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FOREWORD

This Technical Manual is intended for the specialist dealer and was designed from the user's point of view. It is clearly structured and easy to apply. The user has usually one product out of the MARKER Collection (binding, accessories, etc.) in front of him which he wants to install:

- The description for the product is easy to locate.
- The user receives complete installation instructions for the specific MARKER product.
- Each important installation step is described with text and an accompanying graphic.
- Important movements, groupings and views are presented.
- The pictures are a combination of photorealistic and minimized graphic elements.

THIS LAYOUT RESULTS IN THE FOLLOWING ADVANTAGES:

- 1) The user can actually see his MARKER product with all it's characteristics rather than imagining it.
- 2) Each working step, which may be valid only for this specific product, is clearly marked.
- 3) Detailed views are reduced to the essential in order to eliminate redundant distractions.

REMARK:

MARKER, MARKER ALPINIST, DUKE, JESTER, GRIFFON, GRIPWALK, KINGPIN, MWERKS, PISTON, SQUIRE, XCELL, MOTION and CRUISE as well as the MARKER Logo and the GripWalk Logo are registered MARKER DALBELLO VÖLKL (International) GmbH trademarks and other marks are pending.

GENERAL INFORMATION

All rights on this Technical Manual are owned by MARKER. Reproduction and reprinting of this manual, in whole or in part are permitted only with approval of MARKER and if the source of the information is specified.

We reserve the right to make changes to the ski bindings and their accessories with respect to the information and illustrations contained in the manual. Technical status: 05 - 2025

MARKINGS AND SYMBOLS

Important passages are emphasized in the text and it is essential to take note of them as follows:



CAUTION !

Requires measures to be taken during the installation to protect the skier's safety.



IMPORTANT !

Emphasizes what has to be done or refrained from being done in order to avoid damaging the binding or valuable property during the installation process.

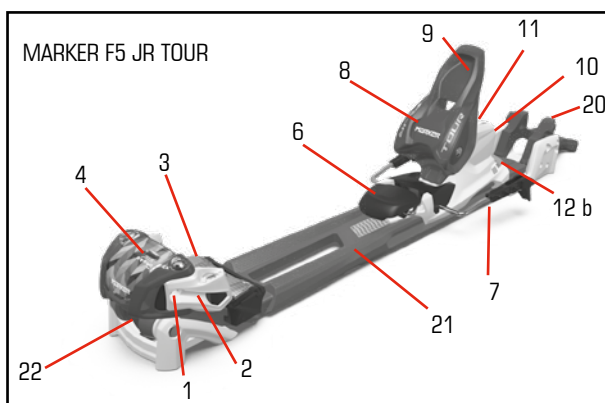
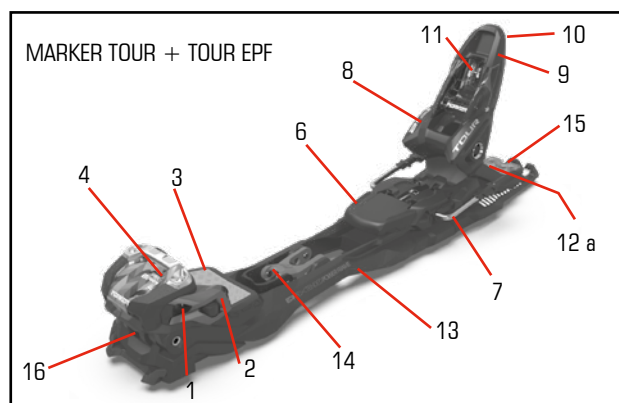
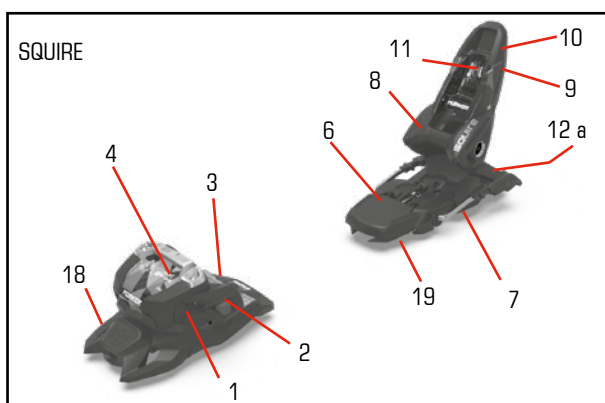
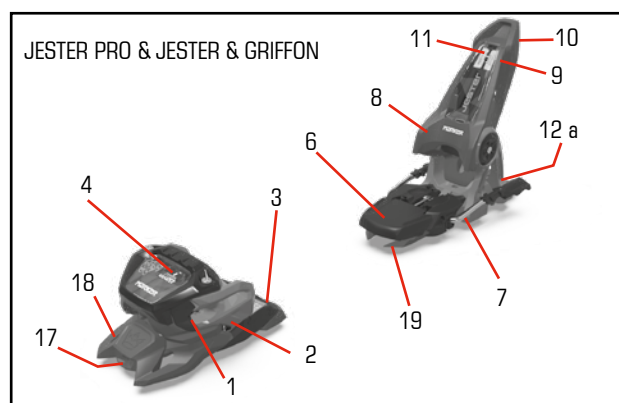
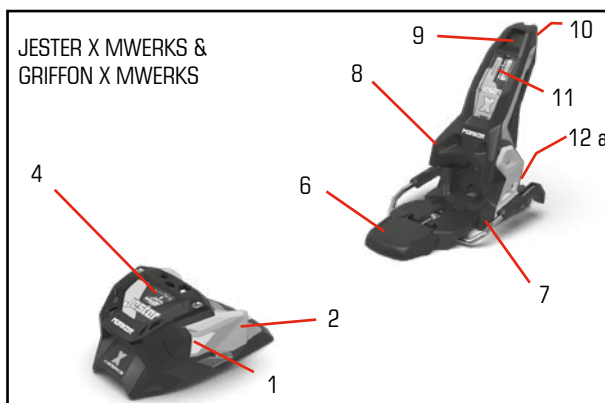
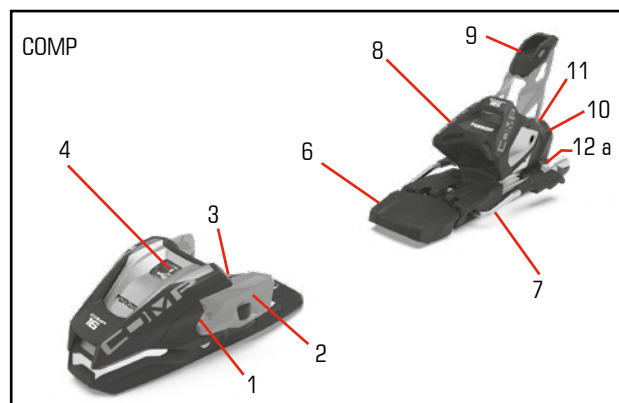
REMARK:

Recommends action and gives instruction for smooth and quick installation.

REFERENCES:

References to other chapters are marked with an arrow, e.g.: → 3.2

1.1 BINDING COMPONENT DESCRIPTION



TOE

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

MARKER TOUR + TOUR EPF

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

MARKER F5 JR TOUR

- 20 Change-over lever for ascent mode & hiking aid
- 21 Jr. Tour system plate
- 22 AFD adjustment screw

HEEL

- 6 Brake pedal
- 7 Brake arms
- 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

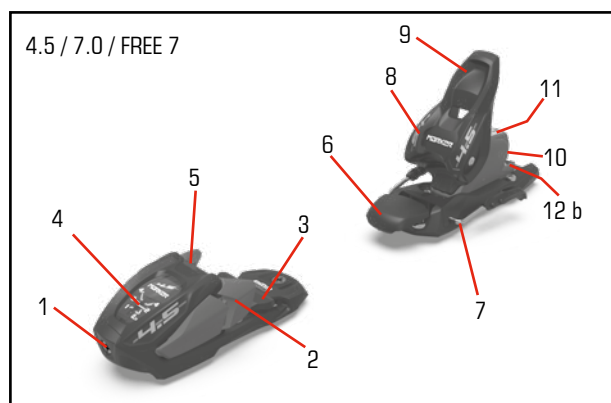
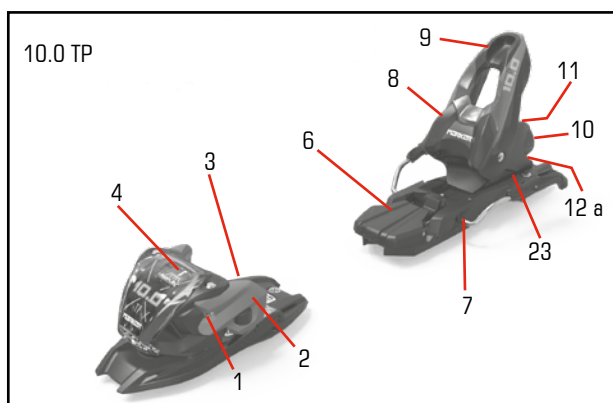
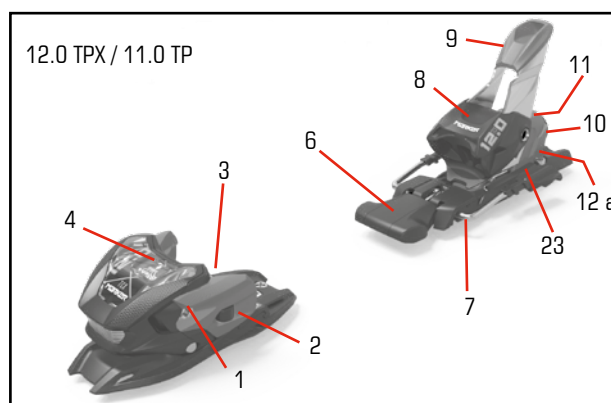
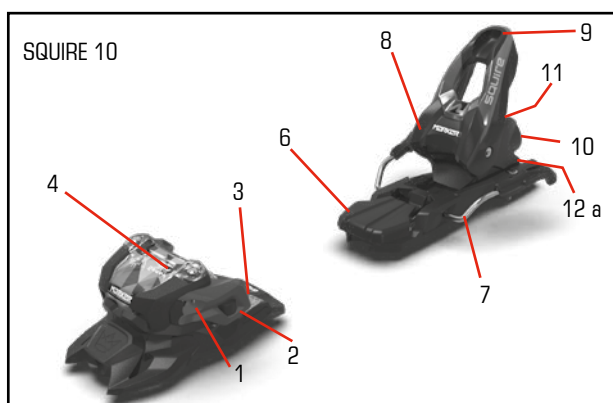
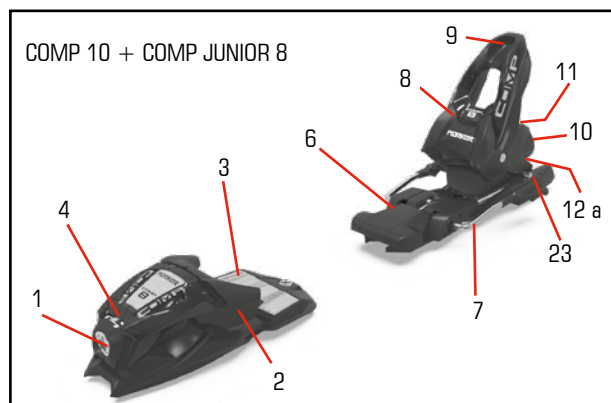
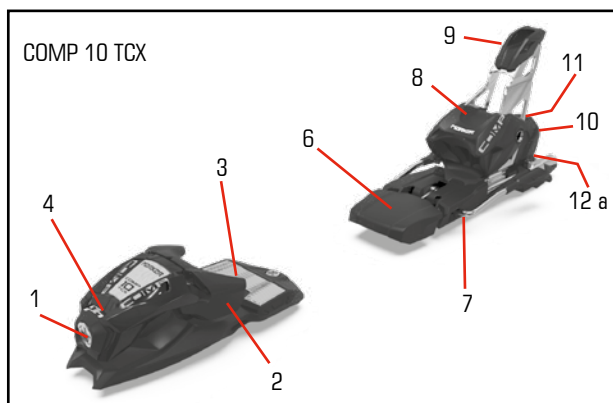
JESTER PRO & JESTER & GRIFFON

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

SQUIRE

- 18 Front plate
- 19 Heel plate

1.1 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 Brake arms
- 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

23 heel plate

KINGPIN & KINGPIN DEMO:

see → 4.1 on page 19

MARKER CRUISE & CRUISE DEMO:

see → 5.1 on page 35

MARKER ALPINIST, ALPINIST FREE, ALPINIST LONG TRAVEL & ALPINIST DEMO:

see → 6.1 on page 47

MARKER DUKE PT:

see → 7.1 on page 72

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.

2.1 BINDING INSPECTION:

GENERAL NOTE:

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

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

Most of the new MARKER bindings are in accordance with the requirement of the national and international norms (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 → **18.2 - 18.7**
BRAKE CHART → **21.2**

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

SCREW CHART → **21.1**

- Check scales for readability and adjustability.
- Remove dirt or corrosion with a moist rag or with compressed air. 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.

REMARK:

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

2.2 SKI INSPECTION:

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

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

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

The models Comp 10 and Comp 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.

2.3 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 DIN – ISO 9462 or DIN – ISO 13 992.

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

ISO 5355 boots are designed for use with a pair of classic skis and a standard alpine binding, not with a monoski, snowboard or skiboard.

ISO 9523 boots are designed for use with a pair of touring bindings, not with alpine bindings, monoski, snowboard or skiboard.

ISO 23223: In cooperation with well-known ski boot manufacturers MARKER presents a boot – binding system which provides increased comfort and better grip when walking, starting winter 16/17. The outsole sets are marked with the "GripWalk®" product label. Alpine ski boots fitted with these outsole sets correspond to standard ISO 23223. These boots are also manufactured for use with a classic pair of skis and alpine bindings and are not suitable for use on monoskis, snowboards or skiboards.

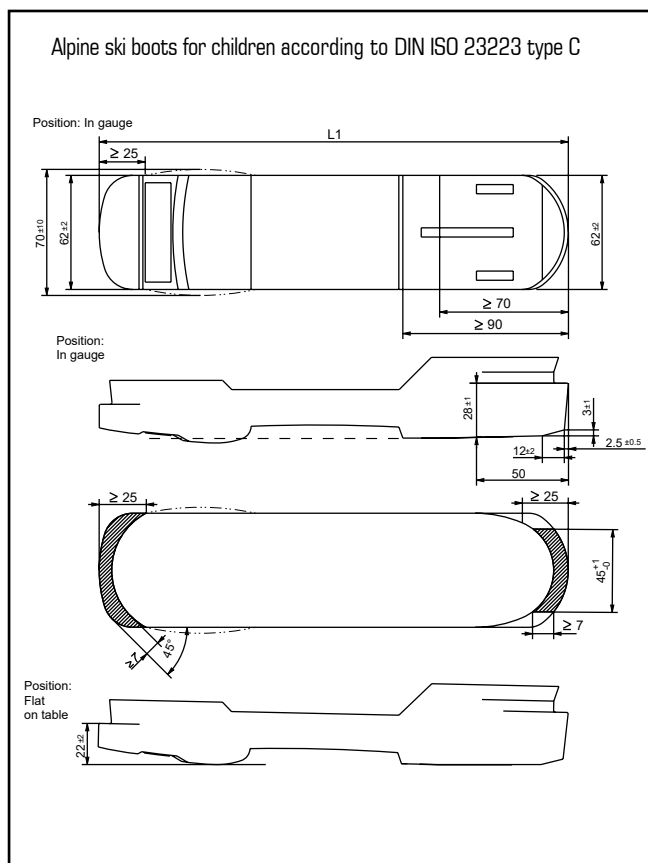
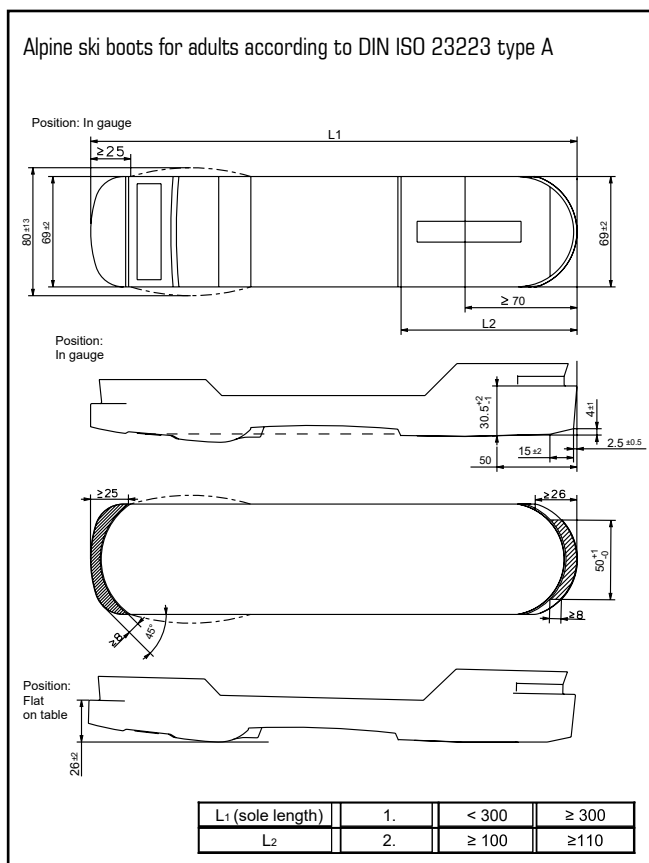
CHECK THE BOOTS FOR THE FOLLOWING:

- If the ski boot complies with the respective standard, it is marked with DIN – ISO. Only standard boots must be used.
- 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.



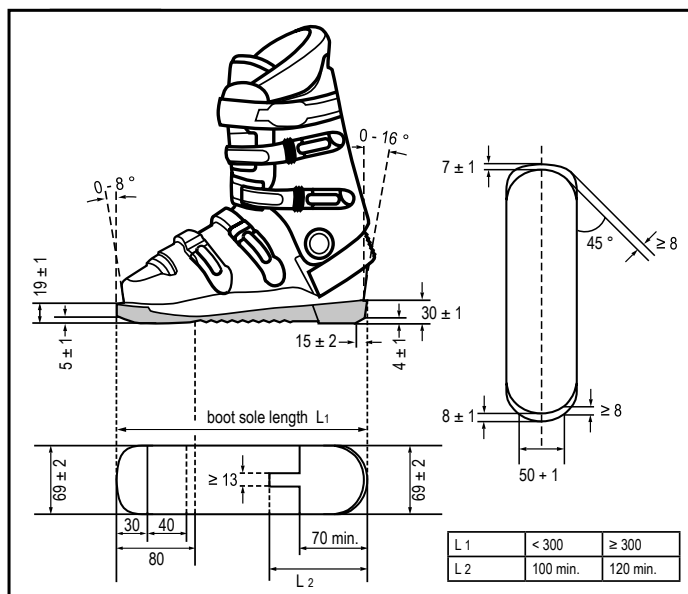
CAUTION !

Any modification of a boot that could effect the function between the boot and binding must be inspected to verify that the boot meets the appropriate Standard boot norm.

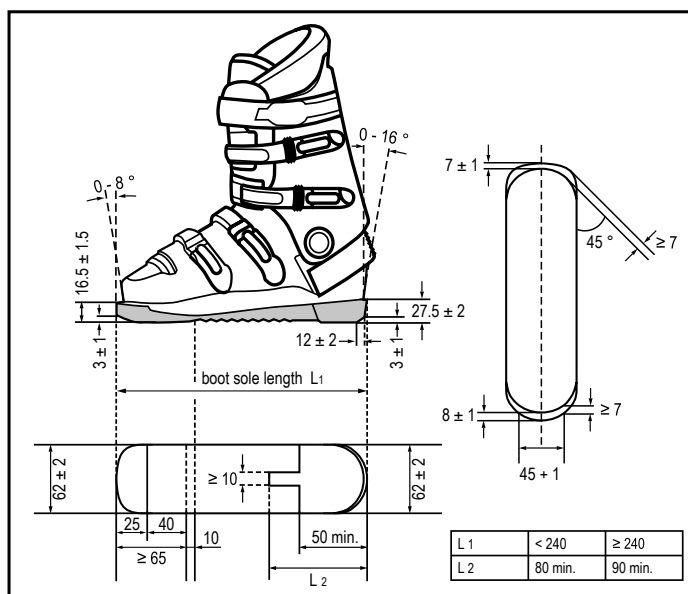


2.3 BOOT INSPECTION

Alpine ski boots for adults according to DIN ISO 5355 type A



Alpine ski boots for children according to DIN ISO 5355 type C

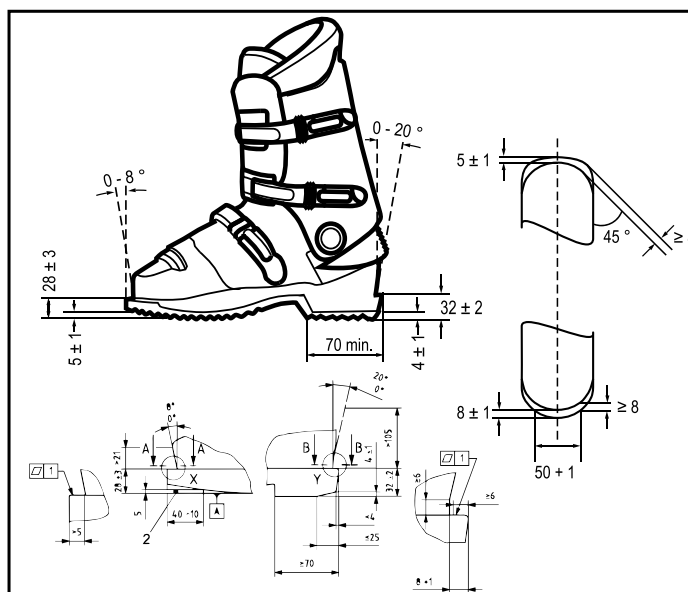


Alpine touring boot for adults according to DIN ISO 9523



CAUTION !

MARKER CRUISE, CRUISE Demo, KINGPIN, KINGPIN Demo, MWERKS, ALPINIST, ALPINIST Free, ALPINIST long travel and ALPINIST Demo ski bindings are compatible with ski boots in accordance with DIN 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.



2.3 BOOT INSPECTION:

COMPATIBILITY:



CAUTION !

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

- Children norm boots must never be used with adult bindings.
- The binding models Comp Junior 8 are designed for use only with children alpine ski boots according to ISO 5355 type C.
- The models F5 JR Tour, Free 7, 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 and with
 - 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 skiing 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.

NOTE:

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

NOTE:

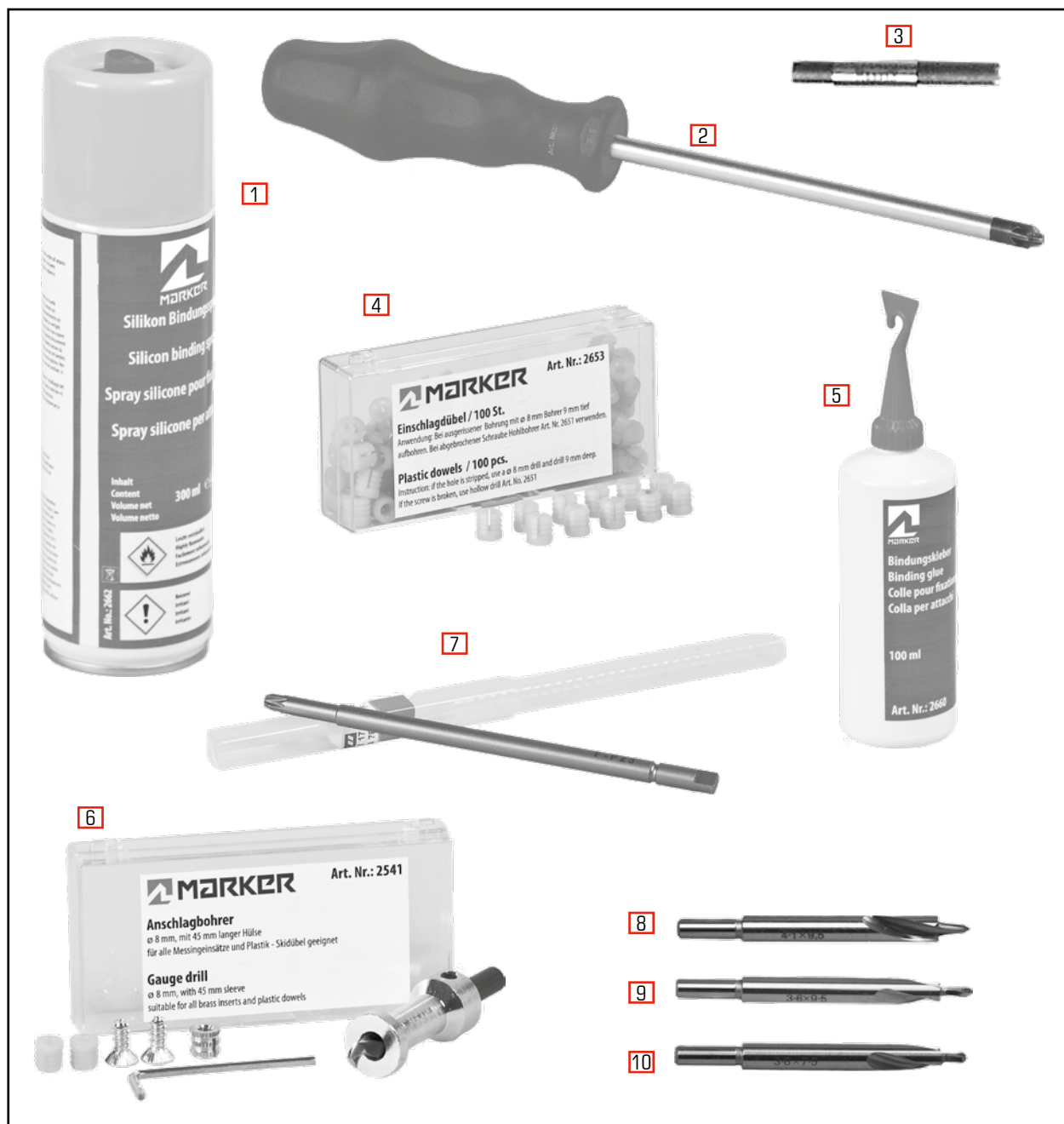
Every alpine binding mounting chapter in this handbook is preceded by a list of suitable boot types. (see also chart → 21.6)

NOTE:

The following markings are affixed to the toe of all Marker alpine bindings from the 22-23 season:

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 TOOLS AND ACCESSORIES:

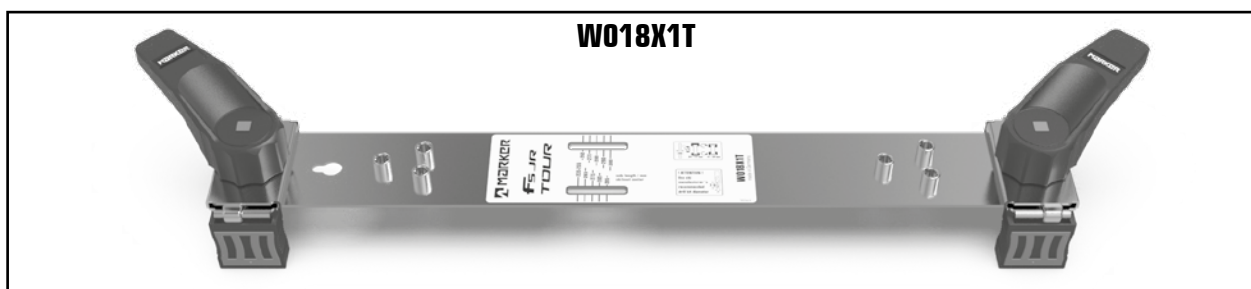
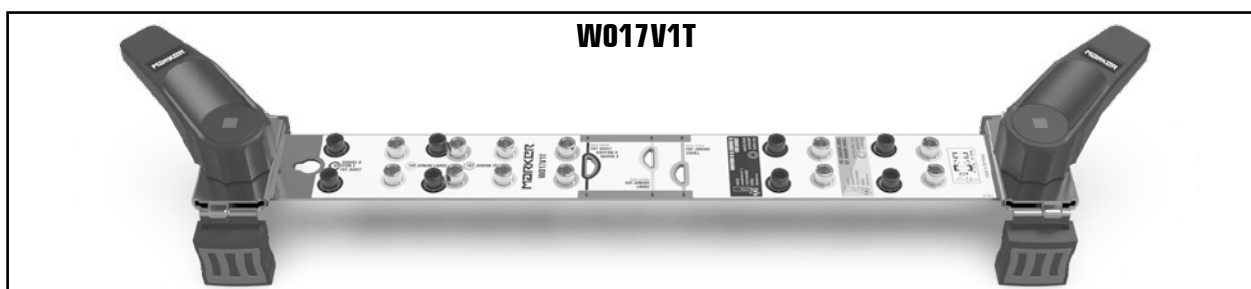
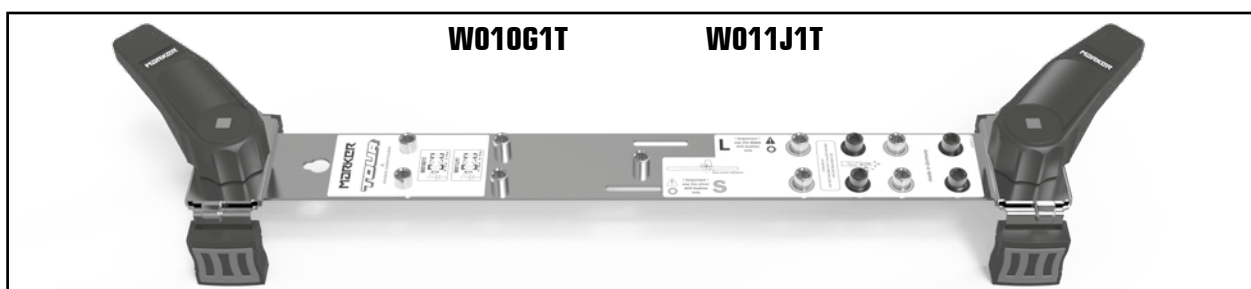
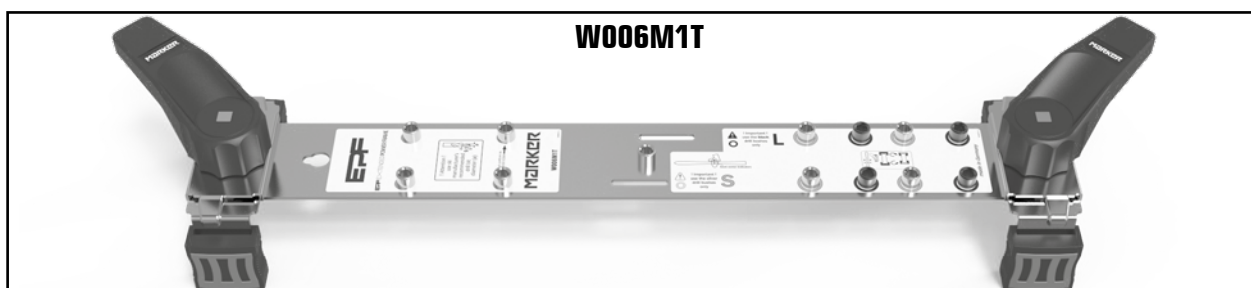
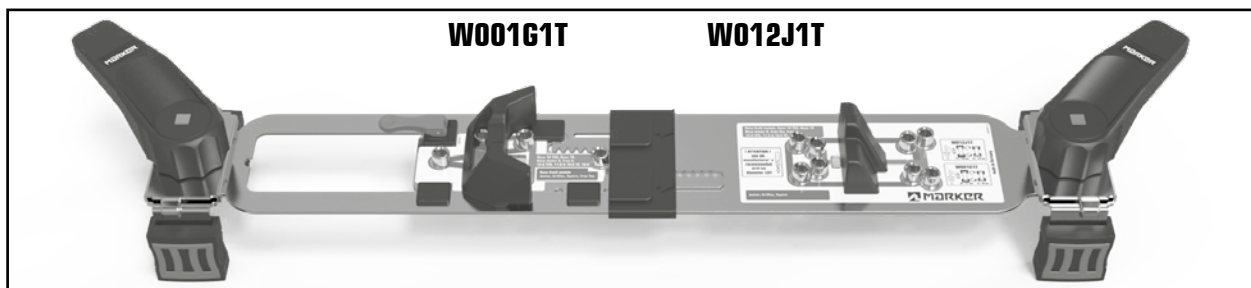
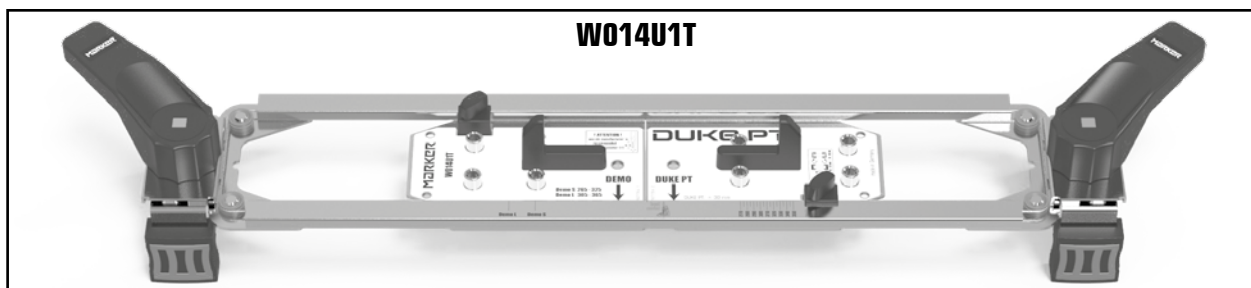

Art.nr.:

1	2662	MARKER silicone spray 300 ml
2	2568	Pozidriv® screw driver # 3
3	2651	Hollow drill bit
4	2653	Helicoil insert PA 6 (100 pcs.)
5	2660	MARKER binding glue 100 ml

Art.nr.:

6	2541	Gauge drill Ø 8 mm (adjustable depth)
7	2547	Power bit 150 mm FEIN (Pozidriv®)
8	2552	Drill bit 4.1 x 9.5
9	2639	Drill bit 3.6 x 9.5
10	2637	Drill bit 3.6 x 7.5

3.1 INSTALLATION TOOLS FOR MARKER BINDINGS:



3.1 INSTALLATION TOOLS FOR MARKER BINDINGS:

W014U1T (70 - 126 mm)

Duke PT 16; Duke PT 13, Duke PT 11

W001G1T (61 - 117 mm)

W012J1T (95 - 150 mm)

Comp 30 & Comp 20

Comp 16 & Comp 16 GW, Comp 12 & Comp 12 GW, Comp 14 GW

Comp 10 TCX, Comp 10, Comp Junior 8,

Jester X 16 MWorks, Griffon X 13 MWorks,

Jester 18 Pro, Jester 16, Griffon 13, Squire 11, Squire 10

12.0 TPX, 11.0 TP, 10.0 TP

W006M1T (95 - 150 mm)

MARKER F 12 Tour EPF S & L

W010G1T (61 - 117 mm)

W011J1T (95 - 150 mm)

MARKER F 10 Tour S & L

W017V1T (61 - 117 mm)

Griffon D, Griffon TCX D

Squire TCX D

FDT Adult

FDT Junior S & L

Race plate PRO

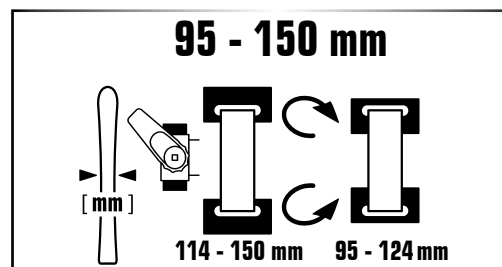
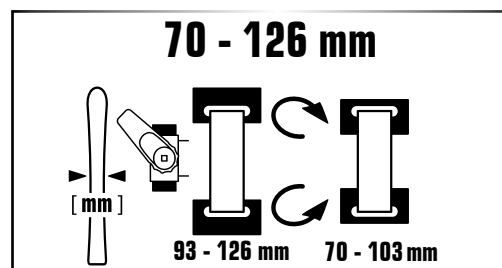
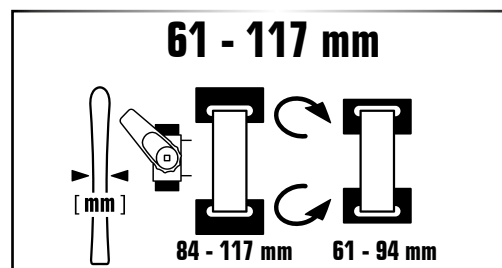
FDT Race plate PRO

W018X1T (61 - 117 mm)

F5 Jr Tour



REMARK:

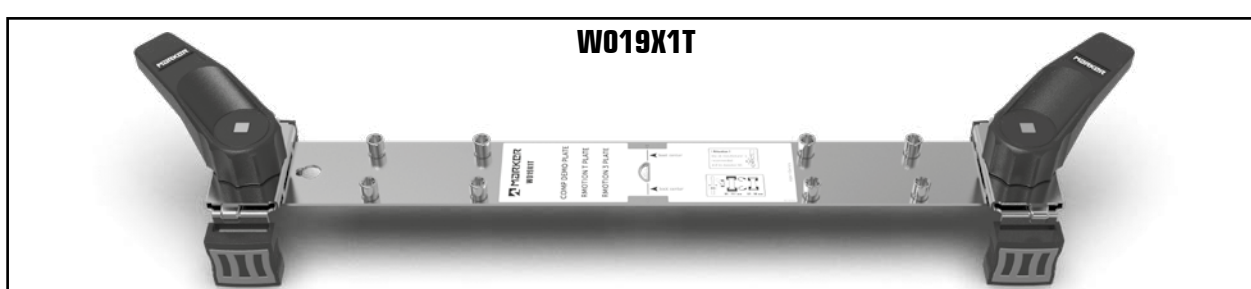
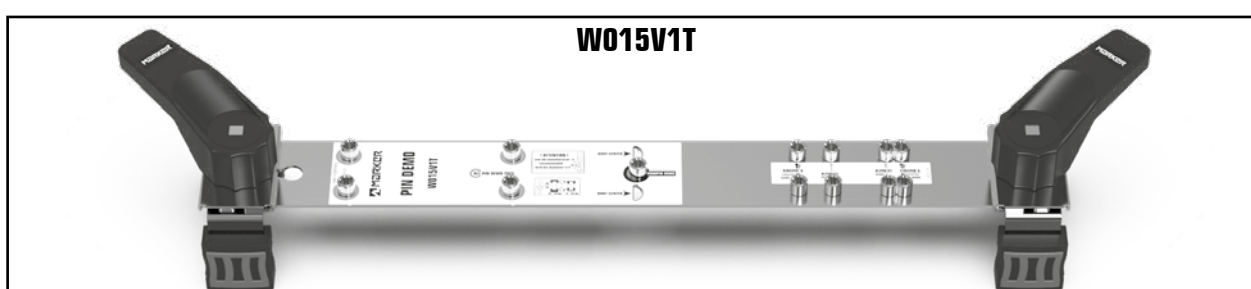
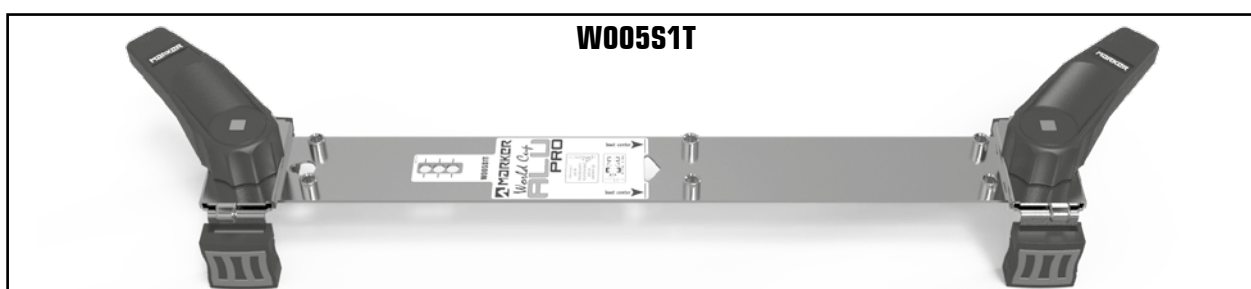
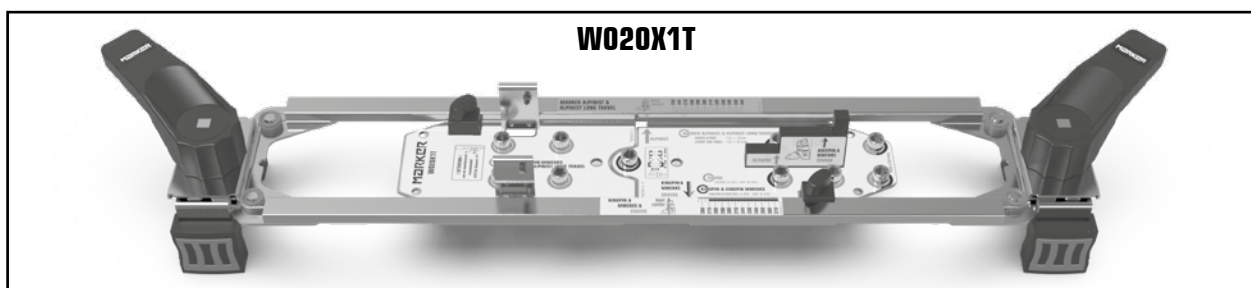
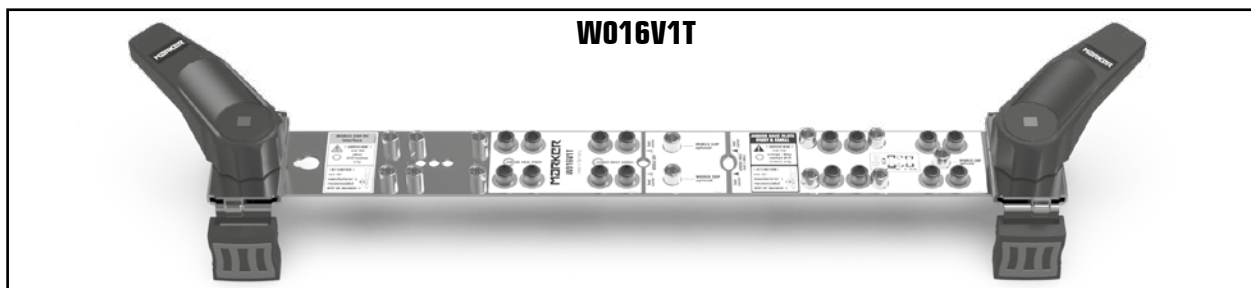
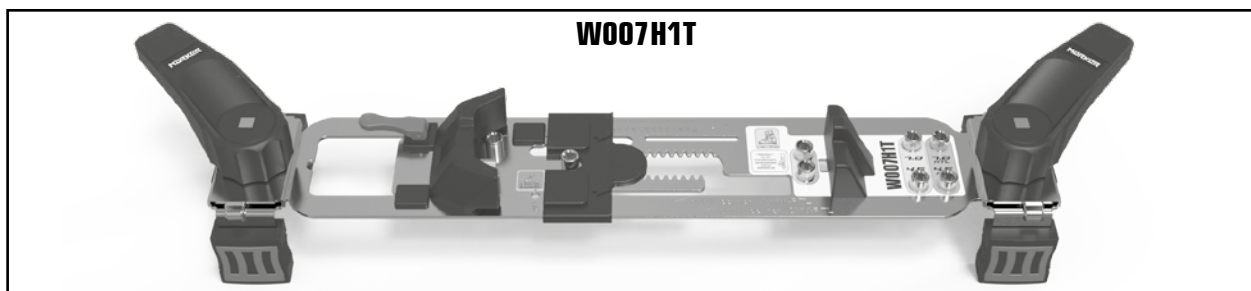


REMARK:

Chart Installation tools / MARKER binding models

see → 21.3

3.1 INSTALLATION TOOLS FOR MARKER BINDINGS:



3.1 INSTALLATION TOOLS FOR MARKER BINDINGS:

W007H1T (61 - 117 mm)

Free 7, 7.0, 4.5,
7.0 RTL,
4.5 RTL

W016V1T (61 - 117 mm)

World Cup Piston Control,
Junior Race Pivot
Junior Race Short

W020X1T (70 - 126 mm)

KINGPIN
KINGPIN MWorks
CRUISE
MARKER ALPINIST & ALPINIST LONG TRAVEL
MARKER ALPINIST JR LONG TRAVEL
MARKER ALPINIST FREE

W005S1T (61 - 117 mm)

MARKER ALU PRO plate

W015V1T (70 - 126 mm)

KINGPIN DEMO
MARKER ALPINIST DEMO
CRUISE DEMO

W019X1T (61 - 117 mm)

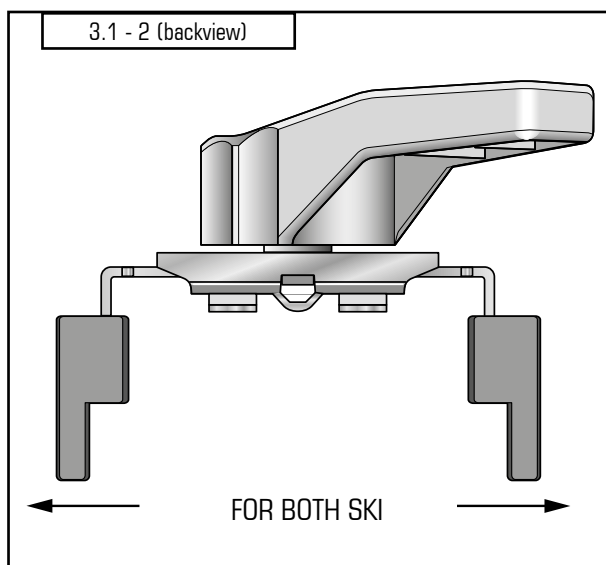
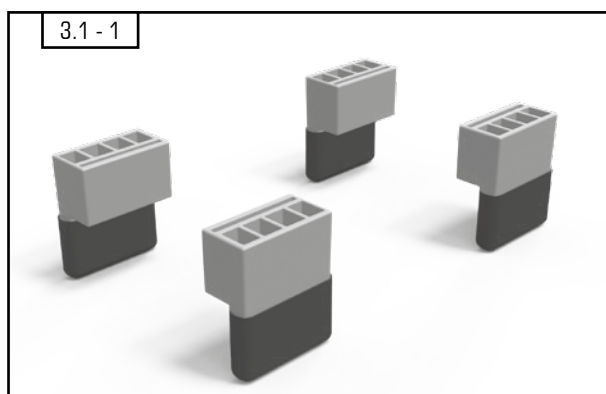
COMP DEMO plate
RMOTION T plate

REMARK:

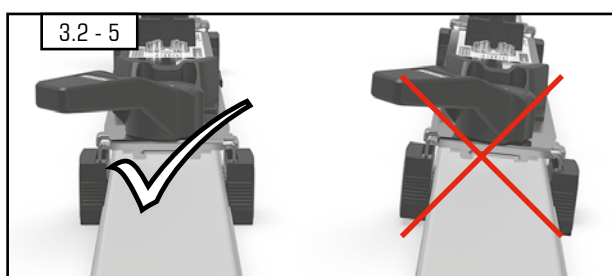
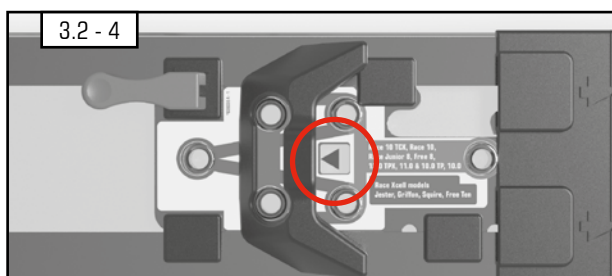
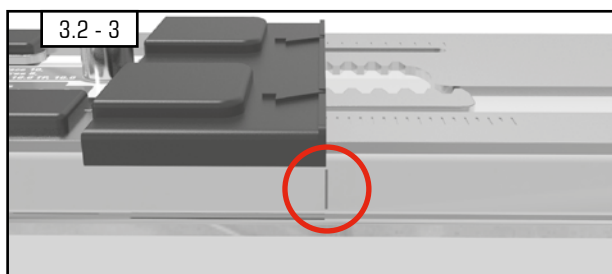
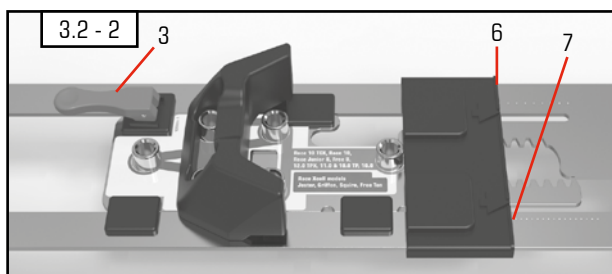
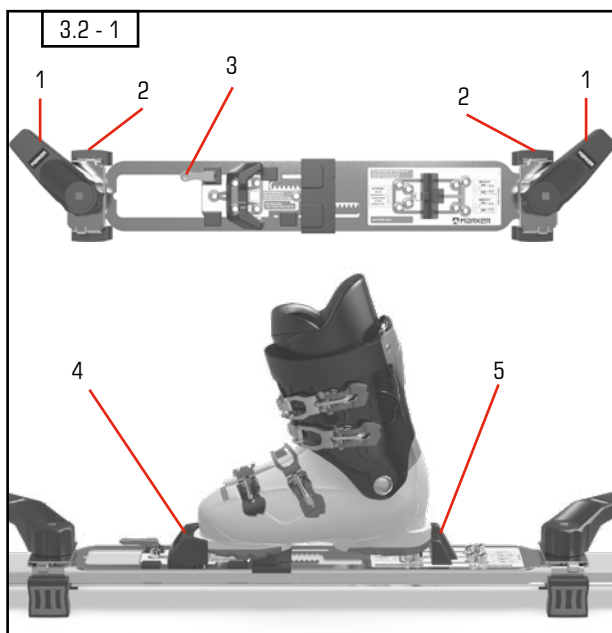
For wide skis up to 148 mm MARKER offers an adapter kit for installation tools. (3.1 - 1)
(mounting tool adapter wide skis 148 mm; Art. Nr.: W001J1A)

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).
- 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:

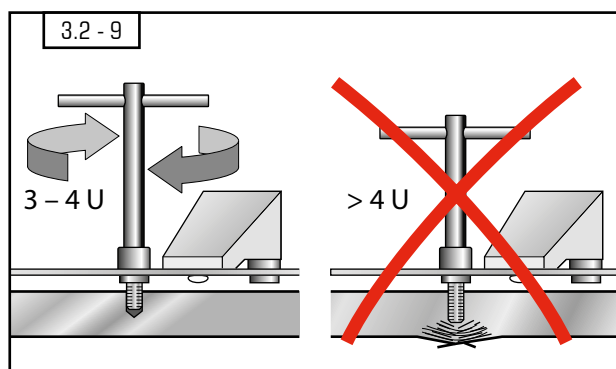
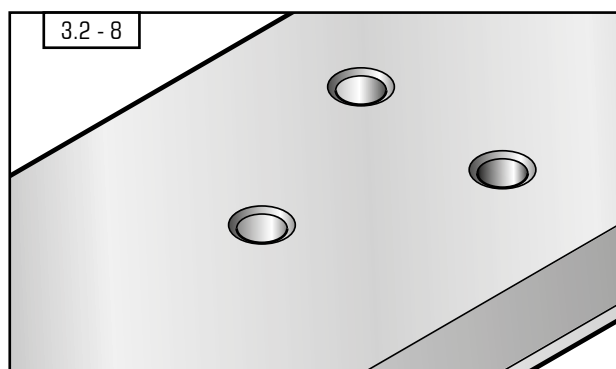
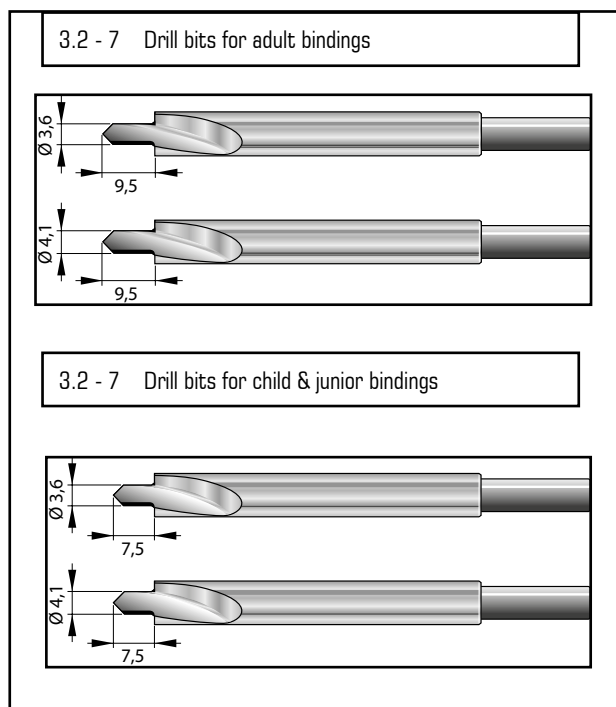
- Place the installation tool on the ski and align the toe guide on the tool with the boot toe mark on the ski (3.2 - 4).



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:



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.

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)

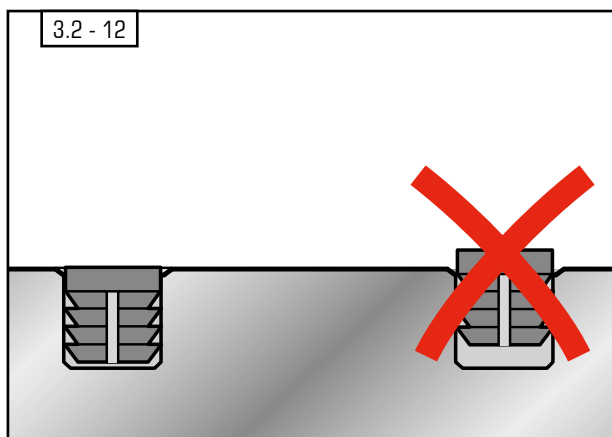
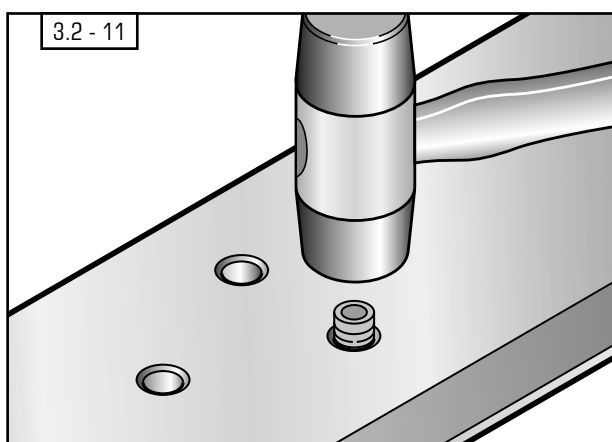
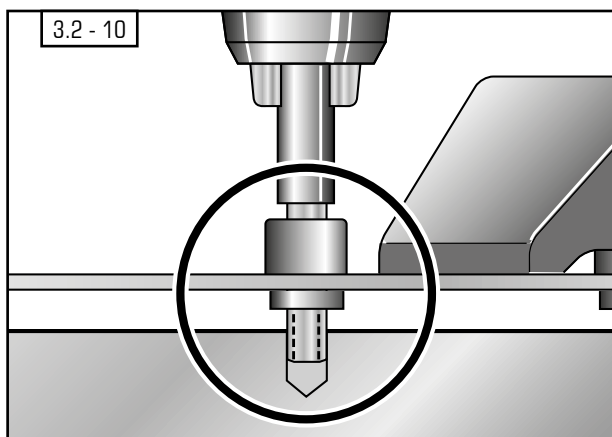


IMPORTANT !

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 → 21.1

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) !

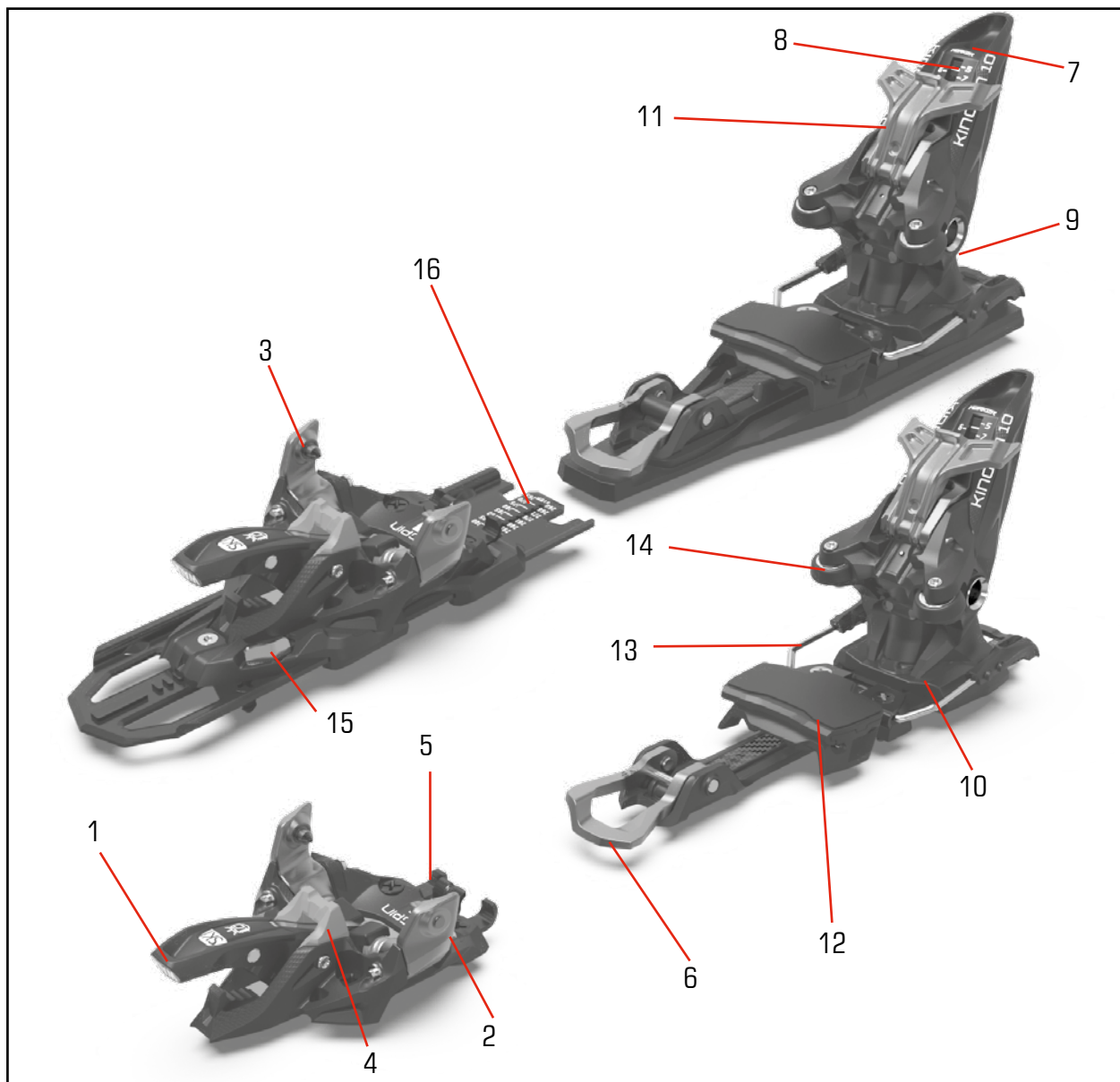
- Re - install the binding.



CAUTION !

Insert the binding screws and tighten only by hand !

4.1 MARKER 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



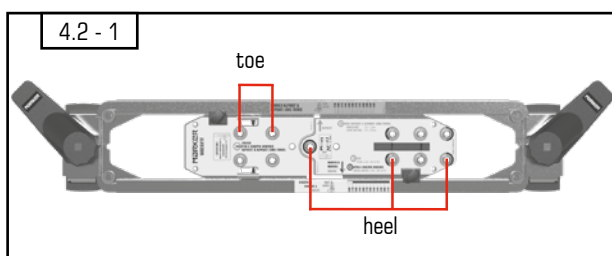
CAUTION !

MARKER KINGPIN, KINGPIN MWERKS and KINGPIN DEMO ski bindings are compatible with ski boots in accordance with DIN 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 → **17.1 - 17.3**) 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.

see → **extranet: Compatibility boot types / MARKER Kingpin**

4.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS



DRILLING THE ATTACHMENT HOLES:

IMPORTANT !



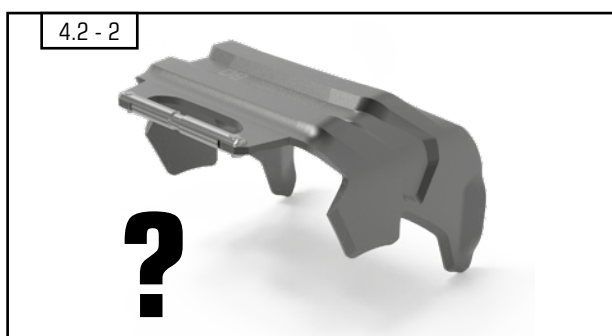
sole length	tool length settings
255 - 269 mm	270 mm
376 - 390 mm	375 mm

ADJUSTMENT OF THE INSTALLATION TOOL → 3.2

- Place the MARKER KINGPIN & ALPINIST & CRUISE installation tool W020X1T in the correct position on the ski. (4.2 - 1)
- Drill 4 holes for the toe through the front drill bushings.
- Drill 5 holes for the heel plate through the rear black marked drill bushings.
- Remove the installation tool from the ski.

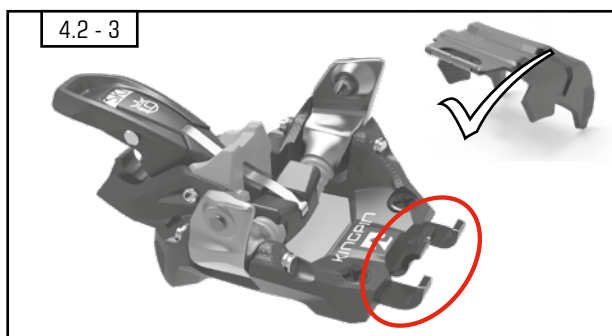
REMARK:

See DRILLING INSTRUCTIONS → 3.2

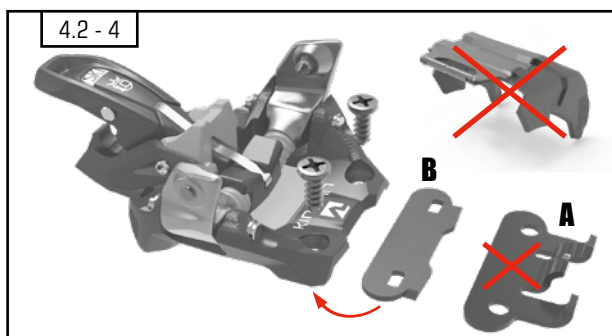


INSTALLING THE TOE:

- Determine the requested mounting option: (4.2 - 2)



MOUNTING OPTION A with crampon holder (4.2 - 3)



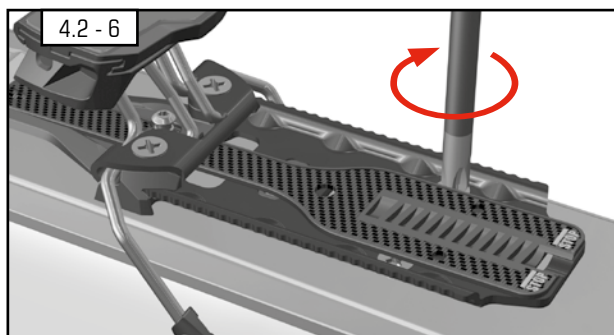
MOUNTING OPTION B without crampon holder (4.2 - 4)

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

4.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS

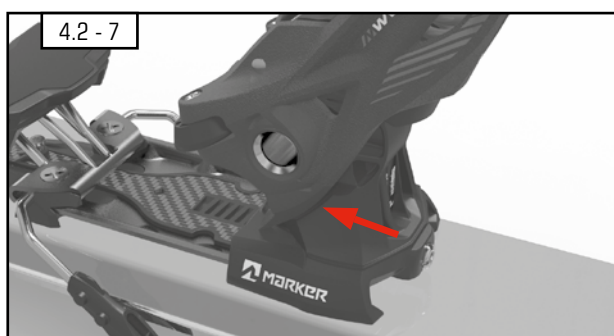


- Install the toe with the pre - installed screws in the holes.
- Tighten all screws lightly by hand, do not tighten them firmly. (4.2 - 5)



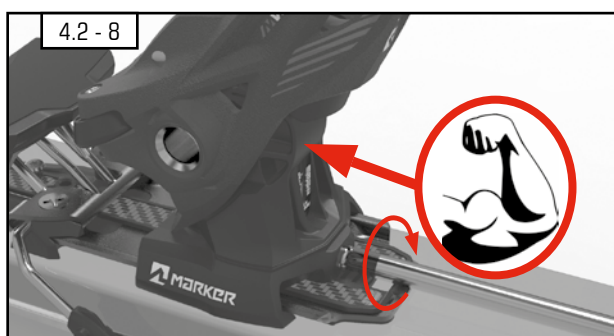
INSTALLING THE HEEL PLATE:

- Install the heel plate with the pre - installed screws in the rear holes.
- Tighten the screws lightly, then firmly. (4.2 - 6)

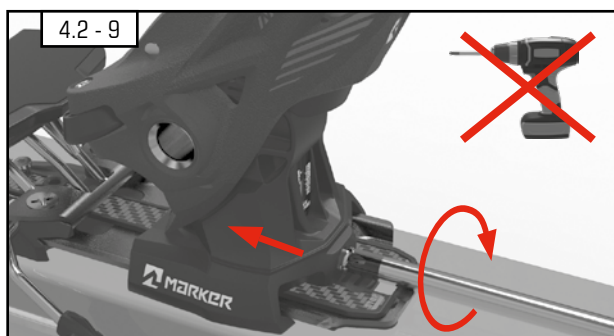


INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops. (4.2 - 7)



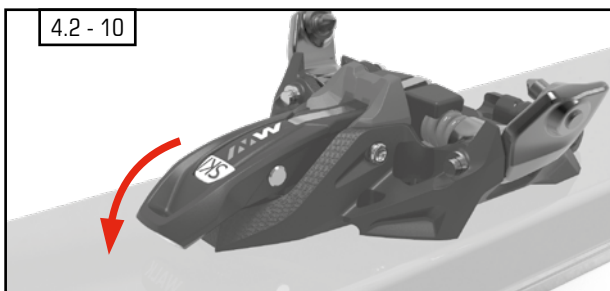
- With strong pressure, screw the heel forward onto the plate by turning the forward pressure adjustment screw. (4.2 - 8)



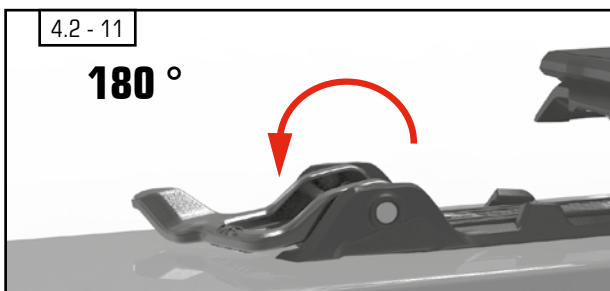
CAUTION !

Screw the heel onto the heel plate by hand !
(4.2 - 9)

4.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS



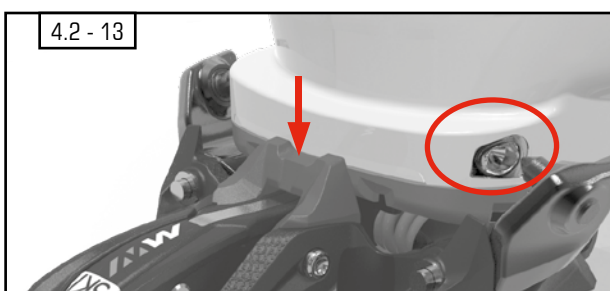
- Open the toe by pressing down the toe opening lever. (4.2 - 10)



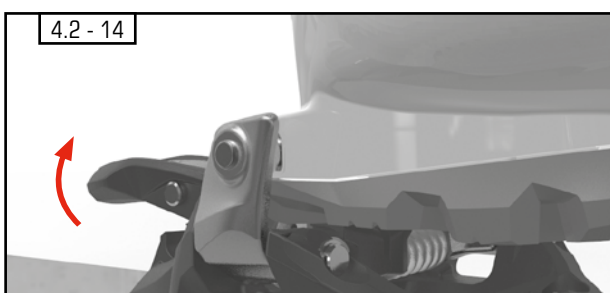
- Switch the change-over lever 180° forward. (4.2 - 11)



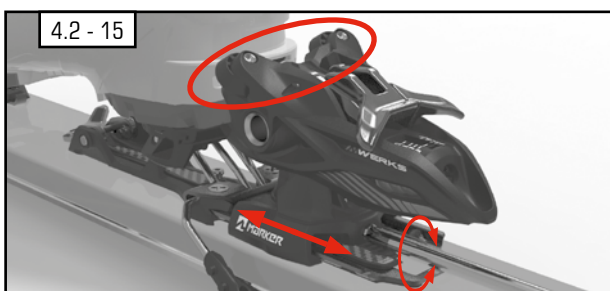
- Open the heel. (4.2 - 12)



- 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. (4.2 - 13)



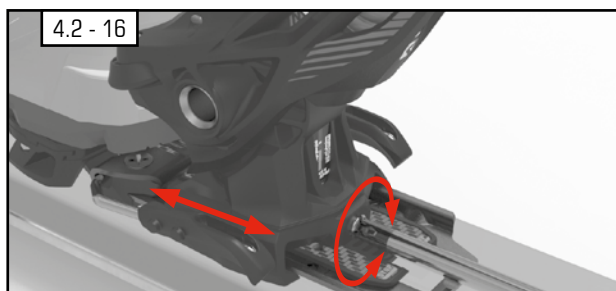
- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (4.2 - 14)



POSITIONING THE HEEL:

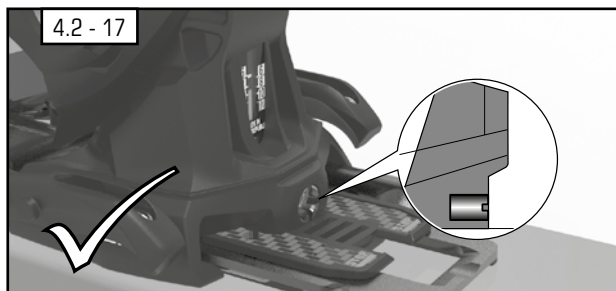
- Place the ski boot into the binding and turn the adjustment screw until the position of the heel is approximately right. (4.2 - 15)

4.2 INSTALLATION OF MARKER KINGPIN & KINGPIN MWERKS BINDINGS

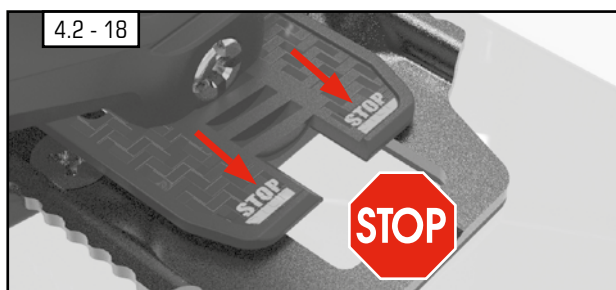


CHECK FORWARD PRESSURE:

- 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. (4.2 - 16 and 4.2 - 17)



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

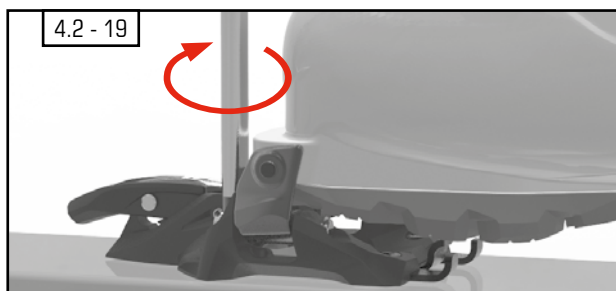


IMPORTANT SAFETY ADVICE !

