



New Telemark Norm

The New Telemark Norm (NTN) is the most powerful and skier-friendly binding ever developed for telemark skiing. It offers the simplicity and security of an alpine binding without sacrificing the freedom of the telemark turn. Leaving the traditional 75mm duckbill behind, the progressive NTN has redefined free heel technology.

The NTN provides:

- Increased lateral stability.
- Greater edge control.
- Quicker edge to edge response.
- Adjustable binding position.
- Free pivot touring function.
- Symmetrical bindings.
- Easy "step-in" like entry.
- Release function.
- Ski brake.





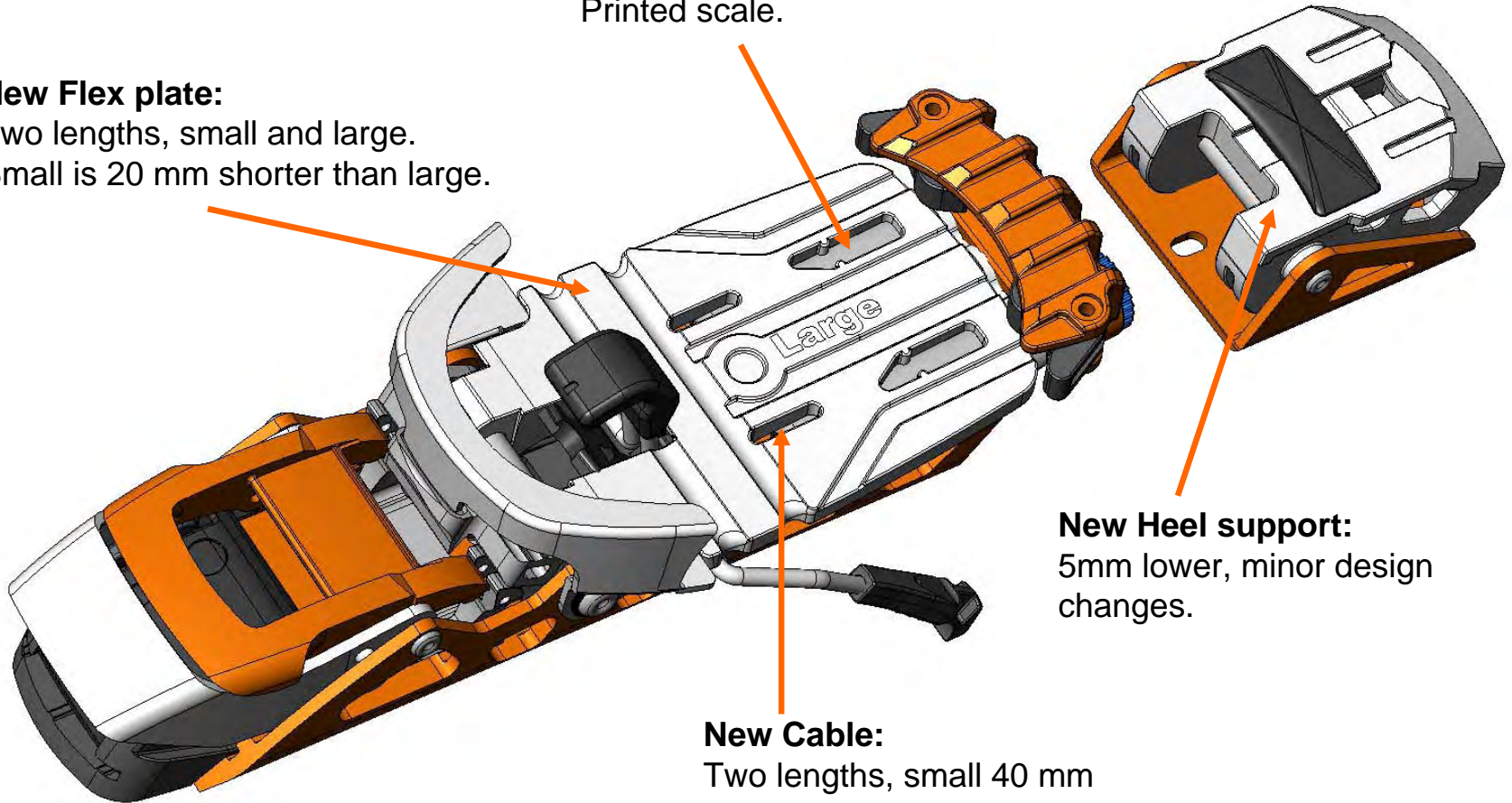
NTN 2008/2009 – changes/improvements





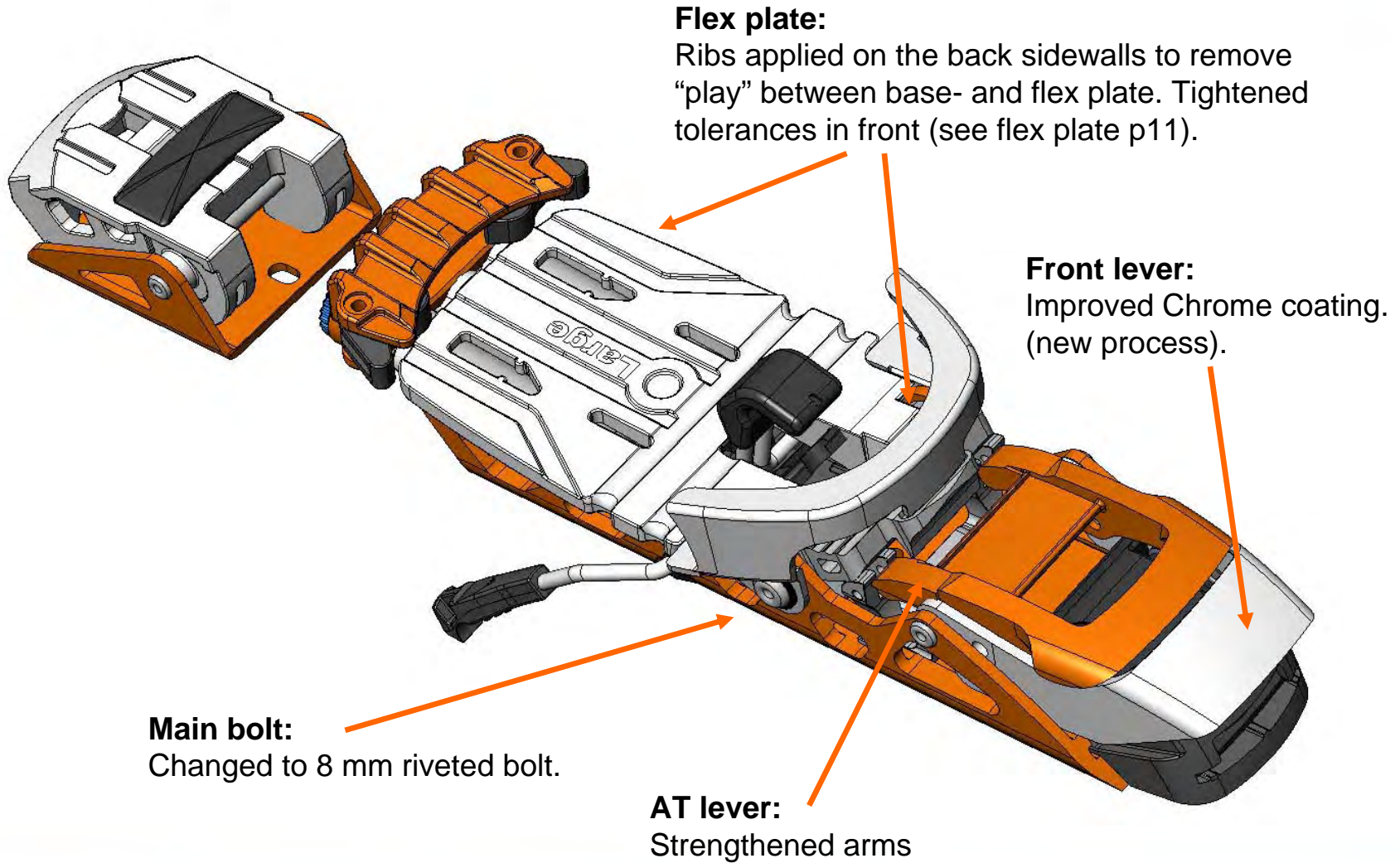
New Power Tube.
Printed scale.

