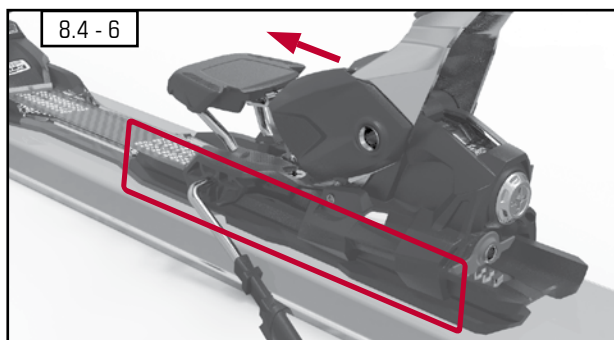
INSTALLING THE HEEL:

- 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)



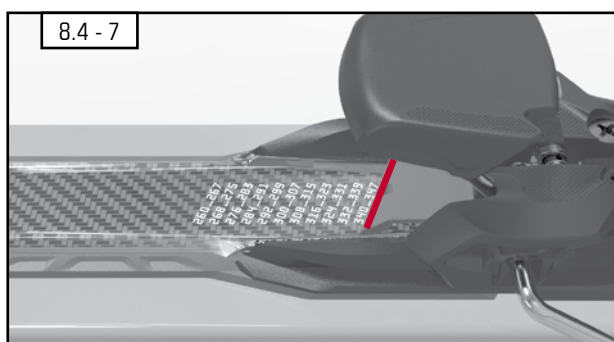
CAUTION !

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



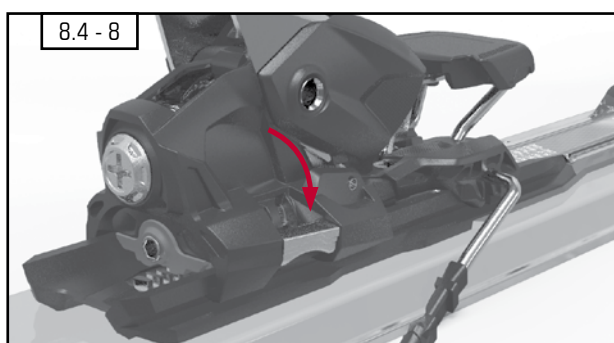
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (8.4 - 7)

- 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.

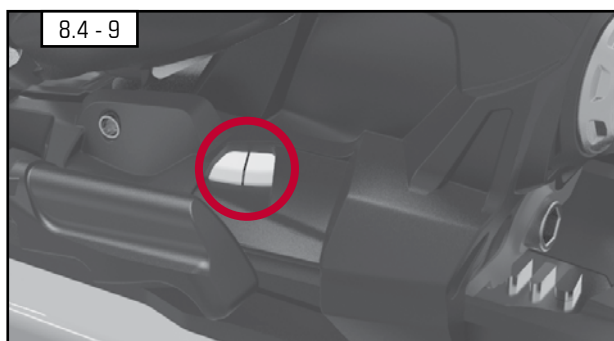
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

REMARK:

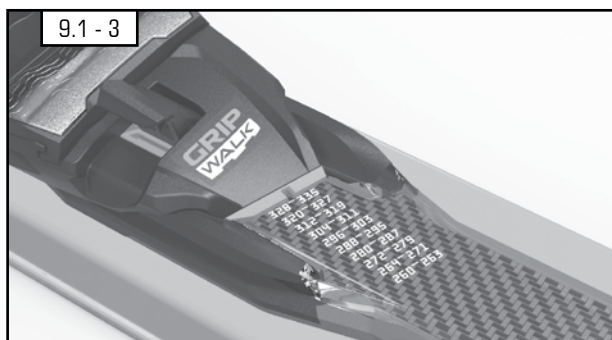
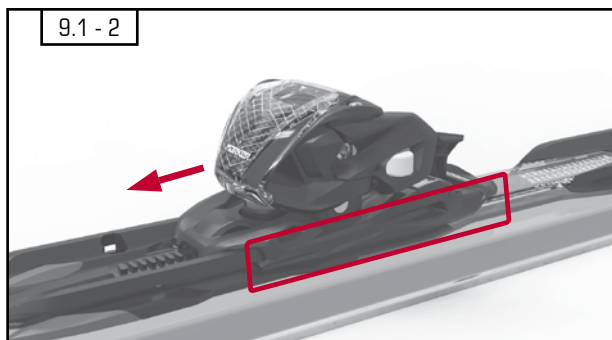
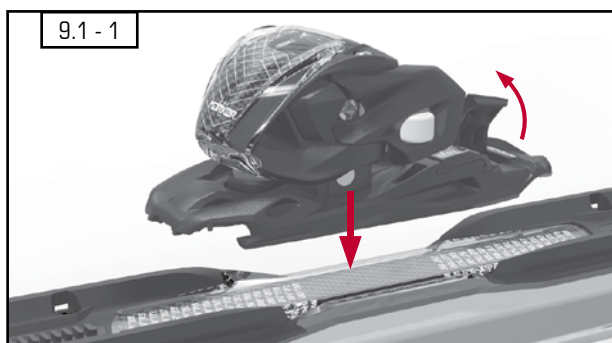
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.5



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 K2 QUIKCLIK MODELS



IMPORTANT !



Marker / K2 QuikClik bindings are designed to mount only in conjunction with K2 skis with premounted QuikClik plate system. The suitable ski models are listed on the set label or can be requested from K2.

REMARK:

This mounting instruction is valid for the MARKER / K2 models MXCELL TCx QuikClik, MXC TCx QuikClik, MCX TCx light QuikClik, M3 TCx light QuikClik, ERC TCx light QuikClik, M3 QuikClik, ER3 QuikClik, M2 QuikClik, Free Ten QuikClik, Squire 10 QuikClik and ERP QuikClik.

REMARK: (→ 20.3)

The binding models K2 QuikClik GRIPWALK are designed for the following standard boot soles:

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (9.1 - 1 & 9.1 - 2)



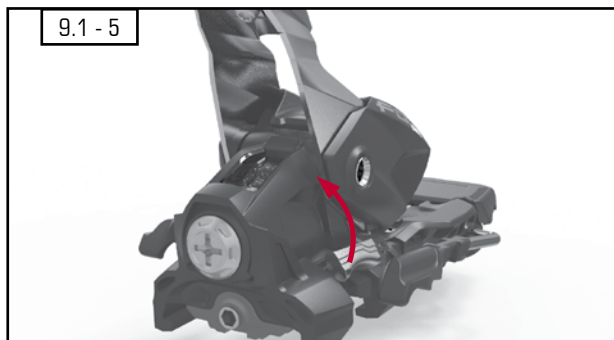
CAUTION !

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. (9.1 - 3)

- Close the toe locking lever. (9.1 - 4)

9.1 INSTALLATION OF K2 QUIKCLIK MODELS



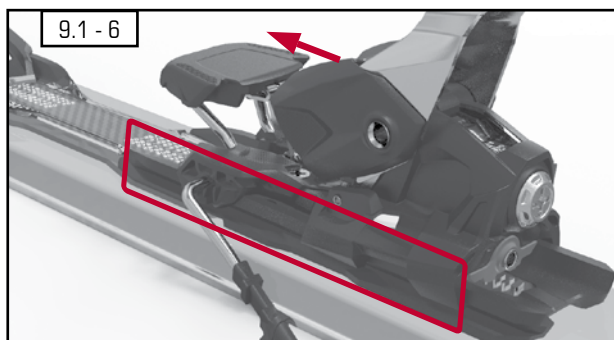
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (9.1 - 5)
- Slide the heel forward. (9.1 - 6)

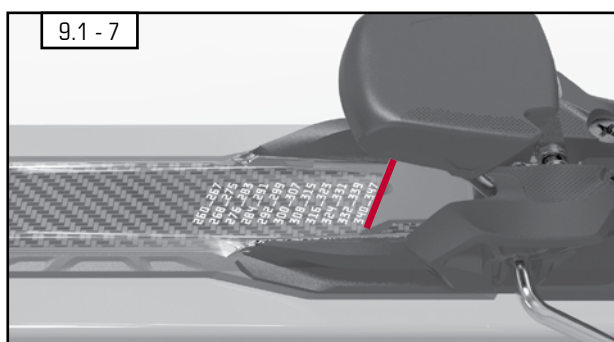


CAUTION !

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

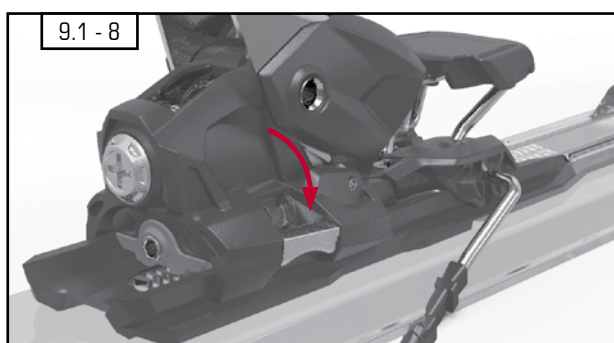


- Slide the heel to the correct sole length in accordance with the rear sole length scale. (9.1 - 7)
- Close the heel locking lever. (9.1 - 8)



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. (9.1 - 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.

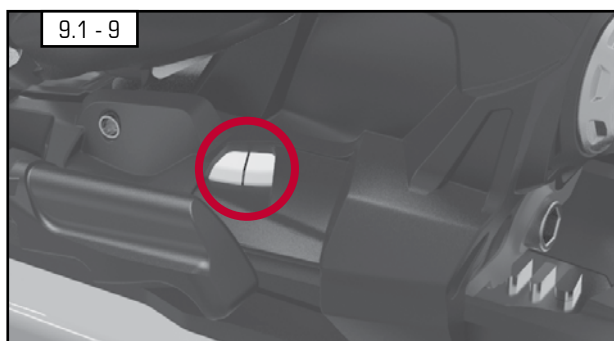
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3

REMARK:

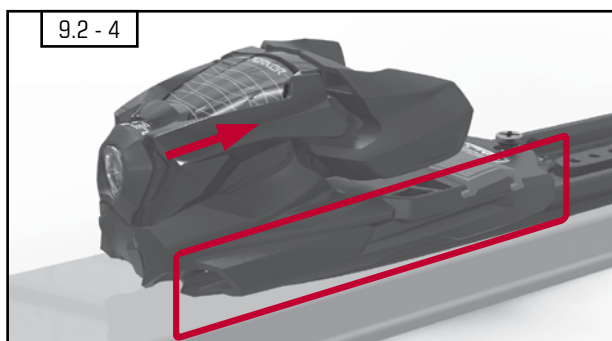
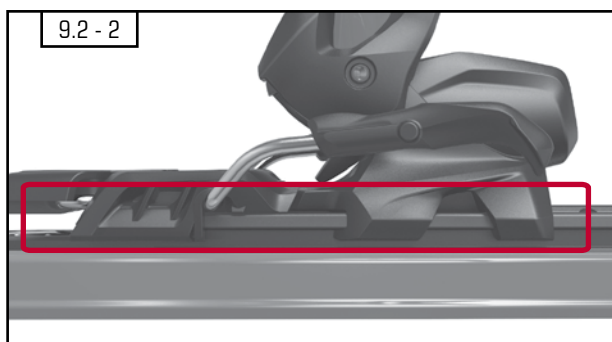
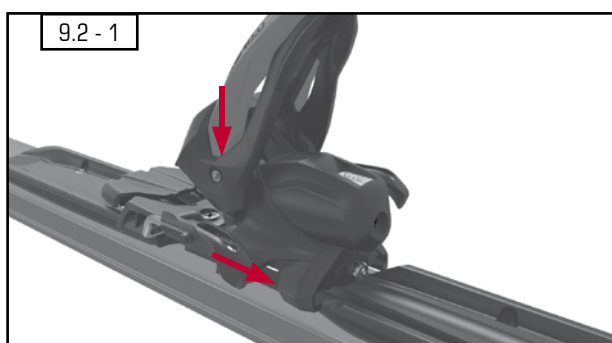
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 14.5



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 M2 / ERP GRIPWALK MODELS



IMPORTANT !

M2 / ERP bindings are designed to mount only in conjunction with K2 M2 / ERP skis.

The suitable ski models are listed on the set label or can be requested from K2.



REMARK: (→ 20.3)

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

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"

INSTALLING THE HEEL:

- Slide the heel from the center of the plate backward until it stops. (9.2 - 1)



CAUTION !

Make sure that the spacer rails engage both sides of the base plate properly. (9.2 - 2)

- Move the heel backwards by turning the forward pressure adjustment screw. (9.2 - 3)

INSTALLING THE TOE:

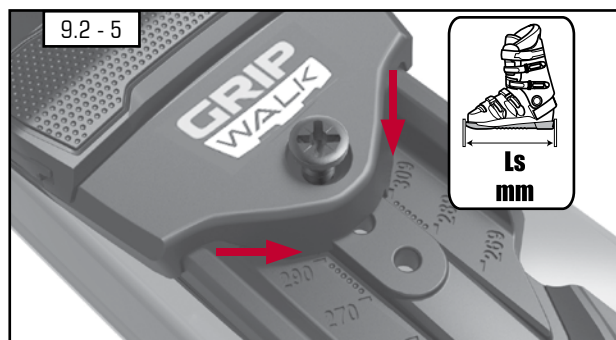
- Ensure that the fixation screw tips do not exceed the bottom side of the spacer.
- Slide the toe onto the plate, starting from the front. (9.2 - 4)



CAUTION !

Make sure that the spacer rails engage both sides of the base plate properly. (9.2 - 4)

9.2 INSTALLATION OF M2 / ERP GRIPWALK MODELS

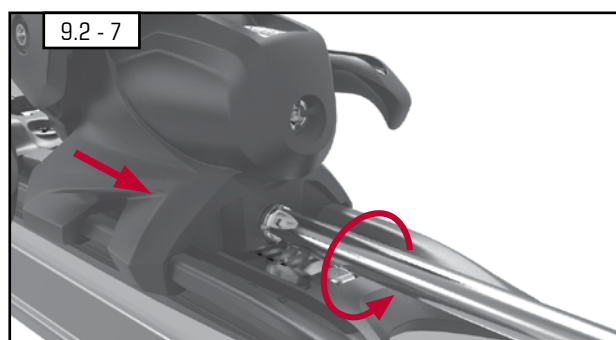


SOLE LENGTH ADJUSTMENT:

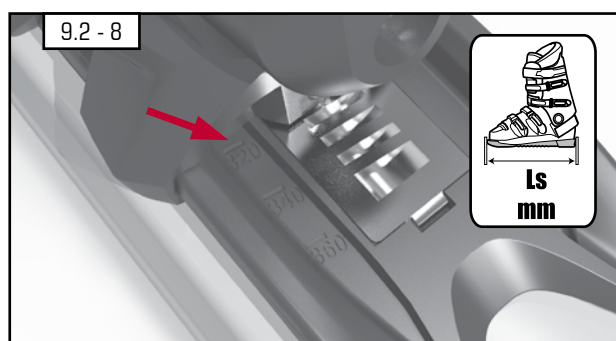
- Slide the toe backward and adjust the sole length in accordance with the sole length scale. The screw hole of the toe spacer has to be aligned with the hole of the plate. (9.2 - 5).



- Tighten the fixing screws by hand with a torque of 5.0 ± 0.5 Nm. (9.2 - 6)

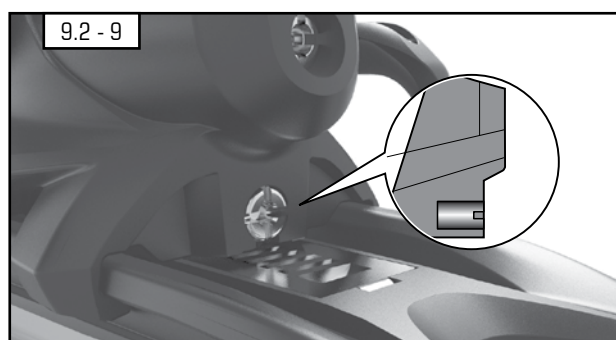


- Screw the heel backward to the correct sole length in accordance with the sole length scale.
Indicator: left back edge of the heel housing. (9.2 - 7 / 9.2 - 8)



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. (9.2 - 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.

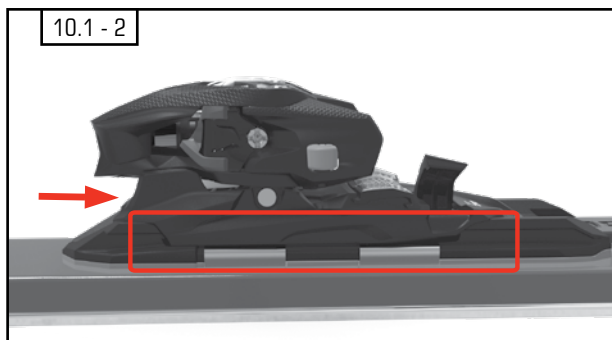
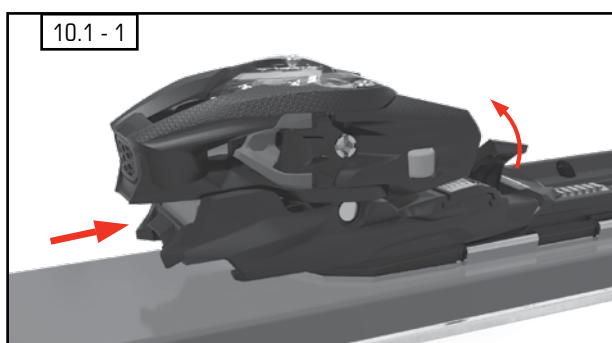
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 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 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: (→ 20.3)

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

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 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.

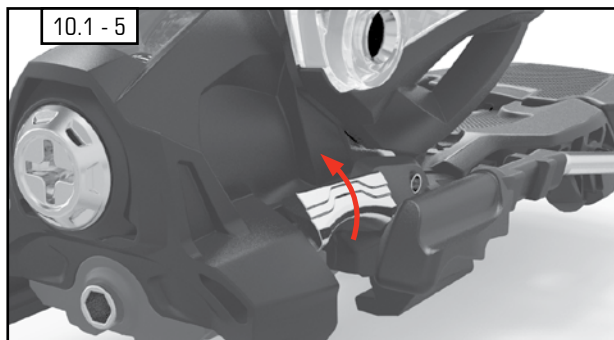
CAUTION !



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 NORDICA FDT GRIPWALK MODELS



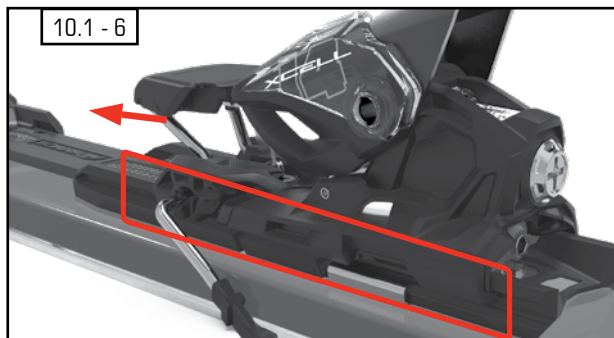
INSTALLING THE HEEL:

- 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.



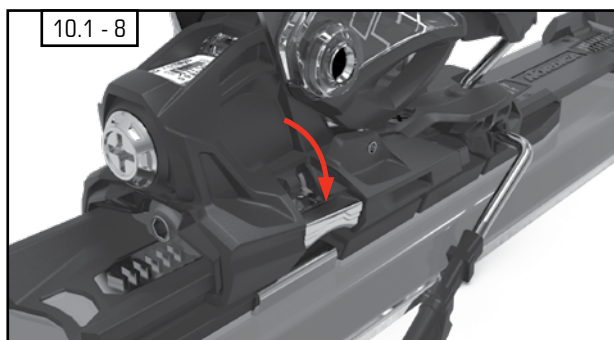
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (10.1 - 7)

- 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.

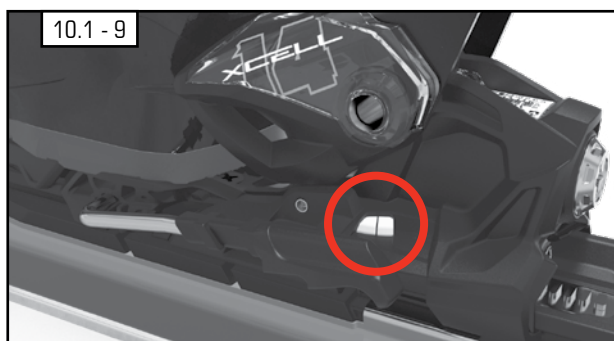
See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 12.1 - 12.3

REMARK:

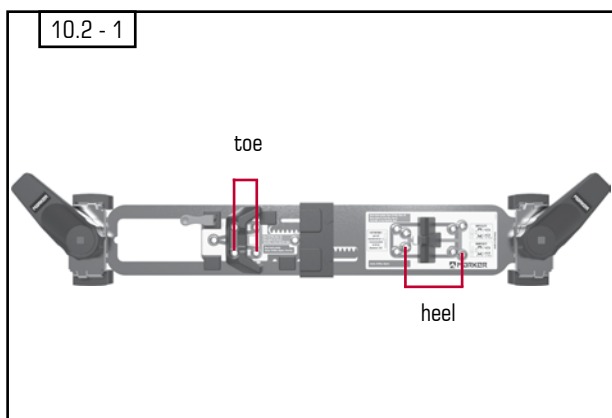
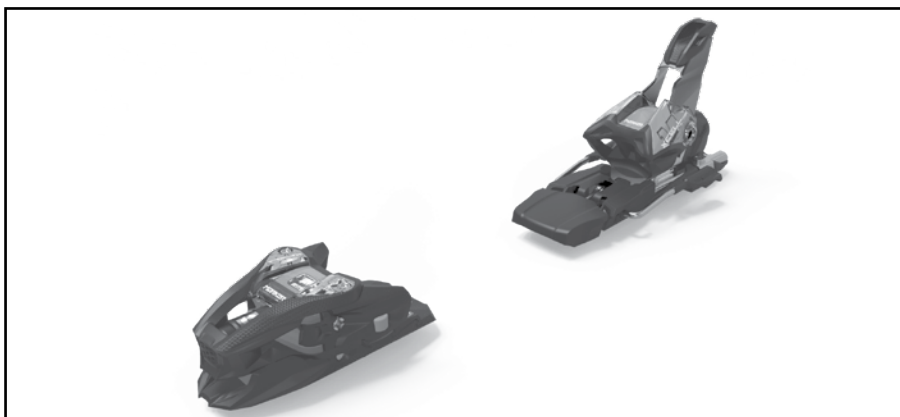
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 14.5



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

10.2 INSTALLATION OF NORDICA RACE XCELL GRIPWALK



REMARK: (→ 20.3)

Race XCELL GRIPWALK models are designed for the following standard boot soles:

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"

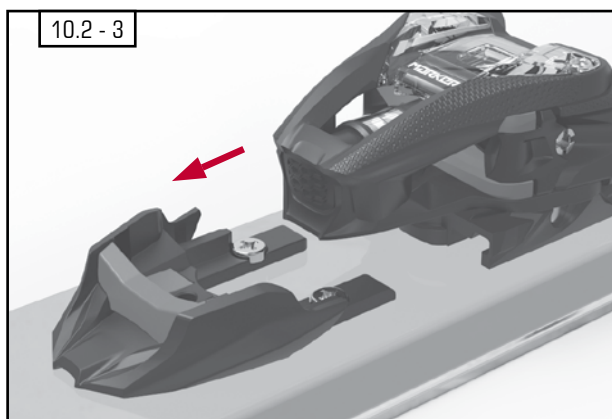
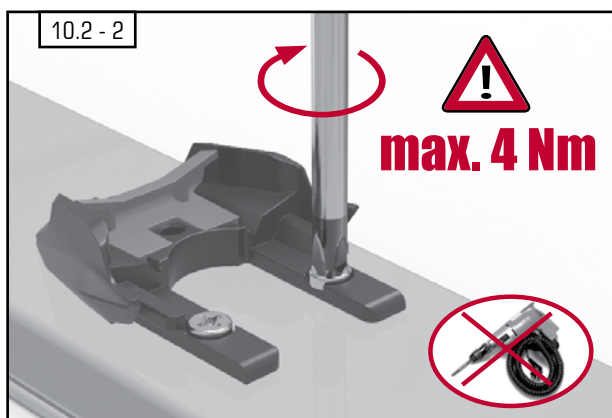
DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF THE INSTALLATION TOOLS. → 3.2

- Place the MARKER universal installation tool W001G1T (10.2 - 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 green marked drill bushings.
- Remove installation tool from the ski.

REMARK:

See DRILLING INSTRUCTIONS → 3.2

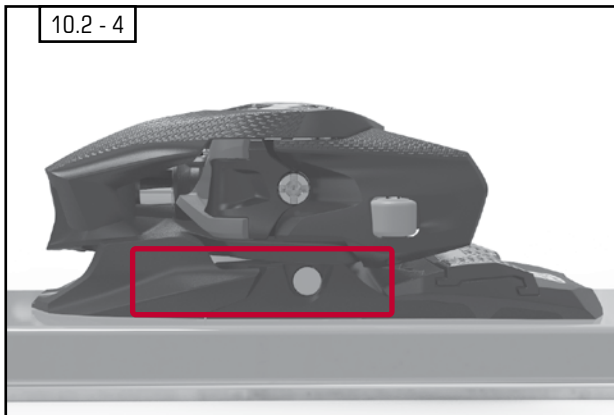


INSTALLING THE TOE:

- Install the front plate with the pre - installed screws in the front holes. Tighten the screws by hand with a maximum torque of 4.0 Nm (10.2 - 2).
- Slide the toe onto the front plate from the rear (10.2 - 3).

10.2 INSTALLATION OF NORDICA RACE XCELL GRIPWALK

10.2 - 4

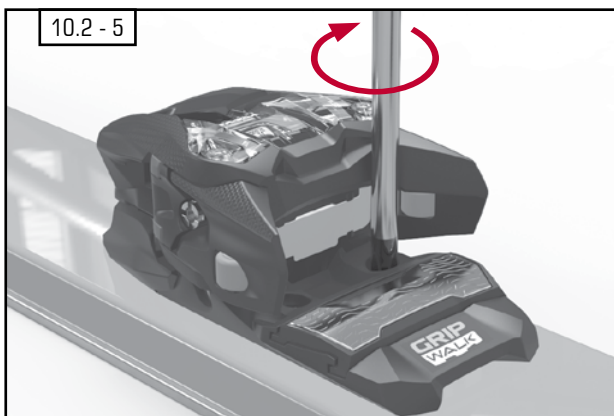


CAUTION !

Ensure that the toe is fully and uniformly sliding into the front plate attachments (10.2 - 4).

- Install the toe with the pre - mounted screws. Tighten the screws lightly, then firmly (10.2 - 5).

10.2 - 5



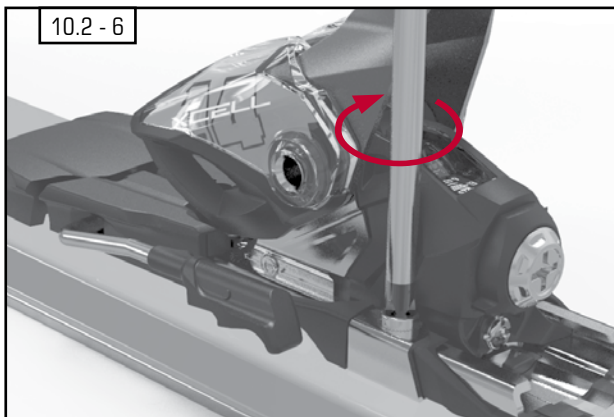
INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- With downward pressure, tighten the screws lightly, then firmly. (10.2 - 6)

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. (10.2 - 7)
- 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.

10.2 - 6



CAUTION !

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

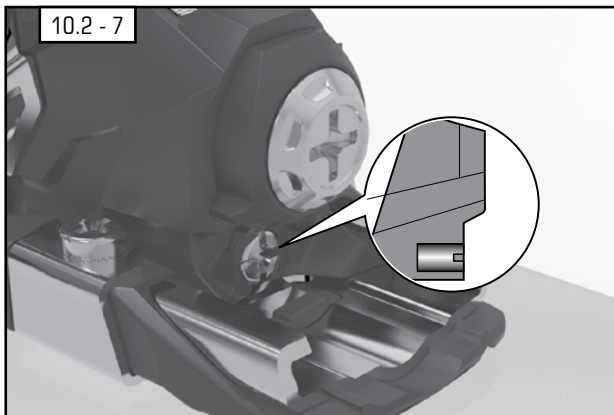
RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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

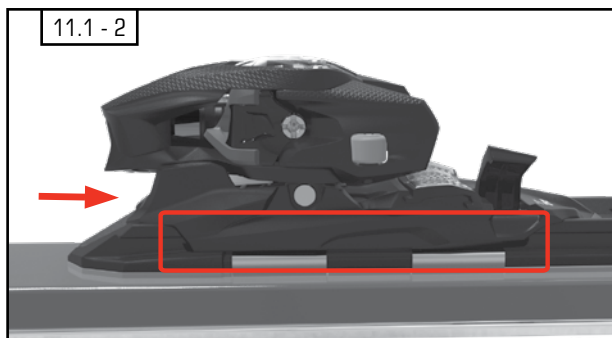
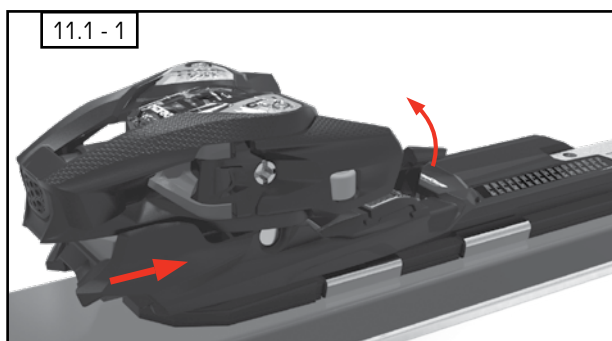
10.2 - 7



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 BLIZZARD DEMO (FDT GRIPWALK) MODELS



IMPORTANT !



Xcell Demo, TPX Demo, TP light 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: (→ 20.3)

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

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 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.

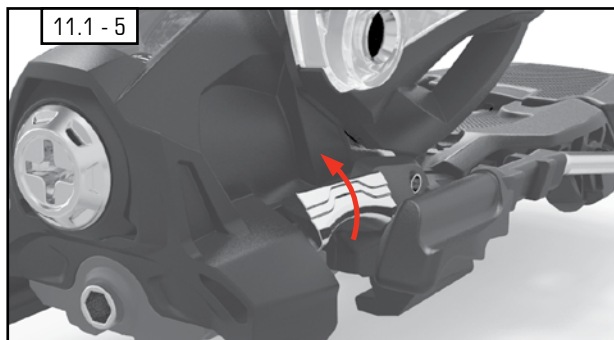
CAUTION !



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 BLIZZARD DEMO (FDT GRIPWALK) MODELS



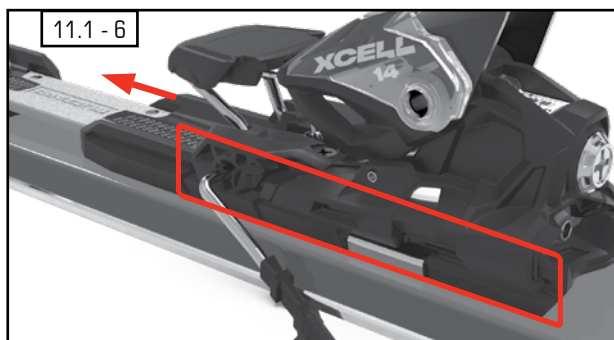
INSTALLING THE HEEL:

- 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.



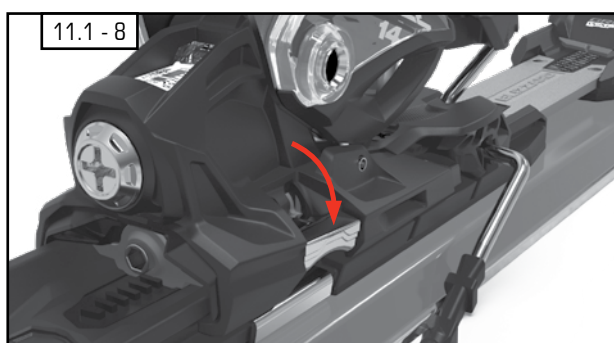
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (11.1 - 7)

- 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.

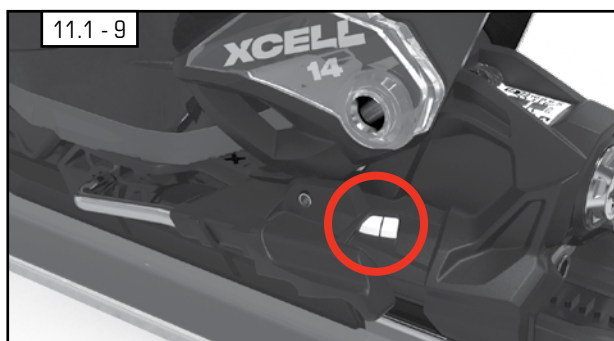
See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 12.1 - 12.3

REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 14.5



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 47 lb 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 SETTING:

The value lines in the MARKER adjustment chart are marked with the letters A – P 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, select the one higher up on the chart.
- 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 and older, or 9 and under, 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: 5'7"
- ▶ 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 9 or under, move up the chart one row = row L
- ▶ Column sole length 311 - 330 mm
- ▶ Result: release value 6.00

MARKER

2024/2025 ADJUSTMENT CHART

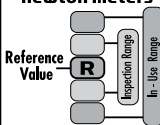
MANDATORY RELEASE VALUES					EXAMPLES FOR INITIAL INDICATOR VALUE (pre-setting), DEPENDENT ON BOOT SOLE LENGTH [mm]							
SKIER'S PARAMETERS			INSPECTION PARAMETERS									
WEIGHT [lbs] [kg]	HEIGHT [ft' in'] [cm]	SKIER CODE	TWIST [Nm]	FWD LEAN [Nm]	≤230	231-250	251-270	271-290	291-310	311-330	331-350	≥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
			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"

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 correction could be necessary in order to make the measured twist and forward lean values coincide with the selected individual twist and forward lean values within the limits stated in this table.

12.2 RELEASE VALUE SELECTION AND ADJUSTMENT

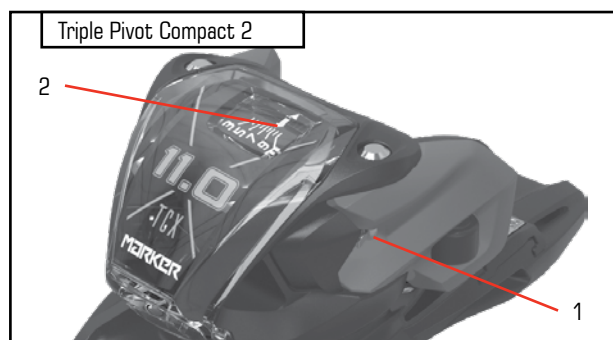
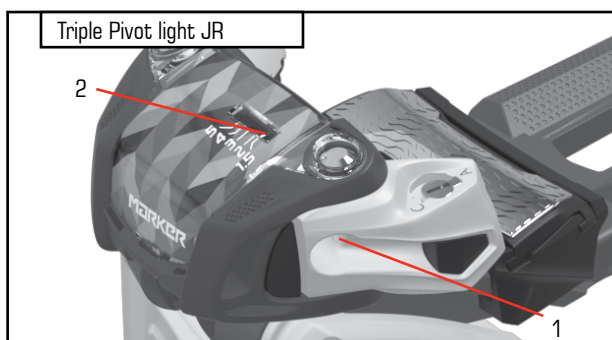
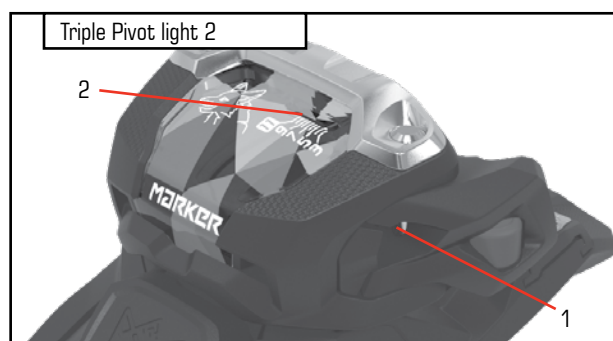
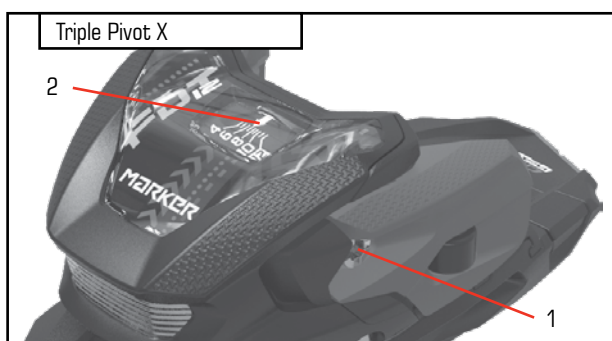
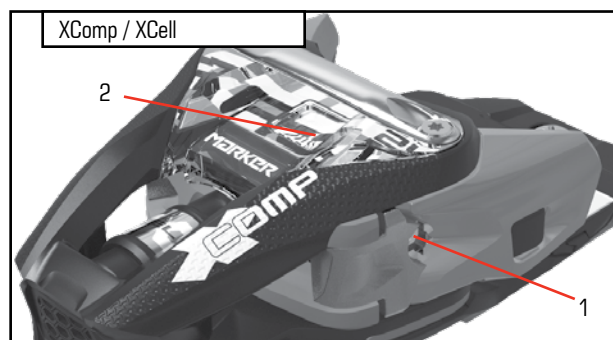
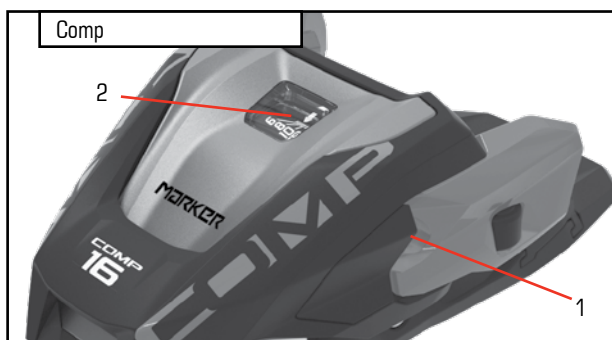
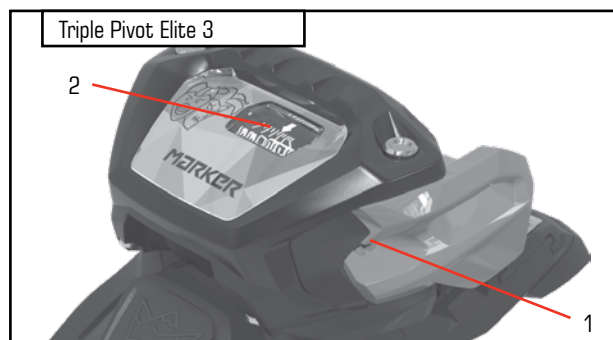
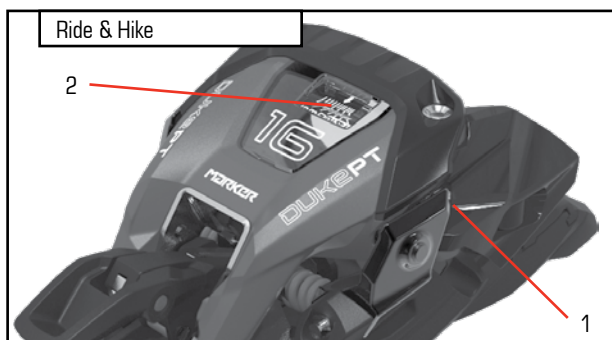
BINDING RELEASE FORCE ADJUSTMENT SCREWS AND RELEASE VALUE INDICATOR SCALES

REMARK:

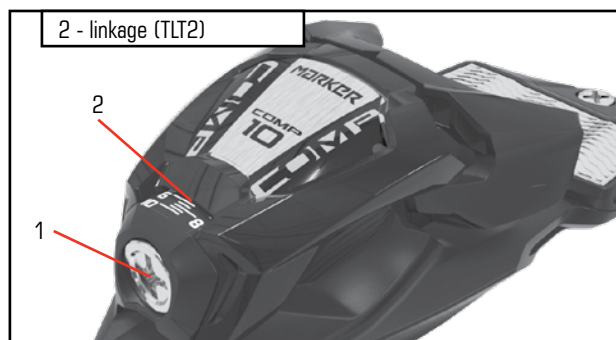
MARKER recommends adjustment with a Pozidriv® 3 screwdriver.

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)

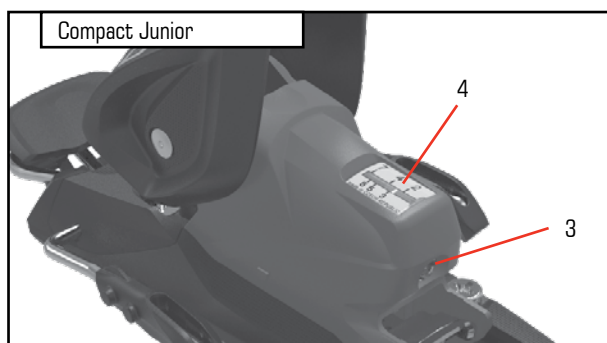
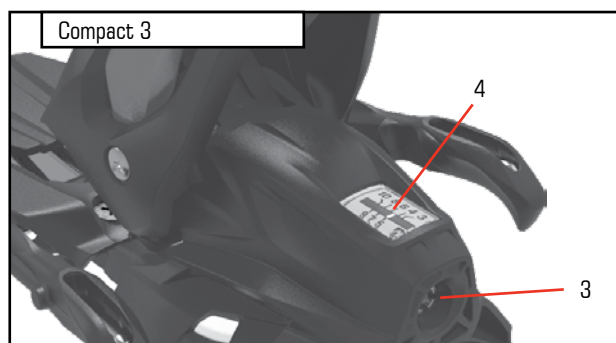
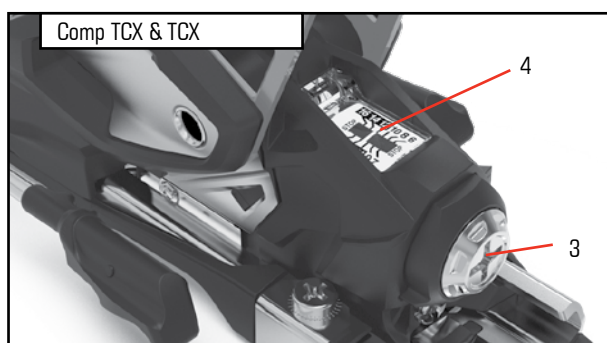
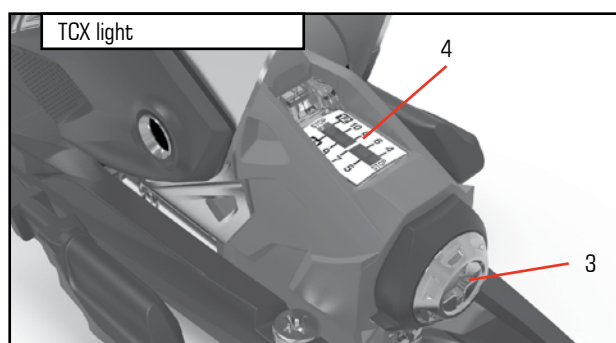
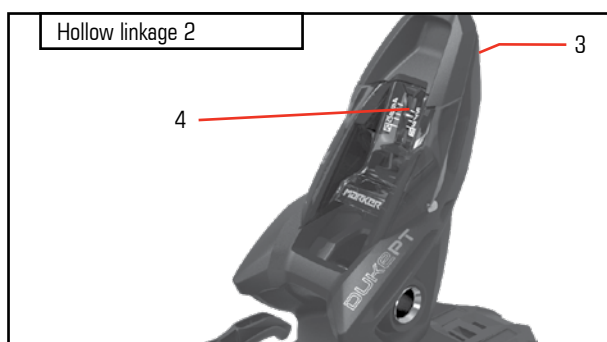
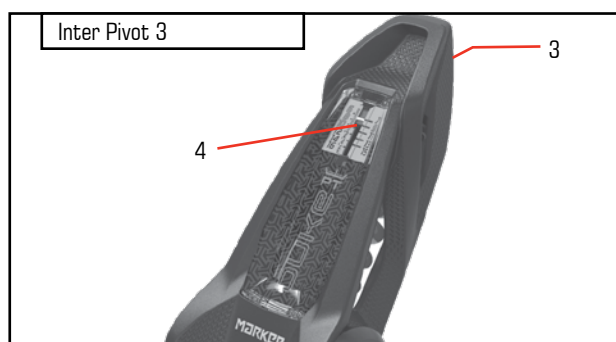


12.2 RELEASE VALUE SELECTION AND ADJUSTMENT



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 → **see 2.2 - 2.4**



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. If the customer requests higher release settings than indicated on the ISO adjustment chart they must fill out and sign the Special Warning & Agreement Release Waiver. Please advise your customer that skiers skiing on such bindings are doing so at their own risk and liability

see → 20.7

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 → 20.7 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.

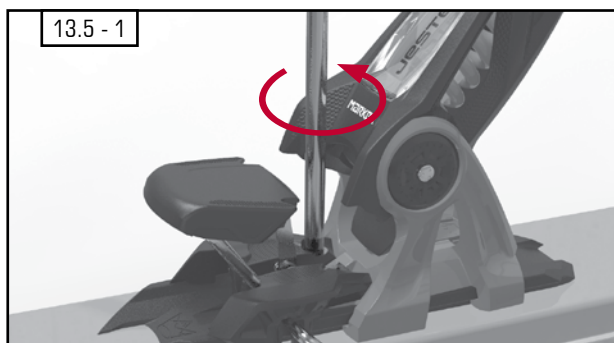
MARKER offers ski brakes with different widths for replacement.

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 - 13.9
- Brake chart see → 20.2

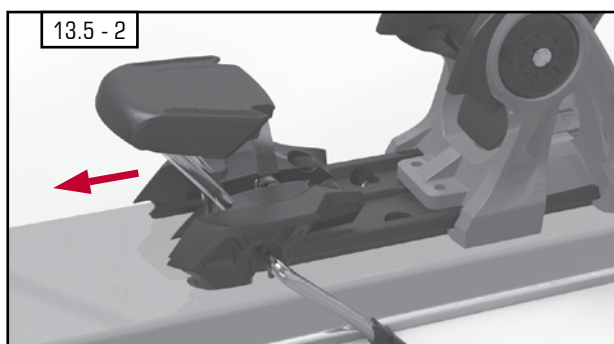
13.5 REPLACING SKI BRAKES



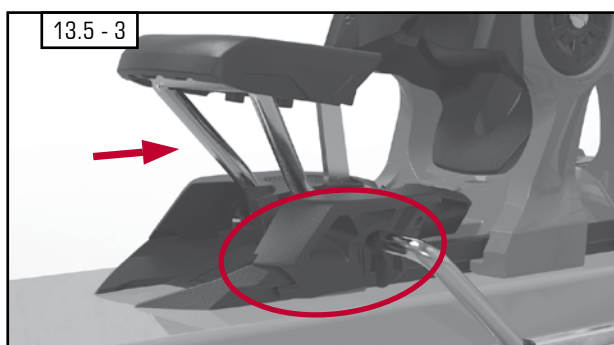
REPLACING THE SKI BRAKES DUKE PT, ROYAL FAMILY, FDT & TOUR:

DEMOUNT THE SKI BRAKE:

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

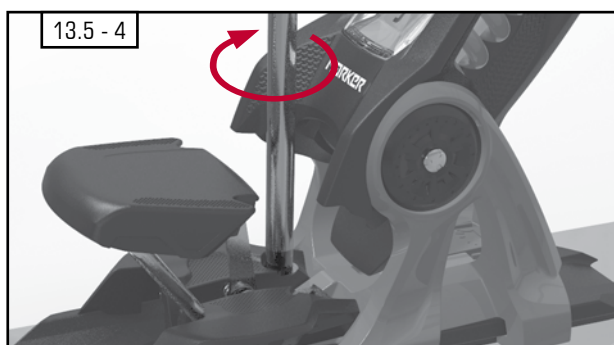


- Pull the ski brake forward to remove (13.5 - 2).