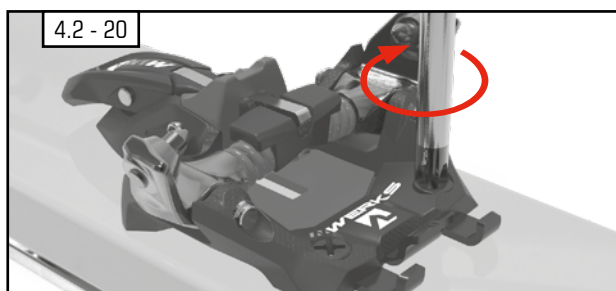


Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (4.2 - 18)

- With the boot in the closed binding tighten the two front toe screws firmly. (4.2 - 19)



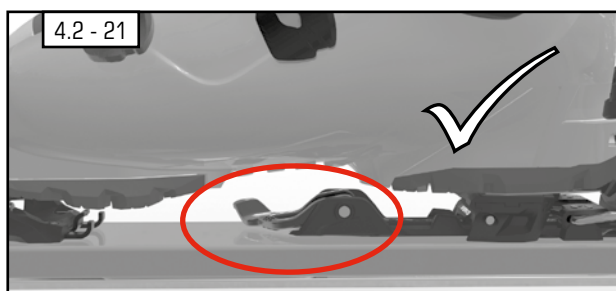
- Remove the ski boot and tighten the two rear toe screws firmly. (4.2 - 20)



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 ! (4.2 - 21)



INFORMATION FOR BINDING ADJUSTMENT:

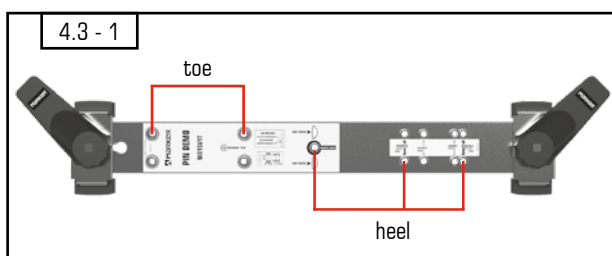
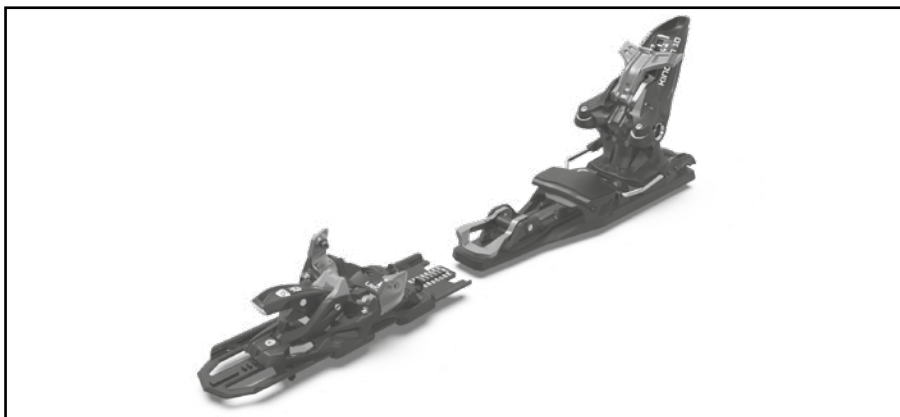


see chapter → 4.4

REMARK:

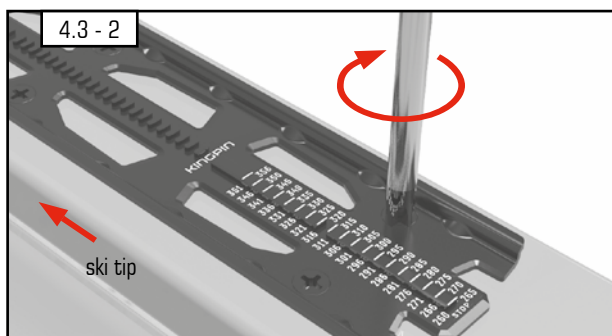
MARKER KINGPIN & KINGPIN MWERKS ski bindings do not have a certificate from TÜV and thus do not meet the relevant standards. The product meets the current technical requirements using the latest technology.

4.3 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. (4.3 - 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.

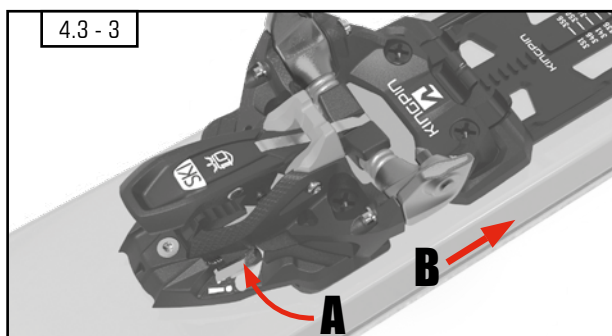


REMARK:

See DRILLING INSTRUCTIONS → 3.2

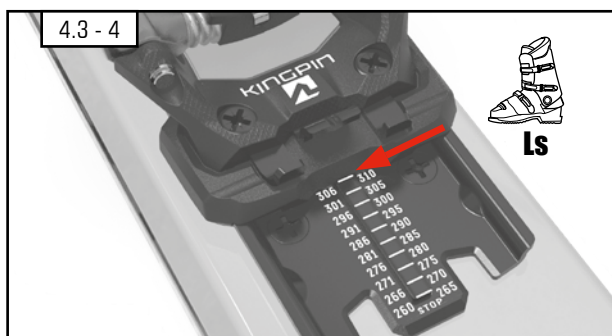
INSTALLING THE TOE PLATE:

- Place the toe plate onto the ski.
- Insert the enclosed screws. Tighten the screws lightly, then firmly. (4.3 - 2)



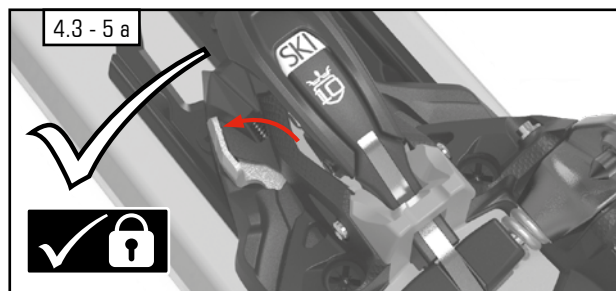
INSTALLING THE TOE:

- Open the locking lever (A) and slide the toe with lever open from the front of the plate backward (B). (4.3 - 3)



- Slide the toe backward to the correct sole length in accordance with the sole length scale. (4.3 - 4)

4.3 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS



- Close the locking lever. (4.3 - 5 a)



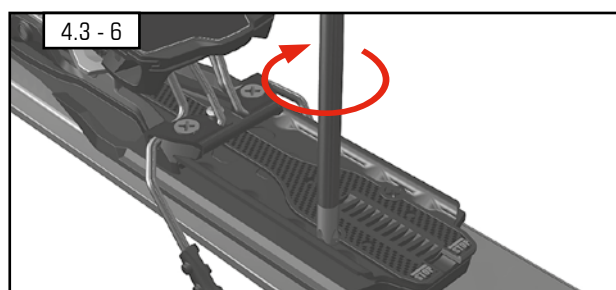
CAUTION !

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 ! (4.3 - 5 b)



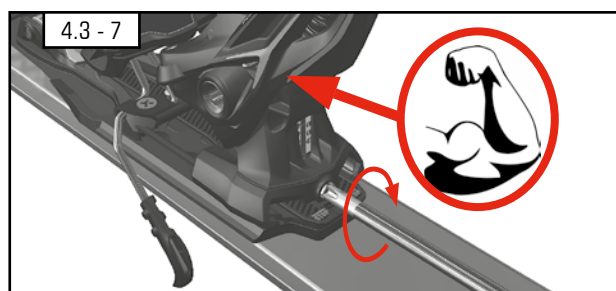
INSTALLING THE HEEL PLATE:

- Install the heel plate with the pre - installed screws in the rear holes.
- Tighten the screws lightly, then firmly. (4.3 - 6)



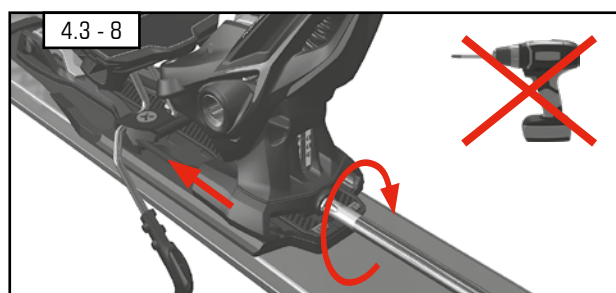
INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops. (4.3 - 7)
- With strong pressure, screw the heel forward onto the plate by turning the forward pressure adjustment screw. (4.3 - 8)



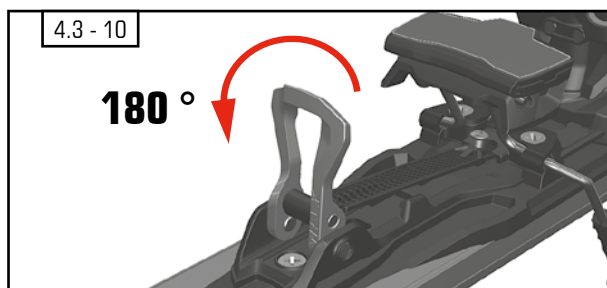
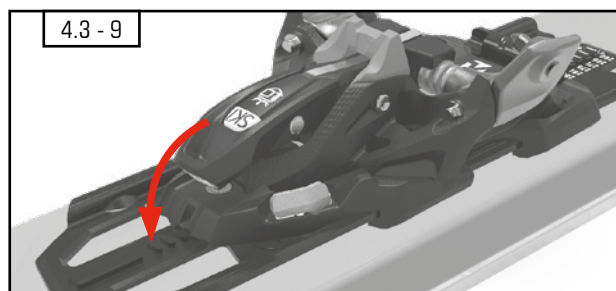
CAUTION !

Screw the heel onto the heel plate by hand !



- Open the toe by pressing down the toe opening lever. (4.3 - 9)

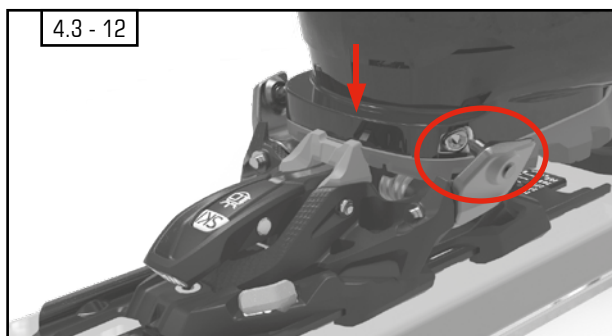
- Switch the change-over lever 180° forward. (4.3 - 10)



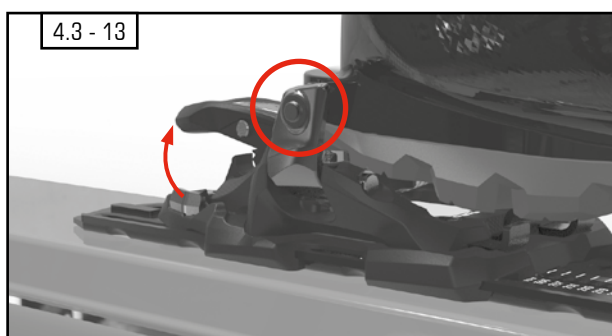
4.3 INSTALLATION OF MARKER KINGPIN DEMO BINDINGS



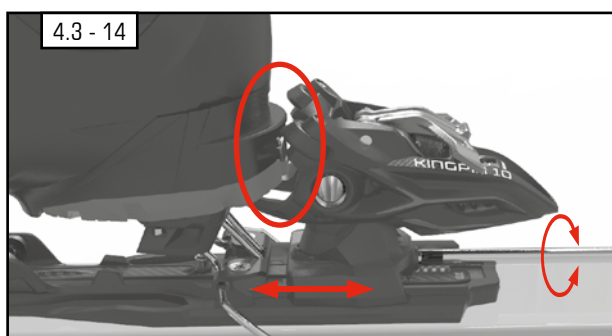
- Open the heel. (4.3 - 11)



- 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. (4.3 - 12)



- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (4.3 - 13)



POSITIONING THE HEEL:

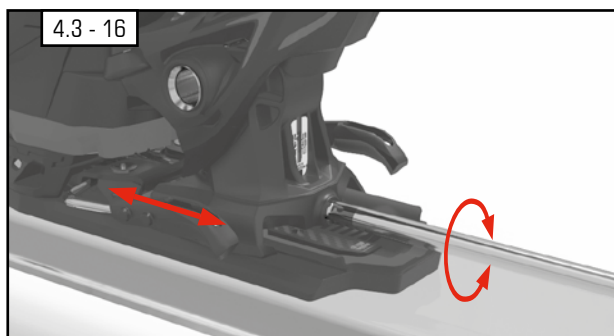
- Place the ski boot into the binding and turn the adjustment screw until the position of the heel is approximately right. (4.3 - 14)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it. (4.3 - 15)

4.3 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. (4.3 - 16 and 4.3 - 17)

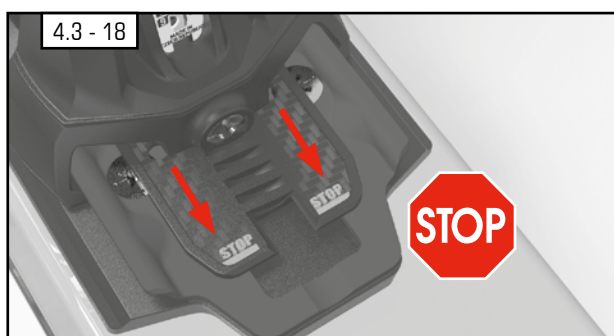


- Remove the ski boot, then re - insert it into the binding and recheck the adjustment.



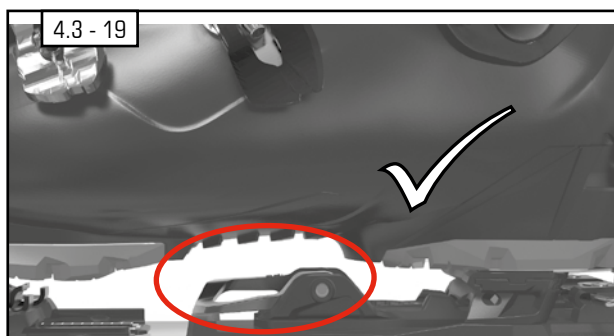
IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (4.3 - 18)



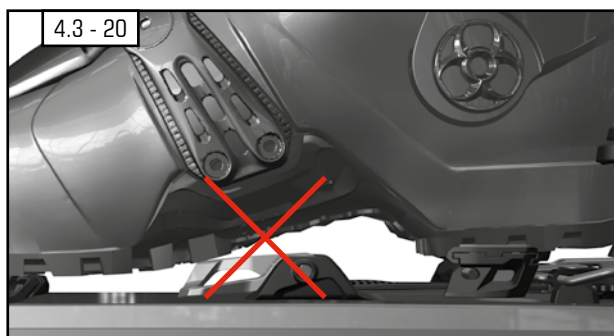
CAUTION !

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 ! (4.3 - 19 and 4.3 - 20)



INFORMATION FOR BINDING ADJUSTMENT:

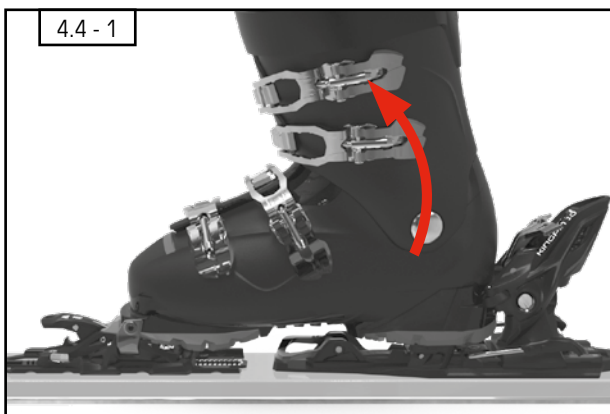
see chapter → 4.4



REMARK:

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

4.4 MARKER KINGPIN - INFORMATION FOR BINDING ADJUSTMENT



BINDING RELEASE FORCE ADJUSTMENT SCREWS AND RELEASE VALUE INDICATOR SCALES

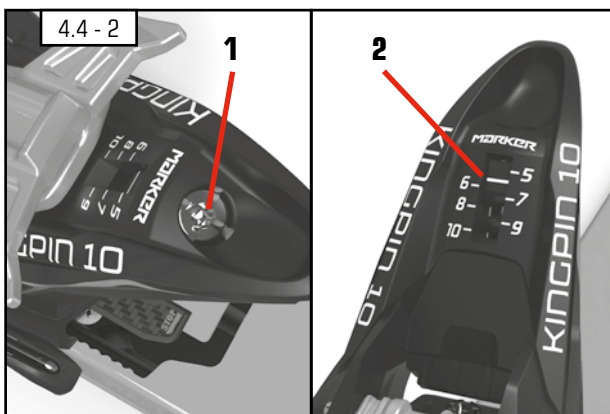
REMARK:

MARKER recommends adjustment with a Pozidriv® 3 screwdriver.

ADJUSTMENT SCREWS AND INDICATOR SCALES ON THE HEEL

VERTICAL RELEASE (4.4 - 1)

- Turn the adjustment screw (1) until the indicator line aligns with the selected release setting on the indicator scale (2). (4.4 - 2)

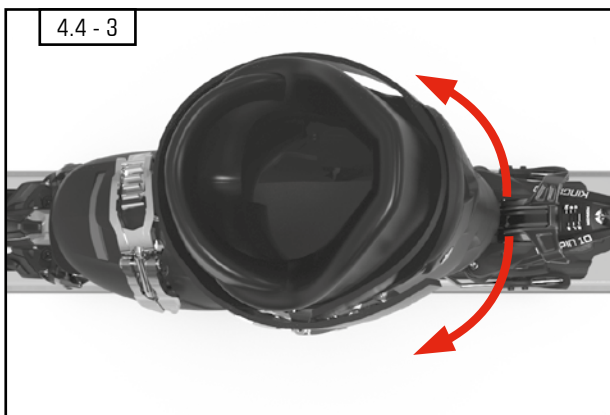


LATERAL RELEASE (4.4 - 3)

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). (4.4 - 4)



FUNCTION TEST AND SERVICE

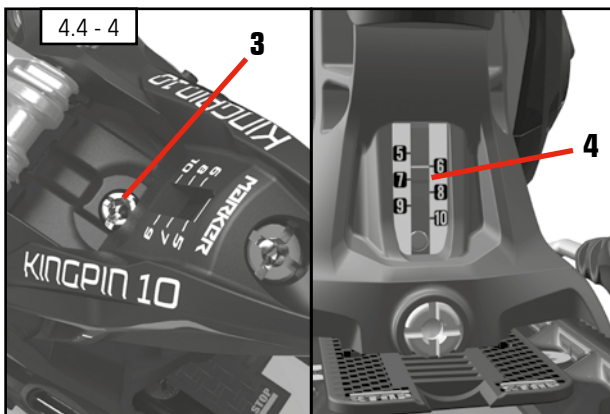
KINGPIN bindings can be tested without restrictions on and with standard setting and calibration equipment.

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.

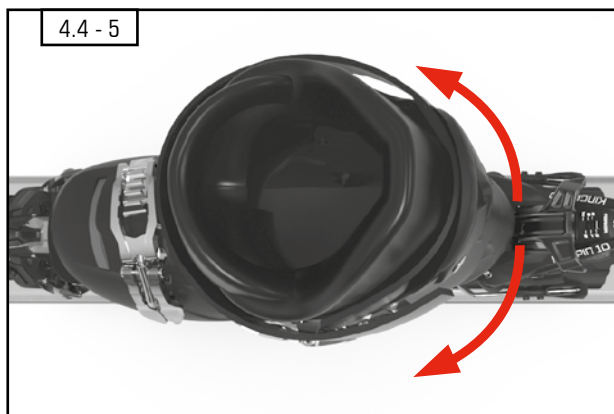
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3



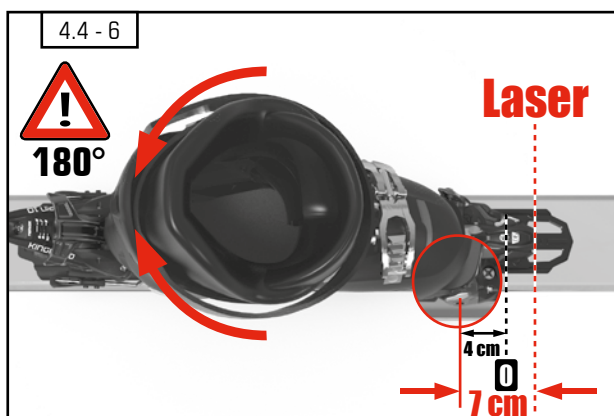
CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 20.3

4.4 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. (4.4 - 5)

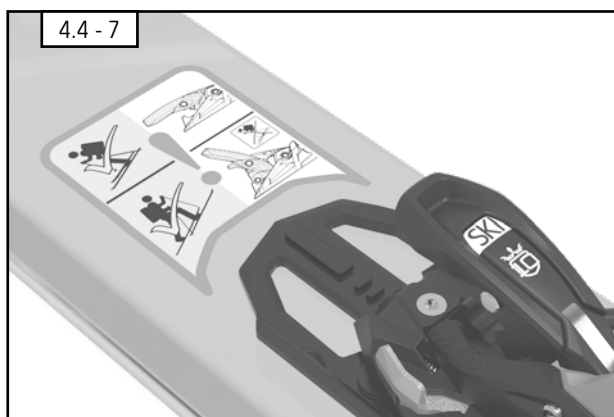


For equipment that initiates a trigger via a lever arm to which force is applied, the ski has to be inserted the other way round. (The tip of the ski points in the opposite direction to normal). (4.4 - 6)

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.



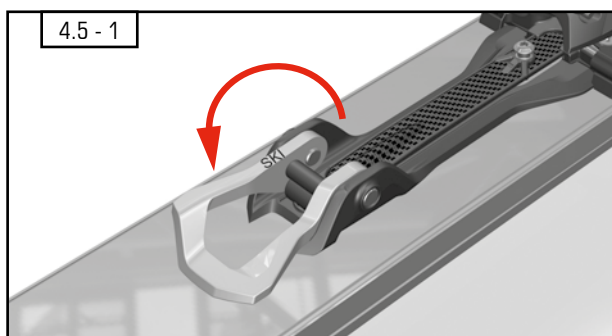
REMARK:

When mounting the binding make sure that you fit the enclosed stickers to the ski. (4.4 - 7)



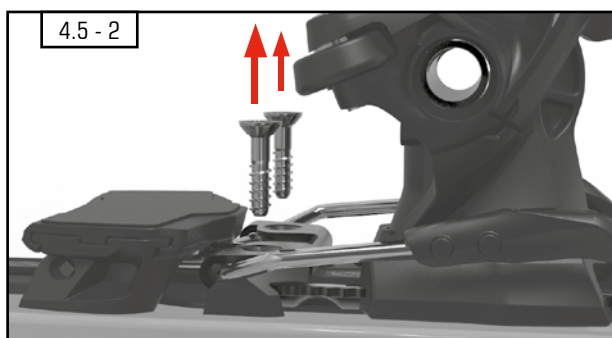
KINGPIN
THE NEW POWER IN TOURING

4.5 MARKER KINGPIN REPLACING BRAKES / INSTALLATION OF GLIDING AFD

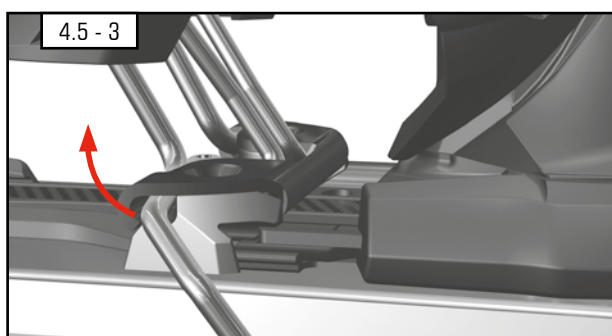


DEMOUNT THE SKI BRAKE:

- Switch the change-over lever 180° forward to the "Ski" position. (4.5 - 1)

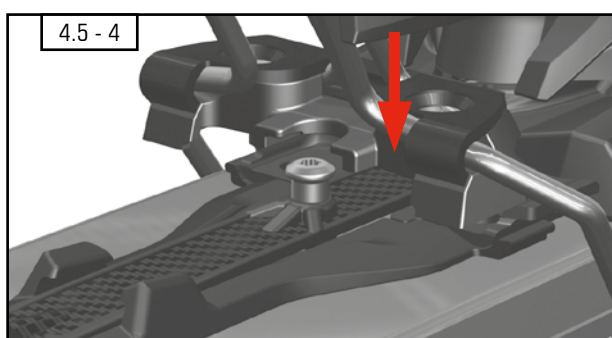


- Remove the attachment screws of the ski brake. (4.5 - 2)

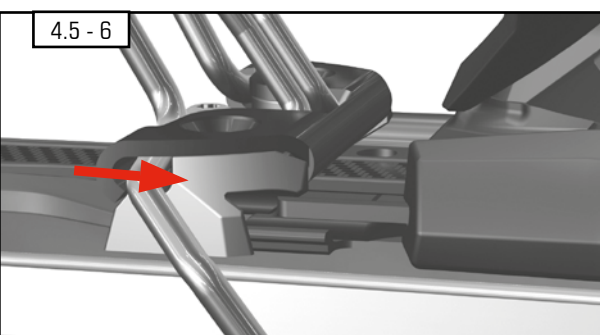


- Pull the ski brake slightly forward and upward to remove. (4.5 - 3)

INSTALL THE KINGPIN BRAKE:

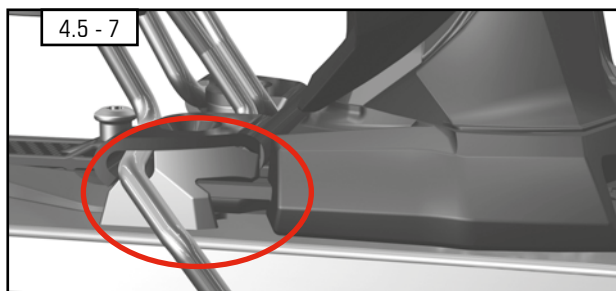


- Mount the brake from top to the heel plate. (4.5 - 4)



- Slide the brake backward onto the heel plate. (4.5 - 5 and 4.5 - 6)

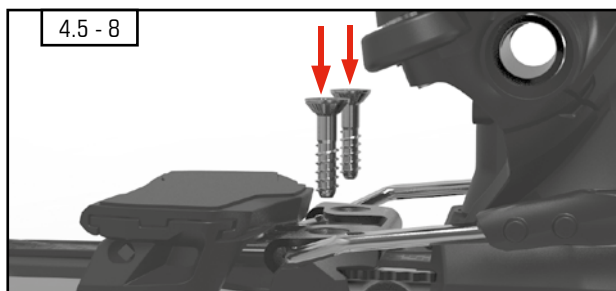
4.5 MARKER KINGPIN REPLACING BRAKES / INSTALLATION OF GLIDING AFD



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 ! (4.5 - 7)

- Install the attachment screws and tighten them by hand. (4.5 - 8)



INSTALLATION OF THE KINGPIN GLIDING AFD:

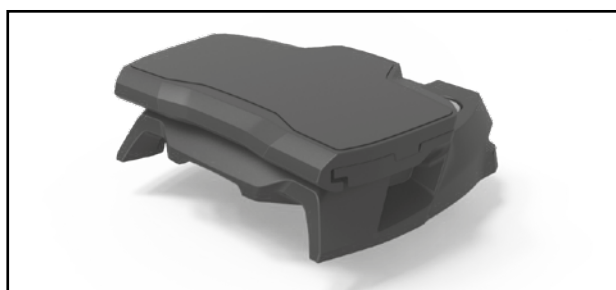
The brakes of the KINGPIN bindings can be replaced by the AFD gliding platform.



CAUTION !

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

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



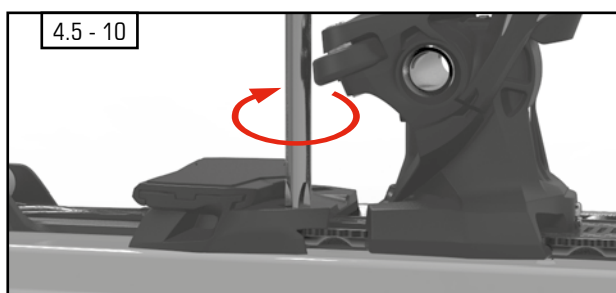
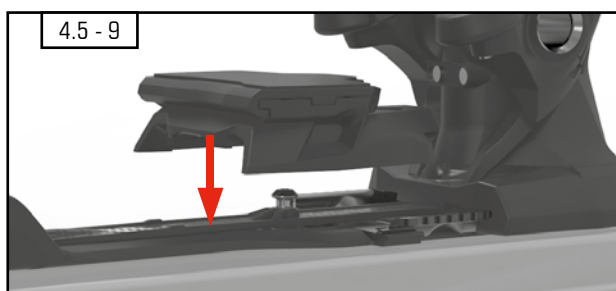
IMPORTANT SAFETY ADVICE !

The MARKER KINGPIN must be equipped with ski brake and/or safety leash !

In case of disregard the ski can speed downhill after a release and hazard other persons.

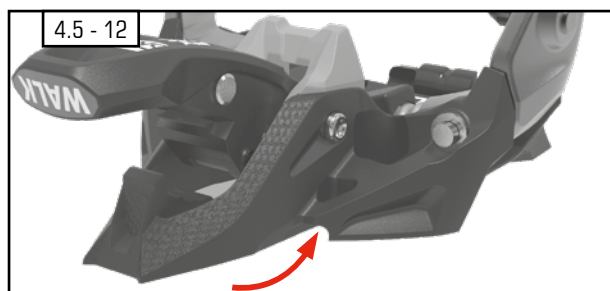
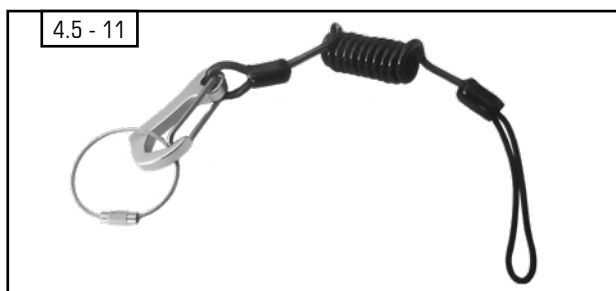
REMARK:

MARKER offers a special Kingpin, Alpinist & Cruise safety leash. (4.5 - 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. (4.5 - 12)



4.6 MARKER KINGPIN - INFORMATION FOR THE SKIER

In addition to the system explanations → 20.1 - 20.3, the following instructions must be given to the intended user of a MARKER KINGPIN binding:

STEP - IN:

- Clear snow, ice and dirt from the sole of the ski boot and the Pin inserts before stepping into the binding.
- If the heel sole holder is closed, open it by pressing the opening lever with the ski pole tip, boot sole, ski tail or hand.
- If the toe is closed, open it by pressing down the toe opening lever.
- Position the tip of the ski boot on the toe's step-in aids and between the retaining pins on the toe.
- Then press the tip of the boot down and step into the toe until the pins are locked fully into position in the insert.
- Move the locked boot back and forth several times to ensure that boot and binding are securely connected.
- Close the binding by stepping straight down into the heel.

STEP - OUT:

Variant 1:

- Press down the opening lever on the toe with a ski pole, ski, ski boot or by hand.
- Lift the tip of the ski boot slightly and rotate the boot sideways out of the binding. Before you can step in again, the heel must be opened.

Variant 2:

- Press down the opening lever on the heel with a ski pole, ski, ski boot or by hand.
- Lift the heel of the ski boot slightly and press down the opening lever on the toe with a ski pole, ski or your hand.

OPENING THE BINDING AFTER A FALL OR ACCIDENT:

- Press down the opening levers (heel and/or toe) with a ski pole or by hand.

SYSTEM EXPLANATION FOR THE SKIER:

- Explain the boot - to - binding adjustment.
- Show where the release adjustment screws are and explain the adjustment at the visual indicators on the ski bindings and how they correspond to the recorded numbers on the workshop form. The skier should know his own DIN settings and/or skier code.
- Point out the left and the right ski indicators.
- If any system components are worn out of standard or otherwise unsuitable for continued use, the skier must be clearly informed of the problem and warned that continued use may significantly increase his or her risk of injury.
- Advise that if any problem develops with any part of the function unit ski - ski binding - ski boot it should be brought to a MARKER authorized retailer for inspection and service.

RECEIPT OF IN - BOX INSTRUCTIONS:

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

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.

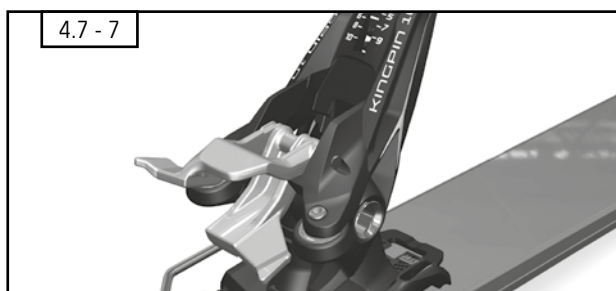
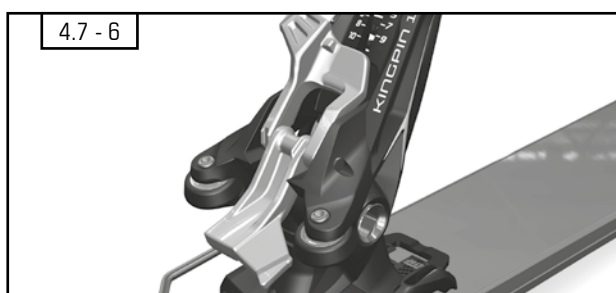
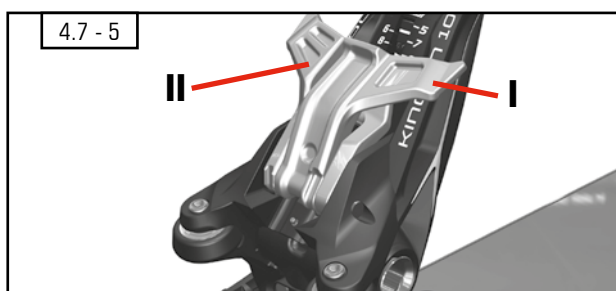
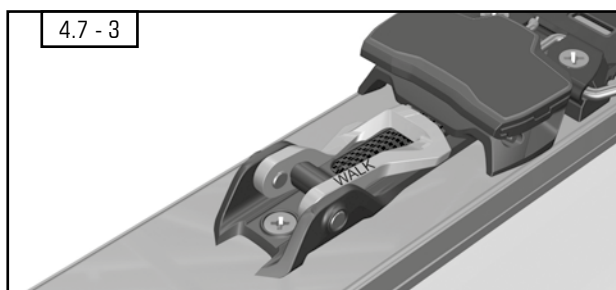
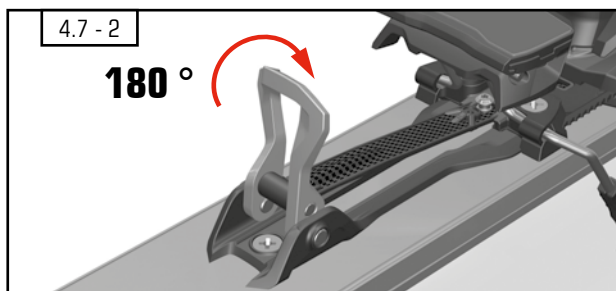
NOTE:

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

NOTE:

Crampon Kingpin, Alpinist & Cruise → 6.7

4.7 MARKER KINGPIN - INFORMATION FOR THE SKIER



In addition to the system explanations → 20.1 - 20.3 the following instructions must be given to the intended user of a MARKER KINGPIN binding:

CHANGE - OVER FROM SKIING TO HIKING POSITION:

- An adjusting lever between the toe and heel can be used to set two different positions (skiing - mode / walking - mode).
- There is also another lever at the front end of the toe (C), that can also be used to choose between the positions for descent (SKI) and ascent (WALK). To switch from the descent position to ascent mode in order to walk with the binding, move the adjusting lever (4.7 - 1, 4.7 - 2 and 4.7 - 3) backwards by 180° and pull the toe opening lever upwards (4.7 - 4). The lever noticeably clicks into a catch and should be pulled up as far as possible.



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

- When taking the first step with the binding in walking mode, the brake is automatically applied and the heel clicks, thus getting the hiking aids ready for use. The ski mountaineer is now in the 0° walking position.

USING THE HIKING AID

- In hiking mode, you can use two hiking aids with different angles. (4.7 - 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. (4.7 - 6)

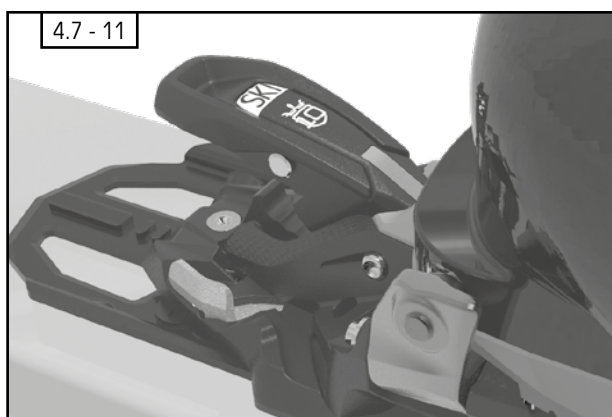
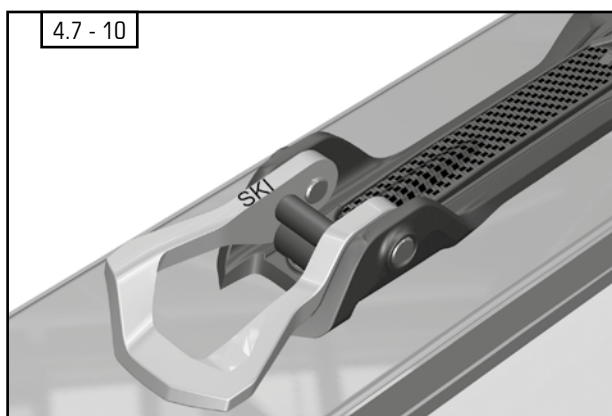
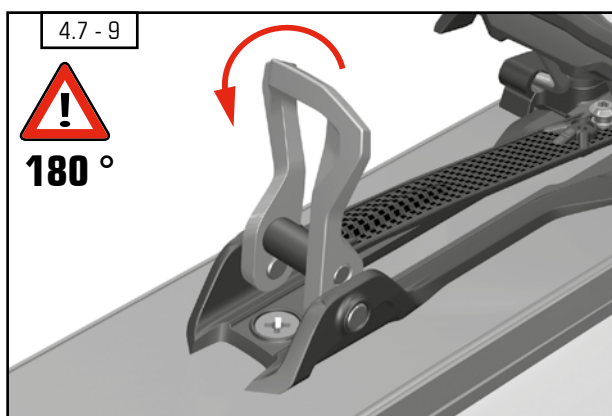
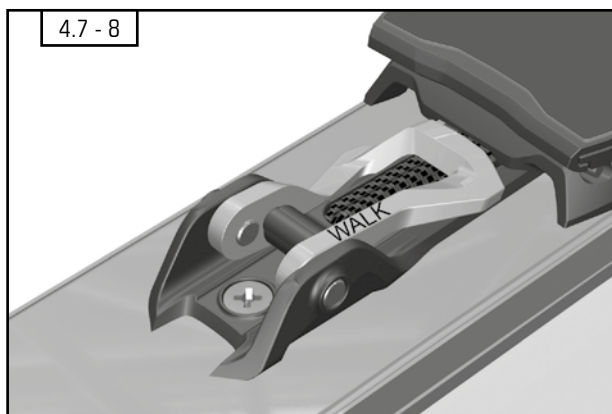
HIKING AID HIGH POSITION:

- 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. (4.7 - 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.

4.7 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 walking - mode (unlocked position) to the skiing - mode (locked position) switch the lever 180° forward . (4.7 - 8, 4.7 - 9 and 4.7 - 10).

REMARK:

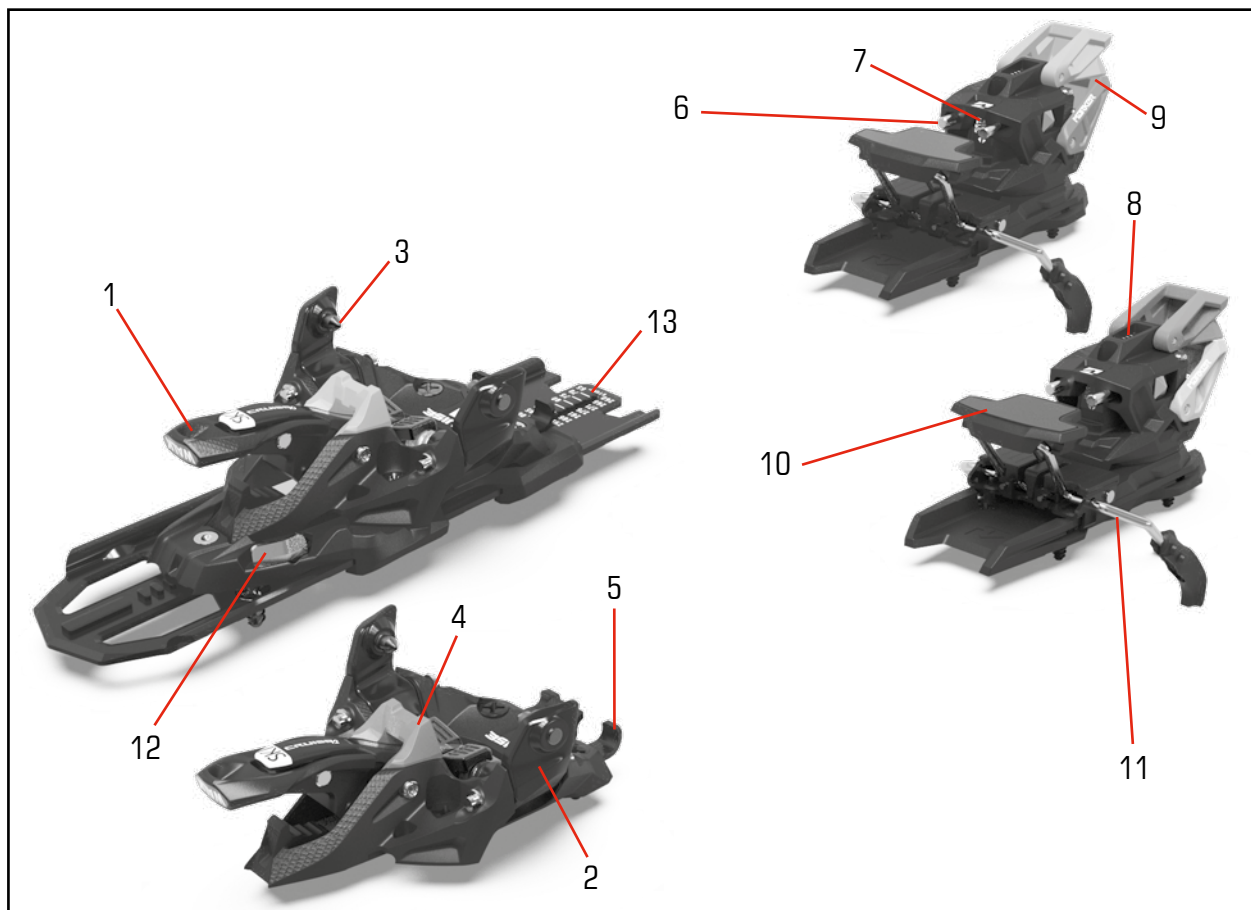
Because the brake is not active in ascent mode, the lever must be set to the descent position before the skins are removed from the ski.



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 ! (4.7 - 11)

5.1 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



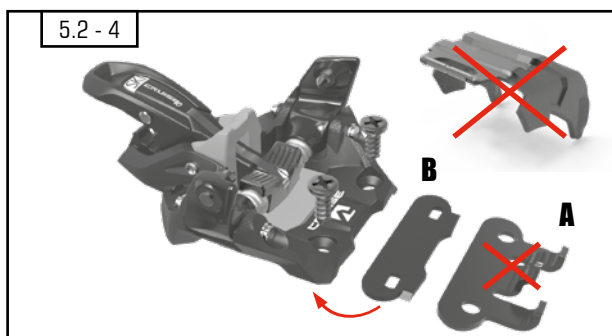
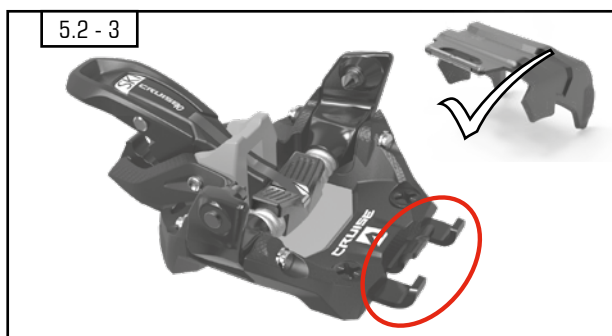
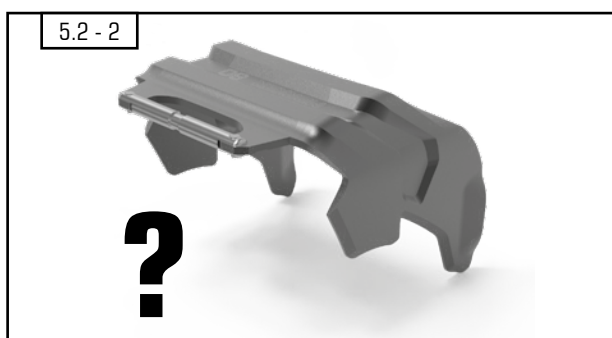
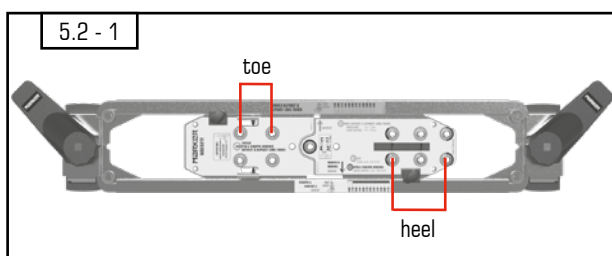
CAUTION !

MARKER CRUISE ski bindings are compatible with ski boots in accordance with DIN 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 → 17.1 - 17.3) should not be used with Marker CRUISE bindings.

REMARK:

MARKER CRUISE 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.

5.2 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. (5.2 - 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:

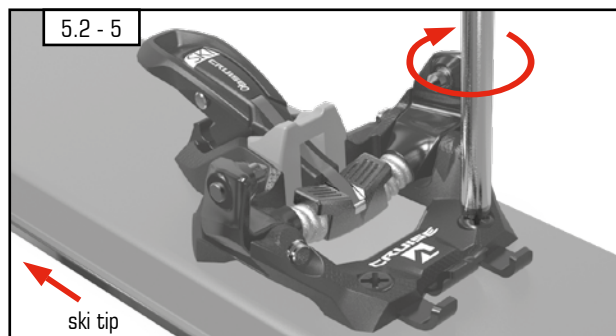
- Determine the requested mounting option: (5.2 - 2)

MOUNTING OPTION A with crampon holder (5.2 - 3)

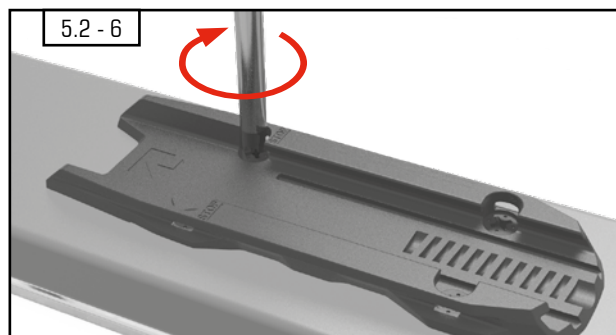
MOUNTING OPTION B without crampon holder (5.2 - 4)

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

5.2 INSTALLATION OF MARKER CRUISE BINDINGS

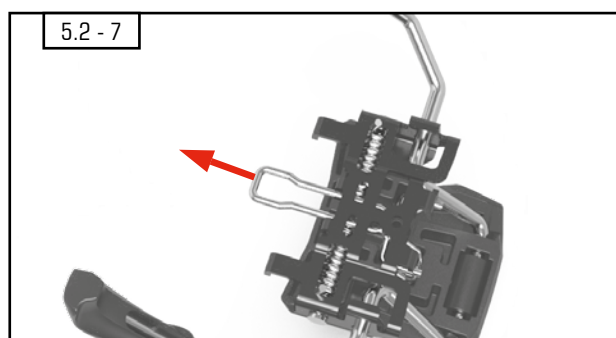


- Install the toe with the pre - installed screws in the holes.
- Tighten all screws lightly by hand, do not tighten them firmly. (5.2 - 5)



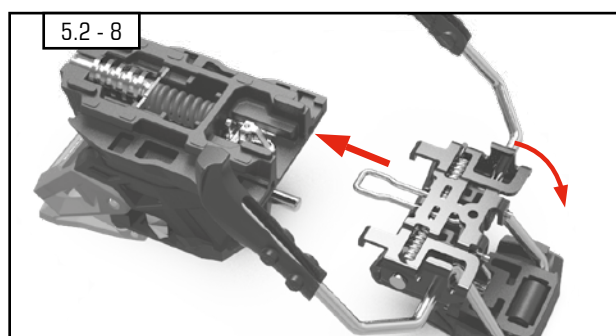
INSTALLING THE HEEL PLATE:

- Install the heel plate with the pre - installed screws in the rear holes.
- Tighten the screws lightly, then firmly. (5.2 - 6)

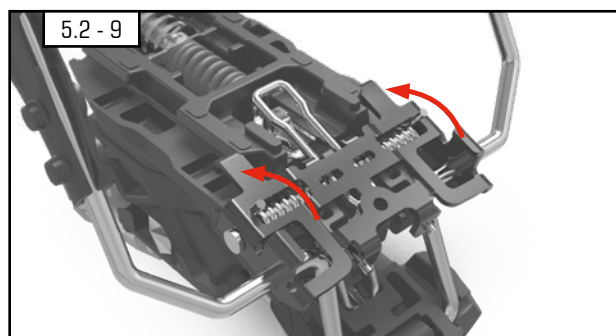


PREASSEMBLING THE HEEL WITH THE BRAKE:

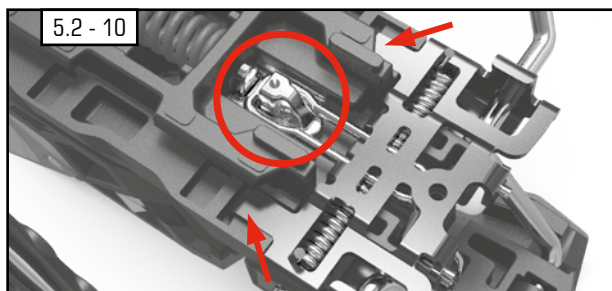
- The brake locking frame must be pulled backwards to the stop (5.2 - 7).



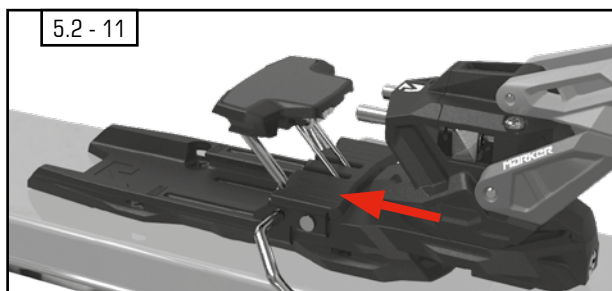
- Tilt the brake slightly, then apply it from the front to the bottom of the heel and hook it in. (5.2 - 8 and 5.2 - 9)



5.2 INSTALLATION OF MARKER CRUISE BINDINGS

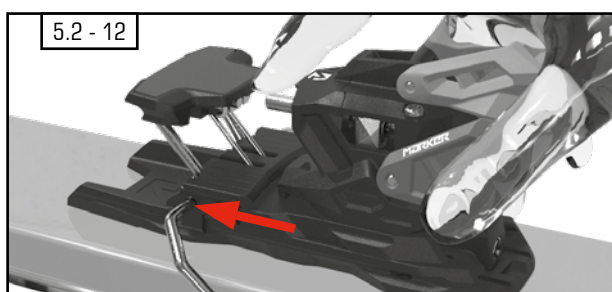


- Check correct installation of the brake: the two latching hooks of the brake must be locked into the recesses of the housing, the brake locking frame must be hooked over the brake slide. (5.2 - 10)

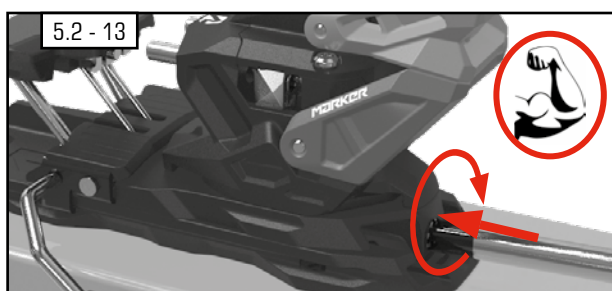


INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops. (5.2 - 11 and 5.2 - 12)

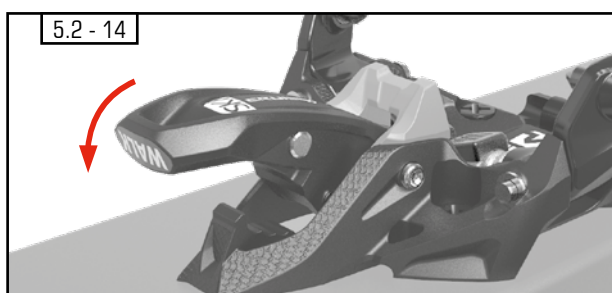


- With strong pressure, screw the heel forward onto the plate by turning the length adjustment screw. (5.2 - 13)

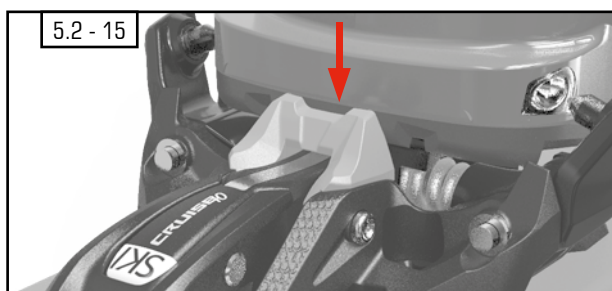


CAUTION !

Screw the heel onto the heel plate by hand ! (5.2 - 13)

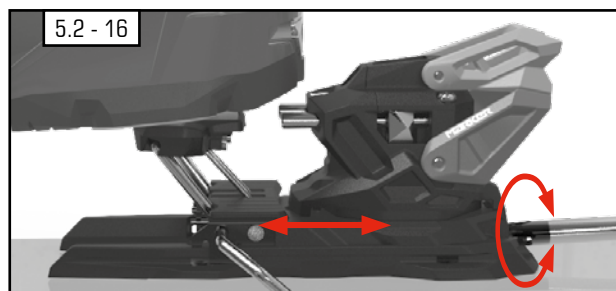


- Open the toe by pressing down the toe opening lever. (5.2 - 14)

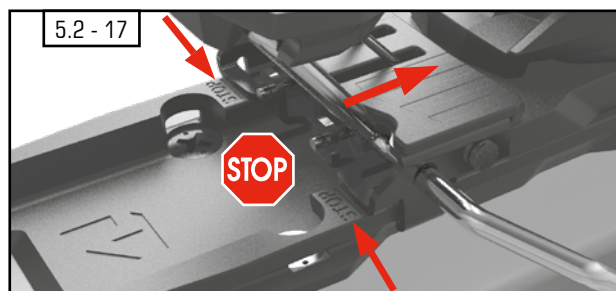


- Position the tip of the ski boot between the retaining pins on the toe. Then press the tip of the boot down and step into the toe. (5.2 - 15)
- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position.

5.2 INSTALLATION OF MARKER CRUISE BINDINGS

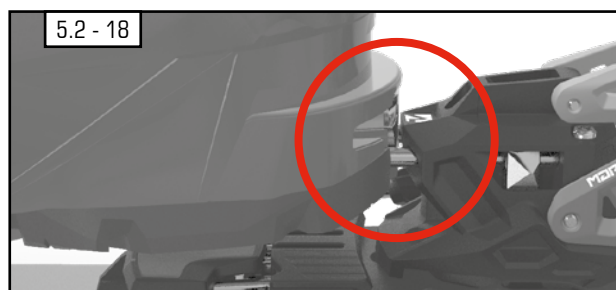


- Attach the heel of the boot to the heel binding.
- Position the heel by turning the length adjustment screw. (5.2 - 16)

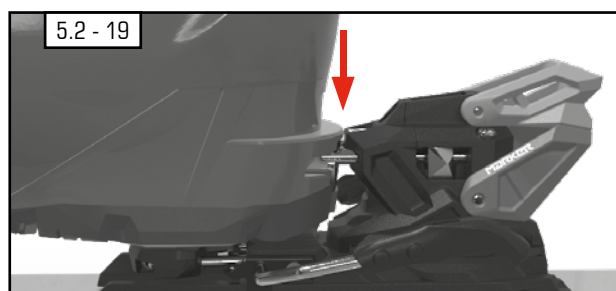


IMPORTANT SAFETY ADVICE !

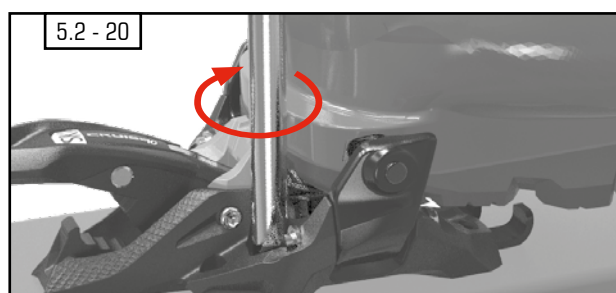
Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (5.2 - 17)



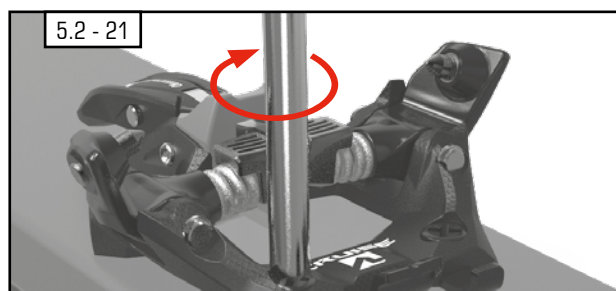
- Check the correct heel position: the boot has to be flush with the heel housing. (5.2 - 18)



- Push the heel of the boot straight down and enter the heel part. (5.2 - 19)

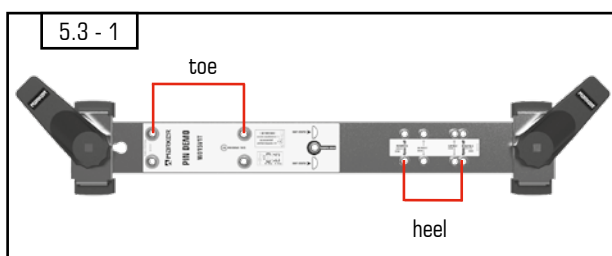
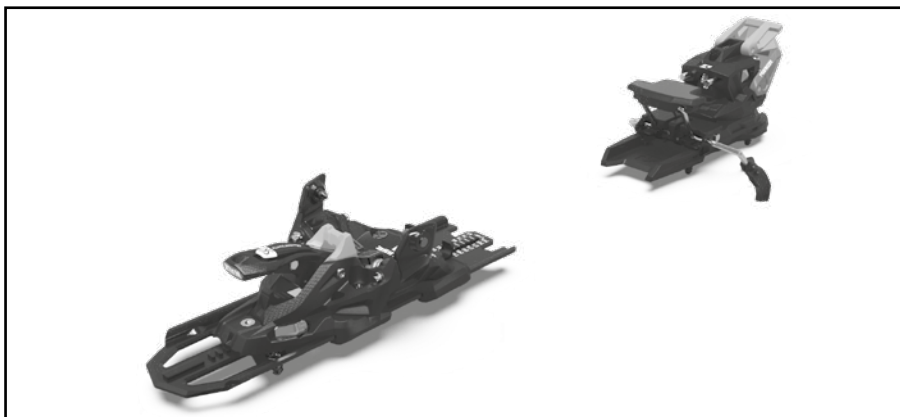


- With the boot in the closed binding tighten the two front toe screws firmly. (5.2 - 20)



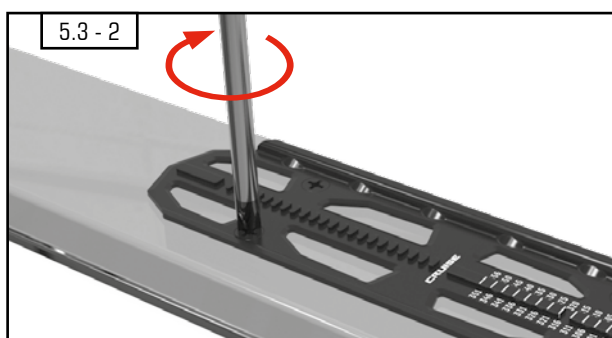
- Remove the ski boot and tighten the two rear toe screws firmly. (5.2 - 21)

5.3 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. (5.3 - 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.

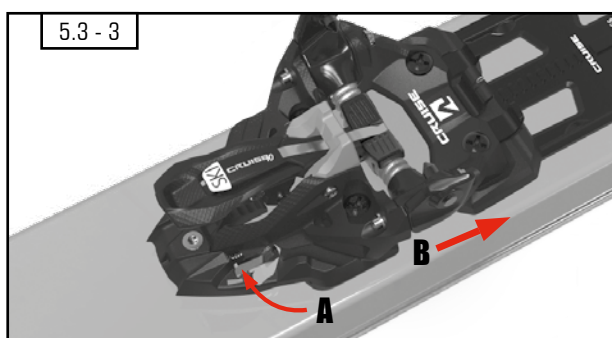


REMARK:

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. (5.3 - 2)



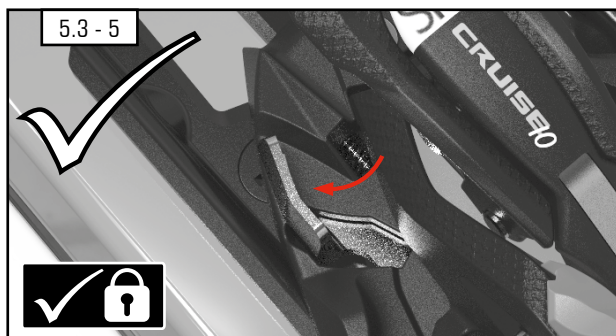
INSTALLING THE TOE:

- Open the locking lever (A) and slide the toe with lever open from the front of the plate backward (B). (5.3 - 3)

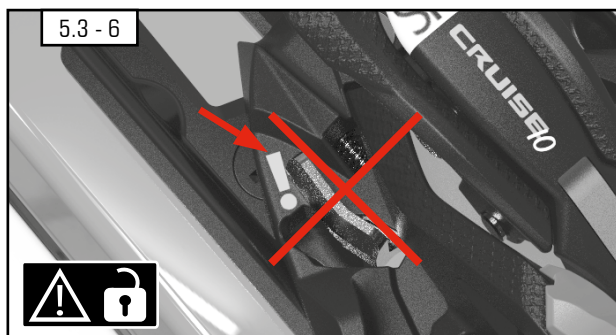


- Slide the toe backward to the correct sole length in accordance with the sole length scale. (5.3 - 4)

5.3 INSTALLATION OF MARKER CRUISE DEMO BINDINGS

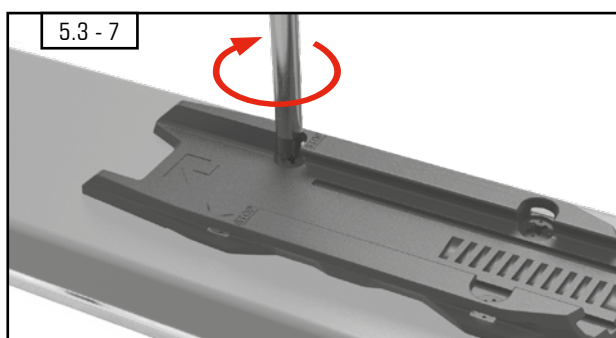


- Close the locking lever. (5.3 - 5)



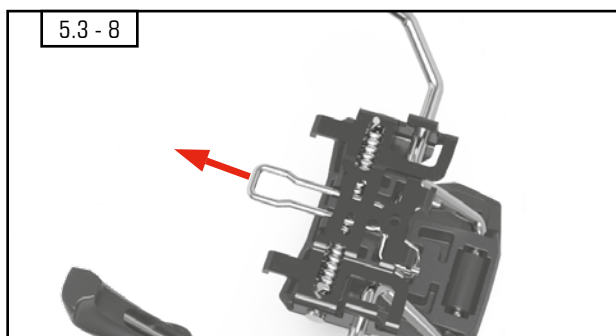
CAUTION !

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 ! (5.3 - 6)



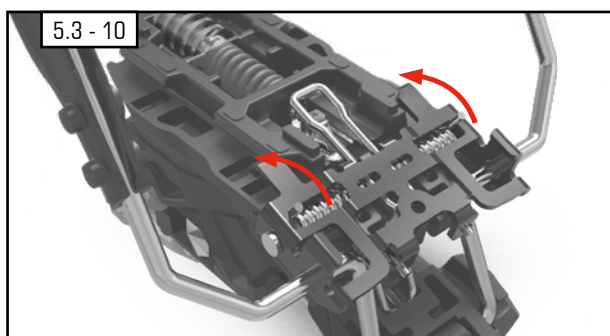
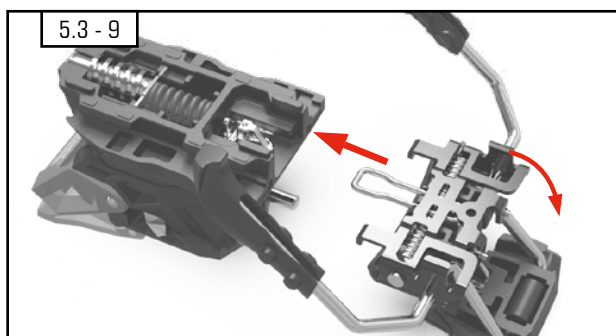
INSTALLING THE HEEL PLATE:

- Install the heel plate with the pre - installed screws in the rear holes.
- Tighten the screws lightly, then firmly. (5.3 - 7)

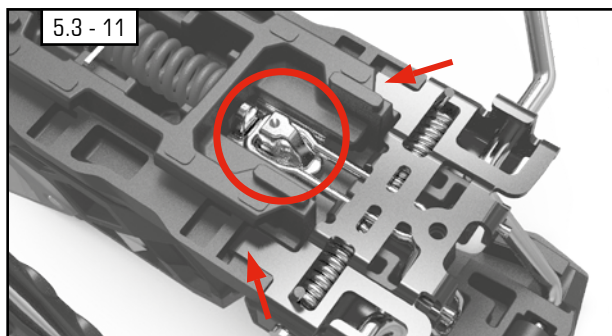


PREASSEMBLING THE HEEL WITH THE BRAKE:

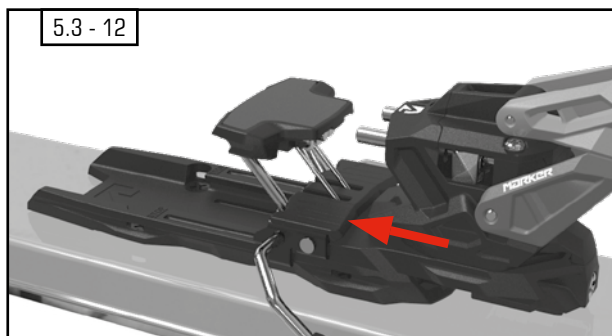
- The brake locking frame must be pulled backwards to the stop (5.3 - 8).
- Tilt the brake slightly, then apply it from the front to the bottom of the heel and hook it in. (5.3 - 9 and 5.3 - 10)



5.3 INSTALLATION OF MARKER CRUISE DEMO BINDINGS

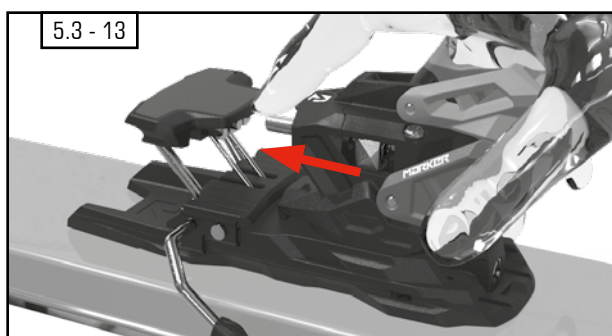


- Check correct installation of the brake: the two latching hooks of the brake must be locked into the recesses of the housing, the brake locking frame must be hooked over the brake slide. (5.3 - 11)

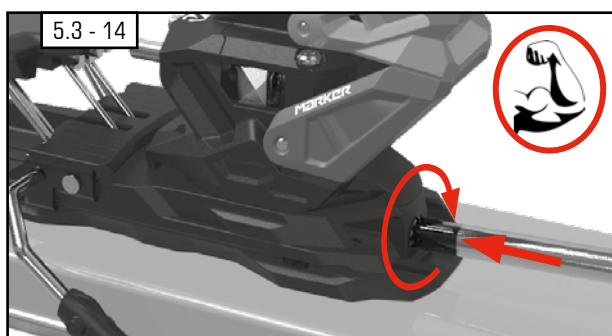


INSTALLING THE HEEL:

- Slide the heel from the rear of the plate forward until it stops. (5.3 - 12 and 5.3 - 13)



- With strong pressure, screw the heel forward onto the plate by turning the length adjustment screw. (5.3 - 14)



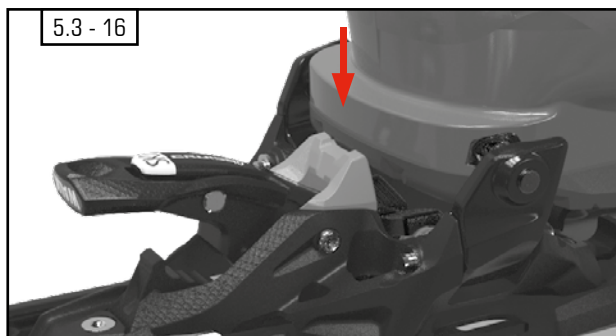
CAUTION !