New Flex plate:
Two lengths, small and large.
Small is 20 mm shorter than large.



New Heel support:
5mm lower, minor design changes.

New Cable:
Two lengths, small 40 mm shorter than large.



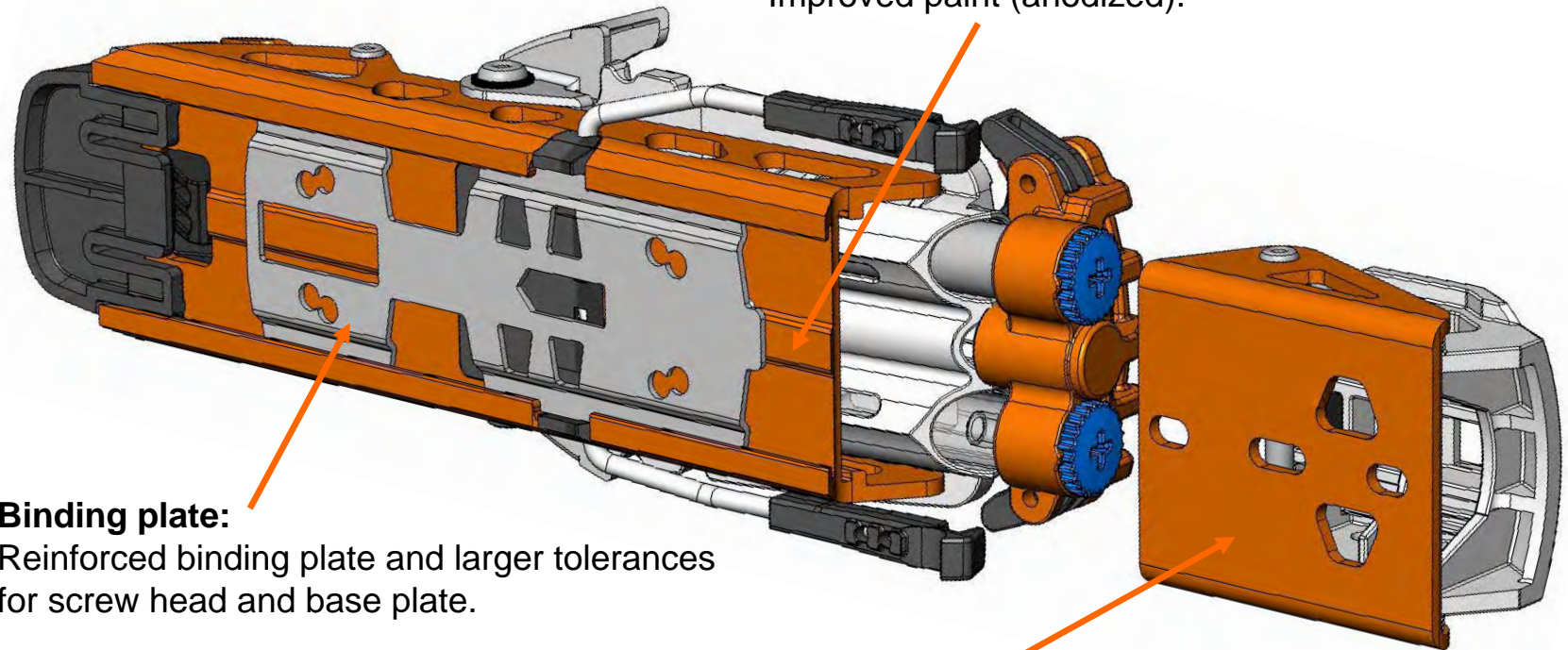
Main bolt:
Changed to 8 mm riveted bolt.

AT lever:
Strengthened arms



Base plate:

Reinforced connection between binding (base plate) and ski (binding plate). The amount of threads in the base plate are doubled for better hold. Improved paint (anodized).