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).

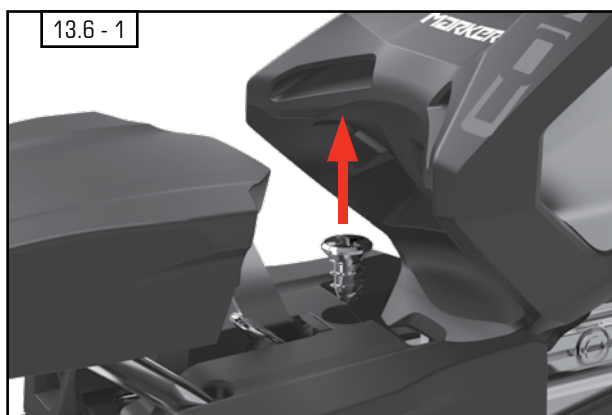


REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 20.2

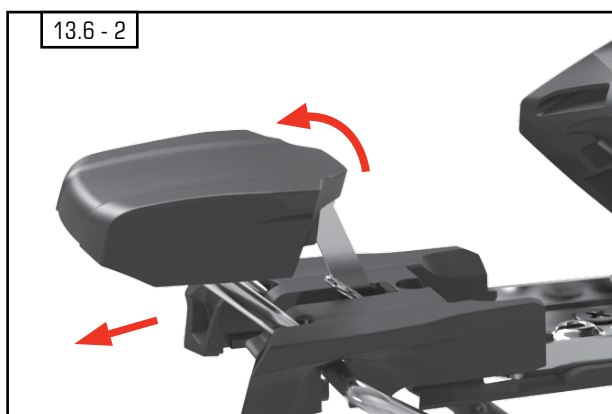
13.6 REPLACING SKI BRAKES



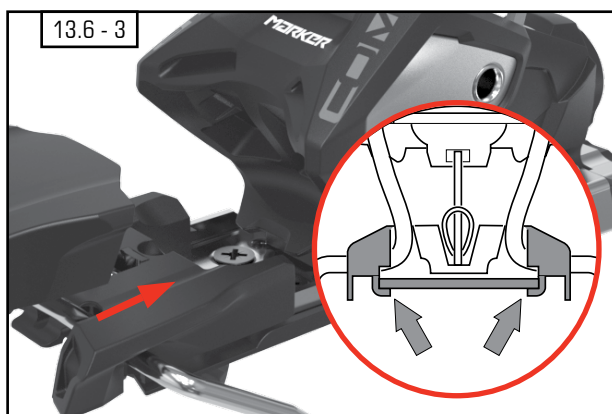
REPLACING THE SKI BRAKES XCOMP, XCELL, RACE 10 & 8, 12.0 TCX, 11.0 TC:

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).

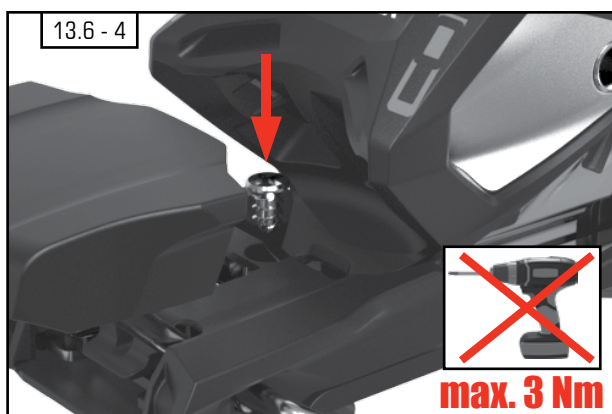


INSTALL THE NEW SKI BRAKE:

- 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).

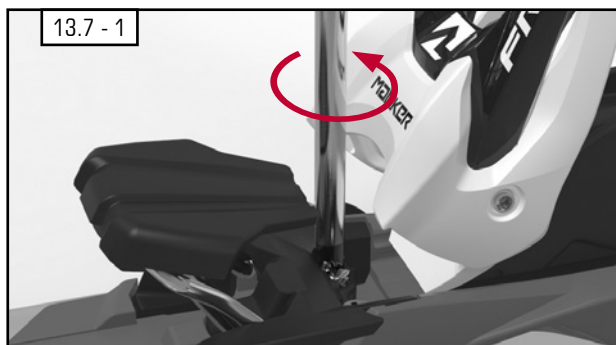


REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 20.2

13.7 REPLACING SKI BRAKES



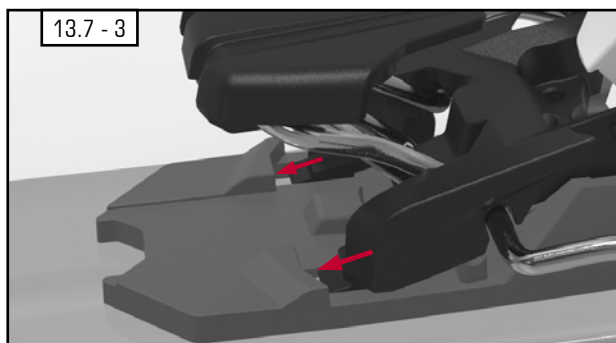
REPLACING THE SKI BRAKES 10.0 TP:

DEMOUNT THE SKI BRAKE:

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

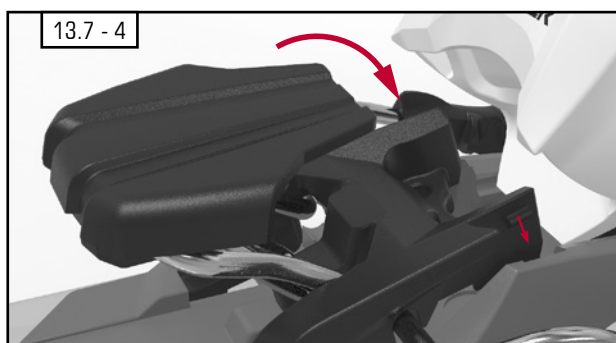


- Pivot the rear brake platform hooks carefully to remove the ski brake (13.7 - 2).



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).

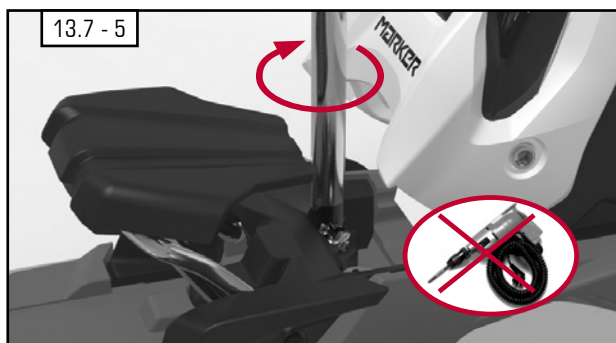


- Tighten the attachment screws carefully by hand (13.7 - 5).



IMPORTANT !

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

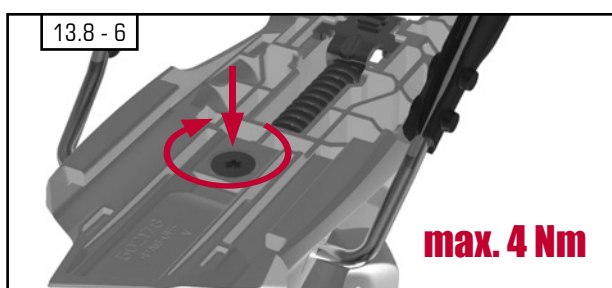
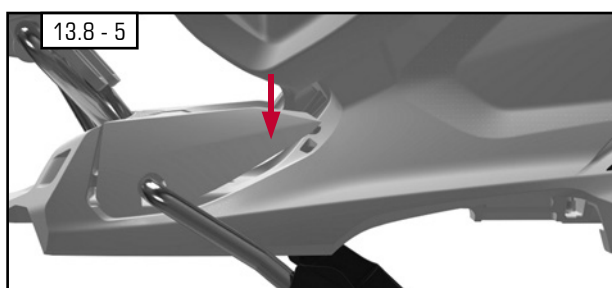
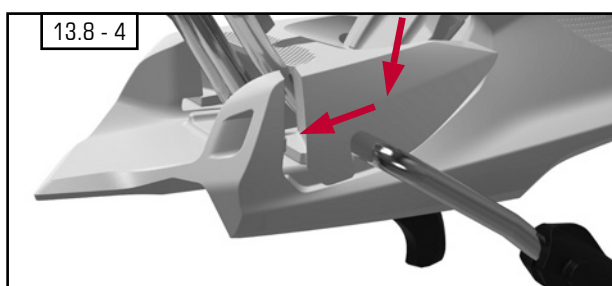
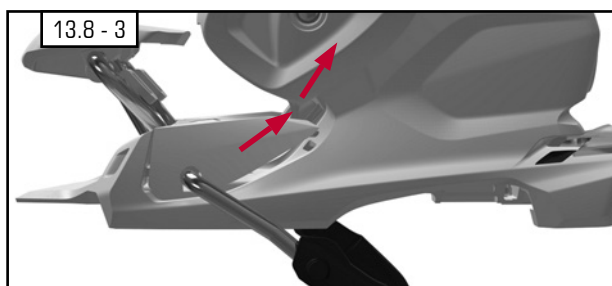
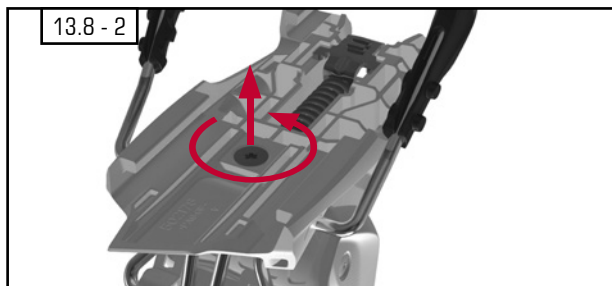
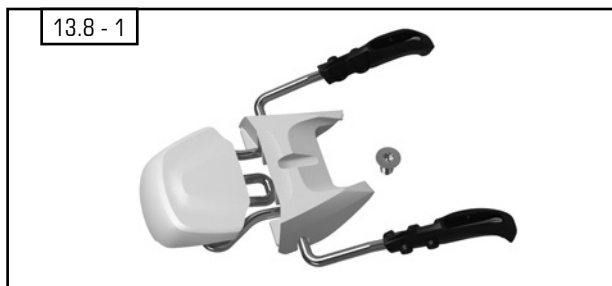


REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 20.2

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 !**

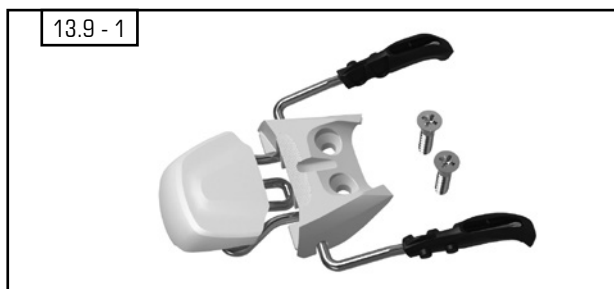
Tighten the screws by hand, do not use a power drill !

REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 20.2

13.9 REPLACING SKI BRAKES

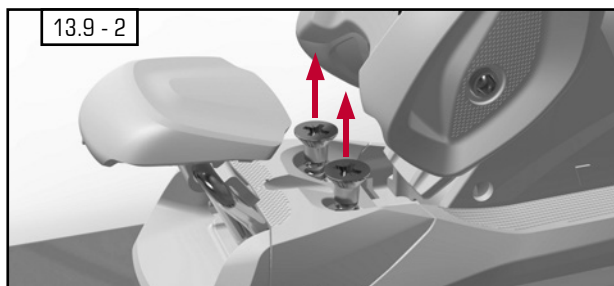


REPLACING THE SKI BRAKES JUNIOR EPS



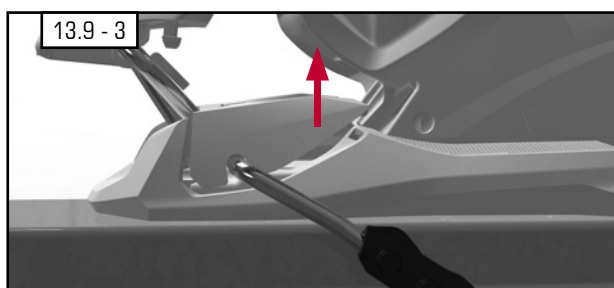
REMARK:

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



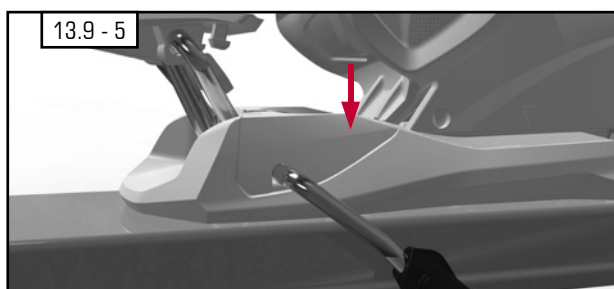
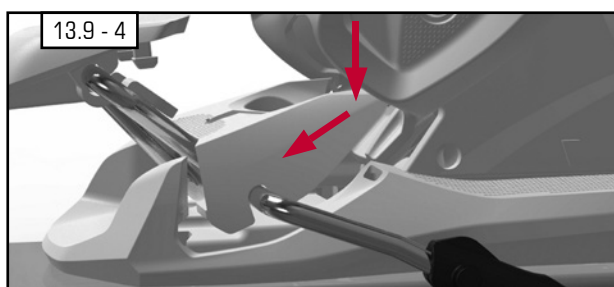
DEMOUNT THE SKI BRAKE:

- 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).



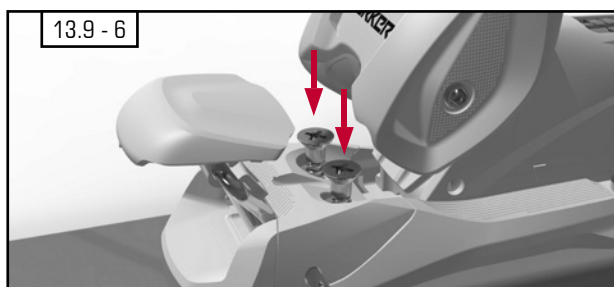
INSTALL THE NEW SKI BRAKE:

- 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 → 20.2

14.1 GENERAL INFORMATION

14.1 - 1



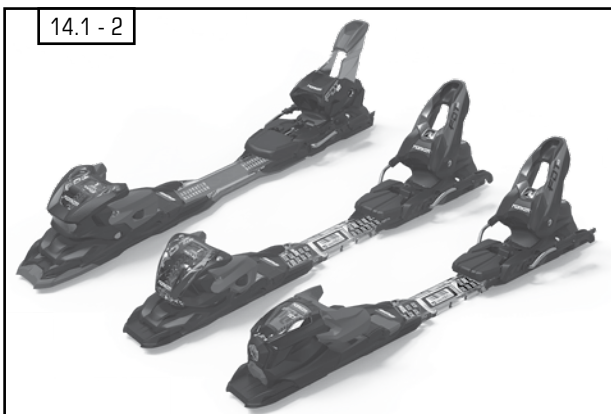
DEFINITION OF GRIFFON D / TCX D & SQUIRE D BINDINGS: (14.1 - 1)

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



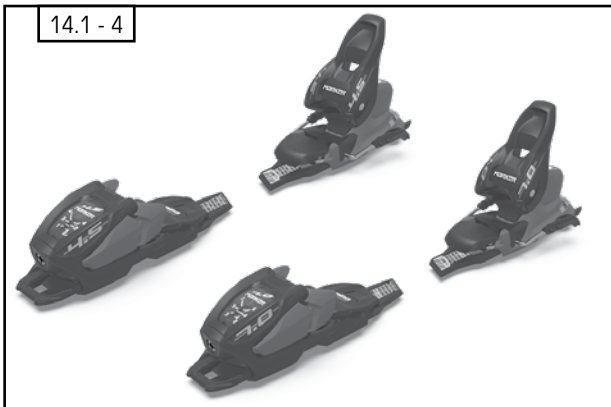
DEFINITION OF JUNIOR RENTAL BINDINGS: (14.1 - 3)

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



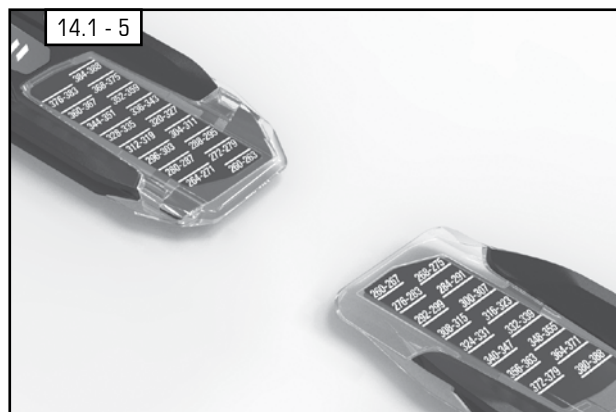
DEFINITION OF FDT JUNIOR BINDINGS: (14.1 - 4)

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

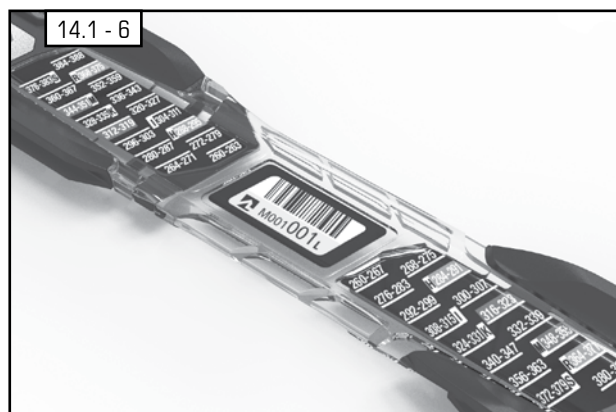


GENERAL INFORMATION BINDING - TO - BOOT ADJUSTMENT

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, 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:

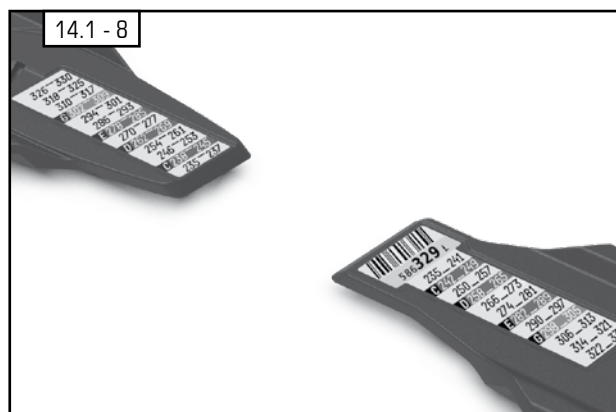
Sole length in mm (260 – 388) is marked on the FDT Demo middle plate. (14.1 - 6)



7.0 RTL / 4.5 RTL:

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

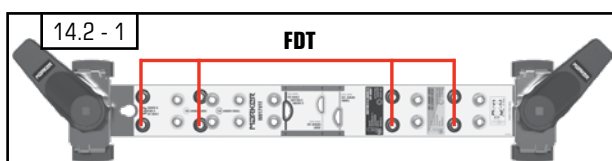
7.0 RTL	Code 54 – 69	240 – 304 mm
4.5 RTL	Code 44 – 59	200 – 264 mm



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 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.

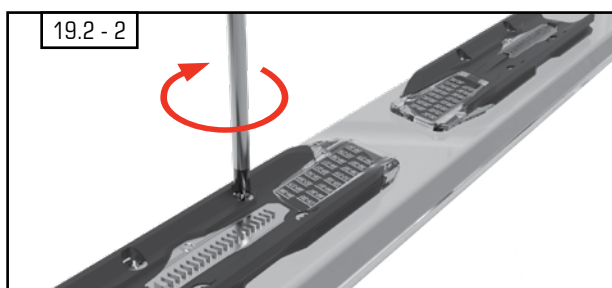
REMARK: (→ 20.3)

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 ISO 5355
- Alpine ski boots for adults ISO 23223 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 W017V1T (or W009P1T / W004Q1T) (14.2 - 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 black marked drill bushings. (W009P1T / W004Q1T: yellow marked 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. (14.2 - 2)

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (14.2 - 3 & 14.2 - 4)

**CAUTION !**

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

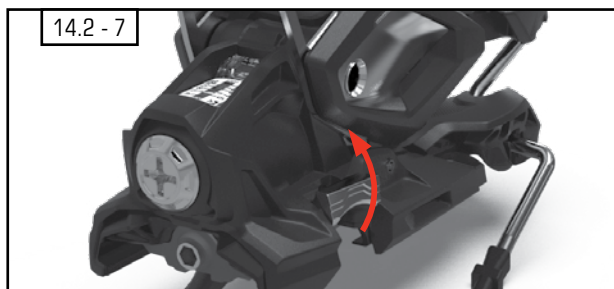
- Slide the toe to the correct sole length in accordance with the front sole length scale. (14.2 - 5)

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



- Close the toe locking lever. (14.2 - 6)

INSTALLING THE HEEL:



- Open the heel locking lever and slide the heel onto the plate starting from the rear. (14.2 - 7)



- Slide the heel forward. (14.2 - 8)



CAUTION !

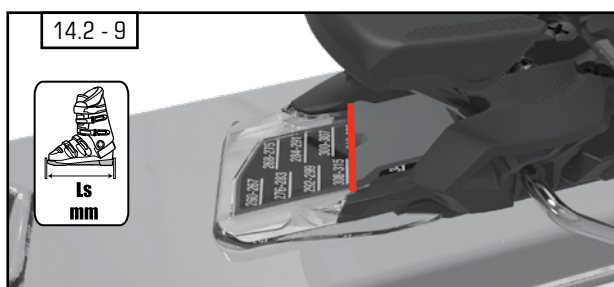
Ensure that the rails of the heel engage both sides of the base plate properly.

- Slide the heel to the correct sole length in accordance with the rear sole length scale. (14.2 - 9)

- Close the heel locking lever. (14.2 - 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. (14.2 - 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.

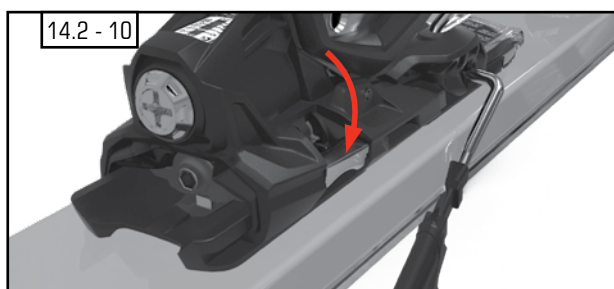
See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 12.1 - 12.3

REMARK:

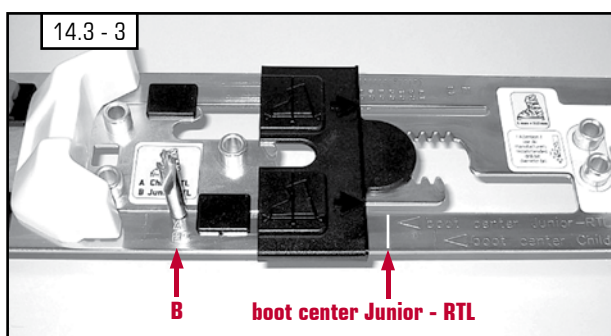
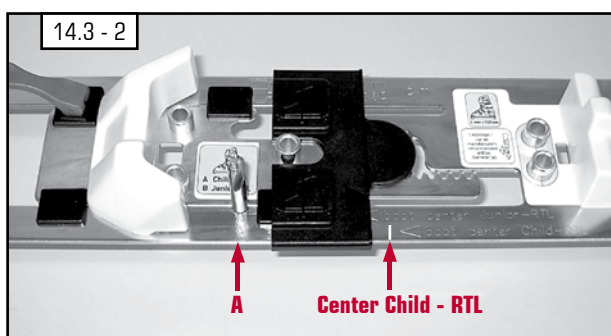
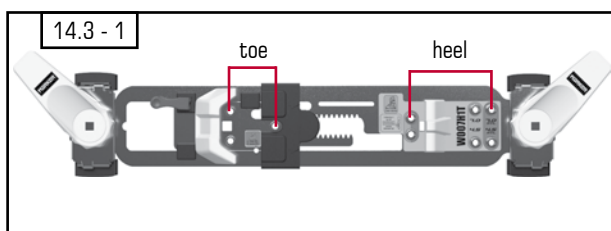
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 14.5



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

14.3 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 ISO 5355 type A
- Junior ski boots ISO 5355 type C
- Alpine ski boots for children ISO 23223 (type C) with the additional marking "GripWalk®"
- Alpine ski boots for adults ISO 23223 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** (14.3 - 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. (14.3 - 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. (14.3 - 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.

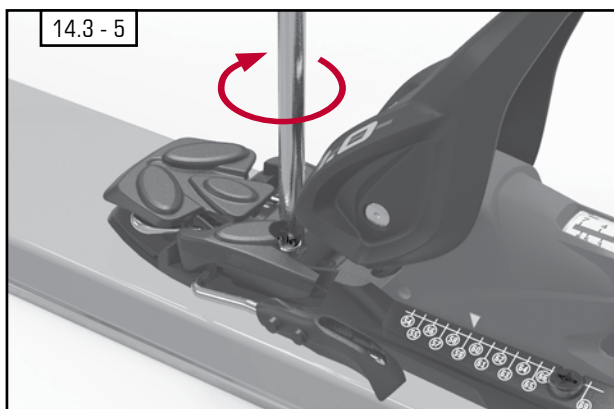
REMARK:

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. (14.3 - 4)

14.3 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. (14.3 - 5)
- Check if all screws are tightened firmly.

ADJUST THE CODE ON THE BINDING: (see 14.1)

REMARK:

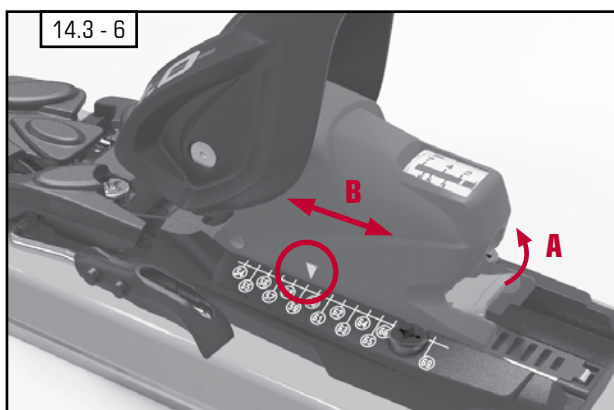
The easiest way to adjust the heel is moving it with open sole-holder.

- 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. (14.3 - 6)
- Close the locking lever to secure heel position.



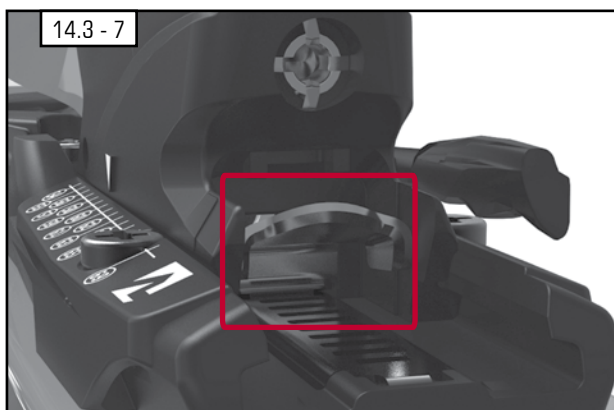
CAUTION !

Ensure that the lever is engaged properly ! (14.3 - 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 (14.3 - 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

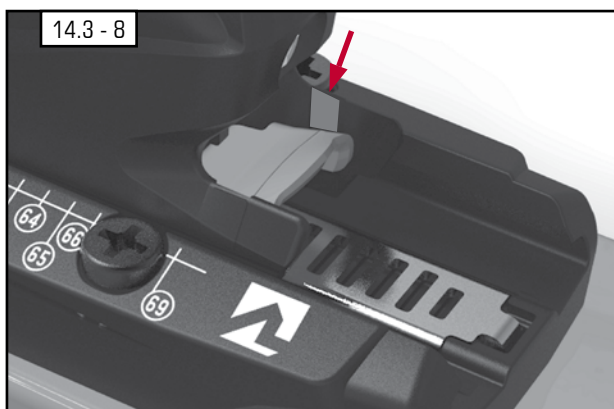
REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:

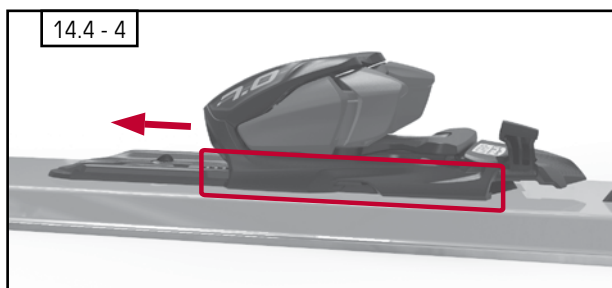
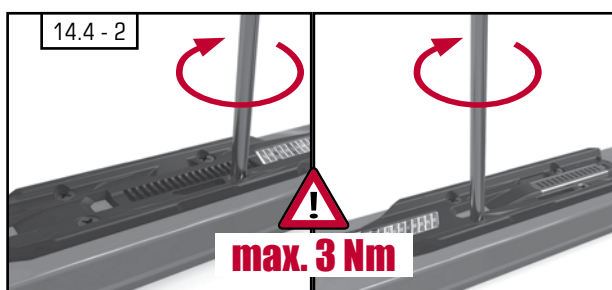
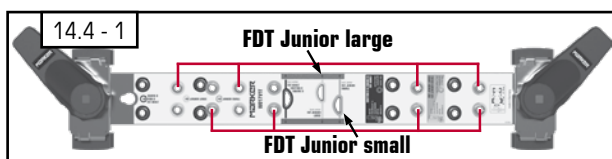
also refer to chapter → 14.5



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 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 ISO 5355 type A
- Junior ski boots ISO 5355 type C
- Alpine ski boots for children ISO 23223 (type C) with the additional marking "GripWalk®"
- Alpine ski boots for adults ISO 23223 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 installation tool W017V1T (or W003H1T) (18.4 - 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 teal marked drill bushings.
- »FDT Junior large«: Drill 4 holes for the front plate and 4 holes for the heel plate through the yellow marked drill bushings. (W003H1T: yellow / purple)
- 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. (14.4 - 2)

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (14.4 - 3 & 14.4 - 4)



CAUTION !

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

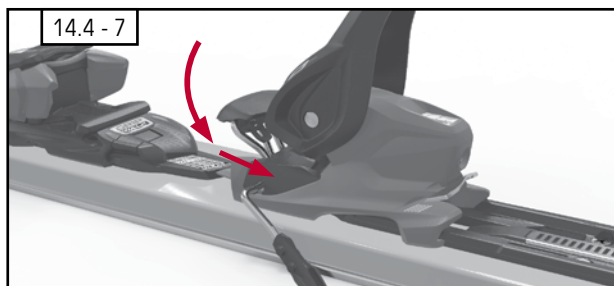
- Slide the toe to the correct sole length in accordance with the front sole length scale. (14.4 - 5)
- Close the toe locking lever. (14.4 - 5)

14.4 INSTALLATION OF FDT 7.0 / FDT 4.5 GRIPWALK



INSTALLING THE HEEL:

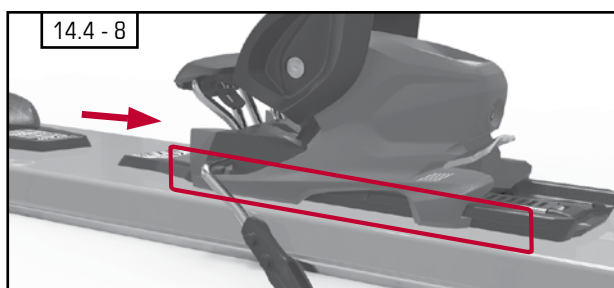
- Open the heel locking lever and slide the heel onto the plate starting from the center. (14.4 - 6 & 14.4 - 7)
- Slide the heel backward. (14.4 - 8)



CAUTION !

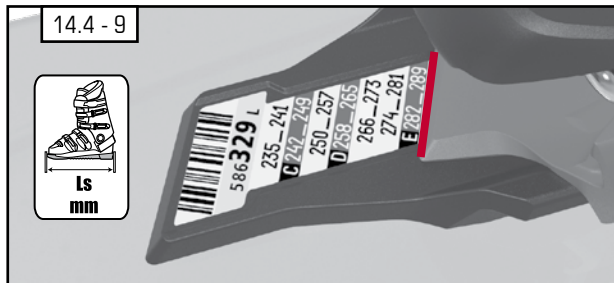
Ensure that the rails of the heel engage both sides of the base plate properly.

- Slide the heel to the correct sole length in accordance with the rear sole length scale. (14.4 - 9)
- Close the heel locking lever. (14.4 - 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. (14.4 - 11)
If the forward pressure is incorrect: remove the ski boot, lift the lever and move the heel until the forward pressure is correct.

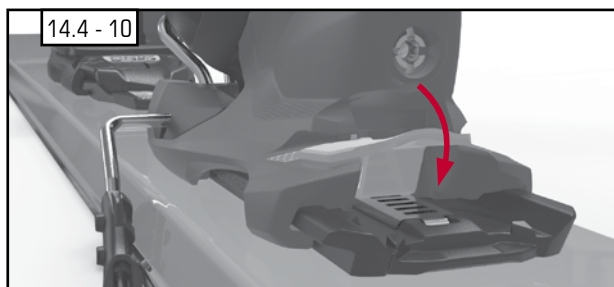


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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.

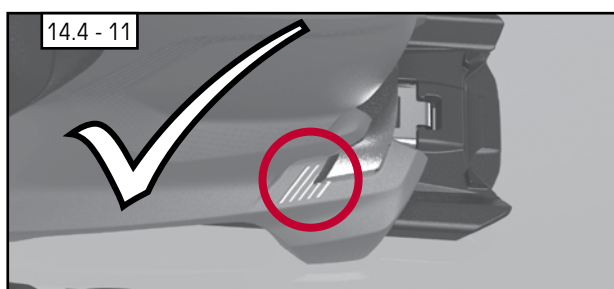
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:
also refer to chapter → 14.5



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 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 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.

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 → 12.1 - 12.3).
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.

14.5 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, (→ 2.4) "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.

14.5 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 78,171)
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.

14.5 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.

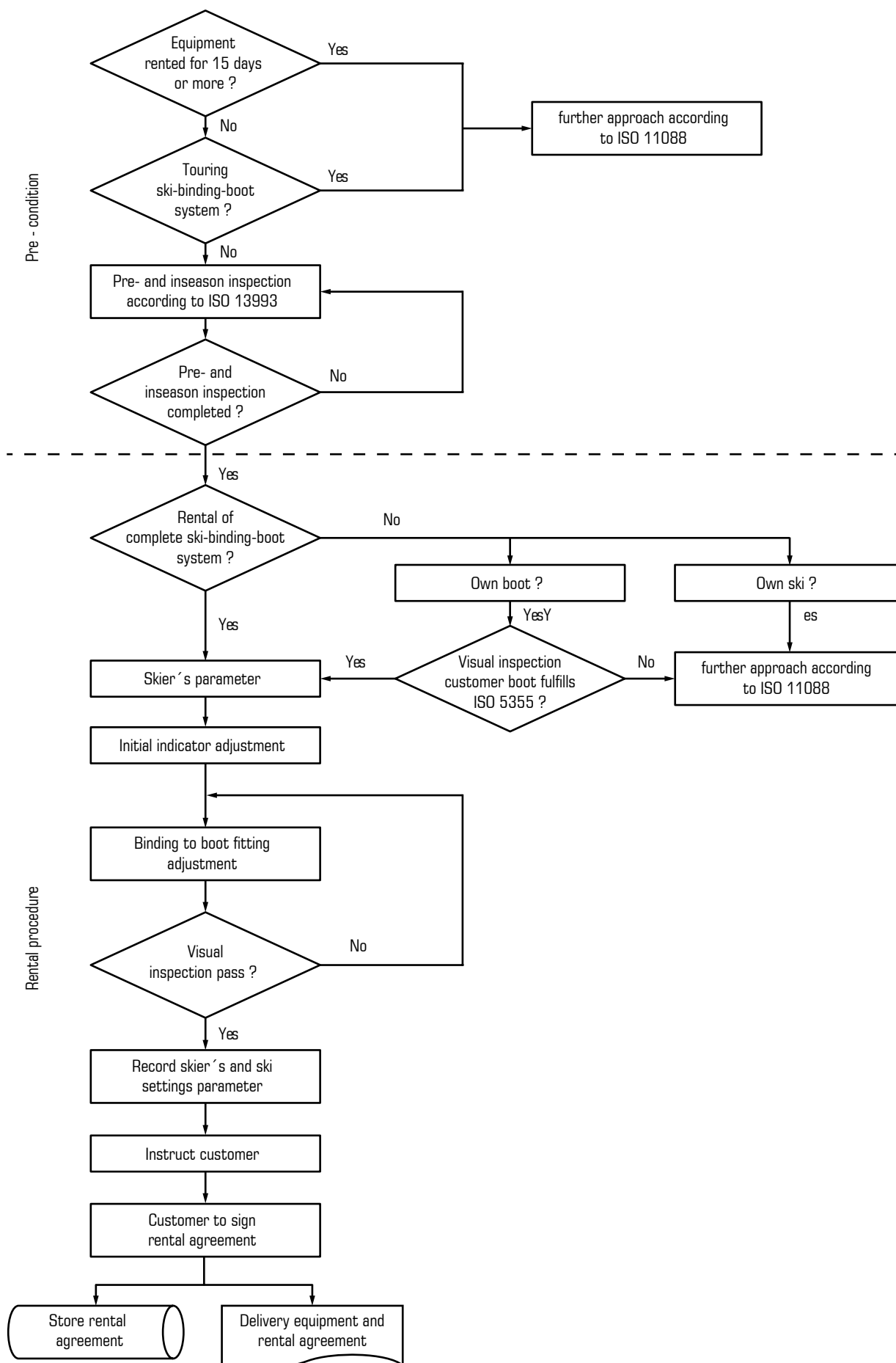
- Explain the binding function and how it releases.
- Point out the visual indicator settings on the binding. Ask the skier to verify that these settings agree with the settings recorded on the workshop form.
- Explain and show the customer how to step in and release the binding.
- Point out that a shift 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.

14.6 OVERVIEW OF RENTAL PROCEDURE



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 Warranty Plan. Contact MARKER for details by phone visit the warranty support page.

1.800.972.4062 visit <https://markerbindings.com/en-us/support/warranty>

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.

15.2 WARRANTY

WARRANTY RETURN INFORMATION

MARKER Authorized retailers must call or fill out the Warranty Form on the MARKER site for a Return Authorization (RA) number before shipping product.

1.800.972.4062 or <https://markerbindings.com/en-us/support/warranty>

When filling out the Warranty form for an RA, please be sure to include the following information:

1. Product name and model.
2. Description of the problem and photos that clearly show the problem with the product.
3. Proof of purchase and purchase date.

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

1. Write the RA number on the outside of the box.
2. Describe the problem thoroughly and mark the problem area if necessary.
3. Include customer information and proof of purchase if available.
4. 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 ISO 5355 / GripWalk ISO 23223 / AT ISO 9523)**
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.
→ **20.5 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.

→ 20.7

SPECIAL WARNING & AGREEMENT RELEASE WAIVER



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.

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!

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 release value setting and / or skier code.

- Explain the bindings compatibility with boot sole types.
(ISO Alpine boot sole only Compatible)
-or-
(ISO Alpine and Gripwalk ISO 23223 Compatible)
-or-
(ISO Alpine, Gripwalk ISO 23223 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

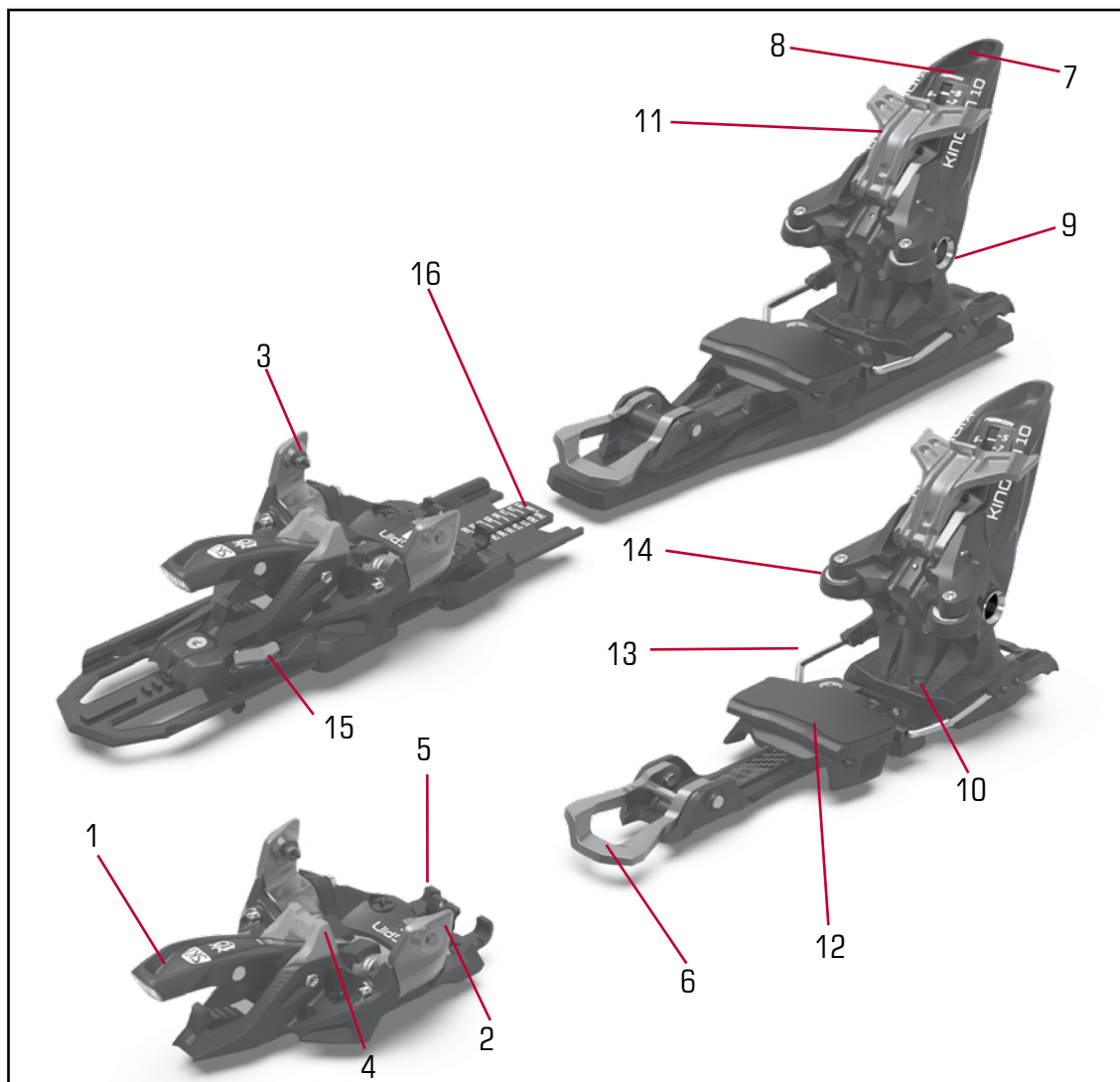
- The skier must read, understand and agree to the conditions specified in the workshop form and / or any release agreement.
- Make sure that the skier signs the workshop form and /or the release agreement. If the skier is a minor, this document should be signed by a parent or a legal guardian.
- A copy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

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
- 15 - Demo length adjustment lever
- 16 - Demo front plate with length scale



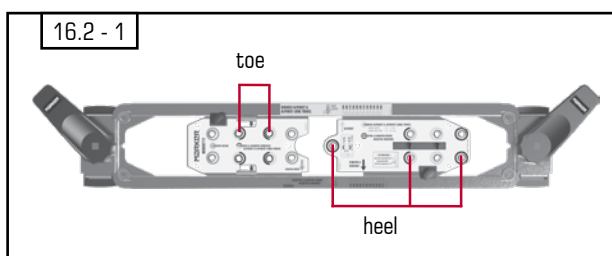
CAUTION !
MARKER KINGPIN, KINGPIN MWERKS & KINGPIN DEMO ski bindings do not meet ISO Certification.



CAUTION !
 MARKER KINGPIN, KINGPIN MWERKS and KINGPIN DEMO ski bindings are compatible with ski boots in accordance with 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



DRILLING THE ATTACHMENT HOLES:

IMPORTANT !



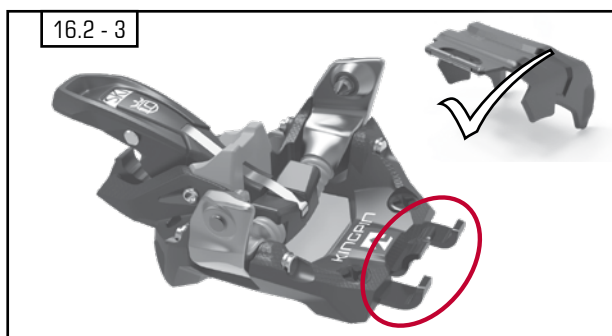
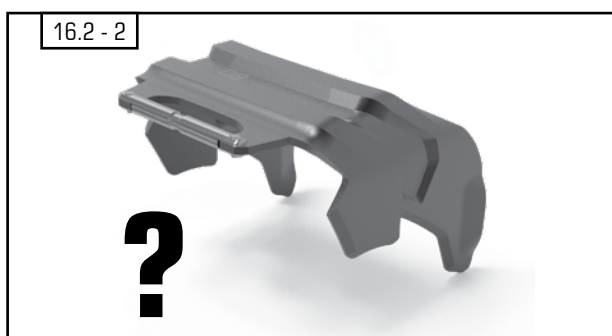
sole length	tool length settings
255 - 269 mm	270 mm
376 - 390 mm	375 mm

ADJUSTMENT OF THE INSTALLATION TOOL → 3.2

- Place the MARKER KINGPIN & ALPINIST installation tool W020X1T 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:

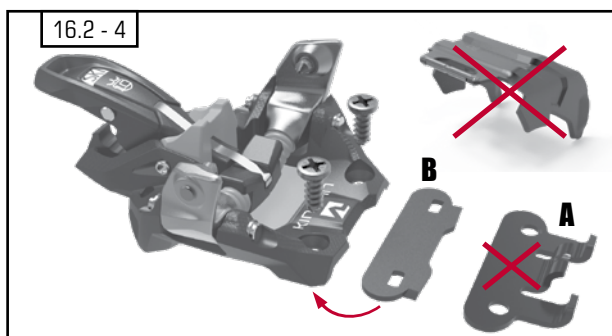
See DRILLING INSTRUCTIONS → 3.2



INSTALLING THE TOE:

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

MOUNTING OPTION A with crampon holder (16.2 - 3)



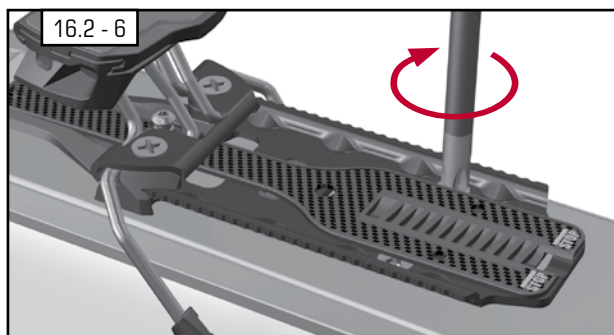
MOUNTING OPTION B without crampon holder (16.2 - 4)

- For mounting the toe without crampon holder remove the premounted crampon holder A and replace it by the enclosed spacer B.

