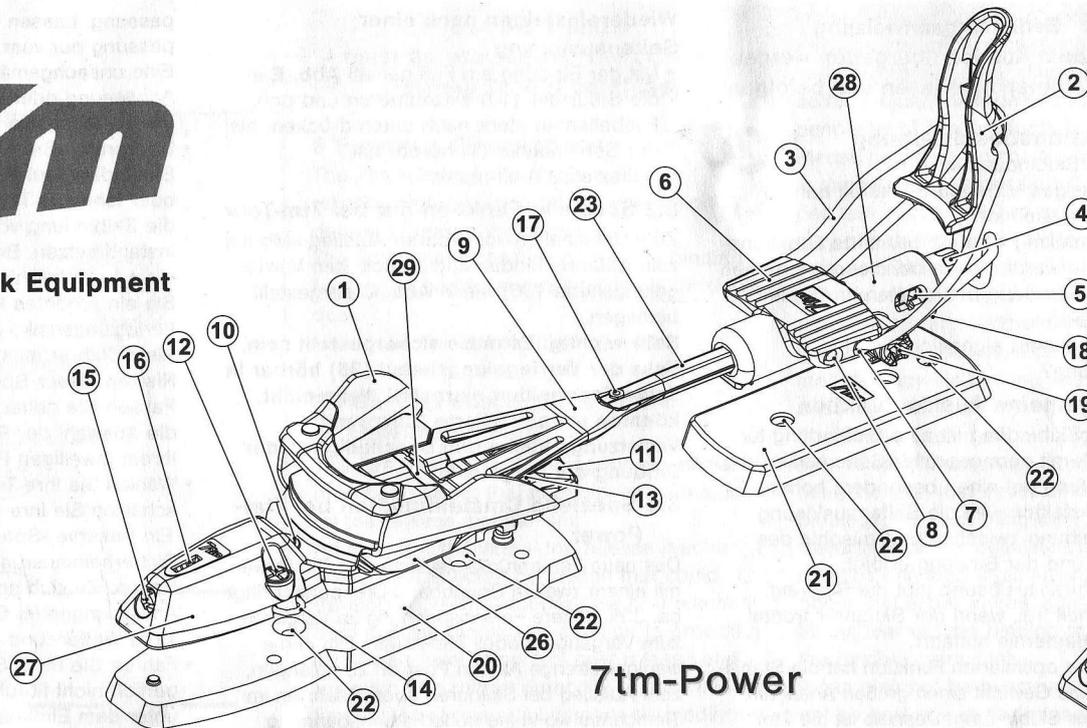


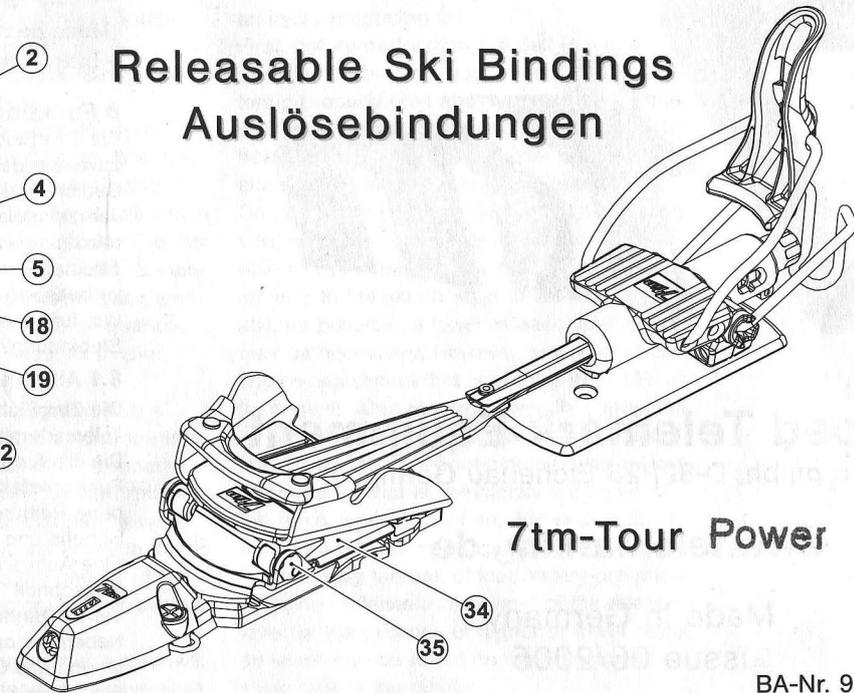
# 7tm

Advanced Telemark Equipment



7tm-Power

## Releasable Ski Bindings Auslösebindungen



7tm-Tour Power

BA-Nr. 928

### Assembly Instructions for Ski Retailers

#### Range of the binding's boot sole length adjustment

Mondo Point, approx.	24 - 31.5
UK, approx.	4.5 - 12.5
Eurosize, approx.	37 - 48



**Caution:** The release mechanism only works properly in combination with plastic boots. Soft leather boots may not transfer the expected torque to the binding to release it in the event of an injury producing fall.

#### 1 Assembly

##### 1.1 Location of the Binding on the Ski

Always follow the recommendations of the ski manufacturer for the location of the binding on the ski. There are two principle methods for locating the binding on the ski, **Pict. A**.

a) Skis that have a mark for the location of the binding:

Most ski manufacturers mark the location of where the binding should be mounted on the ski surface. The **center of the boot line or a 3Pin Line**. Some telemark skis are marked for the "3pin line" where the 3pins would be that would fit in the toe of your telemark boot. Check the ski carefully to determine which location it is.

b) Ski without a mark for the location of the boot:

**Toe of the boot -15 mm (3 pin line) = center of the ski (half of the cord length)**. But this does not work with twin tip ski. Extremely wide skis can be mounted, using the 7tm paper template as a means for locating the drill-holes.

7tm ski bindings have been developed for use only with PAIRS of skis. If the 7tm ski binding is modified in any way, or mounted on a mono ski or snowboard, all warranty claims or any other claims are void.

##### 7tm Mounting Jig

**Pict. B:** Please note the corresponding frame size (punched into the mounting jig).

Drill holes (22) for riser plates only if required.

- Turn both opening levers until the jaws of the jig are completely open. Place the jig flat onto the ski surface and tighten the gauge.
- Positioning of the mounting jig. Skis with location mark:

Transfer the center of the boot sole or, if provided, the location-mark on the boot, to the length-scale (cm) on the mounting jig. Adjust the proper value on the scale of the jig to the location-

#### 1.6 Ski Brake

Only for a maximum ski width ( measured underneath the binding) up to [ x ] mm – (see brake size at the bag).