Screw the heel onto the heel plate by hand ! (5.3 - 14)

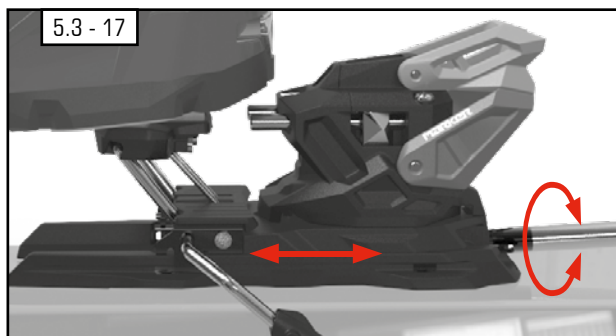


- Open the toe by pressing down the toe opening lever. (5.3 - 15)

5.3 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. (5.3 - 16)



- Attach the heel of the boot to the heel binding.
- Position the heel by turning the length adjustment screw. (5.3 - 17)

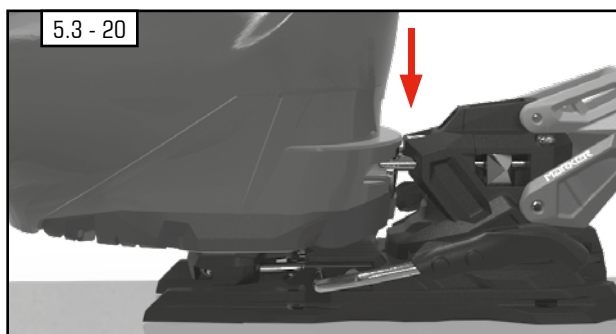


IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (5.3 - 18)



- Check the correct heel position: the boot has to be flush with the heel housing. (5.3 - 19)

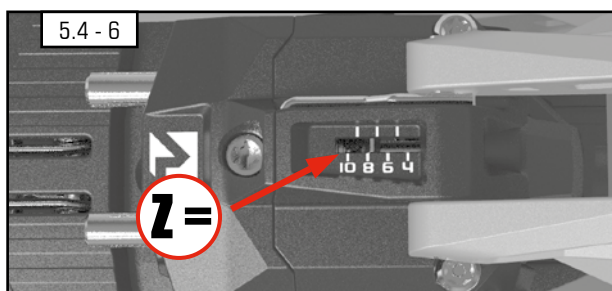
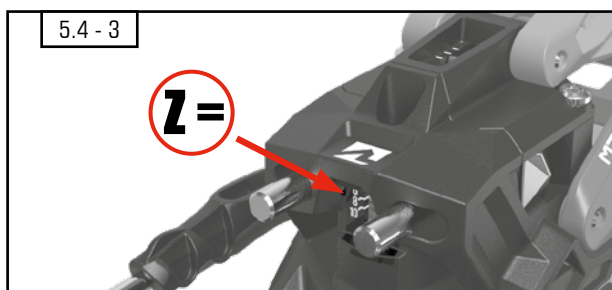
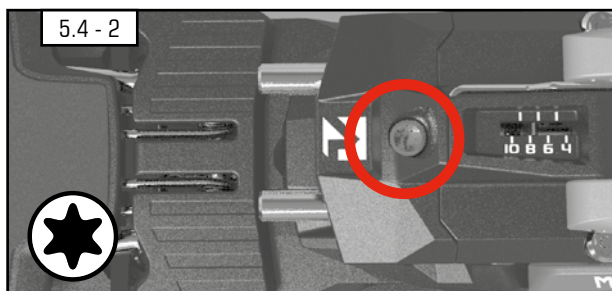
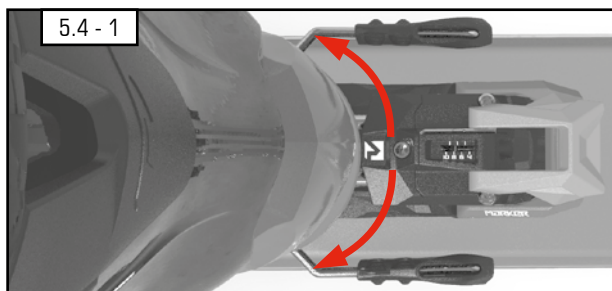


- Push the heel of the boot straight down and enter the heel part. (5.3 - 20)

REMARK:

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

5.4 MARKER CRUISE BINDINGS - INFORMATION FOR BINDING ADJUSTMENT



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:

→ 17.1 - 17.3

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 !



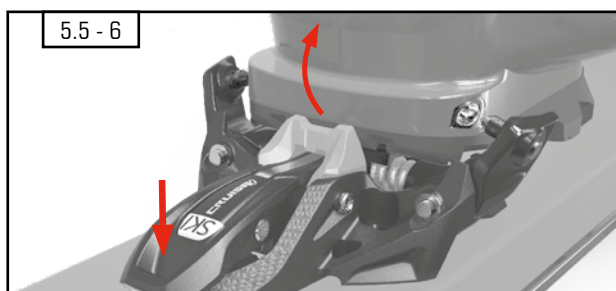
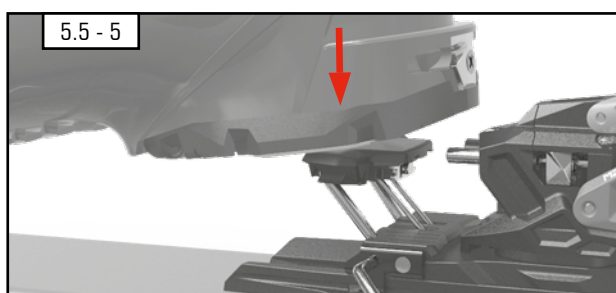
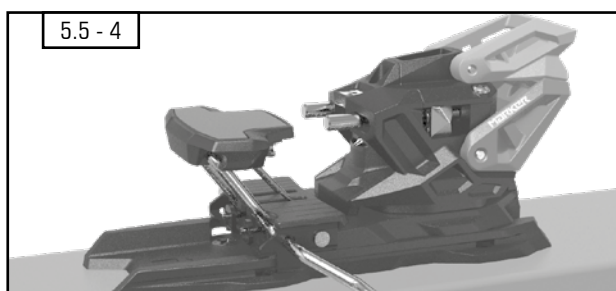
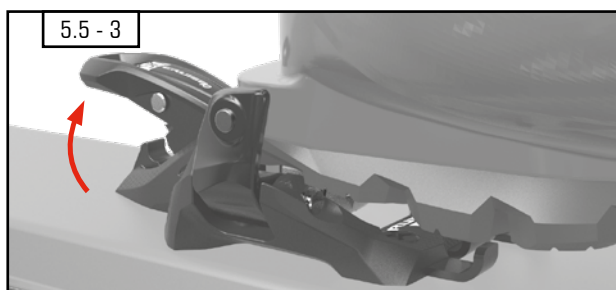
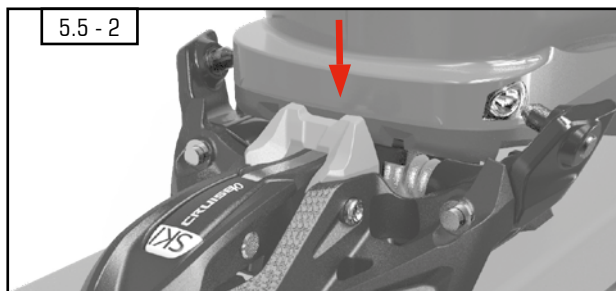
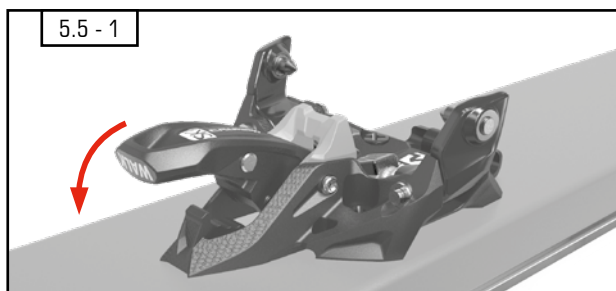
ADJUSTMENT LATERAL RELEASE FORCE: (5.4 - 1)

- The lateral release adjustment screw is located on the top of the heel housing, the climbing aids must be folded back for adjustment (5.4 - 2).
- The lateral release scale is located on the front of the heel housing (5.4 - 3).

ADJUSTMENT VERTICAL RELEASE FORCE: (5.4 - 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. (5.4 - 5)
- The vertical release scale is located on the top of the heel housing (5.4 - 6).

5.5 MARKER CRUISE - INFORMATION FOR THE SKIER



In addition to the system explanations → 20.1 - 20.3 the following instructions must be given to the intended user of a MARKER CRUISE binding:

REMARK:

MARKER ALPINIST 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.

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. (5.5 - 1)
- Position the tip of the ski boot on the toe's step-in aids and between the retaining pins on the toe. (5.5 - 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. (5.5 - 3)
- Move the locked boot back and forth several times to ensure that boot and binding are securely connected.

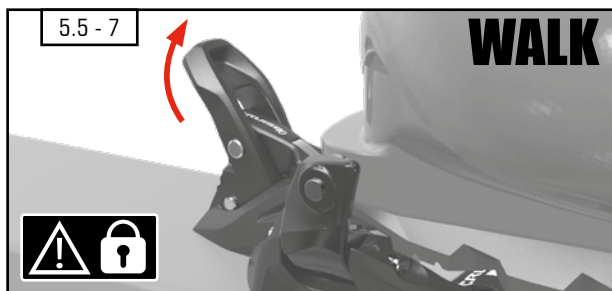
- Ensure that the heel holder is turned to the travel position and the locking bolts in the heel holder face forward. (5.5 - 4)

- Push the heel of the boot straight down and enter the heel part. (5.5 - 5)

STEP OUT (INCLUDING AFTER A FALL IN AN EMERGENCY)

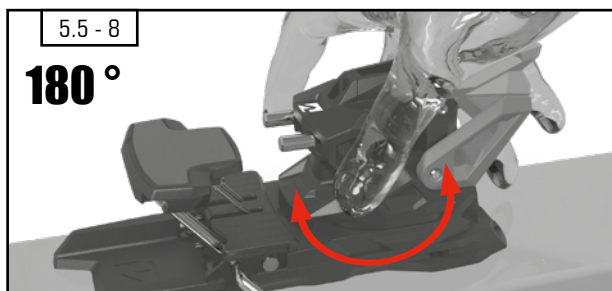
- Press down adjusting lever on the toe with a ski pole, ski, ski boot or your hand. Lift the tip of the ski boot slightly. (5.5 - 6)

5.5 MARKER CRUISE - INFORMATION FOR THE SKIER



CHANGE OVER FROM SKIING TO HIKING POSITION:

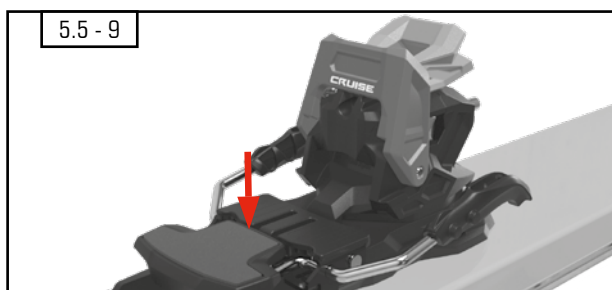
- There is an adjusting lever at the front end of the toe that can be used to choose between the positions for skiing (SKI) and hiking (WALK). To switch from the skiing position to hiking mode in order to walk with the binding, pull this lever upwards. (5.5 - 7)



CAUTION !

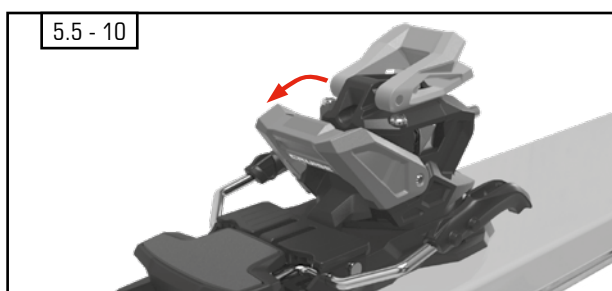
In hiking mode (WALK) the release function is blocked !

- Turn the heel by 180° so that the locking bolts in the heel face towards the end of the ski. (5.5 - 8)
- The brake is engaged by hand by pushing the brake pedal down or by stepping down on the pedal when stepping in. (5.5 - 9)

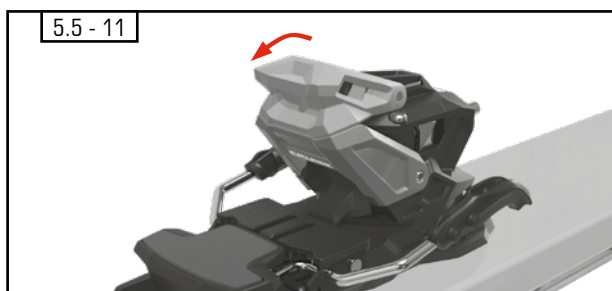


USING THE HIKING AID

- In ascent mode, you can use two hiking aids with different angles. Lower hiking aid position: Fold the hiking aid 1 forward (5.5 - 10). Upper hiking aid position: Fold the hiking aid 2 forward (5.5 - 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 (5.5 - 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 !

REMARK:

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

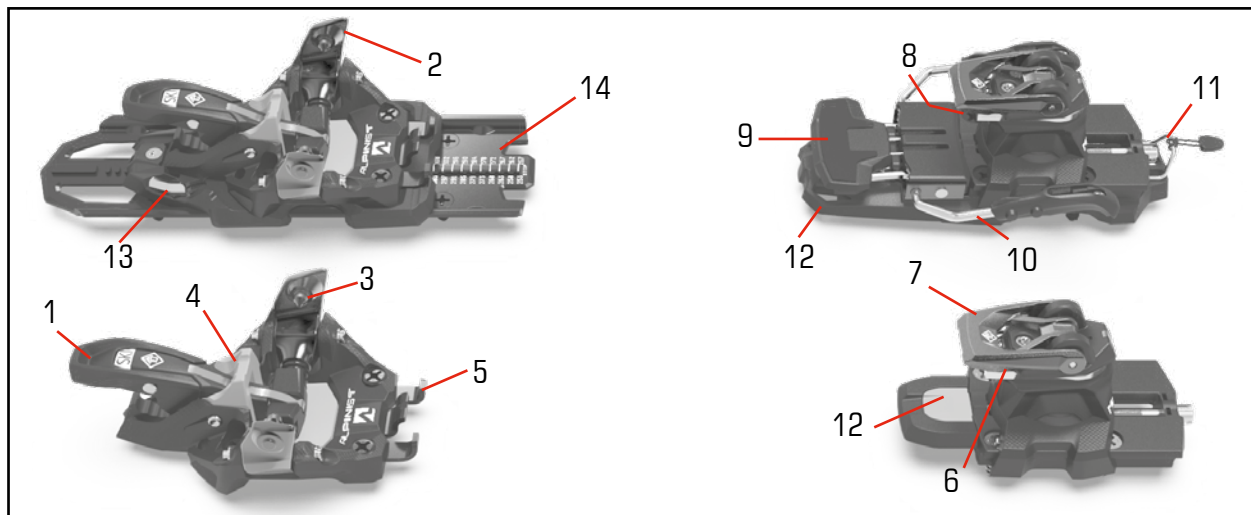
→ 6.7 - 15

NOTE:

Crampons Cruise: → 6.9



6.1 MARKER ALPINIST COMPONENTS & INFORMATION FOR BINDING ADJUSTMENT



MARKER ALPINIST, ALPINIST FREE, ALPINIST LONG TRAVEL & 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

REMARK:

MARKER ALPINIST 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.

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 DIN 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.

INFORMATION FOR BINDING ADJUSTMENT MARKER ALPINIST, ALPINIST FREE, ALPINIST LONG TRAVEL & 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.

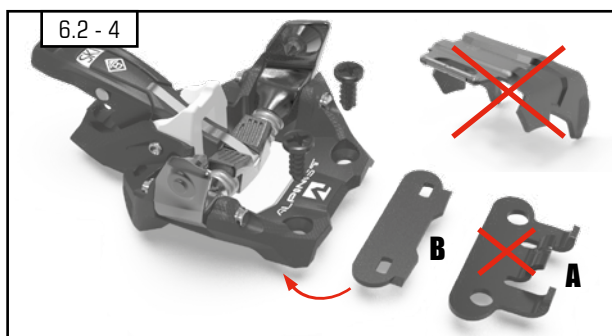
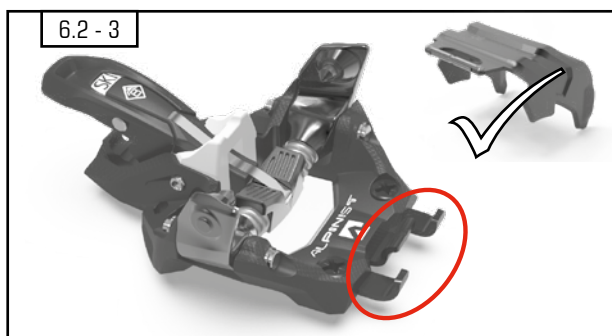
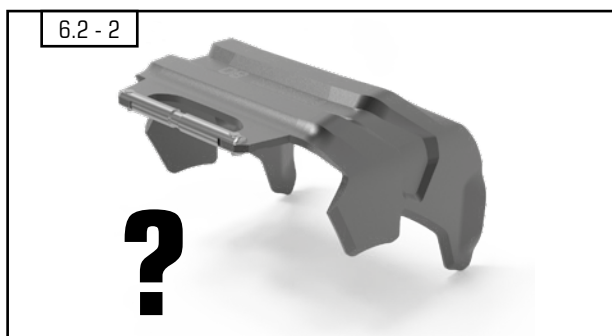
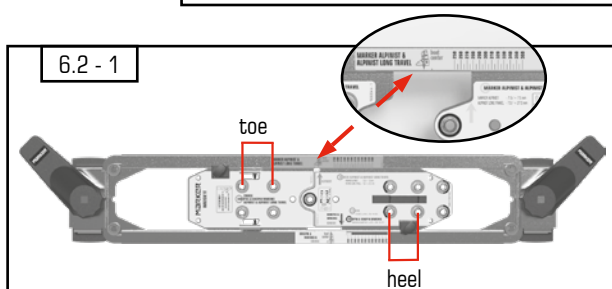
MARKER offers U-bows in three hardness levels (soft/medium/hard). Specific U-bows are installed depending on the binding model. → 6.8

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. → 20.3

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 → 6.8

6.2 INSTALLATION OF MARKER ALPINIST, ALPINIST LONG TRAVEL & LT JUNIOR BINDINGS



DRILLING THE ATTACHMENT HOLES:

IMPORTANT !



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

sole length	tool length settings ALPINIST LONG TRAVEL
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. (6.2 - 1)
- Drill 4 holes for the toe through the front drill bushings.
- Drill 5 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.
Alpinist Junior Long Travel: max. 65 kg



INSTALLING THE TOE:

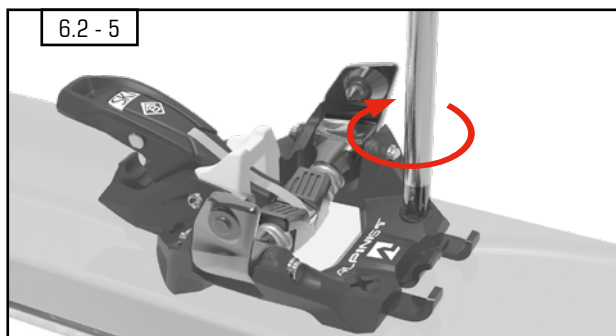
- Determine the requested mounting option: (6.2 - 2)

MOUNTING OPTION A with crampon holder (6.2 - 3)

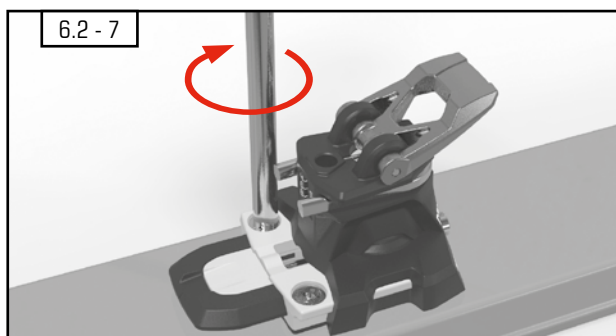
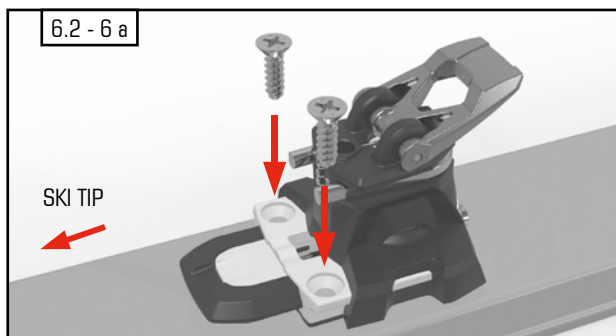
MOUNTING OPTION B without crampon holder (6.2 - 4)

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

6.2 INSTALLATION OF MARKER ALPINIST, ALPINIST LONG TRAVEL & LT JUNIOR BINDINGS



- Install the toe with the pre - installed screws in the holes.
- Tighten all screws lightly, then firmly. (6.2 - 5)



INSTALLING THE HEEL:

- Install the heel with the heel platform facing forward to the rear holes. Insert the two front screws. (6.2 - 6 a)

INSTALLING THE HEEL WITH BRAKE:

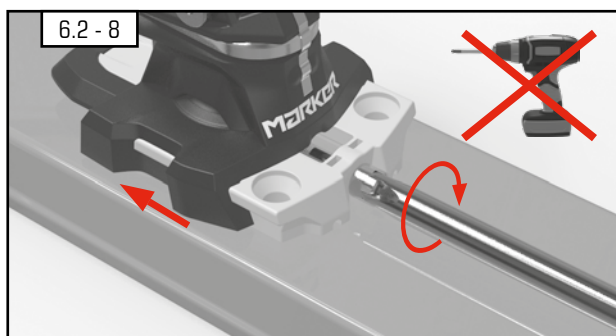
- Mount the heel from top to the brake. (6.2 - 6 b) Install the heel with the brake pedal facing forward to the rear holes. Insert the two front screws.

NOTE:

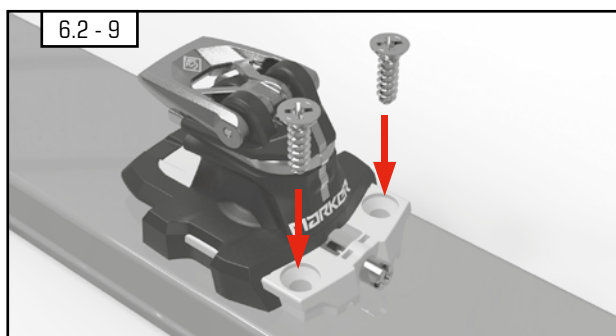
When mounting the binding with brake make sure that you fit the enclosed stickers to the ski. (→ 6.6 - 3)

NOTE:

Locking / unlocking of the brake and security advices:
see page → 65 "Information for the skier"



- Tighten the screws lightly, then firmly. (6.2 - 7)



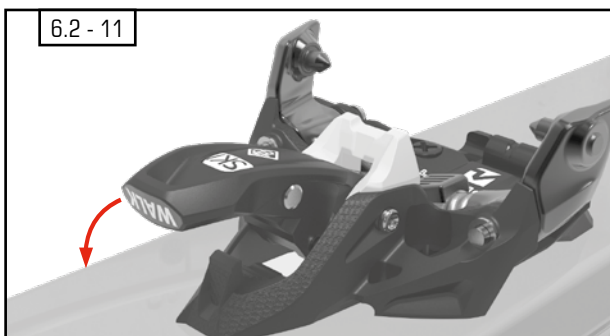
- Screw the heel forward by turning the length adjustment screw until the rear screw holes are accessible. (6.2 - 8)

- Insert the two rear screws. (6.2 - 9)

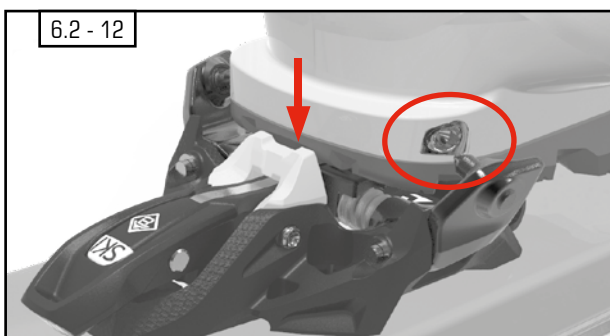
6.2 INSTALLATION OF MARKER ALPINIST, ALPINIST LONG TRAVEL & LT JUNIOR BINDINGS



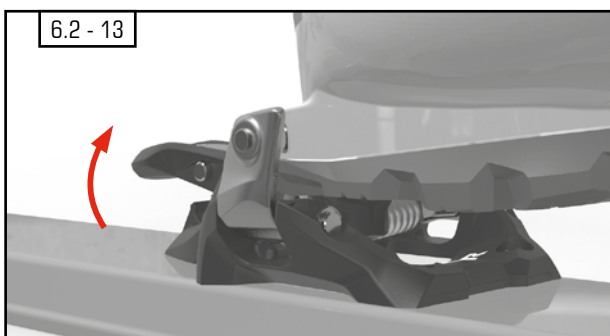
- Tighten the screws lightly, then firmly. (6.2 - 10)



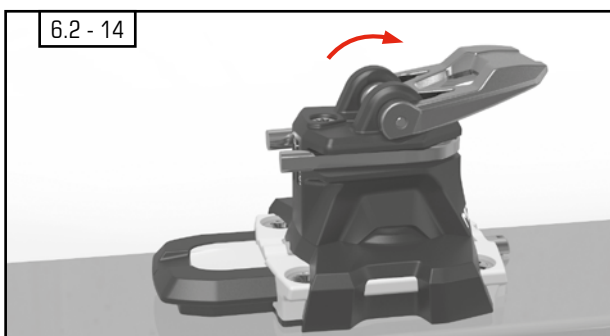
- Open the toe by pressing down the toe opening lever. (6.2 - 11)



- 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. (6.2 - 12)

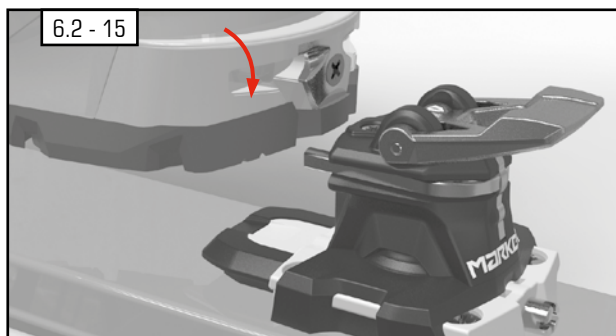


- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (6.2 - 13)



- Fold the hiking aid backwards. (6.2 - 14)

6.2 INSTALLATION OF MARKER ALPINIST, ALPINIST LONG TRAVEL & LT JUNIOR BINDINGS



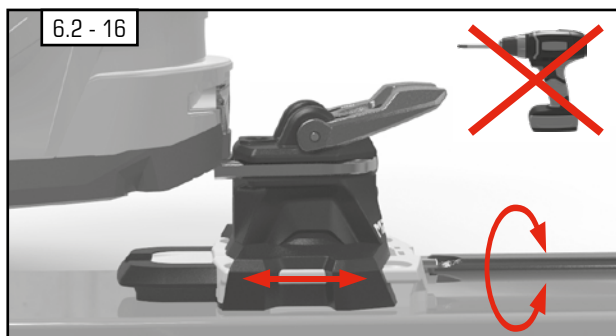
- Attach the heel of the boot to the heel binding. (6.2 - 15)
- Position the heel by turning the length adjustment screw. (6.2 - 16)
- Check the correct heel position: the boot has to be flush with the heel housing. (6.2 - 17)



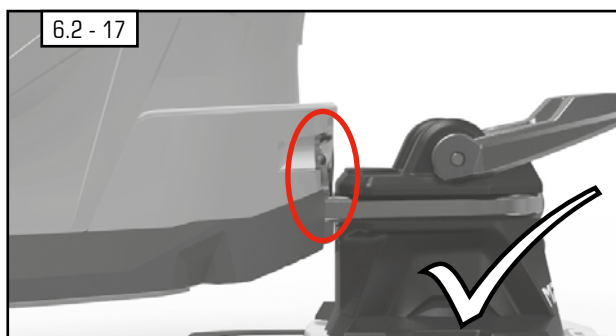
IMPORTANT !

For the adjustment of the lateral heel release force a Torx wrench TX 20 is needed ! (6.2 - 18)

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



- Adjust the lateral release force. (6.2 - 19)



REMARK:

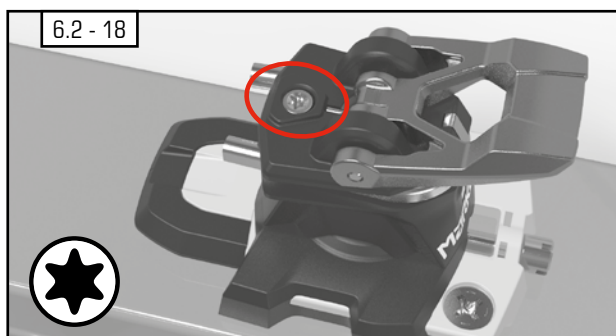
MARKER ALPINIST & ALPINIST LONG TRAVEL ski bindings are not TÜV-certified and therefore do not meet the relevant standards, in particular DIN/ISO 13992. The product meets the current technical requirements using the latest technology.

RELEASE VALUE SELECTION AND ADJUSTMENT:

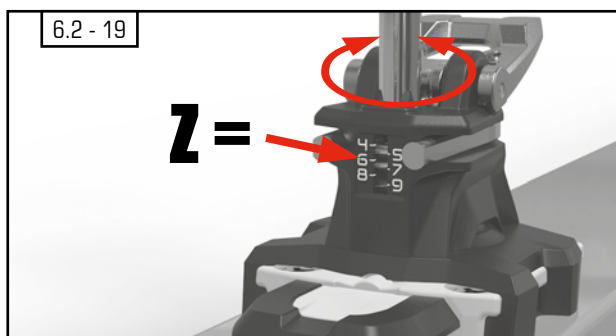
- Following the correct boot-to-binding adjustment, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3



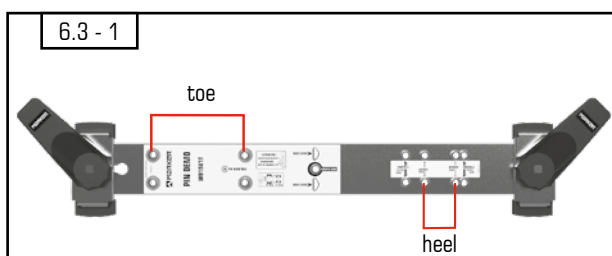
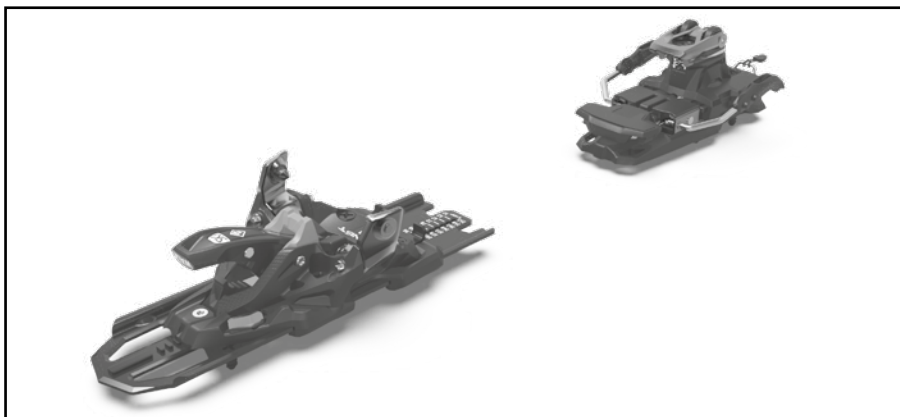
CAUTION ! The lateral release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 20.3



CAUTION !

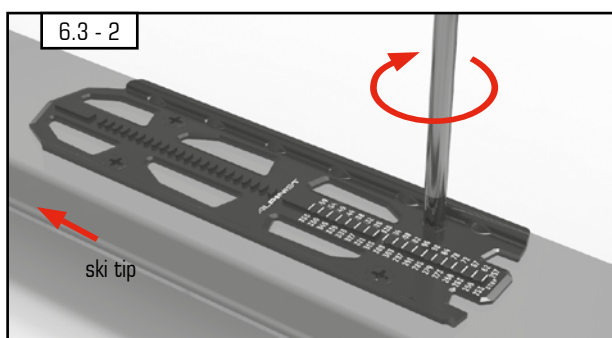
Fine-adjusting the release value for vertical release is not possible! The value can only be determined roughly by selecting the matching U-bow. → see page 47

6.3 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. (6.3 - 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.



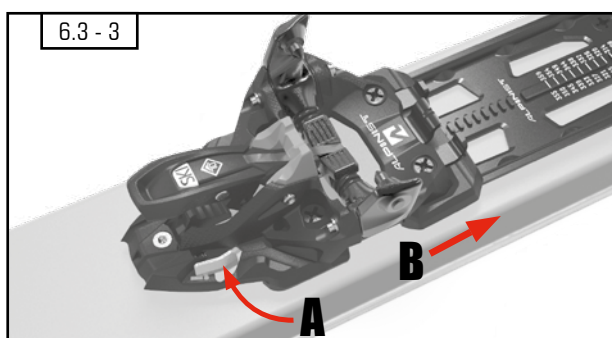
REMARK:

See DRILLING INSTRUCTIONS → 3.2



IMPORTANT !

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

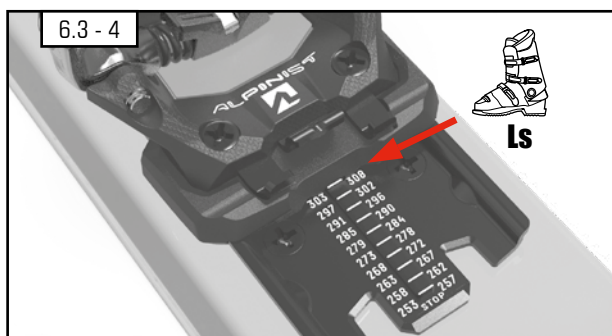


INSTALLING THE TOE PLATE:

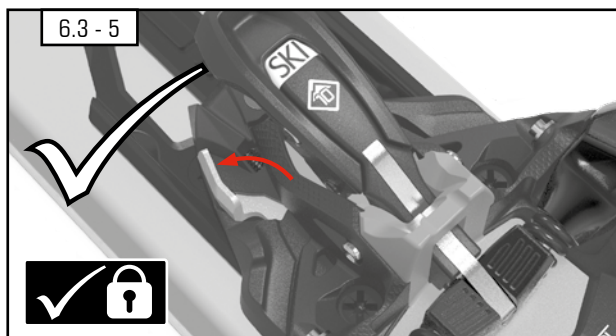
- Place the toe plate onto the ski.
- Insert the enclosed screws. Tighten the screws lightly, then firmly. (6.3 - 2)

INSTALLING THE TOE:

- Open the locking lever (A) and slide the toe with lever open from the front of the plate backward (B). (6.3 - 3)
- Slide the toe backward to the correct sole length in accordance with the sole length scale. (6.3 - 4)



6.3 INSTALLATION OF MARKER ALPINIST DEMO BINDINGS

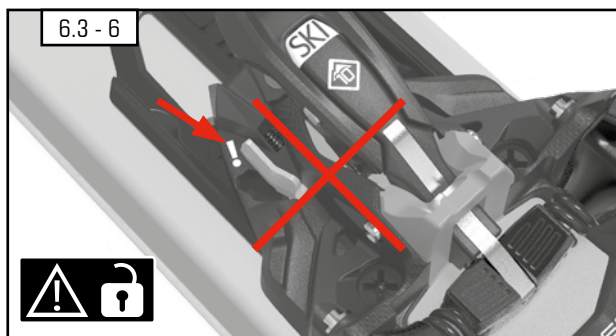


- Close the locking lever. (6.3 - 5)



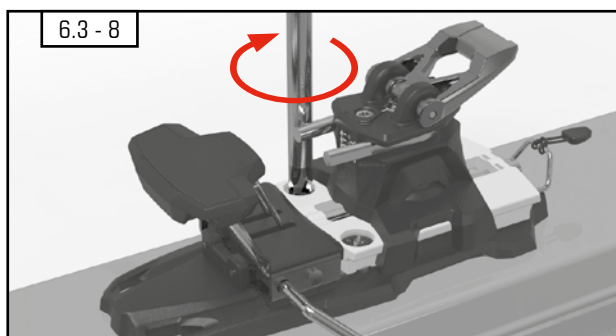
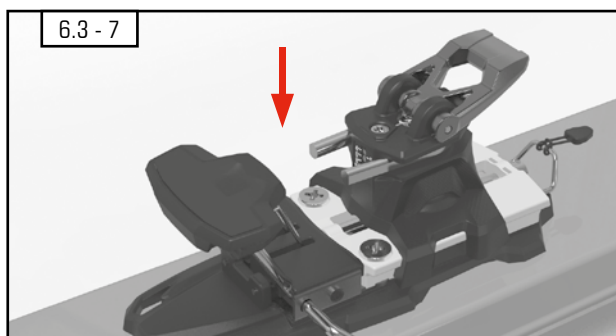
CAUTION !

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 ! (6.3 - 6)

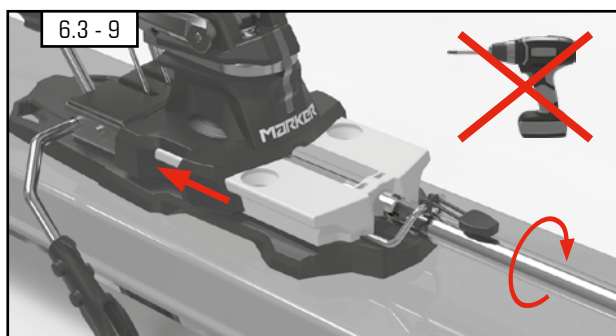


INSTALLING THE HEEL:

- Install the heel to the rear holes. (6.3 - 7)

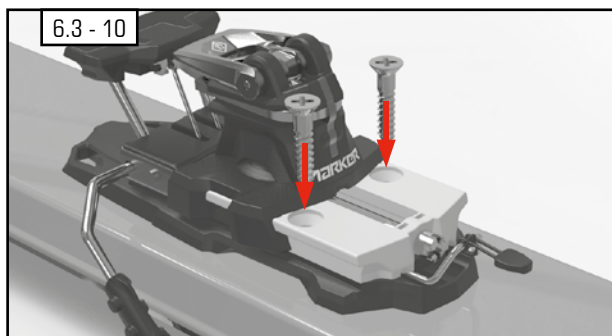


- Tighten the 2 front screws lightly, then firmly. (6.3 - 8)

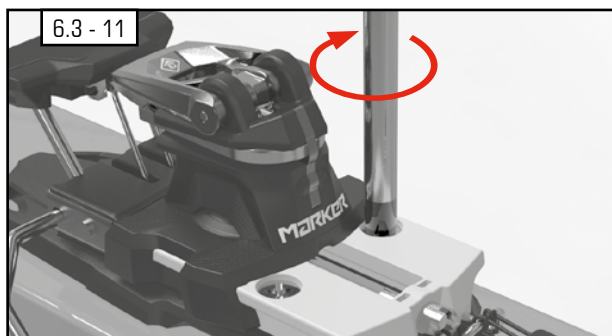


- Screw the heel forward by turning the length adjustment screw until the rear screw holes are accessible. (6.3 - 9)

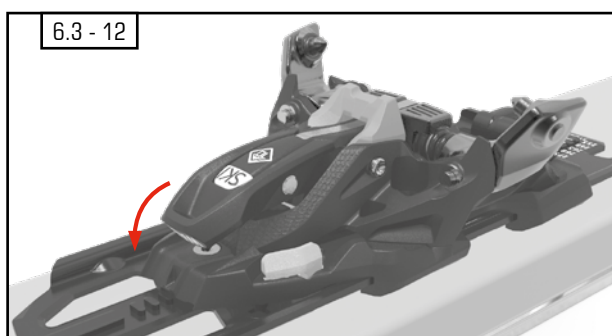
6.3 INSTALLATION OF MARKER ALPINIST DEMO BINDINGS



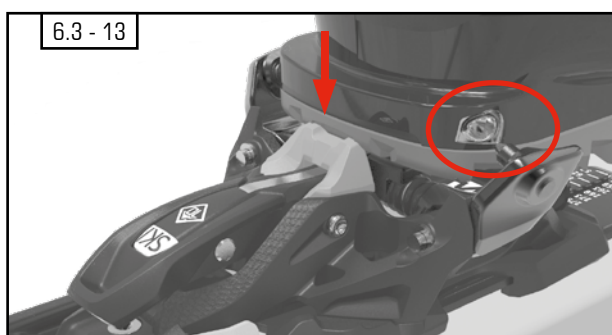
- Insert the two rear screws. (6.3 - 10)



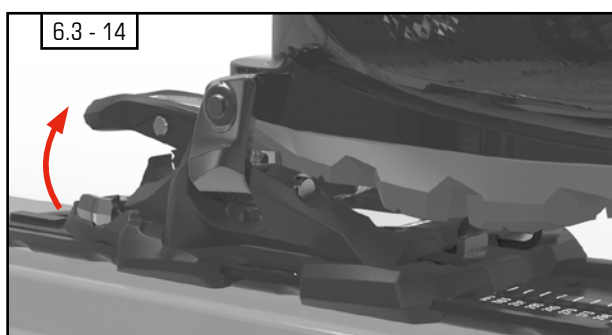
- Tighten the screws lightly, then firmly. (6.3 - 11)



- Open the toe by pressing down the toe opening lever. (6.3 - 12)

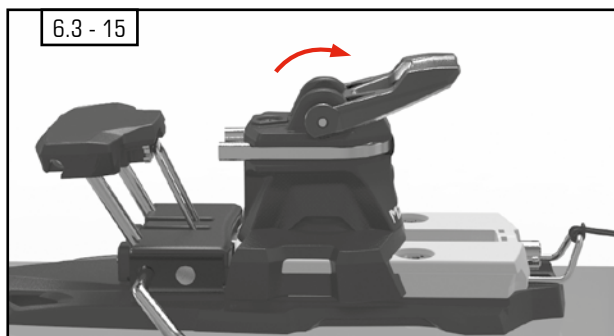


- Position the tip of the ski boot between the retaining pins on the toe. Then press the tip of the boot down and step into the toe. (6.3 - 13)

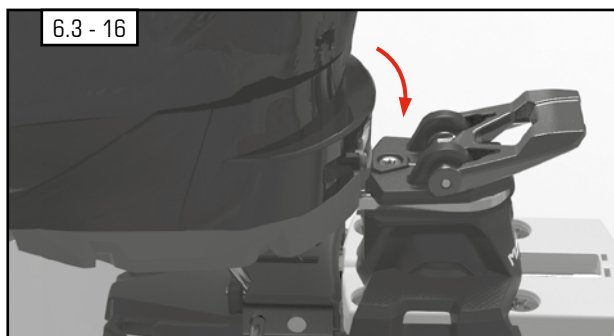


- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (6.3 - 14)

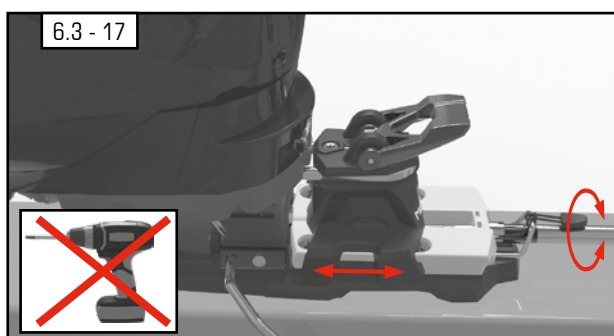
6.3 INSTALLATION OF MARKER ALPINIST DEMO BINDINGS



- Fold the hiking aid backwards. (6.3 - 15)



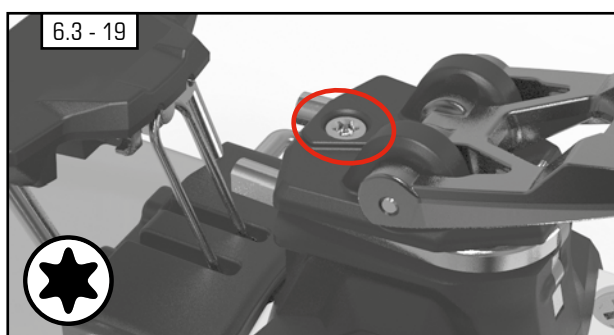
- Attach the heel of the boot to the heel binding. (6.3 - 16)



- Position the heel by turning the length adjustment screw. (6.3 - 17)



- Check the correct heel position: the boot has to be flush with the heel housing. (6.3 - 18)



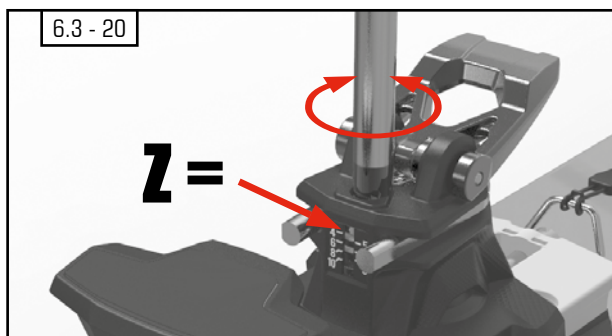
IMPORTANT !

For the adjustment of the lateral heel release force a Torx wrench TX 20 is needed ! (6.3 - 19)

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



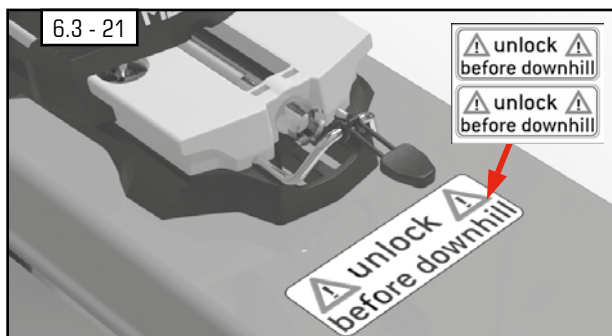
6.3 INSTALLATION OF MARKER ALPINIST DEMO BINDINGS



- Adjust the lateral release force. (6.3 - 20)

REMARK:

MARKER ALPINIST 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:

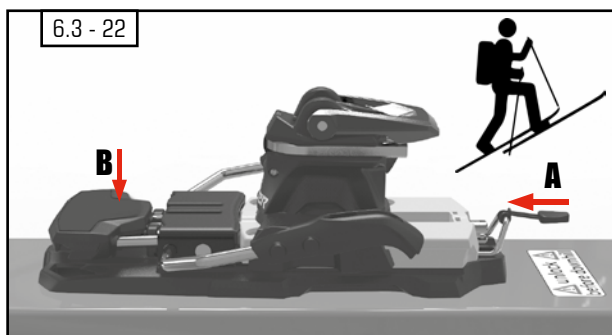
- Following the correct boot-to-binding adjustment, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

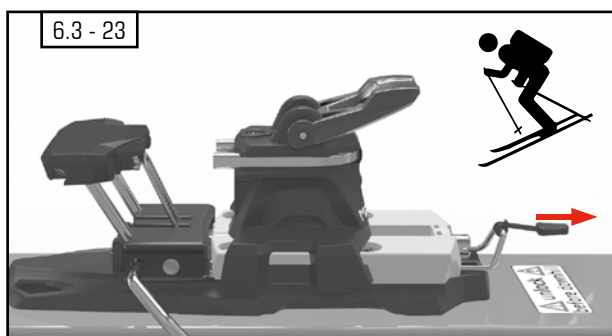
→ 17.1 - 17.3



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. → 20.3



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 47



NOTE:

When mounting the binding make sure that you fit the enclosed stickers (brake) to the ski. (6.3 - 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. (6.3 - 22)

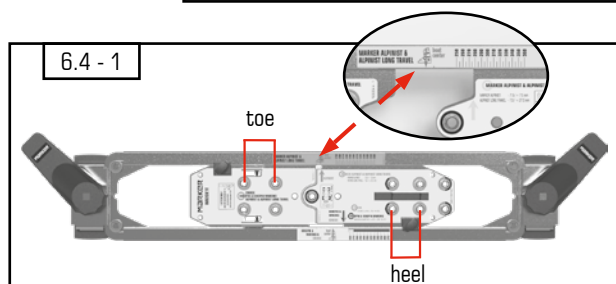


- Changing the brake over from ascent to descent position: To disengage the brake, push the brake lever backward until you feel it lock in place. (6.3 - 23)

NOTE:

When mounting the binding make sure that you fit the enclosed stickers (toe) to the ski. (6.3 - 24)

6.4 INSTALLATION OF MARKER ALPINIST FREE BINDINGS



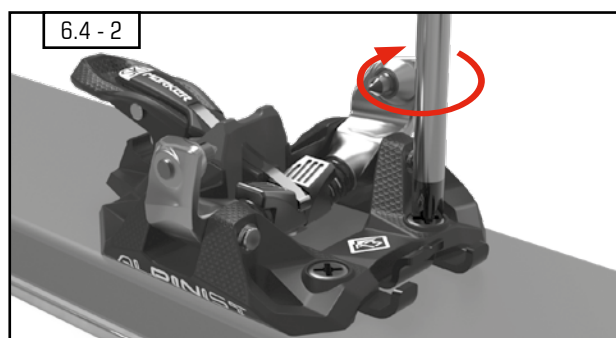
DRILLING THE ATTACHMENT HOLES:

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. (6.4 - 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 !

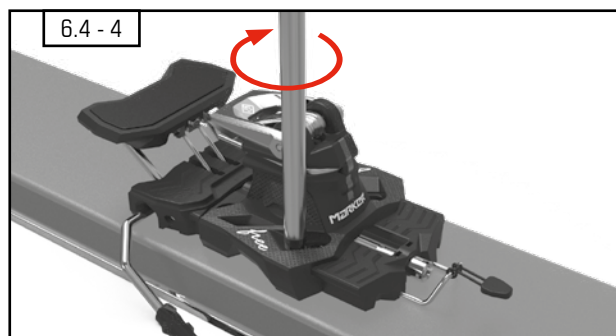
The total load of 110 kg for the binding system must not be exceeded.



- Install the toe with the pre - installed screws in the holes.
- Tighten all screws lightly, then firmly. (6.4 - 2)

INSTALLING THE HEEL:

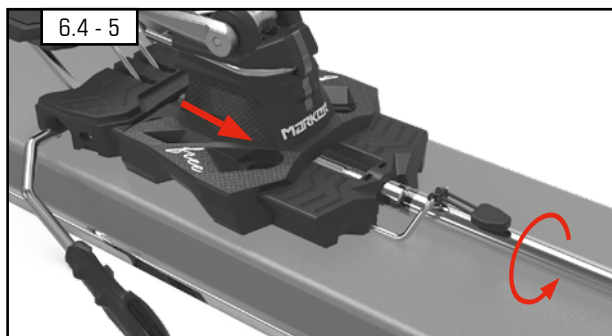
- Install the heel with the heel platform facing forward to the rear holes.



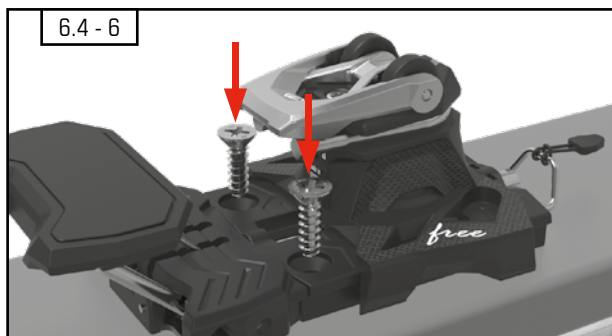
INSTALLING THE HEEL WITH PREMOUNTED BRAKE:

- Mount the heel from top to the brake. (6.4 - 3)
- Install the heel with the pre - installed screws in the holes. Tighten the two rear screws lightly, then firmly. (6.4 - 4)

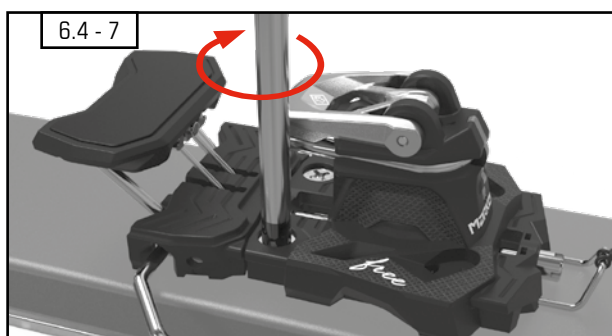
6.4 INSTALLATION OF MARKER ALPINIST FREE BINDINGS



- Screw the heel backward by turning the length adjustment screw until the front screw holes are accessible. (6.4 - 5)



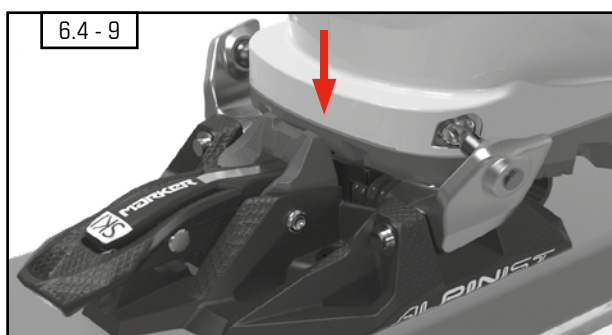
- Insert the two front screws. (6.4 - 6)



- Tighten the screws lightly, then firmly. (6.4 - 7)

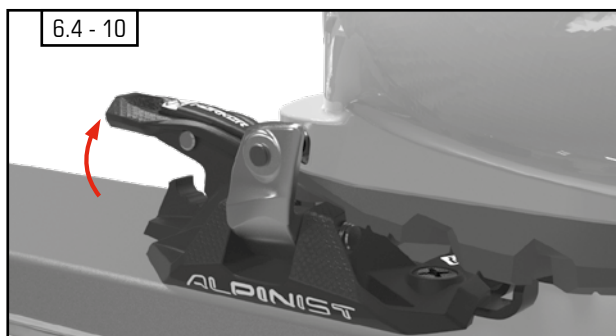


- Open the toe by pressing down the toe opening lever. (6.4 - 8)

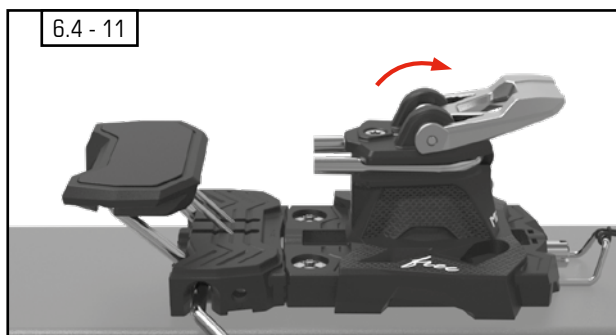


- Position the tip of the ski boot between the retaining pins on the toe. Then press the tip of the boot down and step into the toe. (6.4 - 9)

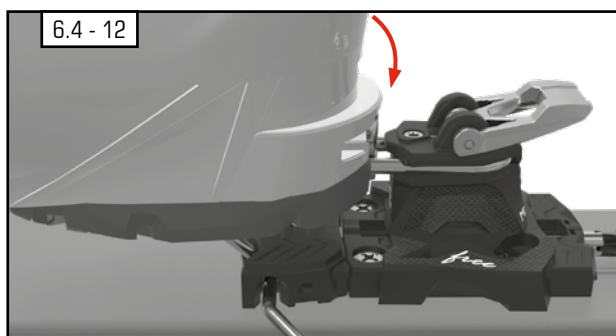
6.4 INSTALLATION OF MARKER ALPINIST FREE BINDINGS



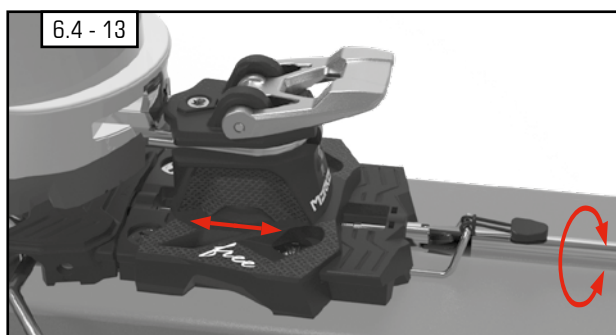
- The pins must be locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (6.4 - 10)



- Fold the hiking aid backwards. (6.4 - 11)



- Attach the heel of the boot to the heel binding. (6.4 - 12)



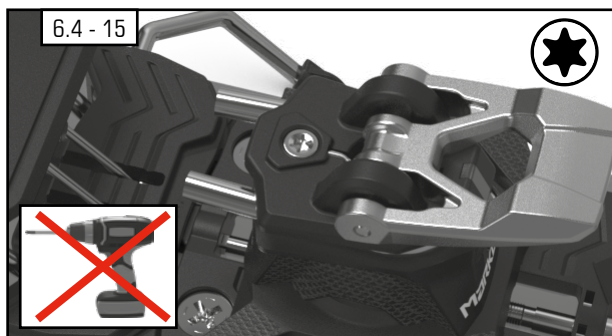
- Position the heel by turning the length adjustment screw. (6.4 - 13)



- Check the correct heel position: the boot has to be flush with the heel housing. (6.4 - 14)

NOTE: see PERFORMANCE BOOSTER → 6.5

6.4 INSTALLATION OF MARKER ALPINIST FREE BINDINGS



IMPORTANT !

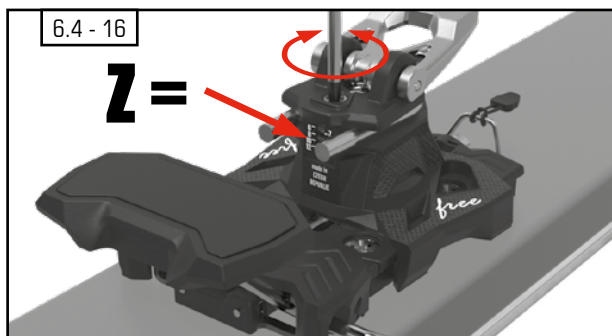
For the adjustment of the lateral heel release force a Torx wrench TX 20 is needed ! (6.4 - 15)

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

- Adjust the lateral release force. (6.4 - 16)

REMARK:

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:

→ 17.1 - 17.3



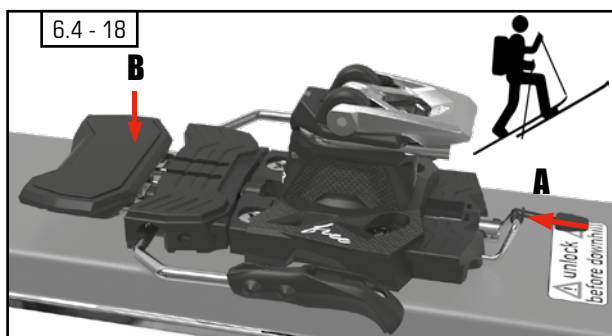
CAUTION !

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. → 20.3



CAUTION !

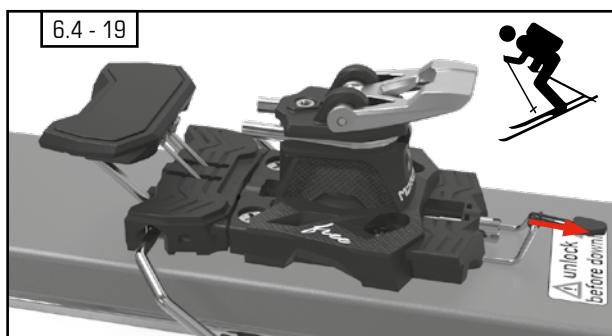
Fine-adjusting the release value for vertical release is not possible! The value can only be determined roughly by selecting the matching U-bow. → see page 47



NOTE:

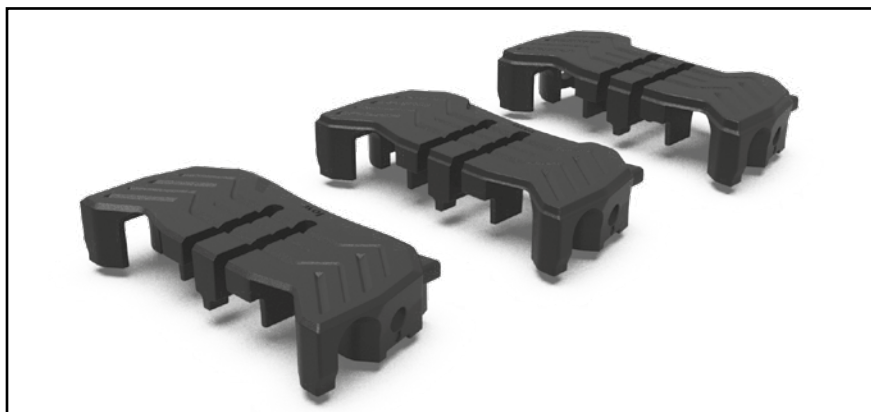
When mounting the binding make sure that you fit the enclosed stickers (brake) to the ski. (6.4 - 17)

- 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 down or by stepping down on the pedal when stepping in. (6.4 - 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. (6.4 - 19)

6.5 MARKER ALPINIST FREE PERFORMANCE BOOSTER



ALPINIST FREE PERFORMANCE BOOSTER

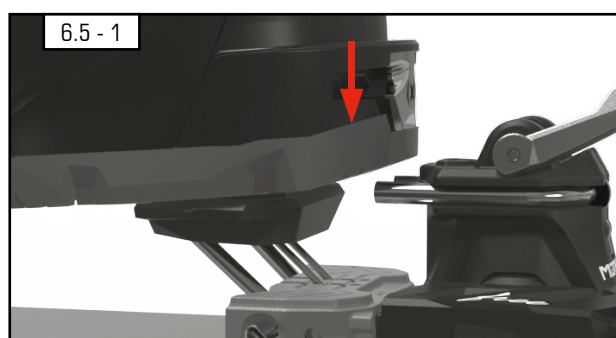


For optimal adjustment of the binding to the respective boot, the models Alpinist Free (with brake) are equipped with heel platforms with different stand heights.

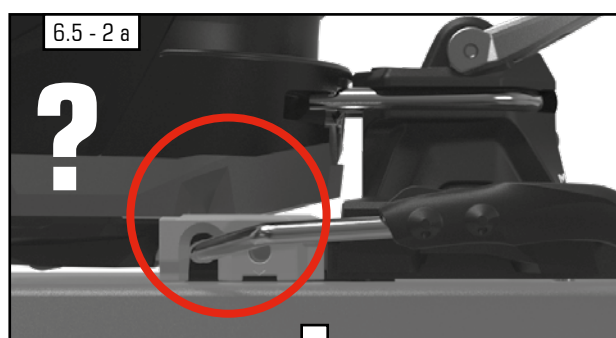
NOTE:

The ALPINIST FREE Performance Booster is also available as an accessory: Art. Nr.: W041Y1B

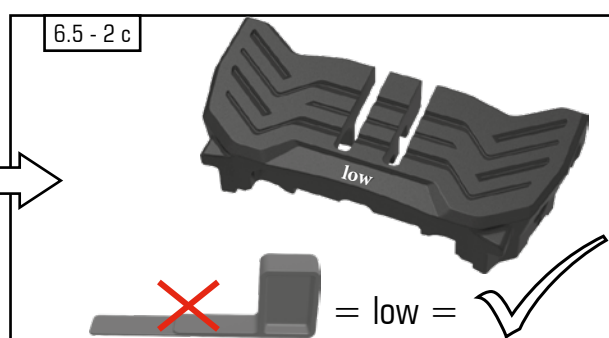
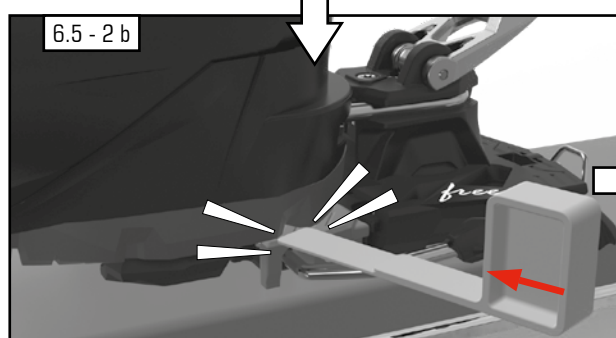
INSTALLATION OF THE ALPINIST FREE PERFORMANCE BOOSTER



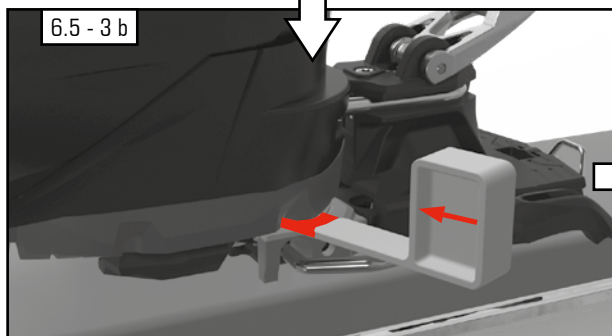
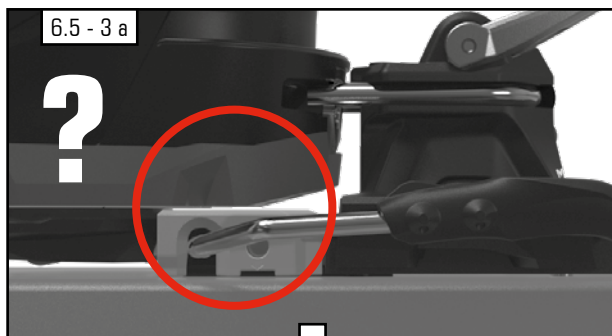
- Push the heel of the boot straight down and enter the heel part. (6.5 - 1)



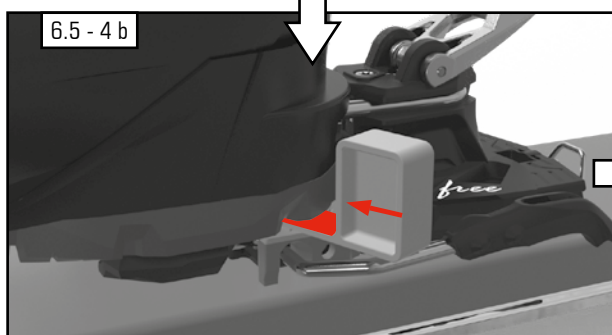
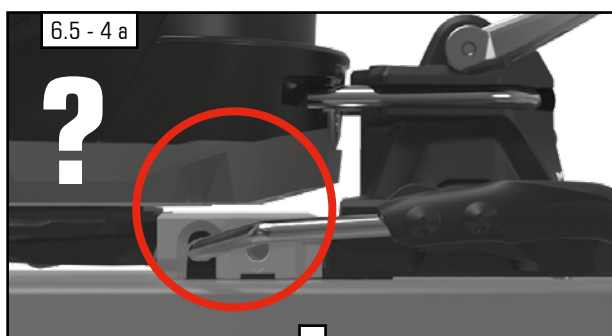
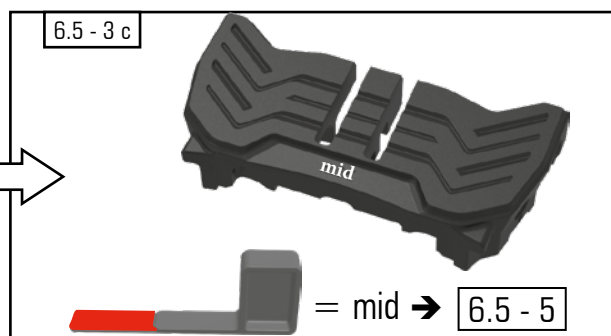
- If there is no visible gap between the boot sole and the brake platform and the gauge cannot be pushed between the sole and the platform, the distance is correct. The (pre-assembled) brake platform "low" provides the appropriate stand height. (6.5 - 2 a - c)



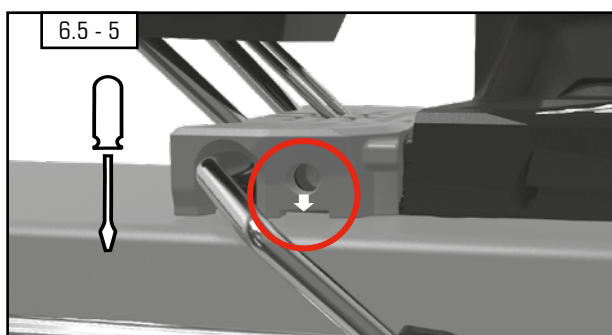
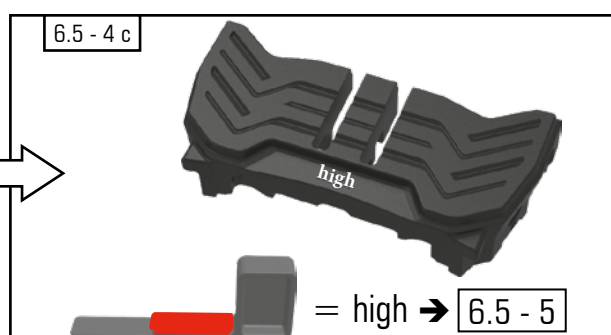
6.5 MARKER ALPINIST FREE PERFORMANCE BOOSTER



- 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. (6.5 - 3 a - c)



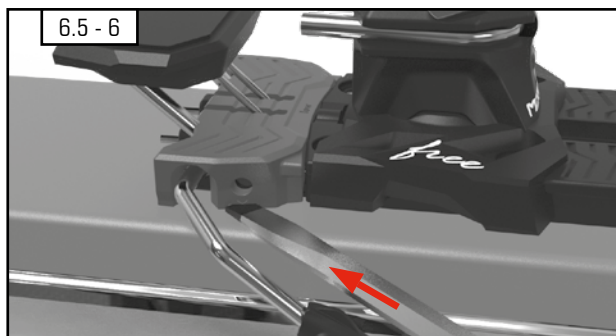
- If there is a visible gap of approx. 2 mm between the sole and the heel platform and the gauge can be pushed between the sole and the platform until the rear stop, the platform should be replaced, the heel platform "high" gives the appropriate stand height. (6.5 - 4 a - c)



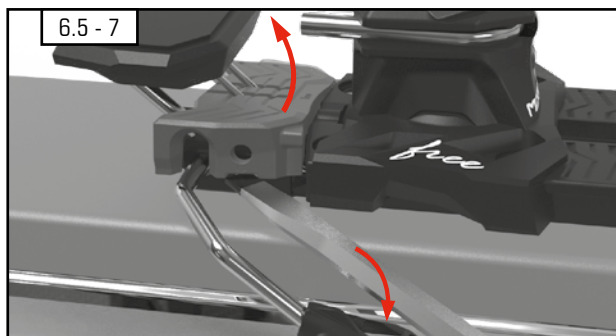
REPLACING THE HEEL PLATFORM

- 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. (6.5 - 5)

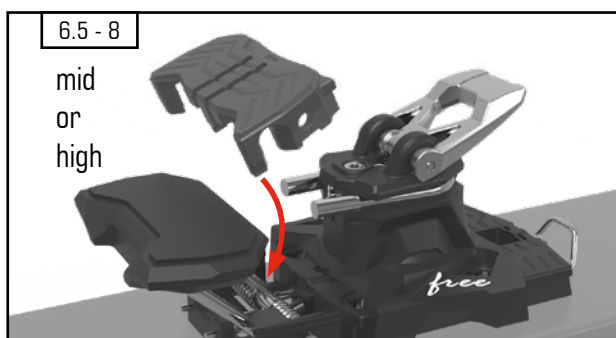
6.5 MARKER ALPINIST FREE PERFORMANCE BOOSTER



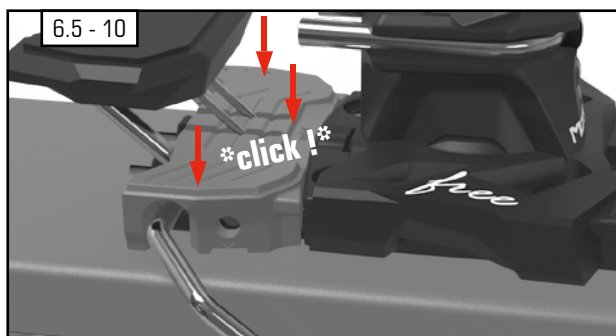
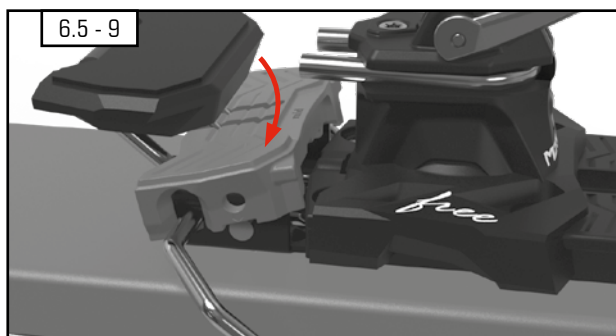
- Insert the screwdriver carefully into this cutout and unlock the connection.