16.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS

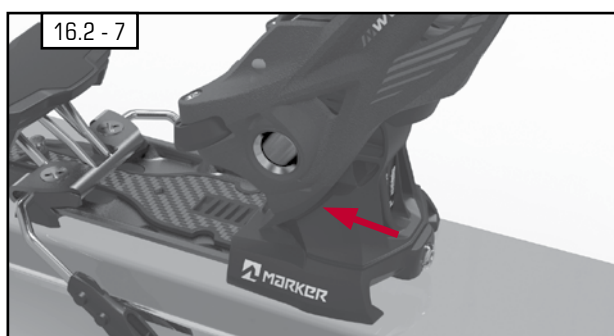


- Install the toe with the pre - installed screws in the front holes.
- Mount the enclosed screws, tighten all screws lightly by hand, do not tighten them firmly. (16.2 - 5)



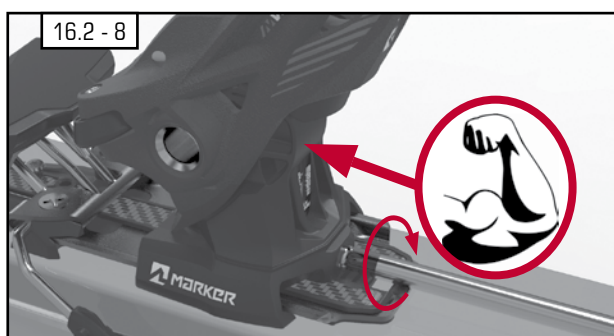
INSTALLING THE HEEL PLATE:

- 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)



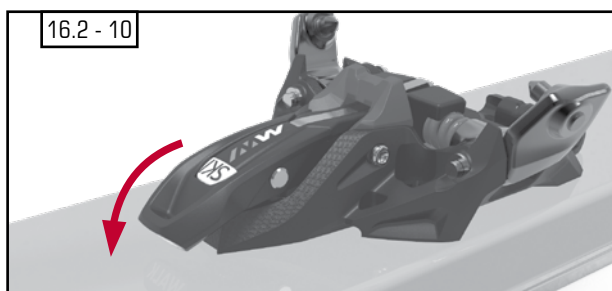
- With strong pressure, screw the heel forward onto the plate by turning the forward pressure adjustment screw. (16.2 - 8)



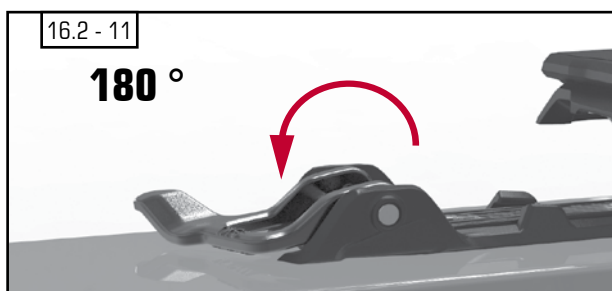
CAUTION !

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

16.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS



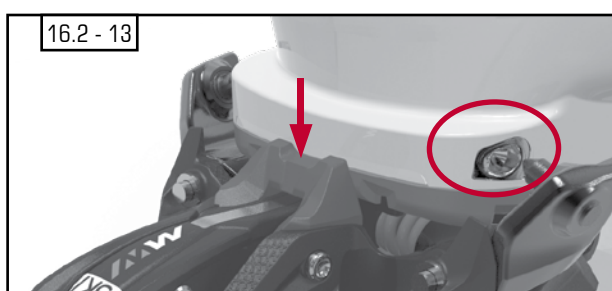
- Open the toe by pressing down the toe opening lever. (16.2 - 10)



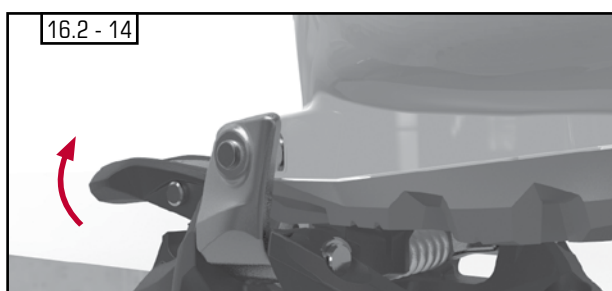
- Switch the change-over lever 180° forward. (16.2 - 11)



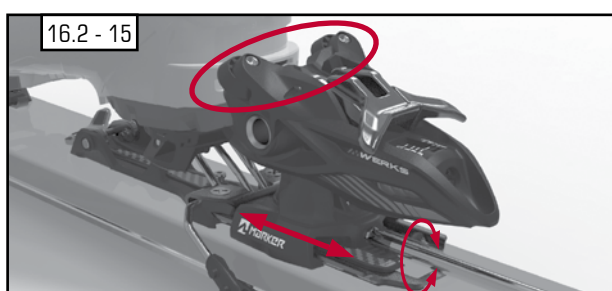
- Open the heel. (16.2 - 12)



- 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:

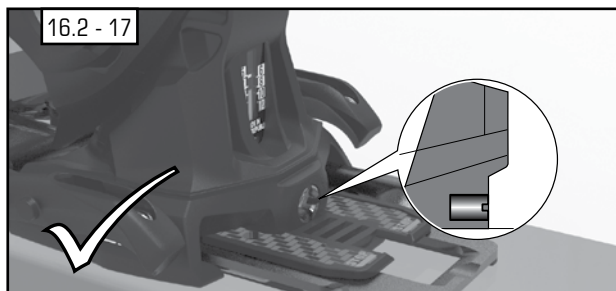
- Place the ski boot into the binding and turn the adjustment screw until the position of the heel is approximately right. (16.2 - 15)

16.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS

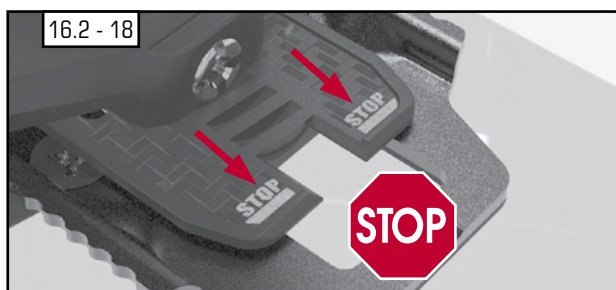


CHECK FORWARD PRESSURE:

- 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)



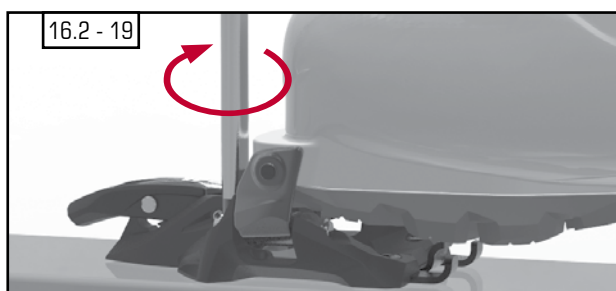
- Remove the ski boot, then re - insert it into the binding and recheck the adjustment..



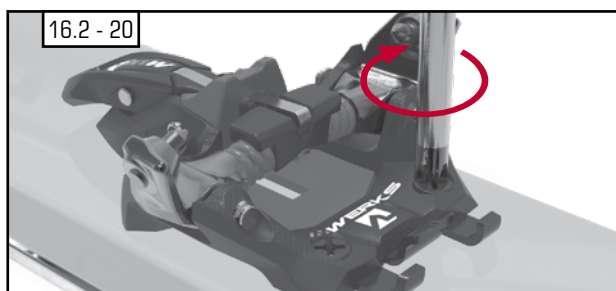
IMPORTANT SAFETY ADVICE !

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)



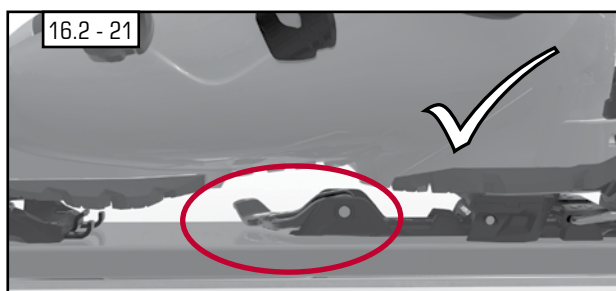
CAUTION !

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)

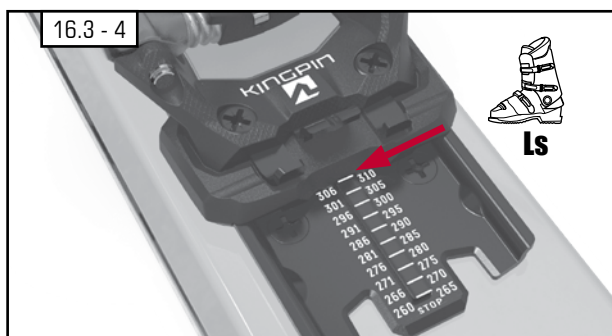
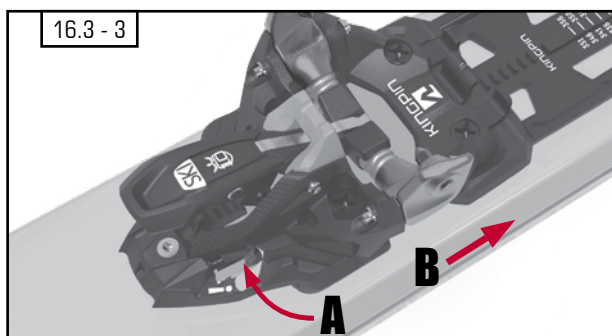
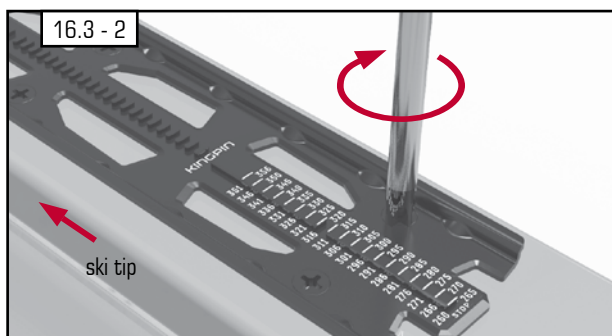
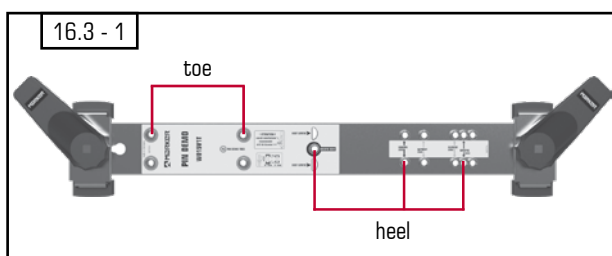
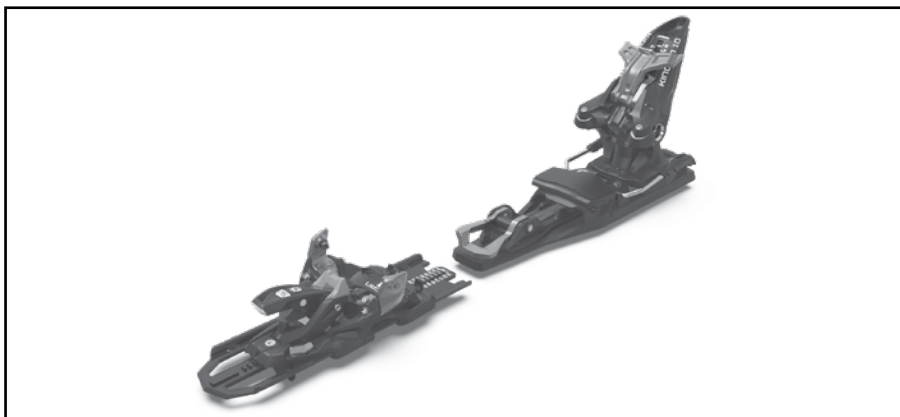


CAUTION:

MARKER KINGPIN & KINGPIN MWERKS ski bindings do not meet ISO Certification. The product meets the current technical requirements using the latest technology.



16.3 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS



DRILLING THE ATTACHMENT HOLES:

- Place the MARKER PIN DEMO installation tool W015V1T in the correct position on the ski. (16.3 - 1)
- Drill 4 holes for the toe through the front orange marked 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

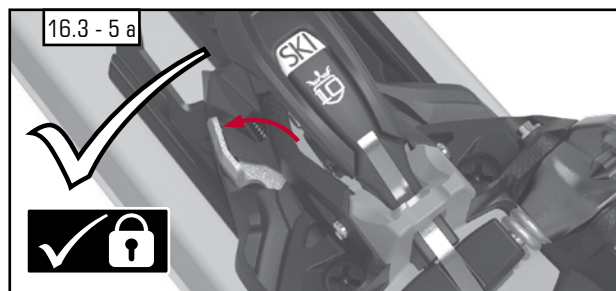
INSTALLING THE TOE PLATE:

- Place the toe plate onto the ski.
- Insert the enclosed screws. Tighten the screws lightly, then firmly. (16.3 - 2)

INSTALLING THE TOE:

- Open the locking lever (A) and slide the toe with lever open from the front of the plate backward (B). (16.3 - 3)
- Slide the toe backward to the correct sole length in accordance with the sole length scale. (16.3 - 4)

16.3 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS

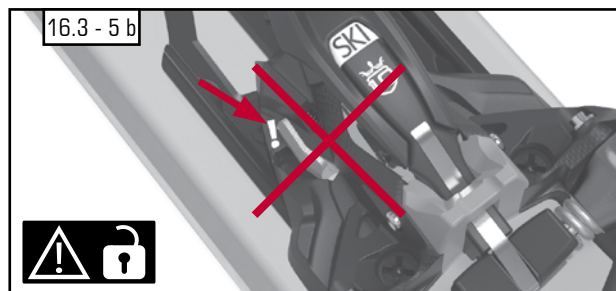


- Close the locking lever. (16.3 - 5 a)



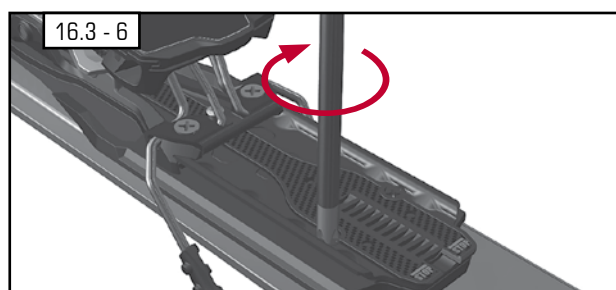
CAUTION !

Ensure that the lever is engaged properly !
Visually check locking mechanism: when locking the system the opening lever has to snap into the basic position. The warning symbol must not be visible ! (16.3 - 5 b)



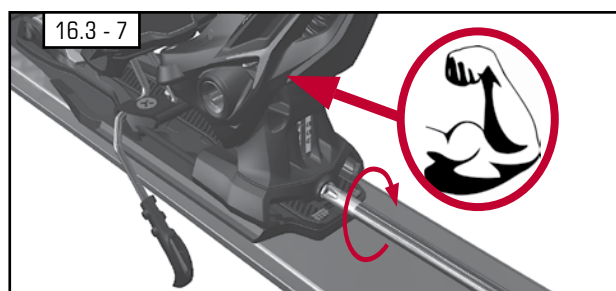
INSTALLING THE HEEL PLATE:

- Install the heel plate with the pre - installed screws in the rear holes.
- Tighten the screws lightly, then firmly. (16.3 - 6)



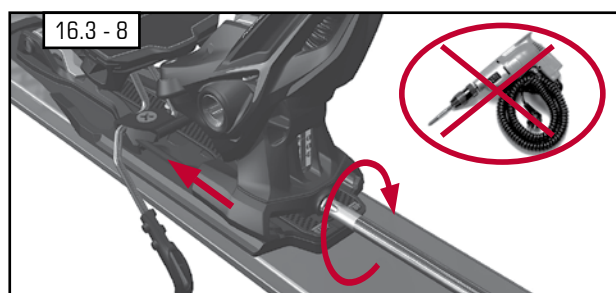
INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops. (16.3 - 7)
- With strong pressure, screw the heel forward onto the plate by turning the forward pressure adjustment screw. (16.3 - 8)



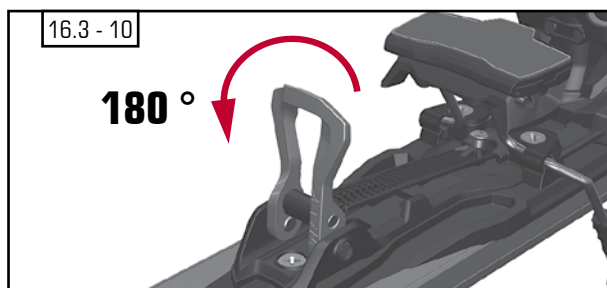
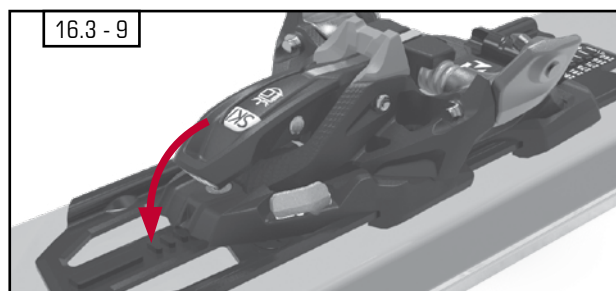
CAUTION !

Screw the heel onto the heel plate by hand !



- Open the toe by pressing down the toe opening lever. (16.3 - 9)

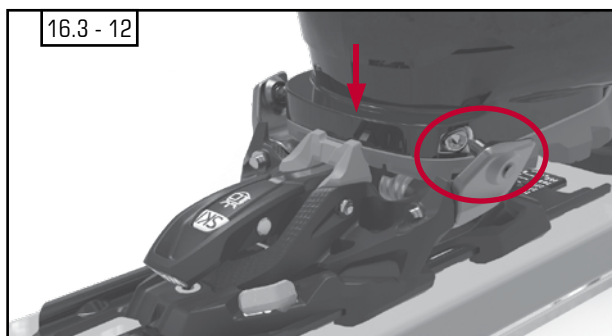
- Switch the change-over lever 180° forward. (16.3 - 10)



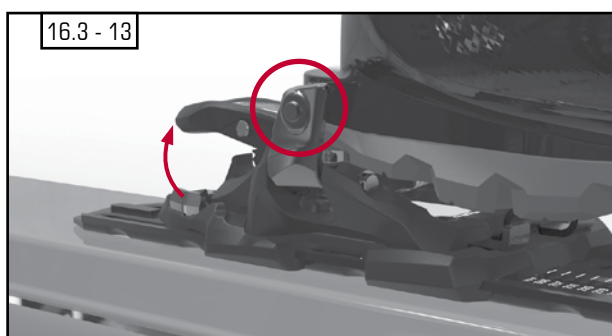
16.3 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS



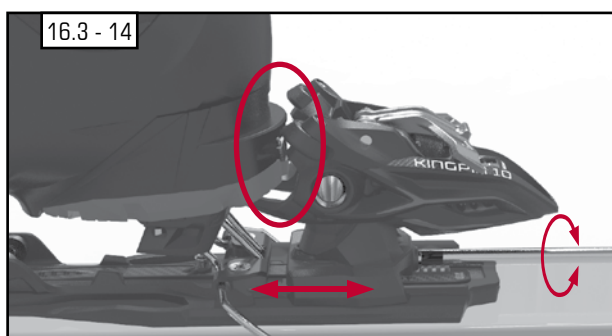
- Open the heel. (16.3 - 11)



- 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. (16.3 - 12)



- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (16.3 - 13)



POSITIONING THE HEEL:

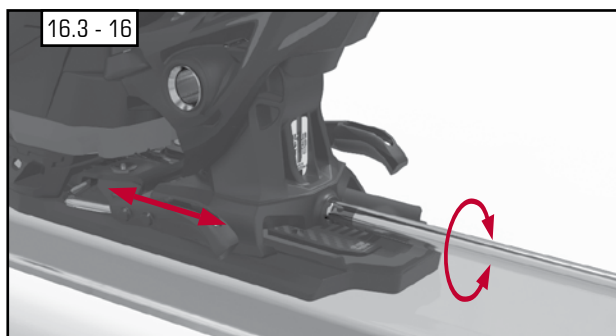
- Place the ski boot into the binding and turn the adjustment screw until the position of the heel is approximately right. (16.3 - 14)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it. (16.3 - 15)

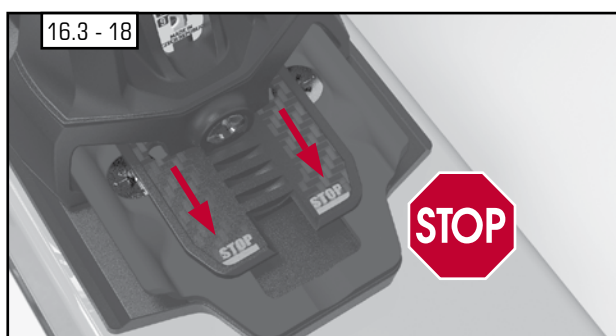
16.3 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS



- 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. (16.3 - 16 and 16.3 - 17)

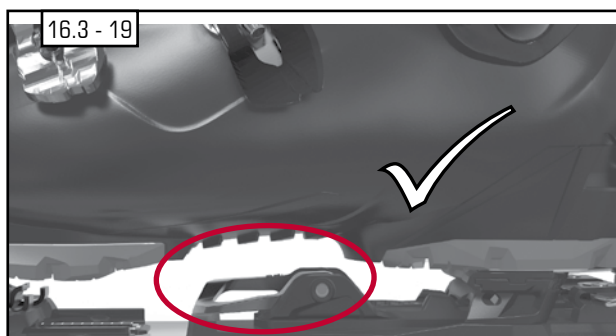


- Remove the ski boot, then re - insert it into the binding and recheck the adjustment.



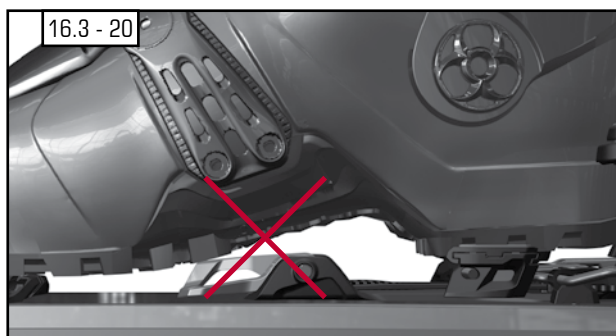
IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (16.3 - 18)



CAUTION !

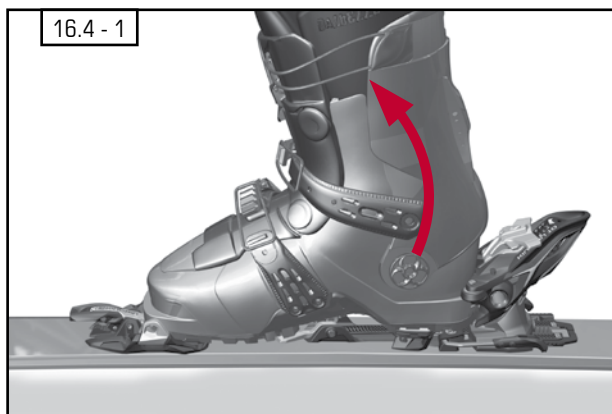
After altering the binding, visually inspect the spacing between the boot sole and the change-over lever: the sole may not touch the lever after stepping in ! (16.3 - 19 and 16.3 - 20)



CAUTION !

MARKER KINGPIN DEMO ski bindings do not meet ISO Certification. The product meets the current technical requirements using the latest technology.

16.4 MARKER KINGPIN - INFORMATION FOR BINDING ADJUSTMENT



BINDING RELEASE FORCE ADJUSTMENT SCREWS AND RELEASE VALUE INDICATOR SCALES

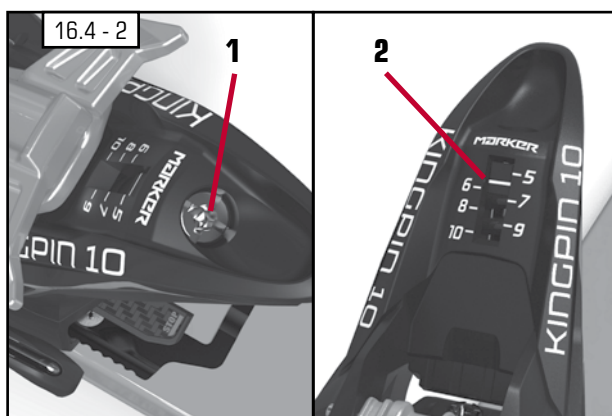
REMARK:

MARKER recommends adjustment with a Pozidriv® 3 screwdriver.

ADJUSTMENT SCREWS AND INDICATOR SCALES ON THE HEEL

VERTICAL RELEASE (16.4 - 1)

- Turn the adjustment screw (1) until the indicator line aligns with the selected release setting on the indicator scale (2). (16.4 - 2)

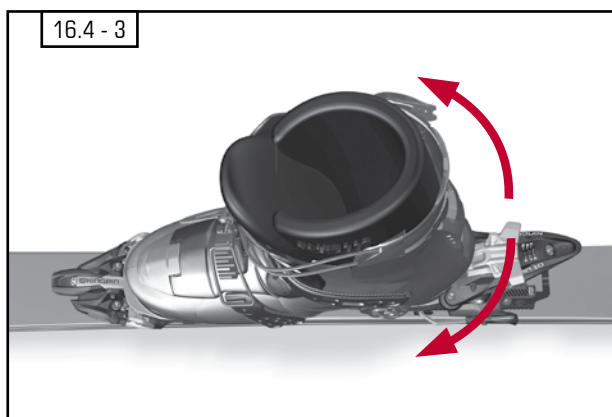


LATERAL RELEASE (16.4 - 3)

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). (16.4 - 4)



FUNCTION TEST AND SERVICE

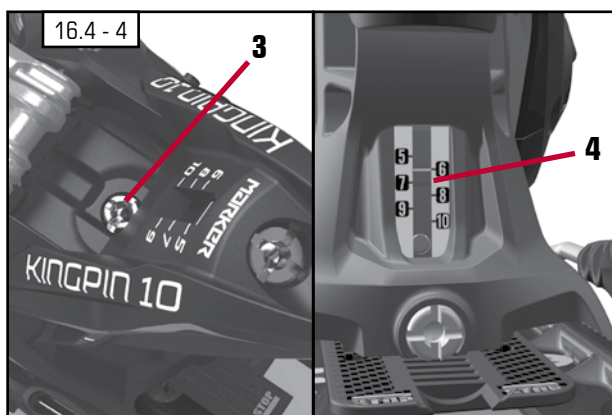
KINGPIN bindings can be tested without restrictions on and with standard setting and calibration equipment.

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.

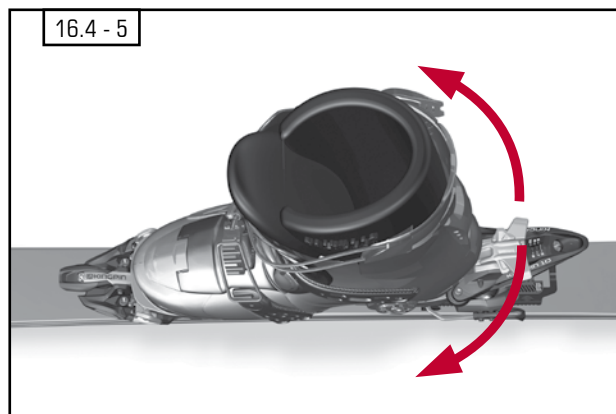
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 12.1 - 12.3



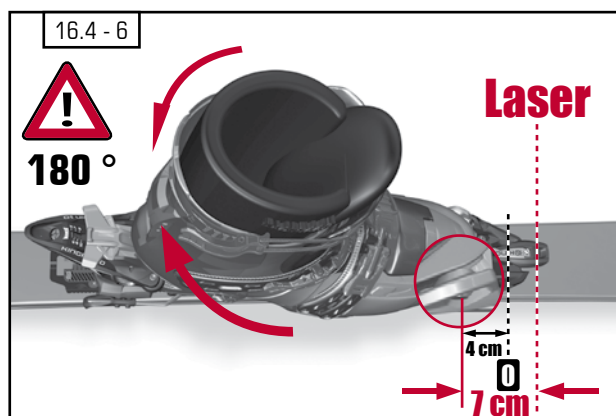
CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

16.4 MARKER KINGPIN - INFORMATION FOR BINDING ADJUSTMENT



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

The process for equipment that works purely based on torque is as usual. (16.4 - 5)

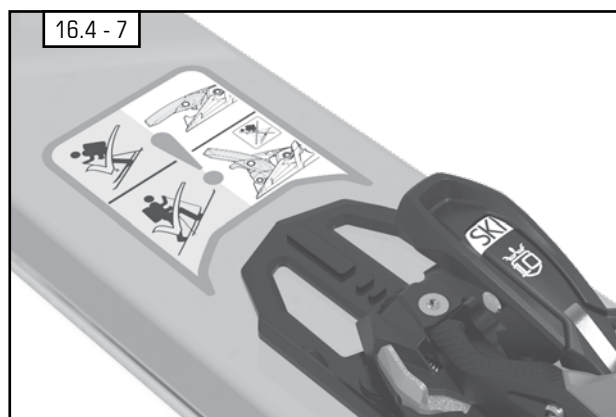


For equipment that initiates a trigger via a lever arm to which force is applied, the ski has to be inserted the other way round. (The tip of the ski points in the opposite direction to normal). (16.4 - 6)

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 setting tools, please contact the Marker sales department or the manufacturer of the setting tool.



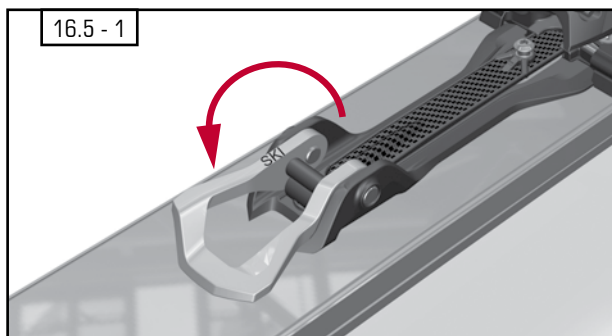
REMARK:

When mounting the binding make sure that you fit the enclosed stickers to the ski. (16.4 - 7)



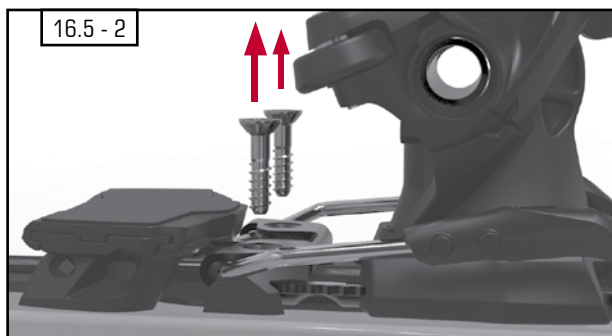
KINGPIN
THE NEW POWER IN TOURING

16.5 MARKER KINGPIN REPLACING BRAKES / INSTALLATION OF GLIDING AFD

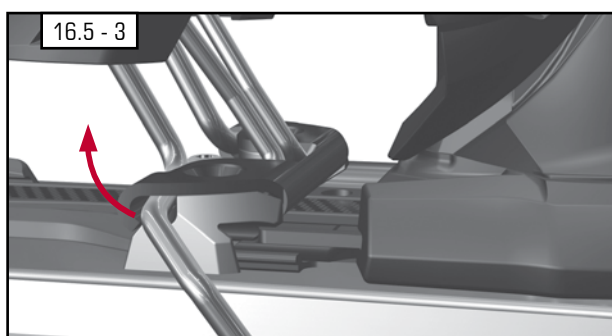


DEMOUNT THE SKI BRAKE:

- Switch the change-over lever 180° forward to the "Ski" position. (16.5 - 1)

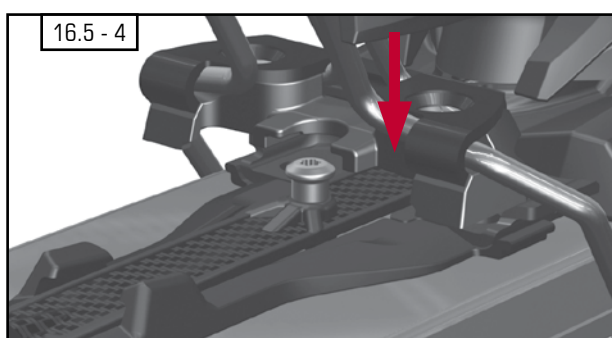


- Remove the attachment screws of the ski brake. (16.5 - 2)

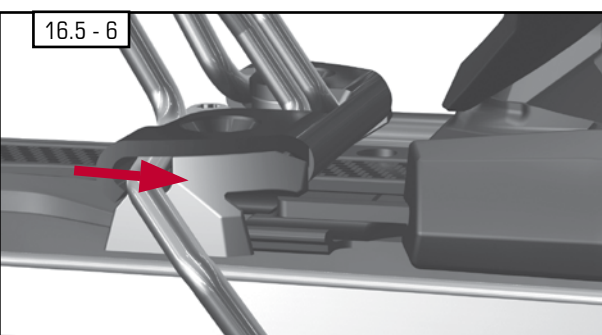


- Pull the ski brake slightly forward and upward to remove. (16.5 - 3)

INSTALL THE KINGPIN BRAKE:

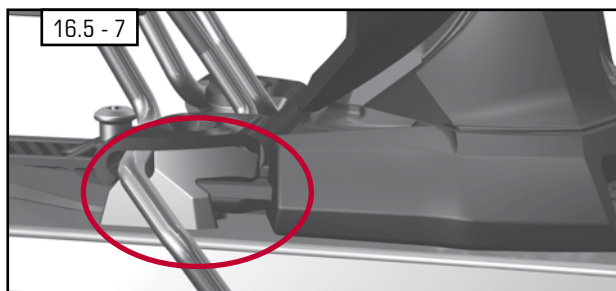


- Mount the brake from top to the heel plate. (16.5 - 4)



- Slide the brake backward onto the heel plate. (16.5 - 5 and 16.5 - 6)

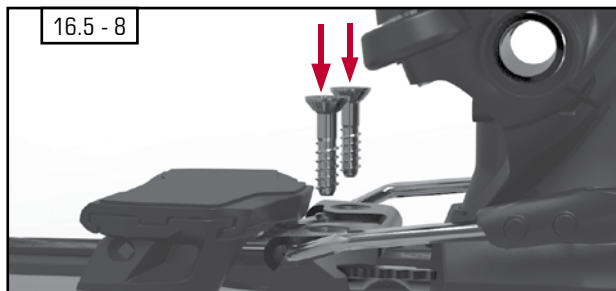
16.5 MARKER KINGPIN REPLACING BRAKES / INSTALLATION OF GLIDING AFD



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 ! (16.5 - 7)

- Install the attachment screws and tighten them by hand. (16.5 - 8)



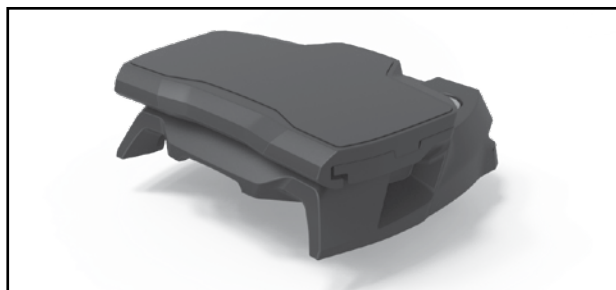
INSTALLATION OF THE KINGPIN GLIDING AFD:

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

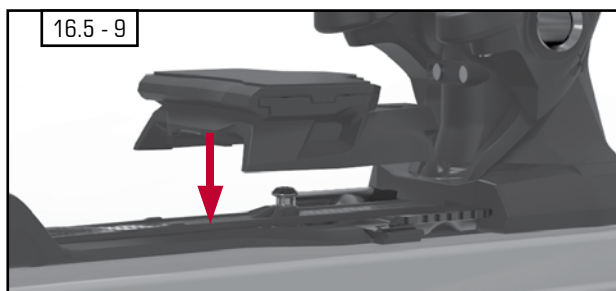


CAUTION !

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



- Remove the brake as described under 16.3 - 1, 16.5 - 2 and 16.5 - 3.
- Mount the gliding AFD from top to the heel plate, ensure that the screw points align with the drilled holes. (16.5 - 9)
- Install the attachment screws and tighten them by hand. (16.5 - 10)



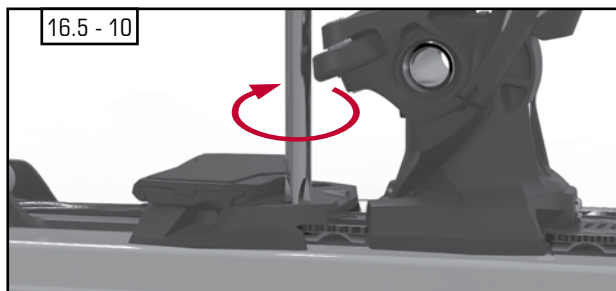
IMPORTANT SAFETY ADVICE !

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.

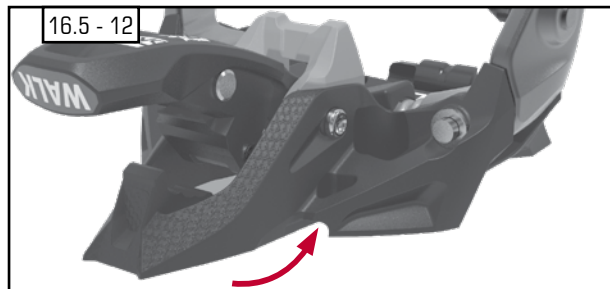
REMARK:

MARKER offers a special Kingpin & Alpinist safety leash. (16.5 - 11) 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. (16.5 - 12)



16.6 MARKER KINGPIN - INFORMATION FOR THE SKIER

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 release 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 & KINGPIN DEMO** ski bindings do not meet any ISO Certification and therefore the release function does not need to be tested to verify function release.

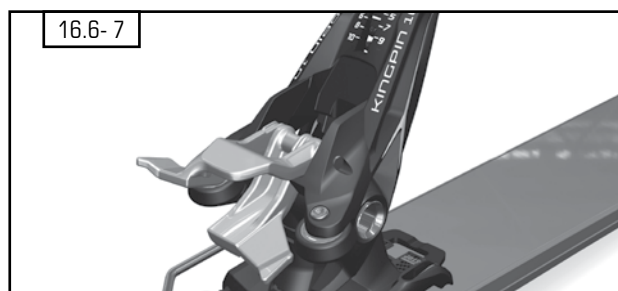
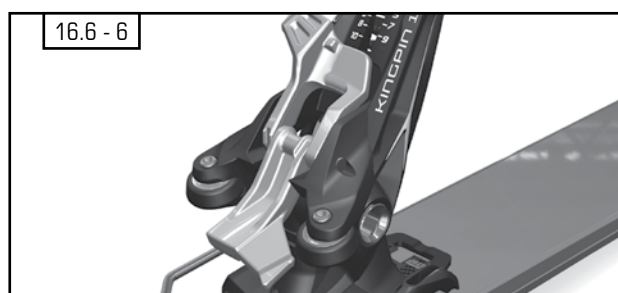
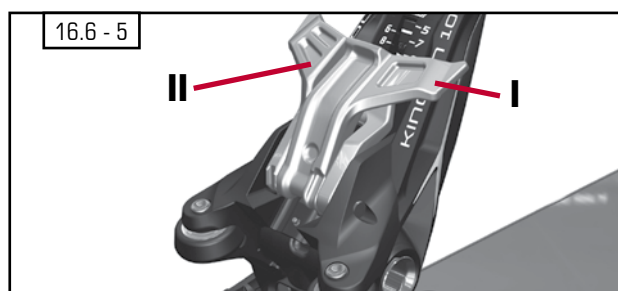
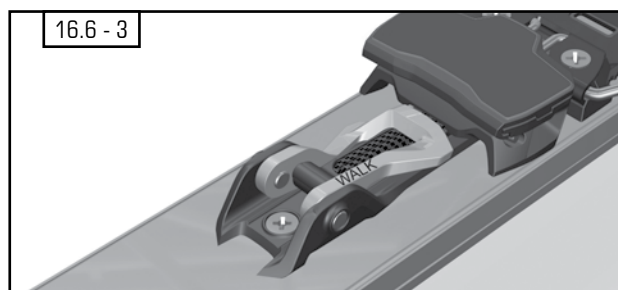
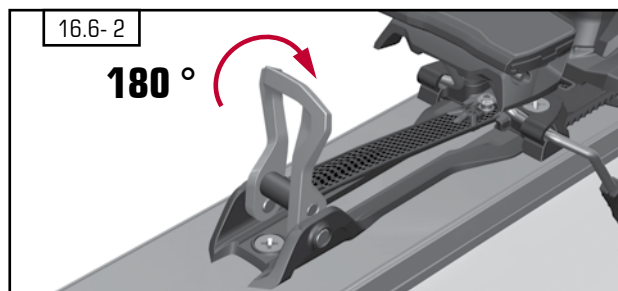
Show where the release adjustment screws are located and explain the visual indicators on the binding and how they do not directly correlate to the initial indicator values on the adjustment chart, but serve as a good starting point for binding setup.

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 → 16.7

16.6 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 (16.6-1, 16.6-2 and 16.6-3)
- With the boot toe engaged with the toe piece of the binding lift up on the toe lever to the (WALK) position. (16.6-4) 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. (16.6 - 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. (16.6 - 6)

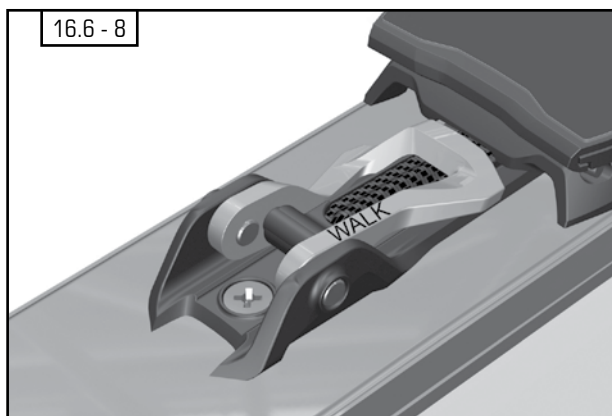
HIKING AID HIGH POSITION:

- 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. (16.6 - 7)

HIKING AID BASIC POSITION:

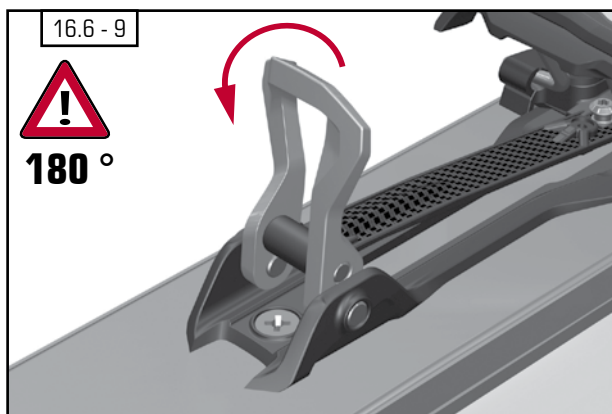
- Fold the hiking aids back into the starting position individually or together with the pole disc, or by brushing along the heel opening lever with the tip of the pole.

16.6 MARKER KINGPIN - INFORMATION FOR THE SKIER

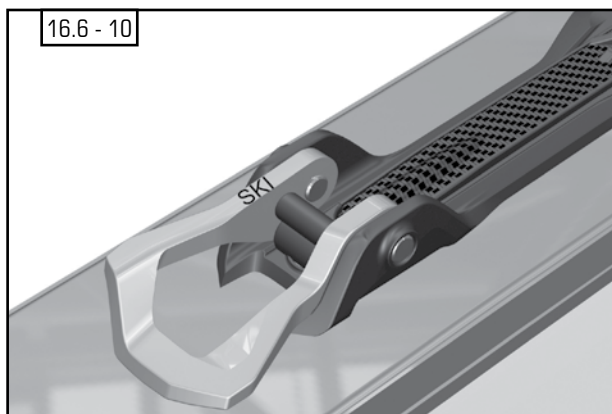


CHANGING FROM WALKING - MODE TO SKIING - MODE:

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

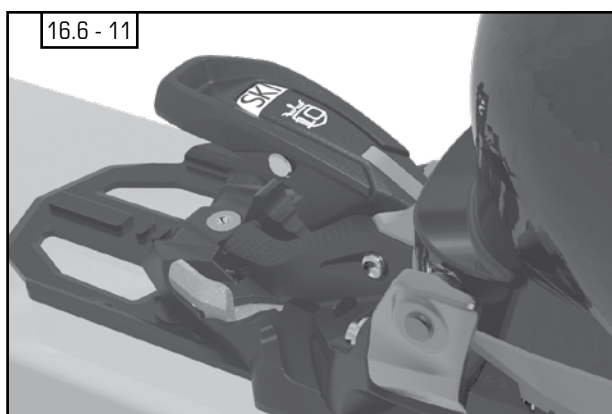


- In order to change from the WALK mode to the SKI mode, open the heel piece and switch the WALK/SKI lever 180° Forward, located between the toe and heel, From WALK to SKI allowing the heel piece to move forward and unlock the brake. (16.6-8, 16.6-9 and 16.6-10)



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.

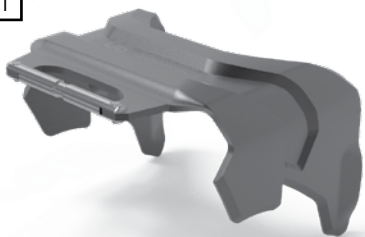


CAUTION !