Binding plate:

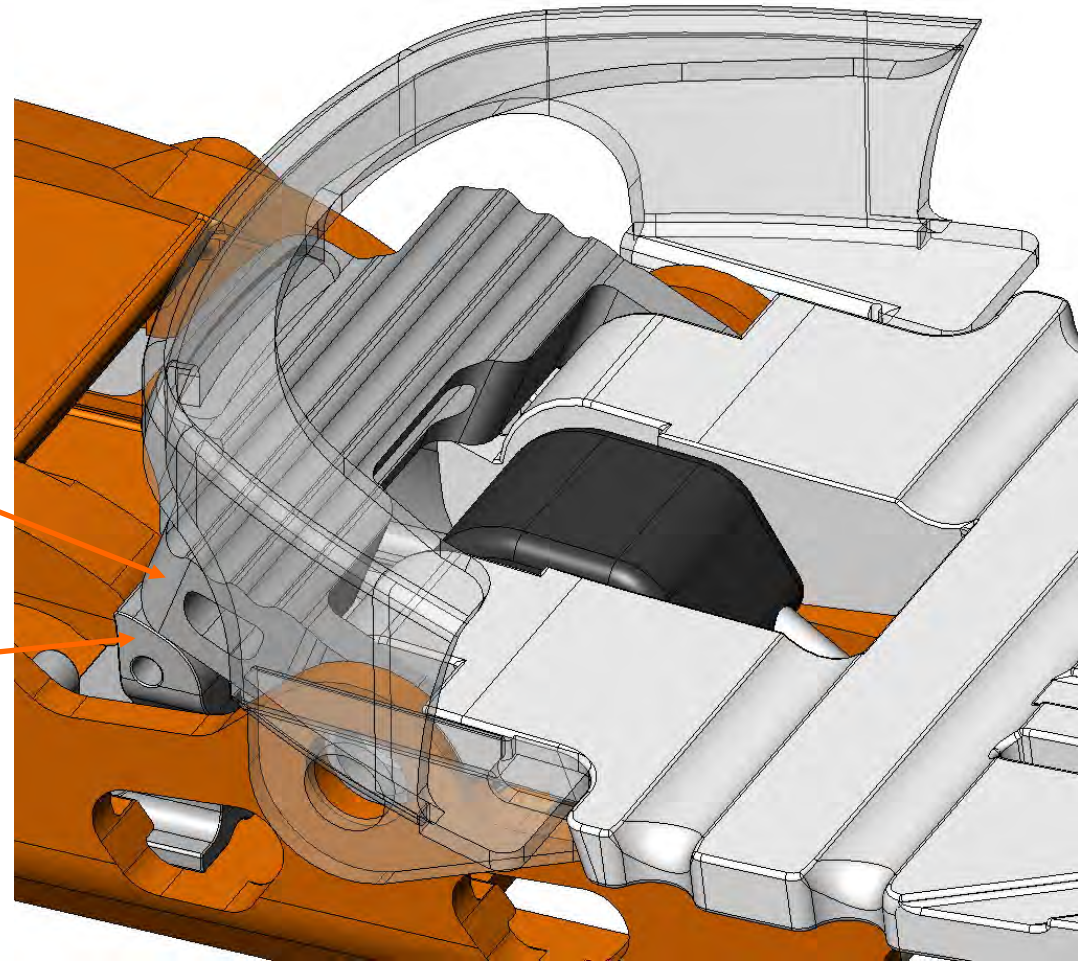
Reinforced binding plate and larger tolerances for screw head and base plate.

Heel base:

Improved paint (anodized).