- Lift the heel platform back/up off the brake. (6.5 - 6 & 6.5 - 7)

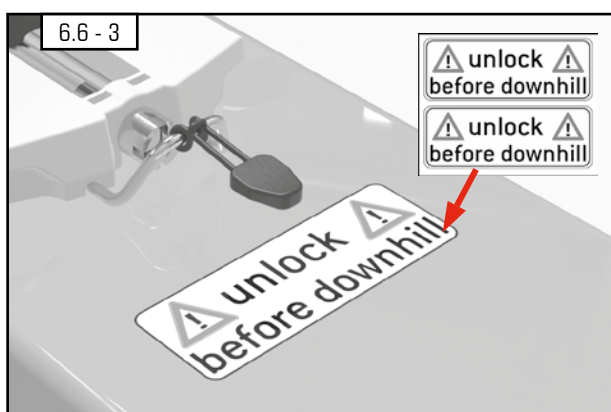
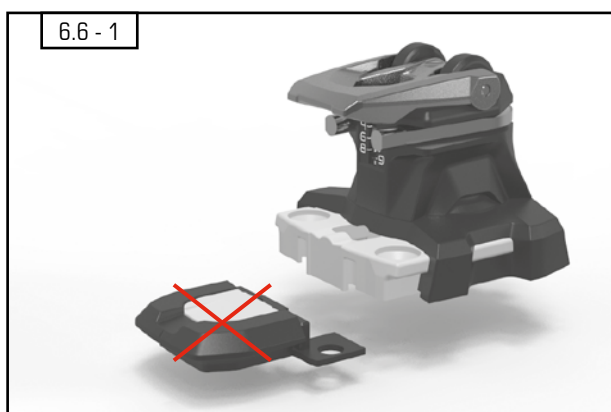


- Place the replacement platform "mid" or "high" onto the brake from the rear/top. (6.5 - 8 & 6.5 - 9)



- Press the heel platform downwards until it snaps noticeably into place. (6.5 - 10)

6.6 MARKER ALPINIST - BRAKES



SKI BRAKES:

- MARKER offers ski brakes with different widths for the binding models MARKER ALPINIST, ALPINIST FREE & ALPINIST LONG TRAVEL. The MARKER 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 LONG TRAVEL & DEMO brake; 90 mm

W035W1B MARKER ALPINIST LONG TRAVEL & 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. (6.6 - 1)
- Mount the heel from top to the brake. (6.6 - 2)
- The further installation of the binding has to be carried out as described in chapter → **6.2 / 6.4**.

NOTE:

When mounting the binding make sure that you fit the enclosed stickers to the ski. (6.6 - 3)

NOTE:

Locking / unlocking of the brake and security advices:
see page → **67 "Information for the skier"**

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



In addition to the system explanations → 20.1 - 20.3 the following instructions must be given to the intended user of a MARKER ALPINIST / ALPINIST FREE / ALPINIST LONG TRAVEL / ALPINIST DEMO binding:

NOTE:

The total load of 110 kg for the binding system must not be exceeded. (6.7 - 1) Alpinist Junior Long Travel: max. 65 kg

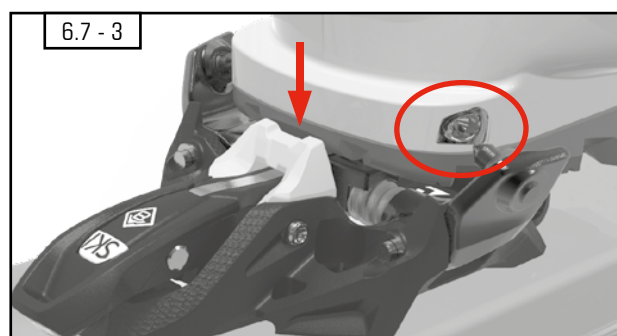
REMARK:

MARKER ALPINIST 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.

However, no binding is able to release under all circumstances and conditions where release may prevent injuries and bindings are not intended to prevent injury to the knee.

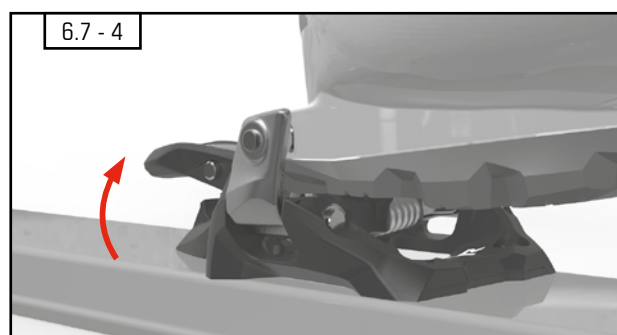
STEP IN:

- Clear snow, ice and dirt from the sole of the ski boot and the Pin inserts before stepping into the binding.

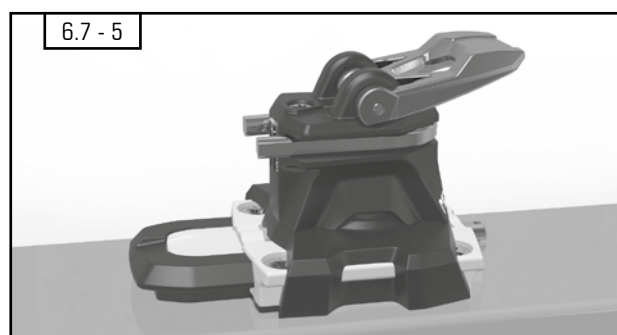


- If the toe is closed, open it by pressing down the toe opening lever. (6.7 - 2)

- Position the tip of the ski boot on the toe's step-in aids and between the retaining pins on the toe. (6.7 - 3)



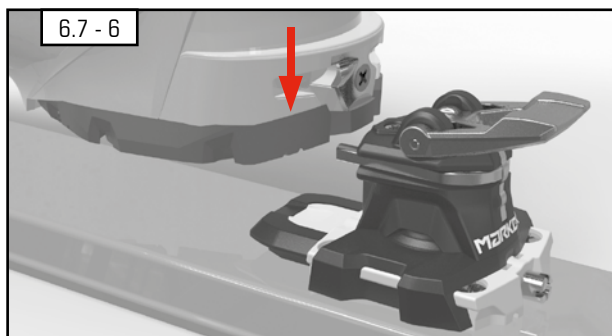
- Then press the tip of the boot down and step into the toe until the pins are locked fully into position in the insert, the toe opening lever has to snap to the "Ski" position. (6.7 - 4)



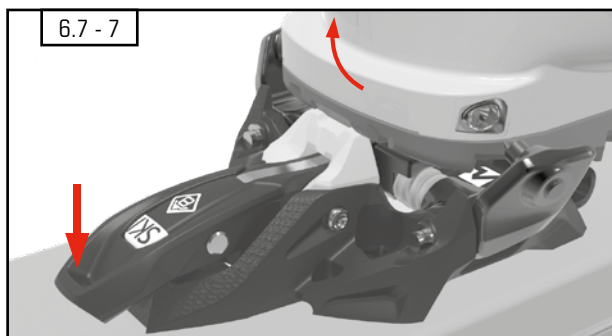
- Move the locked boot back and forth several times to ensure that boot and binding are securely connected.

- 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 folded backwards. (6.7 - 5)

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

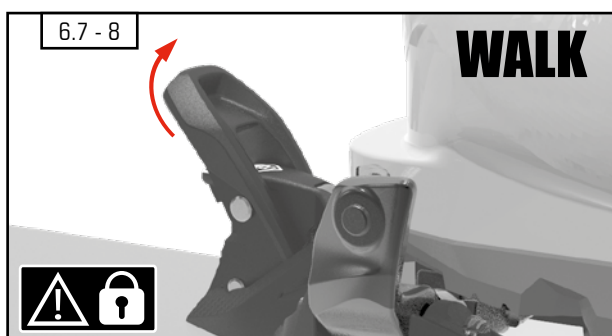


- Close the binding by stepping straight down into the heel. (6.7 - 6)



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. (6.7 - 7)



CHANGE OVER FROM SKIING TO HIKING POSITION:

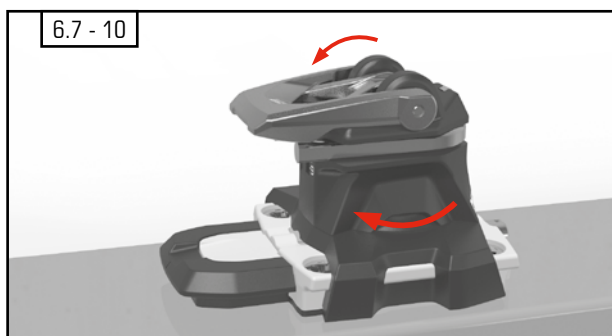
- There is an adjusting lever at the front end of the toe that can be used to choose between the positions for skiing (SKI) and hiking (WALK). To switch from the skiing position to hiking mode in order to walk with the binding, pull this lever upwards. (6.7 - 8)



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. (6.7 - 9)



USING THE HIKING AID

- In hiking mode, you can use two hiking aids with different angles. Lower hiking aid position: to use this position: Turn the heel holder by 180 ° (locking bolts face forward) and turn the hiking aid over forwards (6.7 - 10).

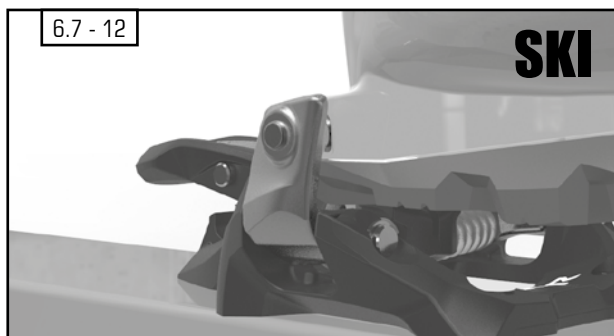
6.7 MARKER ALPINIST (ALL MODELS) - INFORMATION FOR THE SKIER



- Upper hiking aid position: to use this position: Turn the heel holder by 180° (locking bolts face backward) and fold the hiking aid forward. (6.7 - 11)

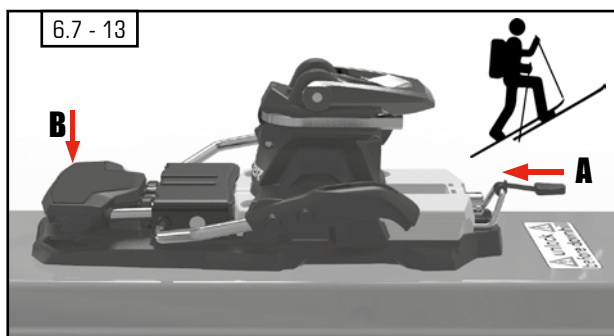
CHANGE OVER FROM HIKING TO SKIING POSITION

- 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 (6.7 - 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: 6.7 - 5)



SKI BRAKE:

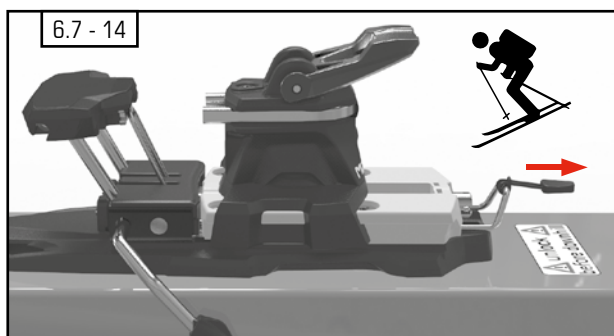
- MARKER offers ski brakes with different widths for the binding models MARKER ALPINIST, ALPINIST FREE & ALPINIST LONG TRAVEL. These ski brakes should be retrofitted by the specialist dealer. The MARKER ALPINIST DEMO models are fitted with brakes as standard.



- 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. (6.7 - 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. (6.7 - 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.

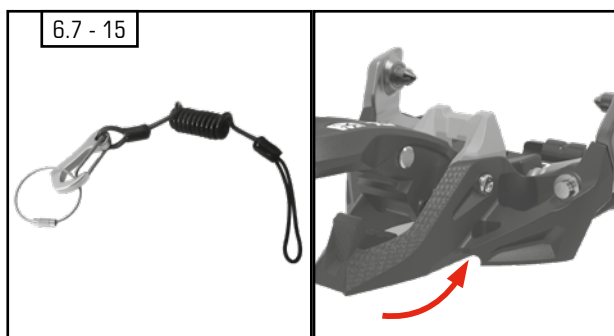


IMPORTANT SAFETY ADVICE !

The MARKER ALPINIST models 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 & Cruise safety leash. (6.7 - 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. (6.7 - 15)

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

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 binding. The skier should know his own DIN settings.
- 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.
- 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.
- 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.
- A suitable U-bow must be selected in coordination between the skier and a specialized dealer authorised by MARKER. U-bow replacements are carried out by a specialist dealer authorized by MARKER and documented in the settings log.

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.
- If the release value for side and/or vertical release is too high, the ski boot may not release from the binding. If the release value for side and/or vertical release is too low, the ski boot may release inadvertently from the binding. In both cases, there is a higher risk of injury to the skier.

MAINTENANCE: → 20.1

- 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.



IMPORTANT !

Explain to the skier that touring ski bindings are suitable only for the purpose they are intended for and therewith restrictions are related.

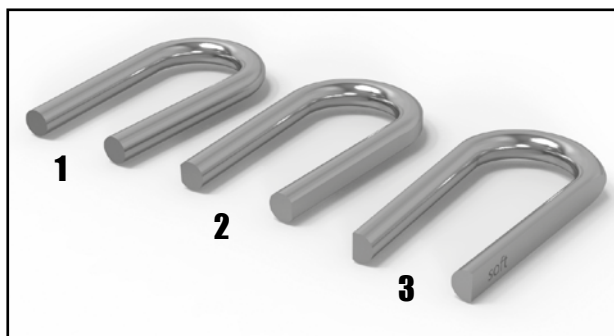


ATTENTION !

The specialist dealer must explicitly inform the skier of the following unique features of the MARKER Alpinist / Alpinist Free / Alpinist Long Travel / Alpinist Demo ski bindings:

- MARKER ALPINIST ski bindings are not TÜV-certified and therefore do not meet the relevant standards, in particular DIN/ISO 13992.
- 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 enable side and vertical release via the heel section.

6.8 MARKER ALPINIST (ALL MODELS) - ACCESSORIES



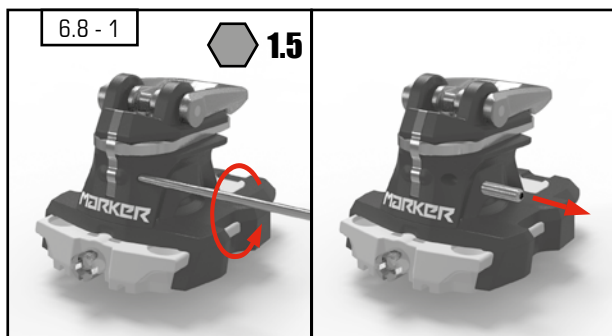
For the customization of the binding models ALPINIST, ALPINIST LONG TRAVEL and ALPINIST DEMO MARKER offers locking bolts (U - bows) in 3 different hardness levels:

- | | | | |
|-----|----------|------------------------------|------------|
| (1) | A001S1UH | MARKER ALPINIST U - bow hard | (Z 9 - 11) |
| (2) | A001S1UM | MARKER ALPINIST U - bow med | (Z 7 - 9) |
| (3) | A001S1US | MARKER ALPINIST U - bow soft | (Z 5 - 7) |

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

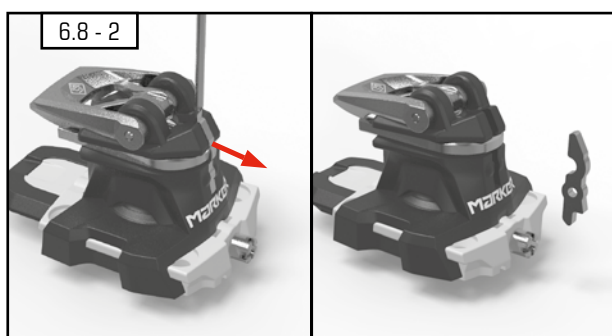
U - bow med: premounted on ALPINIST 10 & ALPINIST FREE 11

U - bow soft: premounted on ALPINIST 8



REPLACEMENT OF THE LOCKING BOLT (U-BOW):

- Untighten and remove the lock screw, this requires an # 1.5 Allen key. (6.8 - 1)

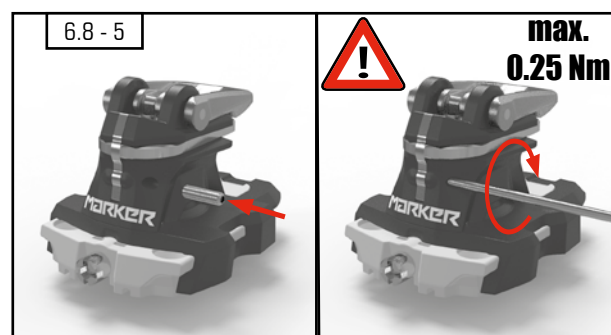
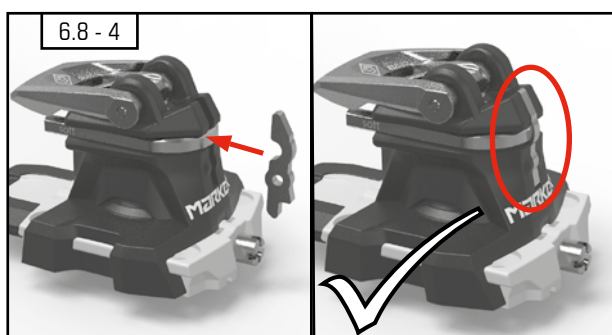


- Remove the locking element. (6.8 - 2)

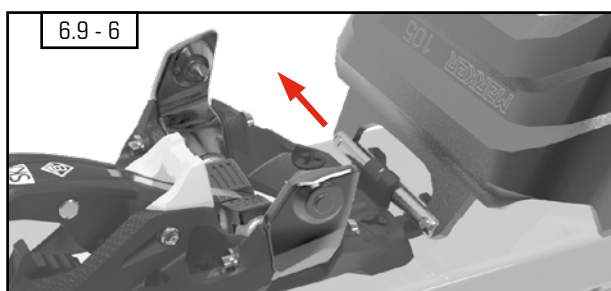
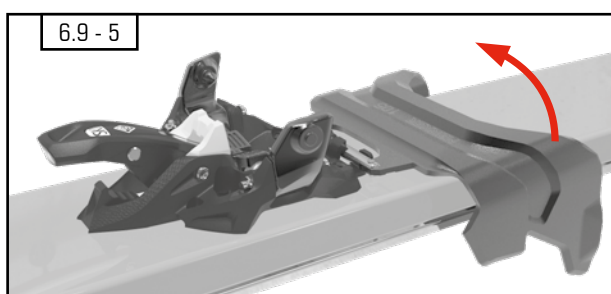
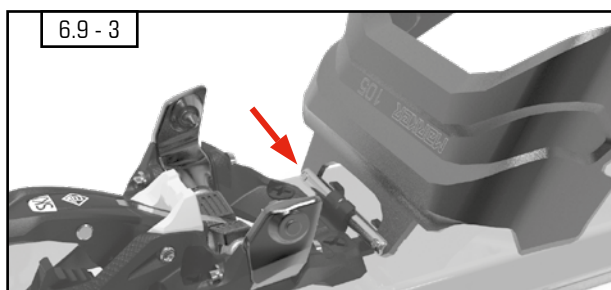
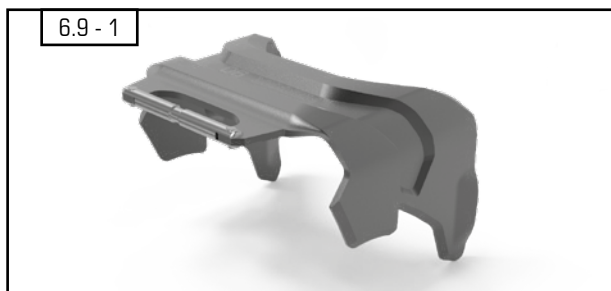


- Pull the locking bolt backwards from the heel housing, slide the replacement bow onto the housing. (6.8 - 3)

- Attach the locking element to the heel, the locking element has to be flush with the heel housing. (6.8 - 4)



6.9 MARKER PIN (Kingpin & Alpinist & Cruise) & DUKE PT - CRAMPONS



PIN & DUKE PT CRAMPONS:

MARKER offers special crampons for the MARKER PIN (Alpinist & Kingpin & Cruise) & DUKE PT models: (6.9 - 1)

Crampons Alpinist & Kingpin & Cruise	80 mm (ski width 66-80 mm) Art.-Nr. H005S1A
	90 mm (ski width 75-90 mm) Art.-Nr. H001P1P
	105 mm (ski width 90-105 mm) Art.-Nr. H002P1P
	120 mm (ski width 105-120 mm) Art.-Nr. H003P1P

Crampons Duke PT	105 mm (ski width → 105 mm) Art. Nr. H006U1R
	125 mm (ski width 105-125 mm) Art. Nr. H007U1R

ATTACHING THE CRAMPONS:

- Insert the crampon with the axis into the recess provided at the toe. Tilt the crampon around 60° to insert. (6.9 - 2 and 6.9 - 3)
- The crampon must noticeably click in place when it is centered. (6.9 - 4)



CAUTION !

Using crampons that are too small can damage the ski !



CAUTION !

No hiking aid may be used when walking with crampons. The effective action of the crampon in the snow may otherwise be too small.

DETACHING THE CRAMPONS:

- Tilt the crampon around 60°. (6.9 - 5)
- Push against the crampon from the side and pull out. (6.9 - 6)

DUKE PT

JesterX

Jester

GRIFFON

Squire

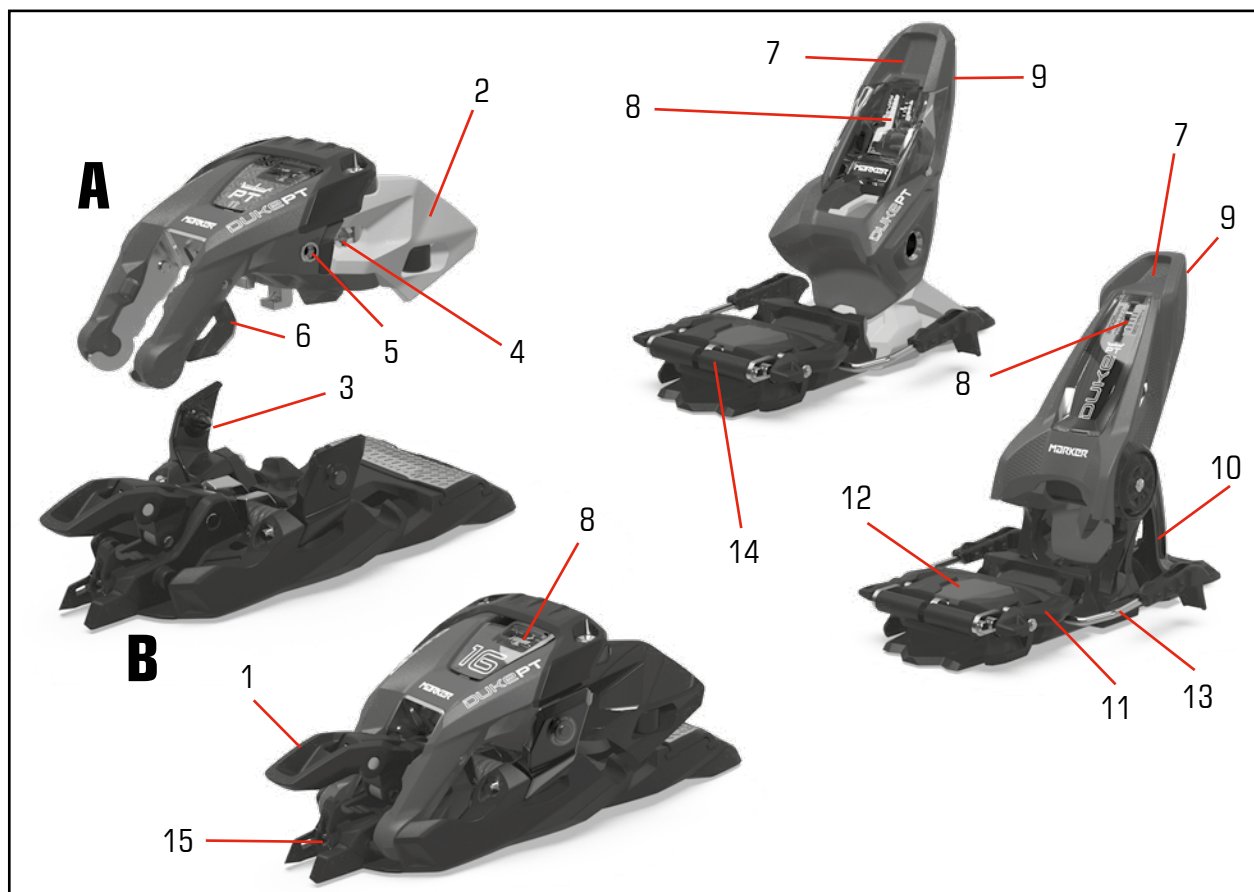
PERFORMANCE
LINE

FOUR

JUNIOR

COMP

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



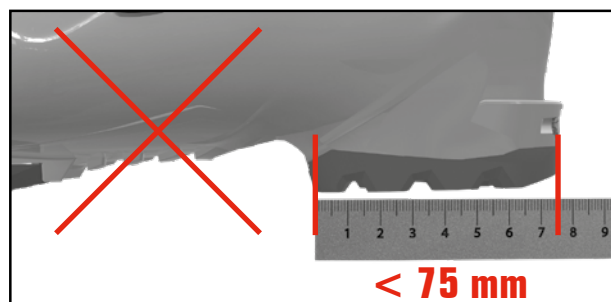
CAUTION !

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.

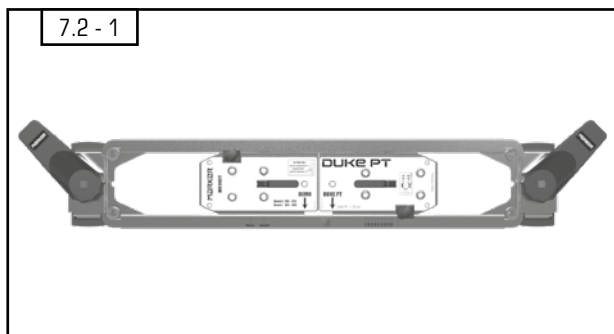


IMPORTANT !

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



7.2 INSTALLATION OF MARKER DUKE PT



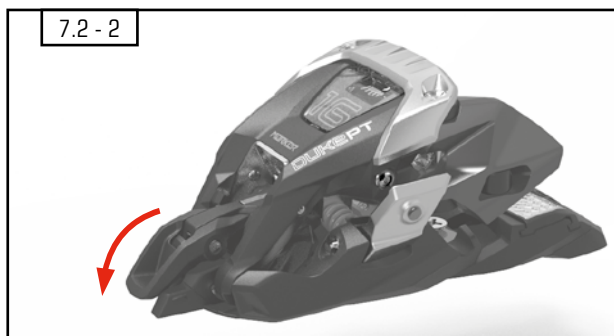
DRILLING THE ATTACHMENT HOLES:

IMPORTANT !



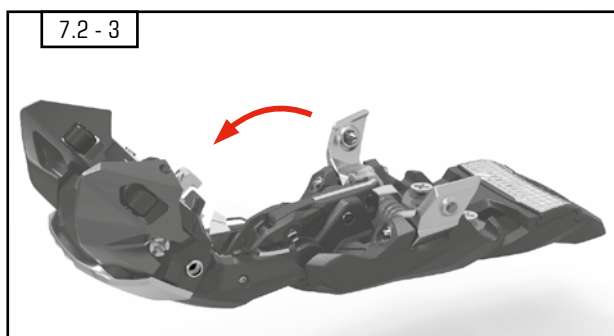
sole length	tool length adjustment
240 - 269 mm	270 mm
351 - 380 mm	350 mm

See ADJUSTMENT OF THE BINDING INSTALLATION TOOLS → 3.2



- Place the MARKER DUKE PT installation tool W014U1T in the correct position on the ski (7.2 - 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.

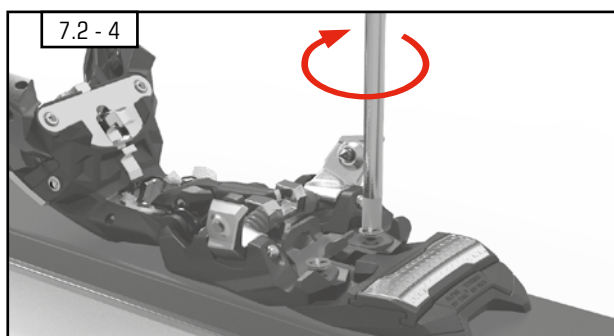
REMARK: See DRILLING INSTRUCTIONS → 3.2



INSTALLING THE TOE:

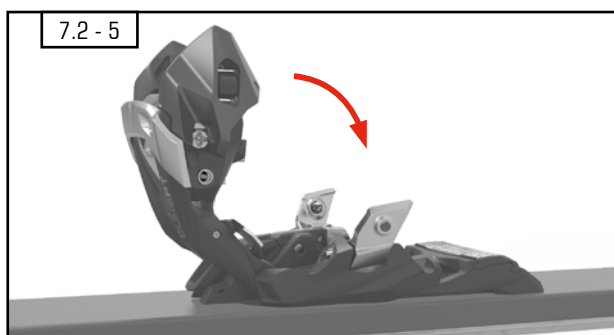
- Push the adjustment lever down with your hand and unlock the toe "Ski" (7.2 - 2)

- Fold the toe "Ski" forward (7.2 - 3).



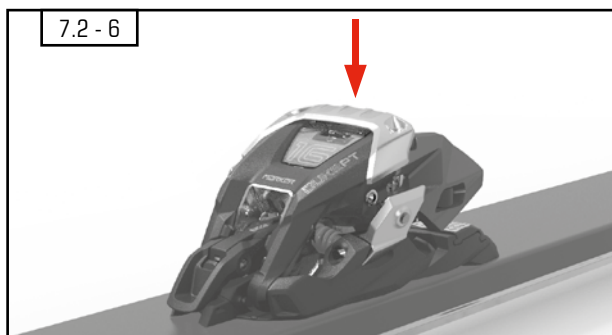
- Install the toe with the pre - installed screws in the front holes.

- Tighten the screws lightly, then firmly (7.2 - 4).

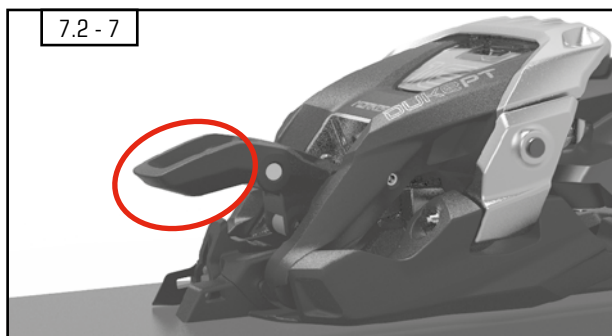


- Close the toe "Ski" (7.2 - 5).

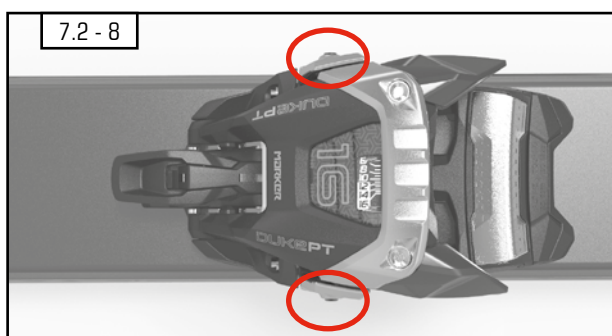
7.2 INSTALLATION OF MARKER DUKE PT



- Lock the toe "Ski" by pressing it downwards (7.2 - 6).

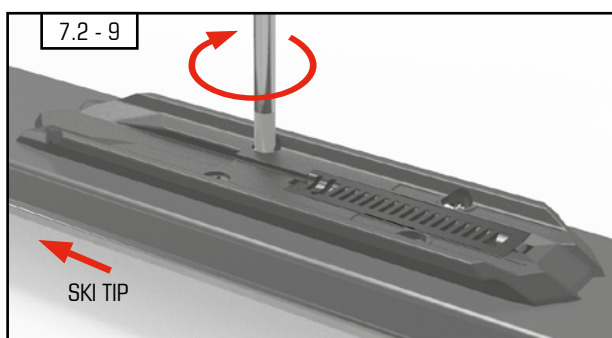


- The adjustment lever must snap into the "Ski" position and the pin locking bolts have to engage in the toe locking axis (7.2 - 7 and 7.2 - 8).



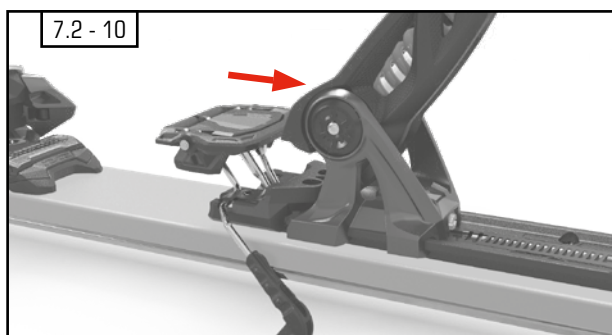
INSTALLING THE HEEL PLATE:

- Install the heel plate with the 4 pre - installed screws. Tighten the screws lightly, then firmly (7.2 - 9).



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

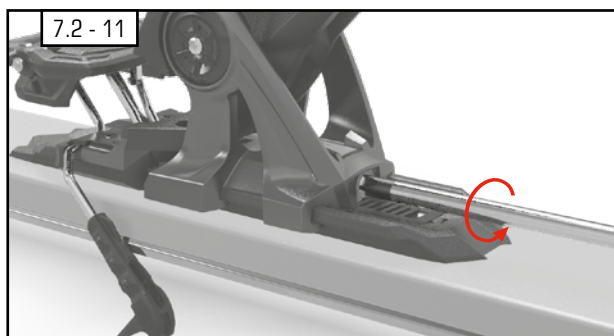
- Slide the heel back until it stops (7.2 - 10).



CAUTION !

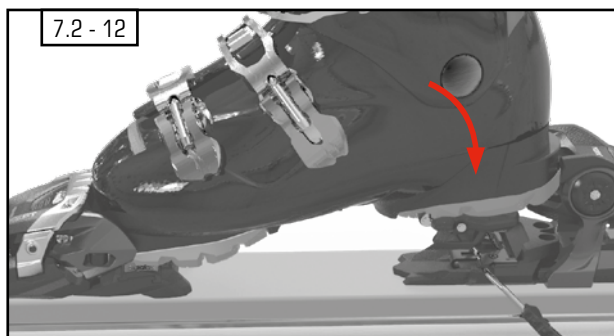
Ensure that the heel is fully and uniformly sliding onto the heel plate.

7.2 INSTALLATION OF MARKER DUKE PT



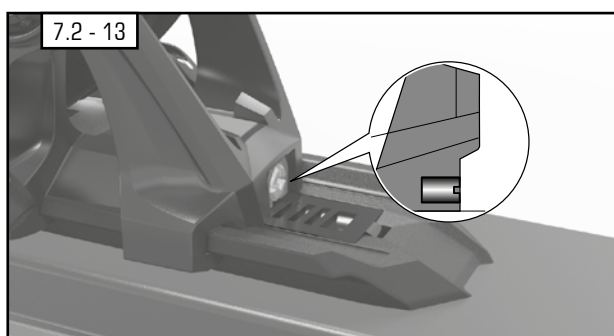
POSITIONING THE HEEL:

- Move the heel backwards by turning the forward pressure adjustment screw until the position of the heel is approximately right (7.2 - 11).



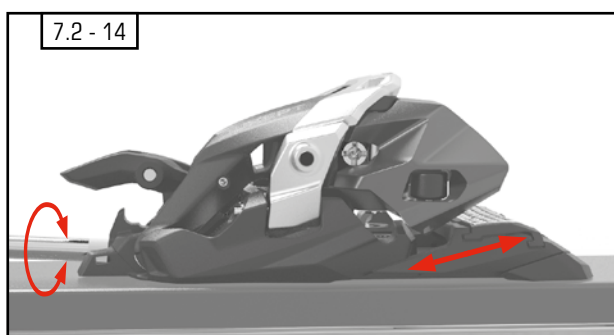
CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it (7.2 - 12).



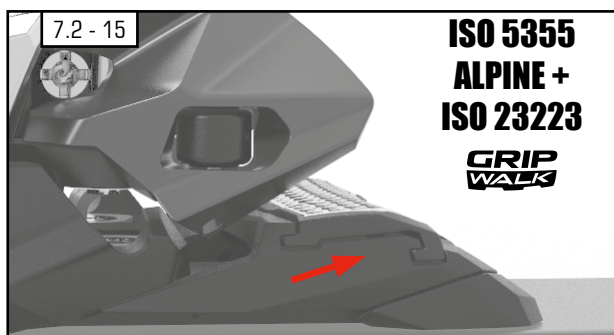
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing (7.2 - 13).

- Remove the ski boot.



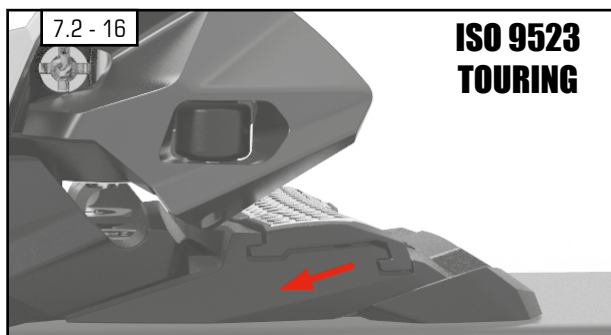
AFD HEIGHT ADJUSTMENT

- The height of the AFD gliding plate must be adjusted to the height of the boot sole (7.2 - 14).



- When the gliding AFD is adjusted to the rear / upper position, the height conforms to the DIN ISO 5355 Alpine ski boots for adults and DIN ISO 23223 Alpine ski boots for adults with the additional marking "GripWalk®" (7.2 - 15).

7.2 INSTALLATION OF MARKER DUKE PT

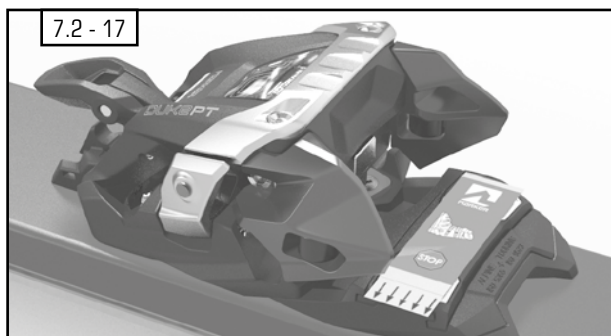


- When the gliding AFD is adjusted to the front / lower position, the height conforms to the DIN ISO 9523 (Touring boots) (7.2 - 16).

REMARK:

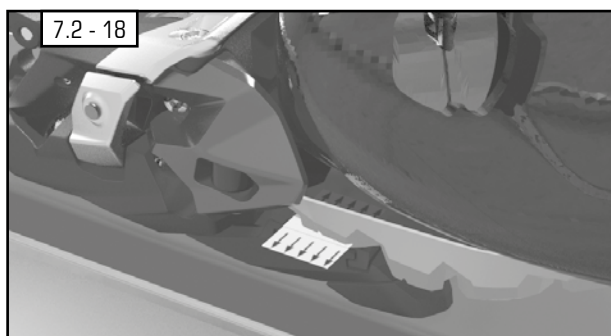
In the original delivery condition the AFD gliding plate is preset for:

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



REMARK:

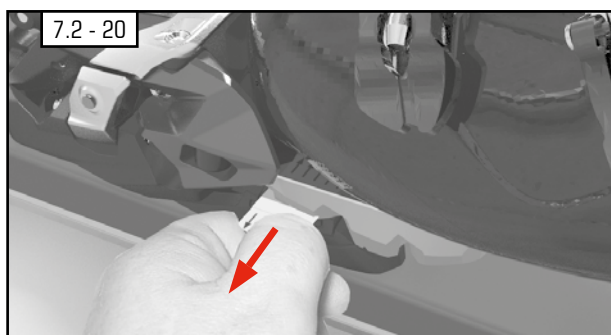
When mounting the toe to the height adjustment "touring" make
sure that you fit the enclosed "Touring" indication sticker to the
ski.



- Place the height test strip on the gliding AFD with the red marked
side up (7.2 - 17).

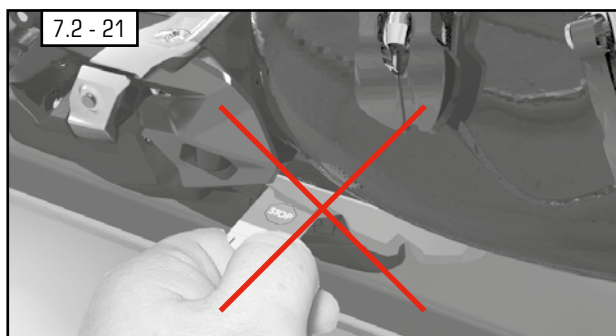


- Place the ski boot into the binding and close it.
(7.2 - 18 and 7.2 - 19)



- Pull out the lower part of the test strip carefully (7.2 - 20).

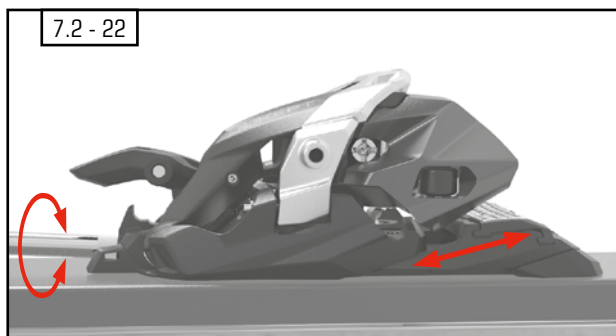
7.2 INSTALLATION OF MARKER DUKE PT



- 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 (7.2 - 21).
- Adjust the height of the gliding AFD by turning the adjustment screw (7.2 - 22) so that you can pull out the green marked lower part of the test strip just before it tears (7.2 - 23 and 7.2 - 24).

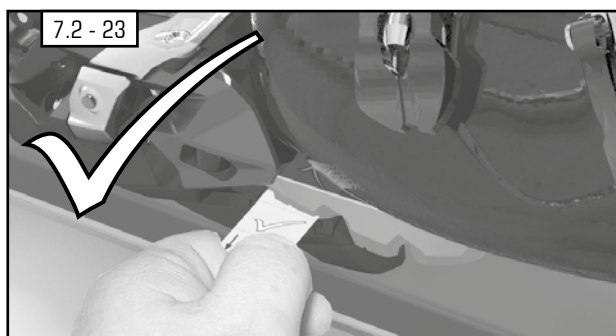
Turning the adjustment screw clockwise moves the AFD gliding plate down.

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 (7.2 - 25).
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.

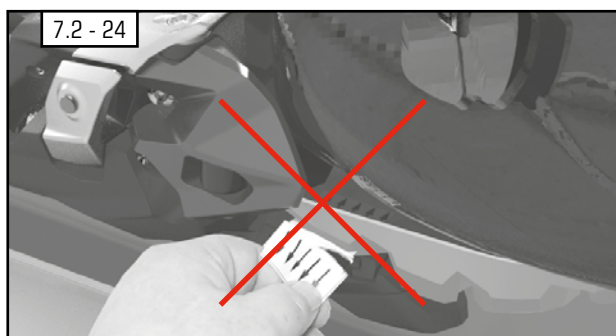


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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:

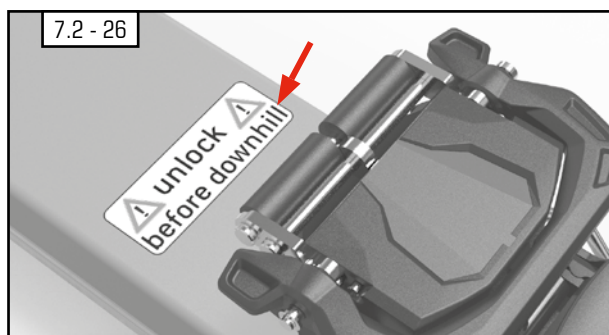
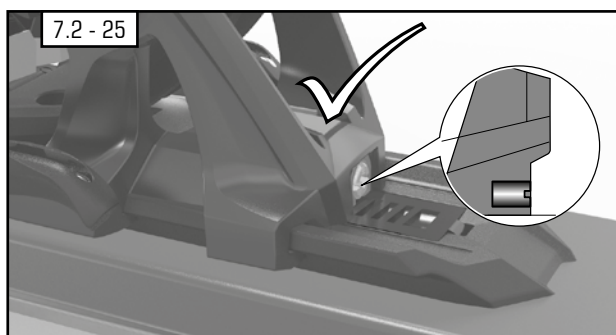
→ 17.1 - 17.3



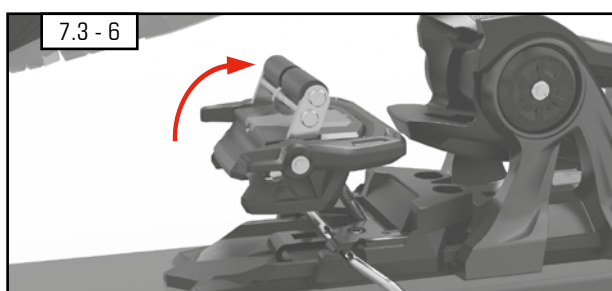
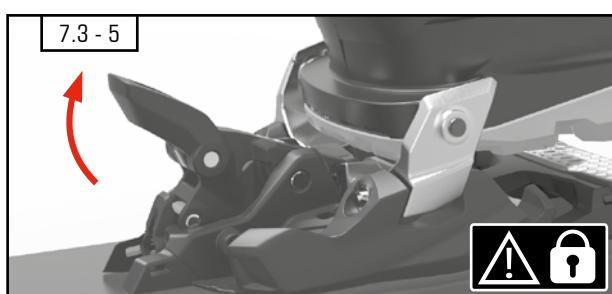
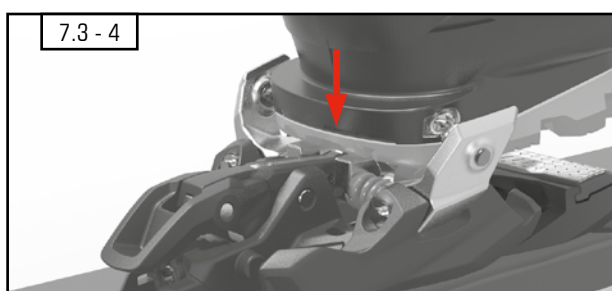
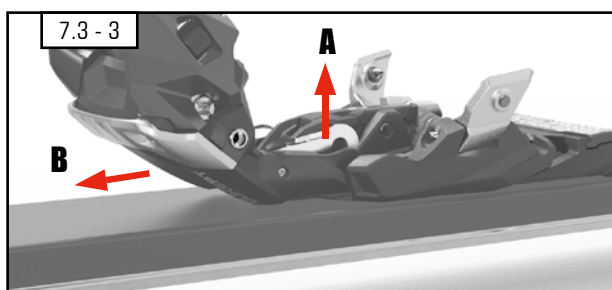
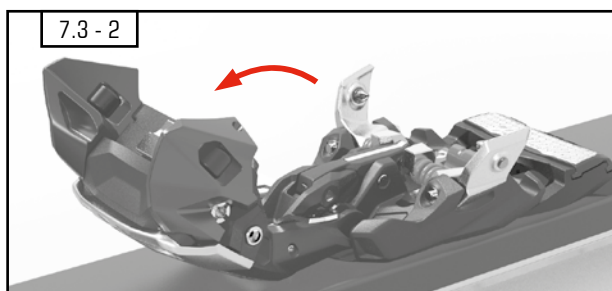
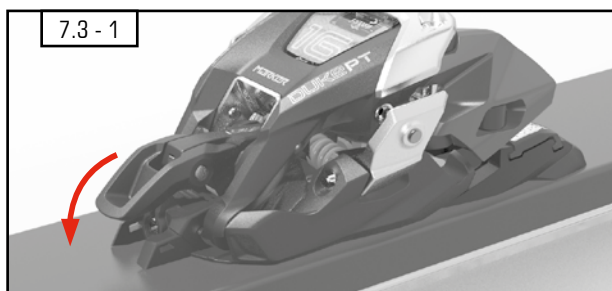
CAUTION ! The release value selection and adjustment has to be done very accurately to care for the skier's safety. All key information including the release value must be recorded in the workorder. → 20.3

NOTE:

When mounting the binding make sure that you fit the enclosed stickers to the ski. (7.2 - 26)



7.3 MARKER DUKE PT - INFORMATIONS FOR THE SKIER



In addition to the system explanations → 20.1 - 20.3, 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" (7.3 - 1).
- Fold toe "Ski" forward until it rests on the ski surface and engages (7.3 - 2).
- For longer ascents, toe "Ski" can be removed by lifting the locking plate and pulling toe "Ski" forward from toe B "Walk" (7.3 - 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 (7.3 - 4).
- To lock the toe pull the toe lever upwards (7.3 - 5). Move the locked boot back and forth several times to ensure that boot and binding are securely connected.

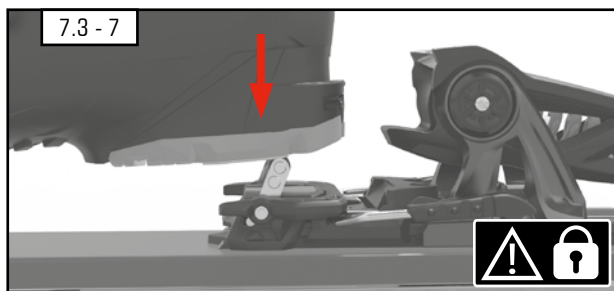


CAUTION ! In hiking mode (WALK) the release function is blocked !

CHANGING THE BRAKE OVER FROM DESCENT TO ASCENT POSITION

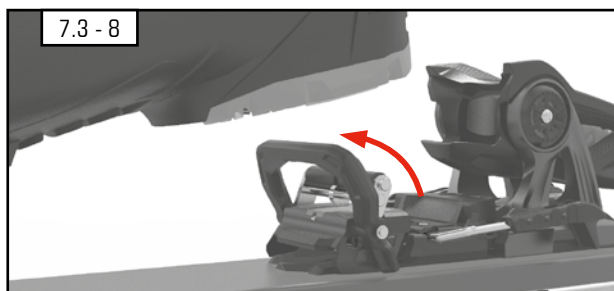
- Swivel the brake locking lever upwards as far as it will go (7.3 - 6).

7.3 MARKER DUKE PT - INFORMATIONS FOR THE SKIER



- The brake is engaged by hand by pushing the brake pedal down or by stepping down on the pedal when stepping in (7.3 - 7).

USING THE HIKING AID

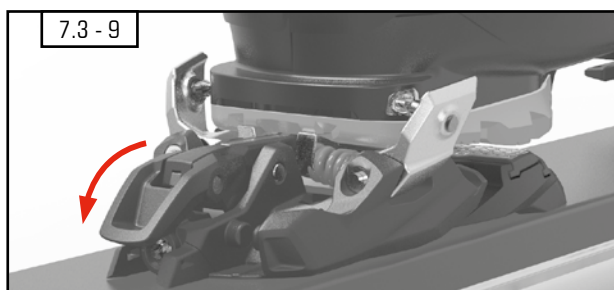


- In ascent mode, the hiking aid can be used. Swivel the hiking aid forwards/upwards into the 10° ascent position with your hand or ski pole (7.3 - 8).

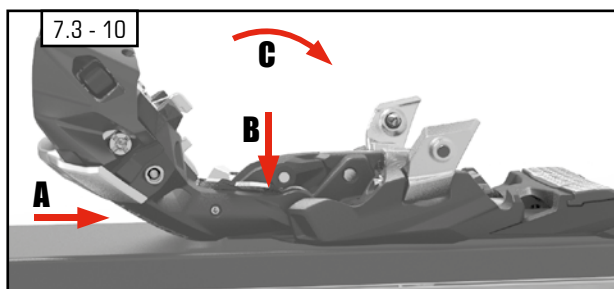
CHANGE OVER FROM HIKING TO SKIING POSITION

NOTE:

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



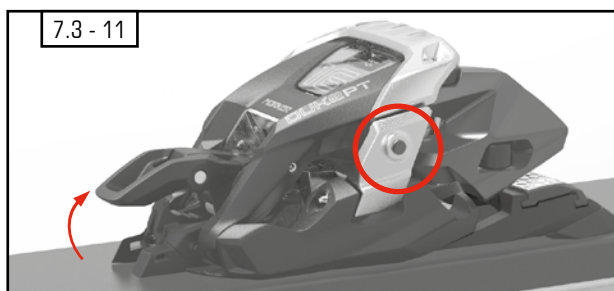
- To step out of toe "Walk", press down the adjustment lever on the toe with your ski pole, hand or ski boot and slightly lift the tip of the ski boot (7.3 - 9).
- When toe "Ski" has been removed, push toe "Ski" from the front onto toe "Walk". The locking plate must be pressed down completely by hand and closed (7.3 - 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 (7.3 - 11).

CHANGING THE BRAKE OVER FROM ASCENT TO DESCENT POSITION

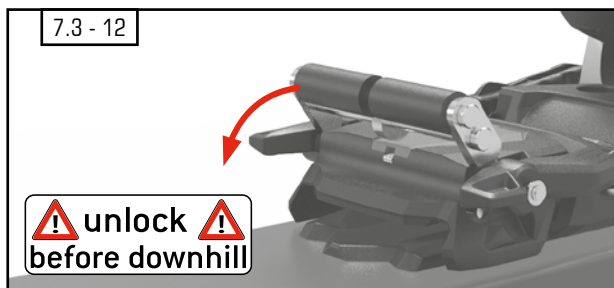
- To release the brake, swivel the brake locking lever forwards/downwards (7.3 - 12).



CAUTION ! In the ascent position the brake function is deactivated and the correct release function of the binding is not given !

NOTE:

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



DUKE PT CRAMPONS:

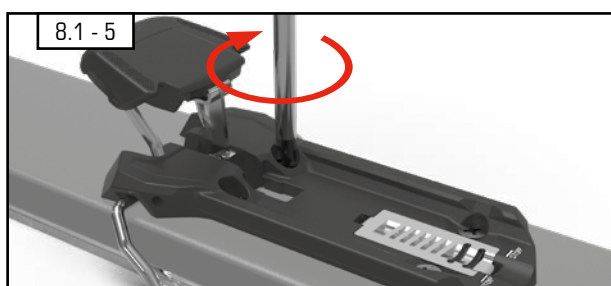
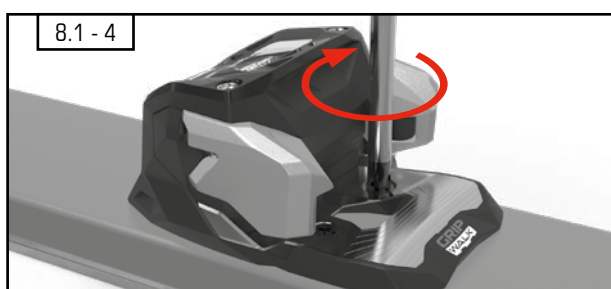
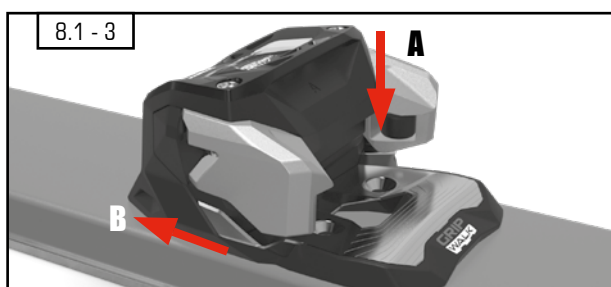
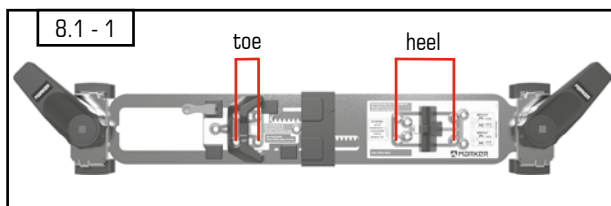
MARKER offers special crampons for the DUKE PT models:

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 → 6.9

8.1 INSTALLATION OF JESTER X MWERKS & GRIFFON X MWERKS



REMARK:

The binding models Jester X MWerks and Griffon X MWerks are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN 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 (8.1 - 1) in the correct position on the ski.
- Drill 4 holes for the 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 TOE:

- Install the crossbar (front plate) with the pre - installed screws in the front holes. Tighten the screws lightly, then firmly (8.1 - 2).
- Place the toe from the top on the crossbar and push it forwards (8.1 - 3).



CAUTION !

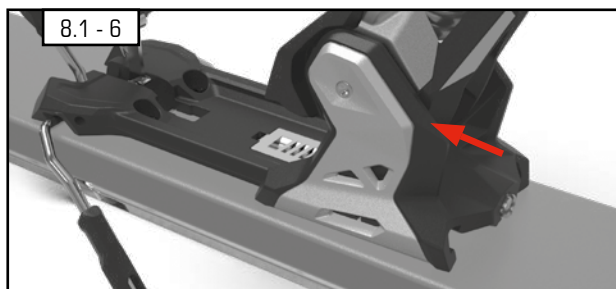
Ensure that the toe is fully and uniformly sliding onto the crossbar attachments.

- Install the toe with the enclosed screws. (8.1 - 4)

INSTALLING THE HEEL:

- Install the heel plate with the 4 pre - installed screws (8.1 - 5).

8.1 INSTALLATION OF JESTER X MWERKS & GRIFFON X MWERKS



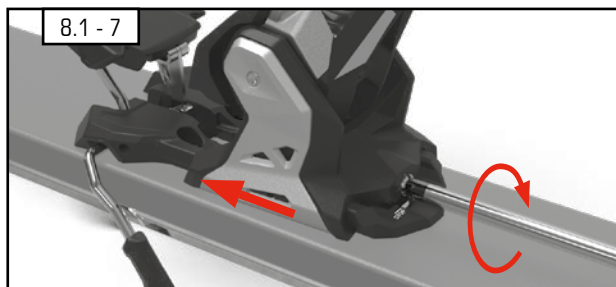
- Slide the heel from the rear onto the heel plate. (8.1 - 6)
- Slide the heel forward until it stops.



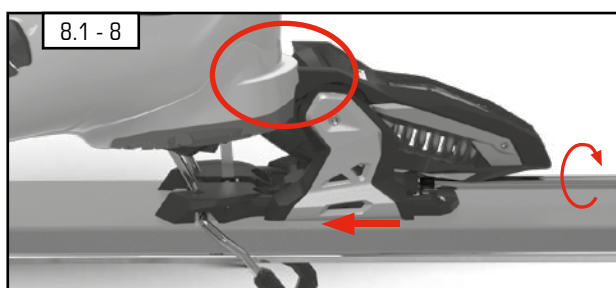
CAUTION !

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

POSITIONING THE HEEL:

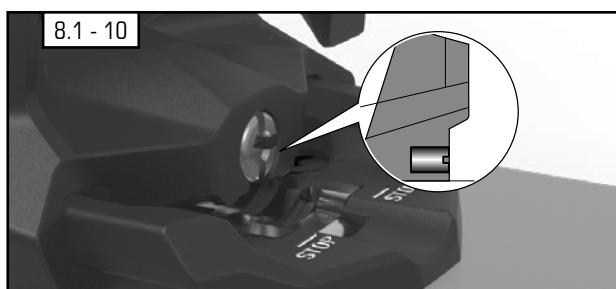
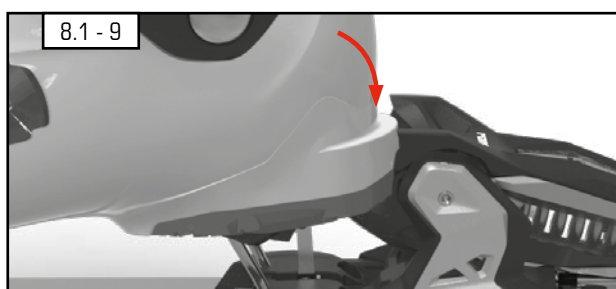


- Move the heel forwards by turning the forward pressure adjustment screw. (8.1 - 7)
- Place the ski boot into the binding. Move the heel forwards until the position of the heel is approximately right. (8.1 - 8)



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. (8.1 - 9 & 8.1 - 10)
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.



IMPORTANT SAFETY ADVICE !

Make sure that you do not exceed the »STOP« marking on the plate when adjusting the sole length backward ! (8.1 - 11)



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.

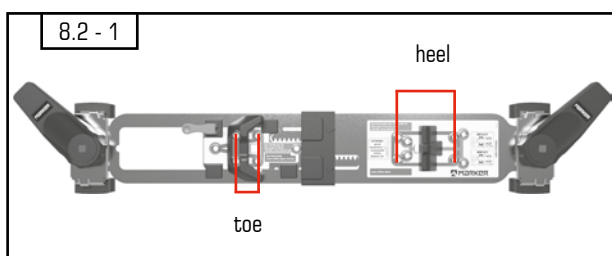
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3



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. → 20.3

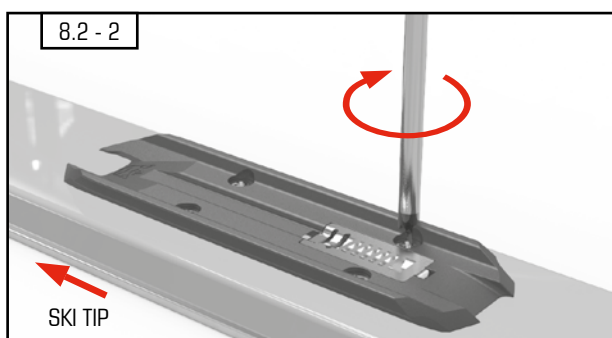
8.2 INSTALLATION OF MARKER JESTER PRO & JESTER & GRIFFON



REMARK:

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

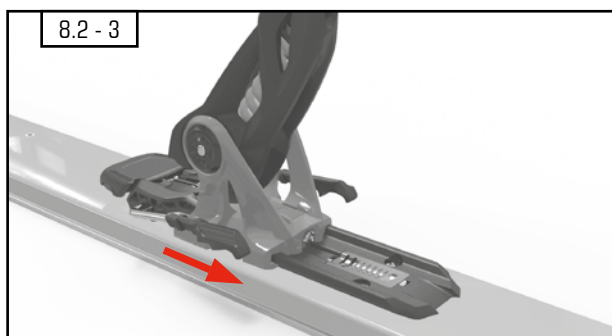
- Touring ski boots for adults DIN ISO 9523
- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN ISO 23223 with the additional marking "GripWalk®"



DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF THE BINDING INSTALLATION TOOLS
→ 3.2

- Place the MARKER universal installation tool W001G1T or W012J1T (8.2 - 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 red marked drill bushings
- Remove installation tool from the ski.

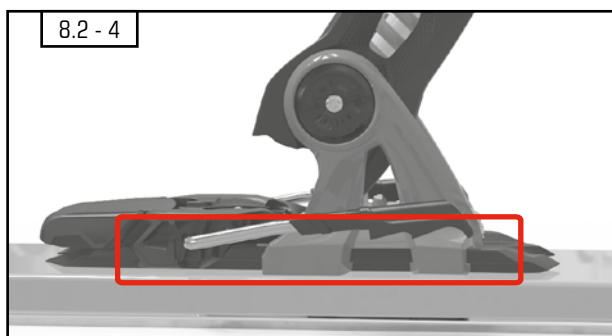


REMARK:

See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE HEEL :

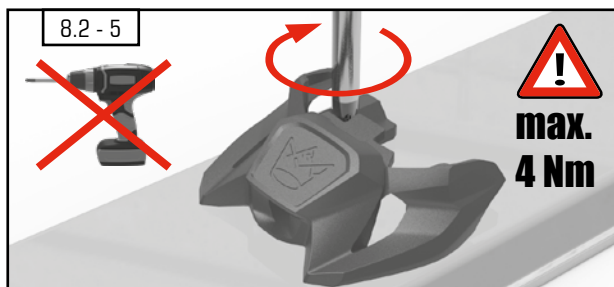
- Install the heel plate with the 4 pre - installed screws (8.2 - 2). Tighten the screws lightly, then firmly.
- Slide the heel onto the heel plate, starting from the front. (8.2 - 3)
- Slide the heel back until it stops. (8.2 - 3)



CAUTION !

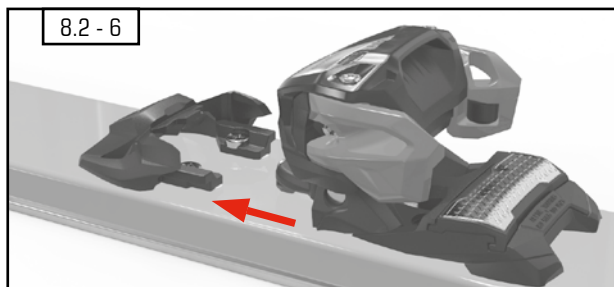
Ensure that the heel is fully and uniformly sliding onto the heel plate. (8.2 - 4)

8.2 INSTALLATION OF MARKER JESTER PRO & JESTER & GRIFFON

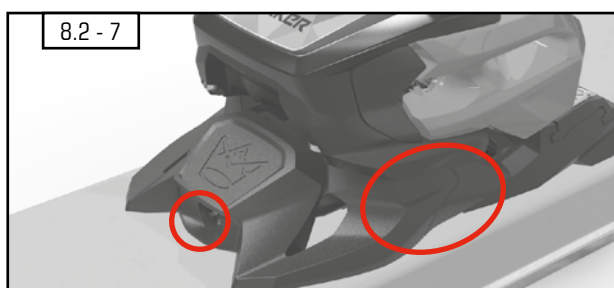


INSTALLING THE TOE:

- Install the front plate with the pre - installed screws in the front holes. Tighten the screws lightly, then firmly (8.2 - 5).



- Slide the toe onto the front plate from the rear (8.2 - 6).



CAUTION !

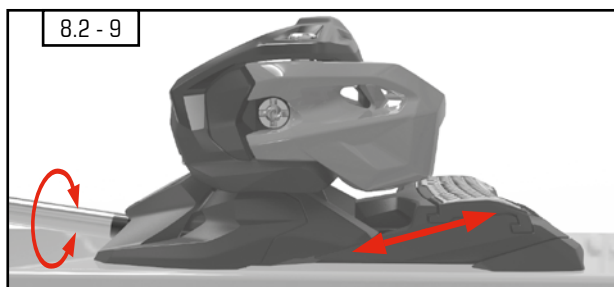
Ensure that the toe is fully and uniformly sliding into the front plate attachments and the height adjustment screw is mounted correct to the front plate. (8.2 - 7)



- Install the toe with the enclosed screws. Tighten the screws lightly, then firmly (8.2 - 8).

AFD HEIGHT ADJUSTMENT

- The height of the AFD gliding plate must be adjusted to the height of the boot sole. (8.2 - 9)



REMARK:

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

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



- When the gliding AFD is adjusted to the rear / upper position, the height conforms to the DIN ISO 5355 Alpine ski boots for adults and DIN ISO 23223 Alpine ski boots for adults with the additional marking "GripWalk®". (8.2 - 10)

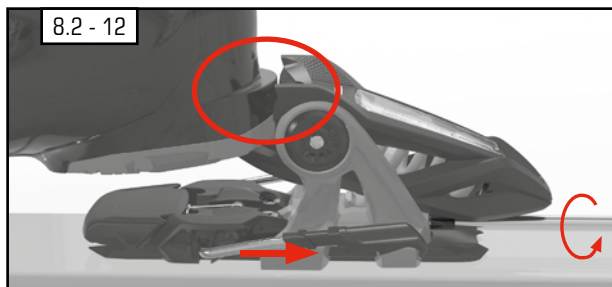
8.2 INSTALLATION OF MARKER JESTER PRO & JESTER & GRIFFON



- When the gliding AFD is adjusted to the front / lower position, the height conforms to the DIN ISO 9523 (Touring boots) (8.2 - 11)

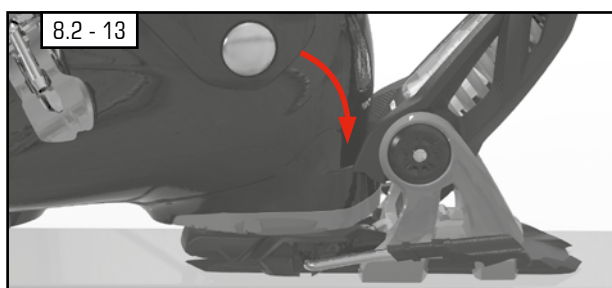
REMARK:

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



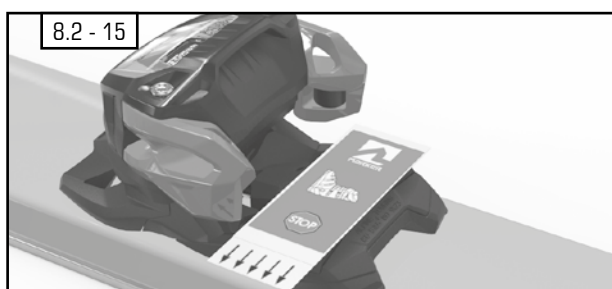
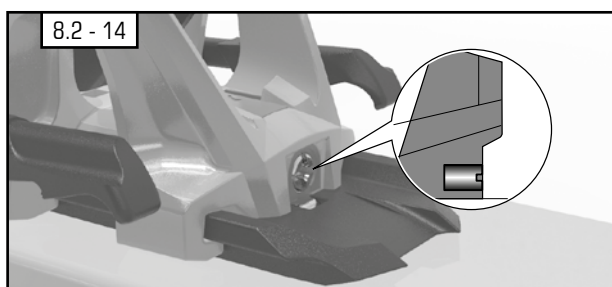
POSITIONING THE HEEL:

- 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. (8.2 - 12).