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 ! (16.6 - 11)

16.7 MARKER KINGPIN & ALPINIST & CRUISE & DUKE PT - CRAMPONS

16.7 - 1



PIN & DUKE PT CRAMPONS:

MARKER offers special crampons for the MARKER PIN (Alpinist, Cruise & 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

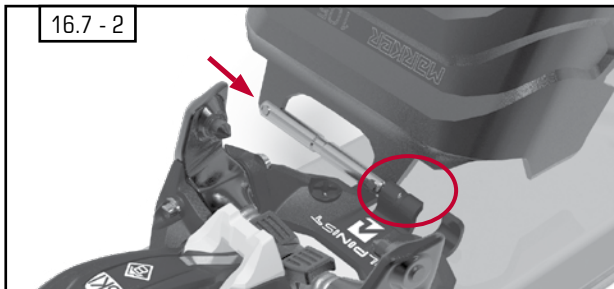
Crampons Alpinist & Kingpin 120 mm (ski width 105-120 mm)

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

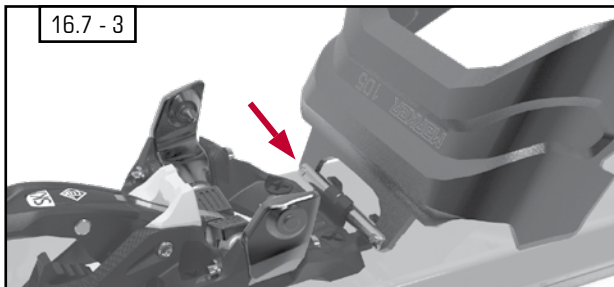
16.7 - 2



ATTACHING THE CRAMPONS:

- Insert the crampon with the axis into the recess provided at the toe. Tilt the crampon around 60° to insert. (16.7 - 2 and 16.7 - 3)
- The crampon must noticeably click in place when it is centered. (16.7 - 4)

16.7 - 3



CAUTION !

Using crampons that are too small can damage the ski !

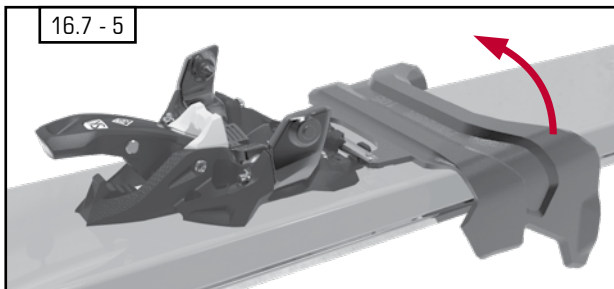
16.7 - 4



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.

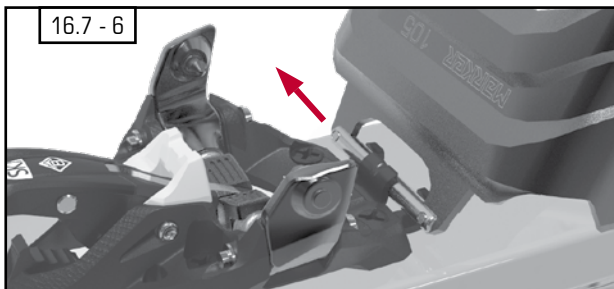
16.7 - 5



DETACHING THE CRAMPONS:

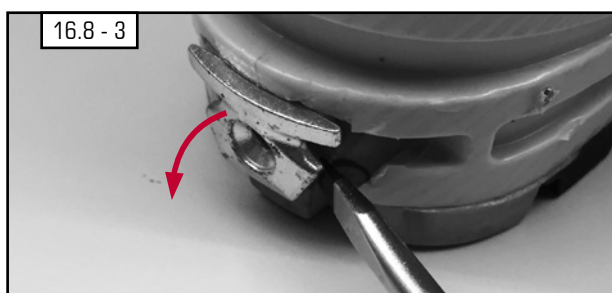
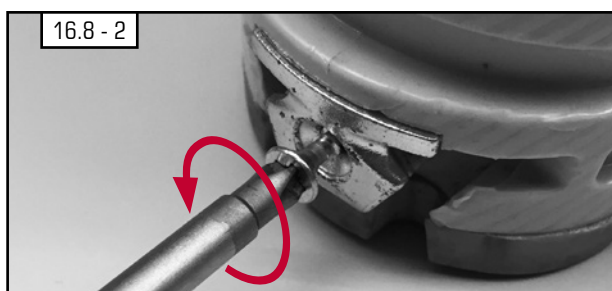
- Tilt the crampon around 60°. (16.7 - 5)

16.7 - 6



- Push against the crampon from the side and pull out. (16.7 - 6)

16.8 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 Bootssole (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
(16.8 - 1)

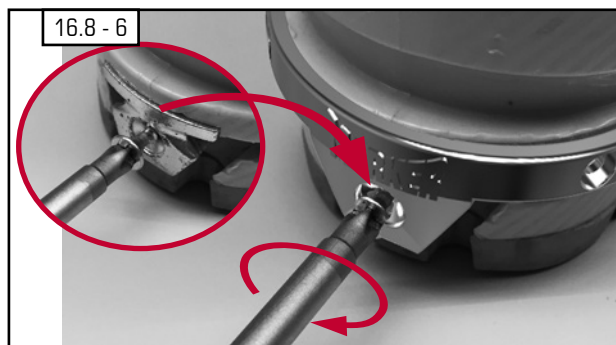
- Use the Phillips head screwdriver to unscrew the screw with which the heel insert is fixed in place. (16.8 - 2)

- Then remove the heel insert. This can be gently levered out using a small slotted screwdriver. (16.8 - 3 and 16.8 - 4)

16.8 DIN ADAPTER AT BOOT

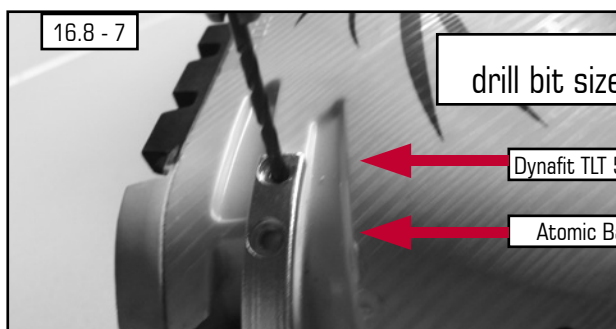


- Mount the Marker DIN Adapter on the heel. While doing so, check that there is no gap between the edge of the boot heel and the DIN adapter (16.8 - 5 and 16.8 - 6). If applicable, hit the center of the DIN Adapter with a rubber mallet.



- Use the original screw from your boot to fix the DIN Adapter to the boot. (16.8 - 6)

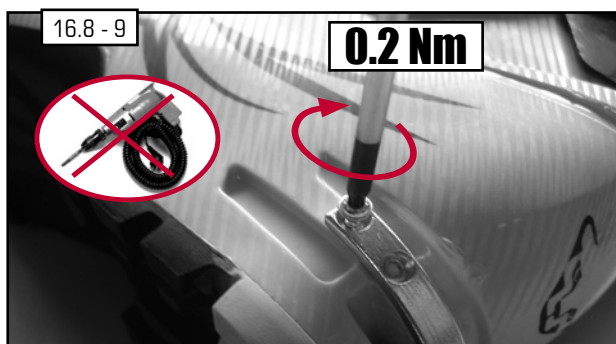
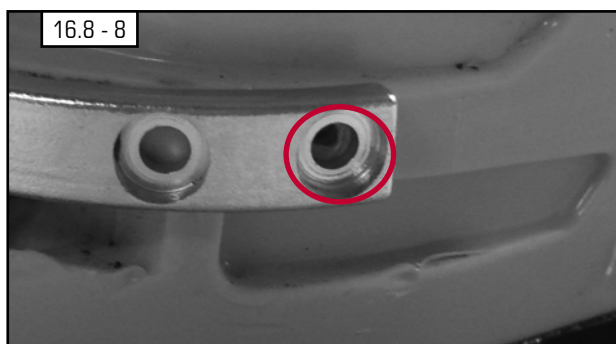
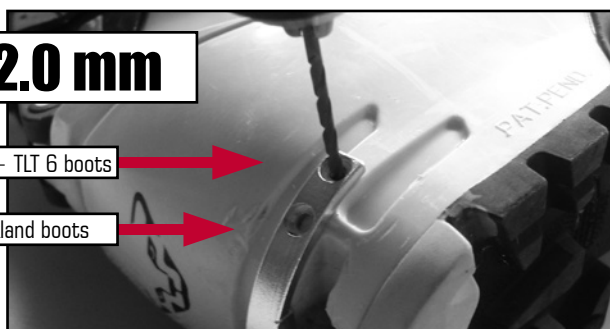
- Drill the appropriate holes at both ends of the DIN Adapter depending on boot model. Drill into these holes that are around 5 mm deep with a 2.0 mm drill bit. (16.8 - 7 and 16.8 - 8)



drill bit size **2.0 mm**

Dynafit TLT 5 + TLT 6 boots

Atomic Backland boots



0.2 Nm

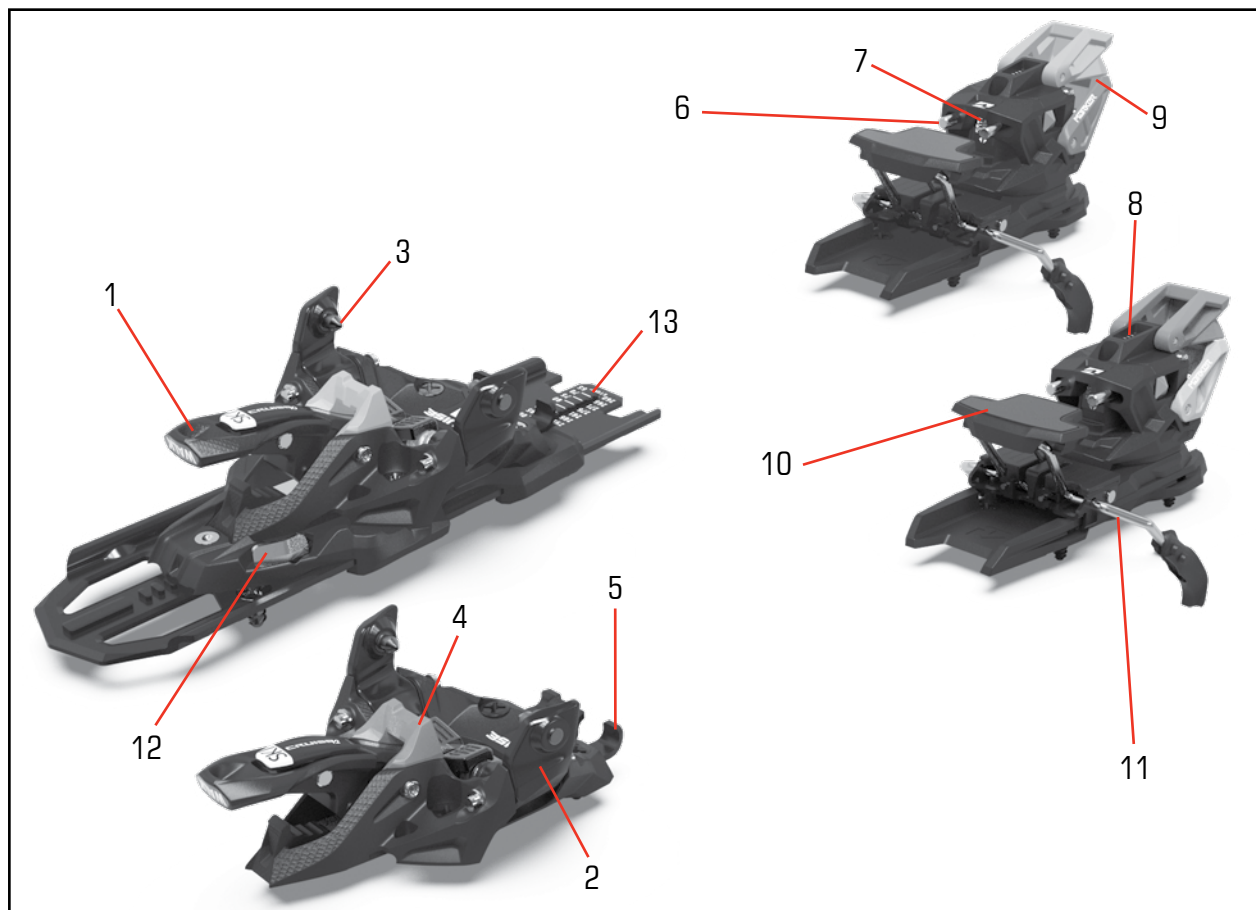
- Then tighten the Torx screws supplied using the manual screwdriver with 0.2 Nm. (16.8 - 9 and 16.8 - 10)

16.8 DIN ADAPTER AT BOOT



- The Marker DIN Adapter complete installation.(16.8-11)

17.1 MARKER CRUISE & CRUISE DEMO BINDING COMPONENTS



MARKER CRUISE & CRUISE DEMO BINDING COMPONENTS:

- 1 - Opening lever toe
- 2 - Soleholder toe
- 3 - Toe retaining pins
- 4 - Step-in aids toe
- 5 - Crampon holder
- 6 - Locking bolt heel
- 7 - Indicator scale for vertical release force
- 8 - Indicator scale for lateral release force
- 9 - Hiking aid 1 + 2
- 10 - Brake pedal
- 11 - Brake arm
- 12 - Demo length adjustment lever
- 13 - Demo front plate with length scale



CAUTION !

MARKER CRUISE ski bindings are compatible with ski boots in accordance with ISO 9523 with tech inserts according to the Dynafit specification. 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 CRUISE bindings.

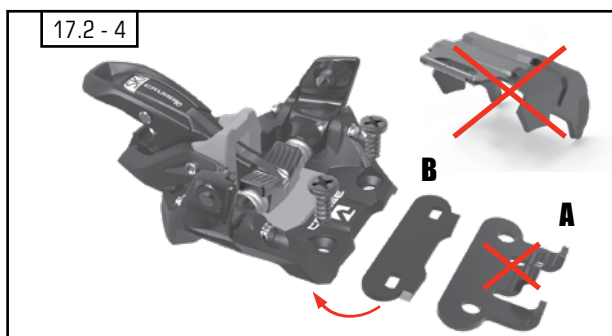
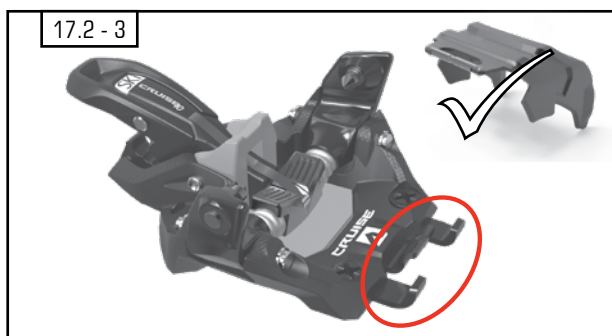
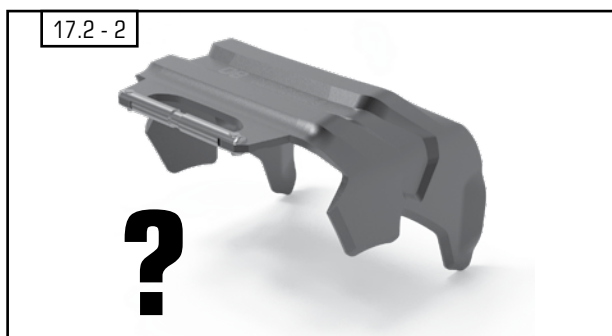
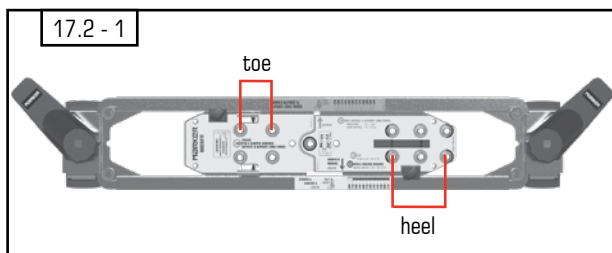
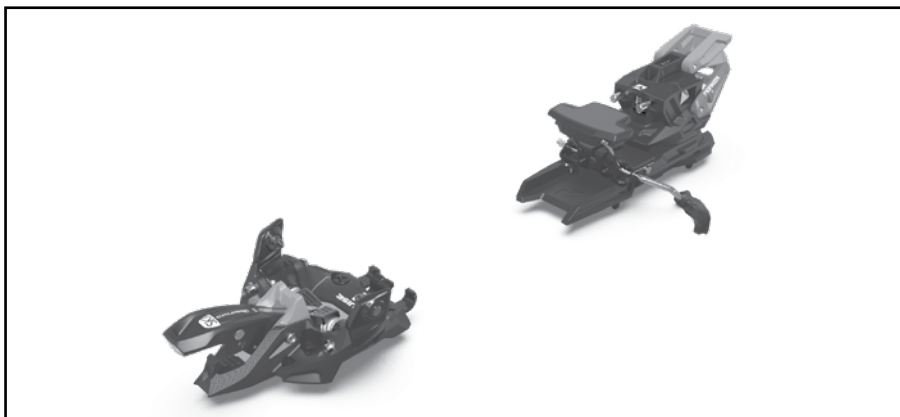


CAUTION !

MARKER CRUISE ski bindings are not TÜV-certified and therefore do not meet the relevant standards, in particular ISO 13992.

The product meets the current technical requirements using the latest technology.

17.2 INSTALLATION OF MARKER CRUISE BINDINGS



DRILLING THE ATTACHMENT HOLES:

IMPORTANT !



sole length	tool length settings
243 - 254 mm	255 mm
376 - 387 mm	375 mm

ADJUSTMENT OF THE INSTALLATION TOOL → 3.2

- Place the MARKER KINGPIN & ALPINIST & CRUISE installation tool W020X1T in the correct position on the ski. (17.2 - 1)
- Drill 4 holes for the toe through the front drill bushings.
- Drill 4 holes for the heel plate through the rear orange marked drill bushings.
- Remove the installation tool from the ski.

REMARK: See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE TOE:

- Determine the requested mounting option: (17.2 - 2)

MOUNTING OPTION A with crampon holder (17.2 - 3)

MOUNTING OPTION B without crampon holder (17.2 - 4)

- For mounting the toe without crampon holder remove the pre-mounted crampon holder **A** and replace it by the enclosed spacer **B**.

17.2 INSTALLATION OF MARKER CRUISE BINDINGS

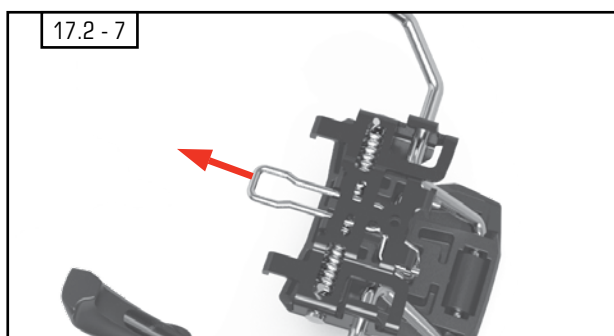


- Install the toe with the pre - installed screws in the holes.
- Tighten all screws lightly by hand, do not tighten them firmly. (17.2 - 5)



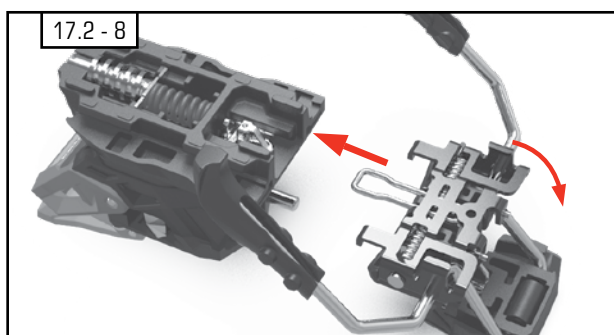
INSTALLING THE HEEL PLATE:

- Install the heel plate with the pre - installed screws in the rear holes.
- Tighten the screws lightly, then firmly. (17.2 - 6)

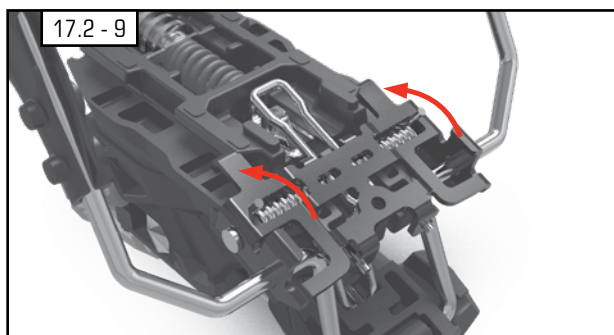


PREASSEMBLING THE HEEL WITH THE BRAKE:

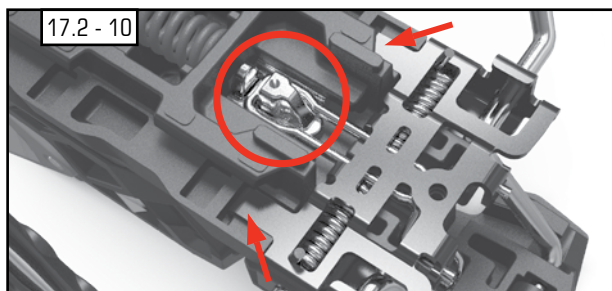
- The brake locking frame must be pulled backwards to the stop (17.2 - 7).



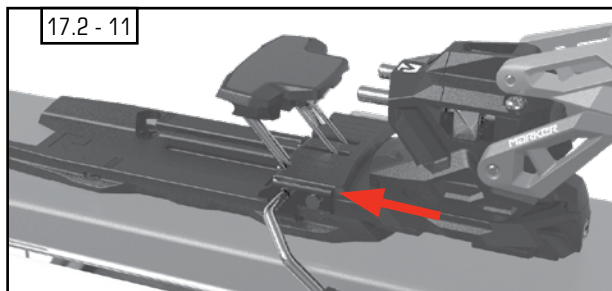
- Tilt the brake slightly, then apply it from the front to the bottom of the heel and hook it in. (17.2 - 8 and 17.2 - 9)



17.2 INSTALLATION OF MARKER CRUISE BINDINGS

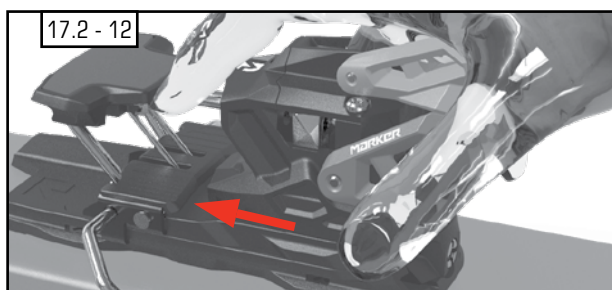


- Check correct installation of the brake: the two latching hooks of the brake must be locked into the recesses of the housing, the brake locking frame must be hooked over the brake slide. (17.2 - 10)

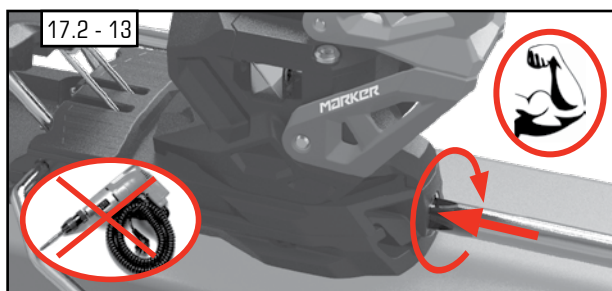


INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops. (17.2 - 11 and 17.2 - 12)

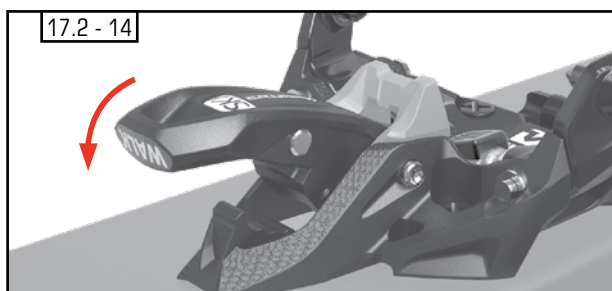


- With strong pressure, screw the heel forward onto the plate by turning the length adjustment screw. (17.2 - 13)

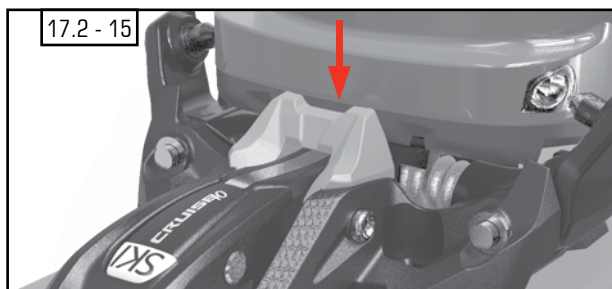


CAUTION !

Screw the heel onto the heel plate by hand ! (17.2 - 13)

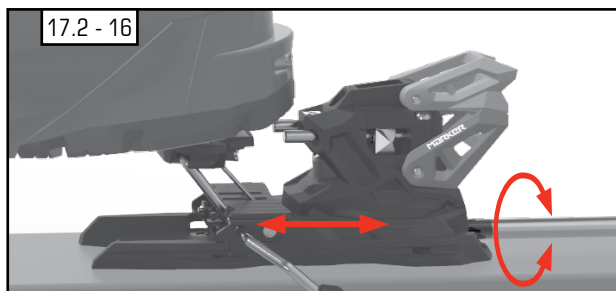


- Open the toe by pressing down the toe opening lever. (17.2 - 14)

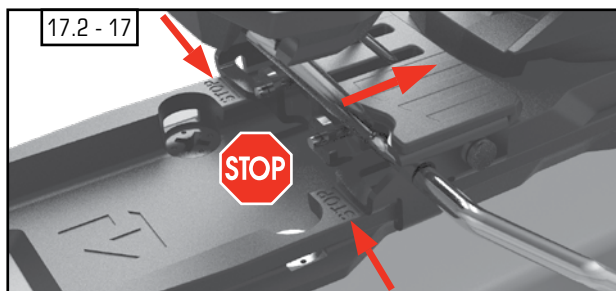


- Position the tip of the ski boot between the retaining pins on the toe. Then press the tip of the boot down and step into the toe. (17.2 - 15)
- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position.

17.2 INSTALLATION OF MARKER CRUISE BINDINGS

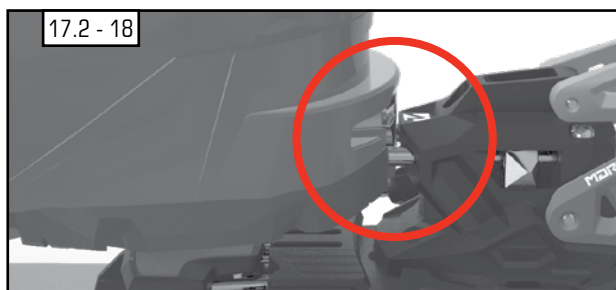


- Attach the heel of the boot to the heel binding.
- Position the heel by turning the length adjustment screw. (17.2 - 16)

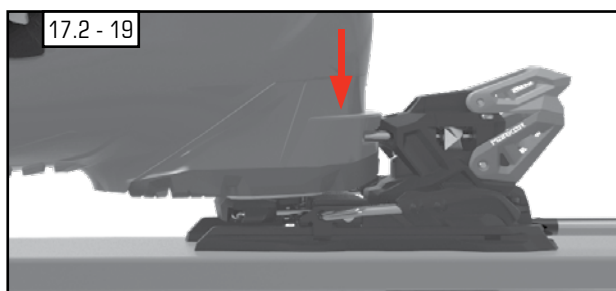


IMPORTANT SAFETY ADVICE !

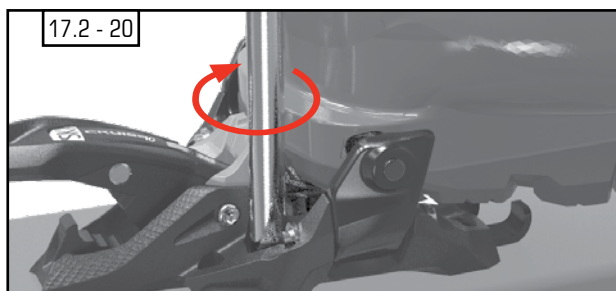
Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (17.2 - 17)



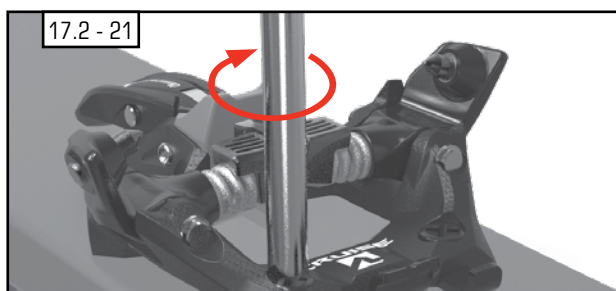
- Check the correct heel position: the boot has to be flush with the heel housing. (17.2 - 18)



- Push the heel of the boot straight down and enter the heel part. (17.2 - 19)

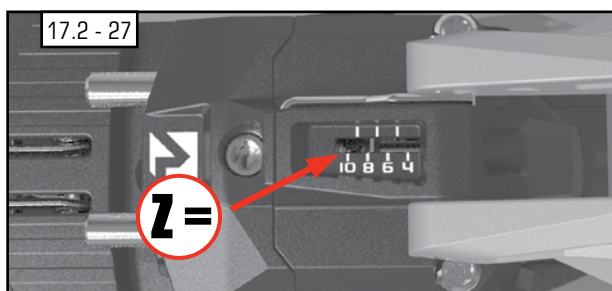
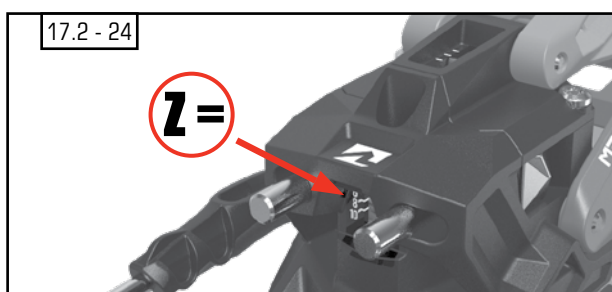
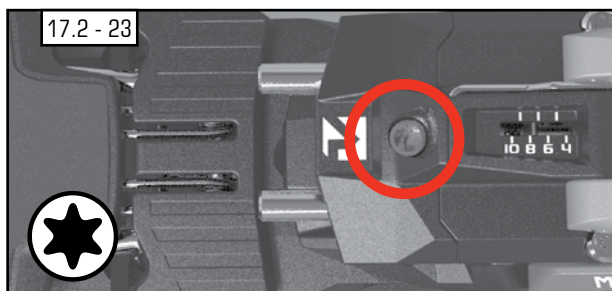
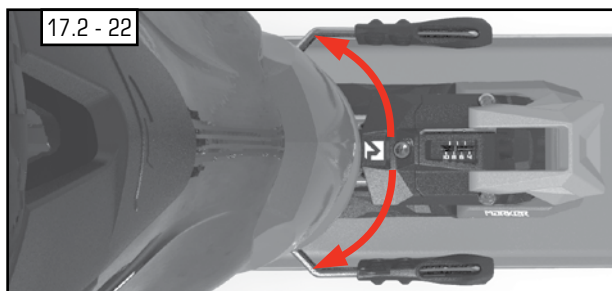


- With the boot in the closed binding tighten the two front toe screws firmly. (17.2 - 20)



- Remove the ski boot and tighten the two rear toe screws firmly. (17.2 - 21)

17.2 INSTALLATION OF MARKER CRUISE BINDINGS



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct boot-to-binding adjustment, 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



INFORMATION FOR THE SKIER!

Explain that **MARKER CRUISE** ski bindings do not meet any ISO Certification and therefore the release function does not need to be tested to verify release.

INFORMATION FOR BINDING ADJUSTMENT MARKER CRUISE:

MARKER CRUISE ski bindings enable side and vertical release via the heel section.



IMPORTANT !

For the adjustment of the heel release forces a Torx wrench TX 20 is needed !

Adjust the release values solely by hand, do not use an electric screwdriver !



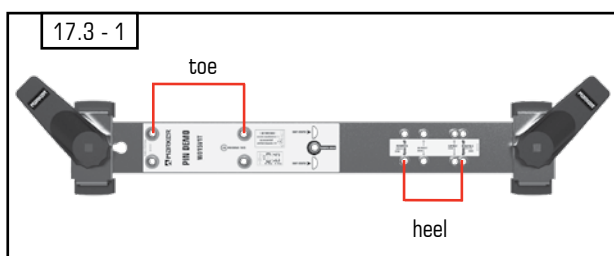
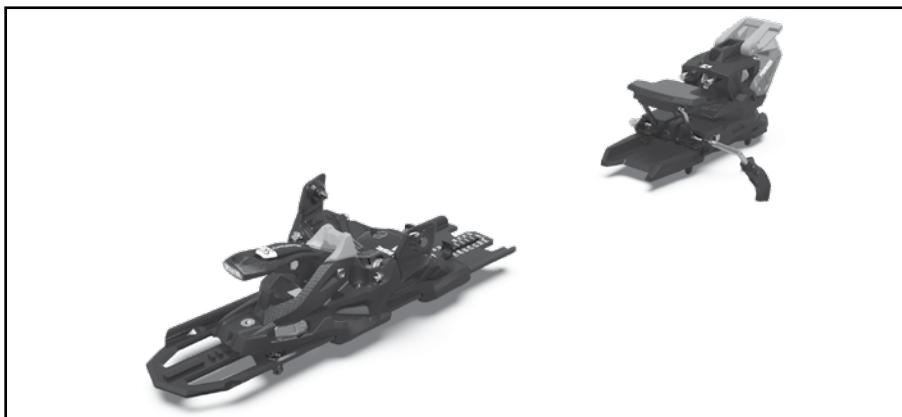
ADJUSTMENT LATERAL RELEASE FORCE: (17.2 - 22)

- The lateral release adjustment screw is located on the top of the heel housing, the climbing aids must be folded back for adjustment (17.2 - 23).
- The lateral release scale is located on the front of the heel housing (17.2 - 24).

ADJUSTMENT VERTICAL RELEASE FORCE: (17.2 - 25)

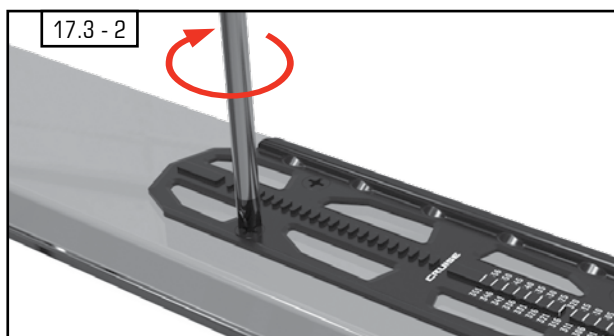
- The vertical release adjustment screw is located on the back of the heel housing; to adjust it, the climbing aids must be folded upwards. (5.2 - 26)
- The vertical release scale is located on the top of the heel housing (17.2 - 27).

17.3 INSTALLATION OF MARKER CRUISE DEMO BINDINGS



DRILLING THE ATTACHMENT HOLES:

- Place the MARKER PIN DEMO installation tool W015V1T in the correct position on the ski. (17.3 - 1)
- Drill 4 holes for the toe through the front orange marked drill bushings.
- Drill 4 holes for the heel plate through the rear red marked drill bushings.
- Remove the installation tool from the ski.

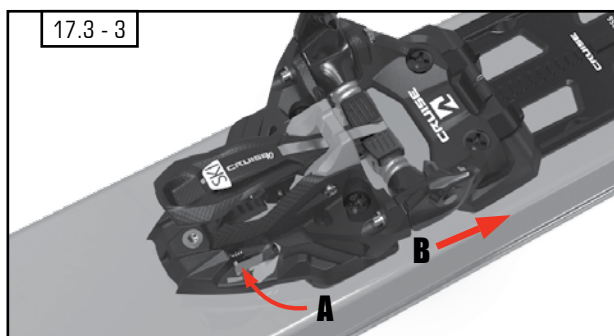


REMARK:

See DRILLING INSTRUCTIONS → 3.2

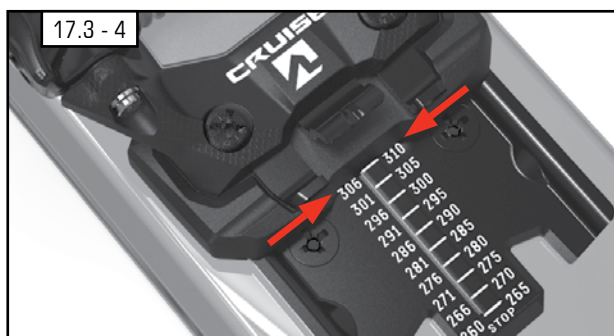
INSTALLING THE TOE PLATE:

- Place the toe plate onto the ski.
- Insert the enclosed screws. Tighten the screws lightly, then firmly. (17.3 - 2)



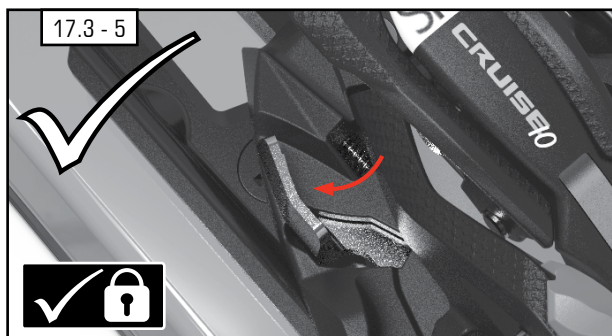
INSTALLING THE TOE:

- Open the locking lever (A) and slide the toe with lever open from the front of the plate backward (B). (17.3 - 3)

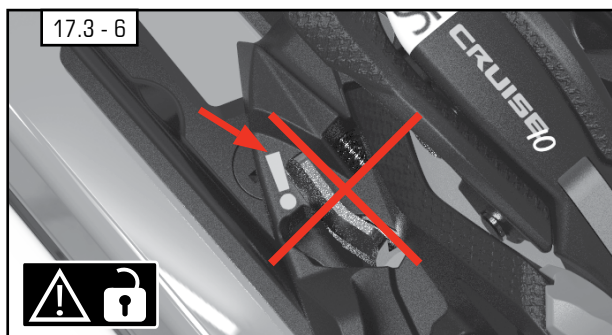


- Slide the toe backward to the correct sole length in accordance with the sole length scale. (17.3 - 4)

17.3 INSTALLATION OF MARKER CRUISE DEMO BINDINGS

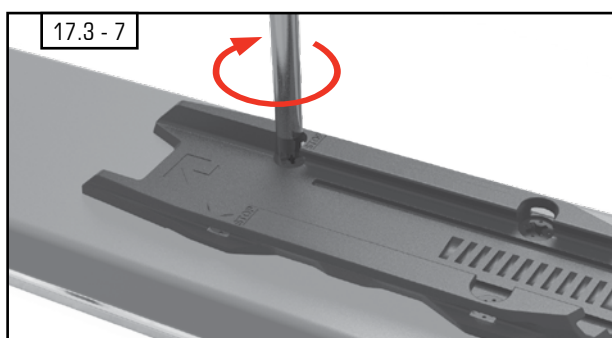


- Close the locking lever. (17.3 - 5)



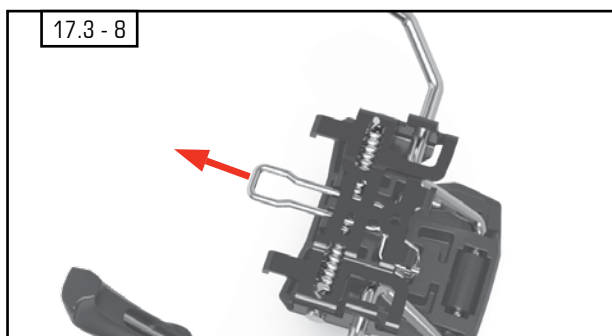
CAUTION !

Ensure that the lever is engaged properly !
Visually check locking mechanism: when locking the system the opening lever has to snap into the basic position. The warning symbol must not be visible ! (17.3 - 6)



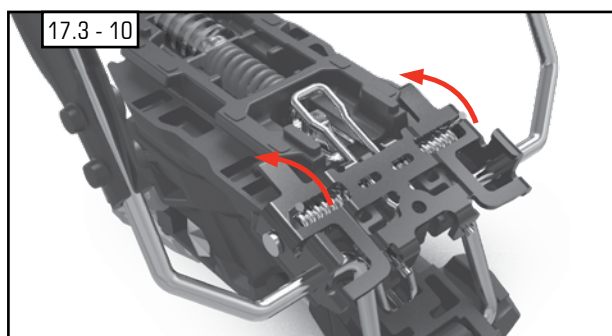
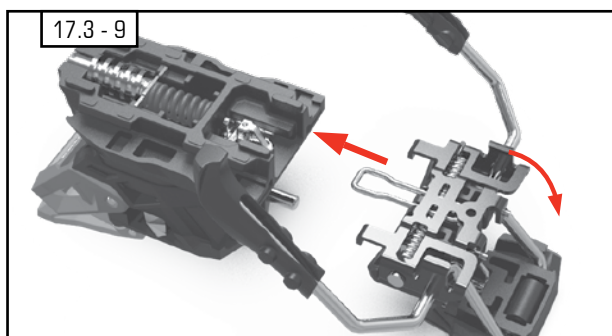
INSTALLING THE HEEL PLATE:

- Install the heel plate with the pre - installed screws in the rear holes.
- Tighten the screws lightly, then firmly. (17.3 - 7)

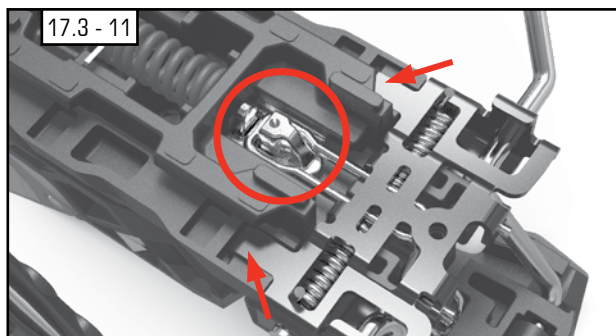


PREASSEMBLING THE HEEL WITH THE BRAKE:

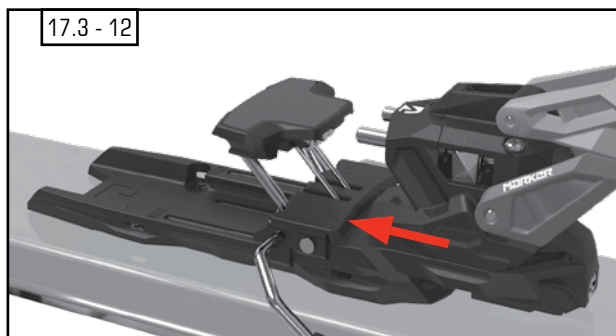
- The brake locking frame must be pulled backwards to the stop (17.3 - 8).
- Tilt the brake slightly, then apply it from the front to the bottom of the heel and hook it in. (17.3 - 9 and 17.3 - 10)



17.3 INSTALLATION OF MARKER CRUISE DEMO BINDINGS

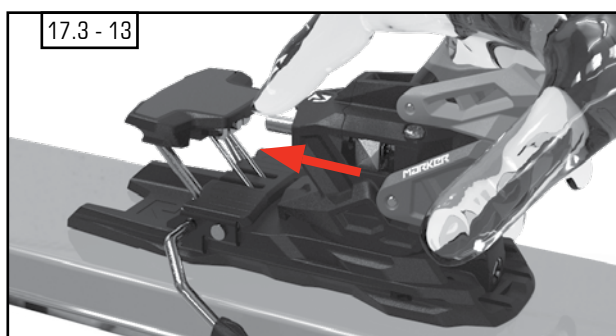


- Check correct installation of the brake: the two latching hooks of the brake must be locked into the recesses of the housing, the brake locking frame must be hooked over the brake slide. (17.3 - 11)

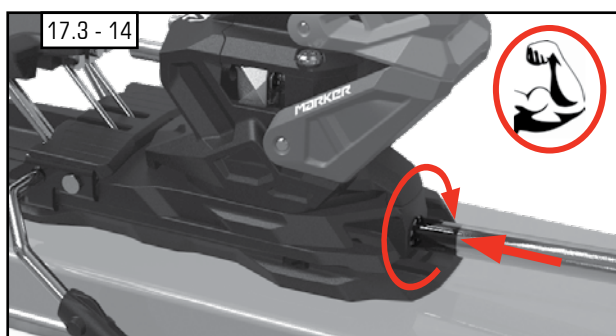


INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops. (17.3 - 12 and 17.3 - 13)



- With strong pressure, screw the heel forward onto the plate by turning the length adjustment screw. (17.3 - 14)



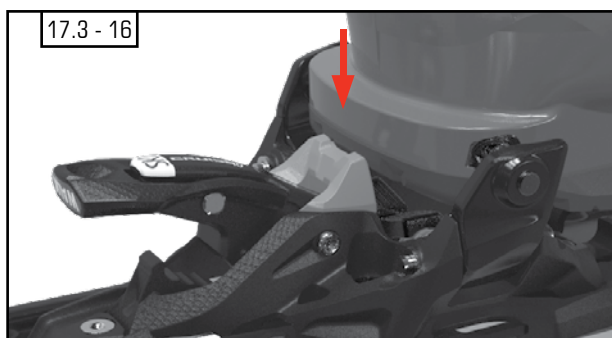
CAUTION !