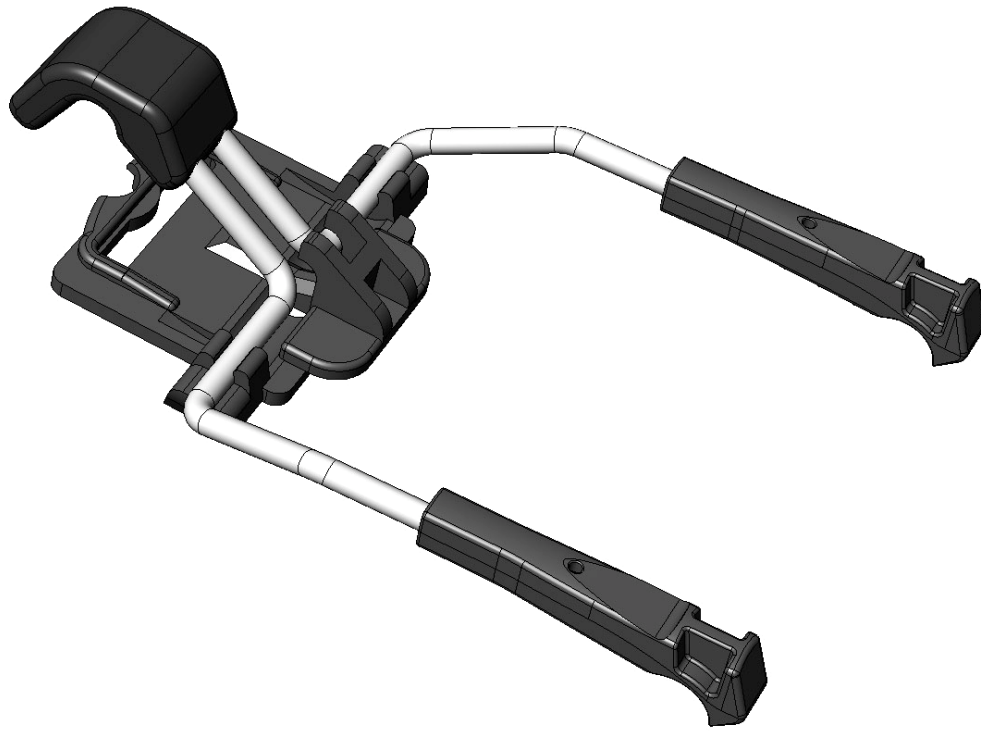
Mid part:

Optimized interface between mid part and AT support (avoid blocking). Reinforced construction.



AT support:

Ribs underneath AT support to avoid icing. Interface to mid part changed for easier closing. Reinforced construction.



Ski Brake

- wide molded platform on top
- less wear/tear on boot sole
- easier entry and exit





Large binding (size 26.5 - 32.0 mondo)

Short binding (size 23.0 - 26.0 mondo)

The bindings are identical except that the small has:

Flex plate: 20mm shorter

Cable: 40mm shorter

Hook: 20mm shorter steering pin/spring

New Power Tubes:

Four available tensions:

white (x-soft)

green (soft),

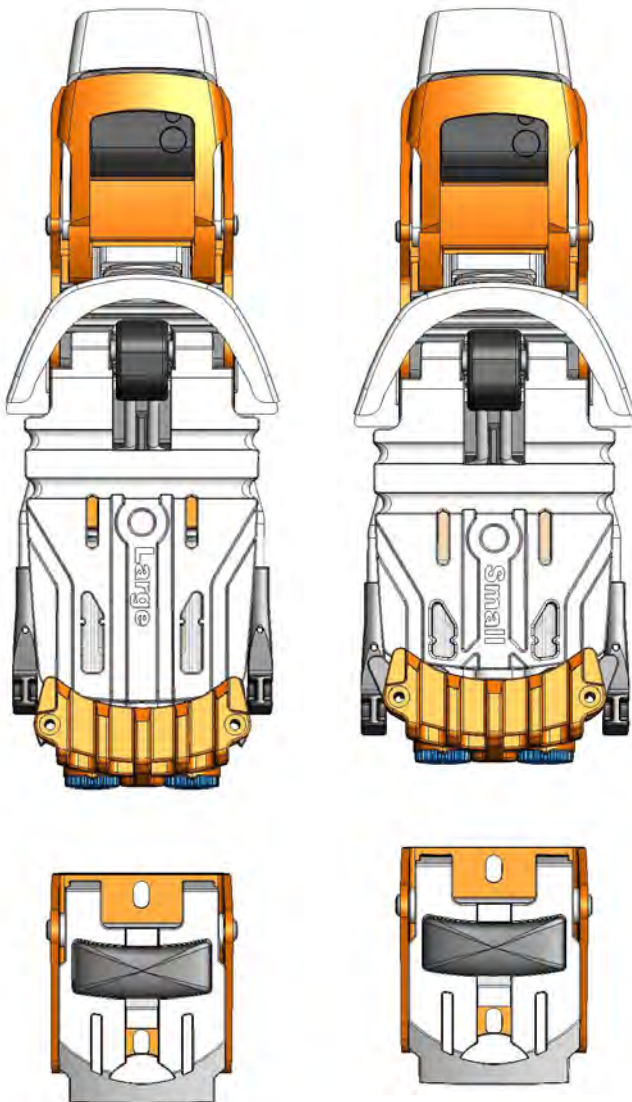
blue (medium)