**Mounting:** Before mounting the 7tm on the ski, the brake lever has to be positioned underneath the binding as indicated in the **Pict. M**. It is essential that the plastic levers itself swing back and the plastic hooks of the 7tm brake levers are aligned against direction of travel (see picture) – otherwise the components can be severely damaged or the brake will not work.

**Warning: The 7tm brake only swings into a braking position after a release of the binding mechanism! There will be no brake effect as long as the heel lever comes loose, but the boot holding device remains in the binding! To avoid such an unintended opening of the heel lever it should be secured with a safety strap (see Pict. N).**

#### 1.7 Telemark ski leash

- Leashes (24) are attached on ringlet for ski leash (14) according to **Pict. H**

#### 1.8 Telemark Safety Strap

Use an safety strap as indicated in the **picture N** in connection with the brake: To avoid an unintended opening of the heel lever it should be secured with a safety strap.

Secure the loose end of the strap against slipping through as indicated in the **picture N**.

If worn or damaged, the safety strap should not be used any more and be replaced!

#### 2 Fitting Boots to the Binding

- For the adjustment of the boot length, you first have to open the heel fastener (2) and place the boot into binding.
- Now, with the boot all the way into the binding, lift the "heel plate" to the point that the length adjustment screw can be turned conveniently until the boot fits into the binding (see **Pict. F**).

**Important note: For extremely short boots, the heel bar (3) can be changed from the regular position (7) to "extra short" (8), Pict. G.**

- The pressure between the boot and the binding is correct when the inner edge of the length adjustment screw (4) can be seen in the center of the pressure scale (5), as noted in **Pict. F**. Step the boot into and out of binding several times, insuring that the toe of the boot is all the way into the toe of the binding – and then converge upon the correct forward pressure.

recommended by 7tm, voids all claims.

#### 3.2 Measuring Release Torque with Test Equipment

After the assembly, adjustment and functional inspection have been carried out properly, the binding must be checked with ski binding test-equipment that is certified according to DIN / ISO 11088. (Note: Measuring the release torque is not applicable for telemark bindings in North America, but you must follow these instructions to achieve a "recommended pre-setting" in North America).