Screw the heel onto the heel plate by hand ! (17.3 - 14)



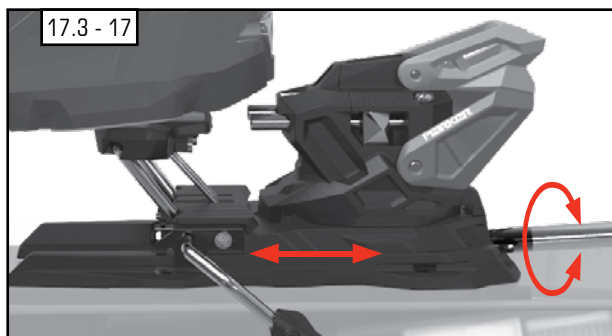
- Open the toe by pressing down the toe opening lever. (17.3 - 15)

17.3 INSTALLATION OF MARKER CRUISE DEMO BINDINGS



- 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. (17.3 - 16)

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



- Attach the heel of the boot to the heel binding.
- Position the heel by turning the length adjustment screw. (17.3 - 17)

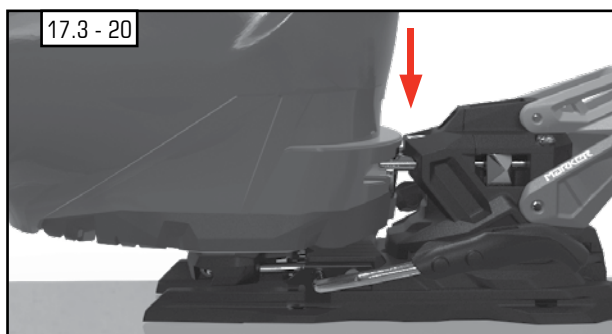


IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (17.3 - 18)



- Check the correct heel position: the boot has to be flush with the heel housing. (17.3 - 19)

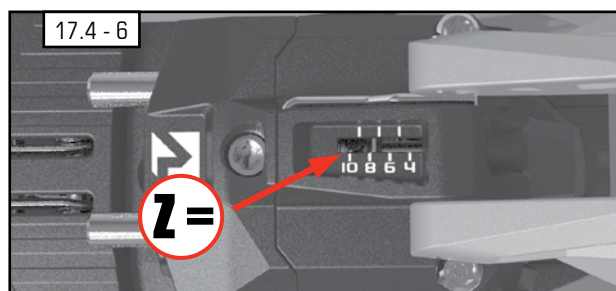
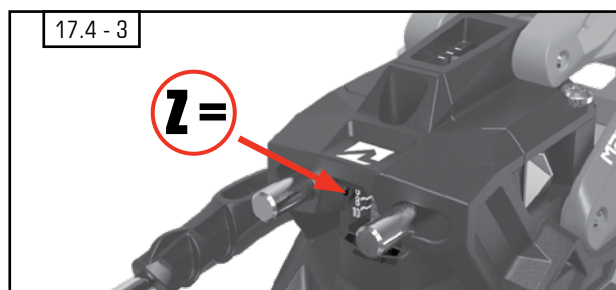
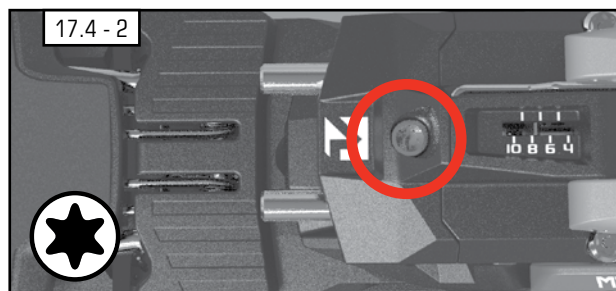
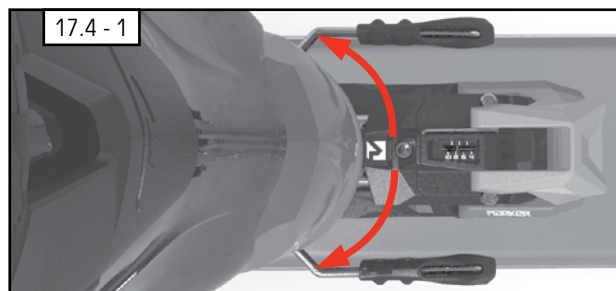


- Push the heel of the boot straight down and enter the heel part. (17.3 - 20)

REMARK:

When mounting the binding make sure that you fit the enclosed stickers to the ski.

17.4 MARKER CRUISE BINDINGS - INFORMATION FOR BINDING ADJUSTMENT



CAUTION !

MARKER CRUISE ski bindings are not TÜV-certified and therefore do not meet the relevant standards, in particular ISO 13992.

The product meets the current technical requirements using the latest technology.

RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct boot-to-binding adjustment, 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

INFORMATION FOR BINDING ADJUSTMENT MARKER CRUISE:

MARKER CRUISE ski bindings enable side and vertical release via the heel section.



IMPORTANT !

For the adjustment of the heel release forces a Torx wrench TX 20 is needed !

Adjust the release values solely by hand, do not use an electric screwdriver !



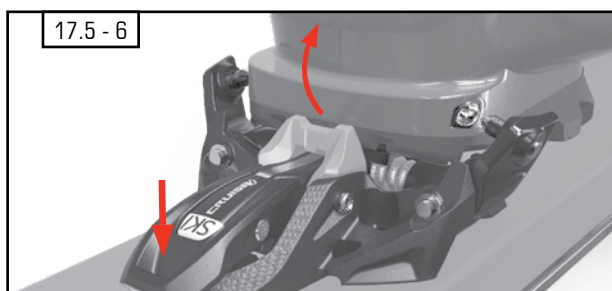
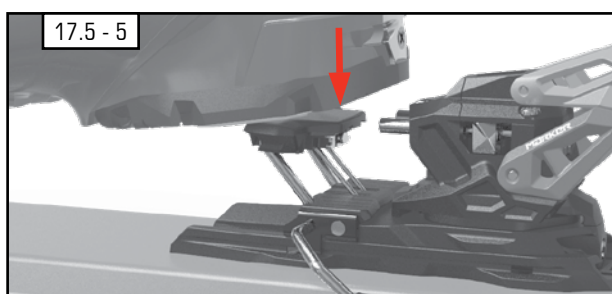
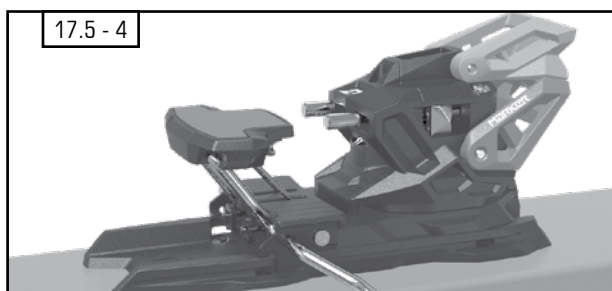
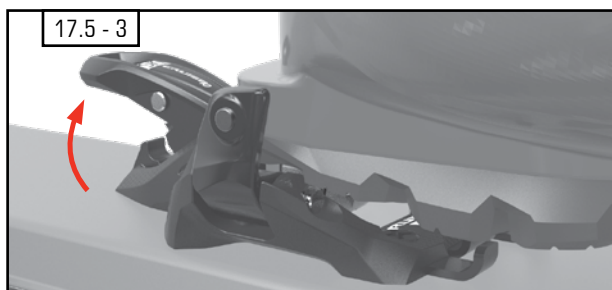
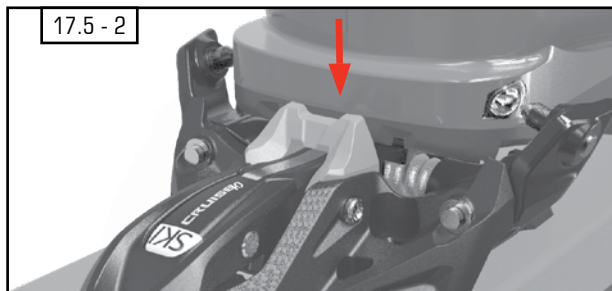
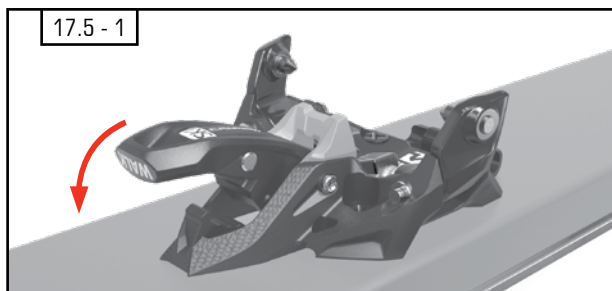
ADJUSTMENT LATERAL RELEASE FORCE: (17.4 - 1)

- The lateral release adjustment screw is located on the top of the heel housing, the climbing aids must be folded back for adjustment (17.4 - 2).
- The lateral release scale is located on the front of the heel housing (17.4 - 3).

ADJUSTMENT VERTICAL RELEASE FORCE: (17.4 - 4)

- The vertical release adjustment screw is located on the back of the heel housing; to adjust it, the climbing aids must be folded upwards. (17.4 - 5)
- The vertical release scale is located on the top of the heel housing (17.4 - 6).

17.5 MARKER CRUISE - INFORMATION FOR THE SKIER



In addition to the system explanations → **15.1 - 15.3** the following instructions must be given to the intended user of a MARKER CRUISE binding:



CAUTION !

MARKER CRUISE ski bindings are not TÜV-certified and therefore do not meet the relevant standards, in particular ISO 13992.

The product meets the current technical requirements using the latest technology.

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 toe is closed, open it by pressing down the toe opening lever. (17.5 - 1)
- Position the tip of the ski boot on the toe's step-in aids and between the retaining pins on the toe. (17.5 - 2)
- 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. (17.5 - 3)
- Move the locked boot back and forth several times to ensure that boot and binding are securely connected.

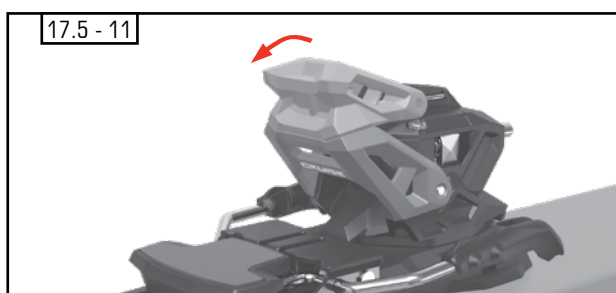
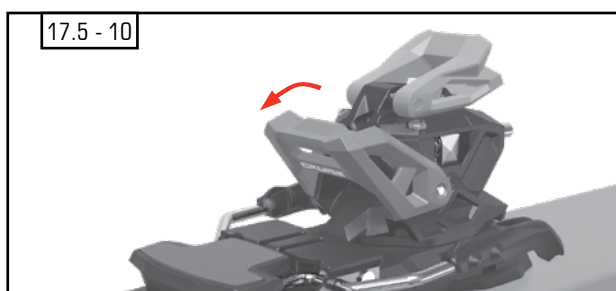
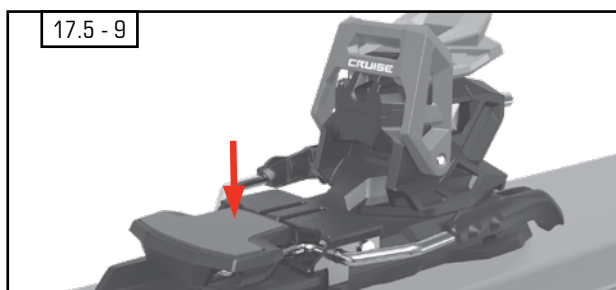
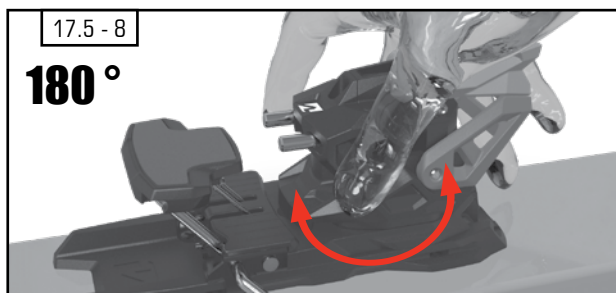
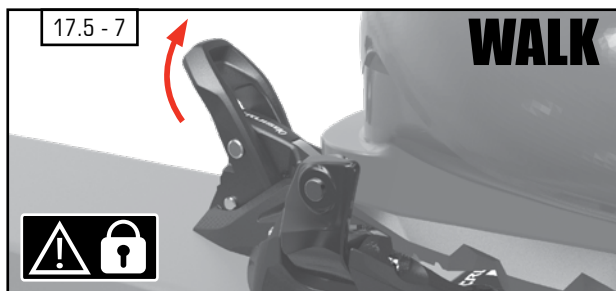
- Ensure that the heel holder is turned to the travel position and the locking bolts in the heel holder face forward. (17.5 - 4)

- Push the heel of the boot straight down and enter the heel part. (17.5 - 5)

STEP OUT (INCLUDING AFTER A FALL IN AN EMERGENCY)

- Press down adjusting lever on the toe with a ski pole, ski, ski boot or your hand. Lift the tip of the ski boot slightly. (17.5 - 6)

17.5 MARKER CRUISE - INFORMATION FOR THE SKIER



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. (17.5 - 7)



CAUTION !

In hiking mode (WALK) the release function is blocked !

- Turn the heel by 180° so that the locking bolts in the heel face towards the end of the ski. (17.5 - 8)
- The brake is engaged by hand by pushing the brake pedal down or by stepping down on the pedal when stepping in. (17.5 - 9)

USING THE HIKING AID

- In ascent mode, you can use two hiking aids with different angles. Lower hiking aid position: Fold the hiking aid 1 forward (17.5 - 10). Upper hiking aid position: Fold the hiking aid 2 forward (17.5 - 11).

NOTE: The brake is disengaged by turning the heel 180° in descent mode. It is recommended that you remove the skins from the ski only after disengaging the brake.

CHANGE OVER FROM HIKING TO SKIING POSITION

- For downhill skiing, always make sure that 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 (17.5 - 12) ! Ensure that the heel is turned to the travel position and the locking bolts in the heel face forward.

NOTE: Before switching from ascent to descent mode, the binding must be freed from snow, ice and dirt !

SYSTEM EXPLANATION FOR THE SKIER:

- Explain the boot - to - binding adjustment.
- Explain that **MARKER CRUISE** 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.

REMARK:

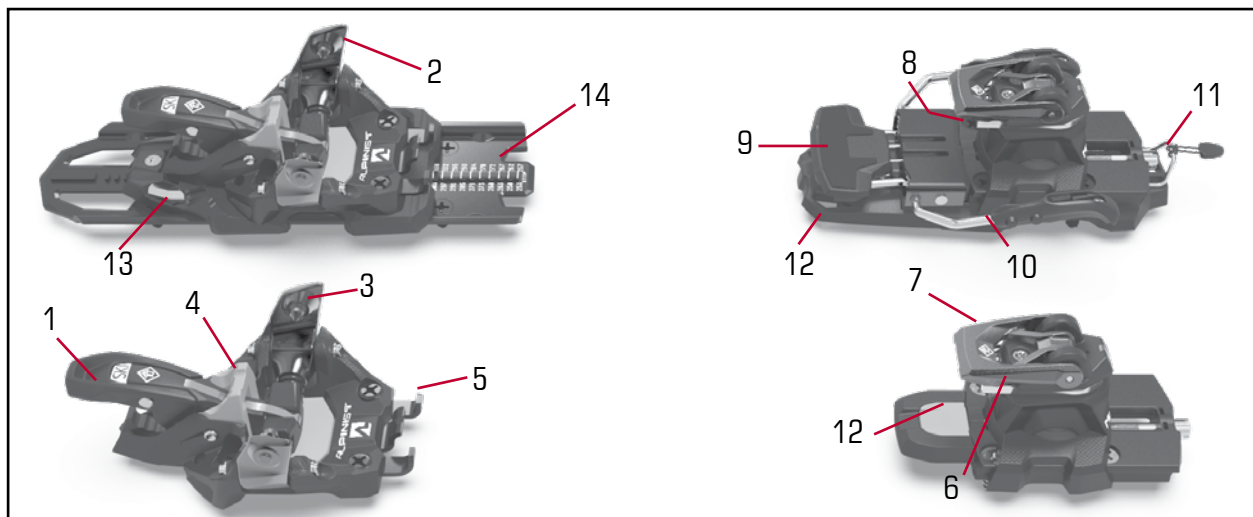
MARKER offers a special Kingpin & Alpinist & Cruise safety leash. Art. Nr: L002S1A

→ 16.4 - 5

NOTE:

Crampons Cruise: → 16.7

18.1 MARKER ALPINIST & ALPINIST DEMO COMPONENTS & INFORMATION



MARKER ALPINIST & ALPINIST DEMO BINDING COMPONENTS:

- 1 - Opening lever toe
- 2 - Soleholder toe
- 3 - Toe retaining pins
- 4 - Step-in aids toe
- 5 - Crampon holder
- 6 - Locking bolt heel (U-bow)
- 7 - Hiking aid
- 8 - Indicator scale for lateral release force
- 9 - Brake pedal
- 10 - Brake arm
- 11 - Brake lever
- 12 - Heel platform
- 13 - Demo length adjustment lever
- 14 - Demo front plate with length scale



CAUTION !

MARKER ALPINIST & ALPINIST JR LT & ALPINIST DEMO ski bindings are not ISO-certified and therefore do not meet the relevant standards, in particular ISO 13992. The product meets the current technical requirements using the latest technology.

MARKER ALPINIST ski bindings were designed and manufactured with a focus on low weight and are used for ski touring in extreme winter conditions.

MARKER ALPINIST 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 bindings. However, Marker cannot guarantee that these inserts will function correctly.

INFORMATION FOR BINDING ADJUSTMENT MARKER ALPINIST ALPINIST DEMO:

MARKER ALPINIST ski bindings enable side and vertical release via the heel section.

The release values provided by MARKER are only suggestions. The actual release values may vary slightly, especially over the life cycle of the product and/or when using the binding with unconventional ski boots, worn ski boot bottoms, and/or worn inserts. For this reason, we strongly recommend that you have the entire system consisting of the skis, ski boot, and ski binding checked and readjusted by an authorized MARKER retailer before every winter season.



CAUTION !

Fine-adjusting the release value for vertical release is not possible! The value can only be determined roughly by selecting the matching U-bow.

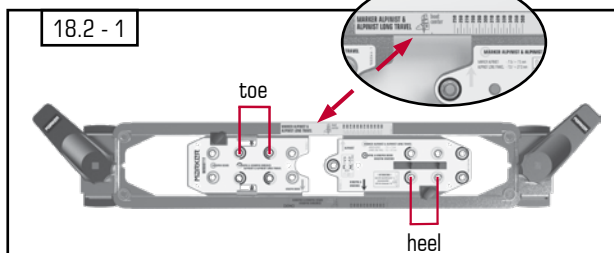
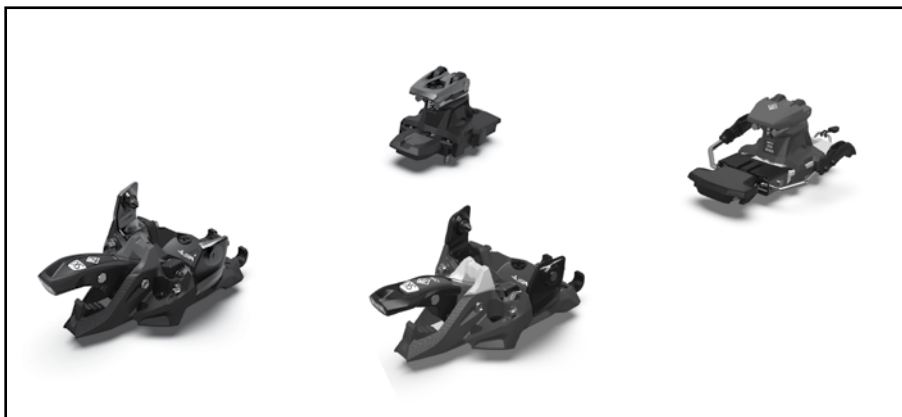
MARKER offers U-bows in three hardness levels (soft/medium/hard). Specific U-bows are installed depending on the binding model. → 18.5

If it becomes necessary to adjust the release value for vertical release and thus a replacement of the U-bow, extreme caution must be taken when selecting the U-bow in order to ensure the safety of the skier. The U-bow selection must be discussed between the specialized dealer authorised by MARKER and the skier, so that all factors that influence the selection of the U-bow and thus the trigger value can be taken into account.

All information provided by the skier as well as the degree of hardness (soft/medium/hard) of the replaced U-bow must be entered in a test certificate. → 15.3

Further information on the U-bows pre-installed on the respective Alpinist models as well as the instructions for replacing the U-bows is provided under section → 18.5

18.2 INSTALLATION OF MARKER ALPINIST & ALPINIST JR LT BINDINGS



DRILLING THE ATTACHMENT HOLES:

IMPORTANT !

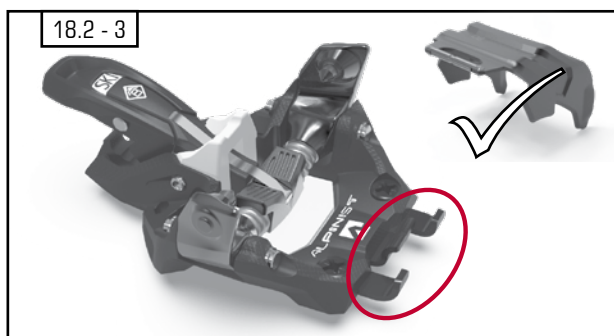
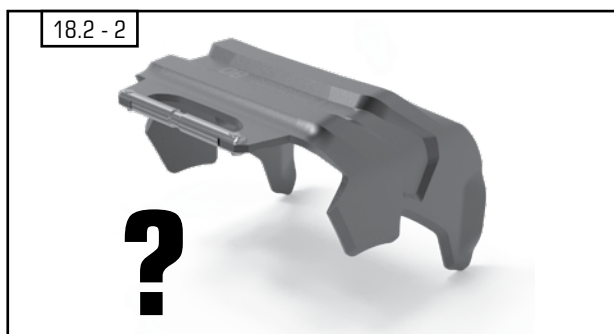


sole length	tool length settings
243 - 249 mm	250 mm
361 - 367 mm	360 mm

- Place the MARKER KINGPIN & ALPINIST installation tool W020X1T in the correct position on the ski. (18.2 - 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 !

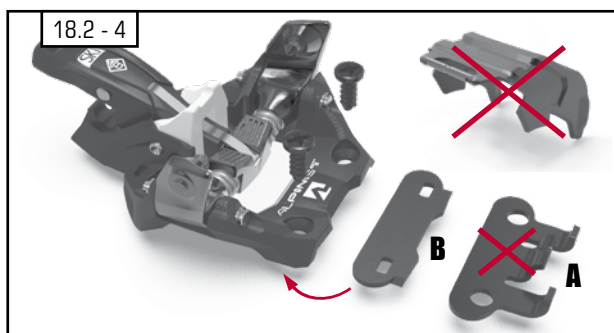
The total load of 110 kg / 242 lbs for the binding system must not be exceeded.

INSTALLING THE TOE:

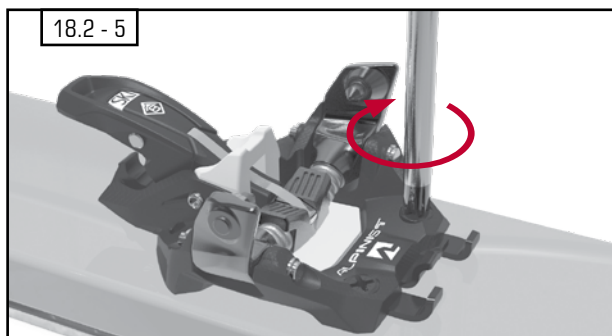
- Determine the requested mounting option: (18.2 - 2)

MOUNTING OPTION A with crampon holder (18.2 - 3)

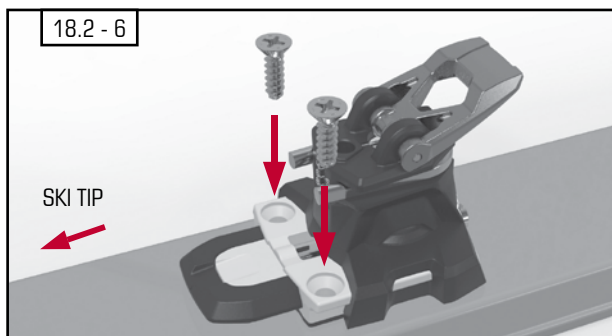
MOUNTING OPTION B without crampon holder (18.2 - 4)



18.2 INSTALLATION OF MARKER ALPINIST BINDINGS

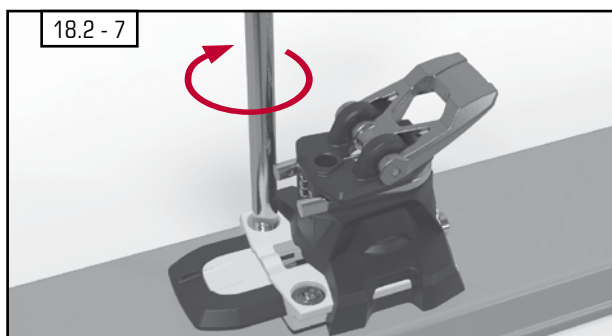


- Install the toe with the pre - installed screws in the front holes.
- Tighten the screws lightly, then firmly. (18.2 - 5)

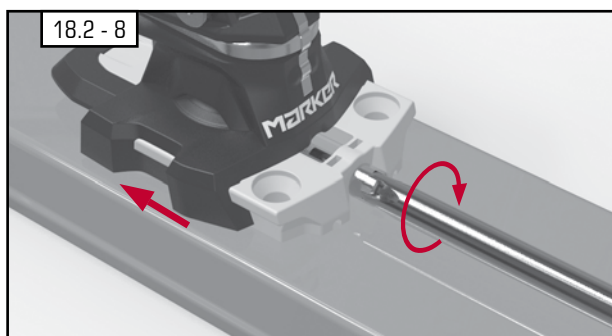


INSTALLING THE HEEL:

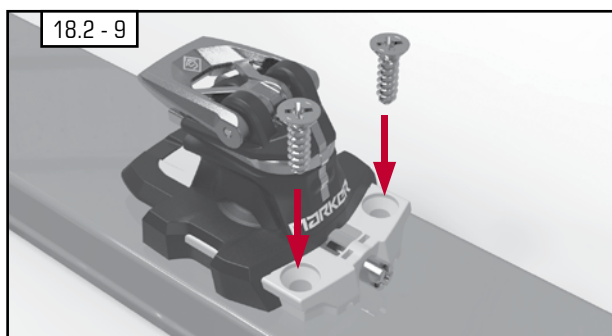
- Install the heel with the heel platform facing forward to the rear holes. Insert the two front screws. (18.2 - 6)



- Tighten the screws lightly, then firmly. (18.2 - 7)



- Screw the heel forward by turning the length adjustment screw until the rear screw holes are accessible. (18.2 - 8)



- Insert the two rear screws. (18.2 - 9)

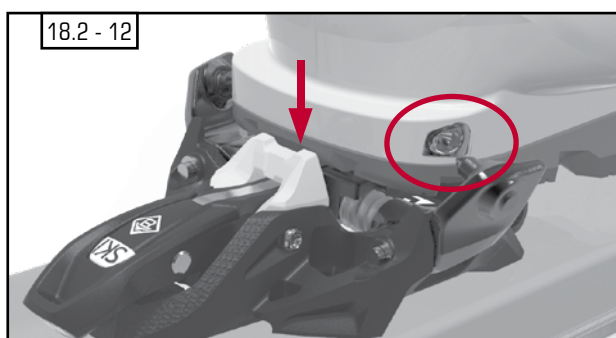
18.2 INSTALLATION OF MARKER ALPINIST BINDINGS



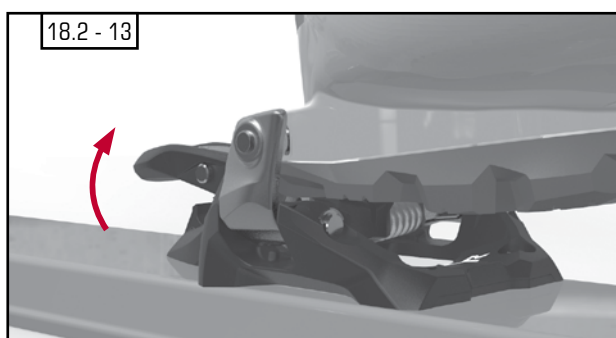
- Tighten the screws lightly, then firmly. (18.2 - 10)



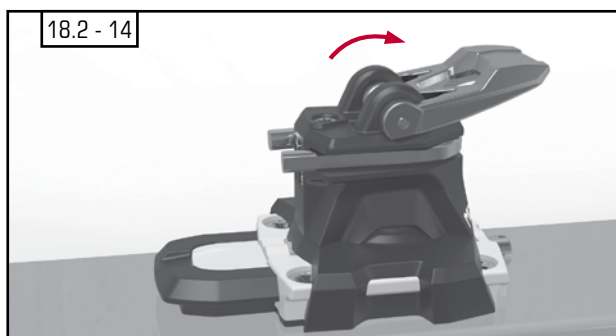
- Open the toe by pressing down the toe opening lever. (18.2 - 11)



- 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. (18.2 - 12)

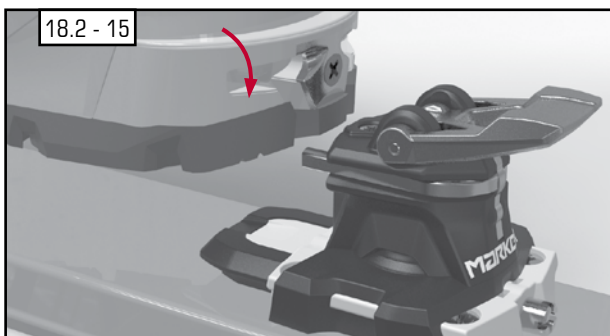


- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (18.2 - 13)



- Push the hiking aid backwards. (18.2 - 14)

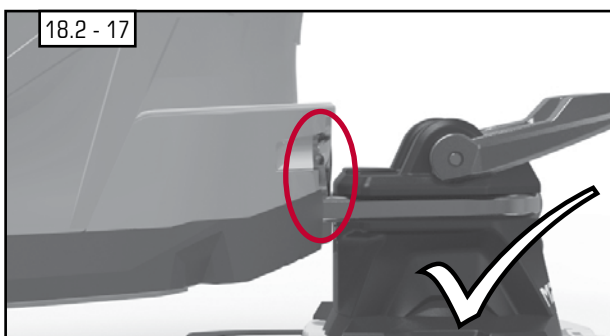
18.2 INSTALLATION OF MARKER ALPINIST BINDINGS



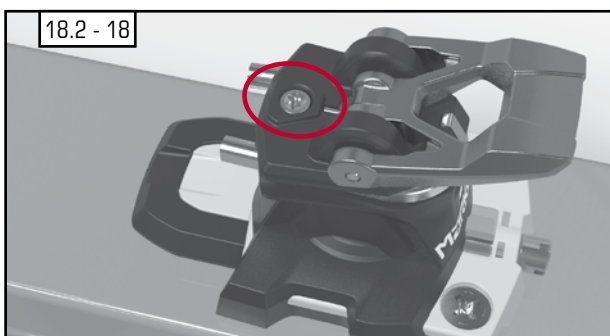
- Attach the heel of the boot to the heel binding. (18.2 - 15)



- Position the heel by turning the length adjustment screw. (18.2 - 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. (18.2 - 17)

**IMPORTANT!**

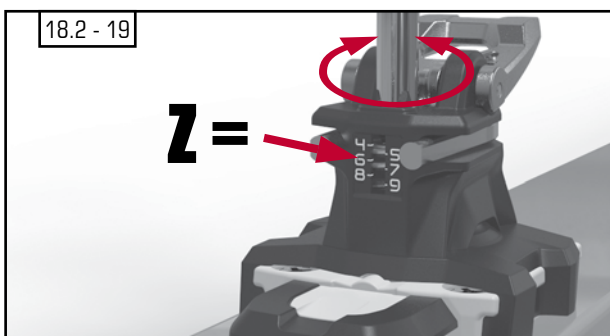
For the adjustment of the lateral heel release force, a Torx TX 20 is needed ! (18.2 - 18)



- Adjust the lateral release force. (18.2 - 19)

**IMPORTANT INFORMATION FOR THE SKIER!**

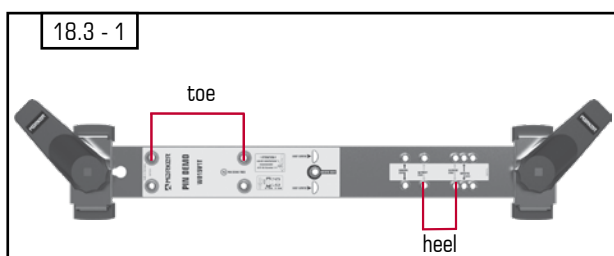
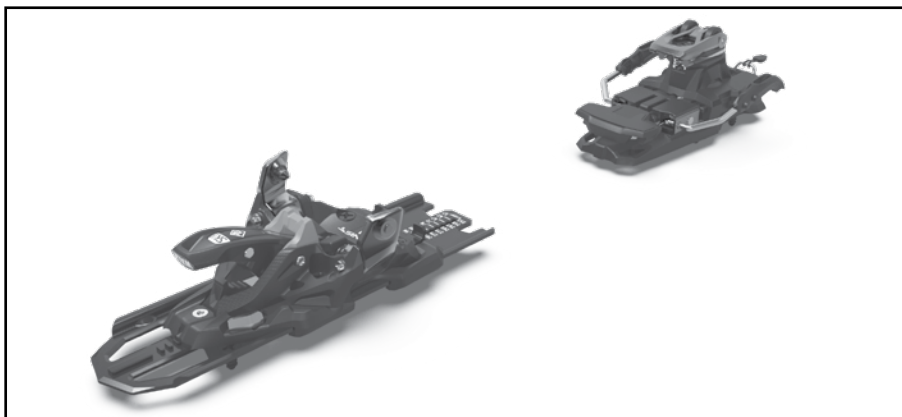
Explain that **MARKER ALPINIST** ski bindings do not meet any ISO Certification and therefore the release function does not need to be tested to verify function release.



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 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.

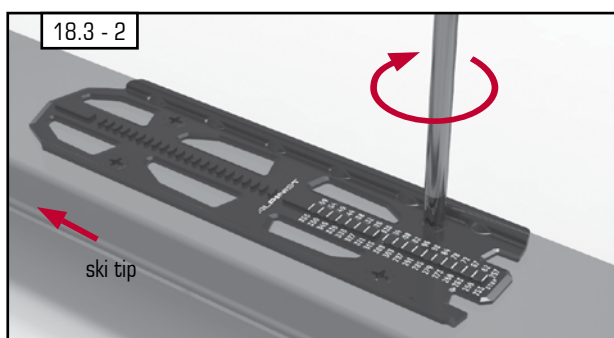
The initial indicator values should be used as a starting point for the binding setting process and may need to be modified in order for the skier to achieve correct retention preference.

18.3 INSTALLATION OF MARKER ALPINIST DEMO BINDINGS



DRILLING THE ATTACHMENT HOLES:

- Place the MARKER PIN DEMO installation tool W015V1T in the correct position on the ski. (18.3 - 1)
- Drill 4 holes for the toe through the front orange marked drill bushings.
- Drill 4 holes for the heel plate through the rear green marked drill bushings.
- Remove the installation tool from the ski.



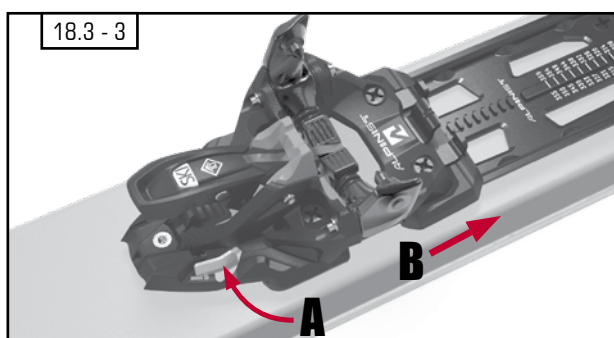
REMARK:

See DRILLING INSTRUCTIONS → 3.2



IMPORTANT !

The total load of 110 kg for the binding system must not be exceeded.

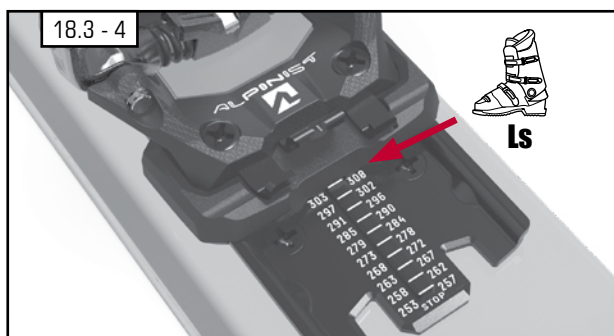


INSTALLING THE TOE PLATE:

- Place the toe plate onto the ski.
- Insert the enclosed screws. Tighten the screws lightly, then firmly. (18.3 - 2)

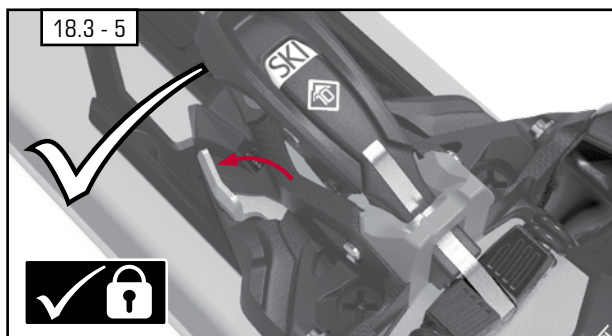
INSTALLING THE TOE:

- Open the locking lever (A) and slide the toe with lever open from the front of the plate backward (B). (18.3 - 3)



- Slide the toe backward to the correct sole length in accordance with the sole length scale. (18.3 - 4)

18.3 INSTALLATION OF MARKER ALPINIST DEMO BINDINGS

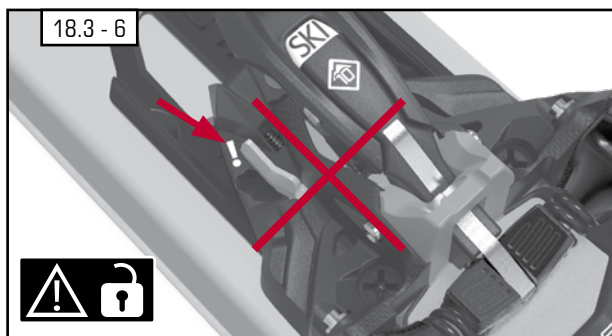


- Close the locking lever. (18.3 - 5)



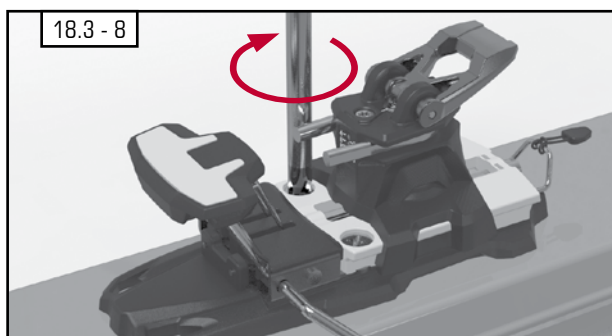
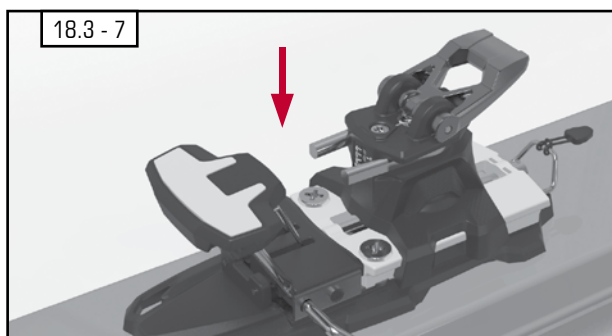
CAUTION !

Ensure that the lever is engaged properly !
Visually check locking mechanism: when locking the system the opening lever has to snap into the basic position. The warning symbol must not be visible ! (18.3 - 6)

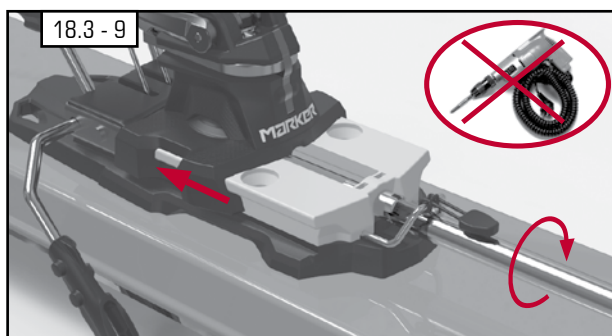


INSTALLING THE HEEL:

- Install the heel into the rear holes. (18.3 - 7)

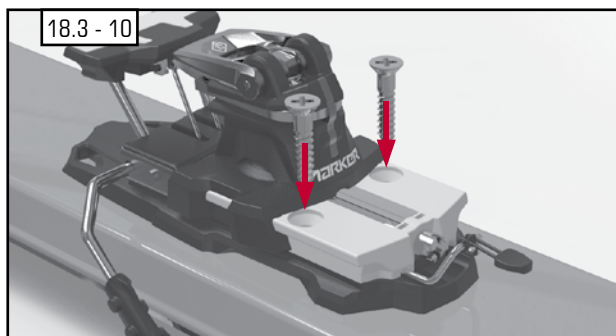


- Tighten the 2 front screws lightly, then firmly. (18.3 - 8)



- Screw the heel forward by turning the length adjustment screw until the rear screw holes are accessible. (18.3 - 9)

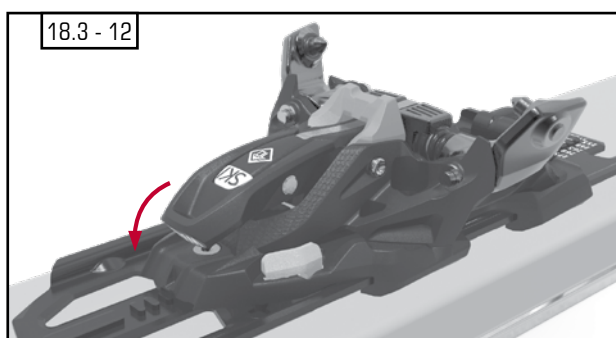
18.3 INSTALLATION OF MARKER ALPINIST DEMO BINDINGS



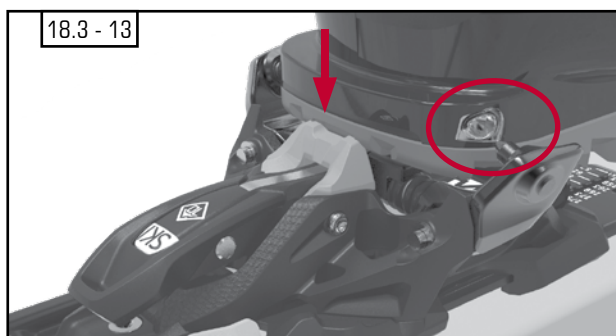
- Insert the two rear screws. (18.3 - 10)



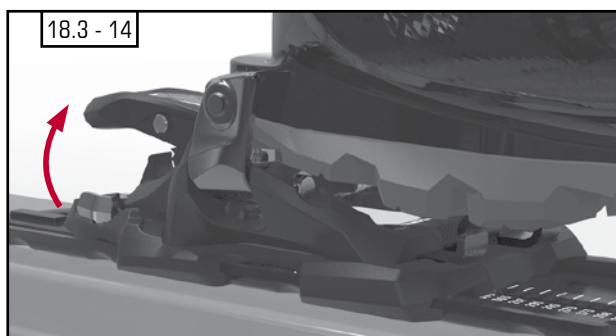
- Tighten the screws lightly, then firmly. (18.3 - 11)



- Open the toe by pressing down the toe opening lever. (18.3 - 12)

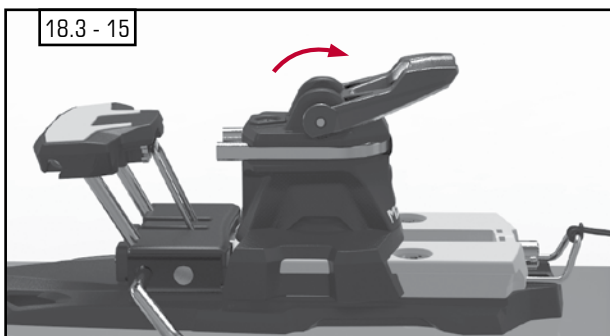


- Position the tip of the ski boot between the retaining pins on the toe. Then press the tip of the boot down and step into the toe. (18.3 - 13)

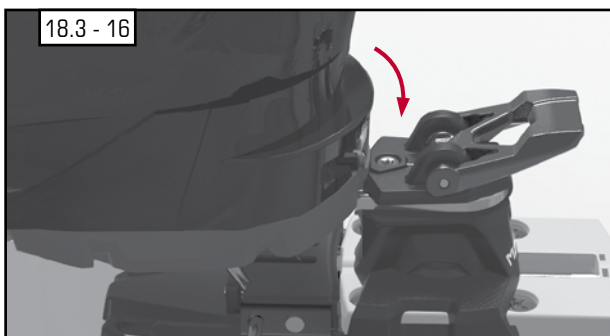


- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (18.3 - 14)

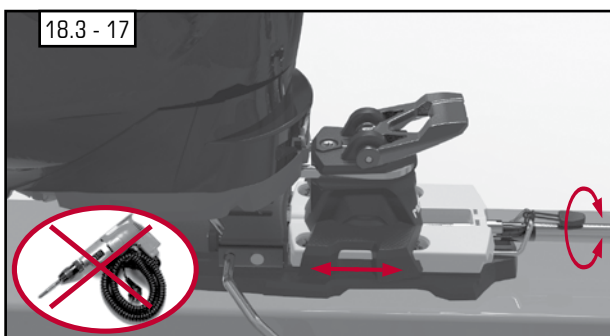
18.3 INSTALLATION OF MARKER ALPINIST DEMO BINDINGS



- Fold the hiking aid backwards. (18.3 - 15)



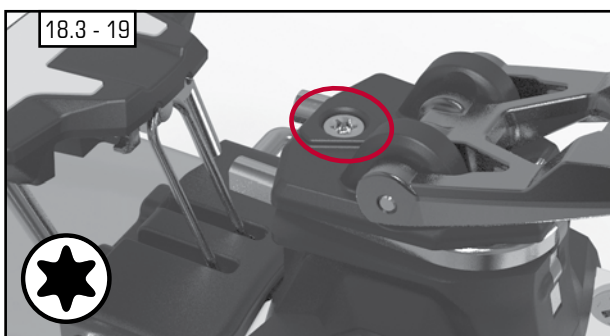
- Attach the heel of the boot to the heel binding. (18.3 - 16)



- Position the heel by turning the length adjustment screw. (18.3 - 17)



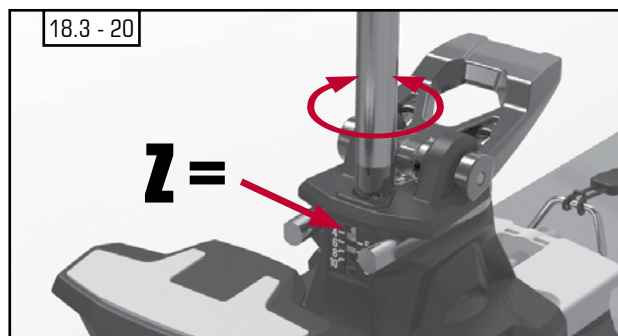
- Check the correct heel position: the boot has to be flush with the heel housing. (18.3 - 18)



IMPORTANT !

For the adjustment of the lateral heel release force a Torx wrench TX 20 is needed ! (18.3 - 19)

18.3 INSTALLATION OF MARKER ALPINIST DEMO BINDINGS



- Adjust the lateral release force. (18.3 - 20)

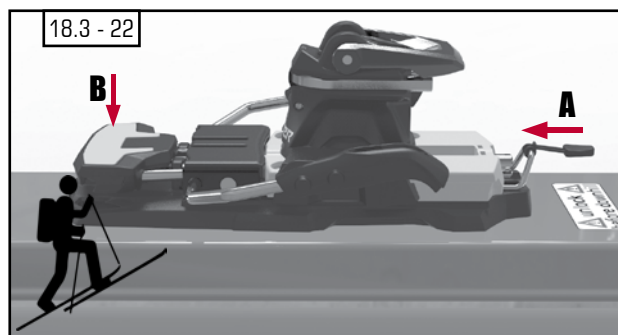
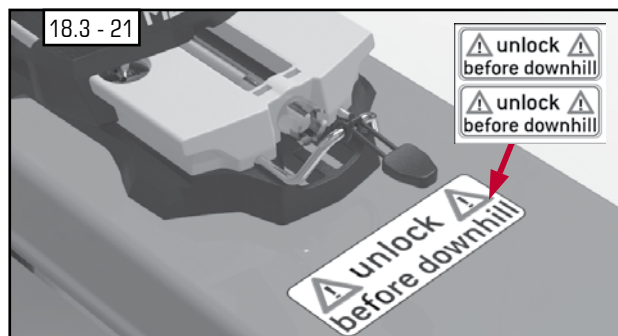


CAUTION: IMPORTANT INFORMATION FOR THE SKIER!