CHECK FORWARD PRESSURE:

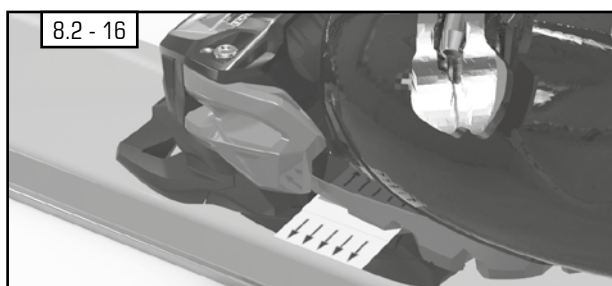
- Place the ski boot into the binding and close it. (8.2 - 13)
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing. (8.2 - 14)
- Remove the ski boot.



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. (8.2 - 15).



- Place the ski boot into the binding and close it. (8.2 - 16)

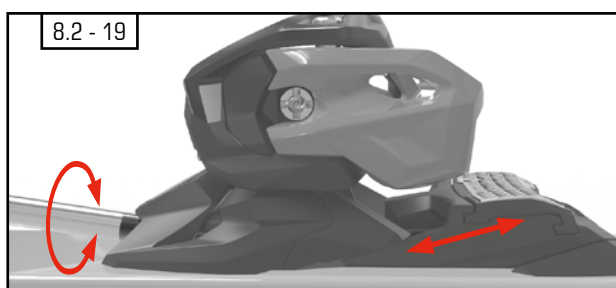
8.2 INSTALLATION OF MARKER JESTER PRO & JESTER & GRIFFON



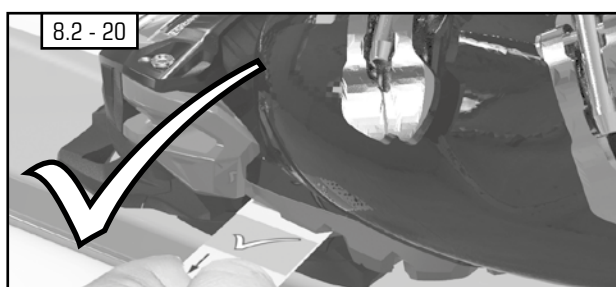
- Pull out the lower part of the test strip carefully. (8.2 - 17)



- 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. (8.2 - 18)

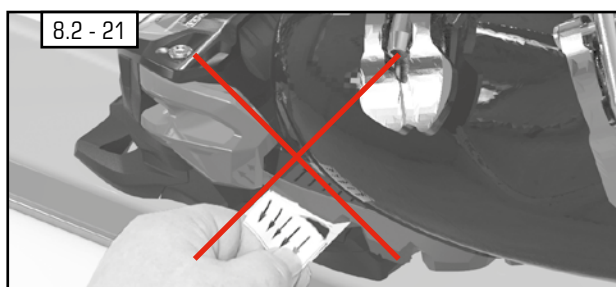


- Adjust the height of the gliding AFD by turning the adjustment screw (8.2 - 19) so that you can pull out the green marked lower part of the test strip just before it tears (8.2 - 20 and 8.2 - 21).



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 (8.2 - 22).
- Remove the ski boot, then re - insert it into the binding and re-check the adjustment.

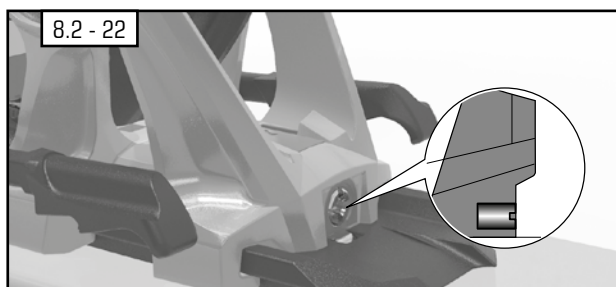


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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.

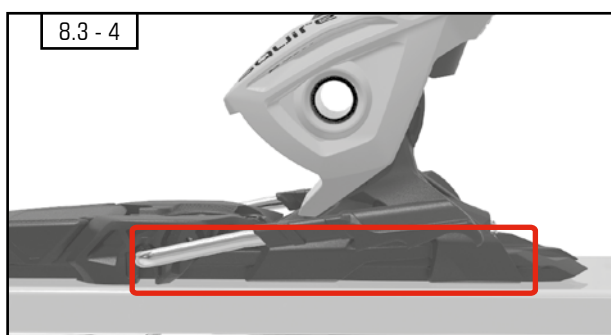
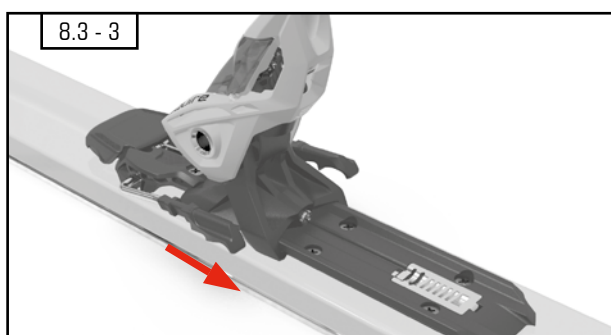
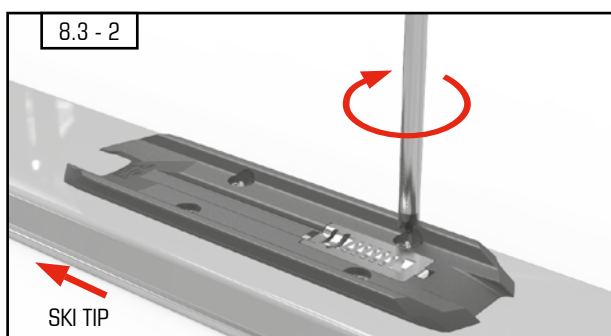
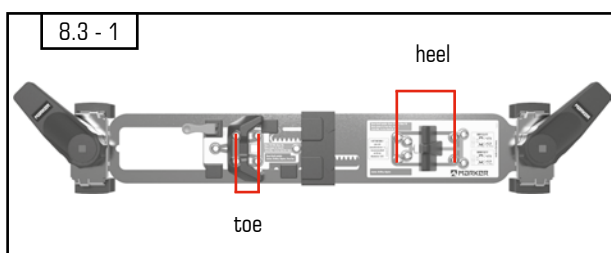
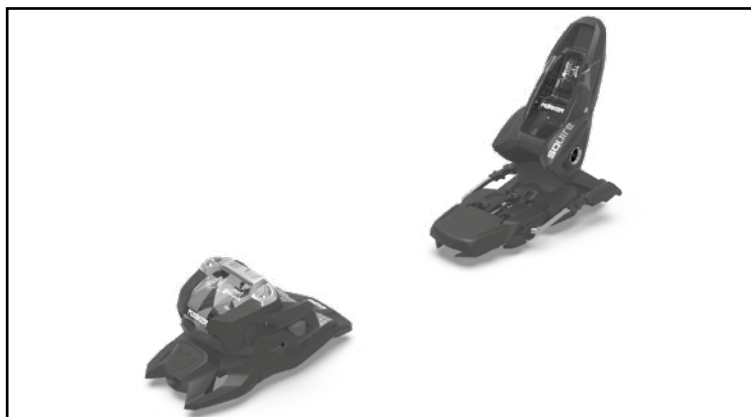
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3



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. → 20.3

8.3 INSTALLATION OF MARKER SQUIRE 11



REMARK:

This mounting instruction is also valid for the models Squire 12 TCX

REMARK:

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

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN 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 (8.3 - 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 :

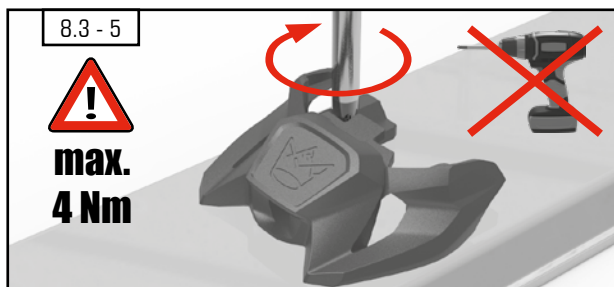
- Install the heel plate with the 4 pre - installed screws (8.3 - 2). Tighten the screws lightly, then firmly.
- Slide the heel onto the heel plate, starting from the front. (8.3 - 3)
- Slide the heel back until it stops.



CAUTION !

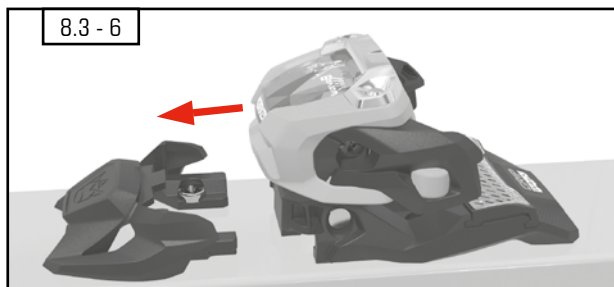
Ensure that the heel is fully and uniformly sliding onto the heel plate. (8.3 - 4)

8.3 INSTALLATION OF MARKER SQUIRE 11



INSTALLING THE TOE:

- Install the front plate with the pre - installed screws in the front holes. Tighten the screws lightly, then firmly (8.3 - 5).
- Slide the toe onto the front plate from the rear (8.3 - 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 (8.3 - 7).

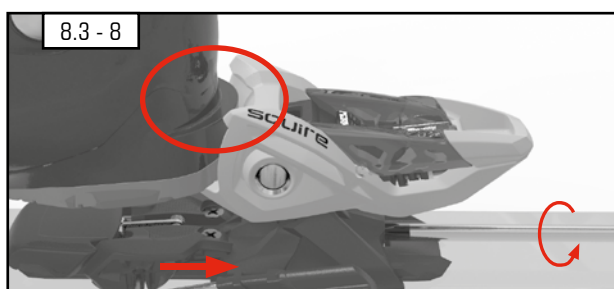


POSITIONING THE HEEL:

- 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. (8.3 - 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. (8.3 - 9 & 8.3 - 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.

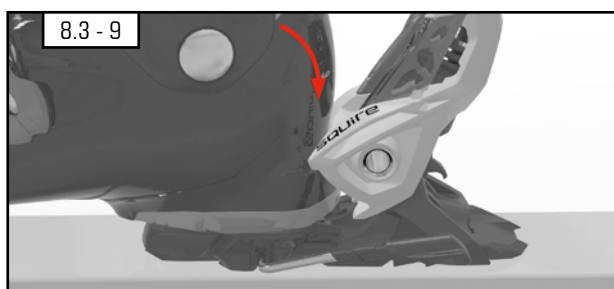


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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.

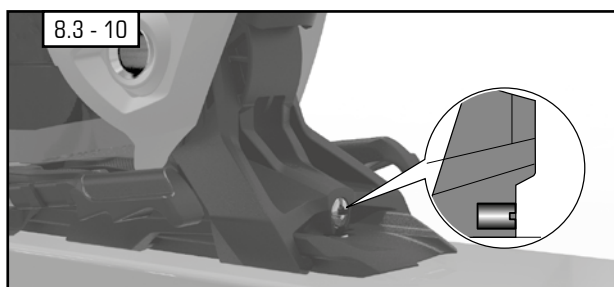
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3

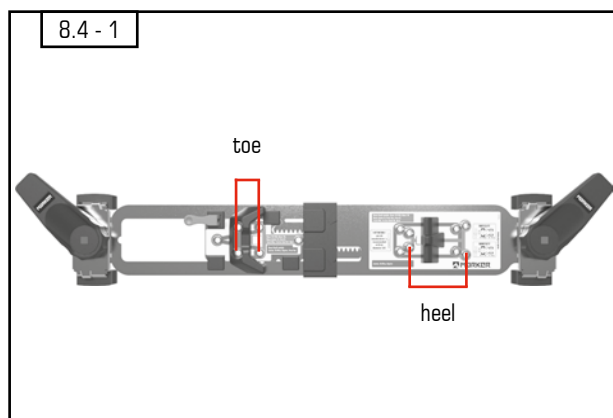


CAUTION !

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. → 20.3



8.4 INSTALLATION OF SQUIRE 10 MODELS



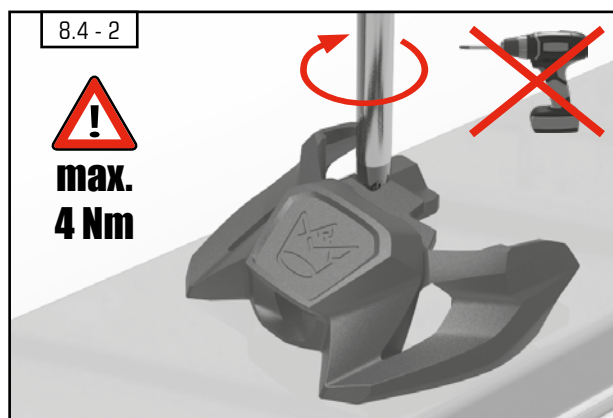
REMARK:

The binding models Squire 10 are designed for the following standard boot soles:

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

DRILLING THE ATTACHMENT HOLES:

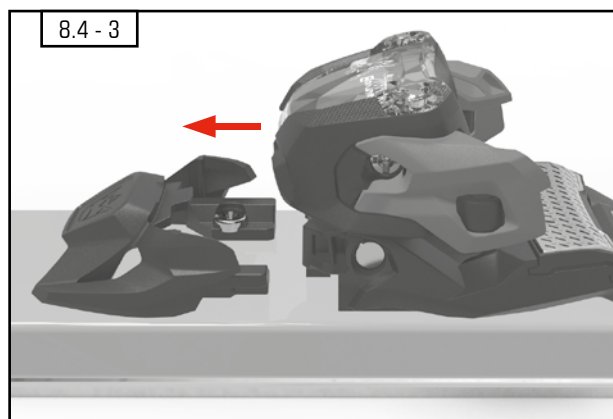
See ADJUSTMENT OF THE INSTALLATION TOOLS. → 3.2



- Place the MARKER universal installation tool W001G1T or W012J1T (8.4 - 1) in the correct position on the ski.
- Drill 4 holes for the front plate (toe) through the red marked drill bushings.
- Drill 4 holes for the heel plate (heel) through the green marked drill bushings.
- Remove installation tool from the ski.

REMARK:

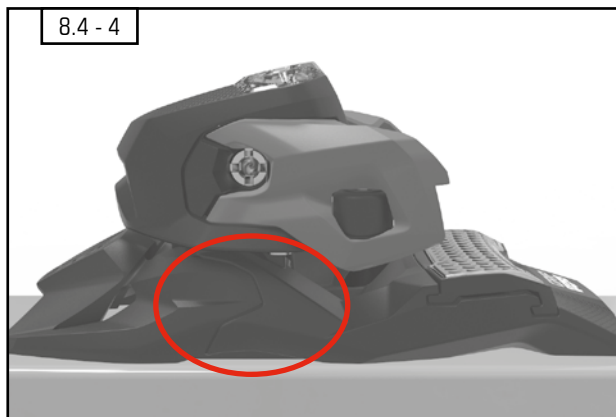
See DRILLING INSTRUCTIONS → 3.2



INSTALLING THE TOE:

- Install the front plate with the pre - installed screws in the front holes. Tighten the screws lightly, then firmly (8.4 - 2).
- Slide the toe onto the front plate from the rear (8.4 - 3).

8.4 INSTALLATION OF SQUIRE 10 MODELS



CAUTION !

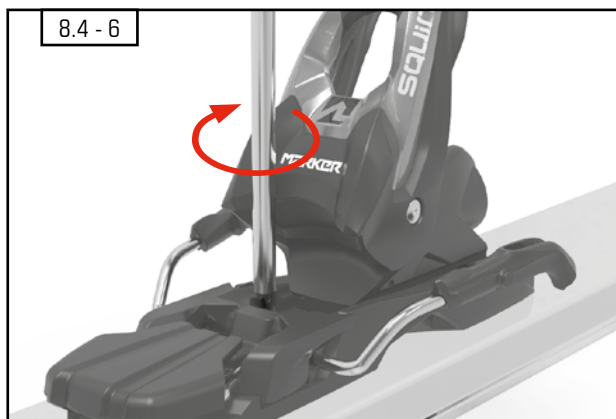
Ensure that the toe is fully and uniformly sliding into the front plate attachments (8.4 - 4).

- Install the toe with the enclosed screws. Tighten the screws lightly, then firmly (8.4 - 5).



INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- With downward pressure, tighten the screws lightly, then firmly. (8.4 - 6)



CHECK FORWARD PRESSURE:

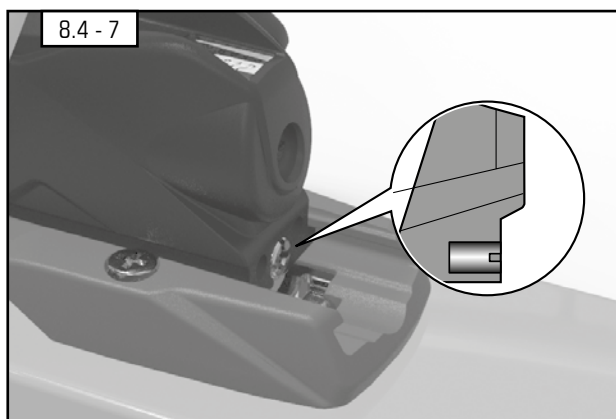
- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing. (8.4 - 7)
If this adjustment is incorrect, turn the screw until it is flush with the back of the housing.
- Remove the ski boot, then re - insert it into the 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:

→ 17.1 - 17.3



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. → 20.3

9.1 INSTALLATION OF MARKER F 12 TOUR EPF & F 10 TOUR



REMARK:

F 12 Tour EPF & F 10 Tour small: 265 mm - 325 mm

F 12 Tour EPF & F 10 Tour large: 305 mm - 365 mm



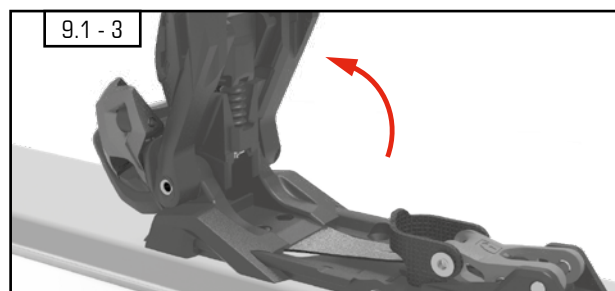
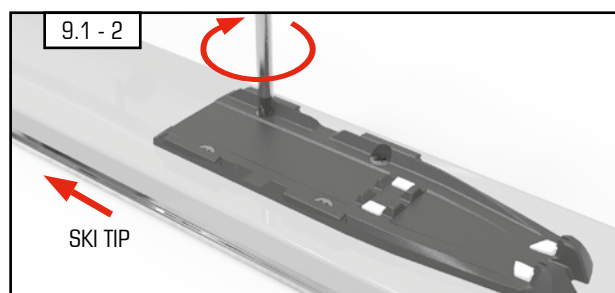
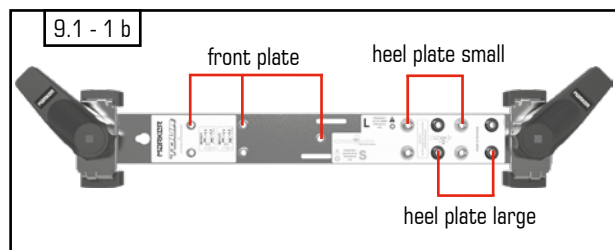
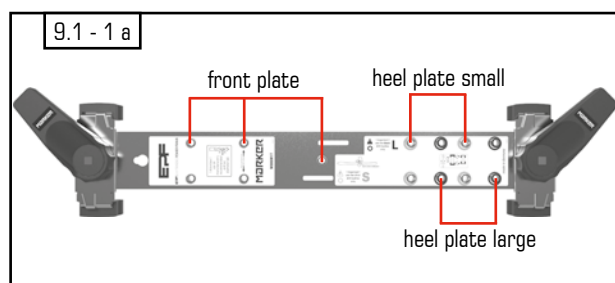
CAUTION !

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 installation tool EPF, W006M1T.

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



REMARK:

F 12 Tour EPF & F 10 Tour bindings meet DIN ISO 13992 and 9462 and are designed for the following standard boot soles:

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

DRILLING THE ATTACHMENT HOLES:

- F 12 Tour EPF: place the MARKER EPF installation tool W006M1T (9.1 - 1 a) in the correct position on the ski.
- F 10 Tour: place the MARKER TOUR installation tool W010G1T or W011J1T (9.1 - 1 b) in the correct position on the ski.
- Drill 5 holes for the front plate through the front drill bushings.
- F 12 Tour EPF & F 10 Tour small:
Drill 4 holes for the heel plate through the rear silver drill bushings.
- F 12 Tour EPF & F 10 Tour large:
Drill 4 holes for the heel plate through the rear black drill bushings.
- Remove the installation tool from the ski.

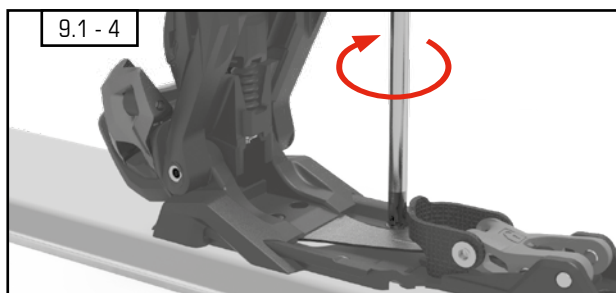
REMARK:

See DRILLING INSTRUCTIONS → 3.2

INSTALLING THE HEEL PLATE:

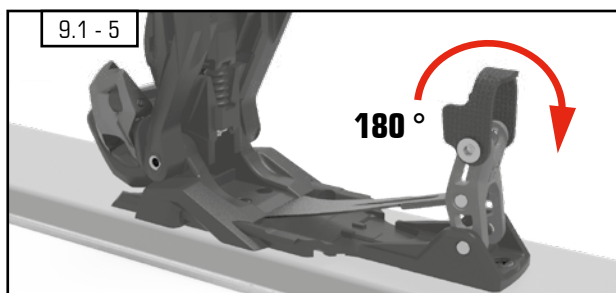
- Install the heel plate with the 4 pre - installed screws. Tighten the screws lightly, then firmly (9.1 - 2).

9.1 INSTALLATION OF MARKER F 12 TOUR EPF & F 10 TOUR

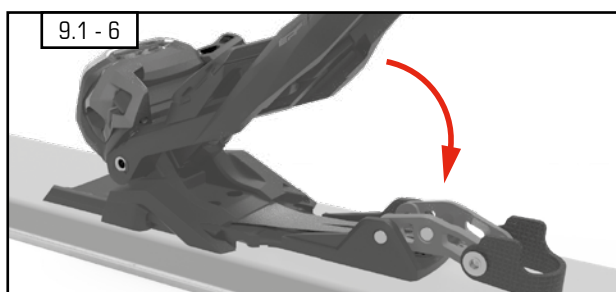


INSTALLING THE TOE:

- Open the binding and install the front plate with the 3 pre - installed screws. Tighten the screws lightly, then firmly (9.1 - 3 and 9.1 - 4).



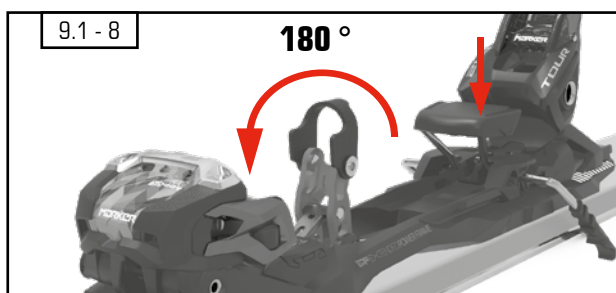
- Switch the TOUR engagement lever to the unlocked position (9.1 - 5)



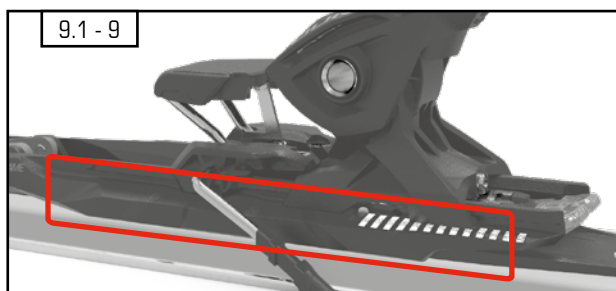
- and lower the binding afterwards (9.1 - 6).



- Insert and tighten the 2 front screws (9.1 - 7).



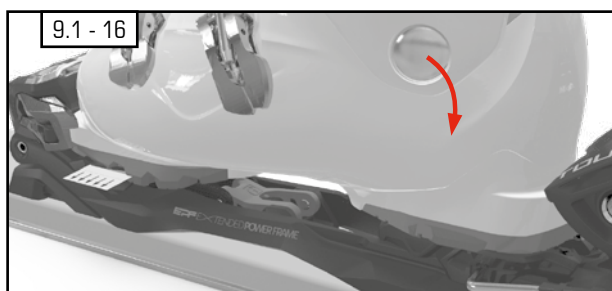
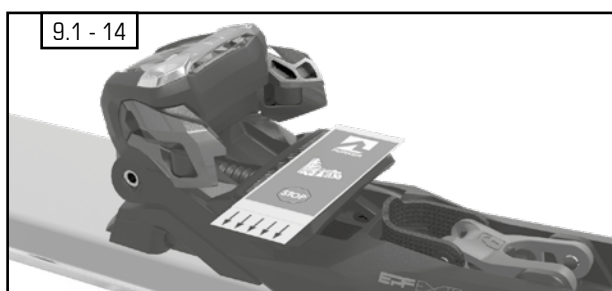
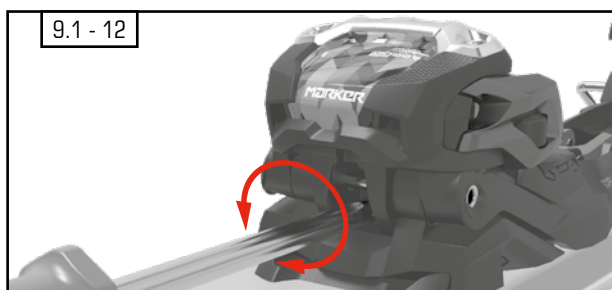
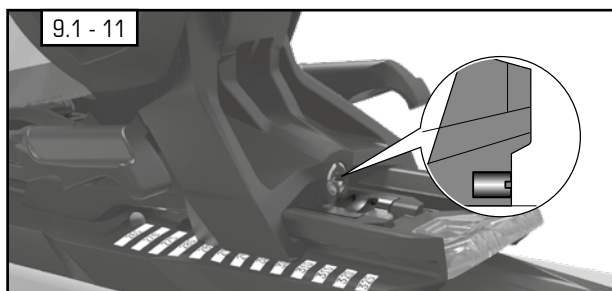
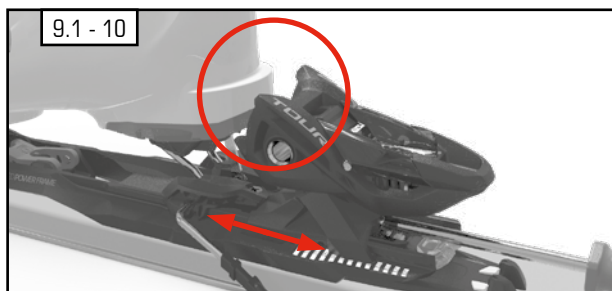
- Press down the TOUR plate and switch the engagement lever to the locked position (9.1 - 8). Check that the TOUR plate is fully and uniformly sliding into the heel plate attachments.



CAUTION !

Ensure that the TOUR plate is fully and uniformly sliding into the heel plate attachments when the engagement lever is closed (9.1 - 9).

9.1 INSTALLATION OF MARKER F 12 TOUR EPF & 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 correct (9.1 - 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 (9.1 - 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 (9.1 - 12 / 9.1 - 13).

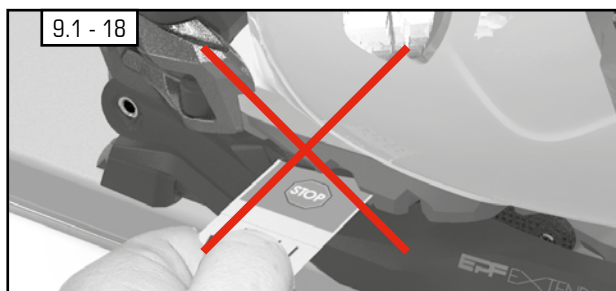
- Place the height test strip on the gliding AFD with the red marked side up (9.1 - 14).

- Place the ski boot into the binding and close it. (9.1 - 15 and 9.1 - 16)

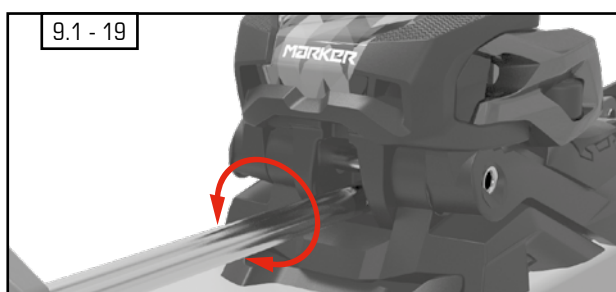
9.1 INSTALLATION OF MARKER F 12 TOUR EPF & F 10 TOUR



- Pull out the lower part of the test strip carefully. (9.1 - 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. (9.1 - 18)



- Adjust the height of the gliding AFD by turning the adjustment screw (9.1 - 19) so that you can pull out the green marked lower part of the test strip just before it tears (9.1 - 20 and 9.1 - 21).



CAUTION !

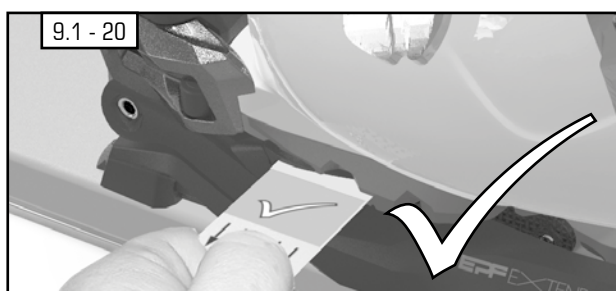
Ski boots with overdimensioned soles should be modified by a specialty retailer !

CHECK FORWARD PRESSURE:

- Place the ski boot into the binding and close it.
- Check if the forward pressure adjustment screw is flush with the back of the heel housing.

If this adjustment is incorrect, turn the screw until it is flush with the back of the housing. (9.1 - 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.

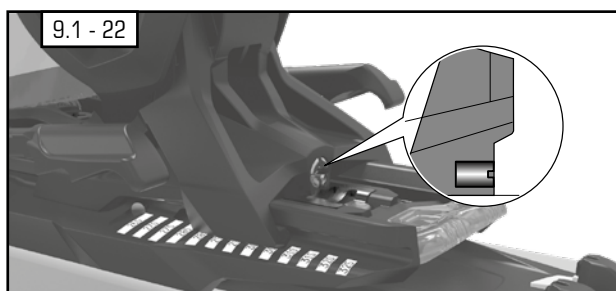
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3



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. → 20.3



IMPORTANT !

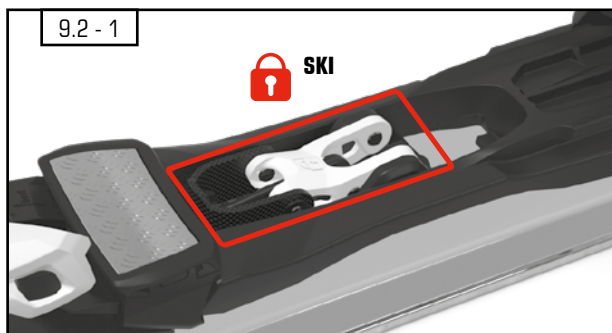
See INFORMATION FOR THE SKIER

→ 9.2

→ 9.3

→ 9.4

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

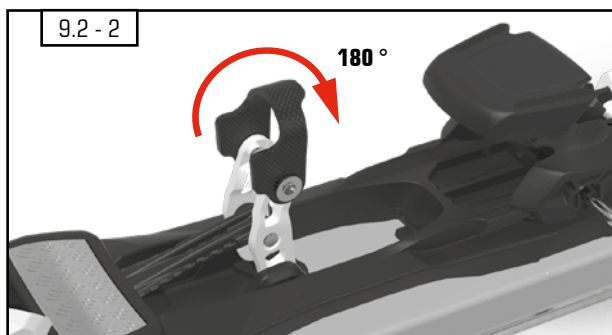


ADDITIONAL INFORMATION FOR THE MARKER F 12 TOUR EPF & F 10 TOUR

In addition to the system explanations → 20.1 - 20.3, the following instructions must be given to the intended user of a MARKER TOUR

CHANGING FROM SKIING - MODE TO WALKING - MODE:

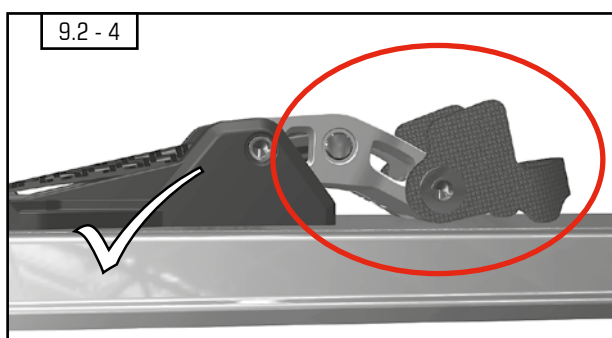
The TOUR engagement lever is located in the middle of the system plate.



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



In order to change from the skiing - mode (locked position, 9.2 - 1) to the walking - mode (unlocked position, 9.2 - 3) switch the lever 180° backward (9.2 - 2)

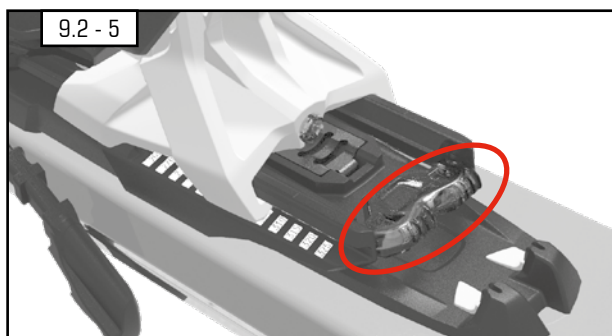


IMPORTANT !

The engagement lever has to be switched completely to the walk position, the lever has to be flush with the ski's top (9.2 - 4)

USING THE HIKING - AID:

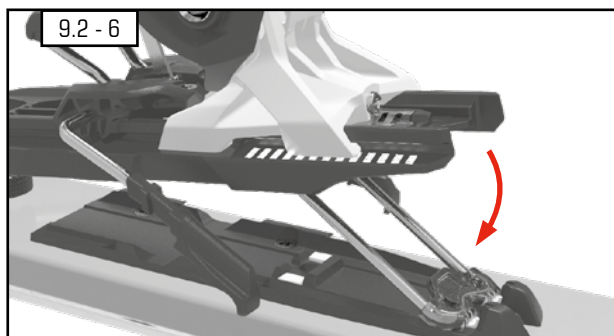
You can use the hiking - aid (9.2 - 5) in two positions when you are in the walking - mode.



IMPORTANT !

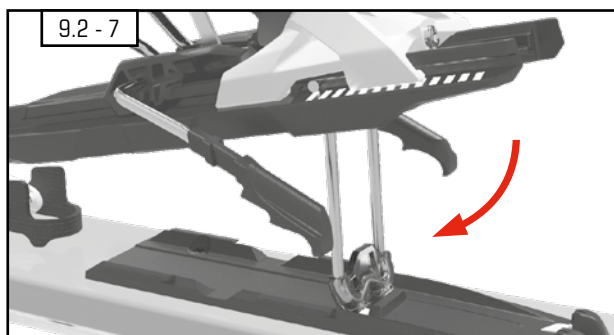
Point out to the customer that the function of the climbing aid can be affected (the climbing aid can fold up) when the engagement lever is not completely switched to the walk position (flush with the ski top surface).

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



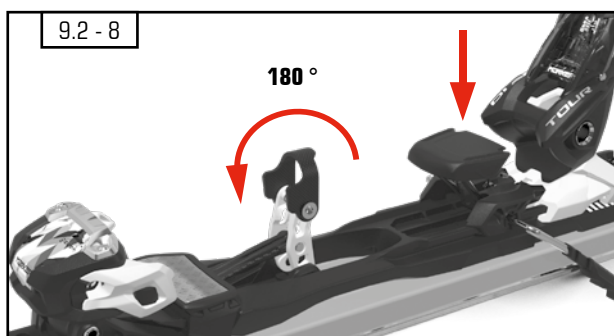
HIKING AID LOW POSITION

Fold the hiking - aid downward with the ski pole or by hand to the 7 ° position (9.2 - 6).



HIKING AID HIGH POSITION:

- Fold the hiking aid down with the ski pole or by hand to the 13 ° position. (9.2 - 7)



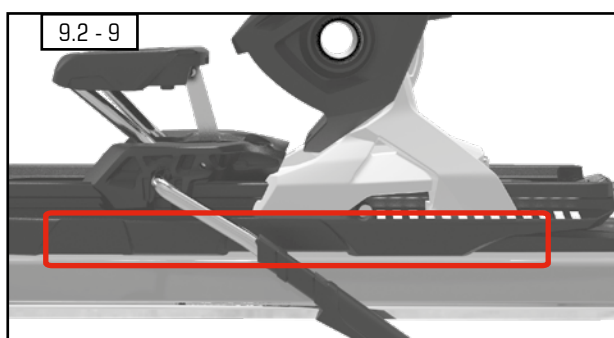
HIKING AID BASIC POSITION:

- 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 !



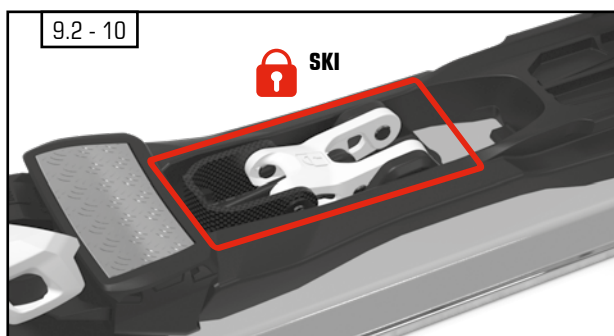
In order to change from the walking - mode (unlocked position) to the skiing - mode (locked position) switch the lever 180° forward (9.2 - 8).



CAUTION !

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

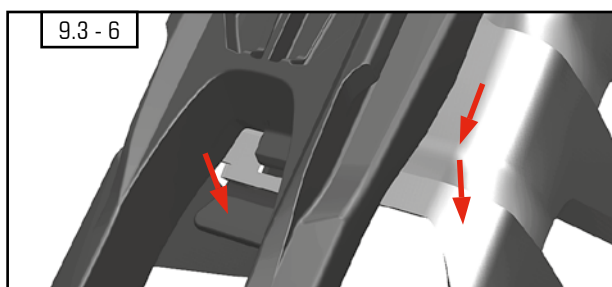
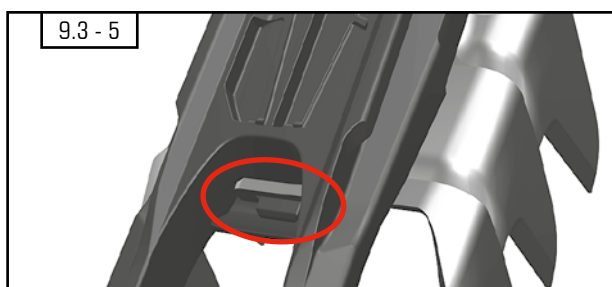
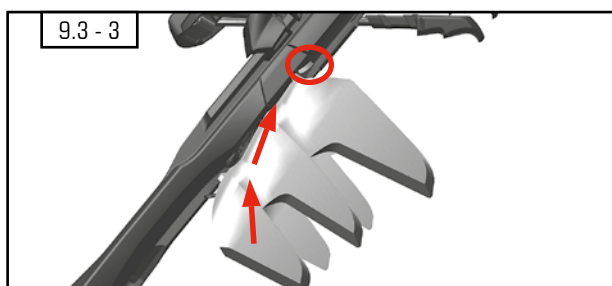
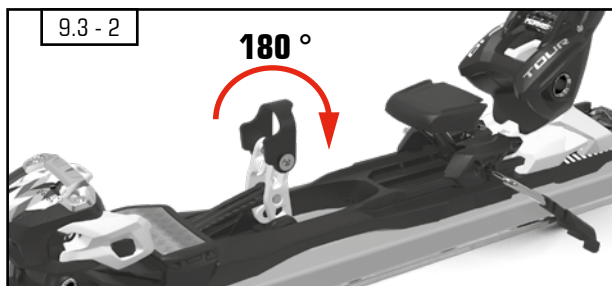
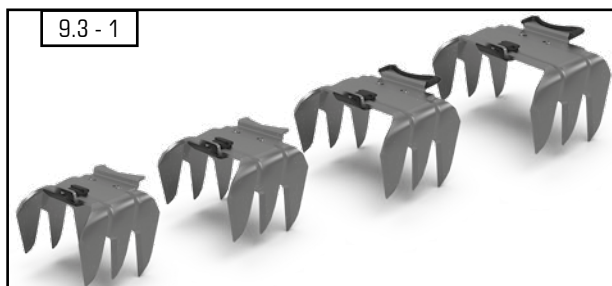
Assure that the TOUR plate is fully and uniformly sliding into the heel plate attachments (9.2 - 9) !



CAUTION !

Do not ski in the walking - mode (unlocked position) (9.2 - 10) !

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



CRAMPONS:

MARKER offers special crampons for the MARKER F 12 Tour EPF & F 10 Tour (9.3 - 1)

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

ATTACHING THE CRAMPONS:

- Open the engagement lever to the walking - mode (9.3 - 2).

- Lift the plate and attach the crampon from below by sliding it backwards (9.3 - 3).



CAUTION !

Ensure that the crampon is properly engaged in the plate. (9.3 - 4 and 9.3 - 5)



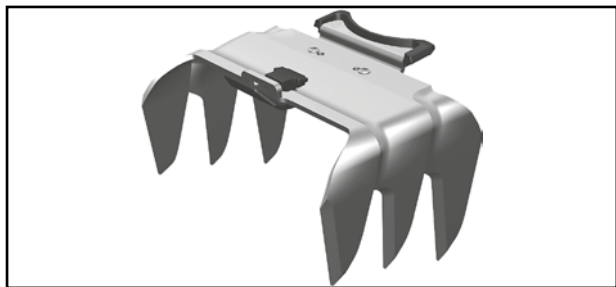
CAUTION !

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 (9.3 - 6).

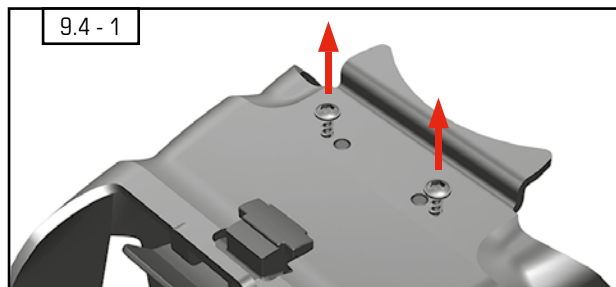
9.4 INFORMATION FOR THE SKIER - F 12 TOUR EPF & F 10 TOUR



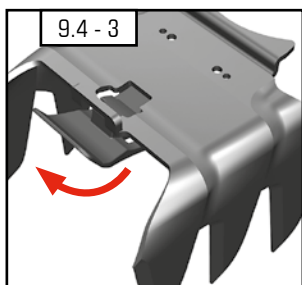
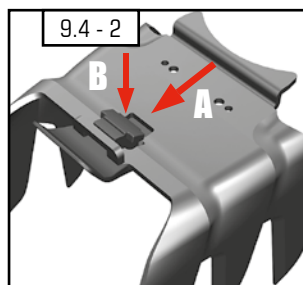
ADAPTER FOR CRAMPONS:

For fitting the crampon to the plate of the F12 TOUR EPF the accompanying crampon adapter must be mounted on the crampons.

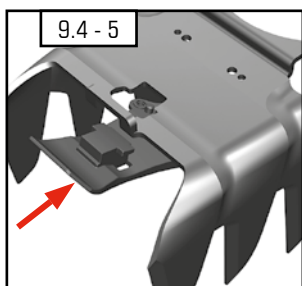
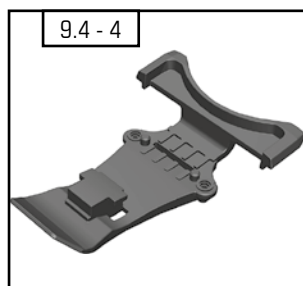
(Exception: crampon 128mm H004M1A & 113 mm H002N1A with premounted adapter)



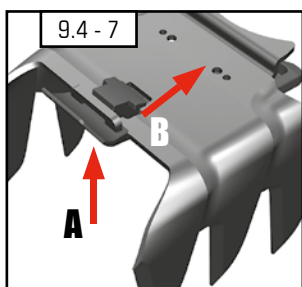
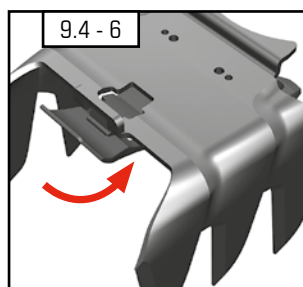
- Remove the screws (9.4 - 1)



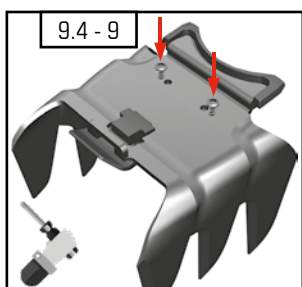
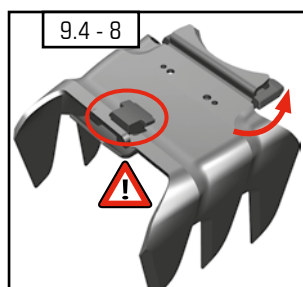
- Push the clamp down and towards the front, away from the crampon. (9.4 - 2 and 9.4 - 3)



- Fit the adapter (9.4 - 4) from the front / bottom to the crampon as shown. (9.4 - 5 and 9.4 - 6)

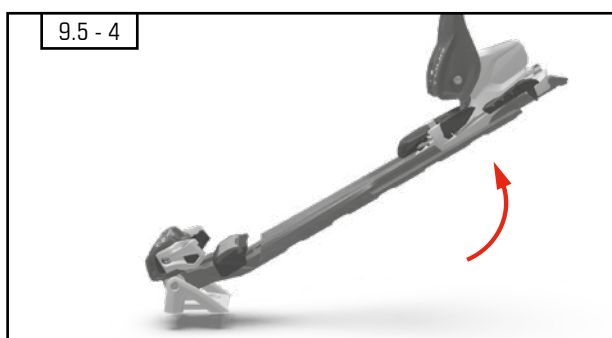
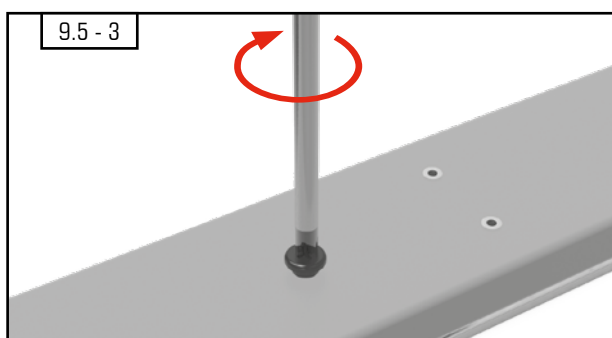
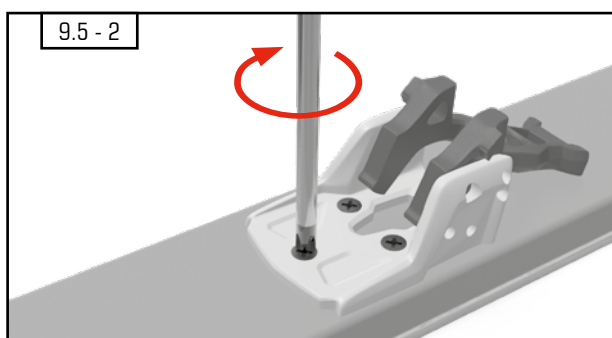
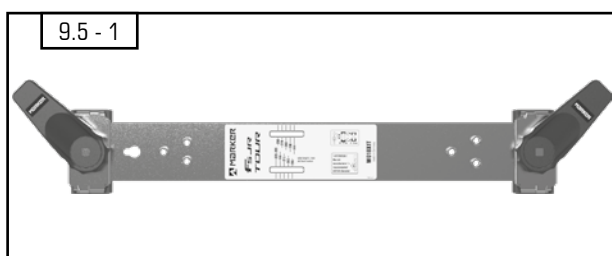


- Push the crampon adapter upwards and towards the back until it clicks into place. (9.4 - 7 and 9.4 - 8)



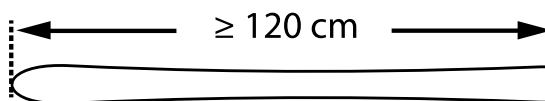
- Fit the screws and tighten them by hand. (9.4 - 9)

9.5 INSTALLATION OF MARKER F5 JR TOUR



NOTE:

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



NOTE:

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

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for children DIN ISO 5355 (type C)
- Alpine ski boots for adults DIN ISO 23223 with the additional marking "GripWalk®"
- Alpine ski boots for children DIN ISO 23223 (type C) with the additional marking "GripWalk®"
- Touring ski boots for adults DIN ISO 9523

DRILLING THE ATTACHMENT HOLES:

- Place the MARKER F5 JR TOUR installation tool W018X1T (9.5 - 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

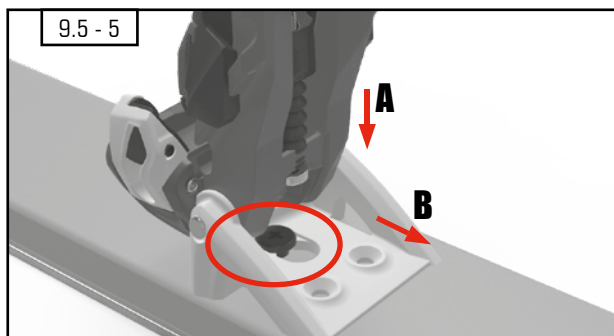
INSTALLING THE HEEL PLATE:

- Install the F5 JR TOUR heel plate with the 3 pre - installed screws. (9.5 - 2)

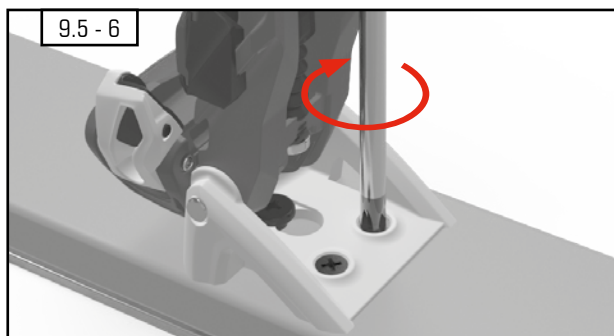
INSTALLING THE TOE / TOE PLATE:

- Tighten the center post screw by hand. Tighten the screw lightly, then firmly (9.5 - 3)
- Open the binding (9.5 - 4)

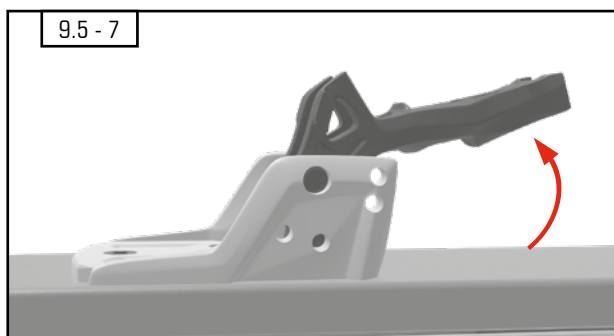
9.5 INSTALLATION OF MARKER F5 JR TOUR



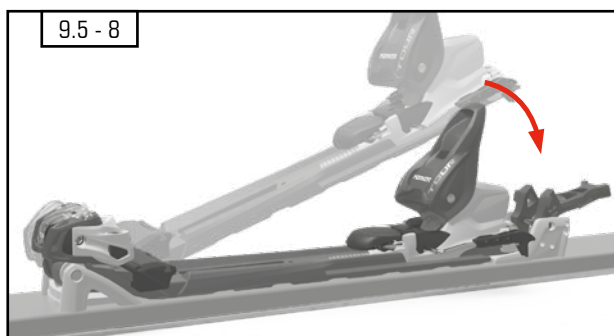
- Place the binding from the top on the centering screw and push it backwards. (9.5 - 5)



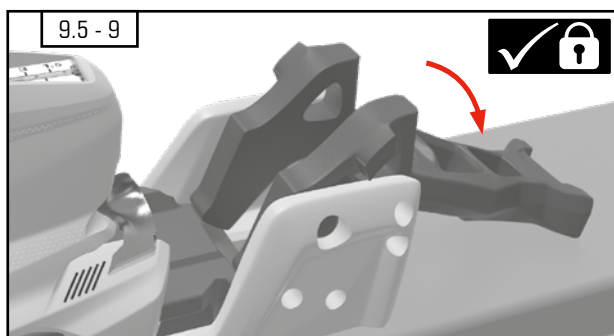
- Insert and tighten the 2 front screws. (9.5 - 6)



- Swivel the change-over lever upwards/forwards until it clicks into the first catch. (9.5 - 7)

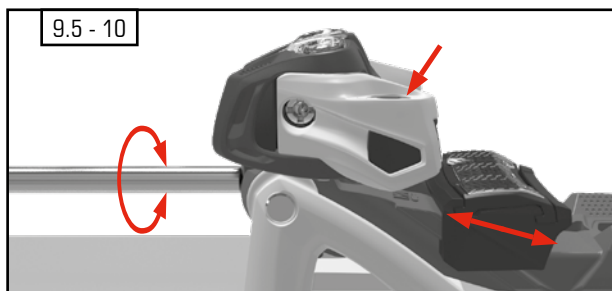


- and lower the binding afterwards (9.5 - 8).



- 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 (9.5 - 9).

9.5 INSTALLATION OF MARKER F5 JR TOUR

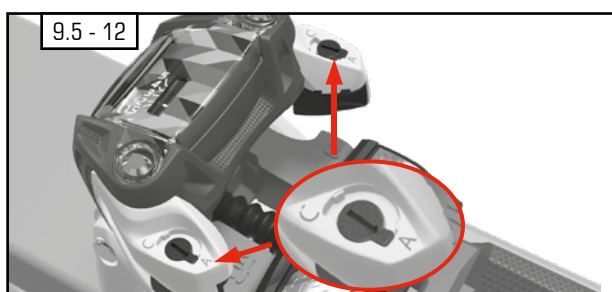


HEIGHT ADJUSTMENT GLIDING PLATE AND TOE SOLEHOLDERS:

- 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 on the top of the sole holders. (9.5 - 10)



- Determination of the sole type (9.5 - 11).

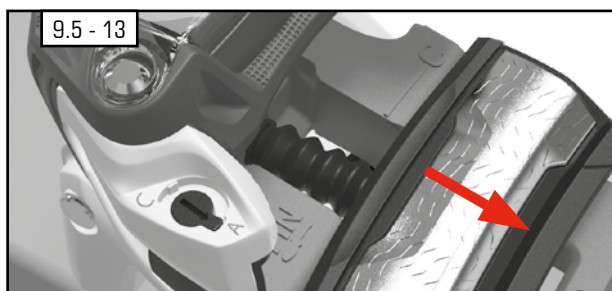


HEIGHT ADJUSTMENT FOR BOOTS TYPE A (adults)

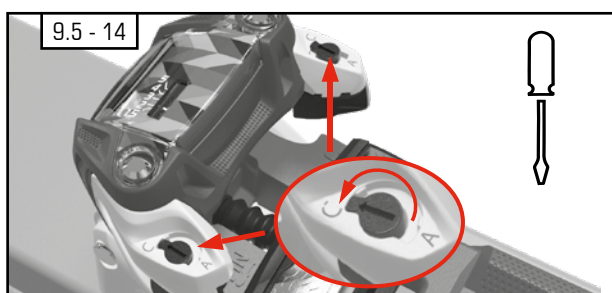
(delivery setting)

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

- The indicators of the height adjustment screws of both sole holders must point to setting "A". (9.5 - 12)



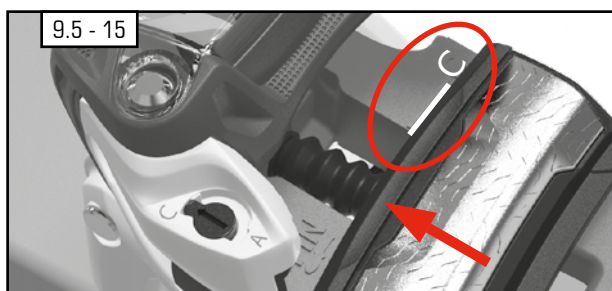
- The gliding AFD has to be adjusted to the rear/lower position. (9.5 - 13)



HEIGHT ADJUSTMENT FOR BOOTS TYPE C (children)

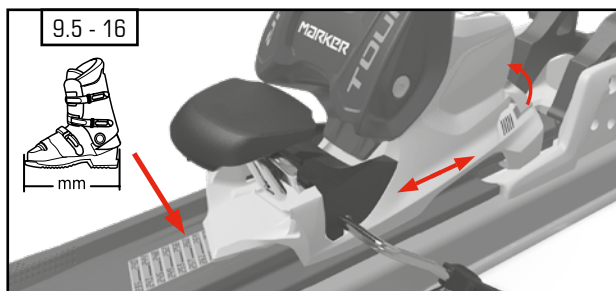
Alpine ski boots for children according to DIN ISO 5355 (type C) and
Alpine ski boots for adults according to DIN ISO 23223 (type C) with the additional marking "GripWalk®"

- The indicators of the height adjustment screws of both sole holders must point to setting "C". (9.5 - 14)

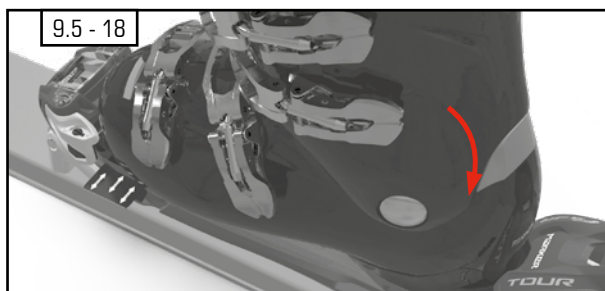
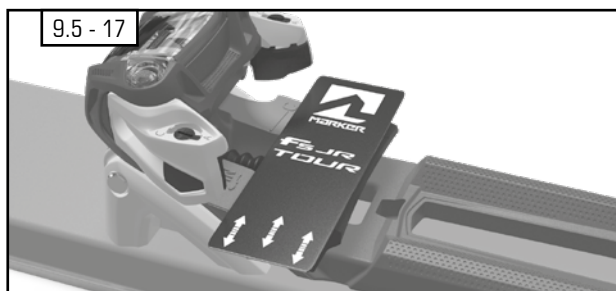


- The gliding AFD has to be adjusted to the front/upper position. (9.5 - 15)

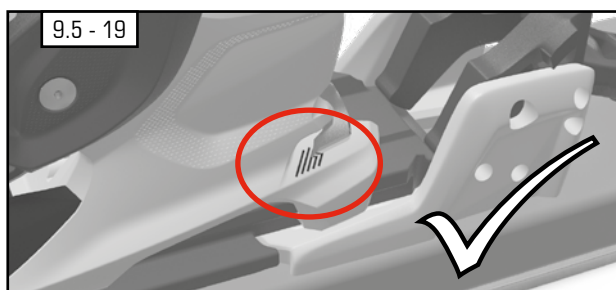
9.5 INSTALLATION OF MARKER F5 JR TOUR



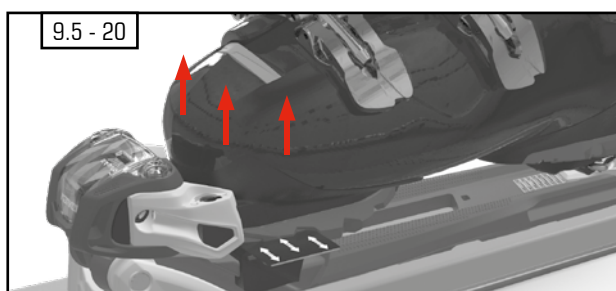
- Lift the heel locking lever and move the heel until the determined sole length corresponds to the length indicated on the length scale on the plate. (9.5 - 16) Close the locking lever.



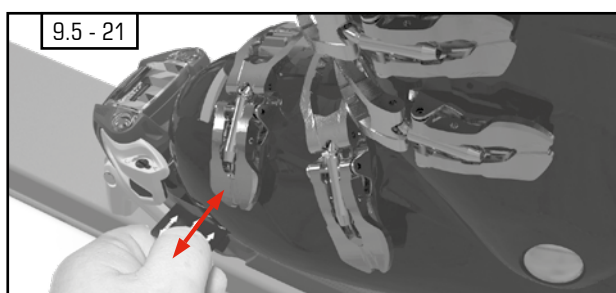
- Place the height test strip on the gliding AFD with the printed side up, place the ski boot into the binding and close it. (9.5 - 17 and 9.5 - 18)



- 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. (9.5 - 19)
If the forward pressure is incorrect: remove the ski boot, lift the lever and move the heel until the forward pressure is correct.

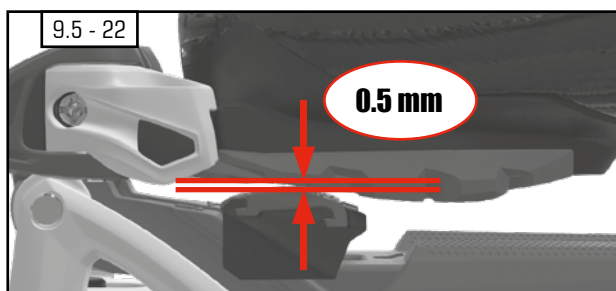


- To check the height adjustment pull the boot upwards. (9.5 - 20)



- Adjust the height of the gliding AFD by turning the adjustment screw so that the test strip is movable with slight resistance. (9.5 - 21)

- The gap between the boot sole and gliding AFD must be 0,5 mm. (9.5 - 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:

→ 17.1 - 17.3



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. → 20.3

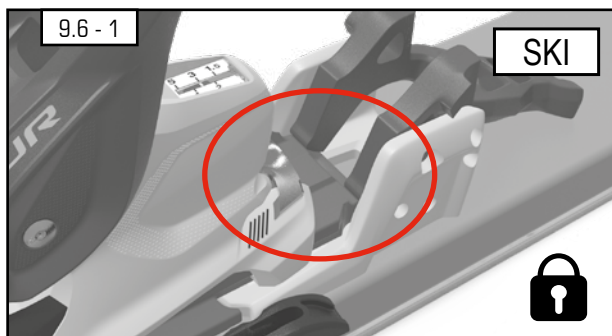


IMPORTANT !

See INFORMATION FOR THE SKIER

→ 9.6

9.6 INFORMATION FOR THE SKIER - F5 JR TOUR



INFORMATION FOR THE SKIER - F5 JR TOUR

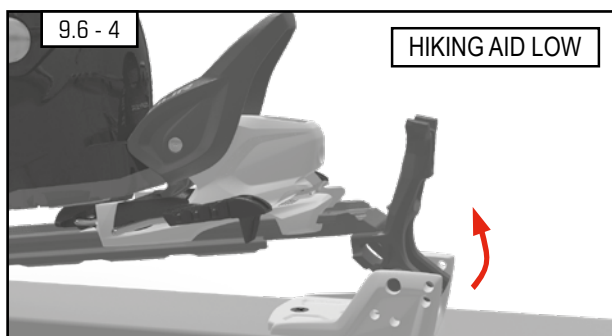
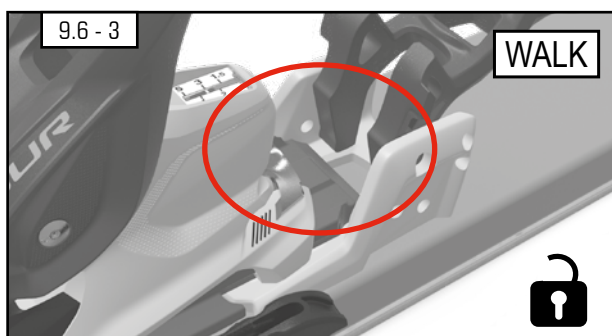
In addition to the system explanations → 20.1 - 20.3, the following instructions must be given to the intended user of a F5 JR TOUR binding

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)..



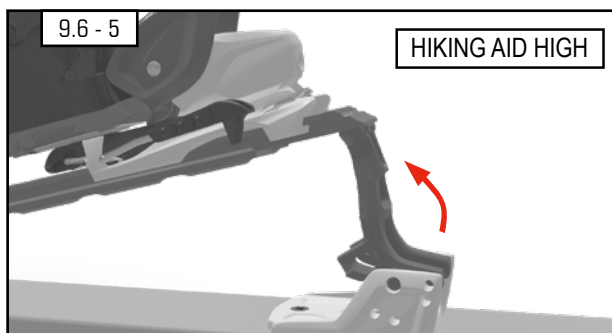
In order to change over from descent (9.6 - 1) to ascent mode (9.6 - 3) and be able to walk with the binding, swivel the lever upwards/forwards (9.6 - 2) with your hand or ski pole until it clicks into the first catch.



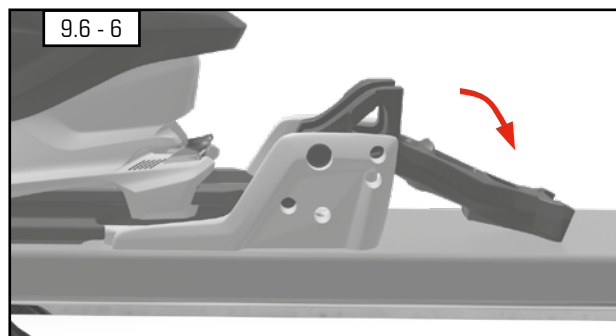
USING THE HIKING AID:

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. (9.6 - 4 and 9.6 - 5)

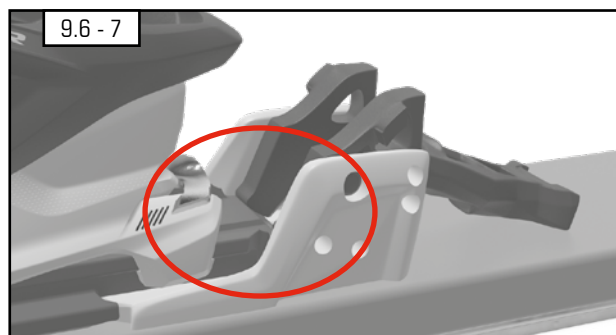


9.6 INFORMATION FOR THE SKIER - F5 JR TOUR

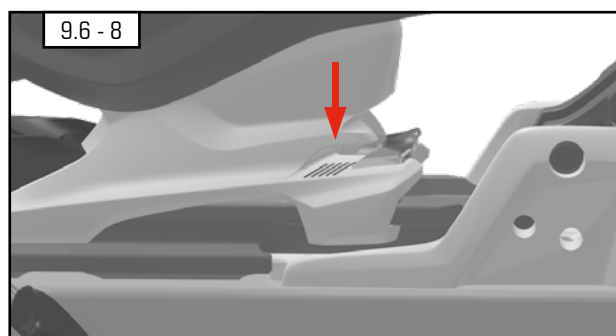


CHANGE - OVER FROM HIKING TO SKIING POSITION:

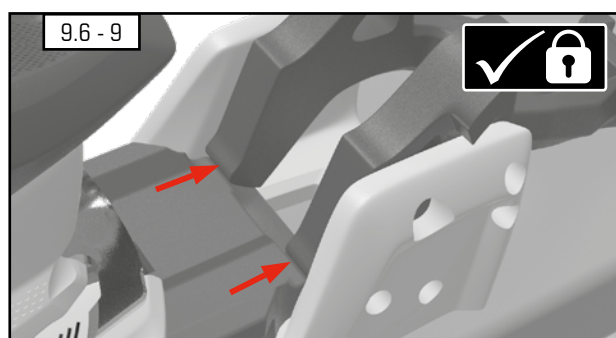
To switch from ascent to descent mode in order to ski with the binding, swivel the lever back into the starting position. (9.6 - 6)



the lever must rest on the ski surface and the end of the plate must be held firmly in place. (9.6 - 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 (9.6 - 8).



Ensure that the binding is completely secured in place in descent mode. (9.6 - 9)

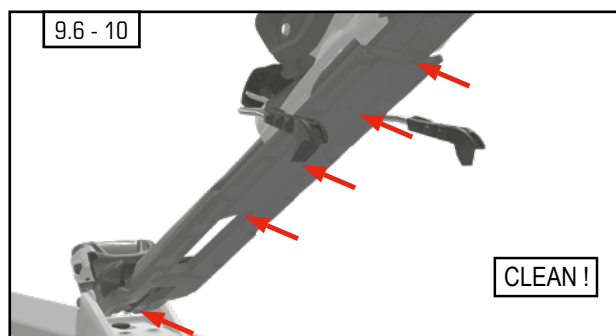


CAUTION !

For skiing purposes, the binding may only be used in skiing mode (9.6 - 9) !

NOTE:

Changing over from hiking to skiing mode, the binding must be freed from snow, ice and dirt ! (9.6 - 10)



CRAMPONS:

MARKER offers special crampons for the MARKER F5 JR Tour

Crampon F5 JR Tour; 88 mm Art.-Nr. H008Z1A

Installation of crampons F5 JR Tour → 21.7

MARKER COMPETITION MODELS



For racers MARKER offers special competition ski bindings (Comp 30 & Comp 20) with higher release values.



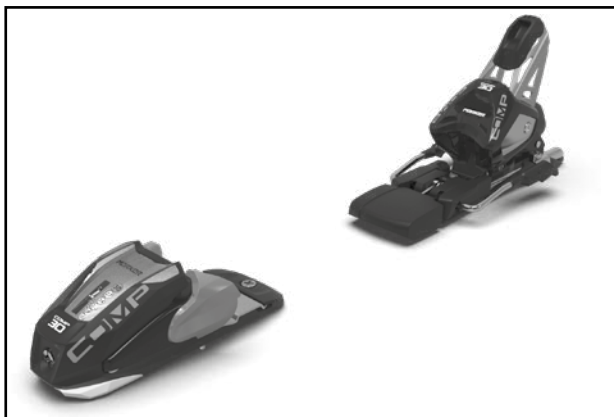
IMPORTANT !