**Caution: Note the instructions of the test-equipment manufacturer.**

This inspection validates that the actual release values (given in daNm of torque) are within the specified tolerances of the adjusted release values. According to DIN / ISO 11088, a tolerance of  $\pm 15\%$  is allowed between the actual and the expected release torque. After testing, provide your customer with the inspection report together with the functionally-acceptable ski-boot-binding system. If the test-equipment cannot print a report, the results are to be documented in writing. In addition to documenting the release measurement data, the data given in chapter 5.1 must be documented, too.

#### 4 Troubleshooting Procedures

Conduct the following tests after measuring the lateral release and after the heel fastener has been adjusted properly:

Check that the ski, the binding and the boot meet the visual inspection criteria.

**Note: all used bindings must be cleaned prior to inspection.**

##### 4.1 Additional Functional Inspection of Lateral Release

###### Inspection for lateral elasticity and re-centering:

Hold the ski tightly and apply an impact to the toe area of the boot by hand or by using a rubber hammer.

The lateral release mechanism at the toe should move 6 - 10 mm. The boot should return-to-center quickly and without being excessively delayed by friction. If the release mechanism moves more than 10 mm laterally, the binding will release, completely.

Before testing further, the release mechanism must be reattached and the boot must be re-entered into the binding.

If the system functions properly

Measure the release values with the ski binding test-equipment.

If the system does not function properly

**Slow, incomplete return to the center:**

- Check to determine if the release mechanism is excessively

- With the binding attached to the boot according to **Pict. E**, center the cam-roller (10) – and press down on the ball of the foot with enough force to hear the sole-retainer click into the holding-block (11).

#### Explanation of the System:

- Demonstrate the boot/binding system to the skier
- Explain to the skier where the release adjustment screw is located and which release values have been specifically and individually selected and adjusted for them. The skier should always be informed about their Recommended Pre-setting release adjustment values.
- It must always be explained to the skier that the risk of injury increases significantly when parts of the system do not meet the standards or when they are excessively worn.
- Explain how to re-connect the release mechanism after release.
- It must always be pointed out to the skier that they should contact a ski retail specialist as soon as any problems occur regarding the ski, the boot, the binding or the ski-boot-binding system.

#### Maintenance

- It must be explained to the skier that the binding must always be free of dirt, salt and corrosion.
- The skier must be advised to take the complete ski-boot-binding system to a ski retail specialist at the beginning of each season or every 60 skier days, which ever is first, to check, measure and readjust it.
- The skier can also be shown IAS "Self-Release" method. The IAS Self-Release method allows twist release adjustment of the binding, if the binding is first functioning correctly – especially to signal, on the slope, if there is a gross impediment to release.

#### 5.3 Signature of the Skier on the Inspection Certificate and/or Adjustment Card

- Correct explanation of the entry, exit and re-connection procedure.
- Call the skier's attention to the release values. The skier must confirm that the adjustment(s) on the actual binding are the same as those noted on the adjustment card.
- The skier must read the notations and confirm that they understand and agree to any special waivers.

The skier should be aware of the risks of this sport. 7tm intends to reduce these risks to a minimum. It should be noted that no binding can guarantee release in every situation.

	Toe piece	1	S
	Heel fastener	2	F
	Heel fastener bar	3	F
	Length adjustment screw	4	L
	Forward pressure adjustment	5	A
	scale		
	Standing plate	6	S
	Heel fastener housing,	7	F
	Pos. "standard"		P
	Heel fastener housing,	8	F
	Pos. "extra short"		P
	Tension strap	9	S
	Roller-cam	10	S
	Holding block	11	H
	Front binding screw	12	B
	Rear binding screw	13	B
	Ringlet for the ski leash	14	F
	Adjusting screw	15	E
	Adjusting scale	16	E
	Connecting screw	17	V
	Split pin	18	S
	Housing for the climbing heel	19	S
	Front part of the riser plate	20	C
	optional		O
	Rear part of the riser plate	21	C
	optional		O
	Screws for riser plates	22	S
	optional		O
	Marking for the length	23	U
	Ski leash	24	A
	Anti icing plugs	25	A
	Upgrade plate	26	E
	Release housing	27	A
	Pressure spring (inside)	28	A
	Power pin	29	F
	Touring Hinge	34	T
	Axle & Nuts	35	T
	Touring Lock	36	T