red (rigid)

Shorter than 2007/2008 model. Located approx. 20 mm back, allowing the flex plate to flex more. Easier adjustment.

New Heel support:

Lowered the heel 5mm and redesigned shape for improved strength.



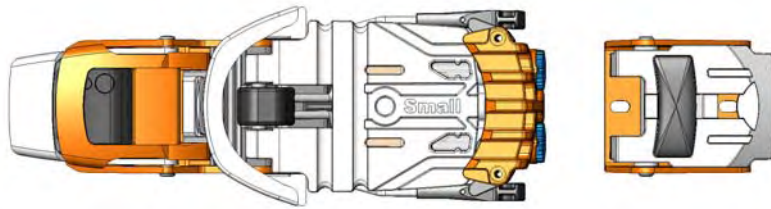


Four standard binding selections.

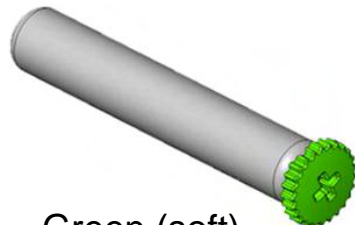
Small binding:

White Power Tube or Green Power Tube
(extra soft or soft)

Small



White (x-soft)

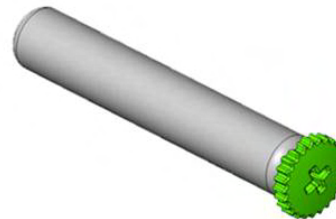
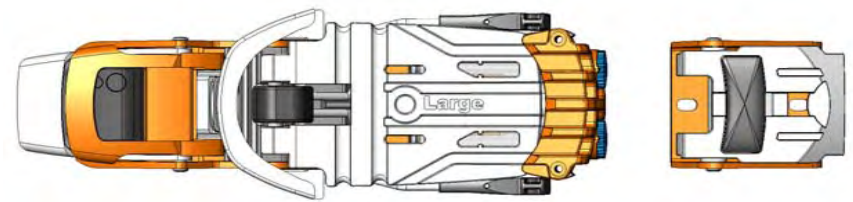


Green (soft)

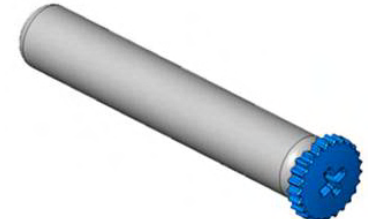
Large binding:

Green Power Tube or Blue Power Tube
(soft or medium)

Large



Green (soft)



Blue (medium)