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

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

see → **18.1** Special cases (page 152)

10.1 INSTALLATION OF COMP 30 & COMP 20 MODELS



REMARK:

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

DRILLING THE ATTACHMENT HOLES:

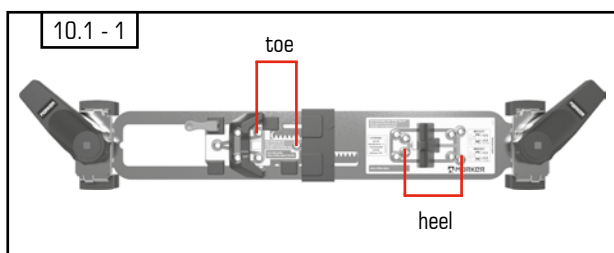
See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T (10.1 - 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 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. (10.1 - 2)

INSTALLING THE HEEL:

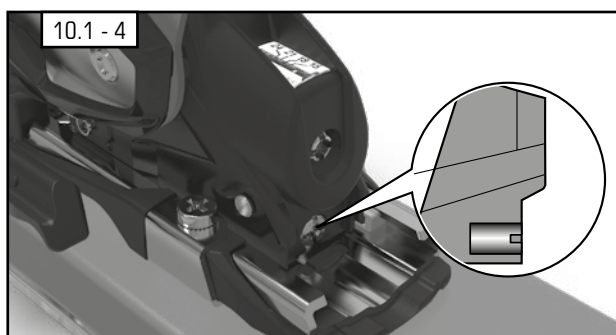
- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly. (10.1 - 3)

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. (10.1 - 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 individual setting (Z) for the skier must be determined and adjusted.

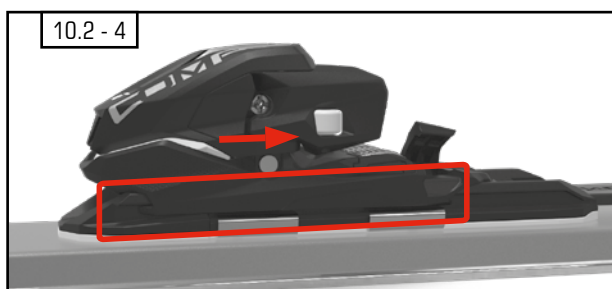
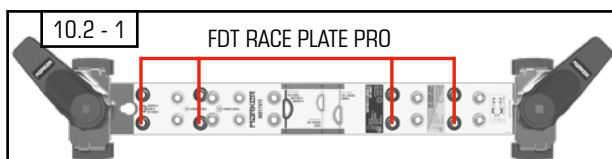


All information provided by the customer as well as the set release values (Z) must be recorded in a test certificate and the skier must be made aware of the risks associated with the use of competition bindings

→ page 104

→ 20.3

10.2 INSTALLATION OF COMP FDT MODELS



IMPORTANT !

Comp FDT models are designed to mount only in conjunction with the FDT plate system.

REMARK: The binding models Comp FDT GripWalk are designed for the following standard boot soles:

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

DRILLING THE ATTACHMENT HOLES:

- Place the FDT installation tool W017V1T (10.2 - 1) onto the ski and align the mid-sole mark »FDT Adult« 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.
- Remove the installation tool from the ski.

REMARK:

See the DRILLING INSTRUCTIONS → 3.2

INSTALLATION OF THE FDT RACE PLATE PRO:

REMARK: for the installation of the FDT Race plate Pro a Torx wrench T 20 is needed.

- Place the FDT plate onto the ski, tighten the front plate screws lightly, then firmly.
- Tighten the heel plate screws lightly, then firmly. (10.2 - 2)

INSTALLING THE TOE:

- Open the locking lever and slide the toe piece from the front onto the plate. (10.2 - 3)
- Slide the toe backwards. (10.2 - 4)



CAUTION !

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

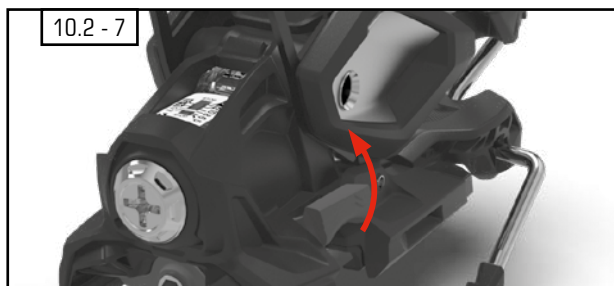
- Slide the toe to the correct sole length in accordance with the front sole length scale. (10.2 - 5)

10.2 INSTALLATION OF COMP FDT MODELS



- Close the toe locking lever. (10.2 - 6)

INSTALLING THE HEEL:

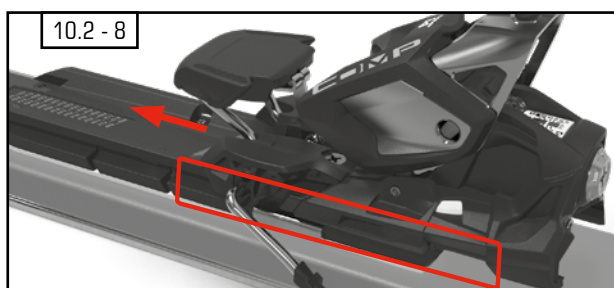


- Open the heel locking lever and slide the heel onto the plate starting from the rear. (10.2 - 7)
- Slide the heel forward. (10.2 - 8)



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. (10.2 - 9)
- Close the heel locking lever. (10.2 - 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. (10.2 - 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:

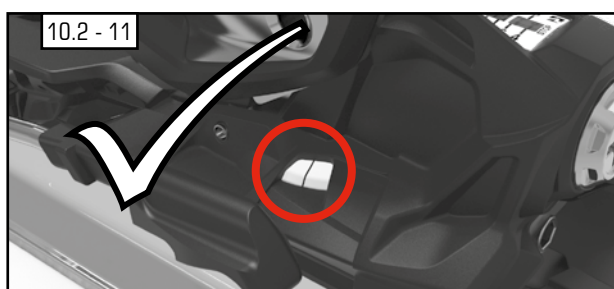
→ 17.1 - 17.3



REMARK:

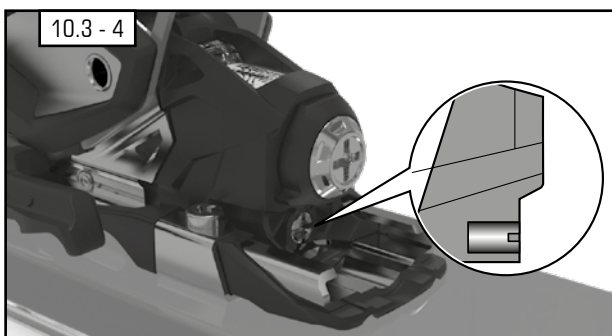
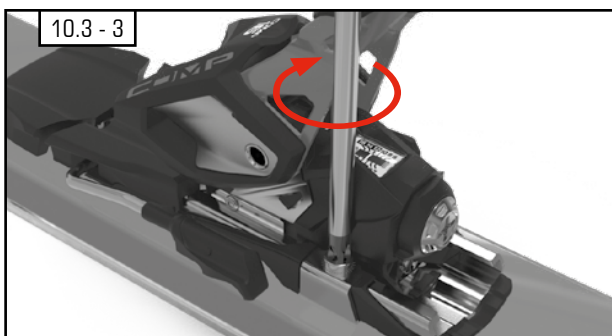
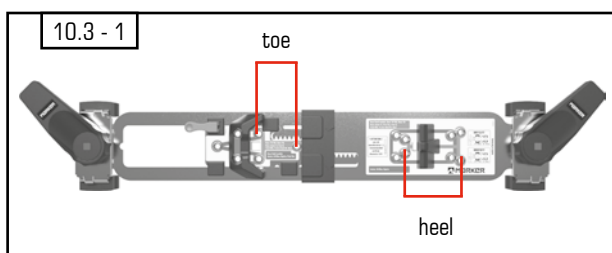
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 19.5



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: → 20.3

10.3 INSTALLATION OF MARKER COMP / COMP GRIPWALK



REMARK:

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 GW, Comp 14 GW and Comp 12 GW are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN 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 (10.3 - 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 (10.3 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (10.3 - 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. (10.3 - 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:

→ 17.1 - 17.3



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. → 20.3

10.4 INSTALLATION OF COMP 10 TCX & COMP 10



REMARK:

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

DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T (10.4 - 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 (10.4 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (10.4 - 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. (10.4 - 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.

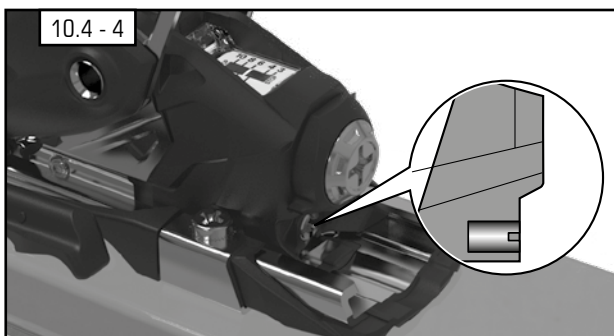
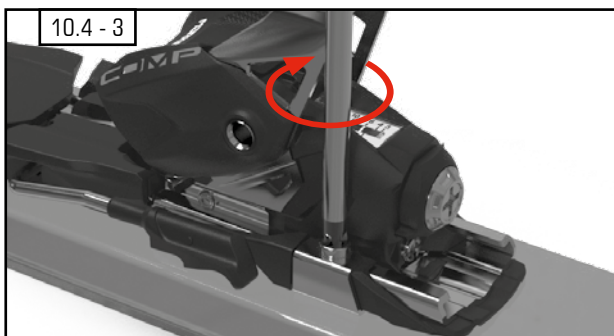
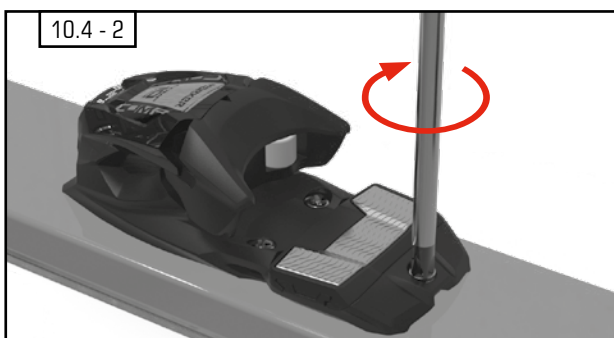
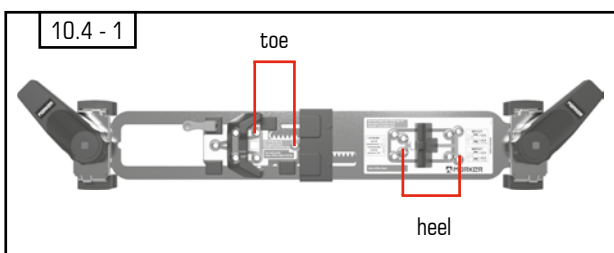
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3

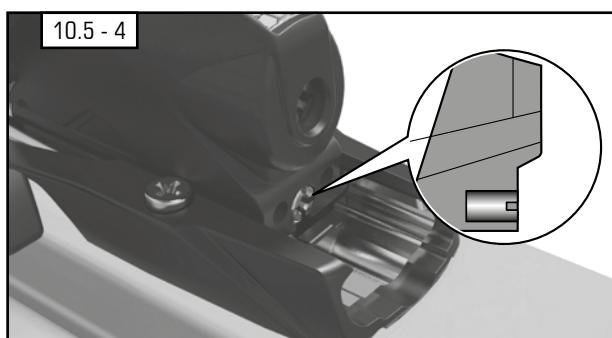
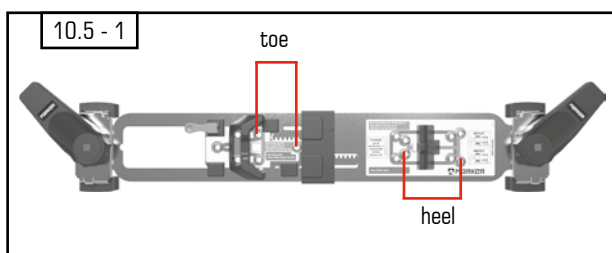
CAUTION !



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. → 20.3



10.5 INSTALLATION OF COMP JUNIOR 8



REMARK:

The binding models Comp Junior 8 may only be used with alpine ski boots for children DIN ISO 5355 type C.

DRILLING THE ATTACHMENT HOLES:

See ADJUSTMENT OF INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T (10.5 - 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 (10.5 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (10.5 - 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. (10.5 - 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.

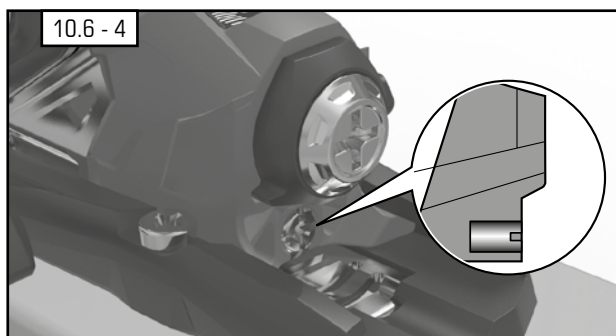
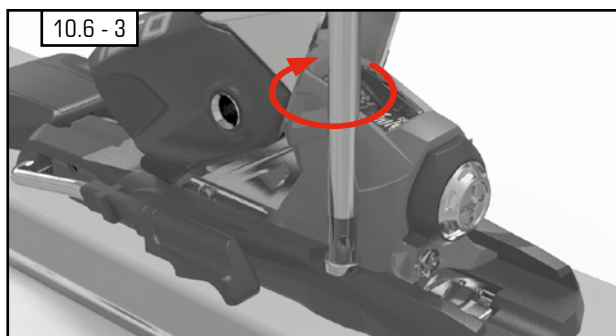
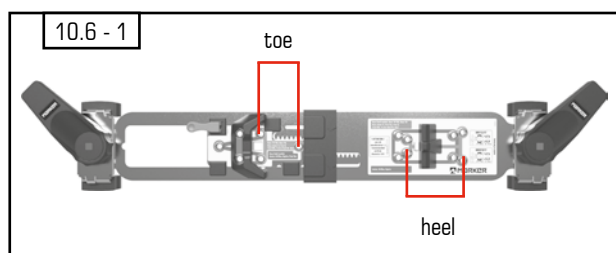
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3



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. → 20.3

10.6 INSTALLATION OF 12.0 TPX & 11.0 & 10.0 TP GRIPWALK



REMARK:

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

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN 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 (10.6 - 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 (10.6 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly (10.6 - 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. (10.6 - 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:

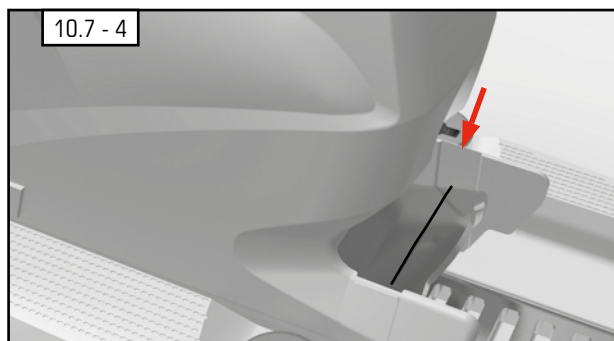
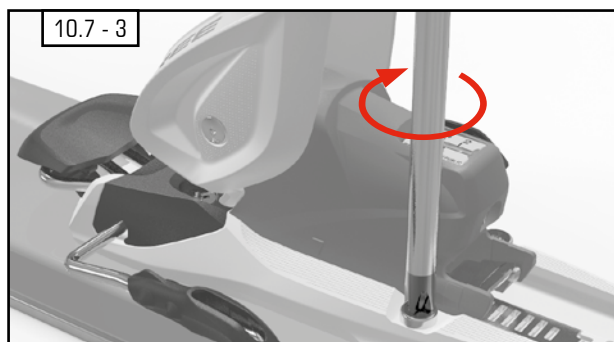
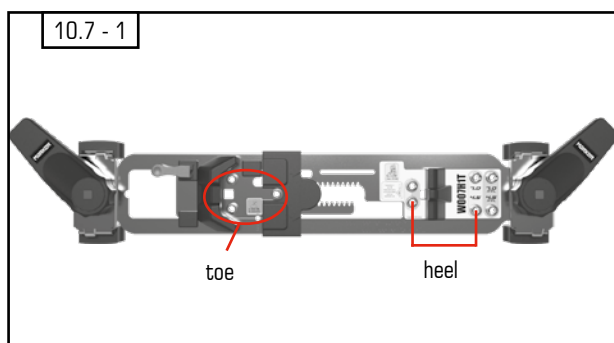
→ 17.1 - 17.3



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: → 20.3

10.7 INSTALLATION OF FREE 7 / 7.0 / 4.5 GRIPWALK



REMARK:

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

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

DRILLING THE ATTACHMENT HOLES:

ADJUSTMENT OF THE INSTALLATION TOOLS. → 3.2

- Place the MARKER installation tool W007H1T (10.7 - 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. (10.7 - 2)

INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly. (10.7 - 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 (10.7 - 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:

→ 17.1 - 17.3



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. → 20.3

11.1 INSTALLATION OF INTERFACES

WORLD CUP ALU PRO PLATE



WORLD CUP PC INTERFACE 14 mm



WORLD CUP PC INTERFACE 10 mm



RACE PLATE PRO



FDT RACE PLATE PRO



COMP DEMO PLATE



JUNIOR RACE INTERFACE PIVOT



JUNIOR RACE INTERFACE SHORT



GENERAL INFORMATION:



CAUTION !

MARKER guarantees proper braking function with their ski bindings only if lifters and plates are used that are offered and recommended by MARKER.

It is your responsibility as a MARKER certified technician to check the compatibility and the function of the ski, binding, ski brake, plate and boot components.

Assemble them together as a unit and then test the system to verify that it performs as intended. Occasionally check the function of the ski brake.

REMARK:

FIS - regulation for stand heights (ski + plate + binding):

Children max. 50 mm

Junior (15 years and older) / Adult max. 50 mm



IMPORTANT !

All new MARKER bindings which are delivered together with lifters and plates are checked and confirmed by TÜV and can be installed without any problems.

WORLD CUP ALU PRO PLATE: see → 11.2

WORLD CUP PC INTERFACE 14 mm: see → 11.3 & 11.5

WORLD CUP PC INTERFACE 10 mm: see → 11.4 & 11.5

RACE PLATE PRO

recommended for Comp 16 & 16 GW, Comp 12 & 12 GW

FDT RACE PLATE PRO

recommended for Comp FDT / FDT High Performance models

COMP DEMO PLATE

recommended for Comp FDT / FDT High Performance models

JUNIOR RACE INTERFACE PIVOT & JUNIOR RACE INTERFACE SHORT
(plate premounted)

Junior Race Interface Pivot: sole length 230 - 335

Junior Race Interface short: sole length 190 - 295



CAUTION !

Do not install Competition models Comp 30 & 20 !

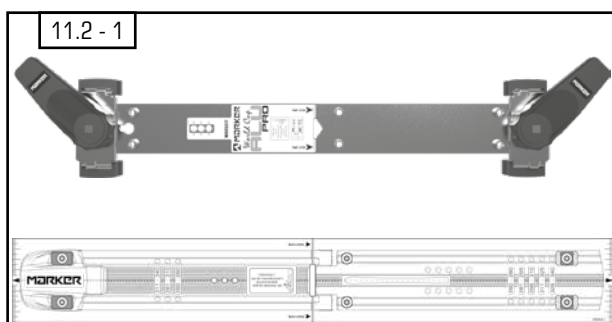
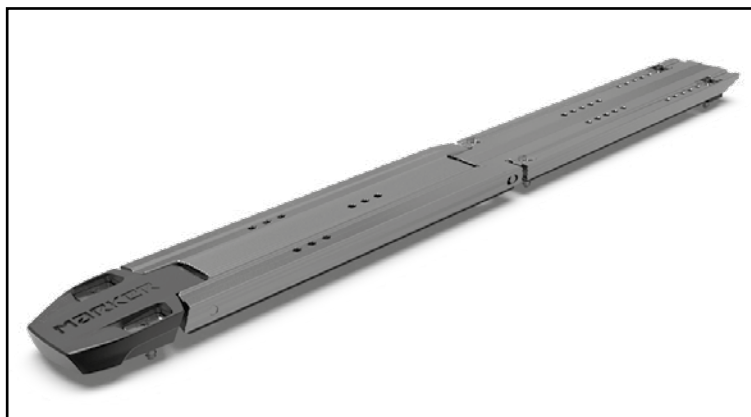
BINDING INSTALLATION:

see Installation of Comp 16 & 12 → 10.3

see Installation of Comp 10 & Comp 10 TCX → 10.4

see Installation of Comp Junior 8 → 10.5

11.2 WORLD CUP ALU PRO PLATE

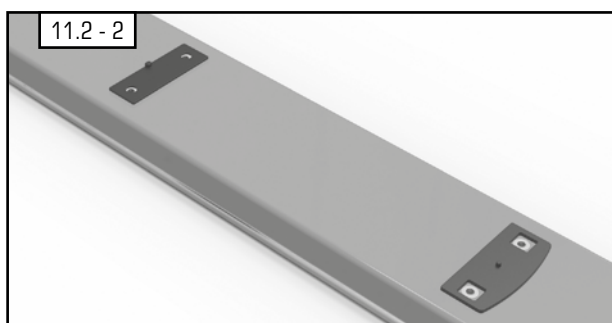


DRILLING THE ATTACHMENT HOLES:

- Place the ALU PRO PLATE installation tool W005S1T (or foil mounting jig 840038) in the correct position on the ski. (11.2 - 1)
- Drill 6 holes for the plate through the drill bushings.
- Remove the installation tool from the ski.

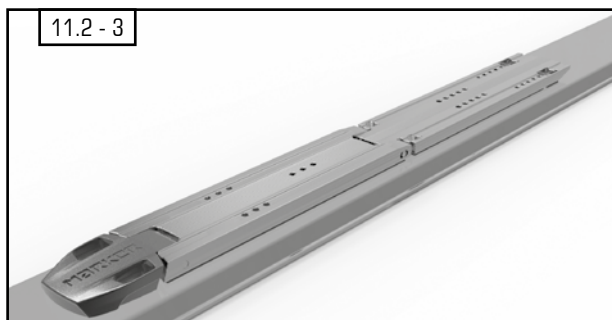
REMARK:

See DRILLING INSTRUCTIONS → 3.2

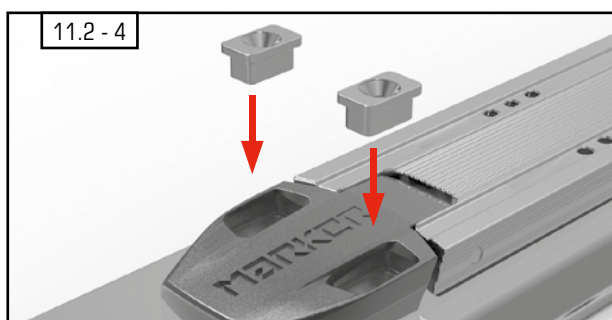


INSTALLATION OF THE ALU PRO PLATE:

- Place the support pads onto the middle and the rear drill holes. (11.2 - 2)

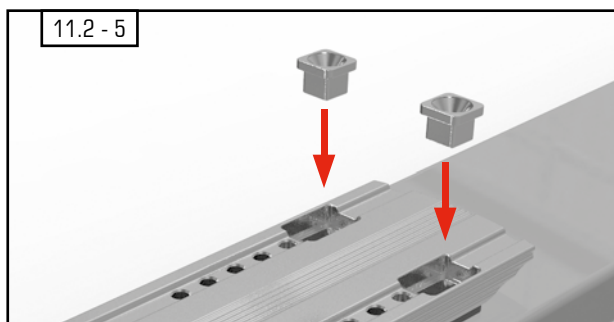


- Place the plate onto the support pads and the ski. (11.2 - 3)

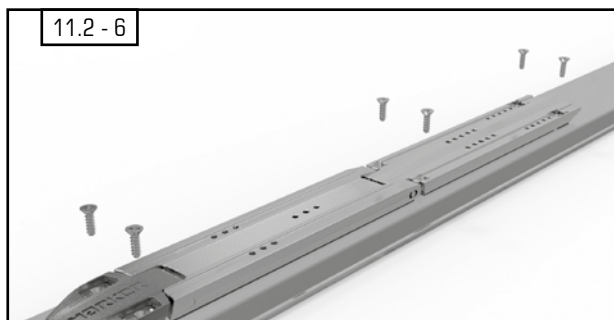


- Insert the fixed bushings to the plate. (11.2 - 4)

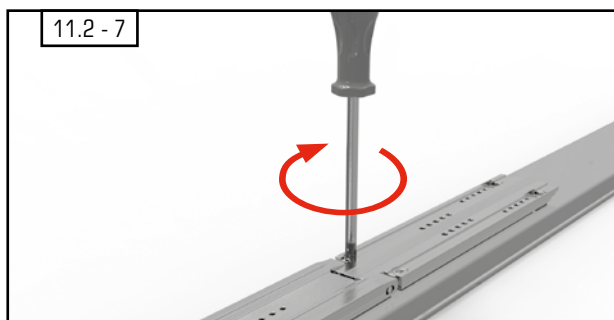
11.2 WORLD CUP ALU PRO PLATE



- Insert the gliding bushings to the plate. (11.2 - 5)



- Install the attachment screws. (11.2 - 6)



BINDING INSTALLATION:

see Installation of Competition models → 10.1

see Installation of Comp models → 10.3

BINDING POSITIONING:

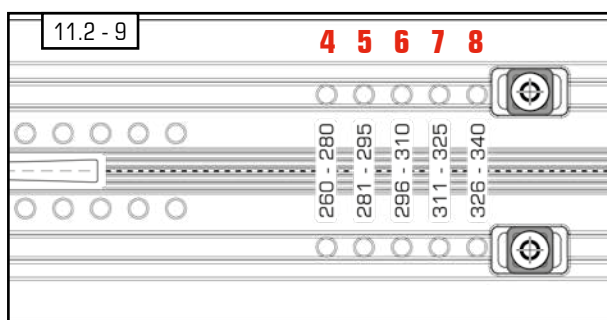
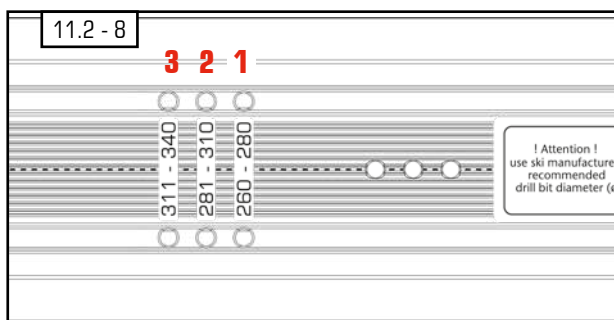
Toe: (11.2 - 8)

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

BINDING POSITIONING:

Heel: (11.2 - 9)

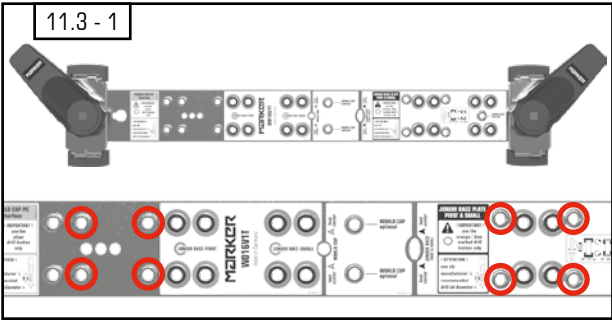
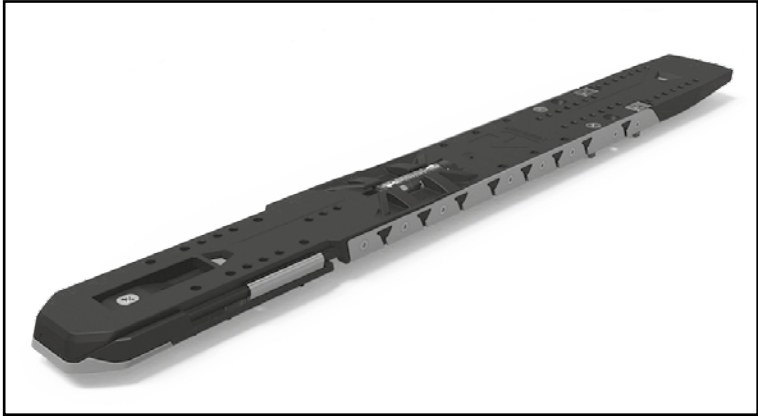
- 4: 260 mm - 280 mm
- 5: 281 mm - 295 mm
- 6: 296 mm - 310 mm
- 7: 311 mm - 325 mm
- 8: 326 mm - 340 mm



SCREW CHART FOR SPACERS

Toe	Comp toe		Heel	Comp heel	
					
+ 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)

11.3 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE 14 mm

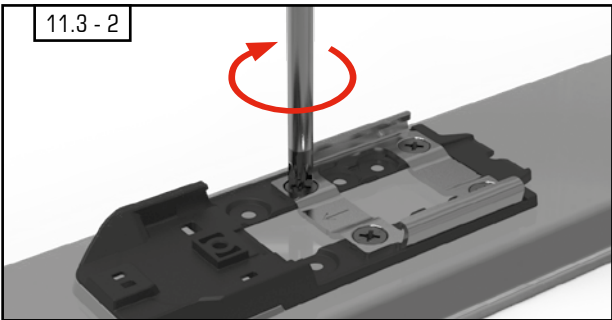


DRILLING THE ATTACHMENT HOLES:

- 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. (11.3 - 1)
- Remove installation tool from the ski.

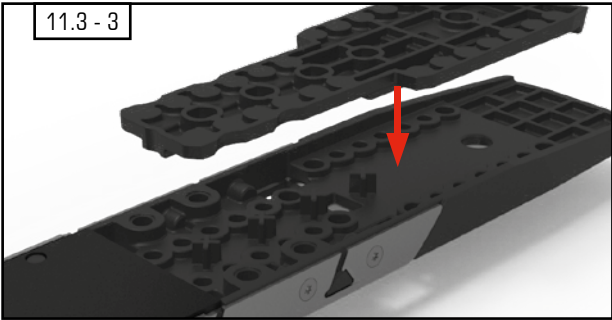
REMARK:

See DRILLING INSTRUCTIONS → 3.2



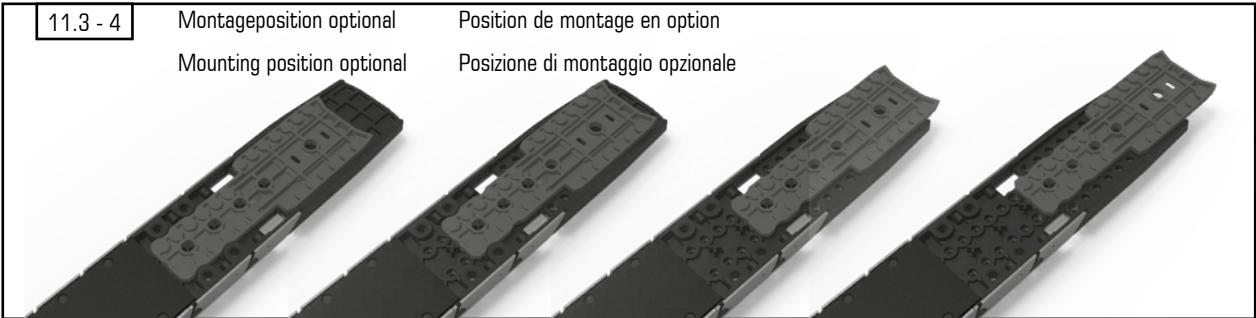
INSTALLATION OF THE WORLD CUP PISTON CONTROL FRONT PLATE:

- Install the World Cup Piston Control front plate with the pre-mounted screws. (11.3 - 2)

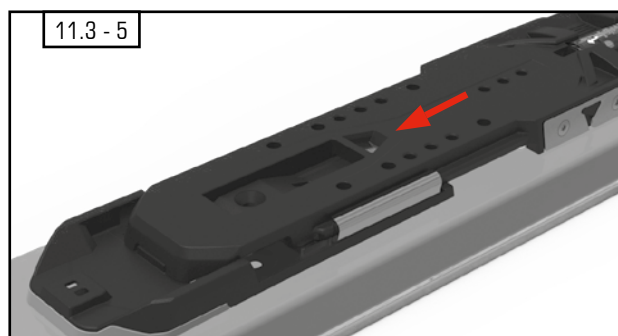


INSTALLATION OF THE WORLD CUP PISTON CONTROL PLATE:

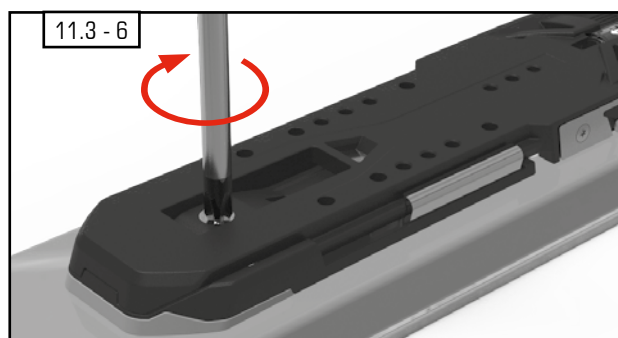
- Insert the Flex element at the chosen position 1 - 4 (Position 3 + 4 for stiffer flex). (11.3 - 3 and 11.3 - 4)



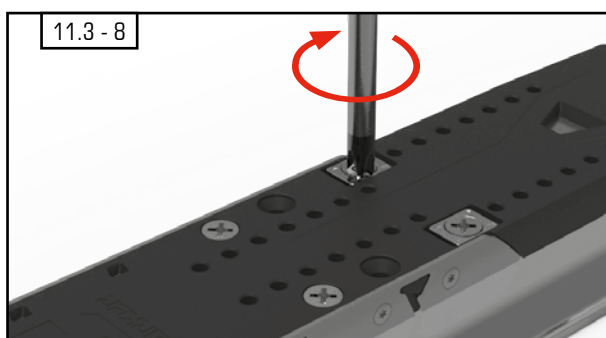
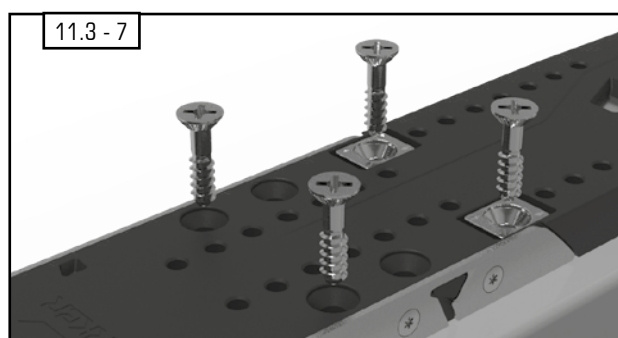
11.3 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE 14 mm



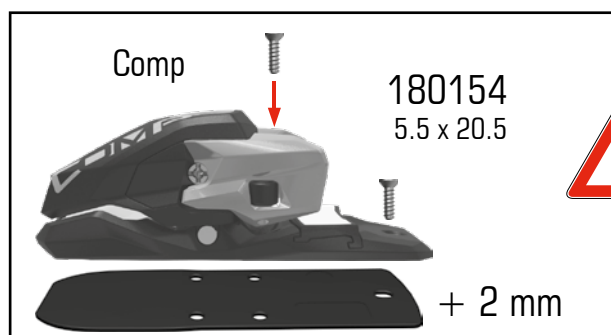
- Slide the World Cup Piston Control plate into the front plate. (11.3 - 5)



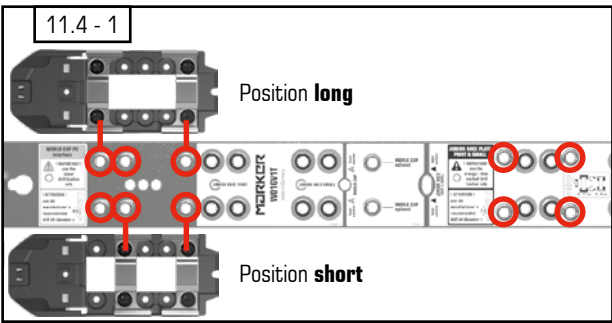
- Connect the World Cup Piston Control plate to the front plate using the front screw. (11.3 - 6)



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



11.4 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. (11.4 - 1)
- Remove installation tool from the ski.

REMARK:

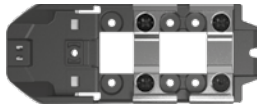
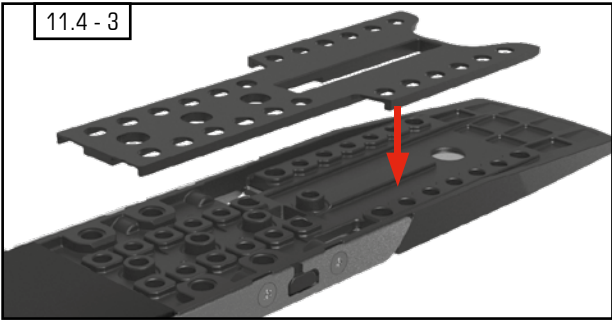
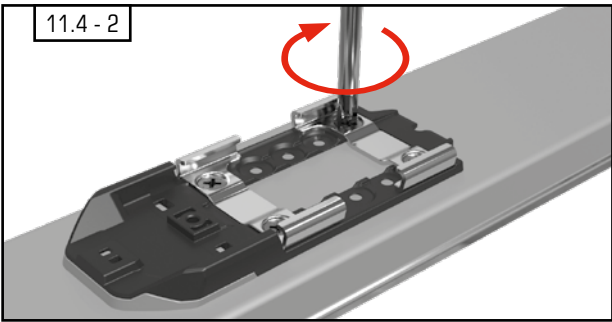
See DRILLING INSTRUCTIONS → 3.2

INSTALLATION OF THE WORLD CUP PISTON CONTROL FRONT PLATE:

- Install the World Cup Piston Control front plate with the pre-mounted screws. (11.4 - 2)

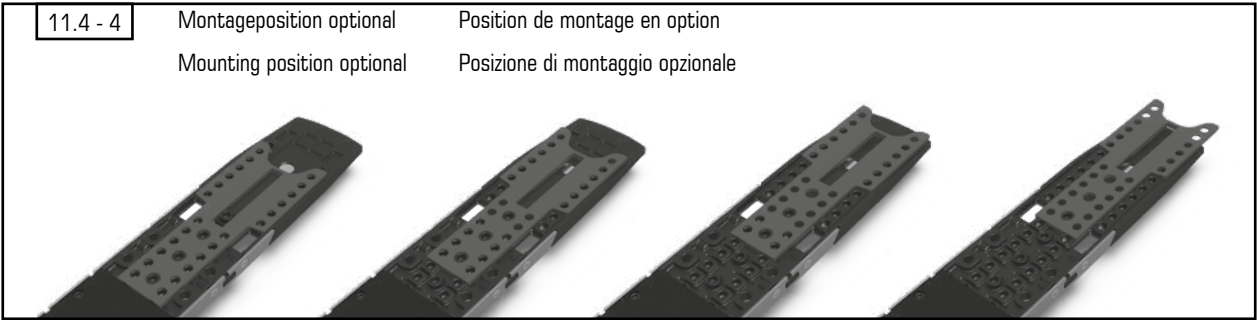
REMARK:

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

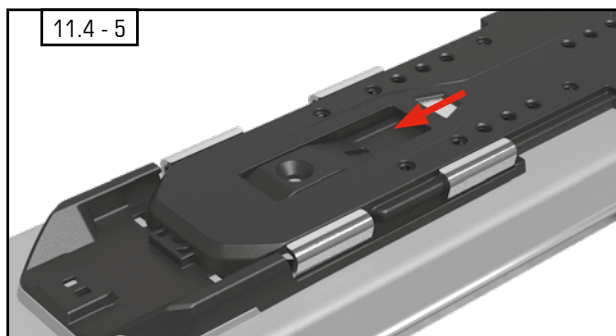


INSTALLATION OF THE WORLD CUP PISTON CONTROL PLATE:

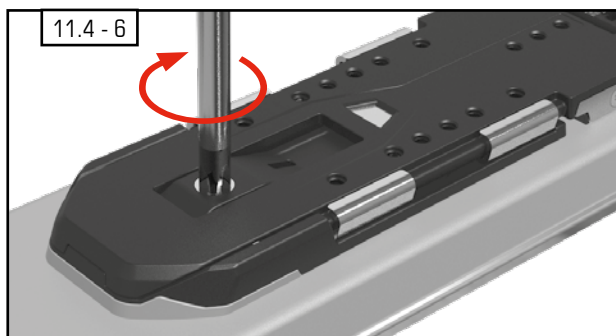
- Insert the Flex element at the chosen position 1 - 4 (Position 3 + 4 for stiffer flex). (11.4 - 3 and 11.4 - 4)



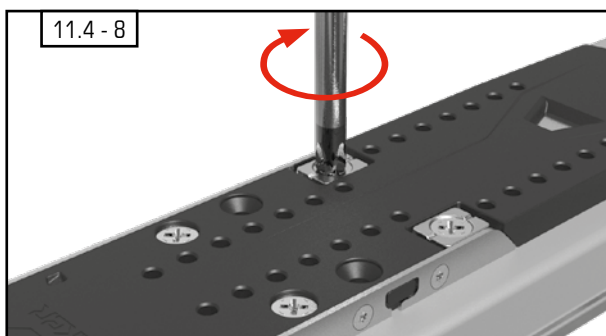
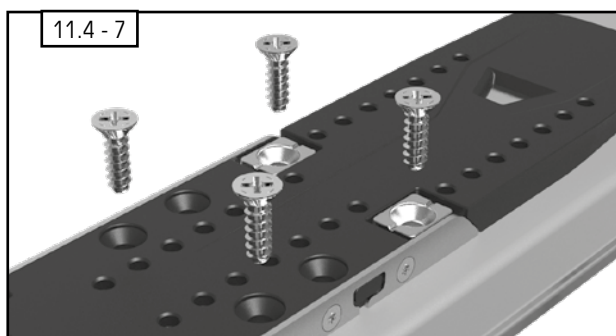
11.4 INSTALLATION OF WORLD CUP PISTON CONTROL INTERFACE 10 mm



- Slide the World Cup Piston Control plate into the front plate. (11.4 - 5)



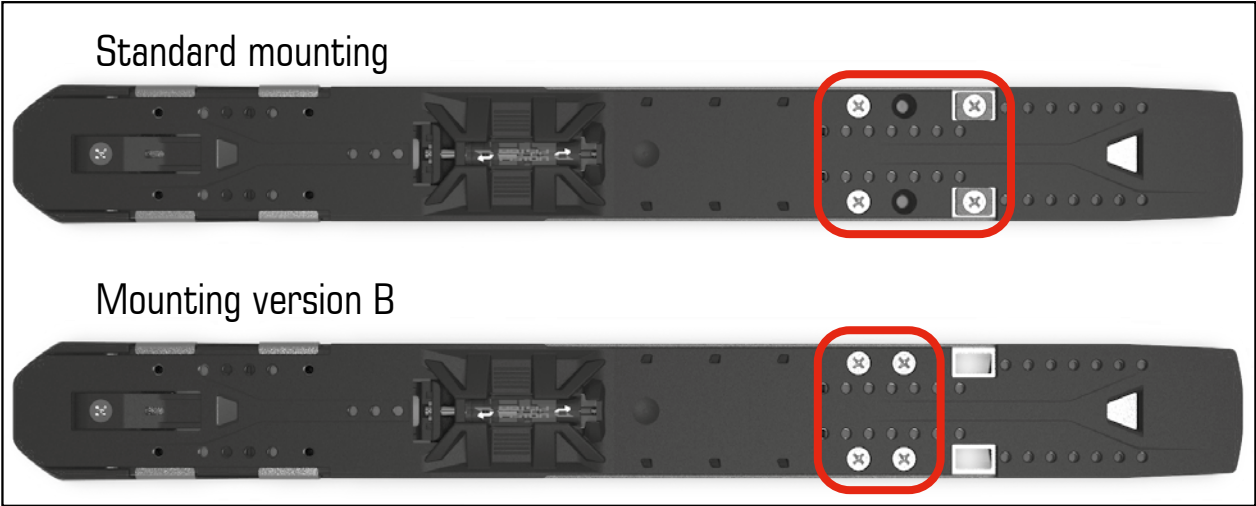
- Connect the World Cup Piston Control plate to the front plate using the front screw. (11.4 - 6)



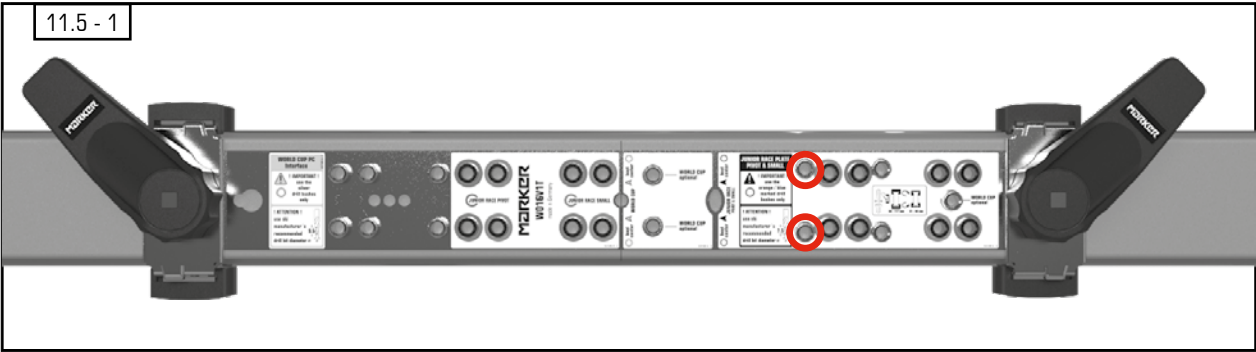
Mounting positions toe			Mounting positions heel	
1:	260 - 308		4:	262 - 278
2:	309 - 328		5:	279 - 288
3:	329 - 362		6:	289 - 298
			7:	299 - 318
			8:	319 - 338
			9:	339 - 348
			10:	349 - 362

Toe	Comp toe		Heel	Comp heel	
					
+ 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)

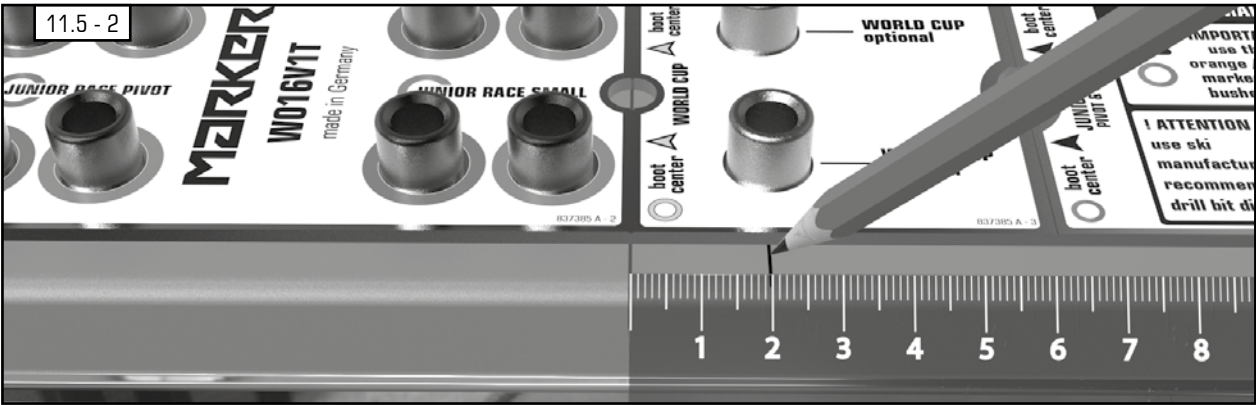
11.5 WORLD CUP PISTON CONTROL INTERFACE MOUNTING VERSION B



- Drill 4 holes for the front plate for short or long mounting position.
World Cup Piston Control Interface 14 mm → **11.3 - 1**
World Cup Piston Control Interface 10 mm → **11.4 - 1**
- Drill 2 holes through the two front bushings for the rear plate fixing (11.5 - 1).



- Measure 20 mm from the boot center marking towards the end of the ski and mark the position (11.5 - 2)

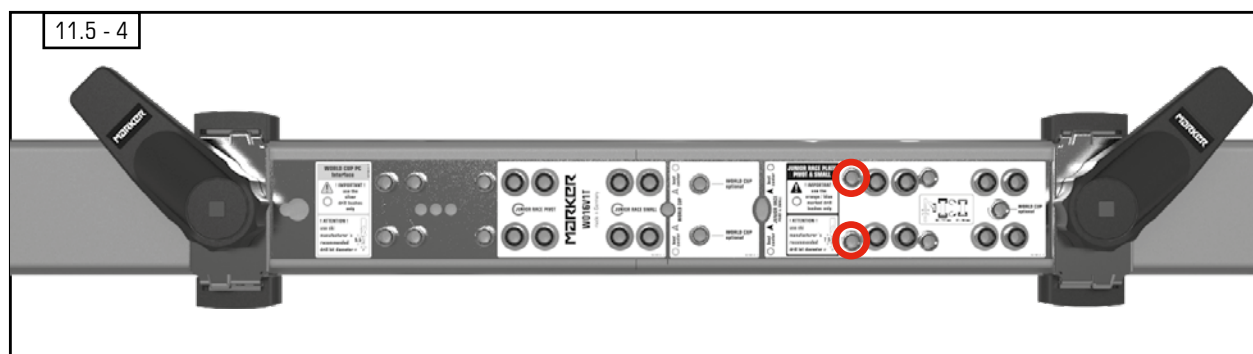


11.5 WORLD CUP PISTON CONTROL INTERFACE MOUNTING VERSION B

- Move the installation tool backwards to the marked position. (11.5 - 3)

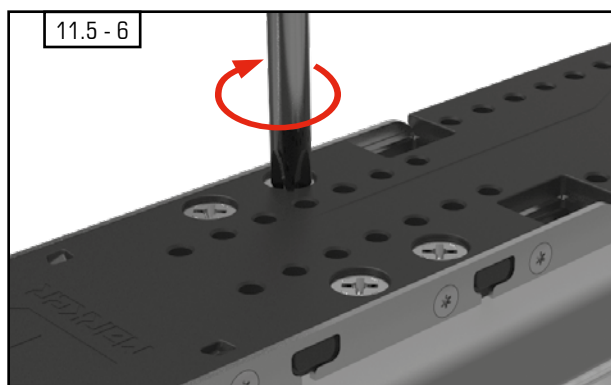
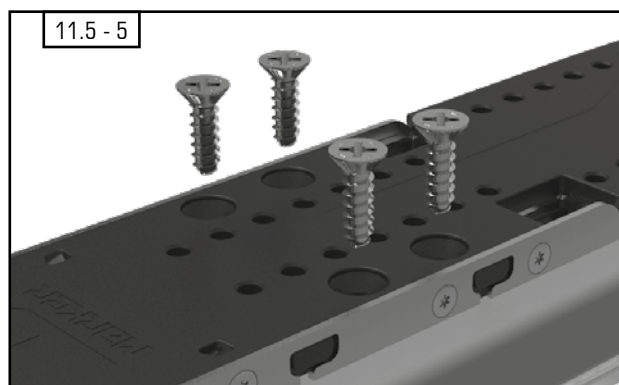


- Drill 2 additional holes through the same drill bushings for the rear plate fixing. (11.5 - 4)



Install the plate as described in chapters → **11.3** and **11.4** points 2 - 6.

- Insert the screws, tighten the screws lightly, then firmly. (11.5 - 5 and 11.5 - 6)



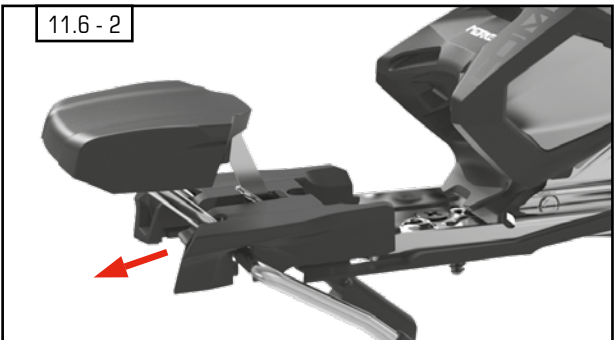
11.6 INSTALLATION OF COMP HEEL DEMO PLATE



IMPORTANT !

The MARKER Comp heel Demo plate enlarges the sole length range of the heel to 60 mm.
The Comp heel Demo plate is designed to be mounted solely in conjunction with World Cup Piston Control Interface.

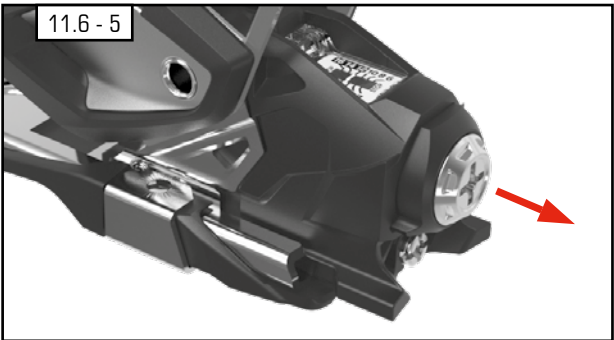
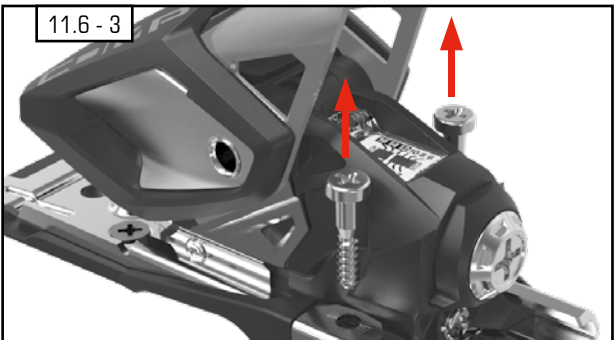
- Remove the attachment screw of the ski brake (11.6 - 1).



- Pull the ski brake slightly forward to remove (11.6 - 2).

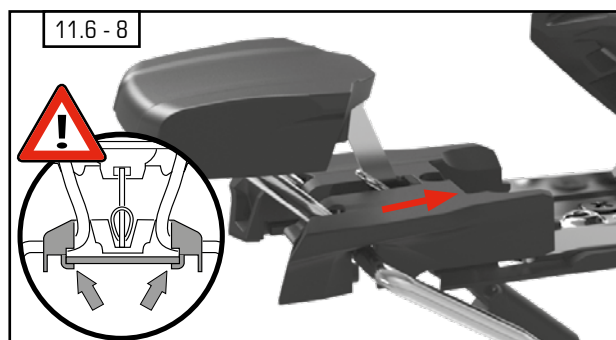
- Remove the rear fixing screws. (11.6 - 3)

- Screw the heel backward from the base plate by turning the forward pressure adjustment screw. (11.6 - 4)



- Pull the heel off the base plate. (11.6 - 5)

11.6 INSTALLATION OF COMP HEEL DEMO PLATE



- Slide the heel from the rear onto the Comp Demo plate. Slide the heel forward until it stops. (11.6 - 6)
- With slight pressure, screw the heel forward onto the plate by turning the forward pressure adjustment screw. (11.6 - 7)
- Slide in the ski brake. Make sure that the metal hooks of the brake base latch beneath the metal base plate of the heel (11.6 - 8).
- Slide the ski brake backward until it stops.
- Tighten the attachment screw of the ski brake (11.6 - 9).

INSTALLATION OF THE BINDING:

see Installation of World Cup Piston Control Interface 14 → 11.3

see Installation of World Cup Piston Control Interface 10 → 11.4

see Installation of COMP BINDINGS → 10.3



IMPORTANT SAFETY ADVICE !

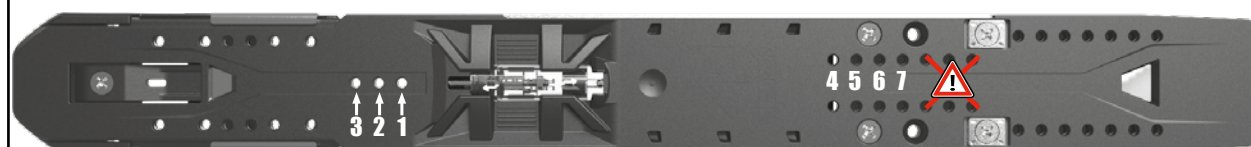
Make sure that you do not exceed the »STOP« marking on the Comp / XComp Demo plate when adjusting the sole length backward !

MOUNTING POSITIONS COMP DEMO

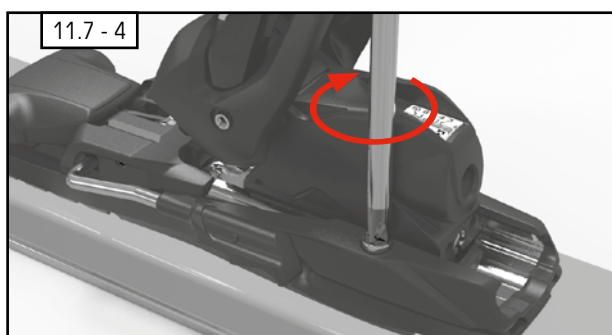
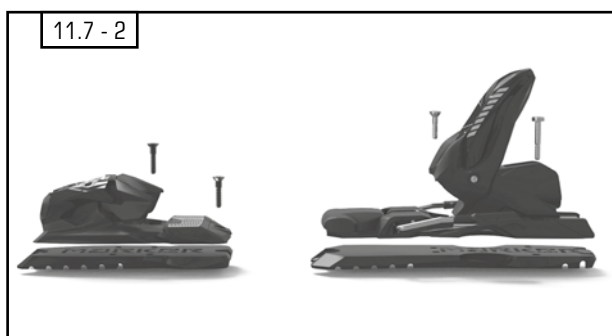
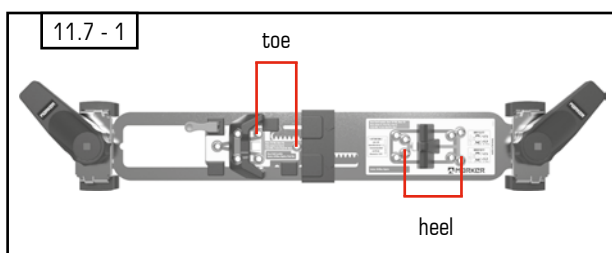
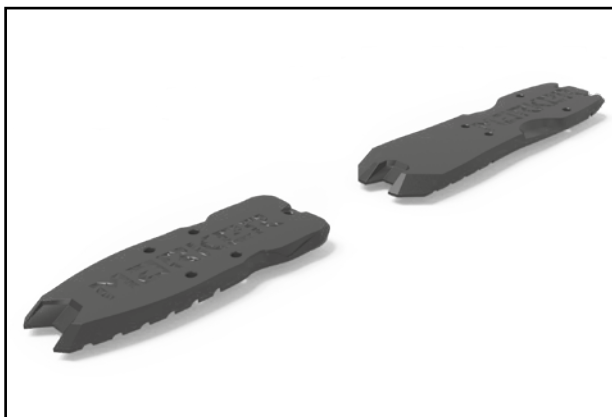
- | | |
|----|-----------|
| 1: | 260 - 308 |
| 2: | 309 - 328 |
| 3: | 329 - 362 |



- | | |
|----|-----------|
| 4: | 262 - 318 |
| 5: | 279 - 328 |
| 6: | 289 - 338 |
| 7: | 299 - 358 |



11.7 JUNIOR RACE LIFTER



CAUTION !

The Junior Race lifter is designed to be mounted solely in conjunction with the binding models Comp 10 and Comp Junior 8 !

DRILLING THE ATTACHMENT HOLES:

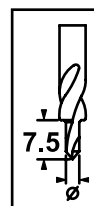
See ADJUSTMENT OF THE BINDING INSTALLATION TOOLS → 3.2

- Place the MARKER universal installation tool W001G1T (11.7 - 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



CAUTION !

The pre-installed binding screws have to be replaced by the enclosed Junior Race lifter replacement screw kit. (11.7 - 2)

INSTALLING THE TOE:

- Place the front plate and the toe onto the front holes.
- Tighten the screws lightly, then firmly. (11.7 - 3)

INSTALLING THE HEEL:

- Place the heel plate and the heel onto the rear holes.
- Tighten the screws lightly, then firmly. (11.7 - 4)

CHECK FORWARD PRESSURE / RELEASE VALUE SELECTION AND ADJUSTMENT:

see → 10.4 / 10.5



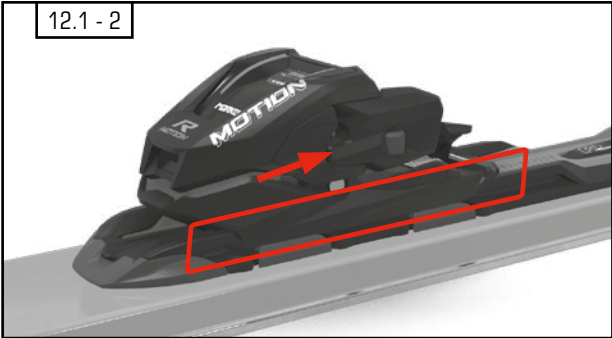
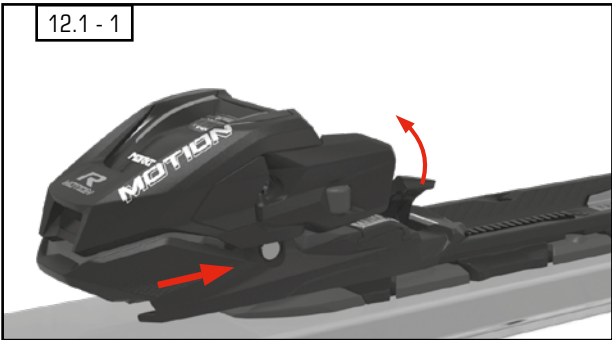
Ski Partners



Being able to work closely together with some of the world's biggest and well-renowned ski companies allows us not only to develop our own top level binding components but also to design factory systems, perfectly matched to the individual skis.

This long-year relationship has helped us all to make skiing safer, faster, more competitive and more fun - season after season.

12.1 INSTALLATION OF RMOTION T MODELS



REMARK: This mounting instruction is also valid for the MARKER / K2 model Comp 12 FDT



IMPORTANT !
RMotion T models are designed to mount only in conjunction with the RMotion T / Comp Demo plate system.

REMARK:
The binding models RMotion T are designed for the following standard boot soles:

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

INSTALLING THE TOE:

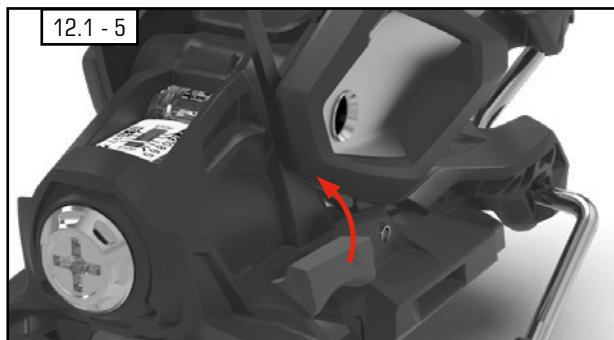
- Open the locking lever and slide the toe piece from the front onto the plate. (12.1 - 1)
- Slide the toe backwards. (12.1 - 2)



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. (12.1 - 3)
- Close the toe locking lever. (12.1 - 4)

12.1 INSTALLATION OF RMOTION T MODELS



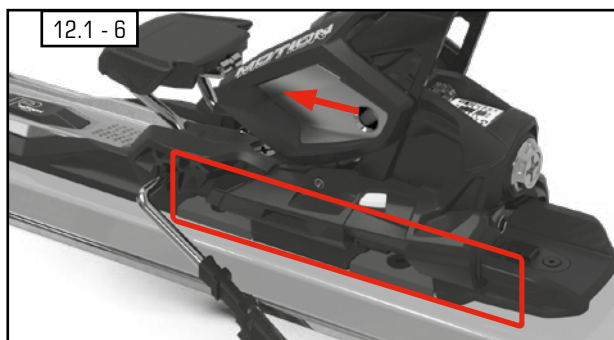
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (12.1 - 5)
- Slide the heel forward. (12.1 - 6)



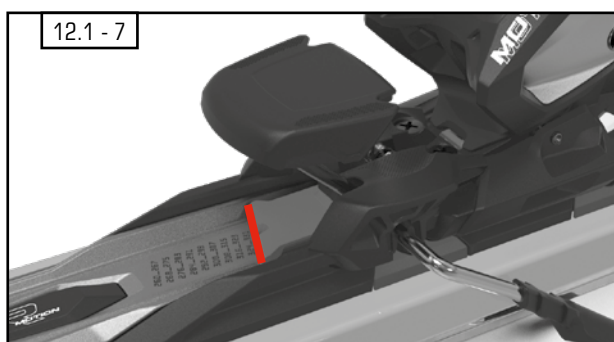
CAUTION !

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



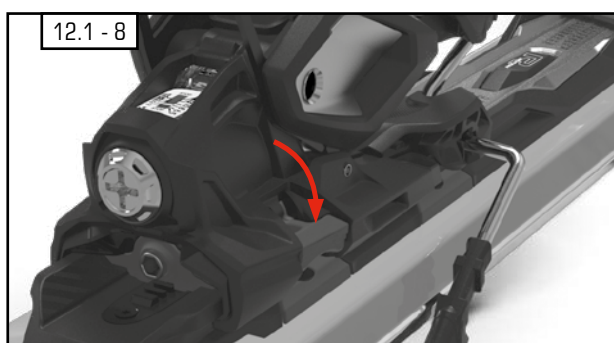
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (12.1 - 7)

- Close the heel locking lever. (12.1 - 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. (12.1 - 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:

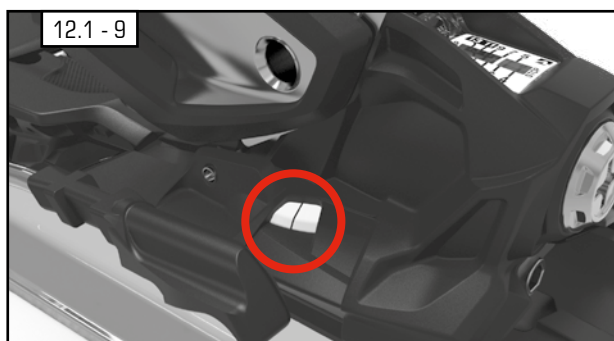
- Following the correct adjustment for sole length and forward pressure, the release value has to be selected and adjusted. Use the weight method to match the individual skier's needs.

See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 17.1 - 17.3

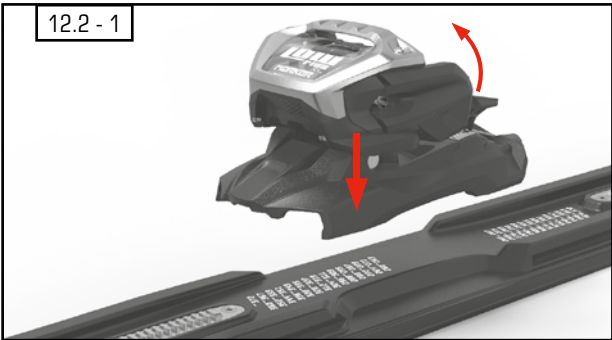
REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:
also refer to chapter ➔ 19.5



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: ➔ 20.3

12.2 INSTALLATION OF LOWRIDE FR & LOWRIDE TCX



IMPORTANT !

Lowride FR & Lowride TCX bindings are designed to mount only in conjunction with Vökl Peregrine V-Werks, Peregrine 82, 80, 78 and Shine 78 skis.

REMARK:

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

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN 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. (12.2 - 1 & 12.2 - 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. (12.2 - 3)
- Close the toe locking lever. (12.2 - 4)

12.2 INSTALLATION OF LOWRIDE FR & LOWRIDE TCX



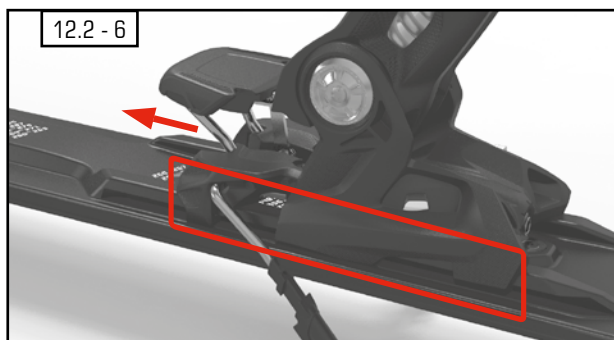
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the ski rails from the rear. (12.2 - 5)
- Slide the heel forward. (12.2 - 6)



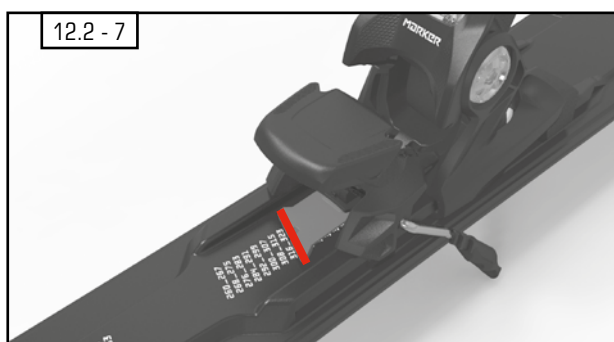
CAUTION !

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



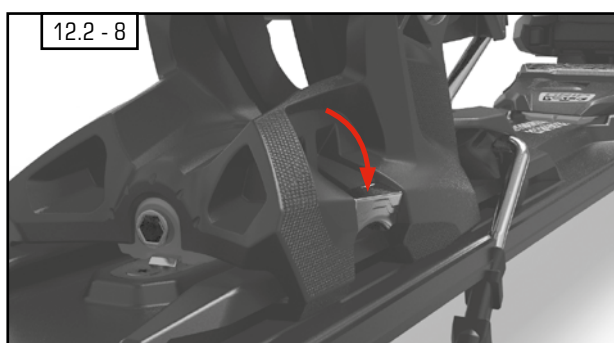
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (12.2 - 7)

- Close the heel locking lever. (12.2 - 8)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the forward pressure is correct when the imprinted line on the forward pressure indicator is visible in the cutout of the heel housing. (12.2 - 9)
If the forward pressure indicator line is not visible: remove the ski boot and readjust the boot sole length until the forward pressure indicator line is visible in the cutout.