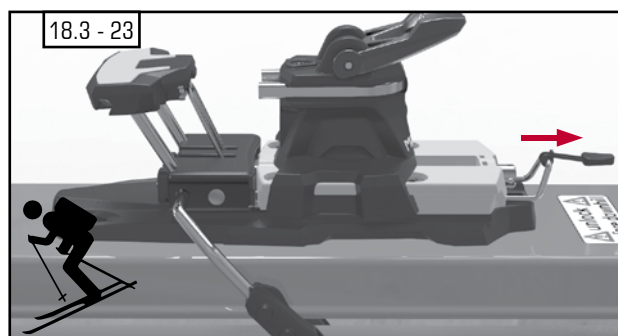
Explain that **MARKER ALPINIST DEMO** ski bindings do not meet any ISO Certification and therefore the release function does not need to be tested to verify function release.

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.



CAUTION ! The lateral 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



NOTE:

When mounting the binding make sure that you fit the enclosed stickers (brake) to the ski. (18.3 - 21)

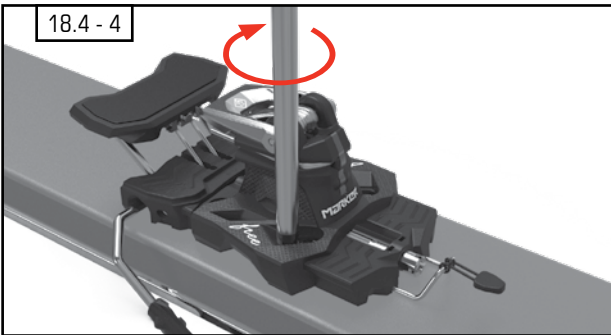
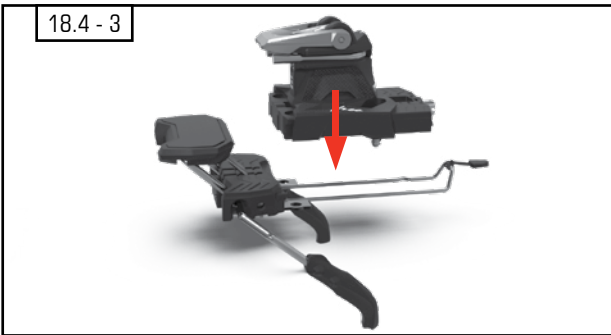
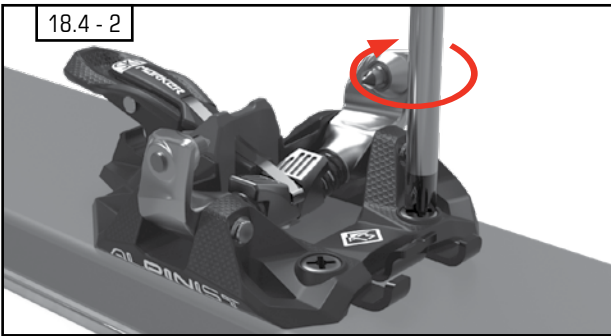
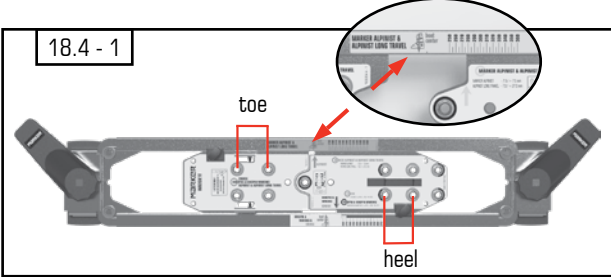
- Changing the brake over from descent to ascent position: Slide the brake lever forward until you feel it lock in place. The brake is engaged by hand by pushing the brake pedal down or by stepping down on the pedal when stepping in. (18.3 - 22)
- Changing the brake over from ascent to descent position: To disengage the brake, push the brake lever backward until you feel it lock in place. (18.3 - 23)

NOTE:

When mounting the binding make sure that you fit the enclosed stickers (toe) to the ski. (18.3 - 24)



18.4 INSTALLATION OF MARKER ALPINIST FREE BINDINGS



DRILLING THE ATTACHMENT HOLES:

IMPORTANT !



sole length	tool length settings ALPINIST FREE
243 - 249 mm	250 mm
361 - 387 mm	360 mm

ADJUSTMENT OF THE INSTALLATION TOOL → 3.2

- Place the MARKER KINGPIN & ALPINIST & CRUISE installation tool W020X1T in the correct position on the ski. (18.4 - 1)
- Drill 4 holes for the toe through the front drill bushings.
- Drill 4 holes for the heel plate through the rear green marked drill bushings.
- Remove the installation tool from the ski.

NOTE: See DRILLING INSTRUCTIONS → 3.2



IMPORTANT !

The total load of 110 kg for the binding system must not be exceeded.



- Install the toe with the pre - installed screws in the holes.
- Tighten all screws lightly, then firmly. (18.4 - 2)

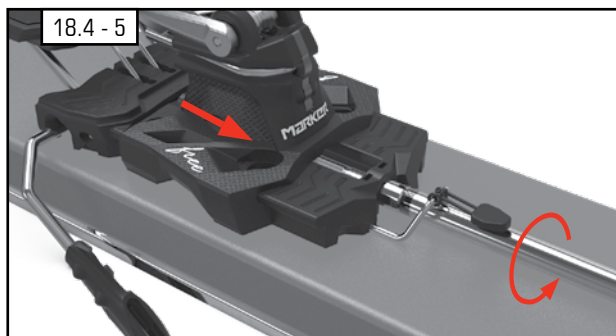
INSTALLING THE HEEL:

- Install the heel with the heel platform facing forward to the rear holes.

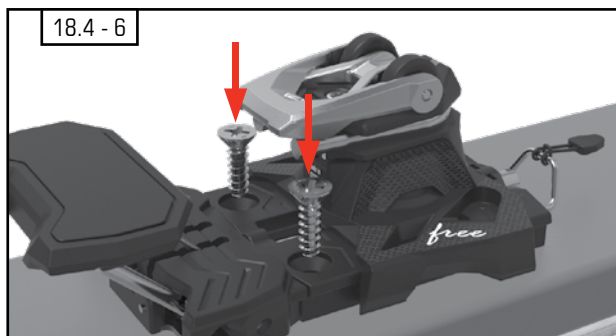
INSTALLING THE HEEL WITH PREMOUNTED BRAKE:

- Mount the heel from top to the brake. (18.4 - 3)
- Install the heel with the pre - installed screws in the holes. Tighten the two rear screws lightly, then firmly. (18.4 - 4)

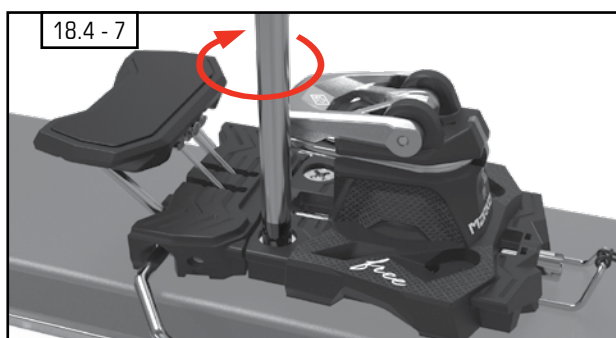
18.4 INSTALLATION OF MARKER ALPINIST FREE BINDINGS



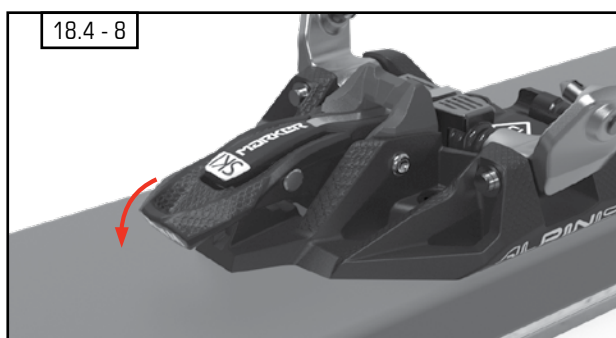
- Screw the heel backward by turning the length adjustment screw until the front screw holes are accessible. (18.4 - 5)



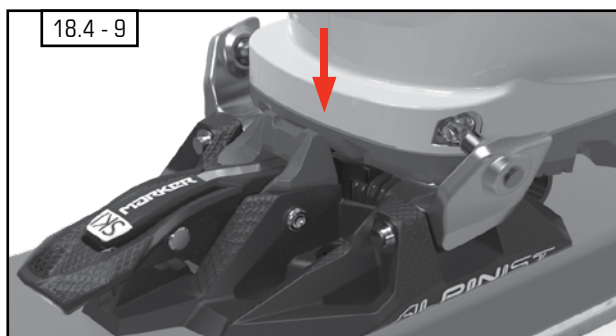
- Insert the two front screws. (18.4 - 6)



- Tighten the screws lightly, then firmly. (18.4 - 7)



- Open the toe by pressing down the toe opening lever. (18.4 - 8)

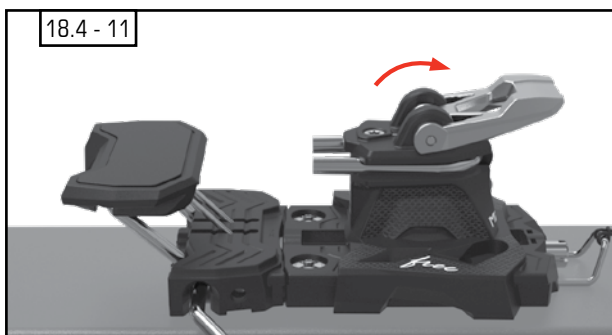


- Position the tip of the ski boot between the retaining pins on the toe. Then press the tip of the boot down and step into the toe. (18.4 - 9)

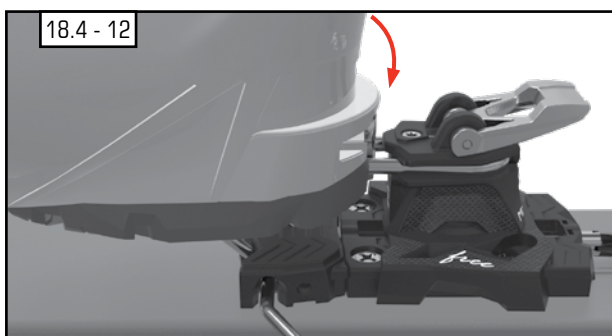
18.4 INSTALLATION OF MARKER ALPINIST FREE BINDINGS



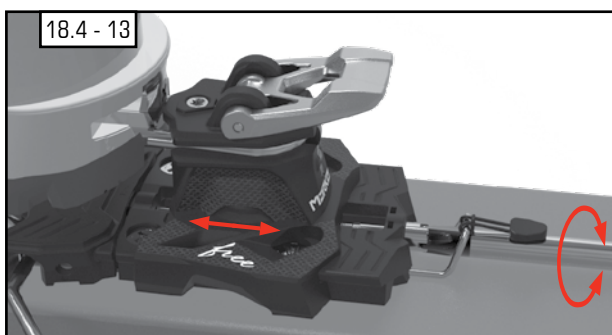
- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (18.4 - 10)



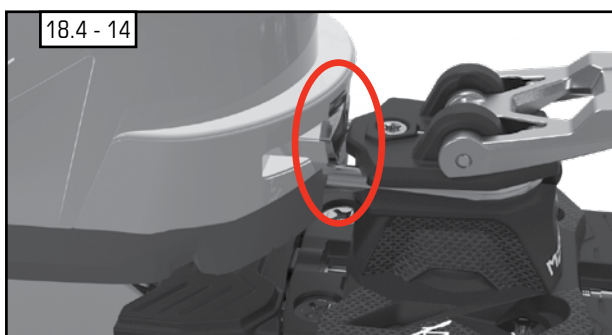
- Fold the hiking aid backwards. (18.4 - 11)



- Attach the heel of the boot to the heel binding. (18.4 - 12)



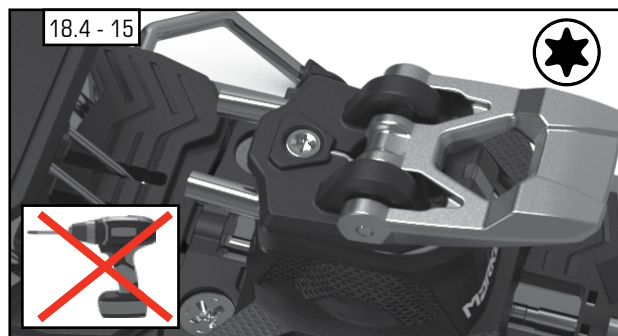
- Position the heel by turning the length adjustment screw. (18.4 - 13)



- Check the correct heel position: the boot has to be flush with the heel housing. (18.4 - 14)

NOTE: see PERFORMANCE BOOSTER → 18.5

18.4 INSTALLATION OF MARKER ALPINIST FREE BINDINGS



IMPORTANT !

For the adjustment of the lateral heel release force a Torx wrench TX 20 is needed ! (18.4 - 15)

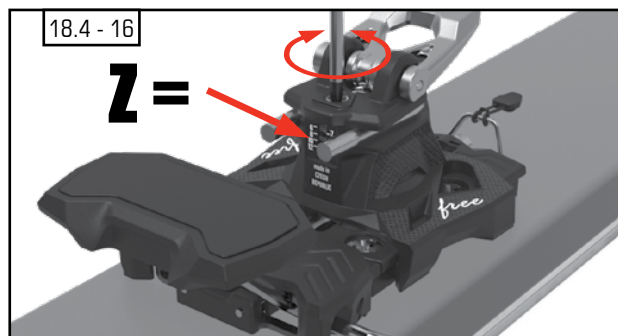
Adjust the release values solely by hand, do not use an electric screwdriver !

- Adjust the lateral release force. (18.4 - 16)



CAUTION:

MARKER ALPINIST FREE ski bindings are not TÜV-certified and therefore do not meet the relevant standards, in particular DIN/ISO 13992. The product meets the current technical requirements using the latest technology.



RELEASE VALUE SELECTION AND ADJUSTMENT:

- Following the correct boot-to-binding adjustment, 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



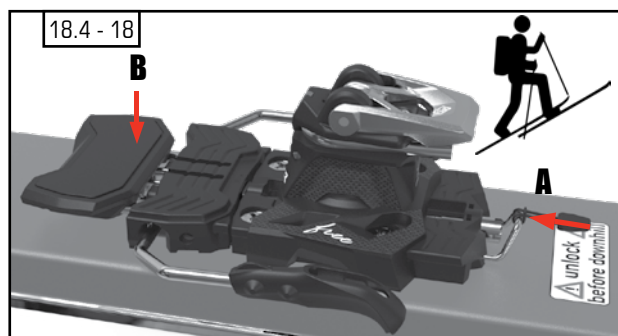
CAUTION !

The lateral 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



CAUTION !

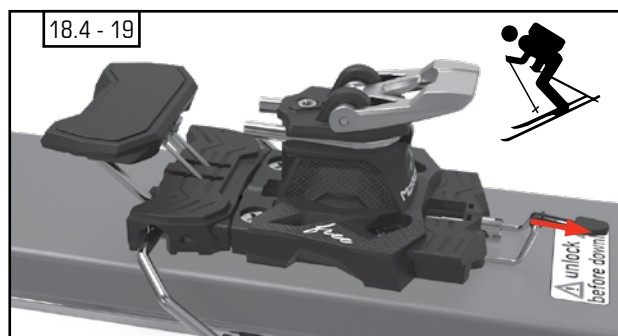
Fine-adjusting the release value for vertical release is not possible! The value can only be determined roughly by selecting the matching U-bow. → see page 155



NOTE:

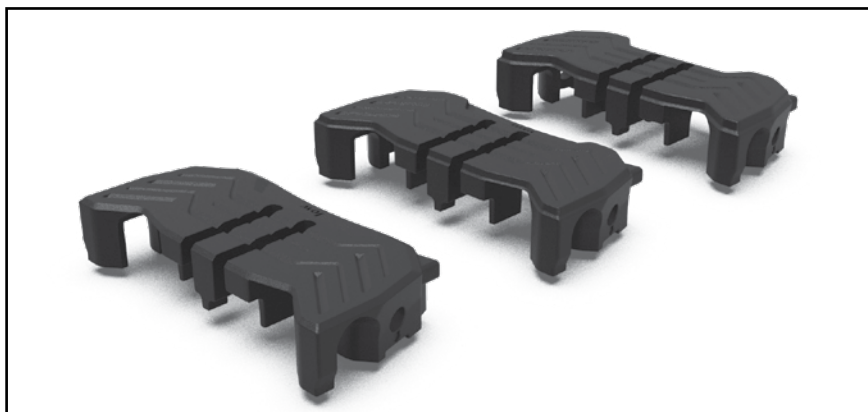
When mounting the binding make sure that you fit the enclosed stickers (brake) to the ski. (18.4 - 17)

- 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 or by stepping down on the pedal when stepping in. (18.4 - 18)



- 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. (18.4 - 19)

18.5 MARKER ALPINIST FREE PERFORMANCE BOOSTER



ALPINIST FREE PERFORMANCE BOOSTER

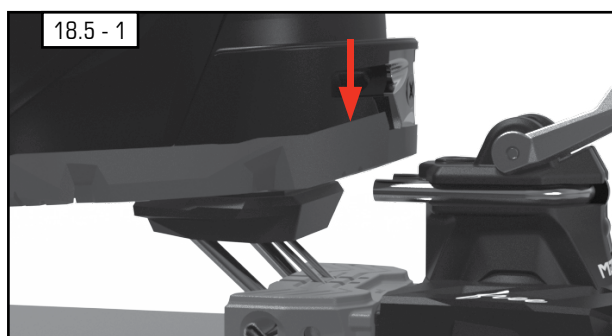


For optimal adjustment of the binding to the respective boot, the models Alpinist Free (with brake) are equipped with heel platforms with different stand heights.

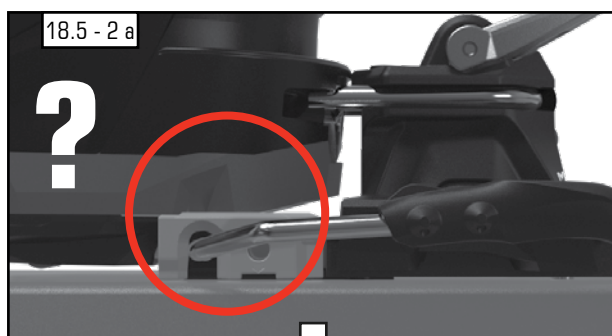
NOTE:

The ALPINIST FREE Performance Booster is also available as an accessory: Art. Nr.: WQ41Y1B

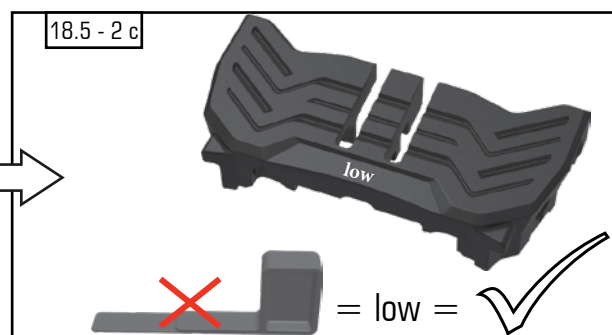
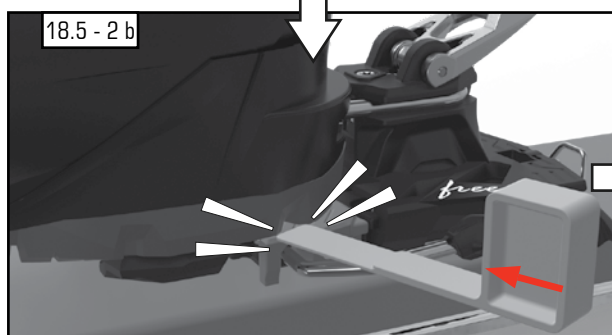
INSTALLATION OF THE ALPINIST FREE PERFORMANCE BOOSTER



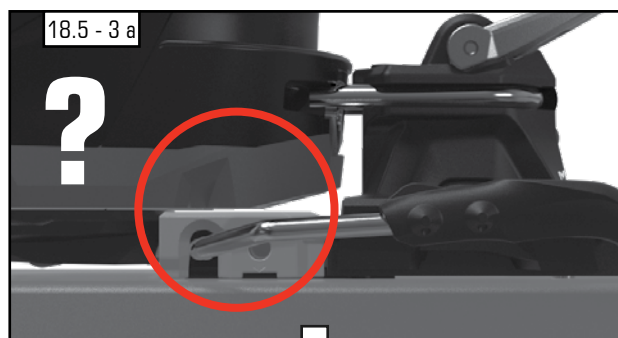
- Push the heel of the boot straight down and enter the heel part. (18.5 - 1)



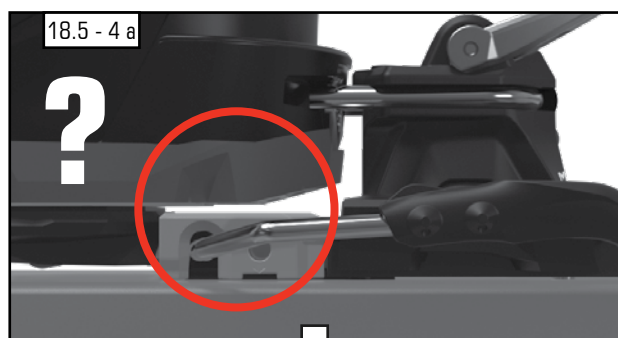
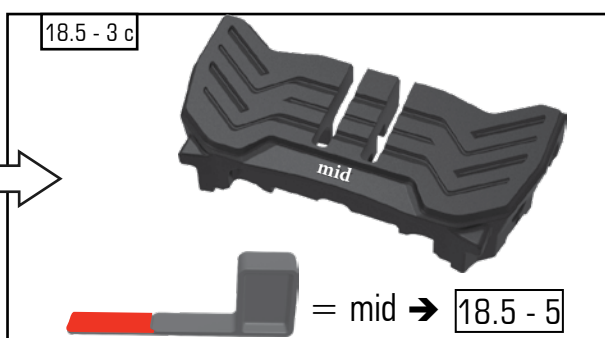
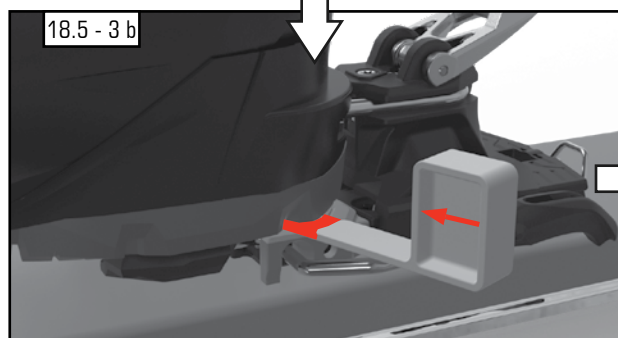
- If there is no visible gap between the boot sole and the brake platform and the gauge cannot be pushed between the sole and the platform, the distance is correct. The (pre-assembled) brake platform "low" provides the appropriate stand height. (18.5 - 2 a - c)



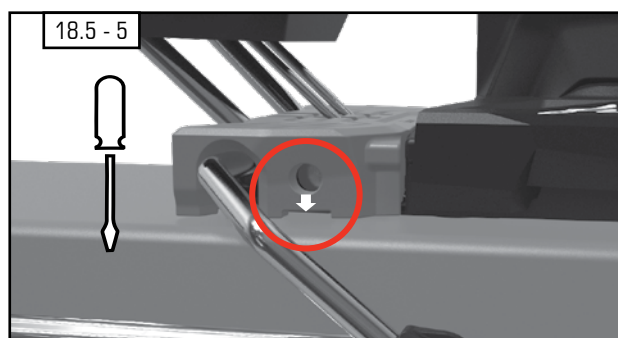
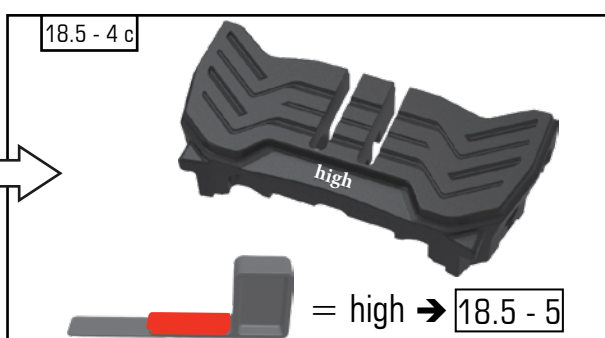
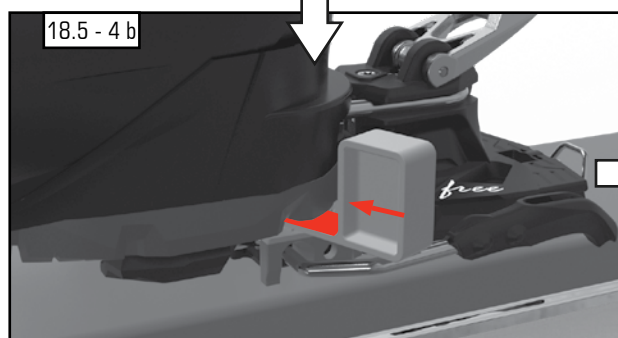
18.5 MARKER ALPINIST FREE PERFORMANCE BOOSTER



- If there is a visible gap of approx. 1 mm between the sole and the heel platform and the gauge can be pushed between the sole and the platform until the first stop, the platform should be replaced, the platform "mid" gives the appropriate stand height. (18.5 - 3 a - c)



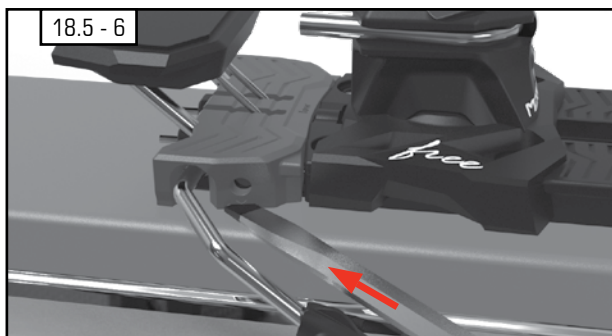
- If there is a visible gap of approx. 2 mm between the sole and the heel platform and the gauge can be pushed between the sole and the platform until the rear stop, the platform should be replaced, the heel platform "high" gives the appropriate stand height. (18.5 - 4 a - c)



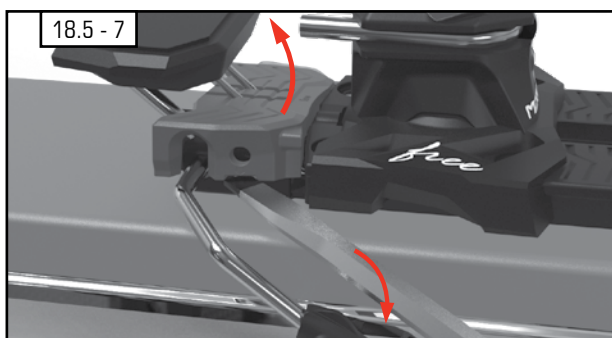
REPLACING THE HEEL PLATFORM

- A small flat-head screwdriver is required to replace the platform.
- There is a small cutout on the left side of the heel platform to unlock the connection. (18.5 - 5)

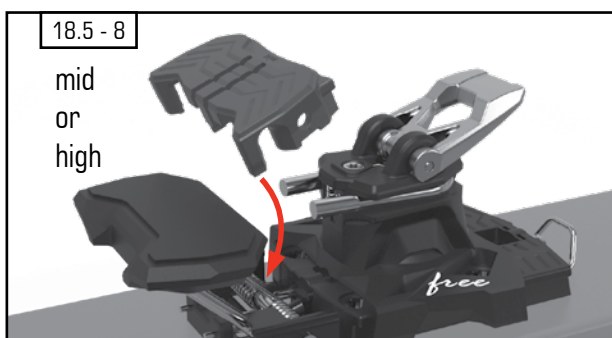
18.5 MARKER ALPINIST FREE PERFORMANCE BOOSTER



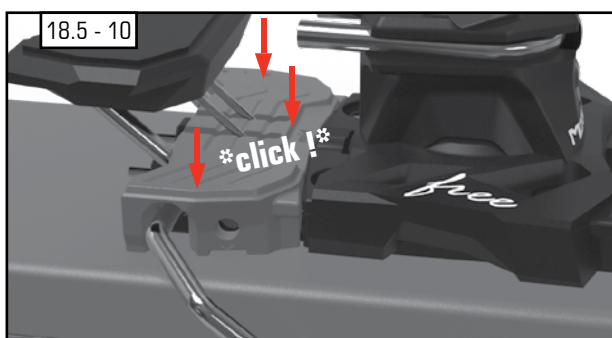
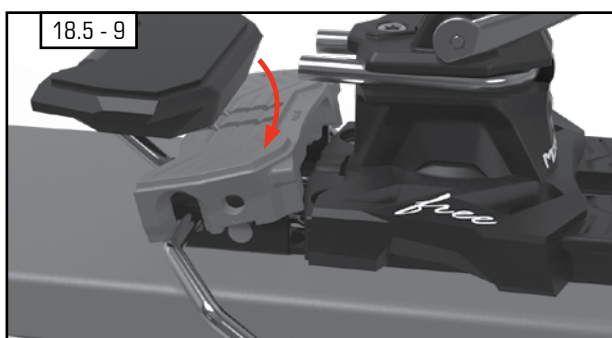
- Insert the screwdriver carefully into this cutout and unlock the connection.



- Lift the heel platform back/up off the brake. (18.5 - 6 & 18.5 - 7)



- Place the replacement platform "mid" or "high" onto the brake from the rear/top. (18.5 - 8 & 18.5 - 9)



- Press the heel platform downwards until it snaps noticeably into place. (18.5 - 10)

18.6 MARKER ALPINIST (ALL MODELS) - INFORMATION FOR THE SKIER



The following instructions must be given to the intended user of a MARKER ALPINIST / ALPINIST FREE / ALPINIST JR LT / ALPINIST DEMO binding:

NOTE:

The total load of 110 kg / 242 lbs for the binding system must not be exceeded. (18.6 - 1)



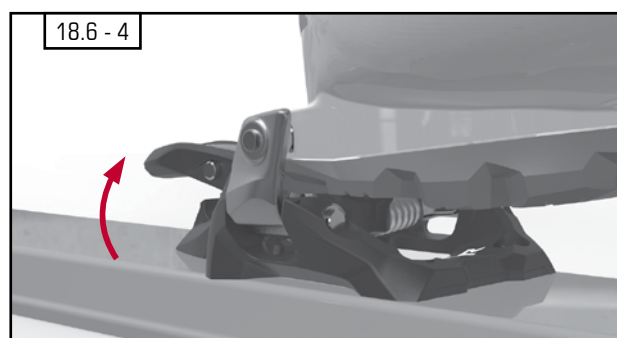
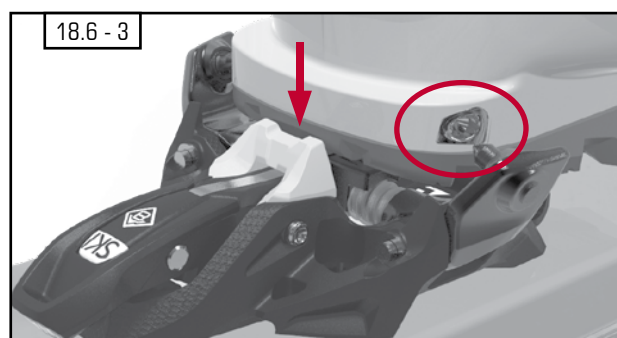
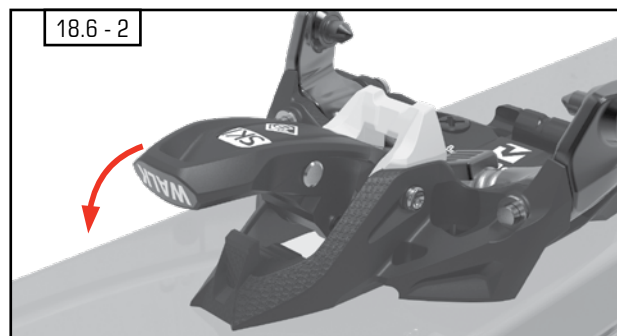
CAUTION:

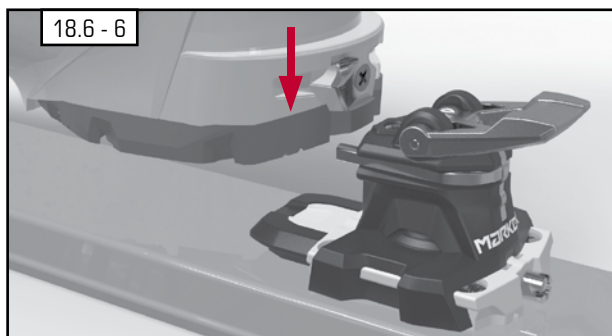
MARKER ALPINIST & ALPINIST FREE & ALPINIST JR LT & ALPINIST DEMO ski bindings do not meet ISO Certification.

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.

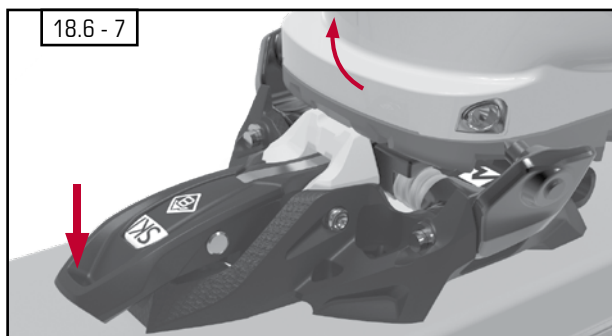
STEP IN:

- Clear snow, ice and dirt from the sole of the ski boot and the Pin-Tech inserts before stepping into the binding. (18.6 - 2)
- If the toe is closed, open it by pressing down the toe opening lever. (18.6 - 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. (18.6 - 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. (18.6 - 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. (18.6 - 5)

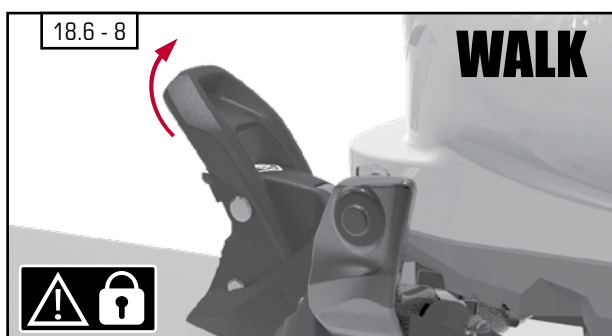


18.6 MARKER ALPINIST (ALL MODELS) - INFORMATION FOR THE SKIER

- 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. (18.6 - 6)

**STEP OUT (INCLUDING AFTER A FALL IN AN EMERGENCY)**

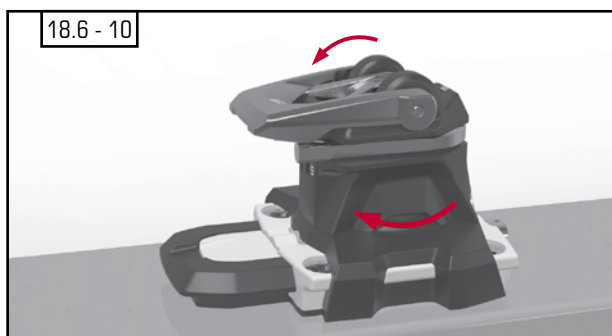
- Press down the opening lever on the toe with a ski pole, ski, ski boot or by hand.
- Lift the tip of the ski boot slightly and rotate the boot sideways out of the binding. (18.6 - 7)

**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. (18.6 - 8)



- Turn the heel by 180° so that the locking bolts in the heel face towards the tail of the ski. (18.6 - 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

18.6 MARKER ALPINIST (ALL MODELS) - INFORMATION FOR THE SKIER

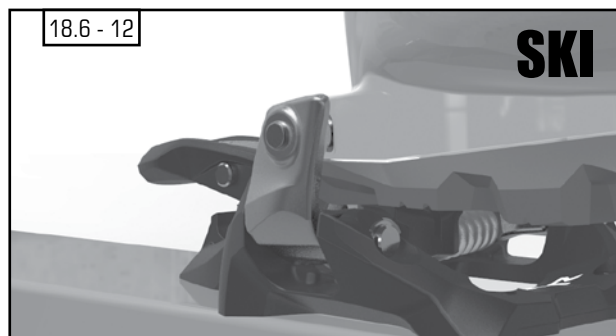


forwards (18.6 - 10).

- Upper hiking aid position: to use this position: Turn the heel holder by 180° (locking bolts face backward) and push the hiking aid forward. (18.6 - 11)

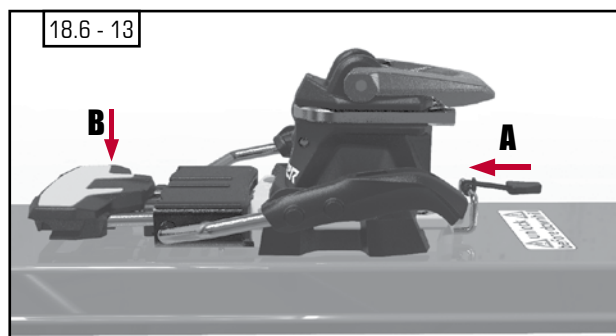
CHANGE OVER FROM HIKING TO SKIING POSITION

- 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 (18.6 - 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: 18.6 - 5)

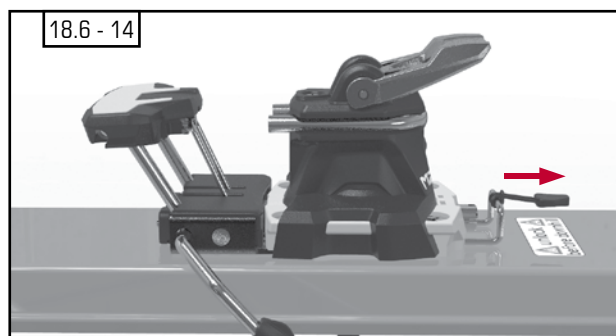


SKI BRAKE:

- 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 DEMO 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. (18.6 - 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. (18.6 - 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.



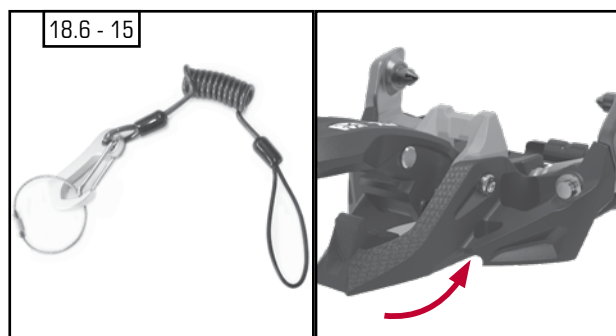
IMPORTANT SAFETY ADVICE !

The MARKER ALPINIST / ALPINIST DEMO 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. (18.6 - 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. (18.6 - 15)

18.6 MARKER ALPINIST (ALL MODELS) - 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 & ALPINIST FREE & ALPINIST JR LT & ALPINIST DEMO** 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.

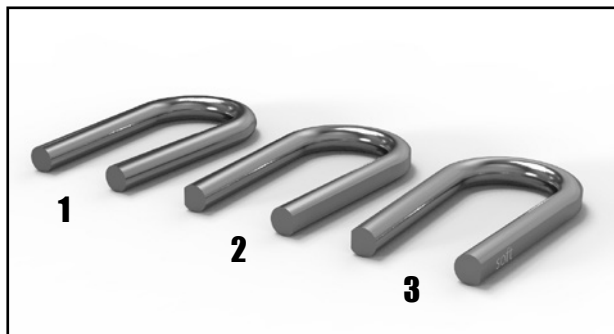
SKIER SIGNATURE

- 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.

18.7 MARKER ALPINIST (ALL MODELS) - ACCESSORIES



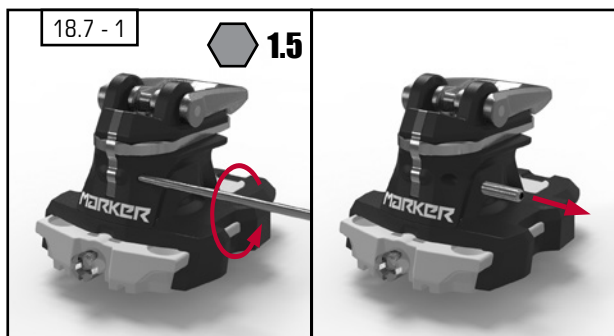
For the customization of the binding models ALPINIST, ALPINIST FREE & ALPINIST DEMO MARKER offers locking bolts (U - bows) in 3 different settings:

- (1) A001S1UH MARKER ALPINIST U - bow hard
- (2) A001S1UM MARKER ALPINIST U - bow med
- (3) A001S1US MARKER ALPINIST U - bow soft

U - bow hard: premounted on ALPINIST 12 & ALPINIST FREE 13

U - bow med: premounted on ALPINIST 10 & ALPINIST FREE 11

U - bow soft: premounted on ALPINIST 8



REPLACEMENT OF THE LOCKING BOLT U-BOW:

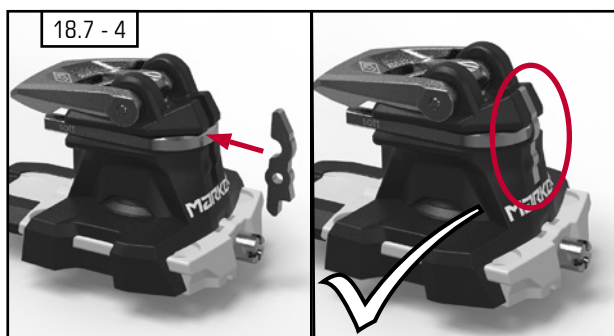
- Loosen and remove the lock screw, this requires an # 1.5 Allen key. (18.7 - 1)



- Remove the locking element. (18.7 - 2)

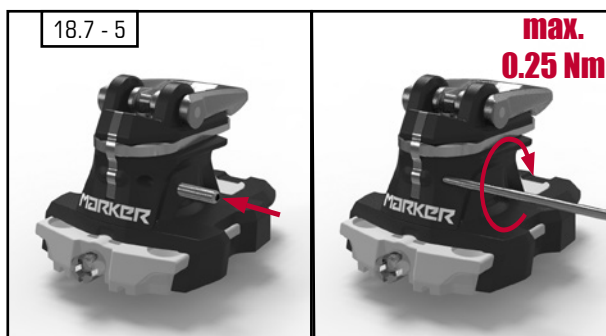


- Pull the locking bolt backwards from the heel housing, slide the replacement bow (Spring) onto the housing. (18.7 - 3)



- Attach the locking element to the heel, the locking element has to be flush with the heel housing. (18.7 - 4)

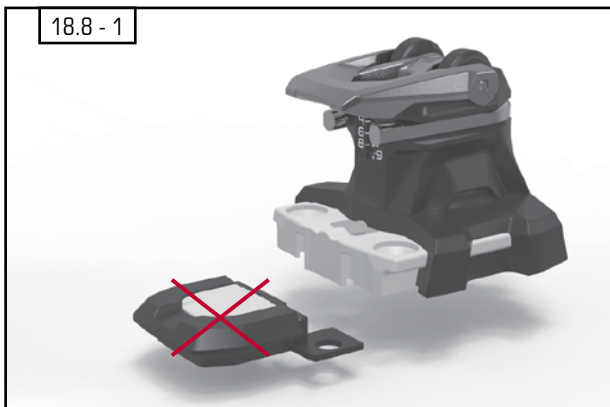
- Insert and tighten the lock screw. Do not exceed a tightening torque of 0.25 Nm. (18.7 - 5)



18.8 MARKER ALPINIST - BRAKES



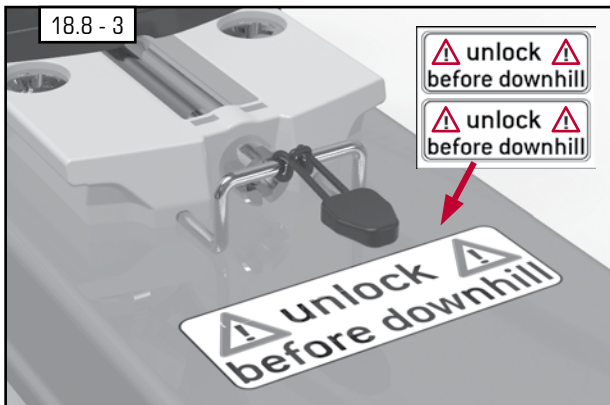
18.8 - 1



18.8 - 2



18.8 - 3

**SKI BRAKES:**

- MARKER offers ski brakes with different widths for the binding models MARKER ALPINIST. The MARKER ALPINIST FREE, ALPINIST JR LT & ALPINIST DEMO models are fitted with brakes as standard.

W031W1B MARKER ALPINIST brake; 90 mm

W032W1B MARKER ALPINIST brake; 105 mm

W033W1B MARKER ALPINIST brake; 115 mm

W034W1B MARKER ALPINIST JR LT & DEMO brake; 90 mm

W035W1B MARKER ALPINIST JR LT & DEMO brake; 105 mm

W040Y1B MARKER ALPINIST FREE brake; 90 mm

W038Y1B MARKER ALPINIST FREE brake; 105 mm

W039Y1B MARKER ALPINIST FREE brake; 115 mm

- For mounting the ski brakes the heel platform has to be removed. (18.8 - 1)
- Mount the heel from top to the brake. (18.8 - 2)
- The further installation of the binding has to be carried out as described in chapter → **18.2**.

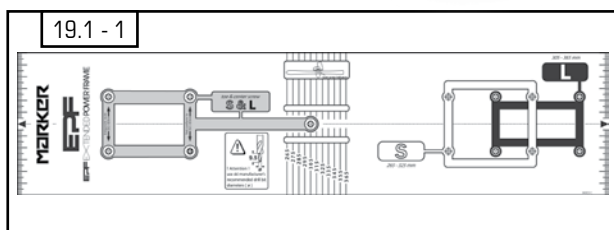
NOTE:

When mounting the binding make sure that you fit the enclosed stickers to the ski. (18.8 - 3)

NOTE:

Locking / unlocking of the brake and security advices: see → **18.6 "Information for the skier"**

19.1 INSTALLATION OF MARKER F 12 TOUR EPF



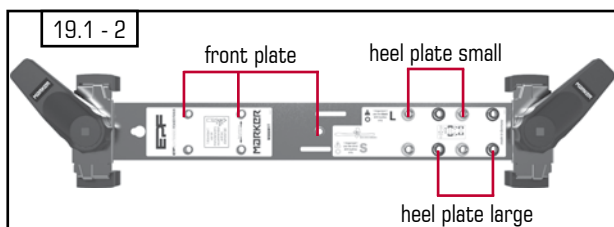
CAUTION !