Rottefella

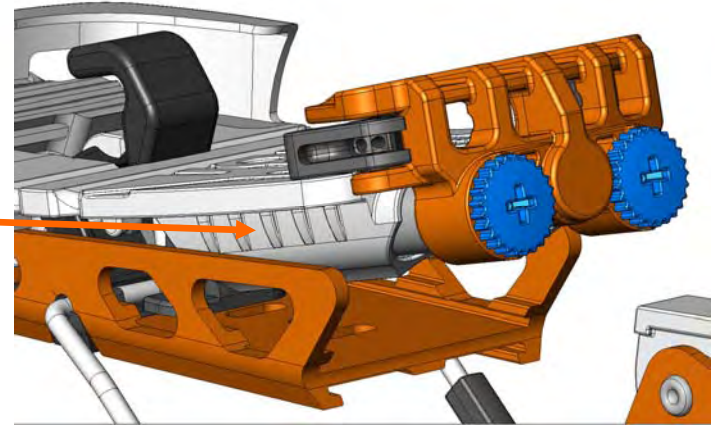
Flex plate





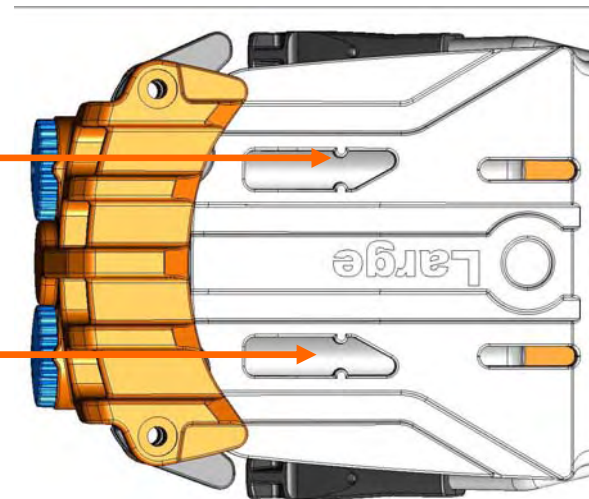
Flex plate

New ribs on each side of flex plate to minimize play between flex plate and base plate.



Power Tube indicator on flex plate is moved to fit shorter springs.

Power Tube scale will change from sticker to print.



Rottefella

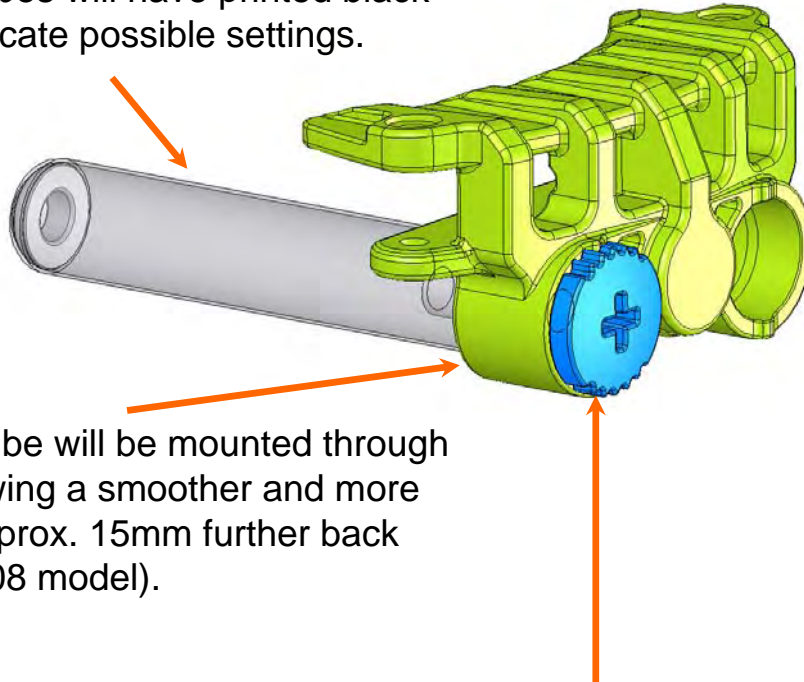
POWER TUBES/HOOK

www.rottefella.com



New solution for springs and adjustment:

All Power Tubes will have printed black scales to indicate possible settings.