RELEASE VALUE SELECTION AND ADJUSTMENT:

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

See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 17.1 - 17.3

REMARK:

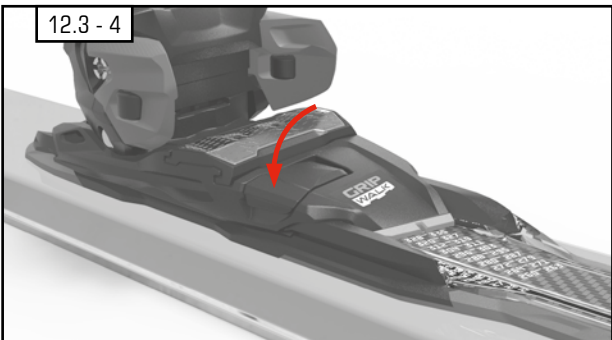
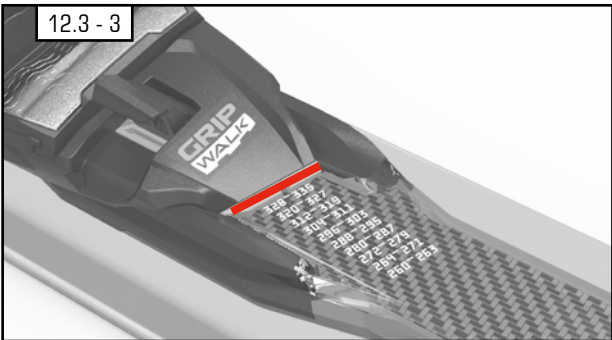
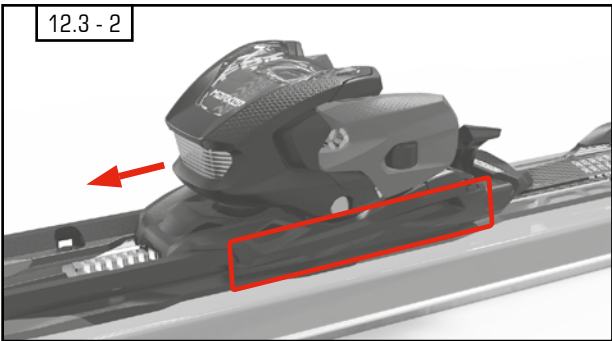
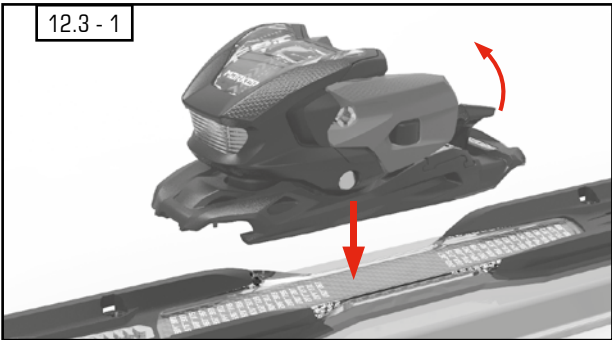
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 19.5



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: ➔ 20.3

12.3 INSTALLATION OF VMOTION



IMPORTANT !

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

REMARK:

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

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN 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. (12.3 - 1 & 12.3 - 2)

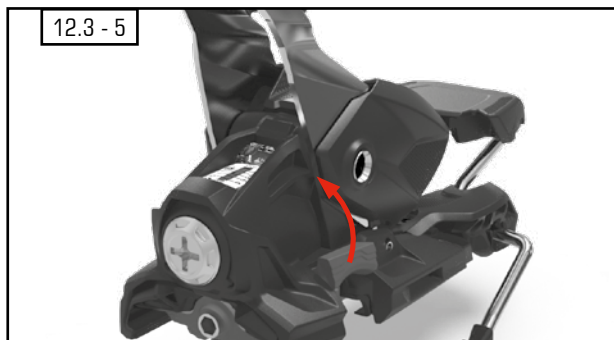


CAUTION !

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. (12.3 - 3)
- Close the toe locking lever. (12.3 - 4)

12.3 INSTALLATION OF VMOTION



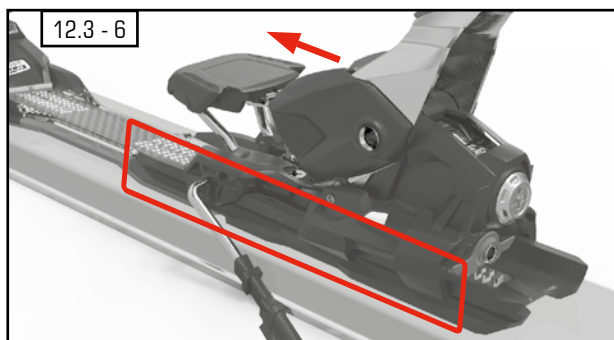
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (12.3 - 5)
- Slide the heel forward. (12.3 - 6)



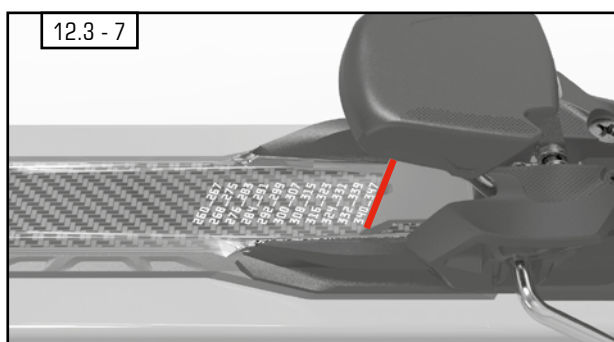
CAUTION !

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



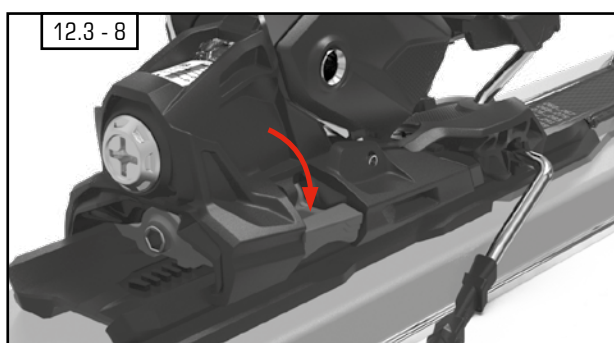
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (12.3 - 7)

- Close the heel locking lever. (12.3 - 8)



CHECK FORWARD PRESSURE:

- Place the ski boot into the binding, close the binding.
- Correct forward pressure:
With the boot in the system the forward pressure is correct when the imprinted line on the forward pressure indicator is visible in the cutout of the heel housing. (12.3 - 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.

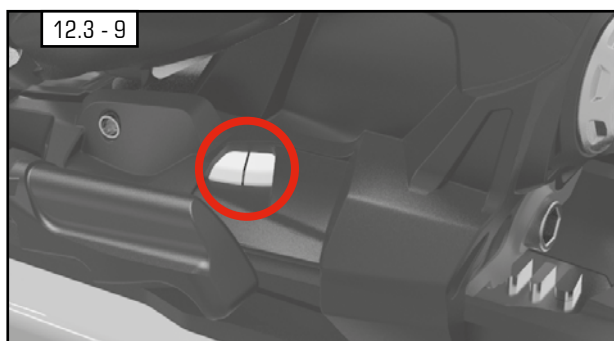
See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 17.1 - 17.3

REMARK:

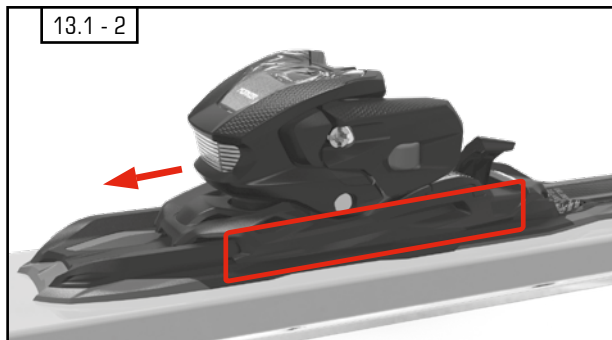
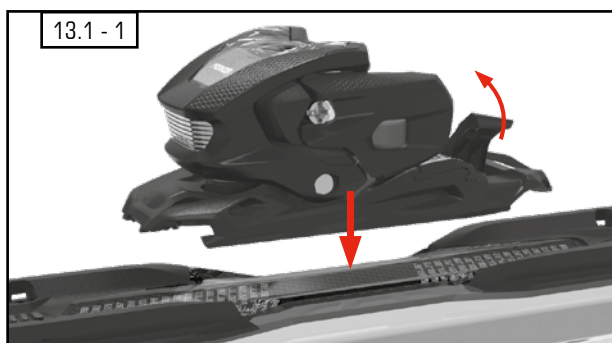
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 19.5



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: ➔ 20.3

13.1 INSTALLATION OF MARKER / K 2 QUICKLIK GRIPWALK MODELS



IMPORTANT !



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

REMARK:

This mounting instruction is valid for the MARKER / K 2 models MCX TCx light Quicklik, M3 TCx light Quicklik, ERC TCx light Quicklik, M3 Quicklik, ER3 Quicklik, M2 Quicklik, Free Ten Quicklik, Squire 10 Quicklik and ERP Quicklik.

REMARK:

The binding models K 2 Quicklik GripWalk are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN 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. (13.1 - 1 & 13.1 - 2)

REMARK:

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

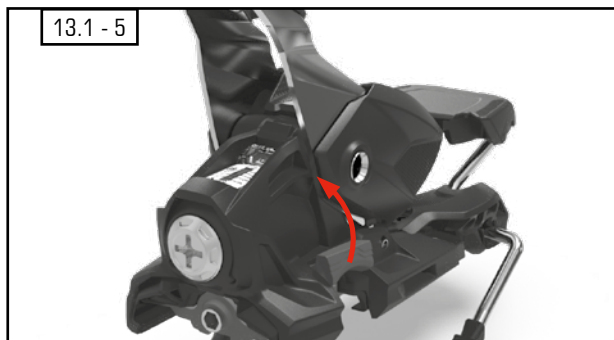


CAUTION !

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. (13.1 - 3)
- Close the toe locking lever. (13.1 - 4)

13.1 INSTALLATION OF MARKER / K 2 QUICKLIK GRIPWALK MODELS



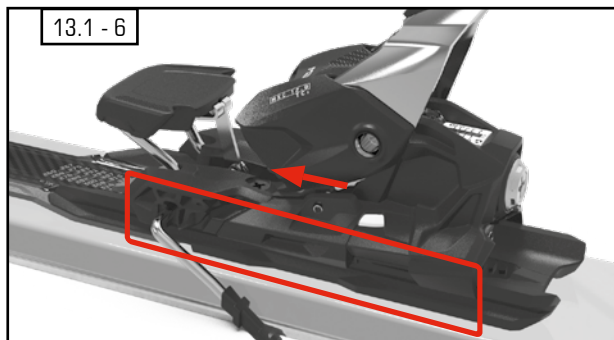
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (13.1 - 5)
- Slide the heel forward. (13.1 - 6)



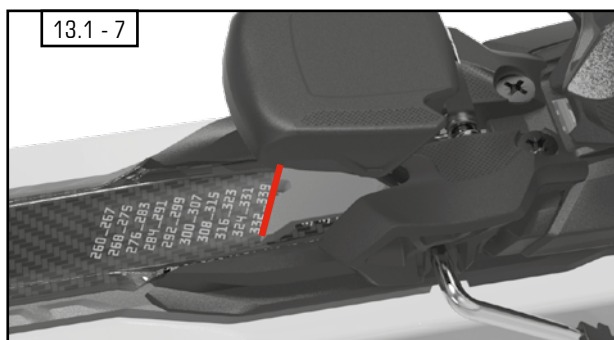
CAUTION !

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



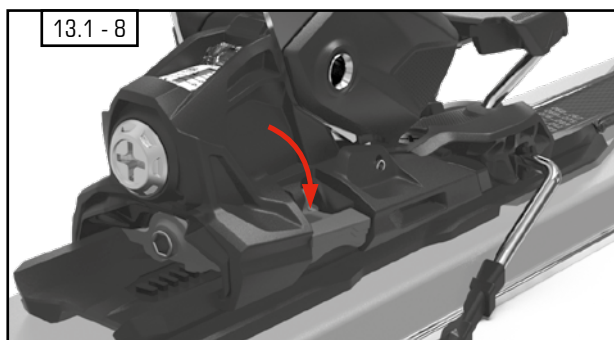
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (13.1 - 7)

- Close the heel locking lever. (13.1 - 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. (13.1 - 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.

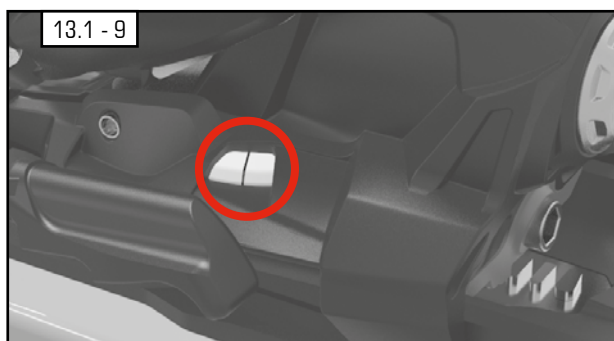
See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 17.1 - 17.3

REMARK:

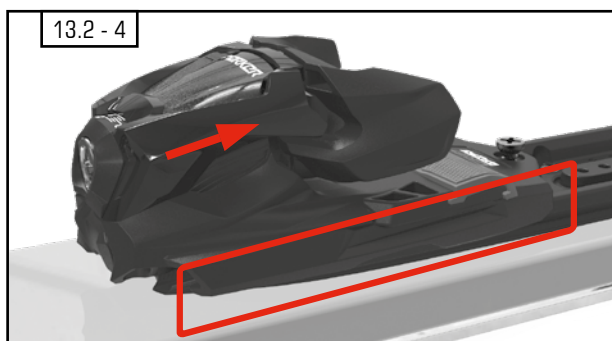
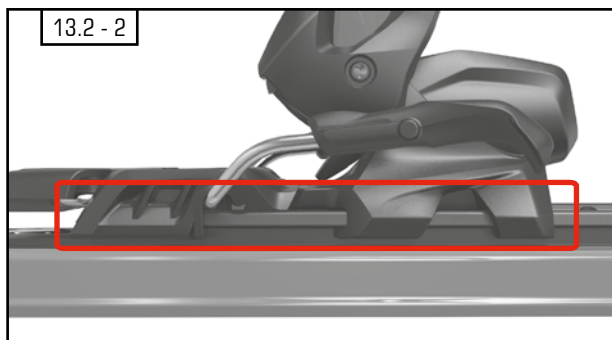
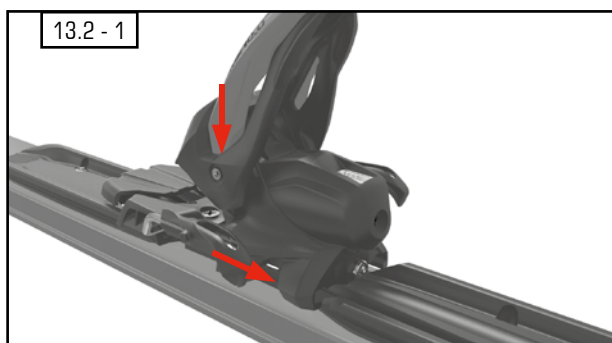
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 19.5



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: ➔ 20.3

13.2 INSTALLATION OF M2 / ERP GRIPWALK MODELS



IMPORTANT !

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

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

REMARK:

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

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

INSTALLING THE HEEL:

- Slide the heel from the center of the plate backward until it stops. (13.2 - 1)



CAUTION !

Make sure that the spacer rails engage both sides of the base plate properly. (13.2 - 2)

- Move the heel backwards by turning the forward pressure adjustment screw. (13.2 - 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. (13.2 - 4)



CAUTION !

Make sure that the spacer rails engage both sides of the base plate properly. (13.2 - 4)

13.2 INSTALLATION OF M2 / ERP GRIPWALK MODELS

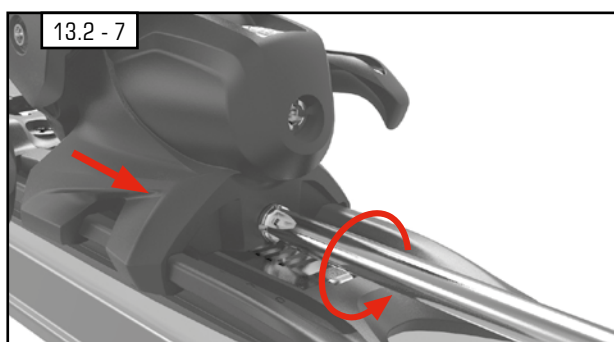


SOLE LENGTH ADJUSTMENT:

- 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. (13.2 - 5).



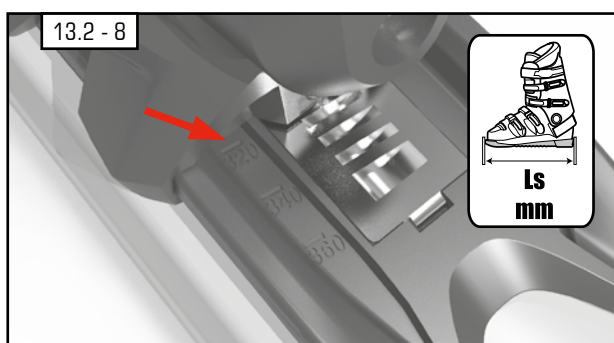
- Tighten the fixing screws by hand with a torque of 5.0 ± 0.5 Nm. (13.2 - 6)



- Screw the heel backward to the correct sole length in accordance with the sole length scale.
Indicator: left back edge of the heel housing. (13.2 - 7 / 13.2 - 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. (13.2 - 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.

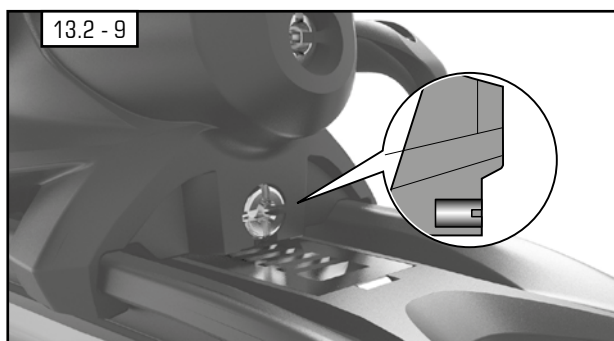


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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.

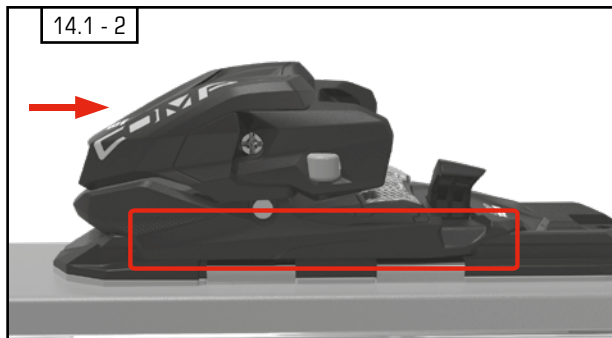
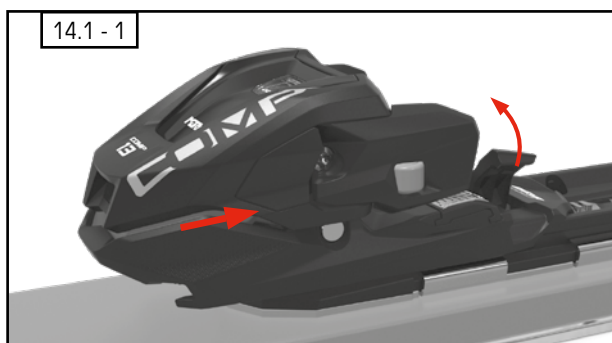
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3



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: → 20.3

14.1 INSTALLATION OF MARKER / NORDICA FDT GRIPWALK MODELS



IMPORTANT !



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

REMARK:

The binding models Comp FDT, TPX Royal FDT, TPX FDT, TP2 light FDT, TP2 Compact FDT and TLT FDT GripWalk are designed for the following standard boot soles:

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN 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. (14.1 - 1 & 14.1 - 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.

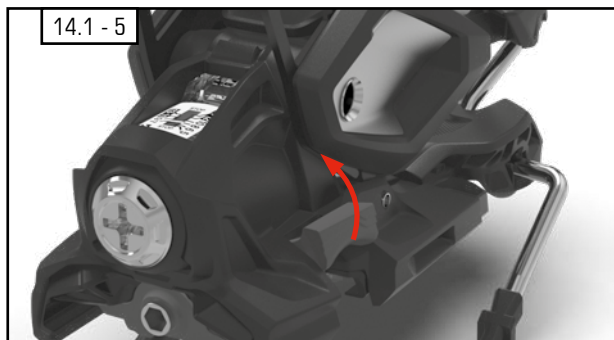
CAUTION !



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. (14.1 - 3)
- Close the toe locking lever. (14.1 - 4)

14.1 INSTALLATION OF MARKER / NORDICA FDT GRIPWALK MODELS



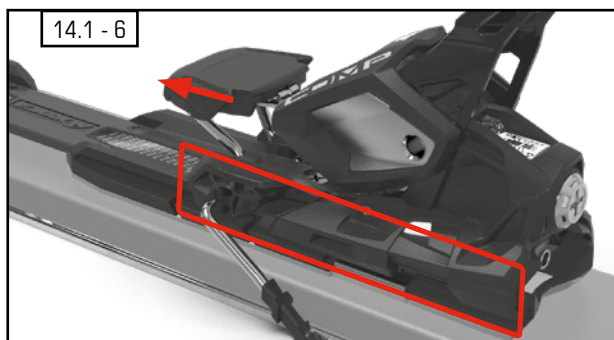
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (14.1 - 5)
- Slide the heel forward. (14.1 - 6)



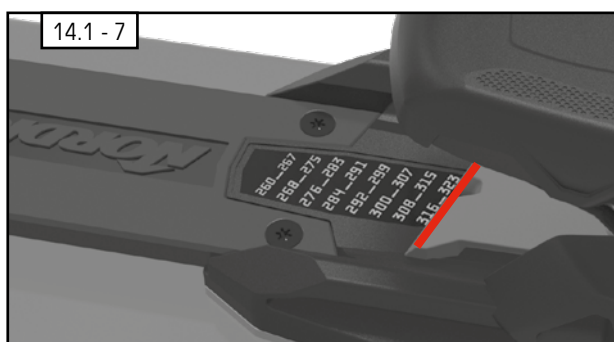
CAUTION !

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. (14.1 - 7)

- Close the heel locking lever. (14.1 - 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. (14.1 - 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.

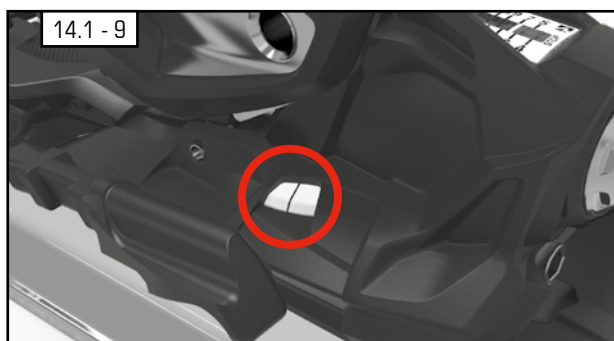
See RELEASE VALUE SELECTION AND ADJUSTMENT:

➔ 17.1 - 17.3

REMARK:

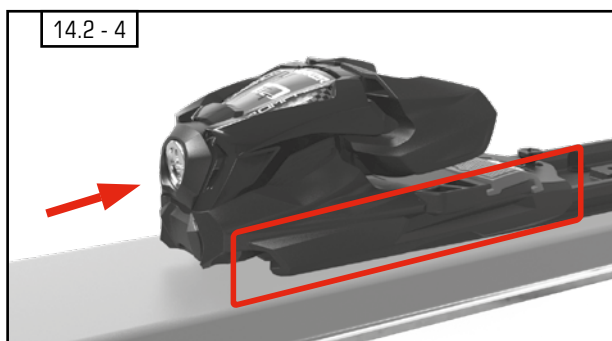
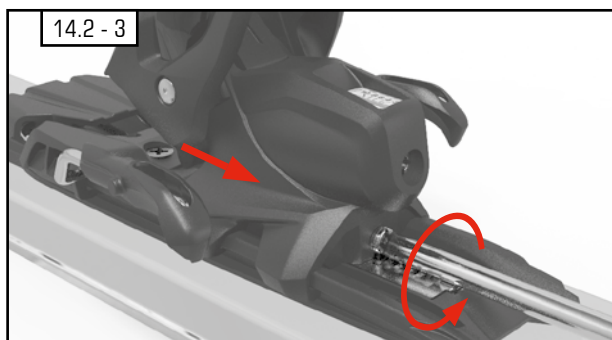
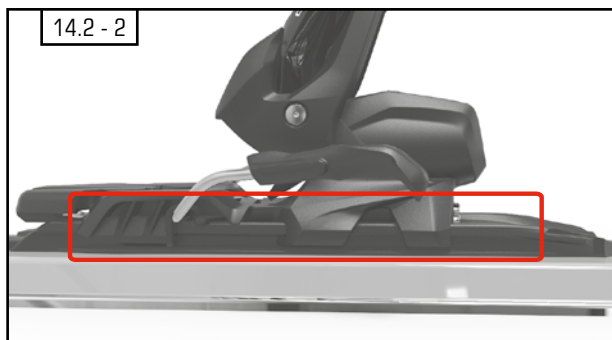
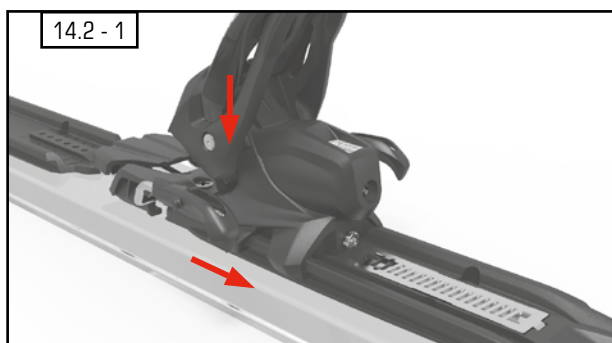
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter ➔ 19.5



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: ➔ 20.3

14.2 INSTALLATION OF MARKER / NORDICA TLT COMPACT

**IMPORTANT !**

Nordica TLT Compact 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:

The binding models TLT Compact GripWalk are designed for the following standard boot soles:

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

INSTALLING THE HEEL:

- Slide the heel from the center of the plate backward until it stops. (14.2 - 1)

**CAUTION !**

Make sure that the spacer rails engage both sides of the base plate properly. (14.2 - 2)

- Move the heel backwards by turning the forward pressure adjustment screw. (14.2 - 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. (14.2 - 4)

**CAUTION !**

Make sure that the spacer rails engage both sides of the base plate properly. (14.2 - 4)

14.2 INSTALLATION OF MARKER / NORDICA TLT COMPACT



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. (14.2 - 5).



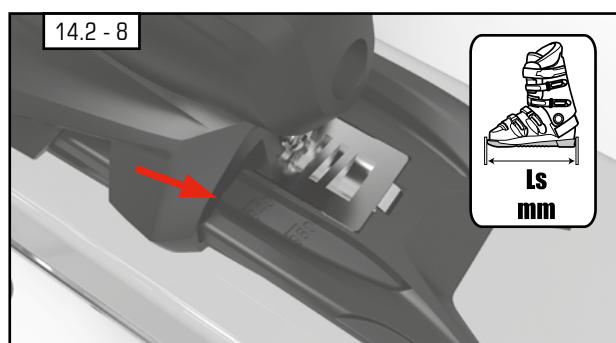
- Tighten the fixing screws by hand with a torque of 5.0 ± 0.5 Nm. (14.2 - 6)



- Screw the heel backward to the correct sole length in accordance with the sole length scale.
Indicator: left back edge of the heel housing. (14.2 - 7 / 14.2 - 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. (14.2 - 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.

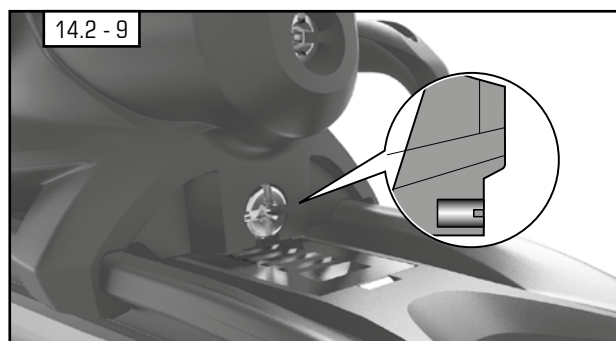


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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.

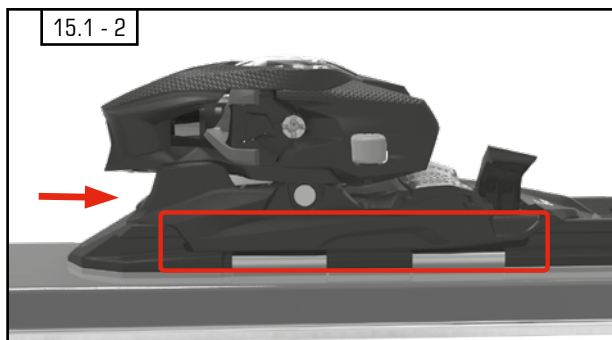
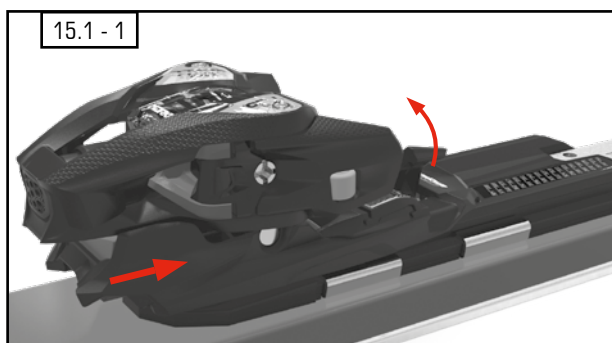
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3



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: → 20.3

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



IMPORTANT !



Comp Demo, 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 pre-mounted plate system. The suitable ski models are listed on the set label or can be requested from Blizzard.

REMARK:

The binding models Comp Demo, 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 DIN ISO 5355
- Alpine ski boots for adults DIN 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. (15.1 - 1 & 15.1 - 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.

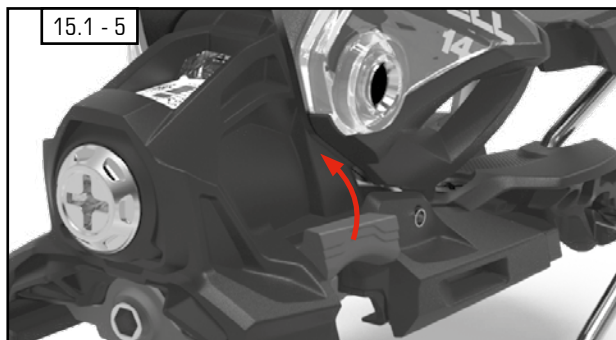
CAUTION !



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. (15.1 - 3)
- Close the toe locking lever. (15.1 - 4)

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



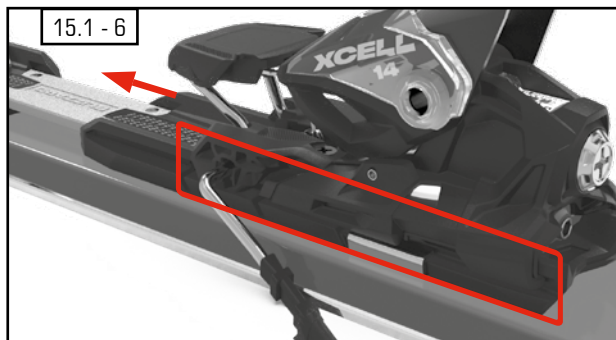
INSTALLING THE HEEL:

- Open the heel locking lever and slide the heel onto the plate starting from the rear. (15.1 - 5)
- Slide the heel forward. (15.1 - 6)



CAUTION !

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



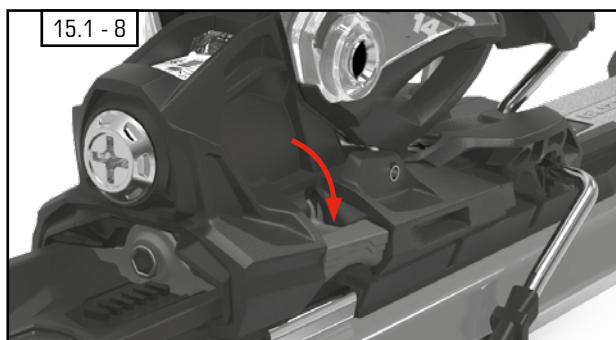
- Slide the heel to the correct sole length in accordance with the rear sole length scale. (15.1 - 7)

- Close the heel locking lever. (15.1 - 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. (15.1 - 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.

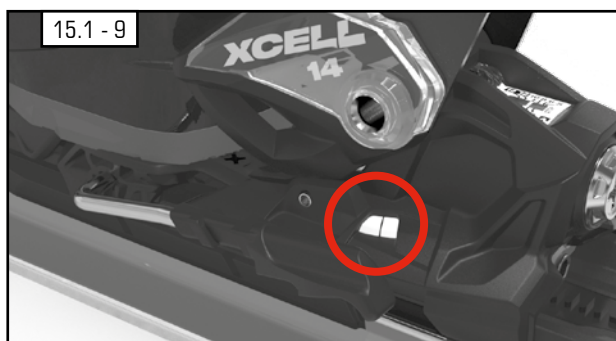
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3

REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 19.5



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: → 20.3

16.1 INSTALLATION OF MARKER / VAN DEER MODELS



IMPORTANT:
The following instructions apply to the binding models of the MARKER / VAN DEER collection:



Comp 30 see chapter → 10.1



Comp 20 see chapter → 10.1



Comp 16 see chapter → 10.3



Comp 12 GW see chapter → 10.3

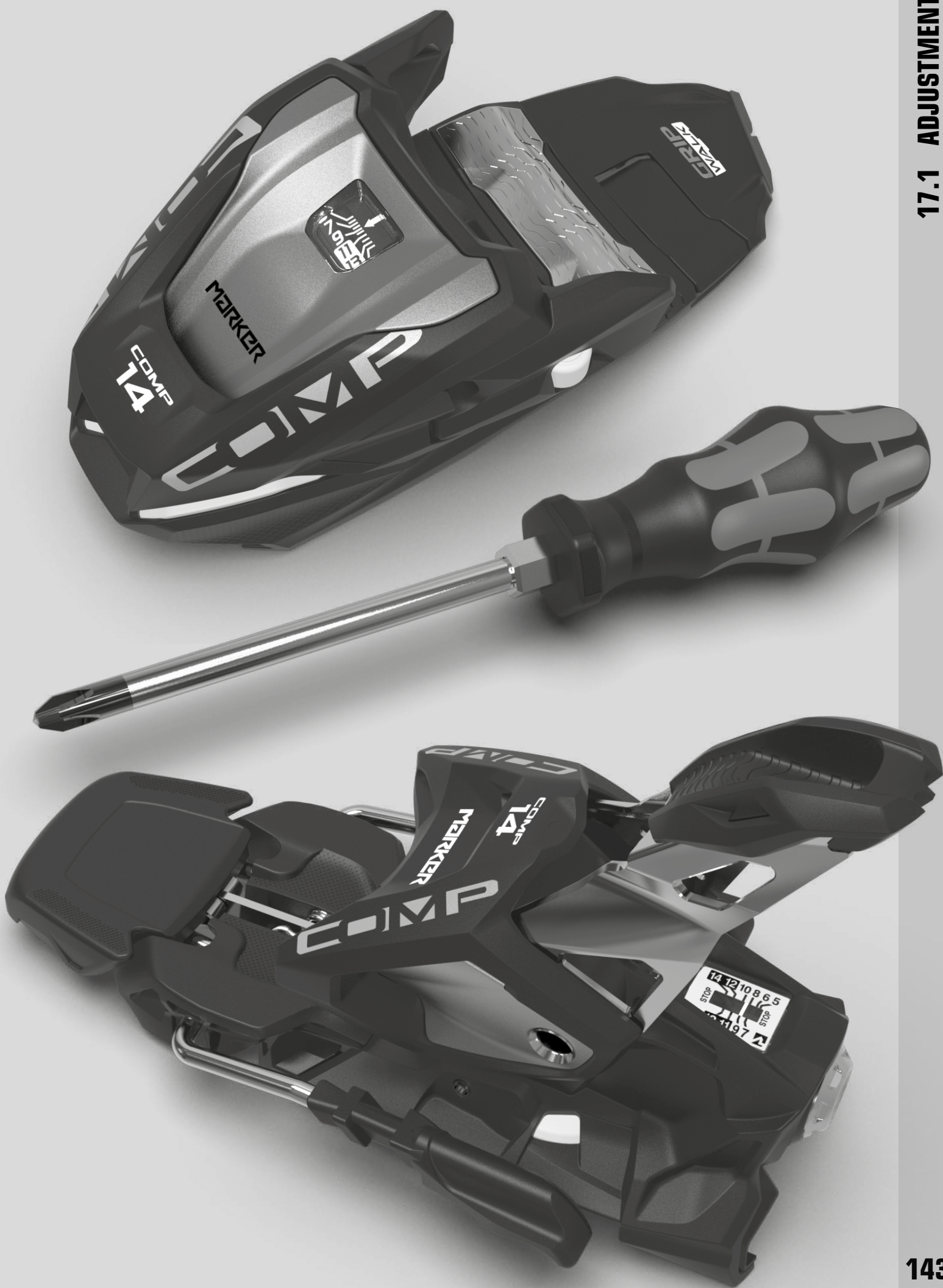


Comp 10 TCX see chapter → 10.4



Comp 13 FDT GW see chapter → 10.2





17.1 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.

→ 20.3

DETERMINE THE RELEASE VALUE:

BASIC PROCEDURE:

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

SKIER CLASSIFICATION:

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

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

TYPE I SKIERS:

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

TYPE II SKIERS:

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

TYPE III SKIERS:

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

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

In this case classify the skier to Type 2.

SPECIAL CASES:

- Skiers who desire release / retention settings lower than Type I may designate themselves » I - «
Type » I - «: move up the table one skier code.
- Skiers who desire release / retention settings higher than Type III may designate themselves » III + «
Type » III + «: move down the table three skier codes
- Skiers may select different adjustments for twist and forward release force. In such cases the selection shall be indicated by a slash separating twist and forward lean selections respectively.

17.1 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 2025 / 2026 MARKER adjustment chart given in this manual → **17.1 - 1**

WEIGHT METHOD:

Determine the release value:

Necessary skier information:

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

DETERMINE THE RELEASE VALUE (DIN - SETTING):

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

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

EXAMPLE:

Skier information:

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

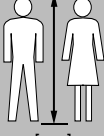
DETERMINE THE RELEASE VALUE (DIN - SETTING):

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

17.1 RELEASE VALUE SELECTION AND ADJUSTMENT

Examples for initial indicator value Z (presetting), depending on boot sole length.

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.

WEIGHT  [kg] [lbs]	HEIGHT  [cm] [ft' in']		RELEASE TORQUE RANGE		RELEASE VALUE  SOLE LENGTH [mm]							
			MZ  [Nm]	MY  [Nm]								
					≤230	231 - 250	251- 270	271- 290	291- 310	311- 330	331- 350	≥351
			5*	18*								
10-13 ¹⁾ 22-29		A	8	29	0,75	0,75	0,75					
14-17 ²⁾ 30-38		B	11	40	1,00	0,75	0,75	0,75				
18-21 39-47		C	14	52	1,50	1,25	1,25	1,00				
22-25 48-56		D	17	64	2,00	1,75	1,50	1,50	1,25			
26-30 57-66		E	20	75	2,50	2,25	2,00	1,75	1,50	1,50		
31-35 67-78		F	23	87	3,00	2,75	2,50	2,25	2,00	1,75	1,75	
36-41 79-91		G	27	102		3,50	3,00	2,75	2,50	2,25	2,00	
42-48 92-107	≤148 ≤4'10''	H	31	120			3,50	3,00	3,00	2,75	2,50	
49-57 108-125	149-157 4'11''-5'1''	I	37	141			4,50	4,00	3,50	3,50	3,00	
58-66 126-147	158-166 5'2''-5'5''	J	43	165			5,50	5,00	4,50	4,00	3,50	3,00
67-78 148-174	167-178 5'6''-5'10''	K	50	194			6,50	6,00	5,50	5,00	4,50	4,00
79-94 175-209	179-194 5'11''-6'4''	L	58	229			7,50	7,00	6,50	6,00	5,50	5,00
≥95 ≥210	≥195 ≥6'5''	M	67	271				8,50	8,00	7,00	6,50	6,00
		N	78	320				10,00	9,50	8,50	8,00	7,50
		O	91	380				11,50	11,00	10,00	9,50	9,00
			105	452						12,00	11,00	10,50
			121**	520**								
			137**	588**								

17.1 - 1 ADJUSTMENT CHART ACCORDING TO ISO 11088

* Lowest tolerance limit

** Highest tolerance limit

17.1 RELEASE VALUE SELECTION AND ADJUSTMENT

17.1 - 1 ADJUSTMENT CHART ACCORDING TO ISO 11088

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

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

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

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

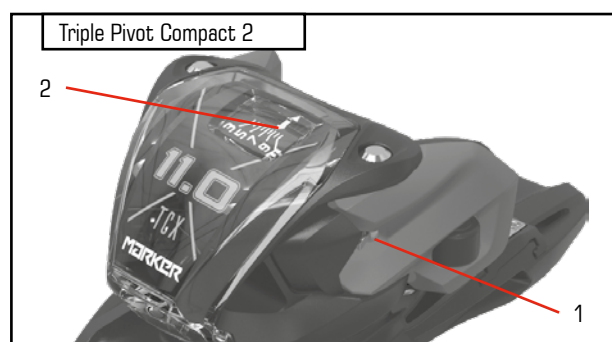
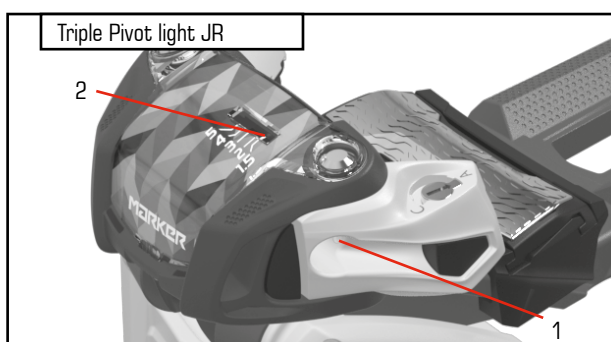
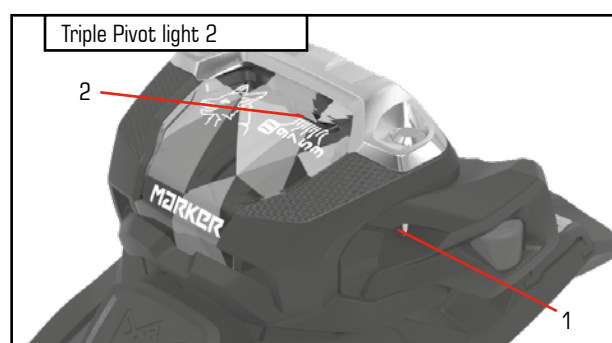
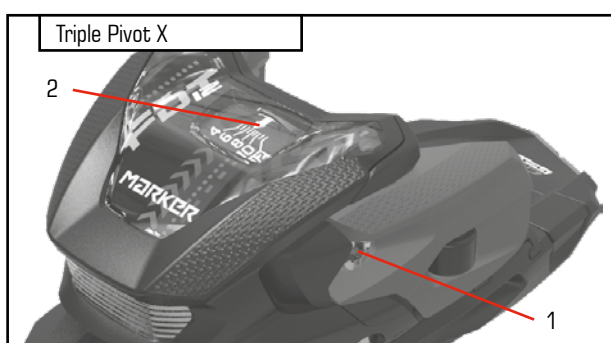
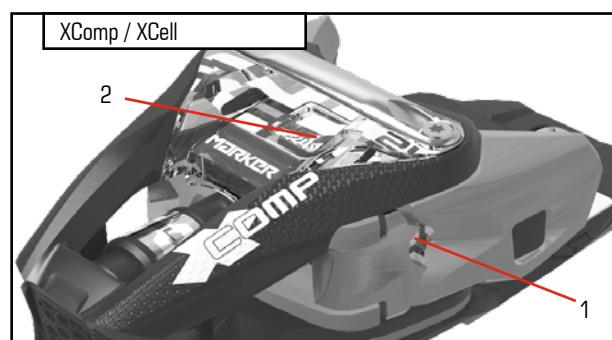
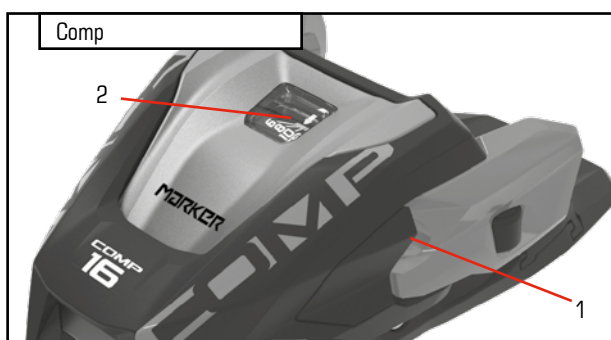
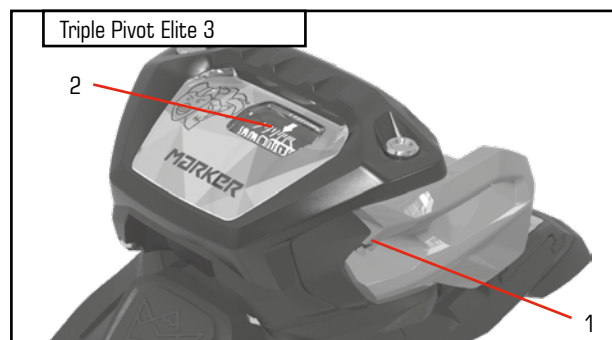
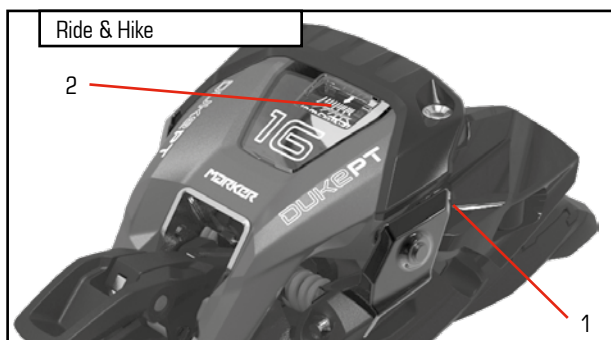
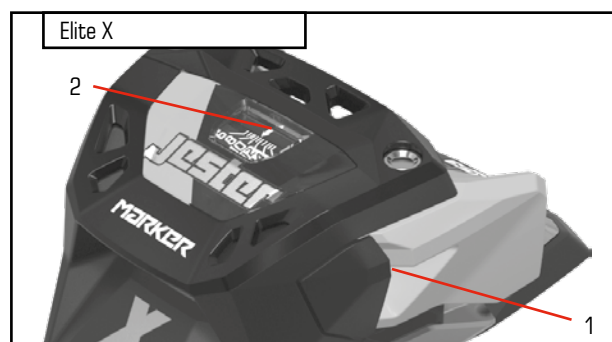
17.2 RELEASE VALUE SELECTION AND ADJUSTMENT

ADJUSTMENT SCREW AND INDICATOR SCALE ON THE TOE

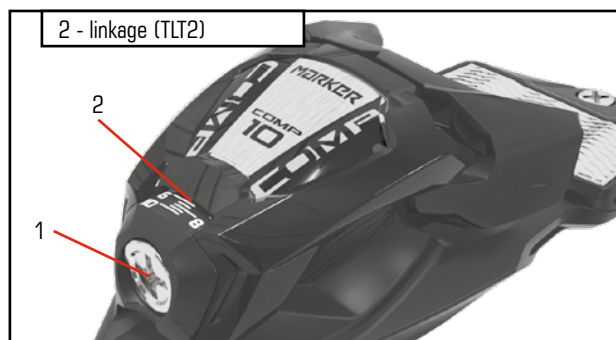
- Turn the adjustment screw (1) until the indicator line aligns with the selected release setting on the appropriate indicator scale. (2)

REMARK:

MARKER recommends adjustment with a Pozidriv® 3 screwdriver.

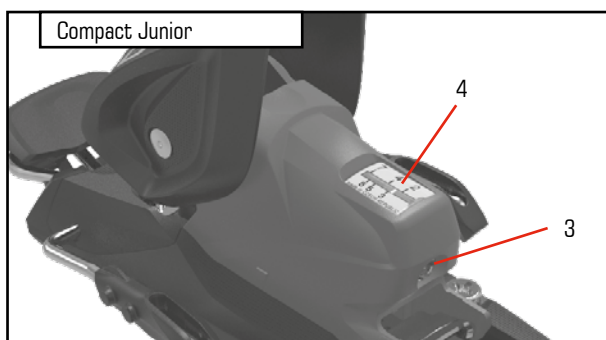
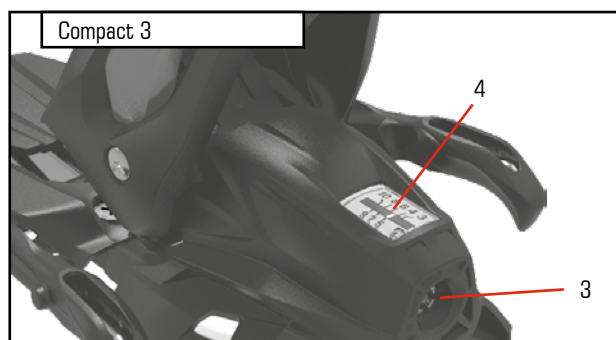
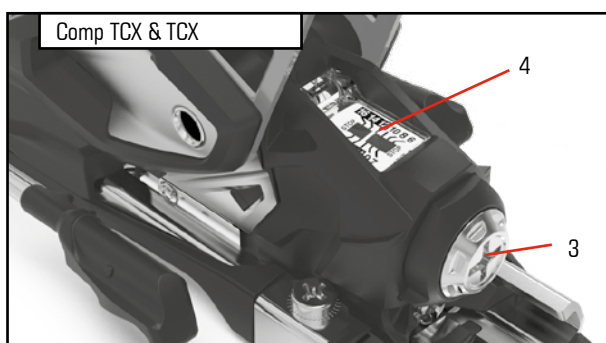
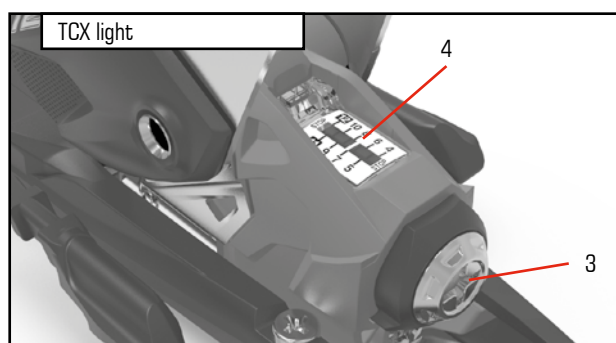
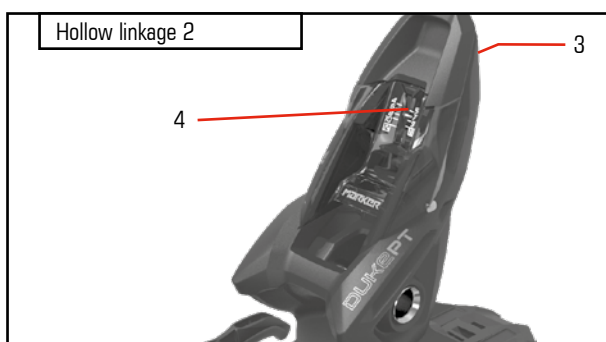
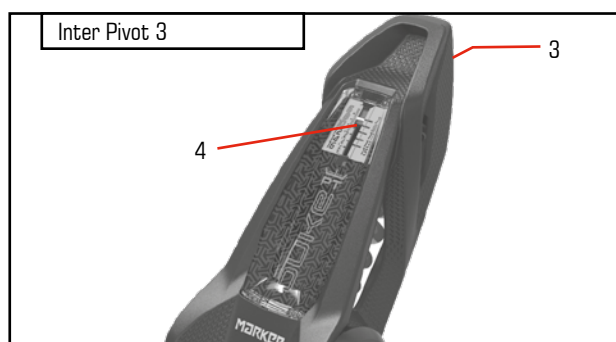


17.2 RELEASE VALUE SELECTION AND ADJUSTMENT



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)



17.3 FUNCTION TEST 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 → **17.1 - 1** in an area one line up and down of the chosen release value. See example → **17.3 - 1**, equivalent to B. If the measured value is in this area, the system can receive clearance.

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 → **17.1 - 1** in an area two lines up and down of the chosen release value. See example → **17.3 - 1**, equivalent to C.



IMPORTANT !

If the measured value is in the area for a new adjustment (value C), the system may not be delivered.

- Inspect again the consistency of ski boot and binding and verify the adjustment of the binding.
- Re - test the binding. If the measured value is still in the area for a new adjustment, correct the adjustment of the binding until the measured value is within the release value tolerance (value B).

If the measured values are beyond the limits for a new adjustment value C, it is not allowed to correct the adjustment of the binding. Replace ski boot, binding or both.

DELIVERY TO THE CUSTOMER:



IMPORTANT !

After all adjustments are done, deliver the customer the whole system together with a function test report (workshop form).

Fix the data as mentioned in → **chapter 20** »workshop records« beside the result of the measurement.

EXAMPLE 17.3 - 1

4	3,50	J	43	165	– C
5	4,50	K	50	194	– B
6	5,50	L	58	229	RELEASE VALUE
7	6,50	M	67	271	+ B
8,50	8	N	78	320	+ C

17.4 TROUBLE - SHOOTING

INSPECTION FOR NEW AND USED BINDINGS:

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

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



IMPORTANT !

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

FUNCTION TEST TOE:

Lateral elastic travel and return:

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

IF THE SYSTEM PASSES:

- Verify the release values with the testing device.

IF THE SYSTEM FAILS:

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

BOOT SLIDES IN TOE SOLEHOLDER:

- Check that the forward pressure is not too low.
- Check for lubricant on boot or toe soleholders. 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.

18.1 - 18.2 SPECIAL CASES / REPLACING SKI BRAKES

18.1 SPECIAL CASES

- **ADJUSTMENT OUTSIDE OF THE STANDARDS:**

Some skiers request a release value setting outside of the standards or the MARKER adjustment chart. It is subject to the specialist dealer's duty of care to inform the skier of the associated risks, especially if the customer requests a higher setting. If the release value for side and/or vertical release is too high, the ski boot may not release from the binding. If the release value for side and/or vertical release is too low, the ski boot may release inadvertently from the binding. In both cases, there is a higher risk of injury to the skier. If the customer insists on this individual setting outside the standards or the MARKER setting table, this request can be granted. In any case, you should record this change in the release value setting and have the customer sign that this change was made at his own risk.

- **OUTDATED, NON-STANDARD BINDINGS:**

If a skier requests installation or service of an older ski binding or one that does not meet the MARKER standard, the binding should be inspected according to the procedures described in the appropriate chapter of this manual. Even if the ski binding has passed the tests, you should advise the skier of the dangers associated with using an old ski binding.

If, for any reason, the ski binding has not completely passed the tests but the customer still insists on using the binding, this must be noted in detail on the test certificate.

- **MONOSKI:**

MARKER ski bindings have been developed for use on a pair of skis. If MARKER ski bindings are modified in any way or mounted on monoski, all claims for warranty and compensation are void.

18.2 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 the width of the ski has to be measured ca. 200 mm behind the mid ski mark.

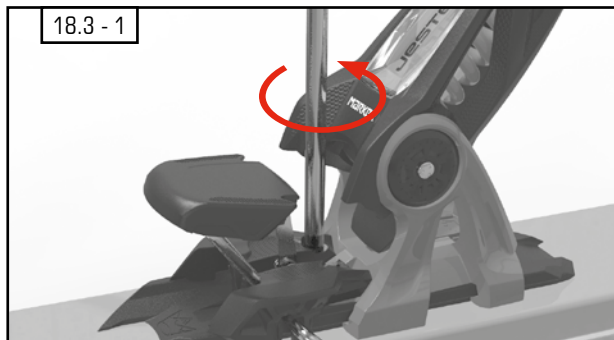
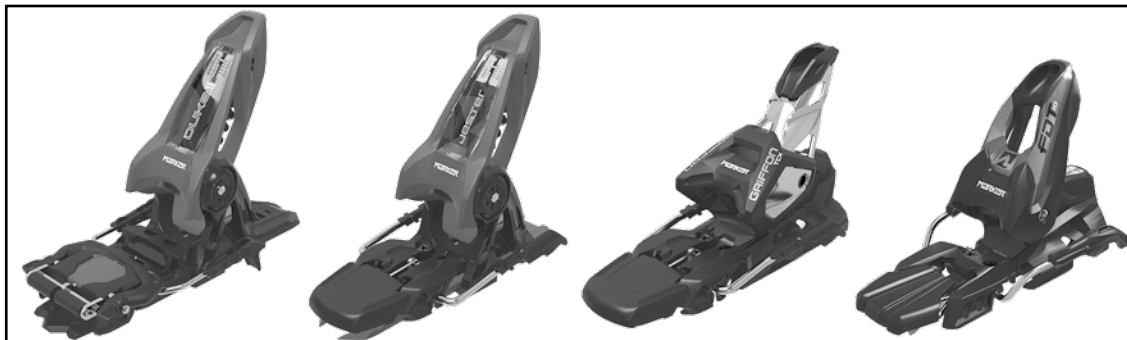
- Replacing ski brakes see → **18.3 - 18.7**
- Brake chart see → **21.2**



IMPORTANT !

In each of the above cases, the skier must be made aware of the risks associated with the use of the ski binding. The use is at the skier's own responsibility and you should ask the customer to sign a waiver of liability.

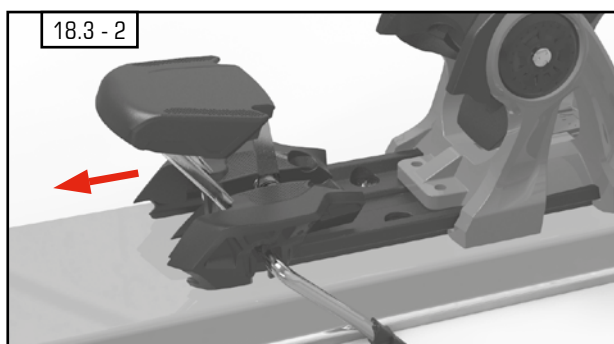
18.3 REPLACING SKI BRAKES



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

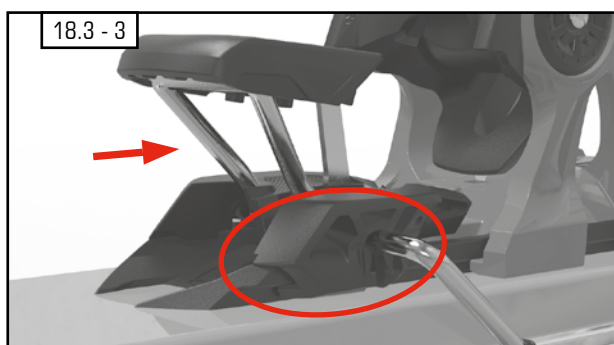
DEMOUNT THE SKI BRAKE:

- Remove the attachment screws of the ski brake (18.3 - 1).
- Pull the ski brake forward to remove (18.3 - 2).



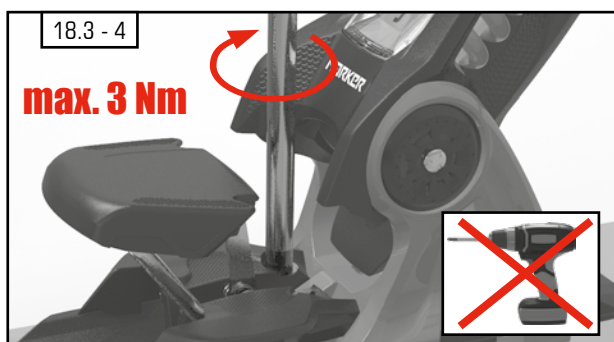
INSTALL THE NEW SKI BRAKE:

- Slide in the ski brake. Make sure that the new brake is fully and uniformly sliding into the attachments of the heel plate (18.3 - 3).
- Slide the ski brake backward until it stops. (18.3 - 3).
- Tighten the attachment screws of the ski brake (18.3 - 4).



IMPORTANT !

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

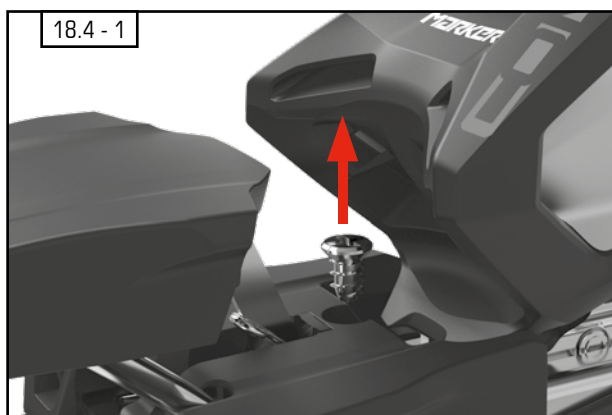


REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 21.2

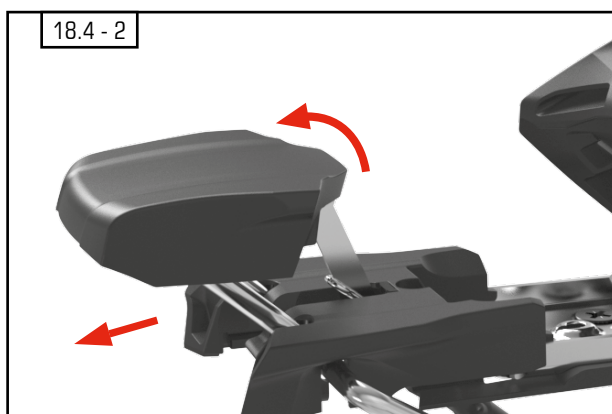
18.4 REPLACING SKI BRAKES



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

DEMOUNT THE SKI BRAKE:

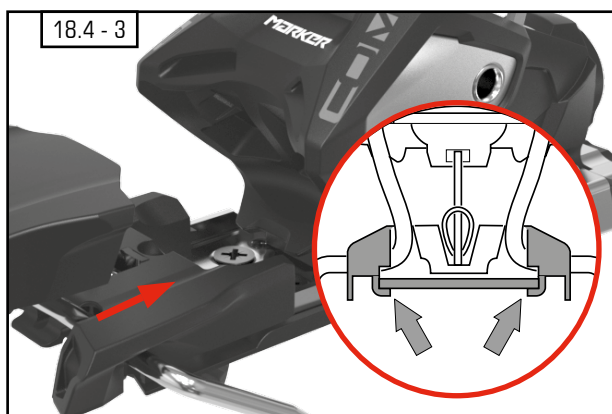
- Remove the attachment screw of the ski brake (18.4 - 1).



- Pull the ski brake slightly forward to remove (18.4 - 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. (18.4 - 3)

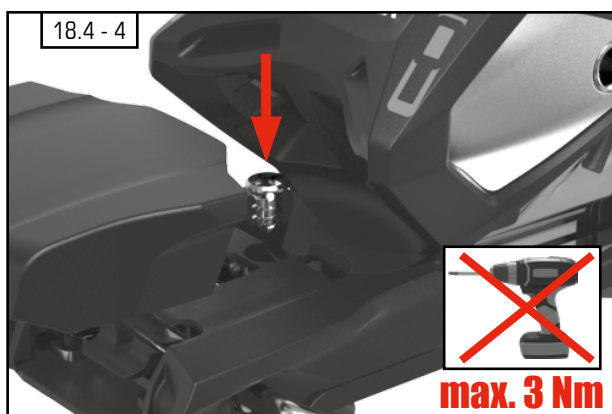


- Slide the ski brake backward until it stops.

- Tighten the attachment screw of the ski brake (18.4 - 4).

**IMPORTANT !**

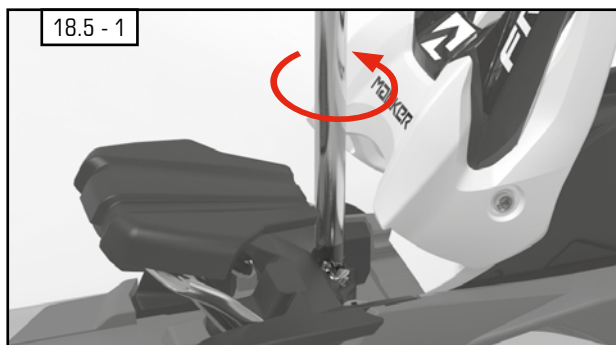
Tighten the screws by hand, do not use a power drill !

**REMARK:**

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 21.2

18.5 REPLACING SKI BRAKES



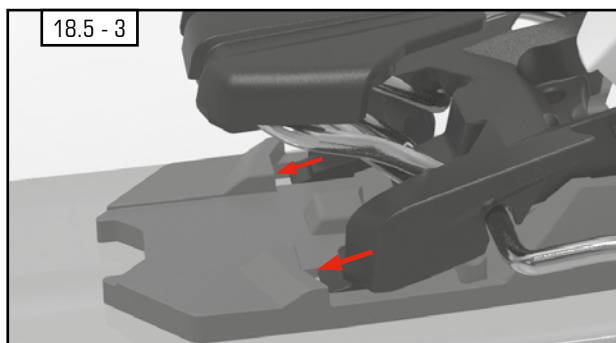
REPLACING THE SKI BRAKES SQUIRE 10 / 10.0 TP:

DEMOUNT THE SKI BRAKE:

- Remove the ski brake attachment screws (18.5 - 1).

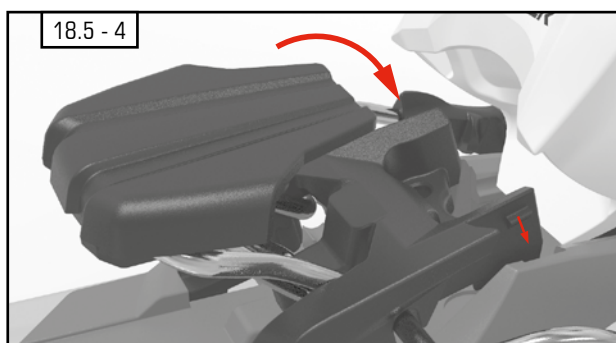


- Pivot the rear brake platform hooks carefully to remove the ski brake (18.5 - 2).



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 (18.5 - 3 and 18.5 - 4).

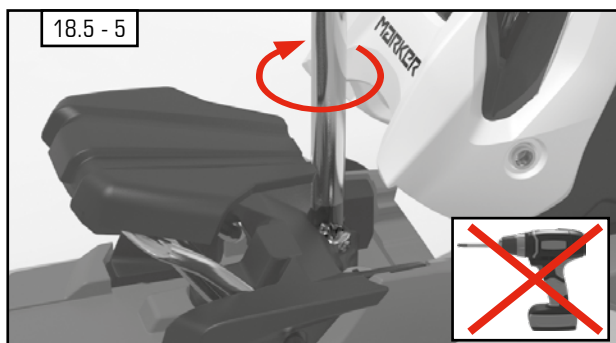


- Tighten the attachment screws carefully by hand (18.5 - 5).



IMPORTANT !

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

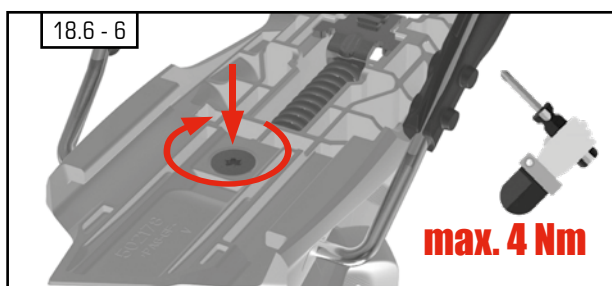
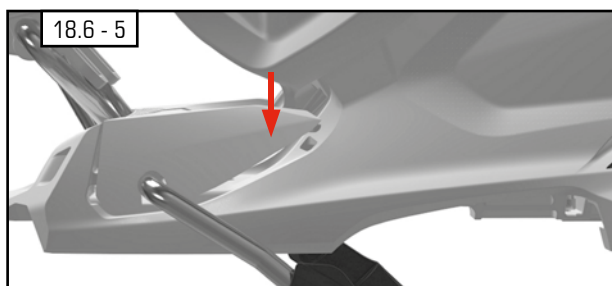
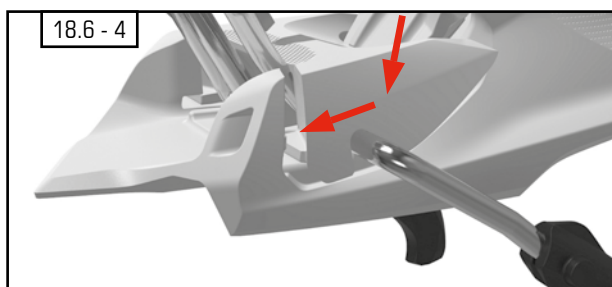
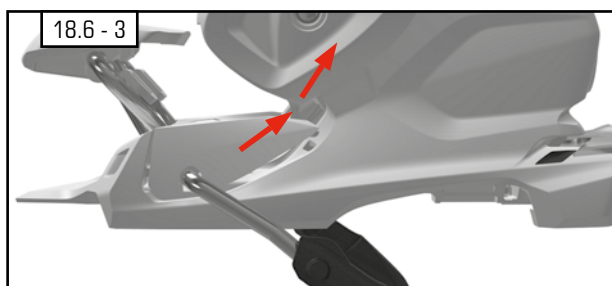
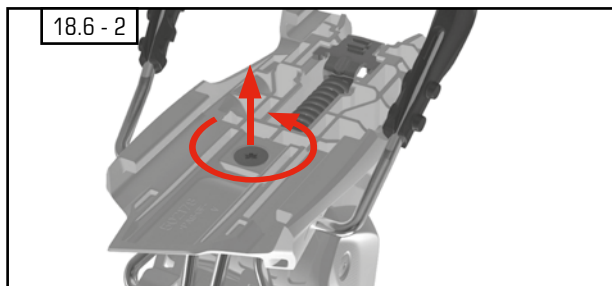
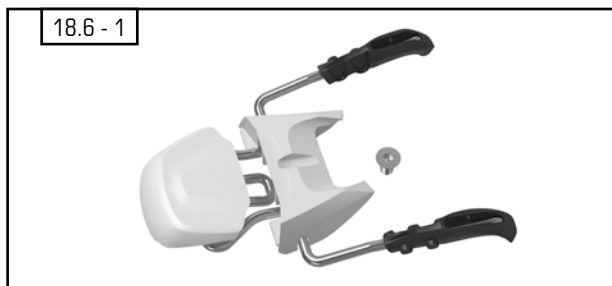


REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 21.2

18.6 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. (18.6 - 1)

DEMOUNT THE SKI BRAKE:

- Remove the attachment screw of the ski brake (18.6 - 2).
- Pivot the rear brake platform hooks carefully to remove the ski brake (18.6 - 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. (18.6 - 4 and 18.6 - 5).
- Tighten the attachment screws carefully by hand. (18.6 - 6)



IMPORTANT !

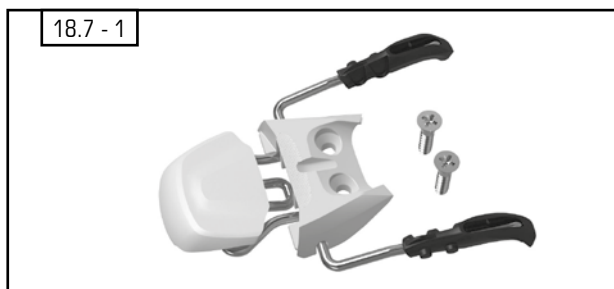
Tighten the screws by hand, do not use a power drill !

REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 21.2

18.7 REPLACING SKI BRAKES

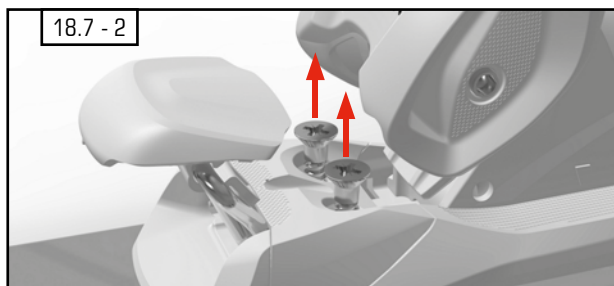


REPLACING THE SKI BRAKES JUNIOR EPS



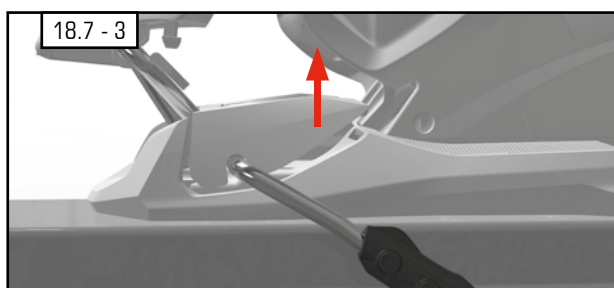
REMARK:

For the binding models Junior EPS the premounted heel platform has to be replaced by the enclosed EPS heel platform. (18.7 - 1)

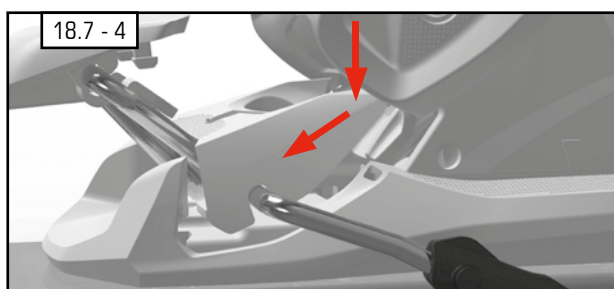


DEMOUNT THE SKI BRAKE:

- Remove the attachment screws of the ski brake (18.7 - 2).

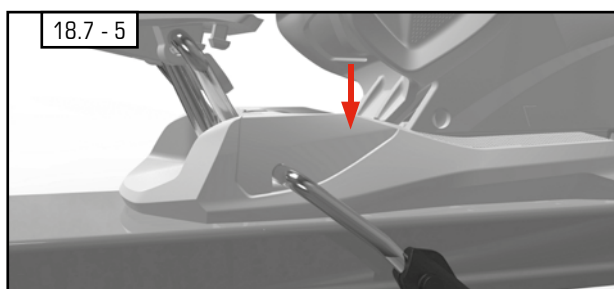


- Pivot the rear brake platform hooks carefully to remove the ski brake (18.7 - 3).



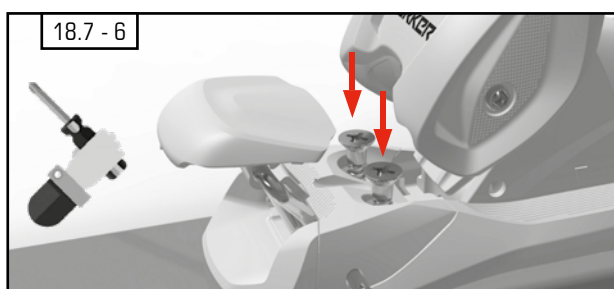
INSTALL THE NEW SKI BRAKE:

- 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. (18.7 - 4 and 18.7 - 5).



IMPORTANT !

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

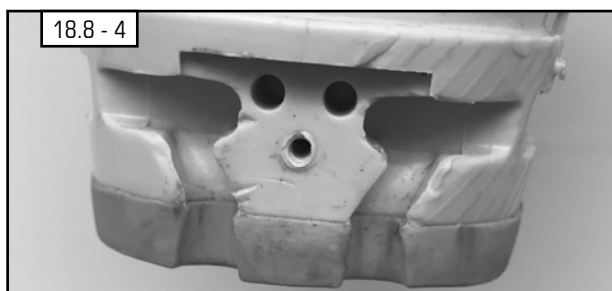
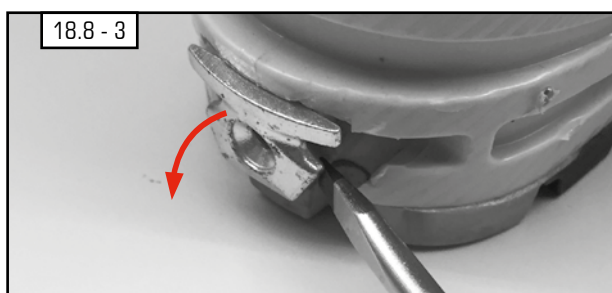
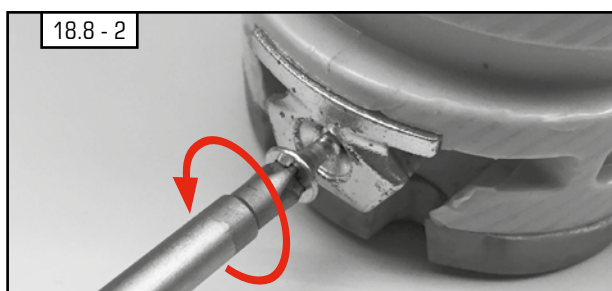


REMARK:

The wide ski brakes are replaceable in the same manner.

see BRAKE CHART → 21.2

18.8 DIN ADAPTER AT BOOT



DIN - ADAPTER AT BOOT FOR
DYNAFIT TLT 5 + TLT 6
DYNAFIT TLT Speedfit
ARC'TERYX Procline
SALOMON S/LAB X-ALP



IMPORTANT !

Tools required for assembly:
DIN Adapter,
Power drill,
Drill bit size 2,
small slotted screwdriver,
Phillips head screwdriver size PH2,
Torx screwdriver size 10
(18.8 - 1)

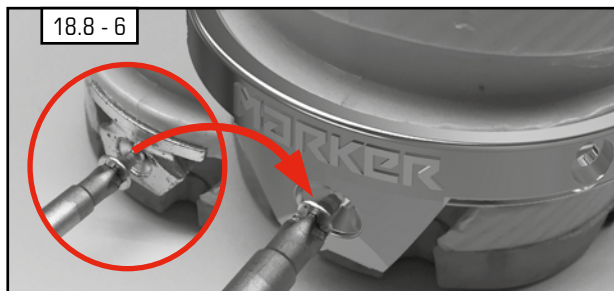
- Use the Phillips head screwdriver to unscrew the screw with which the heel insert is fixed in place. (18.8 - 2)

- Then remove the heel insert. This can be gently levered out using a small slotted screwdriver. (18.8 - 3 and 18.8 - 4)

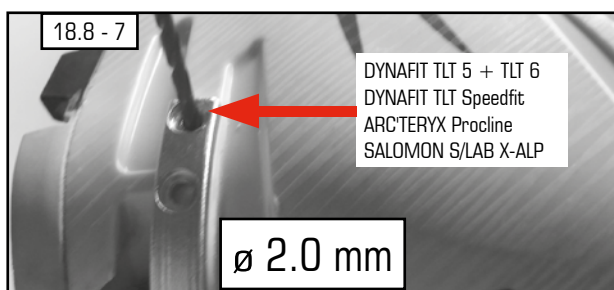
18.8 DIN ADAPTER AT BOOT



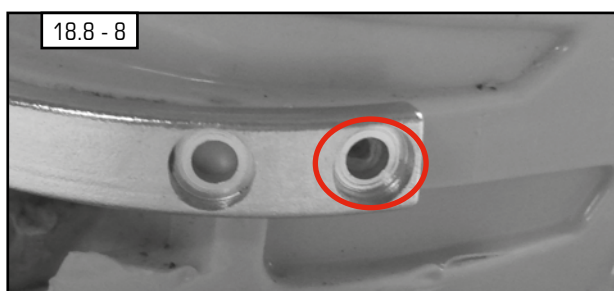
- Mount the Marker DIN adapter on the heel. While doing so, check that there is no gap between the edge of the boot heel and the DIN adapter (18.8 - 5 and 18.8 - 6). If applicable, hit the centre of the DIN adapter with a rubber mallet.



- Use the original screw from your boot to fix the DIN adapter to the boot. (18.8 - 6)



- There are drill holes at both ends of the DIN adapter. Drill into these holes that are around 5 mm deep with a 2.0 mm drill bit. (18.8 - 7 and 18.8 - 8)

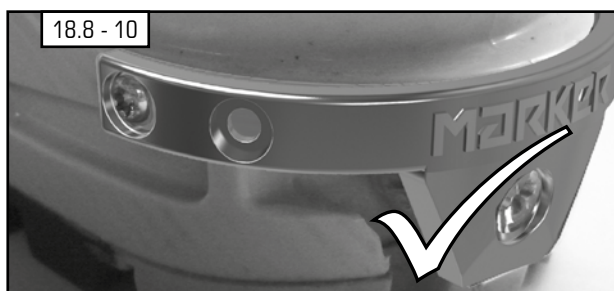


Front drill holes for:

- DYNAFIT TLT 5 + TLT 6
- DYNAFIT TLT Speedfit
- ARC'TERYX Procline
- SALOMON S/LAB X-ALP



- Then tighten the Torx screws supplied using the manual screwdriver with 0.2 Nm. (18.8 - 9 and 18.8 - 10)



19.1 GENERAL INFORMATION



DEFINITION OF GRIFFON D / TCX D & SQUIRE D BINDINGS: (19.1 - 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



DEFINITION OF FDT BINDINGS: (19.1 - 2)

MARKER FDT bindings have adjustable toes and adjustable heels.
Adjustment range (in 4 mm steps)

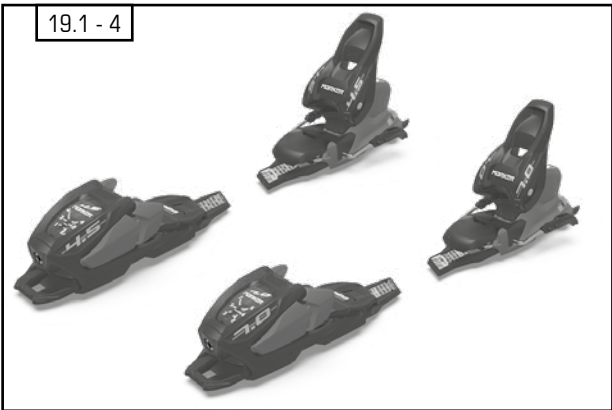
	mm	toe	heel
FDT TPX FDT TP FDT TLT	260 - 388	64 mm	64 mm



DEFINITION OF JUNIOR RENTAL BINDINGS: (19.1 - 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

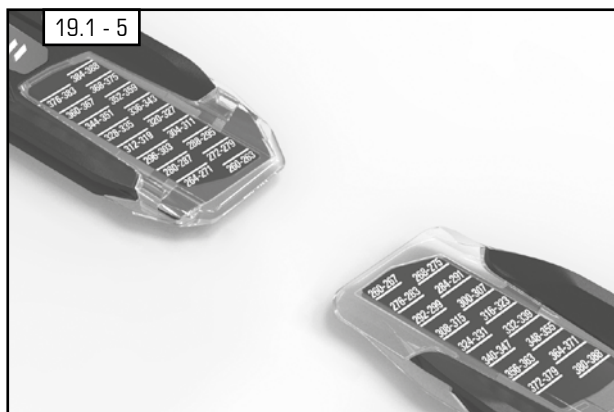


DEFINITION OF FDT JUNIOR BINDINGS: (19.1 - 4)

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

19.1 GENERAL INFORMATION

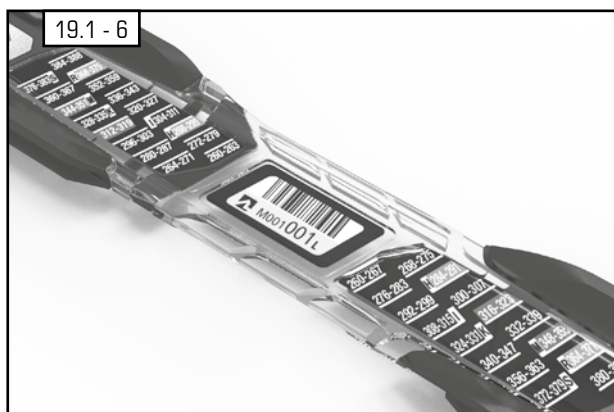


GENERAL INFORMATION BINDING - TO - BOOT ADJUSTMENT

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:

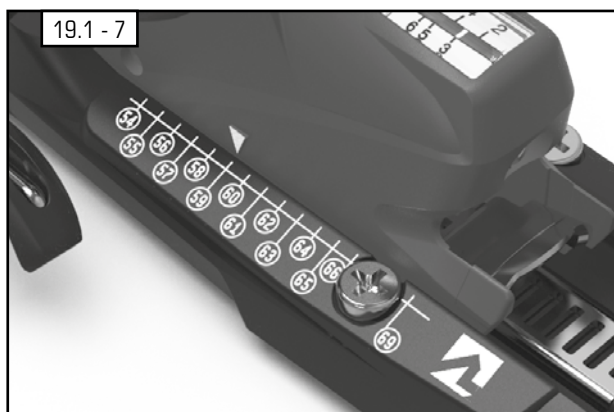
Griffon D & Griffon TCX D & Squire TCX D:

Sole length in mm (260 – 388) is marked on the toe - and heel plates. (19.1 - 5)



FDT Demo System:

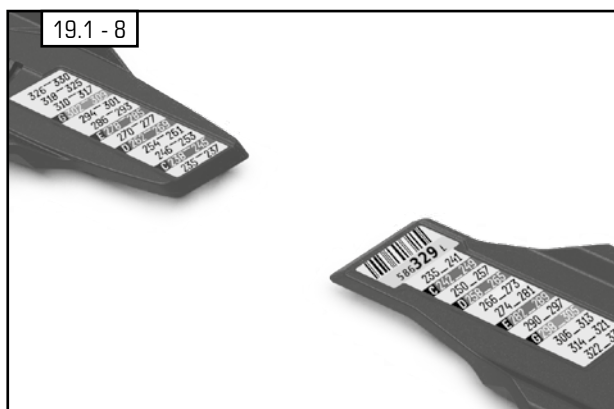
Sole length in mm (260 – 388) is marked on the FDT Demo middle plate. (19.1 - 6)



7.0 RTL / 4.5 RTL:

Number codes are placed on the heel spacers. (19.1 - 7)

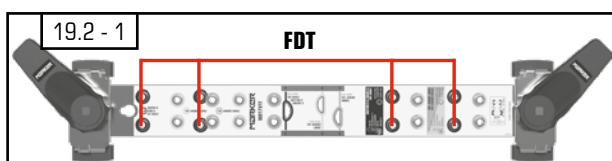
7.0 RTL	Code 54 – 69	240 – 304 mm
4.5 RTL	Code 44 – 59	200 – 264 mm



FDT Junior:

Sole length in mm (235 - 330 mm large; 190 - 285 mm small) is marked on the FDT Junior toe - and heel plates (19.1 - 8)

19.2 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.

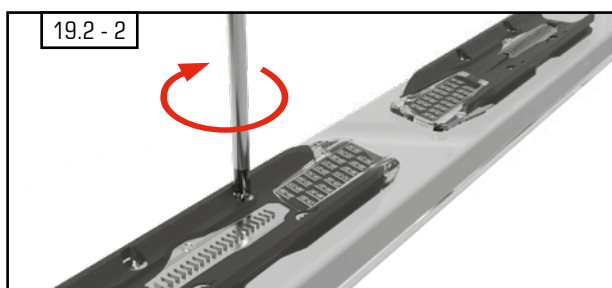
REMARK:

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

- Alpine ski boots for adults DIN ISO 5355
- Alpine ski boots for adults DIN 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 / Blizzard models FDT.



DRILLING THE ATTACHMENT HOLES:

- Place the FDT installation tool W017V1T (or W009P1T / W004Q1T) (19.2 - 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. (19.2 - 2)

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (19.2 - 3 & 19.2 - 4)



CAUTION !

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

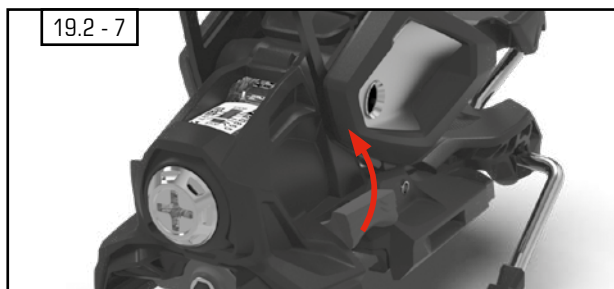
- Slide the toe to the correct sole length in accordance with the front sole length scale. (19.2 - 5)

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



- Close the toe locking lever. (19.2 - 6)

INSTALLING THE HEEL:



- Open the heel locking lever and slide the heel onto the plate starting from the rear. (19.2 - 7)
- Slide the heel forward. (19.2 - 8)



CAUTION !

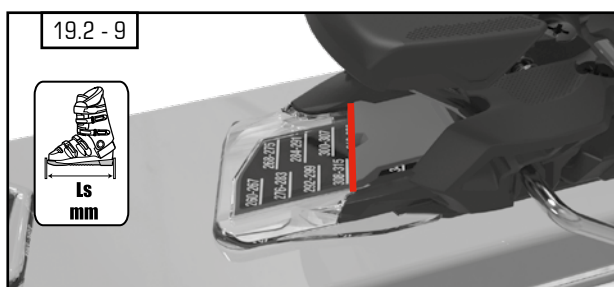
Ensure that the rails of the heel engage both sides of the base plate properly.



- Slide the heel to the correct sole length in accordance with the rear sole length scale. (19.2 - 9)
- Close the heel locking lever. (19.2 - 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. (19.2 - 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.

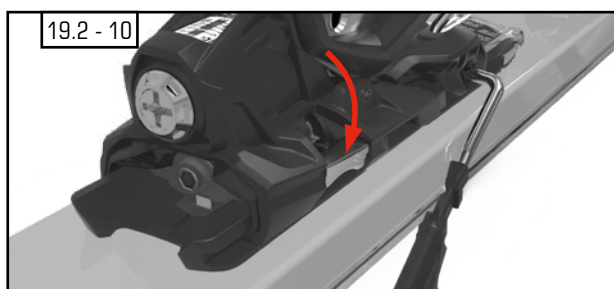


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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:

→ 17.1 - 17.3



REMARK:

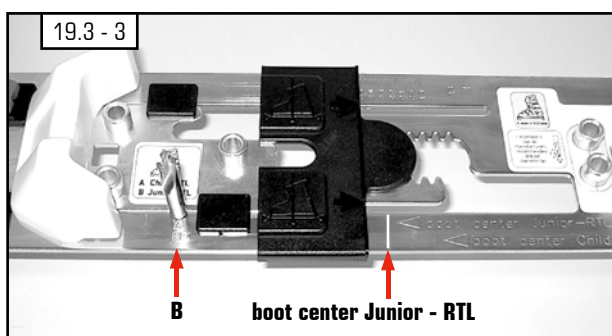
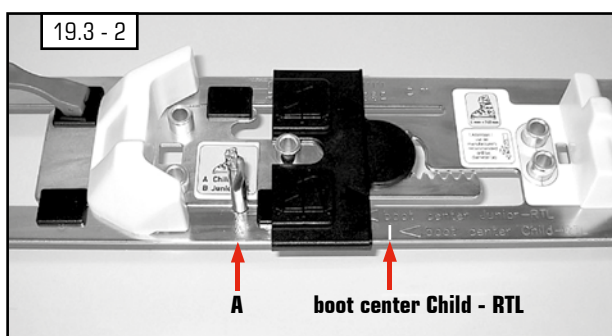
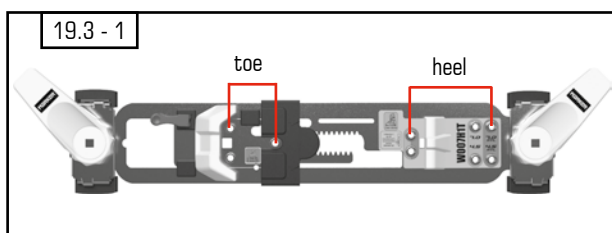
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 19.5



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: → 20.3

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

DRILLING THE ATTACHMENT HOLES:

Installation tool W007H1T (19.3 - 1)

- 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. (19.3 - 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. (19.3 - 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.

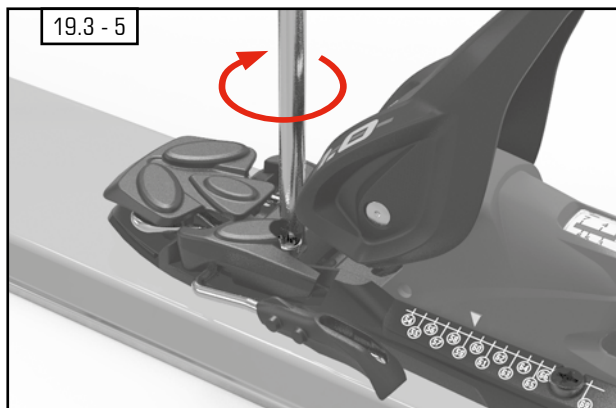
REMARK:

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. (19.3 - 4)

19.3 INSTALLATION OF 7.0 RTL / 4.5 RTL GRIPWALK

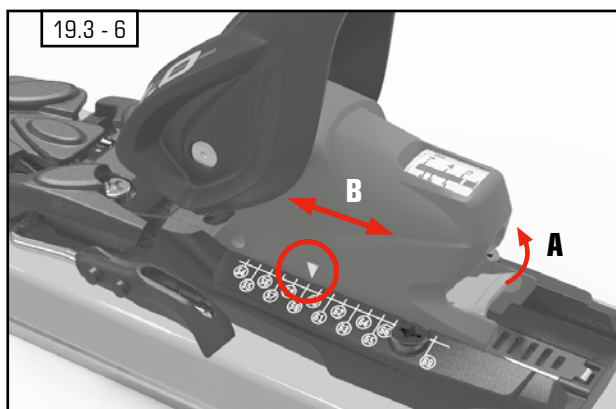


INSTALLING THE HEEL:

- Place the heel with the pre - installed screws onto the ski.
- Tighten the screws lightly, then firmly. (19.3 - 5)
- Check if all screws are tightened firmly.

ADJUST THE CODE ON THE BINDING: (see 18.1)

- 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. (19.3 - 6)
- Close the locking lever to secure heel position.



CAUTION !

Ensure that the lever is engaged properly ! (19.3 - 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 (19.3 - 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.

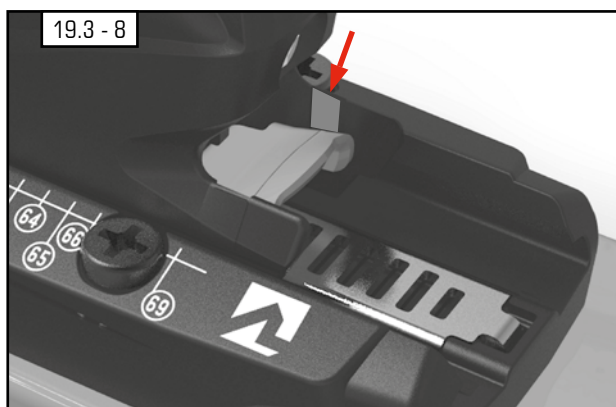
See RELEASE VALUE SELECTION AND ADJUSTMENT:

→ 17.1 - 17.3

REMARK:

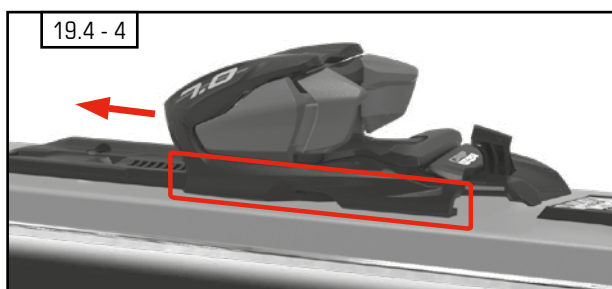
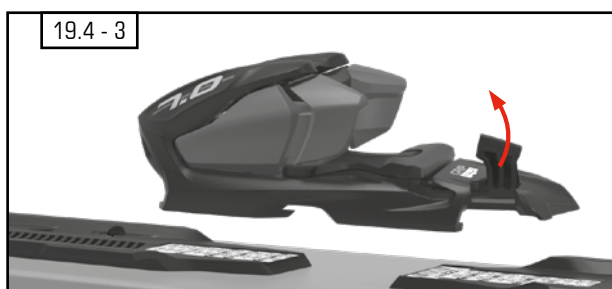
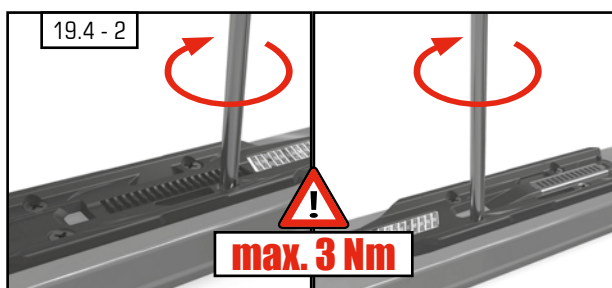
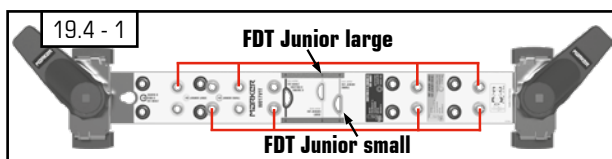
ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 19.5



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: → 20.3

19.4 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 DIN ISO 5355
- Alpine ski boots for children DIN ISO 5355 (type C)
- Alpine ski boots for children DIN ISO 23223 (type C) with the additional marking "GripWalk®"
- Alpine ski boots for adults DIN 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 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) (19.4 - 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. (19.4 - 2)

INSTALLING THE TOE:

- Open the locking lever and slide the toe from the center of the plate forward. (19.4 - 3 & 19.4 - 4)

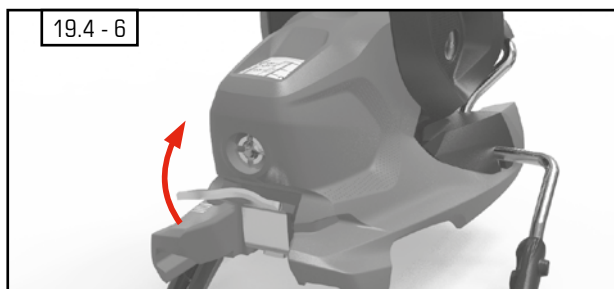


CAUTION !

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

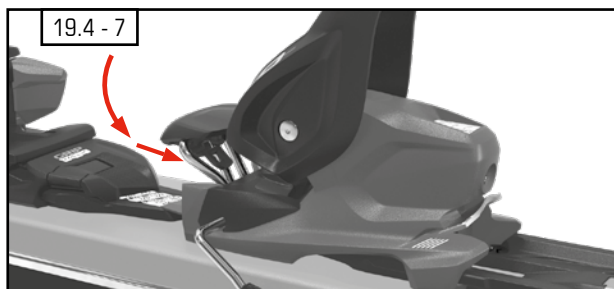
- Slide the toe to the correct sole length in accordance with the front sole length scale. (19.4 - 5)
- Close the toe locking lever. (19.4 - 5)

19.4 INSTALLATION OF FDT 7.0 / FDT 4.5 GRIPWALK



INSTALLING THE HEEL:

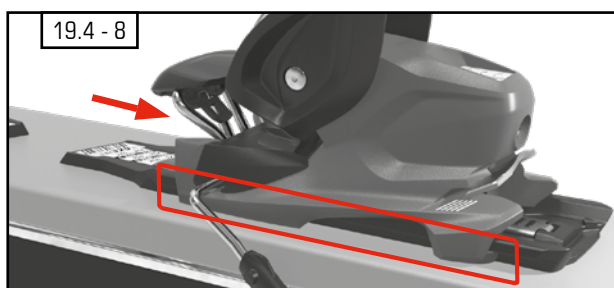
- Open the heel locking lever and slide the heel onto the plate starting from the center. (19.4 - 6 & 19.4 - 7)
- Slide the heel backward. (19.4 - 8)



CAUTION !

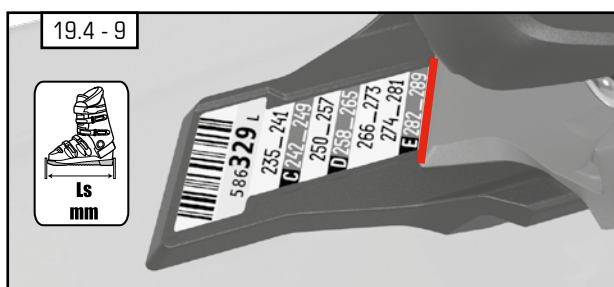
Ensure that the rails of the heel engage both sides of the base plate properly.

- Slide the heel to the correct sole length in accordance with the rear sole length scale. (19.4 - 9)
- Close the heel locking lever. (19.4 - 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. (19.4 - 11)
If the forward pressure is incorrect: remove the ski boot, lift the lever and move the heel until the forward pressure is correct.

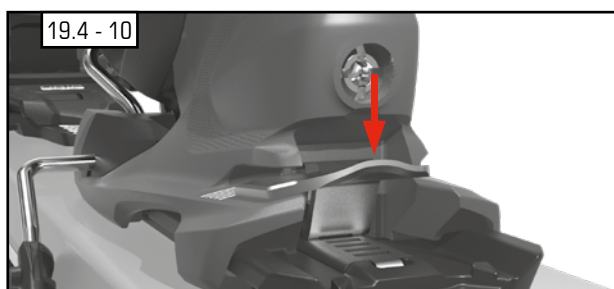


RELEASE VALUE SELECTION AND ADJUSTMENT:

- 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:

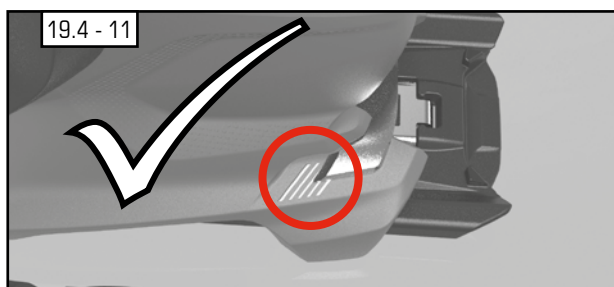
→ 17.1 - 17.3



REMARK:

ADJUSTMENT OF DEMO BINDING MODELS:

also refer to chapter → 19.5



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. → 20.3

19.5 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 this standard. 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 standards.

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

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

PRE - SEASON INSPECTION

Pre - season inspections are performed on components of the release system: bindings and boots. All rental bindings, new and used, are visually inspected, and then tested using specially selected reference boots. Exception: for new system bindings in their original packaging, which are fitted onto the plate systems pre-assembled by the ski manufacturer, the random sample is $\geq 5\%$ from stock but no fewer than 16 and no more than 80 systems – see table [B]. If stock comprises less than 16 units, 100% inspection is performed.

Bindings that fail go through a trouble - shooting procedure (→ 17.4) 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 can not 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 → 17.1 - 17.3).
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.

19.5 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 opening 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 (→ 17.4) 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 can not be corrected, the boot may be incompatible with the binding, (→ 2.3) "Verify boot sole dimensions".
 - d. Brake compatibility with sole.
 - e. Rubber and/or metal sole protectors. If such materials contact the binding or AFD the boot may be incompatible with the binding.
 - f. Mold flashings. Flashing which can be seen or felt at contact points with the binding, brake, or AFD must be carefully removed.
3. Remove from inventory all boots that have failed the visual check.

PRE - SEASON BOOT SAMPLING

Although sampling eliminates the need to test every boot before the season starts, the sample chosen must be representative of the inventory.

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

19.5 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 systems that are available for rental can be set to any skier data according to the ISO 11088 setting table (page 146 / 147); for systems that have just been returned, use the data of the last customer. Consider already applied correction factors.
3. Wipe the boot clean and release 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 146 / 150)
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.

19.5 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.

REMARK:

OVERVIEW FOR THE RENTAL PROCEDURE:
see → 21.4

20.1 - 20.3 INFORMATION FOR THE SKIER

20.1 MAINTENANCE:

To help ensure proper function, MARKER ski bindings should be kept clean and free of dirt, rust or other contaminations. 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, although 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.

20.2 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. MARKER will, at its sole discretion, repair, replace or refund the purchase price of a defective retail binding for a period of two years (USA 3 years), rental and demo bindings one year.

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.

20.3 SERVICE

WORKSHOP RECORDS:

As a MARKER certified technician, you are required to keep accurate and complete records of all work performed on any MARKER ski binding. Workshop records must be kept on file.

The workshop form includes the following required information:

- ▶ Skier name and address
- ▶ Skier weight / height / age / skier type
- ▶ Ski brand / model / serial number
- ▶ Boot brand / model / sole length
- ▶ Boot sole type (Alpine / Touring / GripWalk)
- ▶ Ski binding model
- ▶ Skier code
- ▶ System inspection result
- ▶ Visual indicator setting for each toe and heel
- ▶ Mechanical test result
- ▶ Date of inspection

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.

20.1 - 20.3 INFORMATION FOR THE SKIER

ENTRY:

- Make sure that the boot sole and the binding are clear of snow, ice and dirt.
- Open the heel sole holder 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 LINKAGE AND INTER PIVOT HEELS:

- Press down on the opening lever with the ski pole tip, boot sole, ski tail or hand and lift the heel of the boot at the same time.

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 pressing down the opening lever (TWIN CAM Step - In heels)
 - ▶ by pulling the opening lever (all other Step - In heels)

SYSTEM EXPLANATION FOR THE SKIER:

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

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.
- Also the function of the IAS - test could be shown to the skier.

IAS - TEST RECOMMENDATION:

Side release in a standing position to one side is a check whether the ski binding is correctly adjusted.

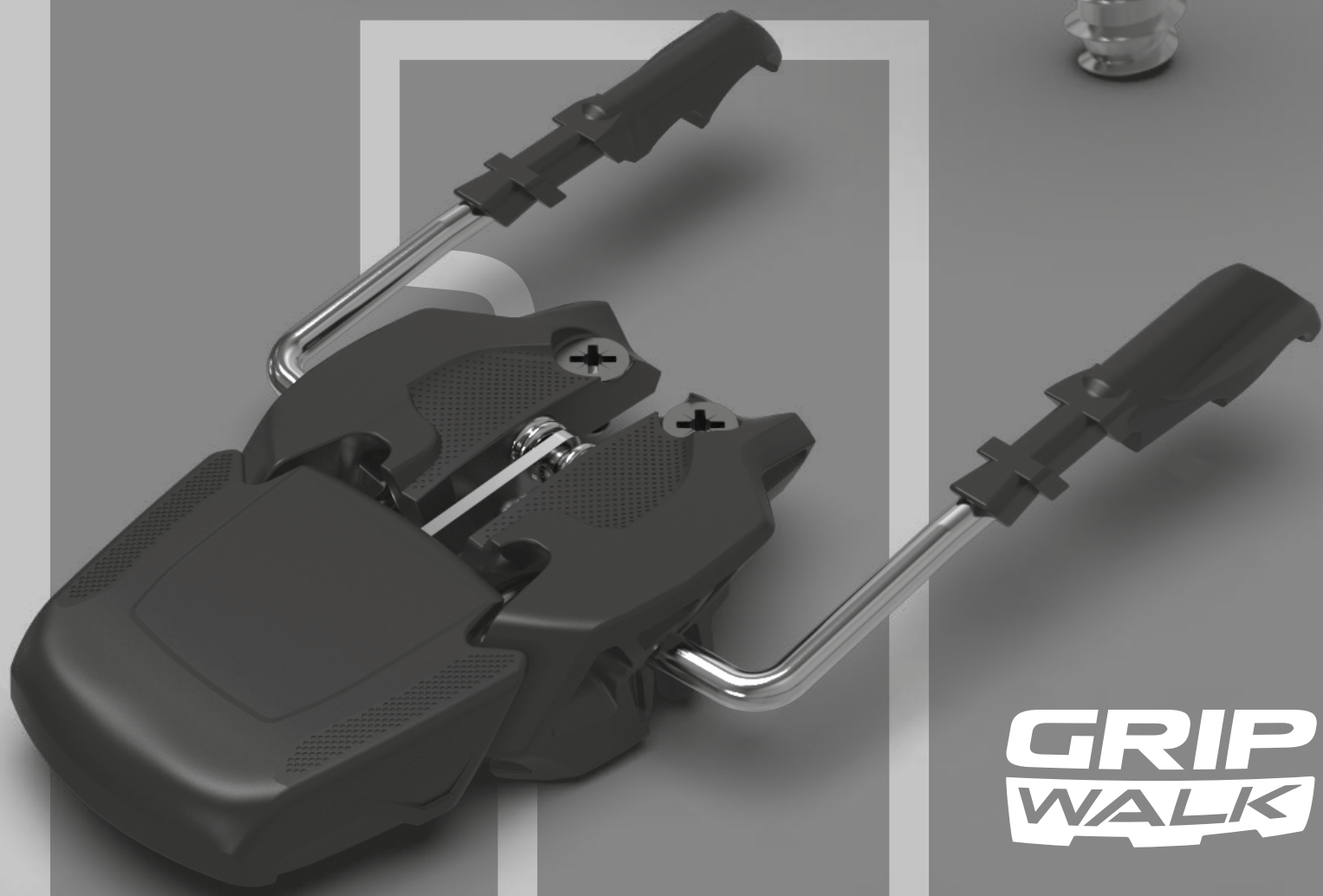
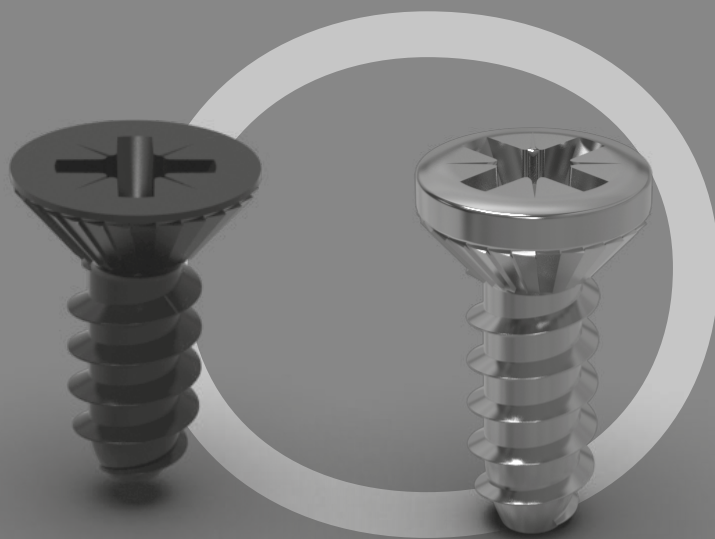
SKIER SIGNATURE

- 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.

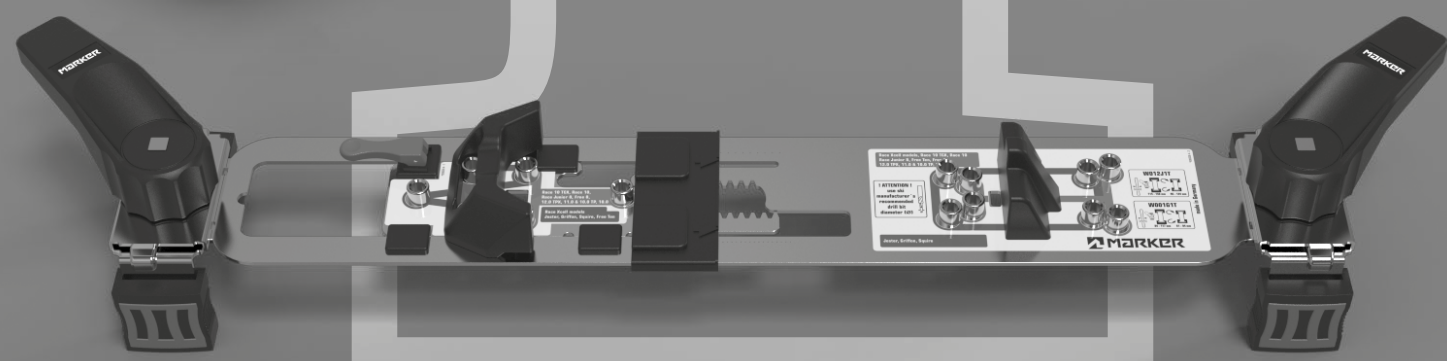


IMPORTANT !

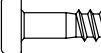
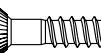
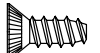
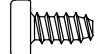
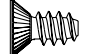
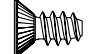
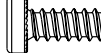
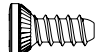
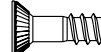
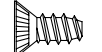
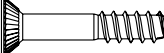
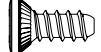
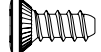
The skier should understand that there are inherent and other risks in the sport of skiing. Explain that the ski binding will not release under all circumstances nor is it possible to predict every situation in which it will release and is, therefore, no guarantee of his or her safety.



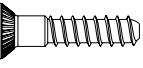
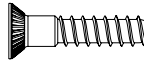
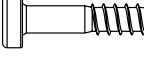
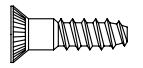
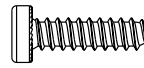
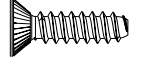
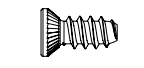
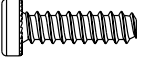
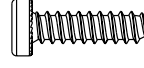
**GRIP
WALK**



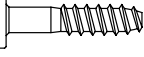
21.1 SCREW CHART

					
MARKER					
COMP 30 & 20 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)	
JESTER X 16 MWERKS GRIFFON X 13 MWERKS		 S180105 (5.5 x 16.0)	 S180105 (5.5 x 16.0)	 S180061 (5.5 x 13.5)	 S180061 (5.5 x 13.5)
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)	 S180204 (6.0 x 12.0)
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)
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)	
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	  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)

21.1 SCREW CHART

					
CRUISE 10 DEMO		  S180248 S 180162	  S180248 S180162	 S180062 (5.5 x 12.5)	 S180062 (5.5 x 12.5)
MARKER ALPINIST ALPINIST LONG TRAVEL 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 S 180162	  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)
12.0 TPX 11.0 TP		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180061 (5.5 x 13.5)	 S180138 (5.5 x 21.5)
10.0 TP		 S180128 (5.5 x 16.5)	 S180128 (5.5 x 16.5)	 S180241 (5.5 x 19.25)	 S180142 (5.5 x 23.5)
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)
COMP 14 FDT (FDT RACE PLATE PRO)		 S180244 (5.5 x 12.8)	 S180244 (5.5 x 12.8)	 S180218 (5.5 x 20.4)	 S180244 (5.5 x 12.8)
FDT TP 10 (FDT FREE PLATE / FDT PLATE)		 S180061 (5.5 x 13.5)		 S180061 (5.5 x 13.5)	
GRIFFON D & TCX D SQUIRE TCX D FDT TPX 12 (FDT HP FREE PLATE / FDT HIGH PERFORMANCE PLATE)		 S180105 (5.5 x 16.0)		 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)

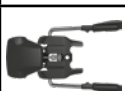
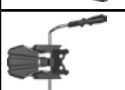
21.1 SCREW CHART

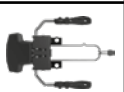
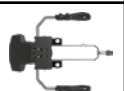
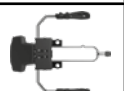
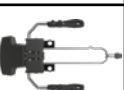
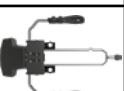
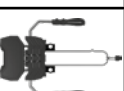
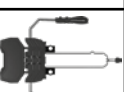
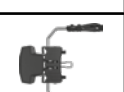
					
MARKER / VÖKL					
LOWRIDE FR & TCX RMOTION T VMOTION				brake screw  S180062 (5.5 x 12.5)	
MARKER / K 2					
QUIKCLIK MODELS				brake screw  S180062 (5.5 x 12.5)	
M2 & ERP			 S180176 (5.5 x 15.0)	brake screw  S180062 (5.5 x 12.5)	
MARKER / NORDICA					
COMP FDT TPX FDT TP2 LIGHT FDT TP2 COMPACT FDT TLT FDT				brake screw  S180062 (5.5 x 12.5)	
COMP 30 & 20 COMP 16 & 12 COMP 14 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)
TLT COMPACT			 S180176 (5.5 x 15.0)	brake screw  S180062 (5.5 x 12.5)	
MARKER / BLIZZARD					
COMP DEMO XCELL DEMO TCX / TP LIGHT DEMO TPX / TP DEMO TLT DEMO				brake screw  S180062 (5.5 x 12.5)	

21.1 SCREW CHART

					
COMP 30 & 20 COMP 16 GW COMP 14 GW & 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)
MARKER / VAN DEER					
COMP 30 & 20 COMP 16 COMP 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 13 FDT				brake screw  S180062 (5.5 x 12.5)	
STANDARD BRAKE				 S180062 (5.5 x 12.5)	
BRAKE COMPETITON & 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)	

21.2 OVERVIEW OF THE BRAKE ACCESSORIES COLLECTION

W132Z1B	Brake Royal X; 132 mm	
W01501B	Brake Royal; 136 mm	
W02601B	Brake Royal; 120 mm	
W016G1B	Brake Royal, Tour; 110 mm	
W027T1B	Brake Universal, Royal, Tour; 100 mm	
W017G1B	Brake Universal, Royal, Tour; 90 mm	
W018M1B	Brake Universal, Royal, Tour; 85 mm	
W00601B	Brake Comp TCX	
W042Y1B	Brake Comp TCX; 90 mm	
W023H1B	Brake Comp 8, Comp 10; 85 mm	
W009F1B	Brake 11.0, 12.0 flat; 90 mm	
W005F1B	Brake 11.0, 12.0 flat; 110 mm	
W020G1B	Brake Compact flat; 80 mm	
W021K1B	Brake Compact flat; 85 mm	
W004L1B	Brake Compact flat; 100 mm	
W022N1B	Brake Compact; 80 mm	
W024K1B	Brake Compact; 85 mm	
W014S1B	Brake Junior RTL	

W007R1B	Brake 7.0 & 4.5 & FDT Junior; 70 mm	
W009R1B	Brake 7.0 & 4.5 & FDT Junior; 85 mm	
W030U1B	Brake Junior Free; 95 mm	
W010S1B	KINGPIN brake; 75 - 100 mm	
W011S1B	KINGPIN brake; 100 - 125 mm	
W031W1B	MARKER ALPINIST brake; 90 mm	
W032W1B	MARKER ALPINIST brake; 105 mm	
W033W1B	MARKER ALPINIST brake; 115 mm	
W034W1B	MARKER ALPINIST LONG TRAVEL & DEMO brake; 90 mm	
W035W1B	MARKER ALPINIST LONG TRAVEL & 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	
W028U1B	Brake Duke PT; 100 mm	
W029U1B	Brake Duke PT; 125 mm	
W036X1B	Brake CRUISE; 90 mm	
W037X1B	Brake CRUISE; 105 mm	

Brakes in the following table on pages 181 - 183 which are not shown in this overview are only suitable for the binding models listed.

21.2 BRAKE CHART



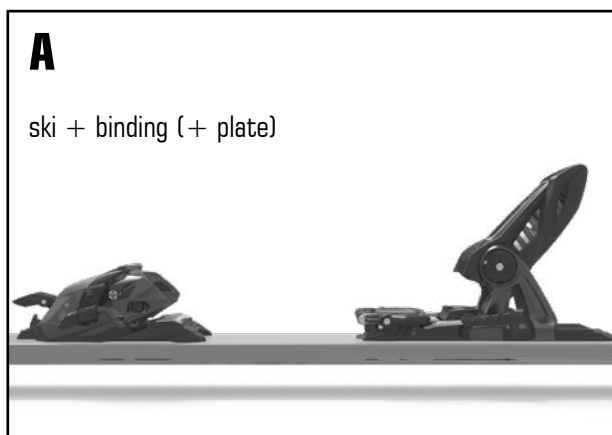
CAUTION !

MARKER guarantees proper, standard-compliant braking function only within the following limit values:

A weight

and

B stand height



Article	Description	A weight	B stand height
W01501B	Brake Royal; 136 mm	≤ 3500 g	≤ 49 mm
W02601B	Brake Royal; 120 mm		
W016G1B	Brake Royal, Tour; 110 mm		
W027T1B	Brake Universal, Royal, Tour; 100 mm		
W017G1B	Brake Universal, Royal, Tour; 90 mm		
W018M1B	Brake Universal, Royal, Tour; 85 mm		
W00601B	Brake Comp TCX	≤ 3500 g	≤ 45 mm
W042Y1B	Brake Comp TCX; 90 mm		
W023H1B	Brake Comp 8, Comp 10; 85 mm		
W009F1B	Brake 11.0, 12.0 flat; 90 mm		
W005F1B	Brake 11.0, 12.0 flat; 110 mm		
W020G1B	Brake Compact flat; 80 mm	≤ 3000 g	≤ 40 mm
W021K1B	Brake Compact flat; 85 mm		
W004L1B	Brake Compact flat; 100 mm		
W022N1B	Brake Compact; 80 mm		
W02501B	Brake Compact white; 80 mm		
W024K1B	Brake Compact; 85 mm	≤ 2200 g	≤ 37 mm
W014S1B	Brake Junior RTL		
W007R1B	Brake 7.0 & 4.5 & FDT Junior; 70 mm		
W009R1B	Brake 7.0 & 4.5 & FDT Junior; 85 mm		
W030U1B	Brake Junior Free; 95 mm	≤ 2400 g	≤ 35 mm
W010S1B	KINGPIN brake; 75 - 100 mm		
W011S1B	KINGPIN brake; 100 - 125 mm		

21.2 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			W003N1B				
Comp 20			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 X 16 MWerks				W090Z1B	W105Z1B		W120Z1B
Jester 16			W018M1B	W017G1B	W027T1B	W016G1B	W02601B
Griffon X 13 MWerks				W090Z1B	W105Z1B		W120Z1B
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 MWerks					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 12 long travel				W034W1B	W035W1B *		
Alpinist 10 long travel				W034W1B	W035W1B *		
Alpinist Jr long travel				W034W1B			
Alpinist 10 Demo				W034W1B	W035W1B *		
Alpinist 8 Demo				W034W1B			
Comp 16 GW			W00601B	W042Y1B			
Comp 12 GW			W00601B	W042Y1B			
12.0 TPX			W023H1B	W009F1B		W005F1B	
11.0 TP			W023H1B	W009F1B		W005F1B	

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

W..... Brake available as accessory

21.2 BRAKE CHART

	70 mm	80 mm	85 mm	90 mm 95 mm (*)	100 mm 105 mm (*)	110 mm 115 mm (*)	120 mm 125 mm (*)
10.0 TP		W020G1B	W021K1B		W004L1B		
Free 7				W030U1B *			
7.0 & 4.5	W007R1B		W009R1B				
Comp 14 FDT			W018M1B	W017G1B	W027T1B	W016G1B	
FDT TPX 12				W017G1B	W027T1B	W016G1B	
FDT TP 10		W022N1B	W024K1B	W017G1B			
FDT 7.0 & FDT 4.5	W007R1B		W009R1B				
7.0 RTL & 4.5 RTL	W014S1B						
Griffon 13 D			W018M1B	W017G1B	W027T1B	W016G1B	W02601B
Griffon 13 TCX D			W018M1B	W017G1B	W027T1B	W016G1B	W02601B
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							
Comp 16 GW				W042Y1B			
Lowride FR				W044Y1B			
Lowride TCX				W044Y1B			
RMotion T			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							
Comp 14 GW			W00601B				
Comp 13 FDT				W017G1B			
Comp 12 FDT				W017G1B			
TPX 13 Royal FDT				W017G1B			
TPX 12 FDT				W017G1B			
TP2 light 11 FDT				W017G1B			
TP2 Compact 10 FDT		W022N1B					
TLT 10 FDT		W022N1B					
TLT 10 Compact		W022N1B					
FDT 7.0 & FDT 4.5	W007R1B		W009R1B				
Comp 30			W003N1B				
Comp 20			W003N1B				
Comp 16			W00601B				
Comp 12			W00601B				
Comp 10 TCX			W00601B				
Comp 10			W023H1B				
Comp Junior 8			W023H1B				

21.2 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 / Blizzard							
Comp 16 GW			W00601B				
Comp 14 GW			W00601B				
Comp 12 GW			W00601B				
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)		W02501B					
FDT 7.0 & FDT 4.5	W007R1B		W009R1B				
Comp 30			W003N1B				
Comp 20			W003N1B				
Comp 16			W00601B				
Comp 12			W00601B				
Comp 10 TCX			W00601B				
Comp 10			W023H1B				
Comp Junior 8			W023H1B				
Collection Marker / Van Deer							
Comp 30			W003N1B				
Comp 20			W003N1B				
Comp 16			W00601B				
Comp 13 FDT GW				W017G1B			
Comp 12 GW			W00601B				
Comp 10 TCX			W00601B				
Collection Marker / K2							
Comp 12 FDT				W017G1B			
MXC 12 TCx light Quikclik				W017G1B			
ERC 11 TCx light Quikclik				W017G1B			
M3 11 Compact Quikclik		W022N1B	W024K1B		W045Y1B		
M3 10 Compact Quikclik		W022N1B	W024K1B		W045Y1B		
ER3 10 Compact Quikclik		W022N1B					
M2 10 Quikclik		W022N1B			W045Y1B		
Squire 10 Quikclik			W024K1B		W045Y1B		
FDT 7.0 & FDT 4.5	W007R1B		W009R1B				

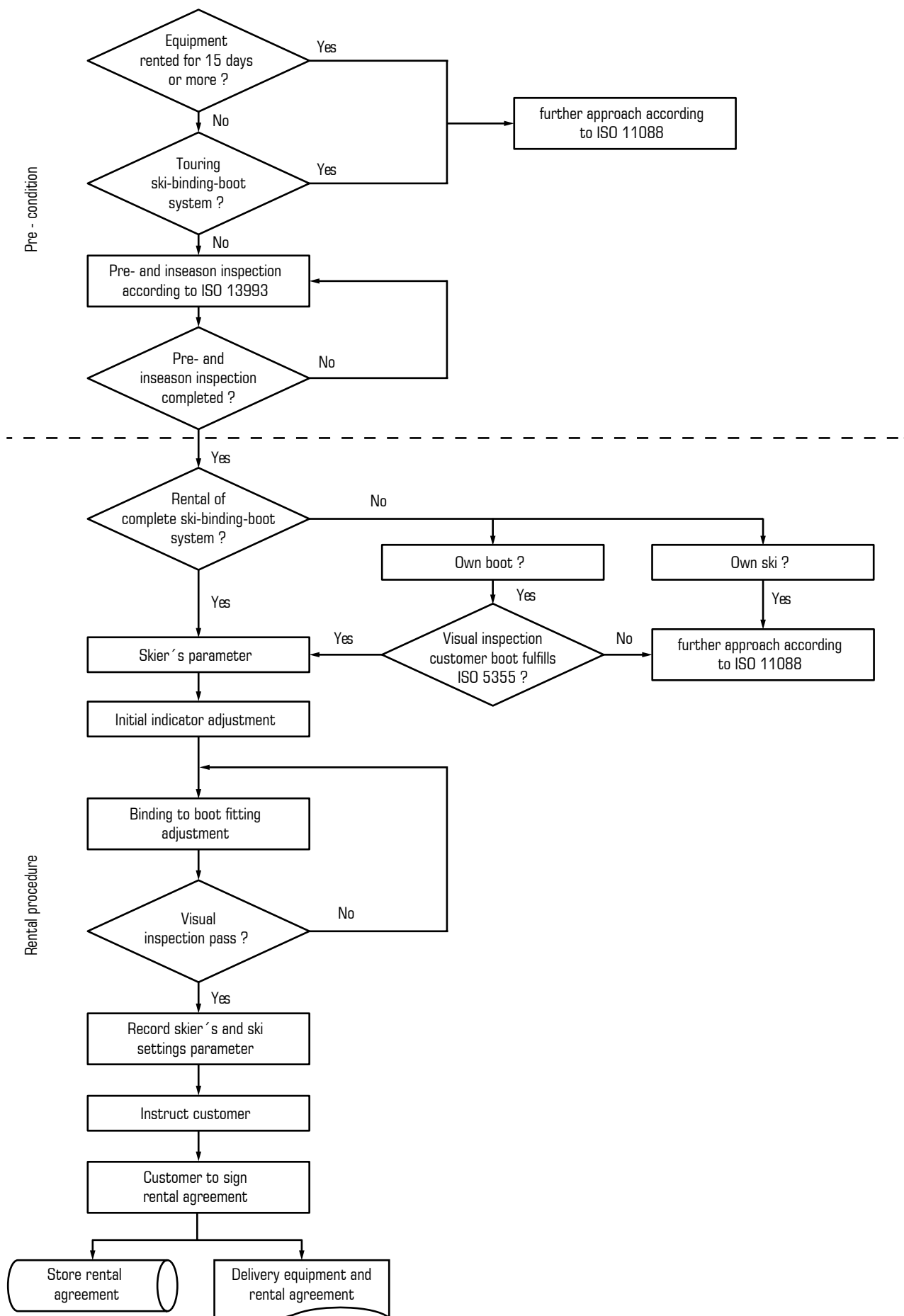
21.3 INSTALLATION TOOLS - MARKER BINDING MODELS

MARKER BINDING MODELS			INSTALLATION TOOL		
Comp 30	15.0 - 30.0	240 - 360 mm	W001G1T		
Comp 20	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 X 16 MWorks	6.0 - 16.0	240 - 370 mm	W001G1T	W012J1T	
Jester 16	6.0 - 16.0	240 - 370 mm	W001G1T	W012J1T	
Griffon X 13 MWorks	4.0 - 13.0	240 - 370 mm	W001G1T	W012J1T	
Griffon 13	4.0 - 13.0	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	4.0 - 11.0	243 - 387 mm	W020X1T	W008T1T	
MARKER ALPINIST 12	6.0 - 12.0	243 - 367 mm	W020X1T	W008T1T	
MARKER ALPINIST 10	4.0 - 10.0	243 - 367 mm	W020X1T	W008T1T	

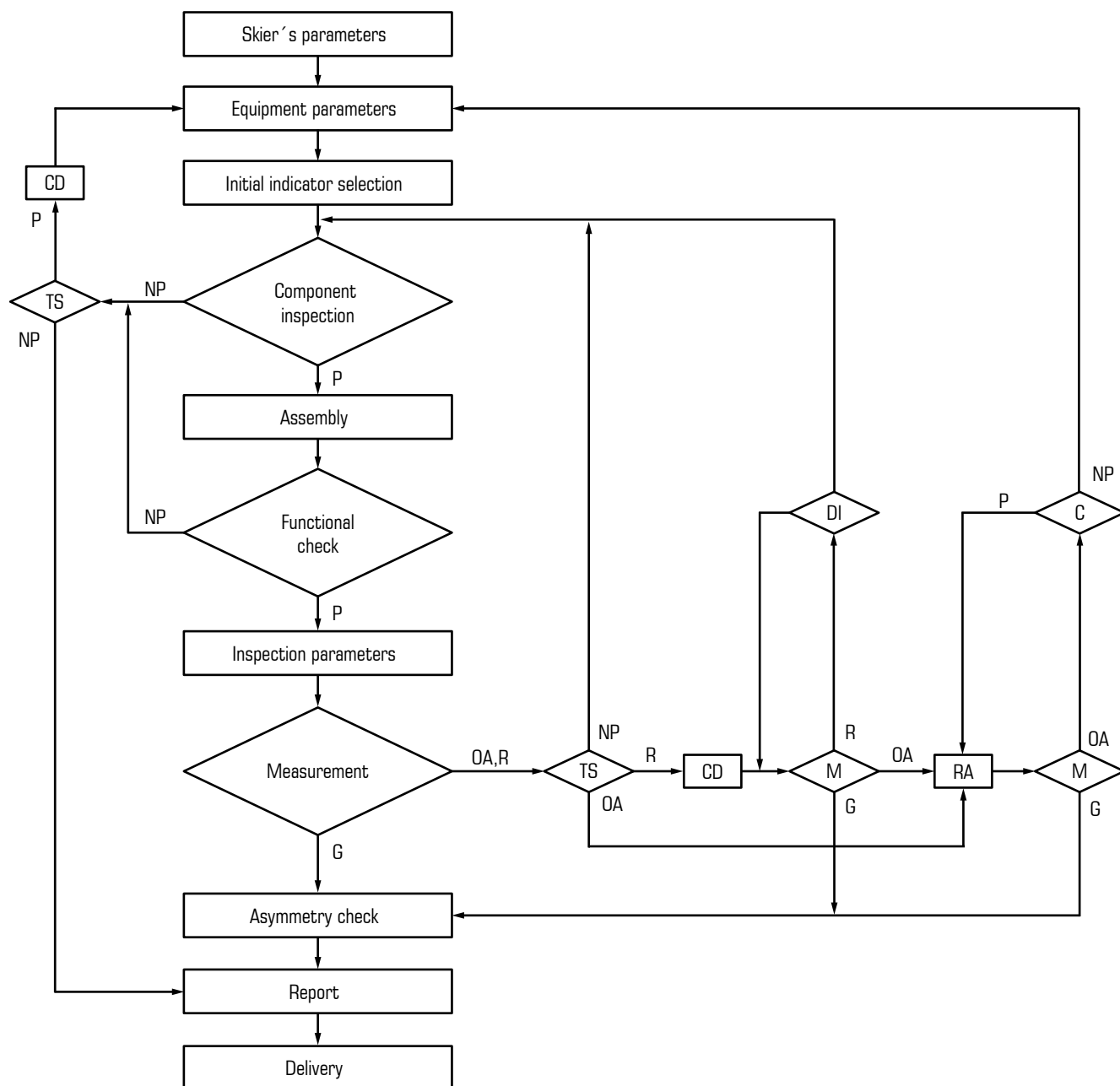
21.3 INSTALLATION TOOLS - MARKER BINDING MODELS

MARKER BINDING MODELS			INSTALLATION TOOL		
MARKER ALPINIST 8	3.0 - 8.0	243 - 367 mm	W020X1T	W008T1T	
MARKER ALPINIST 12 long travel	6.0 - 12.0	243 - 387 mm	W020X1T	W008T1T	
MARKER ALPINIST 10 long travel	4.0 - 10.0	243 - 387 mm	W020X1T	W008T1T	
MARKER ALPINIST DEMO 10	4.0 - 10.0	253 - 359 mm	W015V1T		
MARKER ALPINIST DEMO 8	3.0 - 8.0	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		
12.0 TPX	4.0 - 12.0	240 - 360 mm	W001G1T	W012J1T	
11.0 TP	3.0 - 11.0	240 - 360 mm	W001G1T	W012J1T	
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		
Comp 14 FDT	5.0 - 14.0	260 - 388 mm	W017V1T		
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
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		
Race plate Pro	ohne	260 - 380 mm	W017V1T		
FDT Race plate Pro	ohne	260 - 388 mm	W017V1T		
Comp Demo plate	ohne	260 - 372 mm	W019X1T		
World Cup PC Interface 10 mm	ohne	260 - 362 mm	W016V1T	W00201T	
World Cup PC Interface 14 mm	ohne	260 - 362 mm	W016V1T	W00201T	
FDT Q6 Junior plate small	ohne	190 - 285 mm	W017V1T	W003H1T	
FDT Q6 Junior plate large	ohne	235 - 330 mm	W017V1T	W003H1T	

21.4 OVERVIEW RENTAL PROCEDURE



21.5 ALPINE SKI/BINDING/BOOT SYSTEM ASSEMBLY, ADJUSTMENT AND INSPECTION



KEY:

P pass

TS trouble shoot

NP not pass

CD correct defect

G within accepted inspection tolerance

M re-measure

RA readjust

C check indicator run

R outside accepted re-adjustment tolerance

DI diagnostic inspection

OA outside accepted inspection tolerance,
within accepted re-adjustment tolerance

21.6 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS

		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	A	✓				
Comp 20	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 X 16 MWorks	GRIP WALK A	✓		✓		
Jester 16	MN A	✓	✓	✓		
Griffon X 13 MWorks	GRIP WALK A	✓		✓		
Griffon 13	MN 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	✓		✓		
12.0 TPX	GRIP WALK A	✓		✓		
11.0 TP	GRIP WALK A	✓		✓		
10.0 TP	GRIP WALK A	✓		✓		
Free 7	GRIP WALK CA	✓		✓	✓	✓
7.0 & 4.5	GRIP WALK CA	✓		✓	✓	✓
Comp 14 FDT	GRIP WALK A	✓		✓		
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	✓		✓		
Collection Marker / Völkl						
Comp 16 GW	GRIP WALK A	✓		✓		
Lowride FR	GRIP WALK A	✓		✓		
Lowride TCX	GRIP WALK A	✓		✓		
RMotion T	GRIP WALK A	✓		✓		

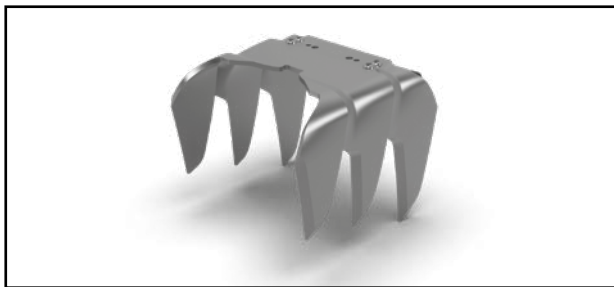
21.6 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS

		Alpine Adult 5355 Type "A"	Touring Adult 9523	GripWalk Adult 23223 Type "A"	Alpine Children 5355 Type "C"	GripWalk Children 23223 Type "C"
VMotion 12.0 TCX	 A	✓		✓		
VMotion 11.0 TCX	 A	✓		✓		
VMotion 11	 A	✓		✓		
VMotion 10	 A	✓		✓		
VMotion 9	 A	✓		✓		
7.0 & 4.5 VMotion Junior	 CA	✓		✓	✓	✓
Collection Marker / Nordica						
Comp 14 GW	 A	✓		✓		
Comp 13 FDT	 A	✓		✓		
Comp 12 FDT	 A	✓		✓		
TPX 13 ROYAL FDT	 A	✓		✓		
TPX 12 FDT	 A	✓		✓		
TP2 light 11 FDT	 A	✓		✓		
TP2 Compact 10 FDT	 A	✓		✓		
TLT 10 Compact	 A	✓		✓		
FDT 7.0 & FDT 4.5	 CA	✓		✓	✓	✓
Comp 30	A	✓				
Comp 20	A	✓				
Comp 16	A	✓				
Comp 12	A	✓				
Comp 10 TCX	A	✓				
Comp 10	A	✓				
Comp Junior 8	C				✓	
Collection Marker / Blizzard						
Comp 16 GW	 A	✓		✓		
Comp 14 GW	 A	✓		✓		
Comp 12 GW	 A	✓		✓		
Comp 12 Demo	 A	✓		✓		
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	 A	✓		✓		
FDT 7.0 & FDT 4.5	 CA	✓		✓	✓	✓
Comp 30	A	✓				
Comp 20	A	✓				
Comp 16	A	✓				

21.6 COMPATIBILITY BOOT TYPES / MARKER BINDING MODELS

		Alpine Adult 5355 Type "A"	Touring Adult 9523	GripWalk Adult 23223 Type "A"	Alpine Children 5355 Type "C"	GripWalk Children 23223 Type "C"
Comp 12	A	✓				
Comp 10 TCX	A	✓				
Comp 10	A	✓				
Comp Junior 8	C				✓	
Collection Marker / Van Deer						
Comp 30	A	✓				
Comp 20	A	✓				
Comp 16	A	✓				
Comp 13 FDT GW	 A	✓		✓		
Comp 12 GW	 A	✓		✓		
Comp 10 TCX	A	✓				
Collection Marker / K2						
Comp 12 FDT	 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	✓		✓		
M2 10 & ERP 10	 A	✓		✓		
Squire 10 Quikclik	 A	✓		✓		
FDT 7.0 & FDT 4.5	 CA	✓		✓	✓	✓

21.7 INSTALLATION OF CRAMPONS MARKER F5 JR TOUR

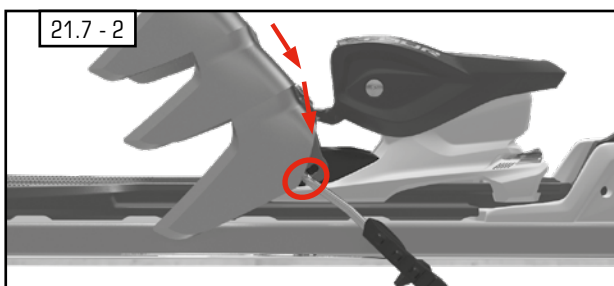
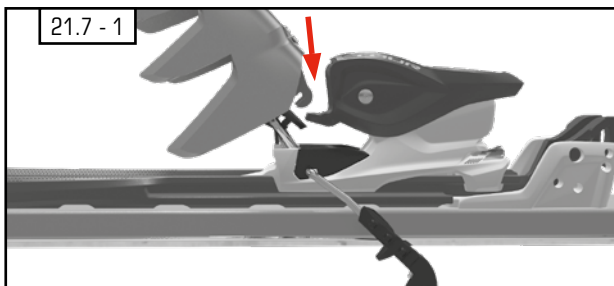


CRAMPONS:

MARKER offers special crampons for the F5 JR Tour.

INSTALLATION OF F5 JR TOUR CRAMPONS:

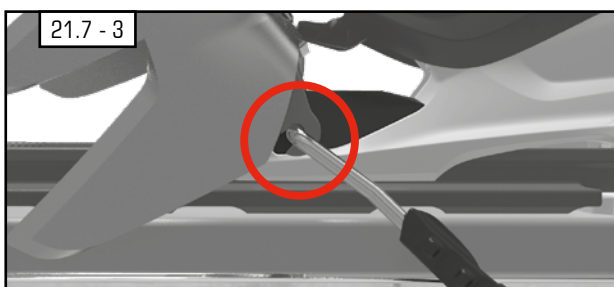
- Attach the crampon to the heel from above behind the brake pedal. (21.7 - 1).
- Move the crampon downwards between the brake pedal and the sole holder. (21.7 - 2)
- Attach the crampon to the brake arms using the two locking hooks (21.7 - 3).



CAUTION !

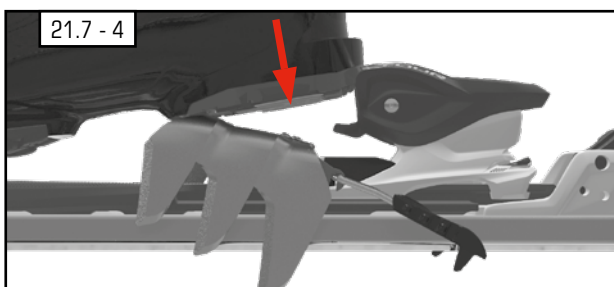
The crampon must click into place noticeably and sit firmly on the brake arms.

- Place the ski boot into the binding and close it. (21.7 - 4 and 21.7 - 5)



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.



IMPORTANT:

The crampon must not be mounted under / in front of the brake pedal. (21.7 - 6)