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 (19.1 - 1) or the installation tool EPF, W006M1T (19.1 - 2).

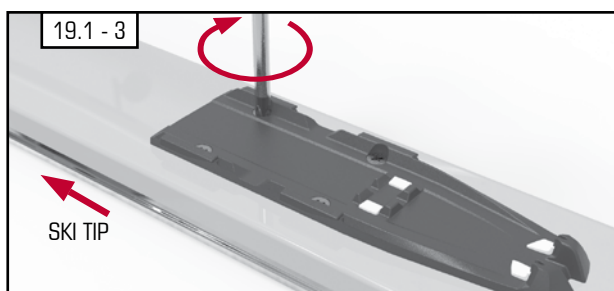
This new hole spacing has been agreed with the following ski manufacturers, to ensure screw pull-out resistance values comply with ISO 8364: Völkl, K2, Nordica, Blizzard, Movement, Line. For other brands of skis, please contact your ski manufacturer directly.



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 ISO 13992 and 9462 and are designed for the following standard boot soles:



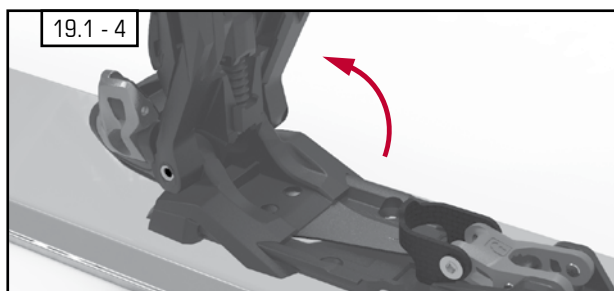
- Touring ski boots for adults ISO 9523
- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"

DRILLING THE ATTACHMENT HOLES:

- Place the MARKER EPF installation tool W006M1T (19.1 - 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

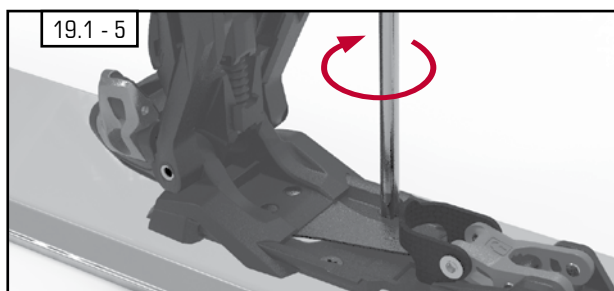


INSTALLING THE HEEL PLATE:

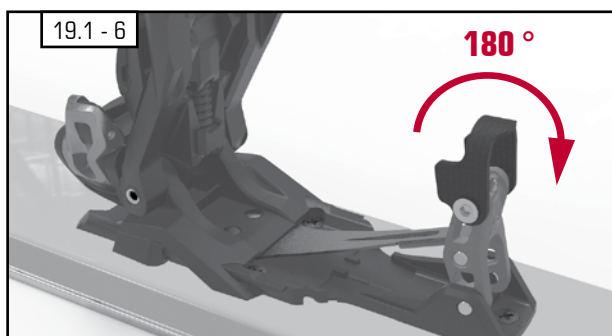
- Install the heel plate with the 4 pre - installed screws. Tighten the screws lightly, then firmly (19.1 - 3).

INSTALLING THE TOE:

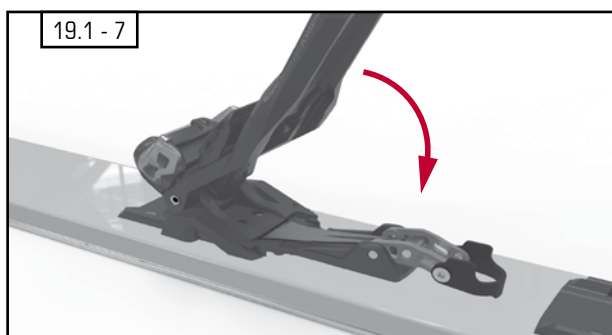
- Open the binding and install the front plate with the 3 pre - installed screws. Tighten the screws lightly, then firmly (19.1 - 4 and 19.1 - 5).



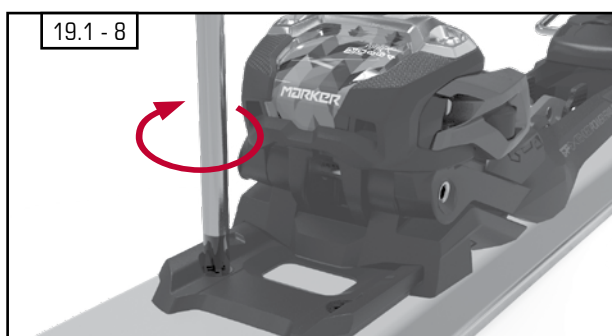
19.1 INSTALLATION OF MARKER F 12 TOUR EPF



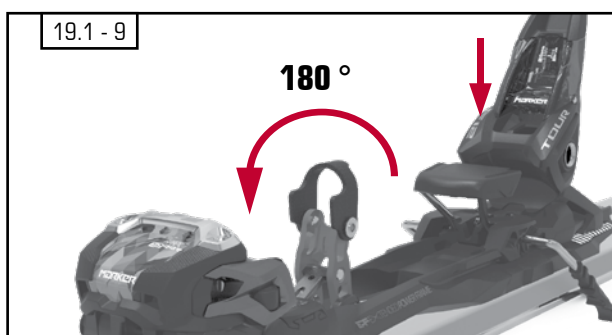
- Switch the TOUR engagement lever to the unlocked position (19.1 - 6)



- and lower the binding afterwards (19.1 - 7).



- Insert and tighten the 2 front screws (19.1 - 8).



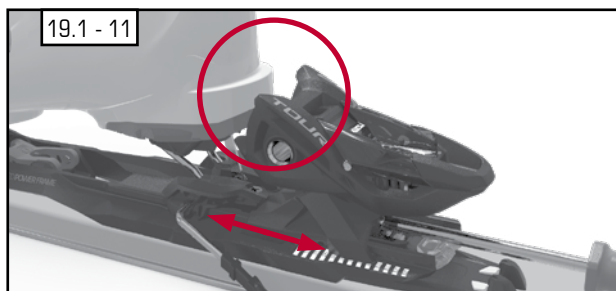
- Press down the TOUR plate and switch the engagement lever to the locked position (19.1 - 9). Check that the TOUR plate is fully and uniformly sliding into the heel plate attachments.



CAUTION !

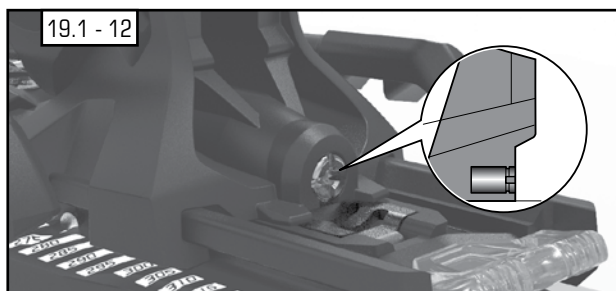
Ensure that the TOUR plate is fully and uniformly sliding into the heel plate attachments when the engagement lever is closed (19.1 - 10).

19.1 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 (19.1 - 11).

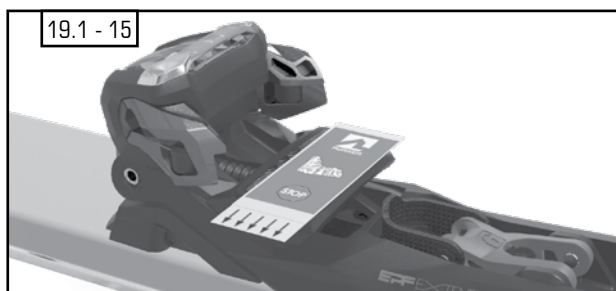
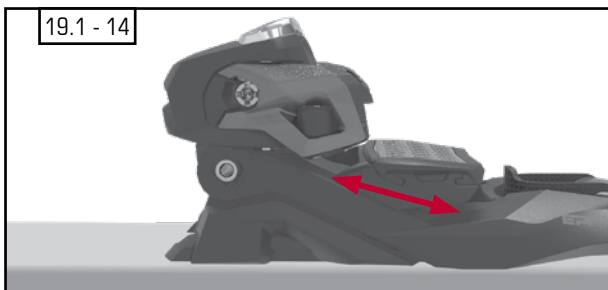


CHECK FORWARD PRESSURE:

- 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 (19.1 - 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.

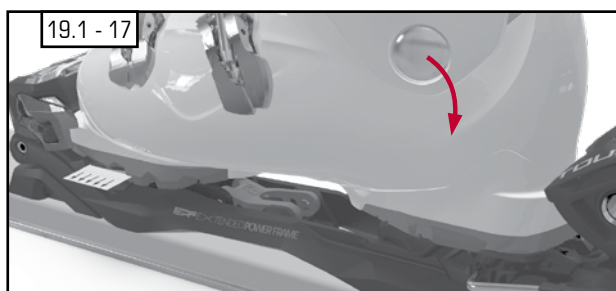


Turning the adjustment screw clockwise moves the AFD gliding plate up.

Turning the adjustment screw counterclockwise moves the AFD gliding plate down (19.1 - 13 / 19.1 - 14).

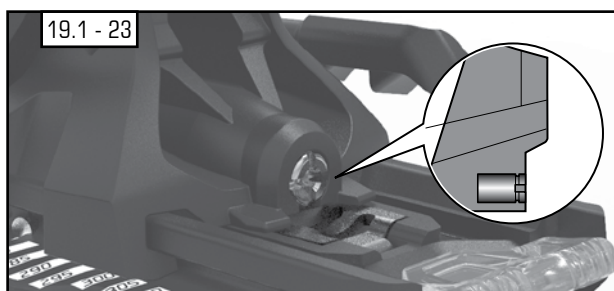
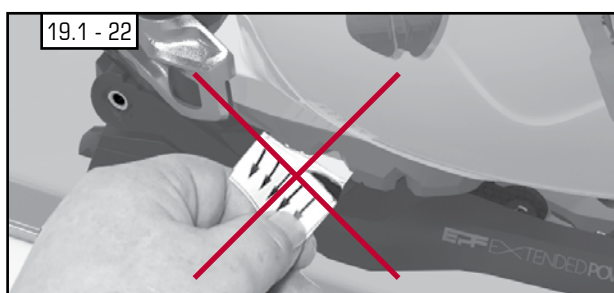
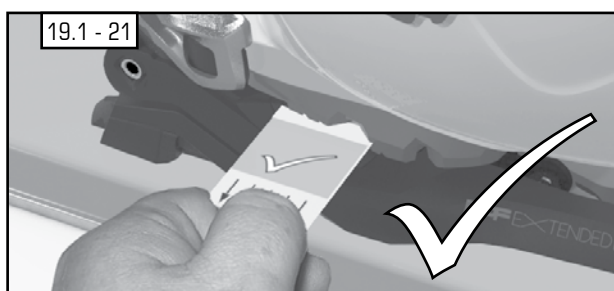
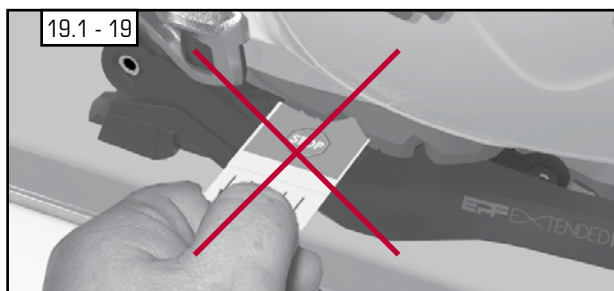
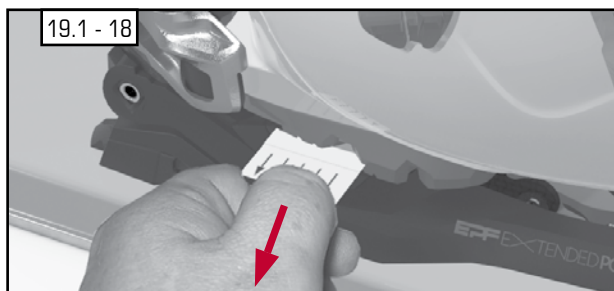


- Place the height test strip on the gliding AFD with the red marked side up (19.1 - 15 and 19.1 - 16).



- Place the ski boot into the binding and close it (19.1 - 17).

19.1 INSTALLATION OF MARKER F 12 TOUR EPF



- Pull out the lower part of the test strip carefully. (19.1 - 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. (19.1 - 19)
- Adjust the height of the gliding AFD by turning the adjustment screw (19.1 - 20) so that you can pull out the green marked lower part of the test strip just before it tears (19.1 - 21 and 19.1 - 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. (19.1 - 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 !

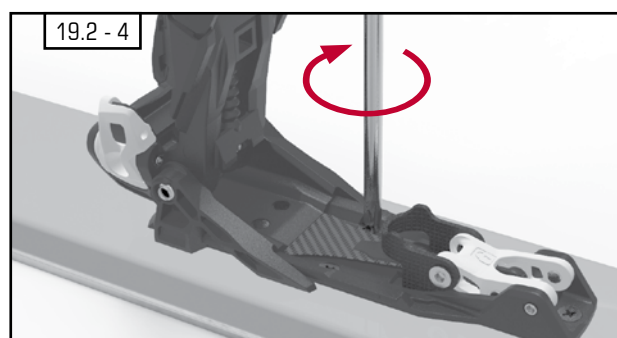
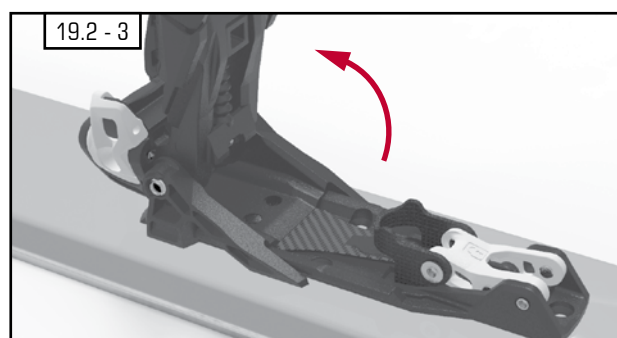
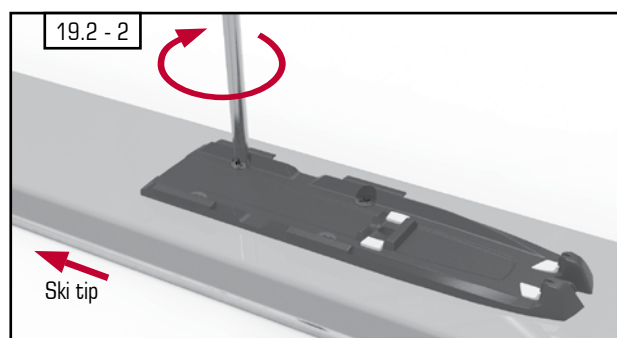
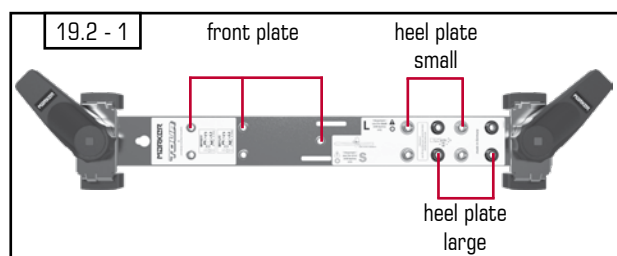
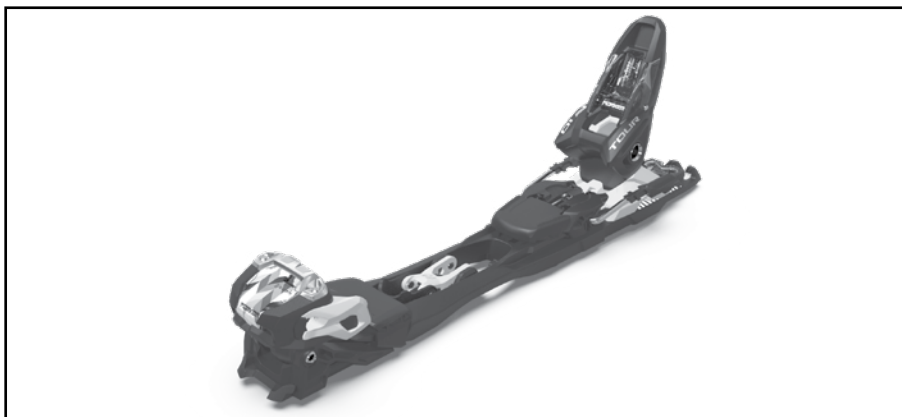
See INFORMATION FOR THE SKIER

→ 15.4

→ 15.5

→ 15.8

19.2 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 ISO 13992 and 9462 and are designed for the following standard boot soles:

- Touring ski boots for adults ISO 9523
- Alpine ski boots for adults ISO 5355
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"



DRILLING THE ATTACHMENT HOLES:

- Place the MARKER TOUR installation tool W010G1T or W011J1T (6.2 - 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

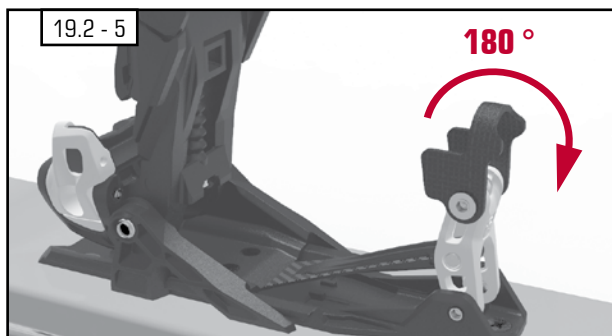
INSTALLING THE HEEL PLATE:

- Install the MARKER TOUR heel plate with the 4 pre - installed screws. (19.2 - 2)

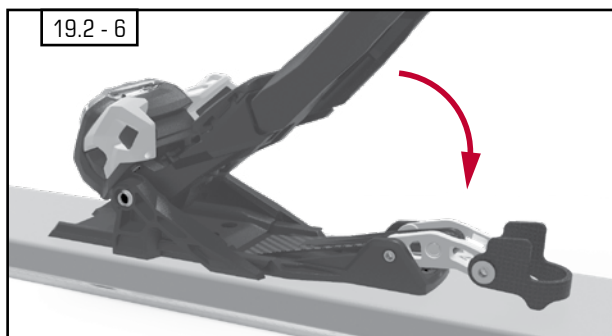
INSTALLING THE TOE:

- Open the binding and install the front plate with the 3 pre - installed screws (19.2 - 3 / 19.2 - 4).

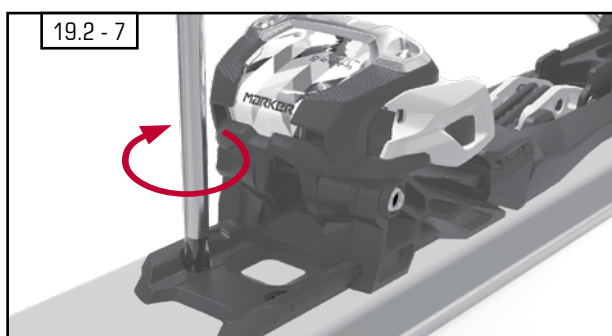
19.2 INSTALLATION OF MARKER F10 TOUR



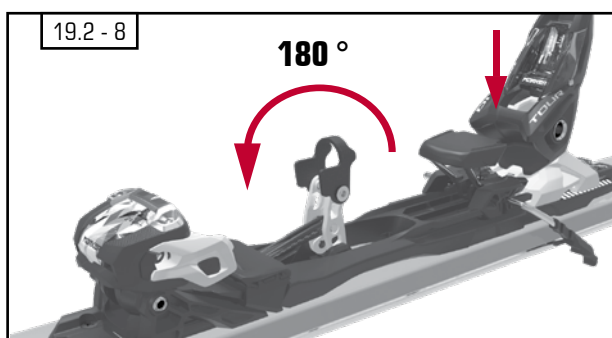
- Switch the TOUR engagement lever to the unlocked position (19.2 - 5)



- and lower the binding afterwards (19.2 - 6).



- Insert and tighten the 2 front screws (19.2 - 7).



- Press down the TOUR plate and switch the engagement lever to the locked position (19.2 - 8). Check that the TOUR plate is fully and uniformly sliding into the heel plate attachments.



CAUTION !

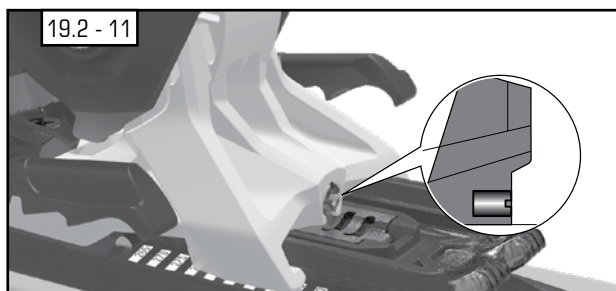
Ensure that the TOUR plate is fully and uniformly sliding into the heel plate attachments when the engagement lever is closed (19.2 - 9).

19.2 INSTALLATION OF MARKER F 10 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 (19.2 - 10).

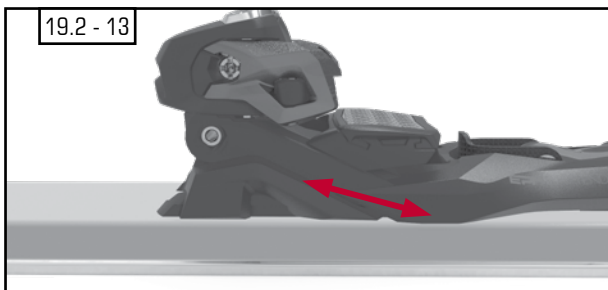
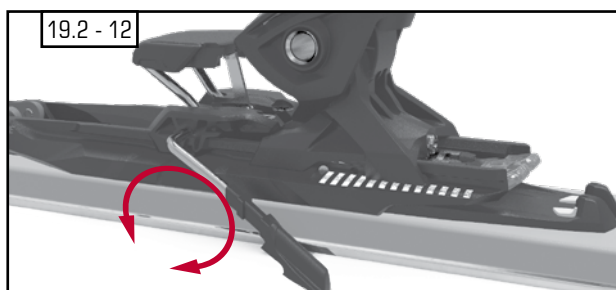


CHECK FORWARD PRESSURE:

- 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 (19.2 - 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.

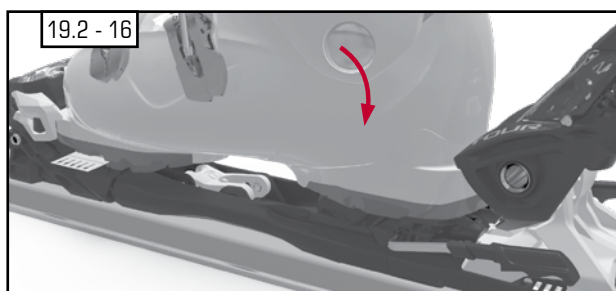


Turning the adjustment screw clockwise moves the AFD gliding plate up.

Turning the adjustment screw counterclockwise moves the AFD gliding plate down (19.2 - 12 / 19.2 - 13).

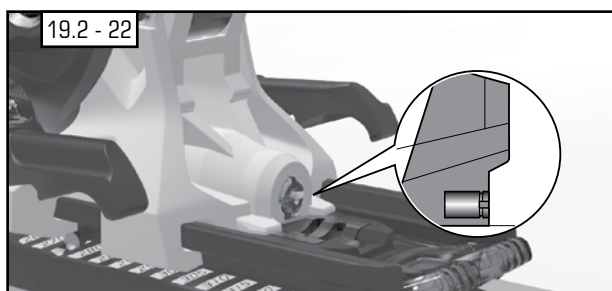
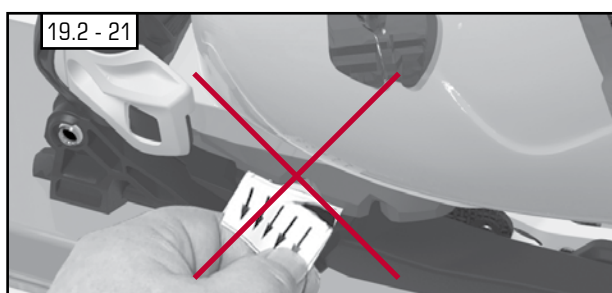
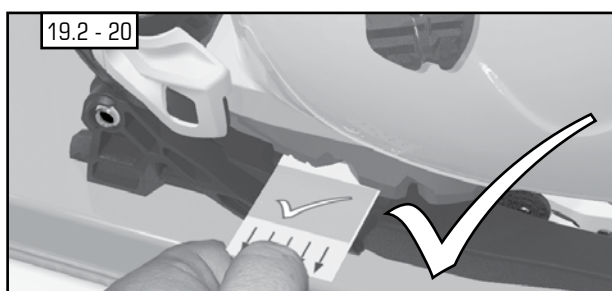
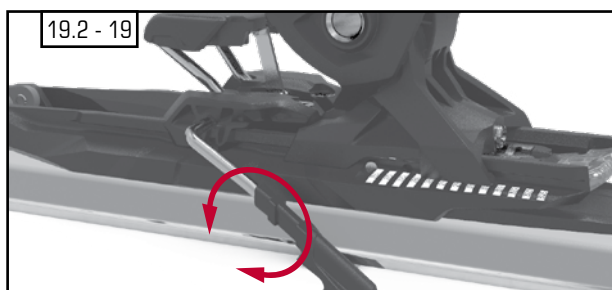
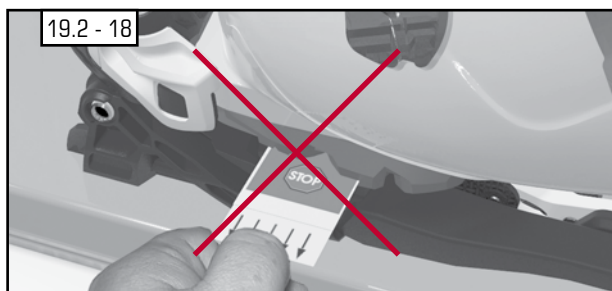
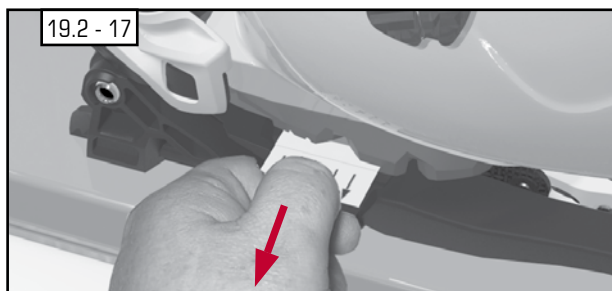


- Place the height test strip on the gliding AFD with the red marked side up (19.2 - 14 and 19.2 - 15).



- Place the ski boot into the binding and close it (19.2 - 16).

19.2 INSTALLATION OF MARKER F10 TOUR



- Pull out the lower part of the test strip carefully. (19.2 - 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. (19.2 - 18)
- Adjust the height of the gliding AFD by turning the adjustment screw (19.2 - 19) so that you can pull out the green marked lower part of the test strip just before it tears (19.2 - 20 and 19.2 - 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. (19.2 - 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

19.3 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 100, the following instructions must be given to the intended user of a MARKER TOUR

CHANGING FROM SKIING - MODE TO WALKING - MODE:

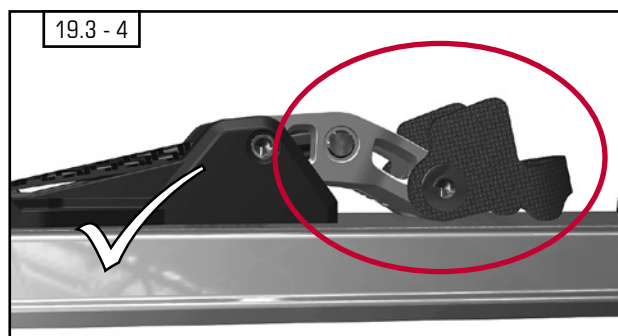
The TOUR engagement lever is located in the middle of the system plate.



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



In order to change from the skiing - mode (locked position, (19.3 - 1) to the walking - mode (unlocked position, (19.3 - 3) switch the lever 180° backward (19.3 - 2)



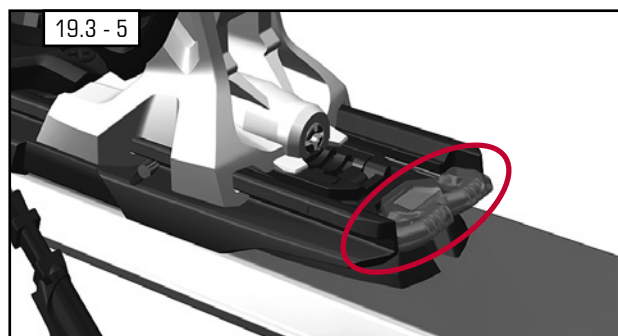
IMPORTANT !



The engagement lever has to be switched completely to the walk position, the lever has to be flush with the ski's top (19.3 - 4)

USING THE HIKING - AIDE:

You can use the hiking - aide (19.3 - 5) in two positions when you are in the walking - mode.

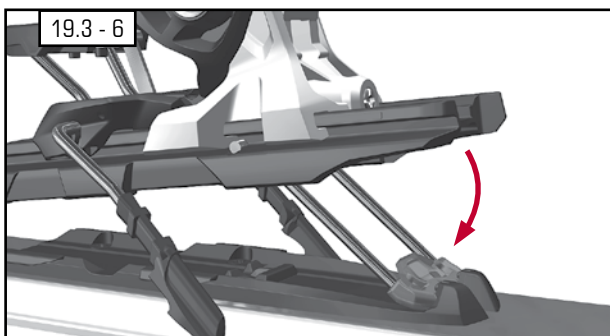


IMPORTANT !



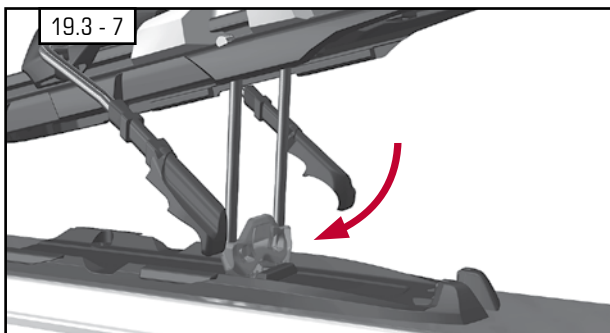
Point out to the customer that the function of the climbing aide can be affected (the climbing aide can fold up) when the engagement lever is not completely switched to the walk position (flush with the ski top surface).

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



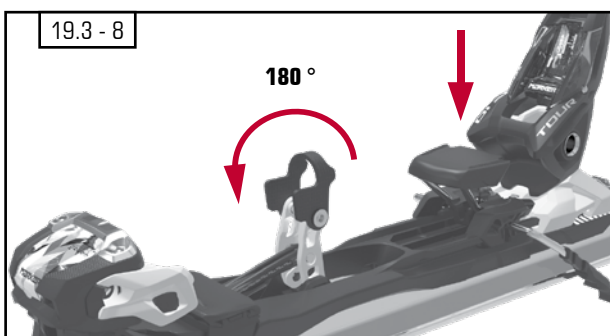
HIKING AIDE LOW POSITION

Fold the hiking - aide downward with the ski pole or by hand to the 7 ° position (19.3 - 6).



HIKING AIDE HIGH POSITION:

- Fold the hiking aid down with the ski pole or by hand to the 13 ° position. (19.3 - 7)



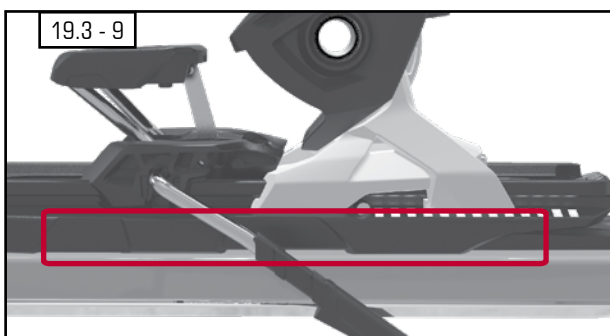
HIKING AIDE BASIC POSITION:

- 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 !

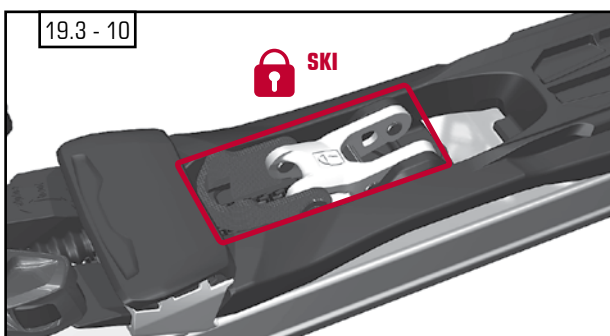


In order to change from the walking - mode (unlocked position) to the skiing - mode (locked position) switch the lever 180° forward (19.3 - 8).



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 (19.3 - 9) !



CAUTION !

Do not ski in the walking - mode (unlocked position) (19.3 - 10) !

19.4 INFORMATION FOR THE SKIER - F 12 TOUR EPF & F 10 TOUR CRAMPON



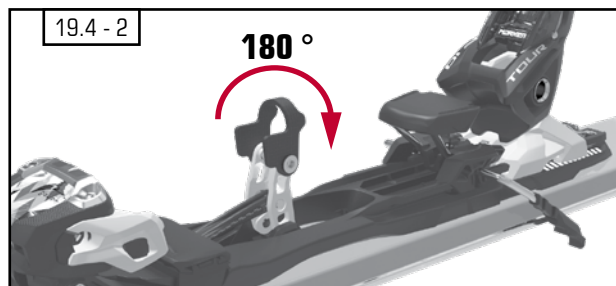
CRAMPONS:

MARKER offers special crampons for the MARKER F 12 TOUR EPF & F 10 TOUR (19.4 - 1)

Crampon 92 mm for ski width → 84 mm: Art.-Nr. H001M1A

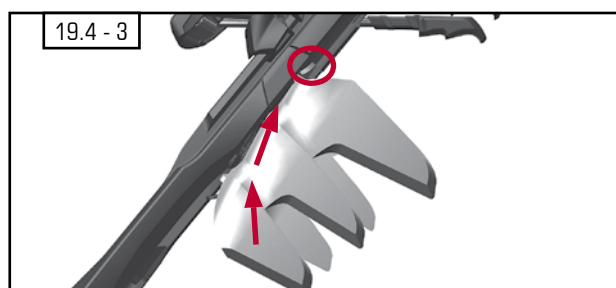
Crampon 113 mm for ski width → 106 mm: Art.-Nr. H002N1A

Crampon 128 mm for ski width → 120 mm: Art.-Nr. H004M1A



ATTACHING THE CRAMPONS:

- Open the engagement lever to the walking - mode (19.4 - 2).

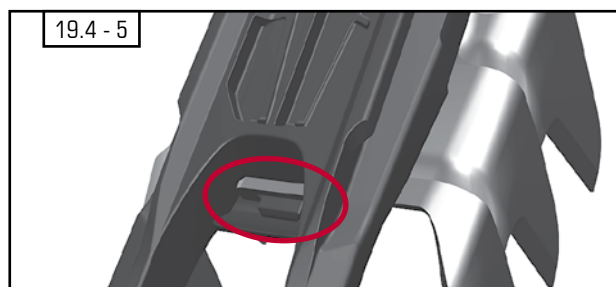


- Lift the plate and attach the crampon from below by sliding it backwards (19.4 - 3).



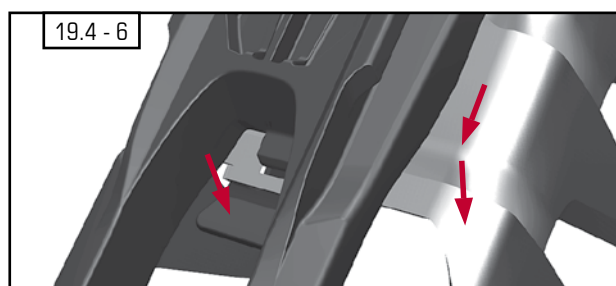
CAUTION !

Ensure that the crampon is properly engaged in the plate. (19.4 - 4 and 19.4 - 5)



CAUTION !

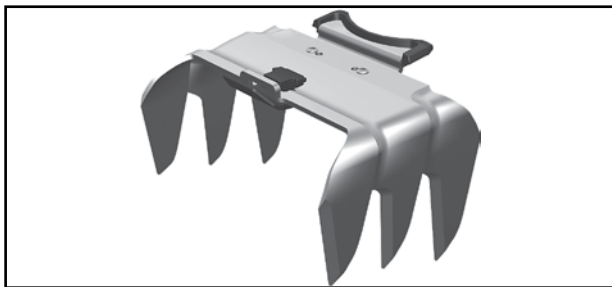
Do not use the crampon in combination with the high position hiking aid



DETACHING THE CRAMPONS:

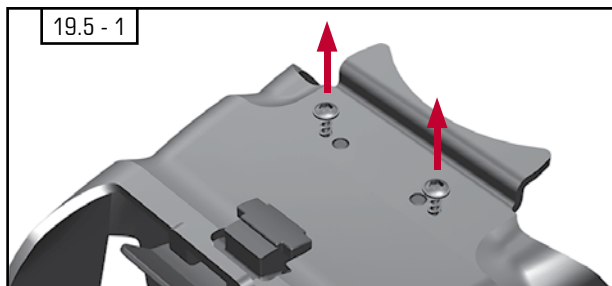
- Press down the black plastic lever from above and detach the crampon from the BCT plate (19.4 - 6).

19.5 INFORMATION FOR THE SKIER - TOUR 12 EPF

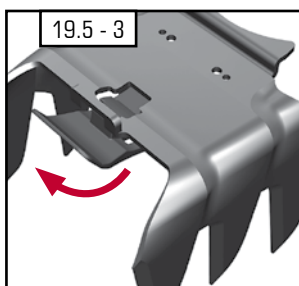
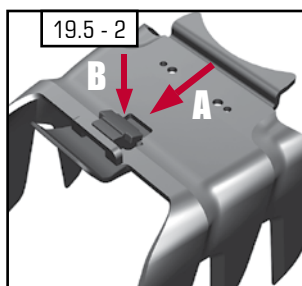
**ADAPTER FOR CRAMPONS:**

For fitting the crampon to the plate of the F 12 TOUR EPF the accompanying crampon adapter must be mounted on the crampons.

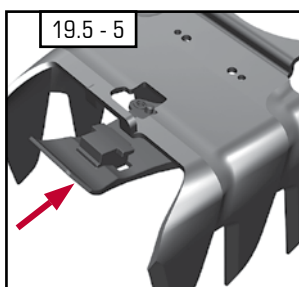
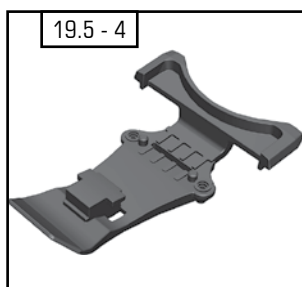
(Exception: crampon 128mm H004M1A & 113 mm H002N1A with premounted adapter)



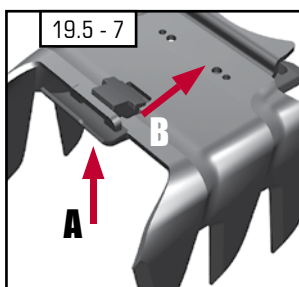
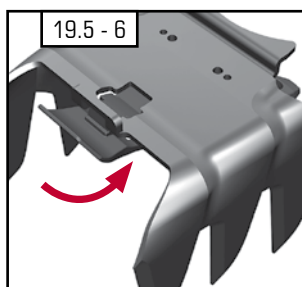
- Remove the screws (19.5 - 1)



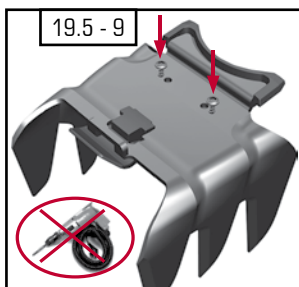
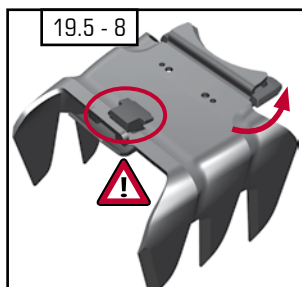
- Push the clamp down and towards the front, away from the crampon. (19.5 - 2 and 19.5 - 3)



- Fit the adapter (19.5 - 4) from the front / bottom to the crampon as shown. (19.5 - 5 and 19.5 - 6)

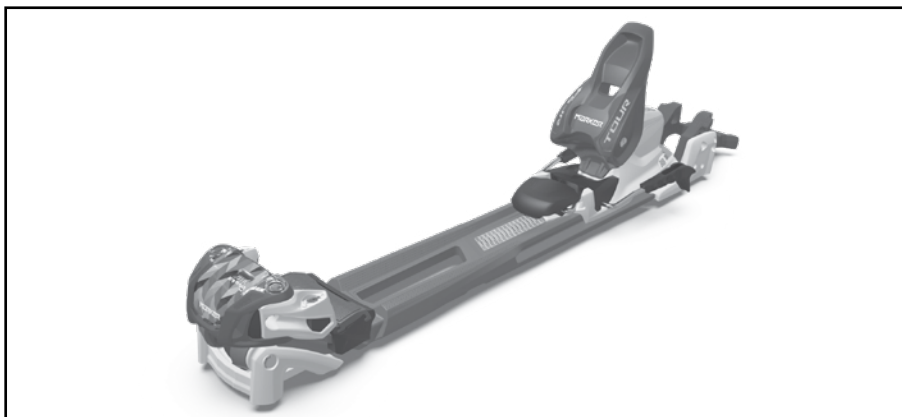


- Push the crampon adapter upwards and towards the back until it clicks into place. (19.5 - 7 and 19.5 - 8)



- Fit the screws and tighten them by hand. (19.5 - 9)

19.6 INSTALLATION OF MARKER F5 JR TOUR

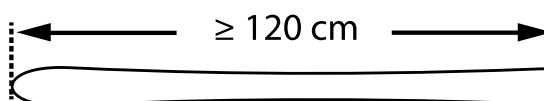


19.6 - 1

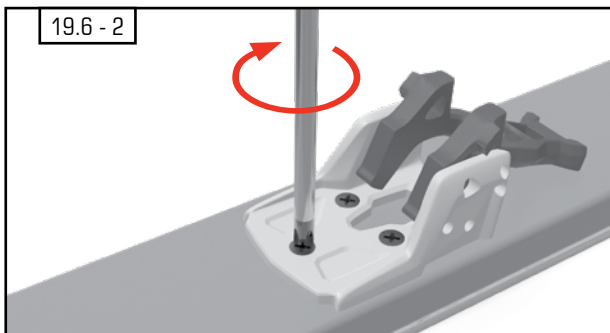


NOTE:

MARKER recommends mounting the F5 Jr Tour on skis with a length of ≥ 120 cm.



19.6 - 2

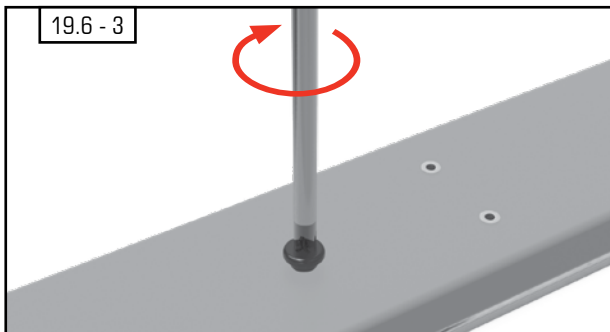


NOTE: (→ 20.3)

The binding model Marker F5 JR TOUR is designed for the following boot soles:

- Alpine ski boots for adults ISO 5355
- Alpine ski boots for children ISO 5355 (type C)
- Alpine ski boots for adults ISO 23223 with the additional marking "GripWalk®"
- Alpine ski boots for children ISO 23223 (type C) with the additional marking "GripWalk®"

19.6 - 3

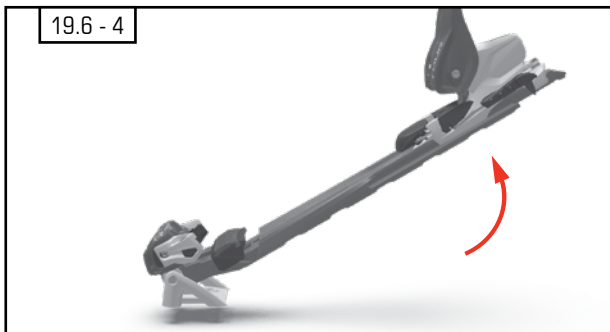


DRILLING THE ATTACHMENT HOLES:

- Place the MARKER F5 JR TOUR installation tool W018X1T (19.6 - 1) in the correct position on the ski.
- Drill 3 holes for the front plate and 3 holes for the heel plate through the drill bushings..
- Remove the installation tool from the ski.

REMARK: See DRILLING INSTRUCTIONS → 3.2

19.6 - 4



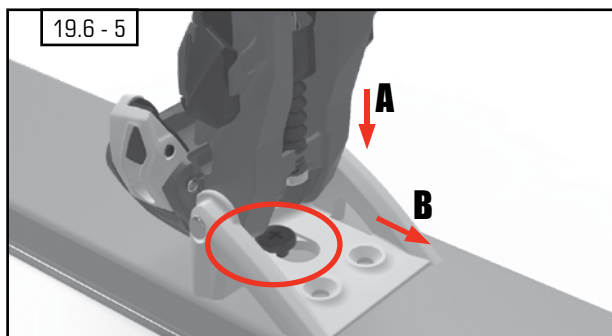
INSTALLING THE HEEL PLATE:

- Install the F5 JR TOUR heel plate with the 3 pre - installed screws. (19.6 - 2)

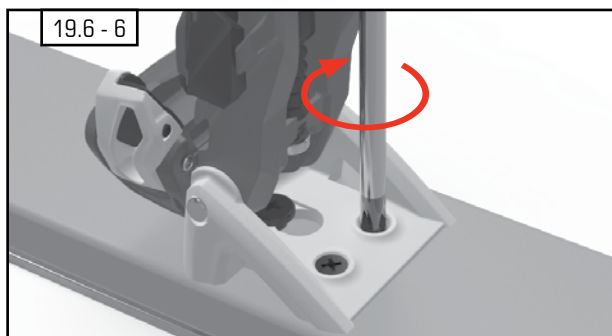
INSTALLING THE TOE / TOE PLATE:

- Tighten the center post screw by hand. Tighten the screw lightly, then firmly (19.6 - 3)
- Open the binding (19.6 - 4)

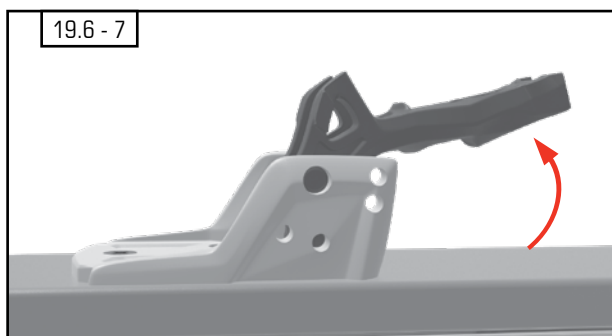
19.6 INSTALLATION OF MARKER F5 JR TOUR



- Place the binding from the top on the centering screw and push it backwards. (19.6 - 5)



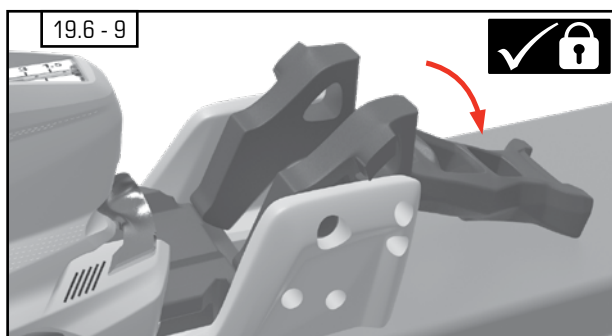
- Insert and tighten the 2 front screws. (19.6 - 6)



- Swivel the change-over lever upwards/forwards until it clicks into the first catch. (19.6 - 7)

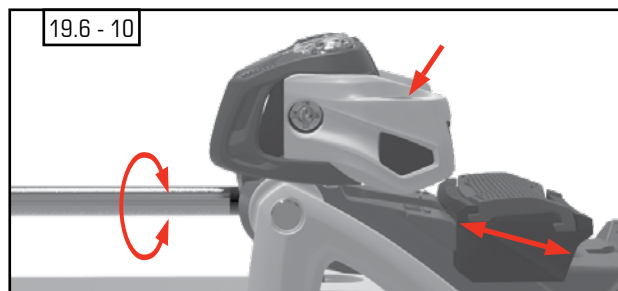


- and lower the binding afterwards (19.6 - 8).



- Swivel the lever back into the starting position, the lever must rest on the ski surface and the end of the plate must be held firmly in place (19.6 - 9).

19.6 INSTALLATION OF MARKER F5 JR TOUR

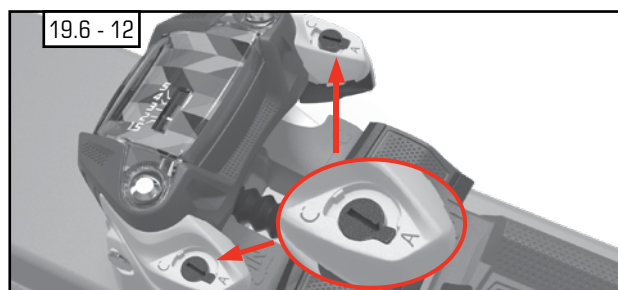


HEIGHT ADJUSTMENT GLIDING PLATE AND TOE SOLEHOLDERS:

- By adjusting the height adjustment screws, the height of the gliding plate and the toe sole holders must be adapted to the respective boot.
- The height adjustment screw of the gliding plate is located at the front of the binding, the height adjustment screws of the sole holders are on the top of the sole holders. (19.6 - 10)



- Determination of the sole type (19.6 - 11).

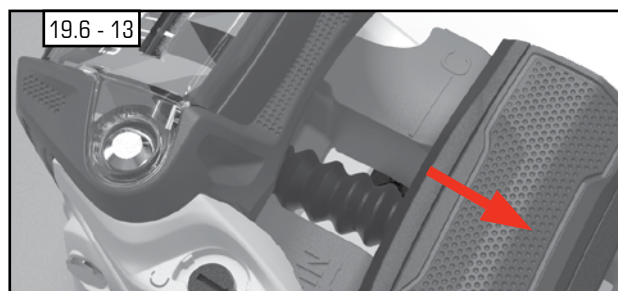


HEIGHT ADJUSTMENT FOR BOOTS TYPE A (adults)

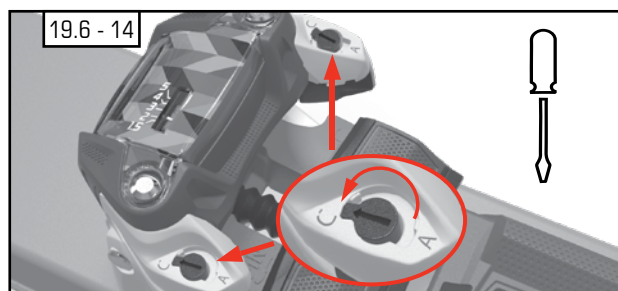
(delivery setting)

Alpine ski boots for adults according to ISO 5355 (type A) and Alpine ski boots for adults according to ISO 23223 (type A) with the additional marking "GripWalk®" (also for touring ski boots according to ISO 9523)

- The indicators of the height adjustment screws of both sole holders must point to setting "A". (19.6 - 12)



- The gliding AFD has to be adjusted to the rear/lower position. (19.6 - 13)



HEIGHT ADJUSTMENT FOR BOOTS TYPE C (children)

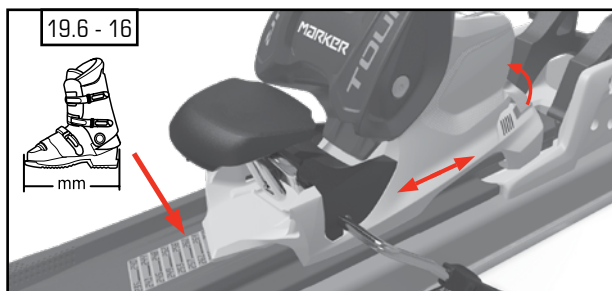
Alpine ski boots for children according to ISO 5355 (type C) and Alpine ski boots for adults according to ISO 23223 (type C) with the additional marking "GripWalk®"

- The indicators of the height adjustment screws of both sole holders must point to setting "C". (19.6 - 14)

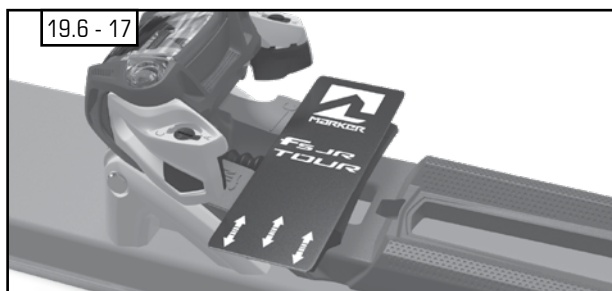


- The gliding AFD has to be adjusted to the front/upper position. (19.6 - 15)

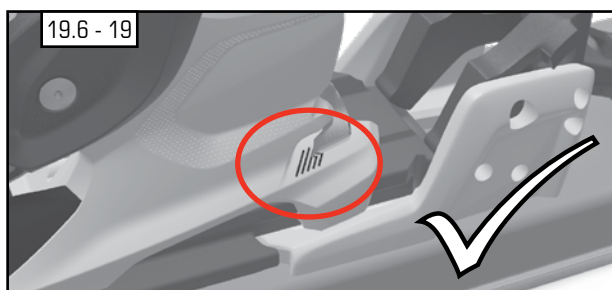
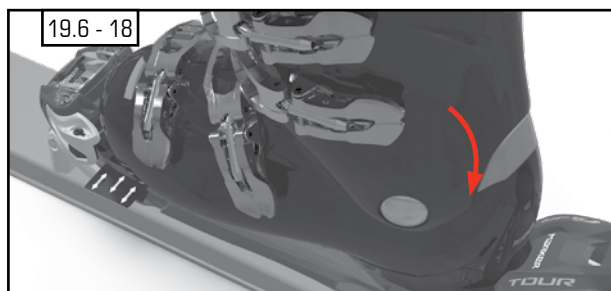
19.6 INSTALLATION OF MARKER F5 JR TOUR



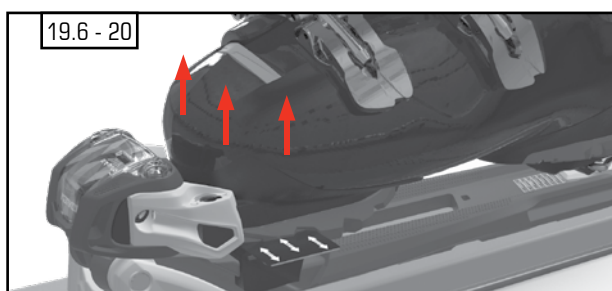
- Lift the heel locking lever and move the heel until the determined sole length corresponds to the length indicated on the length scale on the plate. (19.6 - 16) Close the locking lever.



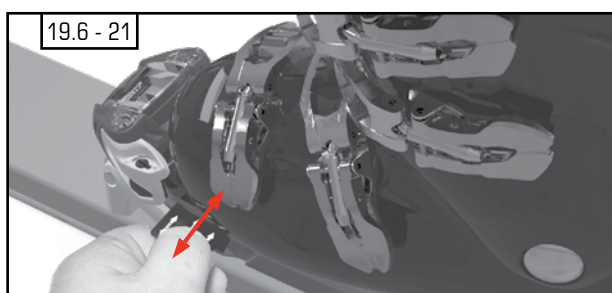
- Place the height test strip on the gliding AFD with the printed side up, place the ski boot into the binding and close it. (19.6 - 17 and 19.6 - 18)



- 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. (19.6 - 19)
If the forward pressure is incorrect: remove the ski boot, lift the lever and move the heel until the forward pressure is correct.

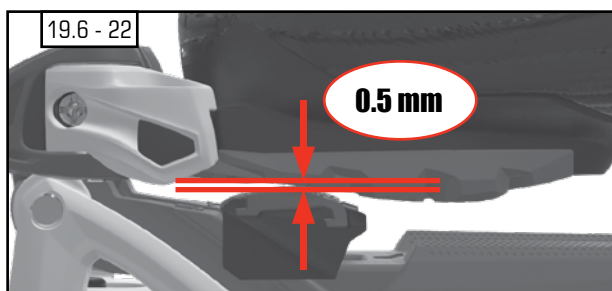


- To check the height adjustment pull the boot upwards. (19.6 - 20)



- Adjust the height of the gliding AFD by turning the adjustment screw so that the test strip is movable with slight resistance. (19.6 - 21)

- The gap between the boot sole and gliding AFD must be 0,5 mm. (19.6 - 22)



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



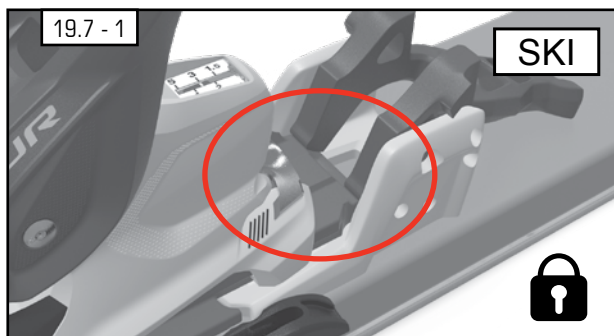
CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 15.3

**IMPORTANT !**

See INFORMATION FOR THE SKIER

→ 15.4

19.7 INFORMATION FOR THE SKIER - F5 JR TOUR



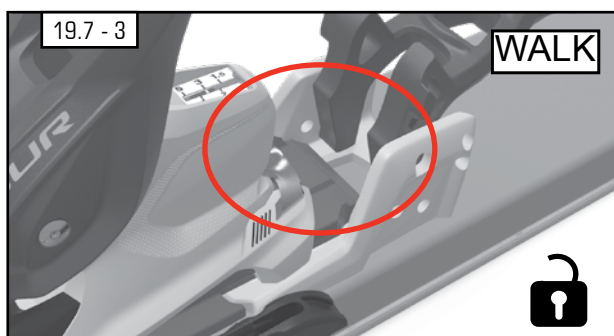
INFORMATION FOR THE SKIER - F5 JR TOUR

In addition to the system explanations → 15.1 - 15.4, the following instructions must be given to the intended user of a F5 JR TOUR binding

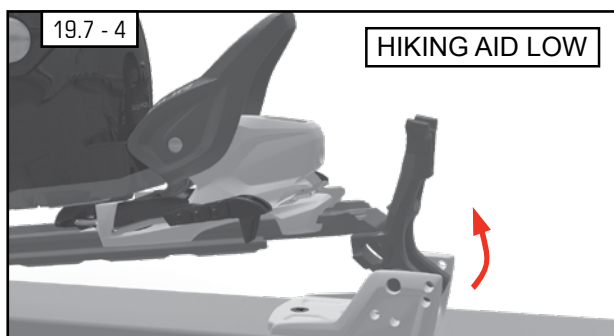


CHANGE - OVER FROM SKIING TO HIKING POSITION:

A change-over lever is arranged in the heel plate of the binding. This is used to set 2 different positions (descent/ascent).

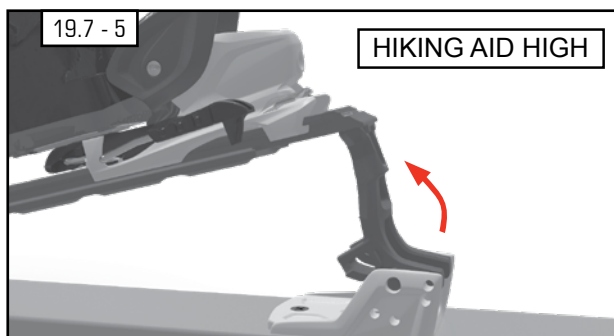


In order to change over from descent (19.7 - 1) to ascent mode (19.7 - 3) and be able to walk with the binding, swivel the lever upwards/ forwards (19.7 - 2) with your hand or ski pole until it clicks into the first catch.



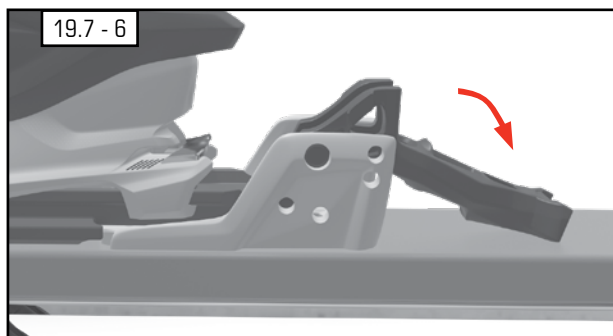
USING THE HIKING AID:

In hiking mode, the hiking aid can be set to two positions.



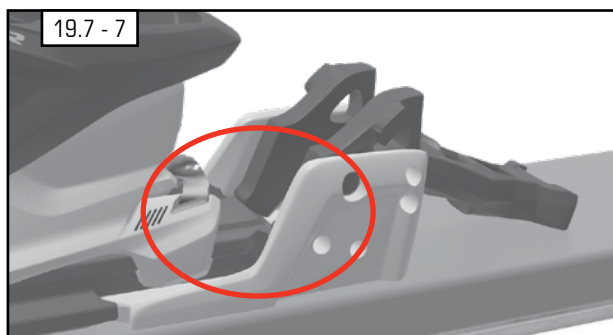
Move the change-over lever further forward/upward with your hand or ski pole until it clicks into the second or third catch. (19.7 - 4 and 19.7 - 5)

19.7 INFORMATION FOR THE SKIER - F5 JR TOUR

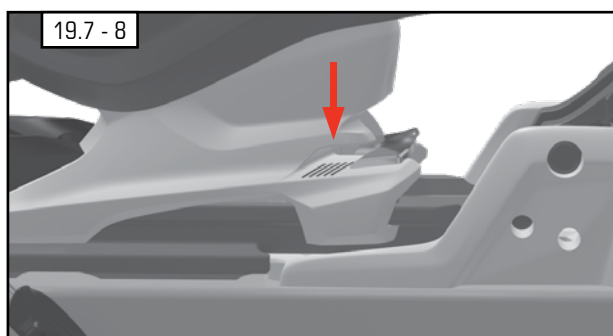


CHANGE - OVER FROM HIKING TO SKIING POSITION:

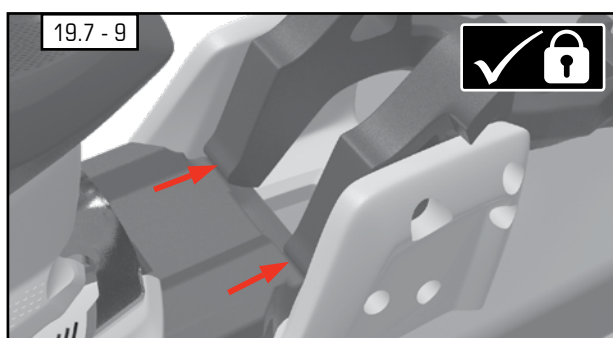
To switch from ascent to descent mode in order to ski with the binding, swivel the lever back into the starting position. (19.7 - 6)



the lever must rest on the ski surface and the end of the plate must be held firmly in place. (19.7 - 7)

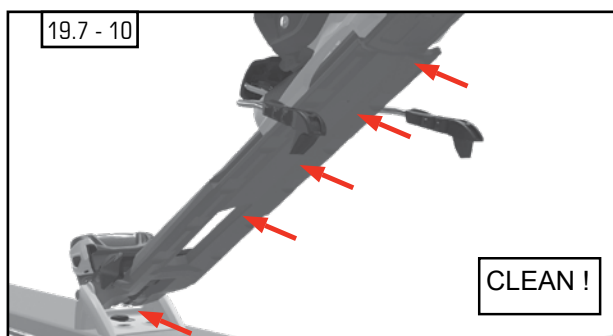


When switching from ascent to descent mode, the binding heel holder must be pushed onto the ski so that the ski plate is held firmly in place (19.7 - 8).



CAUTION !

For skiing purposes, the binding may only be used in skiing mode! (19.7 - 9)



NOTE:

Changing over from hiking to skiing mode, the binding must be freed from snow, ice and dirt ! (19.7 - 10)

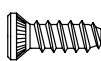
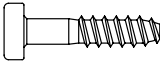
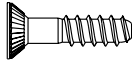
20.1 SCREW CHART

MARKER					
COMP 30 & 20 NG COMP 16 / 16 GW COMP 12 / 12 GW COMP 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)
COMP 10 COMP 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 13 DUKE PT 11		 S180105 (5.5 x 16.0)	 S180150 (5.5 x 22.0)	 S180060 (5.5 x 14.0)	
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)	
F 5 JR TOUR	toe center screw S460257	 S180107 (5.5 x 10.5)		 S180107 (5.5 x 10.5)	
JESTER 18 PRO JESTER 16 GRIFFON 13 SQUIRE 11		 S180164 (5.5 x 11.3)	 S180060 (5.5 x 14.0)	 S180204 (6.0 x 12.0)	
SQUIRE 12 TCX		 S180164 (5.5 x 11.3)	 S180060 (5.5 x 14.0)	 S180060 (5.5 x 14.0)	
SQUIRE 10		 S180164 (5.5 x 11.3)	 S180060 (5.5 x 14.0)	 S180241 (5.5 x 19.25)	 S180142 (5.5 x 23.5)
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)	 S180248	 S180162	 S180231 (5.5 x 29.0)	 S180205 (5.5 x 18.5)
CRUISE 12 CRUISE 10		 S180176 (5.5 x 15.0)	 S180176 (5.5 x 15.0)	 S180062 (5.5 x 12.5)	 S180062 (5.5 x 12.5)

20.1 SCREW CHART

CRUISE 10 DEMO		 S180248	 S180162	 S180062 (5.5 x 12.5)	 S180062 (5.5 x 12.5)
MARKER ALPINIST 8, 10, 12 ALPINIST FREE		 S180176 (5.5 x 15.0)	 S180176 (5.5 x 15.0)	 S180074 (5.5 x 17.5)	 S180074 (5.5 x 17.5)
MARKER ALPINIST DEMO		 S180248	 S180162	 S180103 (5.5 x 25.3)	 S180103 (5.5 x 25.3)
MARKER ALPINIST JR LONG TRAVEL		 S180250 (5.5 x 13.5)	 S180250 (5.5 x 13.5)	 S180105 (5.5 x 16.0)	 S180105 (5.5 x 16.0)
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)
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)
GRIFTON TCX D SQUIRE TCX D SQUIRE 10 D (FDT FREE PLATE)		 S180061 (5.5 x 13.5)		 S180061 (5.5 x 13.5)	
GRIFTON D 24 / 25 (FDT FREE HIGH PER- FORMANCE PLATE)		 S180061 (5.5 x 13.5)		 S180105 (5.5 x 16.0)	
FDT 7.0 & 4.5 (FDT JUNIOR PLATE)		 S180107 (5.5 x 10.5)		 S180107 (5.5 x 10.5)	
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)
MARKER / VÖKL					
WIDERIDE XL TCX DEMO	 S180208			 S180150 (5.5 x 22.0)	

20.1 SCREW CHART

					
LOWRIDE FR RMOTION3 VMOTION				 S180062 (5.5 x 12.5)	
MARKER / K 2					
XCOMP 16 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)
QUICKLIK MODELS				 S180062 (5.5 x 12.5)	
M2 & ERP			 S180176 (5.5 x 15.0)	 S180062 (5.5 x 12.5)	
MARKER / NORDICA					
XCELL FDT TPX FDT TP2 LIGHT FDT TP2 COMPACT FDT TLT FDT				 S180062 (5.5 x 12.5)	
TLT COMPACT			 S180176 (5.5 x 15.0)	 S180062 (5.5 x 12.5)	
TP2 COMPACT EVO		 S180150 (5.5 x 22.0)		 S180062 (5.5 x 12.5)	 S180062 (5.5 x 12.5)
MARKER / BLIZZARD					
XCELL DEMO TCX / TP LIGHT DEMO TPX / TP DEMO TLT DEMO				 S180062 (5.5 x 12.5)	

20.1 SCREW CHART

					
MARKER / MOVEMENT					
MARKER / MOVEMENT FDT TPX				 S180062 (5.5 x 12.5)	
STANDARD BRAKE				 S180062 (5.5 x 12.5)	
BRAKE COMPETITION & COMP NG COMP & XCOMP				 S180046 (5.5 x 8.75)	
BRAKE 12.0 TPX & 11.0 TP				 S180255 (5.5 x 11.0)	
BRAKE FDT JUNIOR				 S180219 (5.5 x 10.8)	

20.2 BRAKE CHART

	70 mm	80 mm	85 mm	90 mm 95 mm (*)	100 mm 105 mm (*)	110 mm 115 mm (*)	120 mm 125 mm (*)
Collection Marker							
Comp 30 nG			W003N1B				
Comp 20 nG			W003N1B				
Comp 16			W00601B	W042Y1B			
Comp 12			W00601B	W042Y1B			
Comp 10 TCX			W00601B	W042Y1B			
Comp 10			W023H1B	W009F1B			
Comp Junior 8			W023H1B	W009F1B			
Duke PT 16					W028U1B		W029U1B *
Duke PT 13					W028U1B		W029U1B *
Duke PT 11					W028U1B		W029U1B *
Jester 18 Pro			W018M1B	W017G1B	W027T1B	W016G1B	W02601B
Jester 16			W018M1B	W017G1B	W027T1B	W016G1B	W02601B
Griffon 13			W018M1B	W017G1B	W027T1B	W016G1B	W02601B
Squire 11			W018M1B	W017G1B	W027T1B	W016G1B	
Squire 10		W020G1B	W021K1B		W004L1B		
F12 Tour EPF			W018M1B	W017G1B	W027T1B	W016G1B	W02601B
F10 Tour			W018M1B	W017G1B	W027T1B	W016G1B	
F5 Junior Tour				W043Y1B			
Kingpin 13 & 10					W010S1B		W011S1B *
Kingpin 13 & 10 Demo					W010S1B		W011S1B *
Kingpin MWorks					W010S1B		W011S1B *
Cruise 12				W036X1B	W037X1B *		
Cruise 10				W036X1B	W037X1B *		
Cruise 10 Demo				W036X1B	W037X1B *		
Alpinist Free 13				W040Y1B	W038Y1B *	W039Y1B*	
Alpinist Free 11				W040Y1B	W038Y1B *	W039Y1B*	
Alpinist 12				W031W1B	W032W1B *	W033W1B *	
Alpinist 10				W031W1B	W032W1B *	W033W1B *	
Alpinist 8				W031W1B	W032W1B *	W033W1B *	
Alpinist Jr long travel				W034W1B			
Alpinist 10 Demo				W034W1B	W035W1B *		
Alpinist 8 Demo				W034W1B			
Comp 16 GW			W00601B	W042Y1B			
Comp 12 GW			W00601B	W042Y1B			
10.0 TP		W020G1B	W021K1B		W004L1B		
Free 7				W030U1B *			
7.0 & 4.5	W007R1B		W009R1B				
FDT TPX 12				W017G1B	W027T1B	W016G1B	
FDT TP 10		W022N1B	W024K1B	W017G1B			
FDT 7.0 & FDT 4.5	W007R1B		W009R1B				

W..... Brake pre-assembled at the factory

W..... Brake available as accessory



20.2 BRAKE CHART

	70 mm	80 mm	85 mm	90 mm 95 mm (*)	100 mm 105 mm (*)	110 mm 115 mm (*)	120 mm 125 mm (*)
7.0 RTL & 4.5 RTL	W014S1B						
Griffon 13 D			W018M1B	W017G1B	W027T1B	W016G1B	W026O1B
Griffon 13 TCX D			W018M1B	W017G1B	W027T1B	W016G1B	W026O1B
Squire 11 TCX D			W018M1B	W017G1B	W027T1B	W016G1B	
The bindings of our partner companies are tailored to the respective skis, therefore alternative widths are not listed							
Collection Marker / Völkl							
Lowride FR				W044Y1B			
Lowride TCX				W044Y1B			
Wideride TCX				W017G1B			
RMotion 3			W018M1B				
VMotion 12.0 TCX				W017G1B			
VMotion 11.0 TCX				W017G1B			
VMotion 11		W022N1B		W017G1B			
VMotion 10		W022N1B		W017G1B			
VMotion 9		W022N1B					
7.0 & 4.5 VMotion Junior	W007R1B		W009R1B				
Collection Marker / Nordica							
XCell 14 FDT				W017G1B			
XCell 12 FDT				W017G1B			
TPX 12 FDT				W017G1B			
TP2 light 11 FDT				W017G1B			
TP2 Compact 10 FDT		W022N1B					
TLT 10 Compact		W022N1B					
FDT 7.0 & FDT 4.5	W007R1B		W009R1B				
Collection Marker / Blizzard							
XCell 14 Demo				W017G1B			
XCell 12 Demo				W017G1B			
TPX 12 Demo			W018M1B				
TCX 11 Demo				W017G1B	W027T1B		
TP 11 light Demo			W018M1B				
TPC 11 Demo			W024K1B				
TPC 10 Demo			W024K1B				
TLT 10 Demo		W022N1B					
TLT 10 Demo W (white)		W025O1B					
Collection Marker / K2							
XComp 16 GW			W006O1B				
MXCELL 12 TCx Quikclik				W017G1B			
MXC 12 TCx light Quikclik				W017G1B			
ERC 11 TCx light Quikclik				W017G1B			
M3 11 Compact Quikclik		W022N1B					
M3 10 Compact Quikclik		W022N1B					

20.2 BRAKE CHART

	70 mm	80 mm	85 mm	90 mm 95 mm (*)	100 mm 105 mm (*)	110 mm 115 mm (*)	120 mm 125 mm (*)
ER3 10 Compact Quikclik		W022N1B					
M2 10 Quikclik		W022N1B			W045Y1B		
ERP 10 Quikclik		W022N1B					
M2 10 & ERP 10		W022N1B					
Squire 10 Quikclik			W024K1B		W045Y1B		
Collection Marker / Movement							
FDT TPX 12				W017G1B			

20.3 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS 24 / 25

		Alpine Adult 5355 Type "A"	Touring Adult 9523	GripWalk Adult 23223 Type "A"	Alpine Children 5355 Type "C"	GripWalk Children 23223 Type "C"
Collection Marker						
Comp 30 nG	A	✓				
Comp 20 nG	A	✓				
Comp 16	A	✓				
Comp 12	A	✓				
Comp 10 TCX	A	✓				
Comp 10	A	✓				
Comp Junior 8	C				✓	
Duke PT 16	MN A	✓	✓	✓		
Duke PT 13	MN A	✓	✓	✓		
Duke PT 11	MN A	✓	✓	✓		
Jester 18 Pro	MN A	✓	✓	✓		
Jester 16	MN A	✓	✓	✓		
Griffon 13	MN A	✓	✓	✓		
Squire 12 TCX	GRIP WALK A	✓		✓		
Squire 11	GRIP WALK A	✓		✓		
Squire 10	GRIP WALK A	✓		✓		
F12 Tour EPF	MN A	✓	✓	✓		
F10 Tour	MN A	✓	✓	✓		
F5 Junior Tour	MN CA	✓	✓	✓	✓	✓
Comp 16 GW	GRIP WALK A	✓		✓		
Comp 12 GW	GRIP WALK A	✓		✓		
10.0 TP	GRIP WALK A	✓		✓		
Free 7	GRIP WALK CA	✓		✓	✓	✓
7.0 & 4.5	GRIP WALK CA	✓		✓	✓	✓
FDT TPX 12	GRIP WALK A	✓		✓		
FDT TP 10	GRIP WALK A	✓		✓		
FDT 7.0 & FDT 4.5	GRIP WALK CA	✓		✓	✓	✓
7.0 RTL & 4.5 RTL	GRIP WALK CA	✓		✓	✓	✓
Griffon 13 D	GRIP WALK A	✓		✓		
Griffon 13 TCX D	GRIP WALK A	✓		✓		
Squire 11 TCX D	GRIP WALK A	✓		✓		
Squire 10 D	GRIP WALK A	✓		✓		
Collection Marker / Völkl						
Lowride FR	GRIP WALK A	✓		✓		
Lowride TCX	GRIP WALK A	✓		✓		
Wideride TCX	GRIP WALK A	✓		✓		
RMotion 3	GRIP WALK A	✓		✓		
VMotion 12.0 TCX	GRIP WALK A	✓		✓		
VMotion 11.0 TCX	GRIP WALK A	✓		✓		
VMotion 11	GRIP WALK A	✓		✓		

20.3 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS 24 / 25

		Alpine Adult 5355 Type "A"	Touring Adult 9523	GripWalk Adult 23223 Type "A"	Alpine Children 5355 Type "C"	GripWalk Children 23223 Type "C"
VMotion 10	 A	✓		✓		
7.0 & 4.5 VMotion Junior	 CA	✓		✓	✓	✓
Collection Marker / Nordica						
XCell 14 FDT	 A	✓		✓		
XCell 12 FDT	 A	✓		✓		
TPX 12 FDT	 A	✓		✓		
TP2 light 11 FDT	 A	✓		✓		
TP2 Compact 10 FDT	 A	✓		✓		
TLT 10 Compact	 A	✓		✓		
Collection Marker / Blizzard						
XCell 14 Demo	 A	✓		✓		
XCell 12 Demo	 A	✓		✓		
TPX 12 Demo	 A	✓		✓		
TCX 11 Demo	 A	✓		✓		
TP 11 light Demo	 A	✓		✓		
TPC 11 Demo	 A	✓		✓		
TPC 10 Demo	 A	✓		✓		
TLT 10 Demo	 A	✓		✓		
TLT 10 Demo W (white)	 A	✓		✓		
Collection Marker / K2						
XComp 16 GW	 A	✓		✓		
MXCELL 12 TCx Quikclik	 A	✓		✓		
MXC 12 TCx light Quikclik	 A	✓		✓		
ERC 11 TCx light Quikclik	 A	✓		✓		
M3 11 Compact Quikclik	 A	✓		✓		
M3 10 Compact Quikclik	 A	✓		✓		
ER3 10 Compact Quikclik	 A	✓		✓		
M2 10 Quikclik	 A	✓		✓		
ERP 10 Quikclik	 A	✓		✓		
M2 10 & ERP 10	 A	✓		✓		
Squire 10 Quikclik	 A	✓		✓		
Collection Marker / Movement						
FDT TPX 12	 A	✓		✓		

20.4 INSTALLATION TOOLS - MARKER BINDING MODELS 24 / 25

MARKER BINDING MODELS			INSTALLATION TOOL		
Comp 30 nG	15.0 - 30.0	240 - 360 mm	W001G1T		
Comp 20 nG	11.0 - 20.0	240 - 360 mm	W001G1T		
Comp 16	6.0 - 16.0	240 - 360 mm	W001G1T		
Comp 12	4.0 - 12.0	240 - 360 mm	W001G1T		
Comp 10 TCX	3.0 - 10.0	240 - 360 mm	W001G1T		
Comp 10	3.0 - 10.0	240 - 360 mm	W001G1T		
Comp Junior 8	2.0 - 8.0	240 - 360 mm	W001G1T		
Duke PT 16	6.0 - 16.0	240 - 380 mm	W014U1T		
Duke PT 13	4.0 - 13.0	240 - 380 mm	W014U1T		
Duke PT 11	3.0 - 11.0	240 - 380 mm	W014U1T		
Jester 18 Pro	8.0 - 18.0	240 - 370 mm	W001G1T	W012J1T	
Jester 16	6.0 - 16.0	240 - 370 mm	W001G1T	W012J1T	
Griffon 13	4.0 - 13.0	240 - 370 mm	W001G1T	W012J1T	
Squire 12 TCX	3.0 - 11.0	240 - 370 mm	W001G1T	W012J1T	
Squire 11	3.0 - 11.0	240 - 370 mm	W001G1T	W012J1T	
Squire 10	3.0 - 10.0	240 - 360 mm	W001G1T	W012J1T	
F12 TOUR EPF; S 265 - 325	4.0 - 12.0	265 - 325 mm	W006M1T		
F12 TOUR EPF; L 305 - 365;	4.0 - 12.0	305 - 365 mm	W006M1T		
F10 TOUR; S 265 - 325	3.0 - 10.0	265 - 325 mm	W010G1T	W011J1T	
F10 TOUR; L 305 - 365	3.0 - 10.0	305 - 365 mm	W010G1T	W011J1T	
F5 JR Tour	1.5 - 5.0	235 - 300 mm	W018X1T		
KINGPIN 10	5.0 - 10.0	255 - 390 mm	W020X1T	W008T1T	
KINGPIN 13	6.0 - 13.0	255 - 390 mm	W020X1T	W008T1T	
KINGPIN 10 Demo	5.0 - 10.0	260 - 356 mm	W015V1T		
KINGPIN 13 Demo	6.0 - 13.0	260 - 356 mm	W015V1T		
KINGPIN MWorks 12	5.0 - 12.0	255 - 390 mm	W020X1T	W008T1T	
CRUISE 12	6.0 - 12.0	243 - 387 mm	W020X1T		
CRUISE 10	4.0 - 10.0	243 - 387 mm	W020X1T		
CRUISE 10 Demo	4.0 - 10.0	255 - 353 mm	W015V1T		
MARKER ALPINIST Free 13	6.0 - 13.0	243 - 387 mm	W020X1T	W008T1T	
MARKER ALPINIST Free 11	6.0 - 13.0	243 - 387 mm	W020X1T	W008T1T	
MARKER ALPINIST 12	6.0 - 12.0	243 - 367 mm	W020X1T	W008T1T	
MARKER ALPINIST 10	6.0 - 12.0	243 - 367 mm	W020X1T	W008T1T	

20.4 INSTALLATION TOOLS - MARKER BINDING MODELS 24 / 25

MARKER BINDING MODELS			INSTALLATION TOOL		
MARKER ALPINIST 8	3.0 - 8.0	243 - 367 mm	W020X1T	W008T1T	
MARKER ALPINIST DEMO 10	4.0 - 10.0	253 - 359 mm	W015V1T		
MARKER ALPINIST DEMO 8	4.0 - 10.0	253 - 359 mm	W015V1T		
Comp 16 GW black	6.0 - 16.0	240 - 360 mm	W001G1T		
Comp 12 GW black	4.0 - 12.0	240 - 360 mm	W001G1T		
Free 7	2.0 - 7.0	190 - 310 mm	W007H1T		
10.0 TP	3.0 - 10.0	240 - 360 mm	W001G1T	W012J1T	
7.0	2.0 - 7.0	190 - 310 mm	W007H1T		
4.5	0.75 - 4.5	190 - 310 mm	W007H1T		
FDT TPX 12	4.0 - 12.0	260 - 388 mm	W017V1T	W009P1T	W004Q1T
FDT TP 10	3.0 - 10.0	260 - 388 mm	W017V1T	W009P1T	W004Q1T
FDT 7.0; L 235 - 330	2.0 - 7.0	235 - 330 mm	W017V1T	W003H1T	
FDT 4.5; S 190 - 285	0.75 - 4.5	190 - 285 mm	W017V1T	W003H1T	
7.0 RTL	2.0 - 7.0	240 - 304 mm	W007H1T		
4.5 RTL	0.75 - 4.5	200 - 264 mm	W007H1T		
Griffon 13 D	4.0 - 13.0	260 - 388 mm	W017V1T	W009P1T	W004Q1T
Griffon 13 TCX D	4.0 - 13.0	260 - 388 mm	W017V1T	W009P1T	W004Q1T
Squire 11 TCX D	3.0 - 11.0	260 - 388 mm	W017V1T	W009P1T	W004Q1T
Squire 10 D	3.0 - 11.0	260 - 388 mm	W017V1T	W009P1T	W004Q1T
FDT Q6 plate	ohne	260 - 388 mm	W017V1T	W009P1T	W004Q1T
FDT High Performance plate	ohne	260 - 388 mm	W017V1T	W009P1T	W004Q1T
ALU PRO plate	ohne	260 - 340 mm	W005S1T		
World Cup PC Interface 10 mm	ohne	260 - 362 mm	W016V1T	W002O1T	
World Cup PC Interface 14 mm	ohne	260 - 362 mm	W016V1T	W002O1T	
FDT Q6 Junior plate small	ohne	190 - 285 mm	W017V1T	W003H1T	
FDT Q6 Junior plate large	ohne	235 - 330 mm	W017V1T	W003H1T	



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.

Skier Type: (Check One)

Height: _____ ft. _____ in.

☐ ☒ ☐ ☐ ☐

Age: _____

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:	Model	Charges
Brand		
Serial No.	Length: _____ cm	\$ _____
Boots:	Model	
Brand		
Boot Sole Length:	_____ mm	\$ _____
Bindings:	Model	\$ _____
Brand		
Other:	Model	\$ _____
Brand		
Equipment Total:		\$ _____
Work Requested:		\$ _____
		\$ _____
Labor Total:		\$ _____
Estimate: _____	Equipment Total	
	Labor Total	
	Subtotal	
	Tax	
Deposit: _____	TOTAL	\$ _____

Special Instructions: _____

System Inspection Record:

Boot Sole Length: _____ mm

Skier Code ☐

Boot Sole Type: (check one)

☐ Alpine (ISO 5355)
☐ GripWalk/Improved Walking Sole (ISO 23223)
☐ Prior to 2022
☐ GripWalk (ISO 9523)

☐ Alpine Touring (ISO 9523)
☐ Boot Sole Type and Binding are Compatible
☐ Utilizes Pin/Tec Inserts for Skiing and Climbing
☐ Utilizes Pin/Tec Inserts for "Climbing Only"

☐ Adult (A)
☐ Junior/Child (C)
☐ GripWalk Junior (Boot/Binding systems)
☐ Other

Test of Toes for Elastic Travel and Recentering

Test of Heels for Elastic Travel and Return

Forward Pressure Has Been Properly Set

Test of Toes for Twist Release

Test of Heels for Forward Lean Release

Initial Setting ☐

Final Settings

Left

Right

Toe

Heel

Comments: _____

Special Instructions to Skier: _____

Technician Signature: _____ Date: _____

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 winter-sport 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: () _____ Address: Street: _____ Local Accommodations: _____ City: _____ State: _____ Zip: _____ Local Phone: () _____ E-mail Address: _____						
Your Weight: _____ lbs. Your Height: _____ ft. _____ in. Your Age: _____						No. of Rental Days Daily Rate \$ Other \$ Tax \$ Total Rental \$ Damage Waiver \$
Equipment Damage Waiver Accepted Initial _____ Declined Initial _____		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.				Payment Method (Circle One) Cash Check Credit Card Visa MasterCard Diners Club American Express Other: _____
Inventory No./Code		Skiing Skier Code: _____ Left Right Toe Heel Final Settings		Boot Sole Type (check one) ☐ Alpine (ISO 5355) ☐ Adult (A) ☐ GripWalk/Improved Walking Sole (ISO 23223) ☐ Junior/Child (C) Prior to 2022 ☐ GripWalk (ISO 9523) ☐ GripWalk Junior (Boot/Binding systems) ☐ Alpine Touring (ISO 9523) ☐ Other		Credit Card: Expiration Date: _____ No.: _____ cvv: _____ Deposit \$ Balance \$
Ski Size cm Boot Sole Length mm Binding Model 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

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 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

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

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

POST ACCIDENT GUIDE & PROCEDURES

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	Equipment Information
Name: _____ Accident Date: _____ Last Service Date: _____ Record # _____ Weight: _____ Height: _____ Age: _____ Sex: M F (circle one) Ski Type: I II III -I III+ (circle one) Injury: _____ Right or Left (circle one) Ski Area: _____ State: _____ Comments: _____	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)	Testing Information
Ski / Binding / Boot	Yes No NA	Yes No NA	Shop Name: _____
Ski Boot Sole Within Industry Standards:	☐ ☐ ☐	☐ ☐ ☐	Shop Location: _____
All Boot Parts Present, Working Correctly:	☐ ☐ ☐	☐ ☐ ☐	Telephone #: _____
AFD OK and Intact:	☐ ☐ ☐	☐ ☐ ☐	Technician: _____
Forward Pressure Correct:	☐ ☐ ☐	☐ ☐ ☐	Date: _____
Toe Height Correct:	☐ ☐ ☐	☐ ☐ ☐	Report Reviewed by: _____
Toe Wings Set Correctly:	☐ ☐ ☐	☐ ☐ ☐	Date: _____
Brake Fully Functional:	☐ ☐ ☐	☐ ☐ ☐	Testing Device: _____
Ski Damaged (Bent, Broken):	☐ ☐ ☐	☐ ☐ ☐	Brand: _____
System Passes Visual Inspection:	☐ ☐ ☐	☐ ☐ ☐	Model: _____
Clockwise Mechanical Test Results (twist): _____		_____	Testing Device Last Inspected and Calibrated
Counterclockwise Mechanical Test Results (twist): _____		_____	Date: _____
Forward Lean Mechanical Test Results _____		_____	By: _____
Visual Indicator Settings:	Toe: _____	_____	
	Heel: _____	_____	

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.

Alpine Touring Equipment Warning

Assumption of Risk, Liability Release, Indemnity and Hold Harmless Agreement and Agreement Not To Sue

Date:			
Name:			
Last	First	MI	
Address:			
Street:			
City:	State:	Zip:	Local Phone:
Your Weight:		lbs.	
Your Height:	ft.	in.	
Your Age:			
Skier Type:			
Check One :			
Your Boot:	Make/Model:	Size:	Sole Length (mm):
Skier Code (Circle One and Insert at Right)			
A B C D E F G H I J K L M N O P			
Your Ski:		Make/Model/Length:	Your Binding:
Skier Code:			
Technician Signature:		Date:	

ACKNOWLEDGMENT

I agree that the weight, height, age and skier type recorded on this form are correct. I understand that this information may be used to select or adjust my equipment, and that any incorrect information may increase my risk of injury. I agree to check all equipment before each use, and that this equipment will not be used if any parts are loose, worn, damaged or missing.

Signature of the Equipment User (If a minor, the signature of a parent, guardian or agent is required) Parent, Guardian or Agent: I verify that I am the parent, guardian or agent of the Equipment User and that I have authority to enter into this Agreement on behalf of the Equipment User and I agree to be bound by the terms and conditions of this Alpine Touring Equipment Warning, Assumption of Risk, Liability Release, Indemnity and Hold Harmless Agreement and Agreement Not To Sue		Date
Signature of Parent, Guardian or Agent		Date

**ALPINE TOURING EQUIPMENT WARNING, ASSUMPTION OF RISK, LIABILITY RELEASE,
INDEMNITY and HOLD HARMLESS AGREEMENT and AGREEMENT NOT TO SUE
PLEASE READ CAREFULLY BEFORE SIGNING**

1. I authorize this shop to perform such work that is necessary to properly mount and/or repair my skis, bindings and/or boots.
2. I agree not to use any of the equipment until I have received instruction in its use and have received satisfactory answers to any questions I may have regarding its use and function. If at any time I feel this equipment does not seem to be functioning properly, I will stop using it immediately and return it for inspection and possible repair or adjustment by a qualified technician. I acknowledge that the staff of this shop was available to more fully explain the risks and dangers of these activities and the capabilities and limitations of the equipment.
3. I accept and clearly understand and agree that there are inherent dangers and other risks involved in skiing and related activities for which this equipment is being used and that these activities are HAZARDOUS and that injuries, including knee injuries, are common and ordinary occurrences during these activities. I AGREE TO ASSUME ALL RISKS of death, paralysis or of any injury to any part of my body while using this equipment.
4. I further agree and understand that the ski-boot-binding system may reduce but does not eliminate the risk of injuries to my knees or any other parts of my body and 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 unwanted release or retention are inherent risks of skiing. For Snowboards, Skiboards and Nordic Equipment, I understand that these systems function differently from Alpine ski bindings in that snowboard, skiboard and Nordic bindings WILL NOT RELEASE in falls or accidents. I understand and agree that these systems DO NOT PROTECT against any type of injury and that injuries resulting from these circumstances are inherent risks of the sport.
5. I understand that the bindings have been set in accordance with the instructions provided by the manufacturer and that this shop has no further information or responsibility whatsoever regarding the determination of an appropriate setting or the circumstances under which the bindings will or will not release. I am voluntarily using this equipment with full knowledge of the inherent risks and dangers involved and I freely assume any and all risks of injury, paralysis or death that may result. I agree to use this equipment at my own risk. I further understand that this equipment has not been mechanically tested for release.
6. 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.
7. I accept the various equipment combinations provided to me "AS IS" and WITH NO WARRANTIES, express or otherwise, beyond those stated in this agreement and in the manufacturer's written limited warranty, if any.
8. To the fullest extent allowed by law, I hereby agree to forever RELEASE, INDEMNIFY and HOLD HARMLESS the ski shop, owners of all the equipment provided to me, as well as all equipment manufacturers and distributors and their affiliates, owners, agents, officers, directors and employees (collectively the "PROVIDERS") FROM ANY AND ALL RESPONSIBILITY OR LEGAL LIABILITY for damage, injury or death to myself or to any other person or property which may result while using 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, paralysis, damages or death relating to skiing or any related activities involving the use of this equipment. I further agree to WAIVE ANY RIGHT TO PRESENT ANY LEGAL CLAIM OR SUIT against the PROVIDERS, whether based upon negligence, breach of contract or warranty, strict products liability or any other legal theories and I accept full liability and responsibility for any and all such injuries or damages.
9. 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 LIABILITY which is binding upon and for the benefit of all parties, their heirs, agents and assigns, but is not intended to assert any claims or defenses which are prohibited by law. If any provision of this agreement is deemed invalid or unenforceable, all other provisions 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 ALPINE TOURING EQUIPMENT 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 (If a minor, the signature of a parent, guardian or agent is required)		Date
Parent, Guardian or Agent: I verify that I am the parent, guardian or agent of the Equipment User and that I have authority to enter into this Agreement on behalf of the Equipment User and I agree to be bound by the terms and conditions of this Alpine Touring Equipment Warning, Assumption of Risk, Liability Release, Indemnity and Hold Harmless Agreement and Agreement Not To Sue.		

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

2024/2025 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
			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"