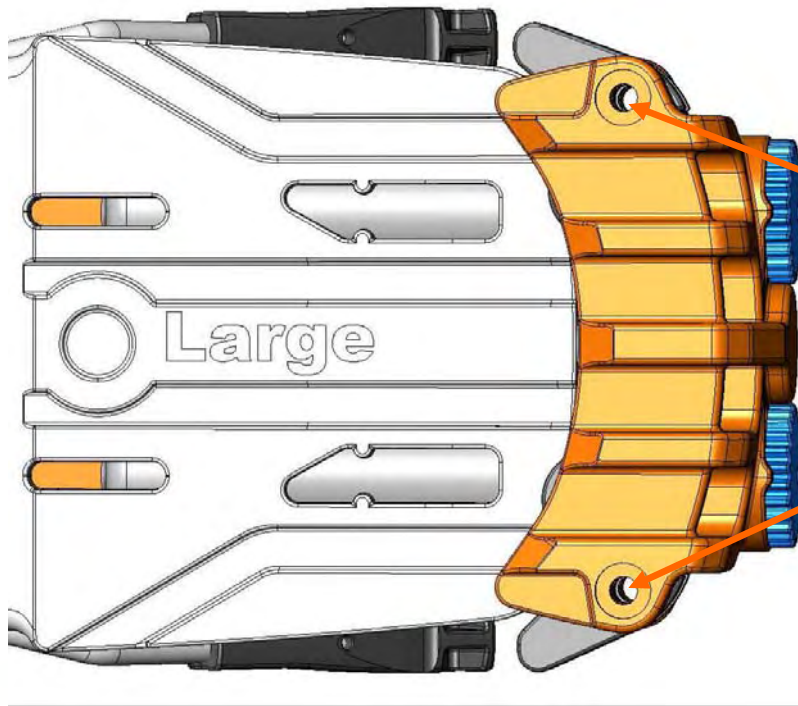
The Power Tube will be mounted through the hook allowing a smoother and more even flex. (Approx. 15mm further back than 2007/2008 model).

The Power Tube will be adjusted by a plastic "disc" on the back of the spring. By turning the disc, the skier will adjust the tension of the spring. The disc/Power Tube can be adjusted either by hand or with a screwdriver (pos 3). The plastic disc will also be the color indicator. (Blue disc equals blue spring).

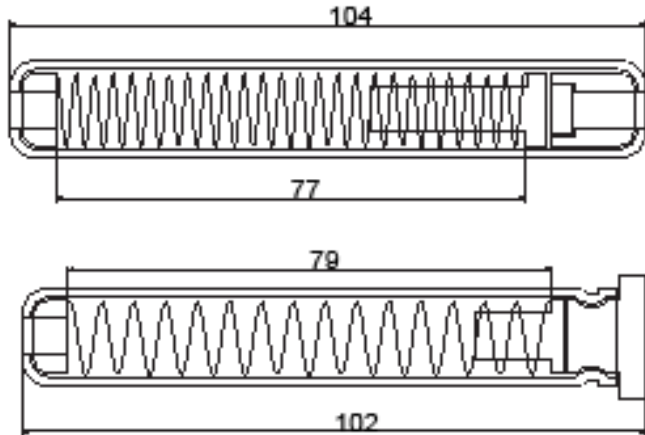




A tighter interface between hook and boot.



Tolerances have been refined so that the interface between boot and binding will fit 100%.



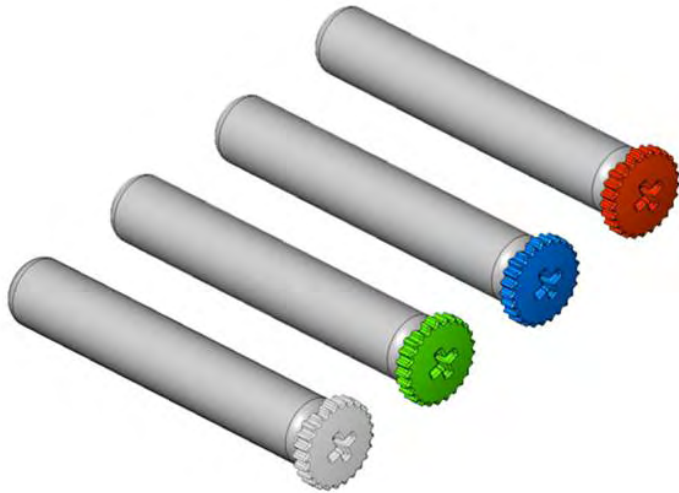
2007 Power Tube:

The 2007 Power tube has a different construction than the new 2008 model, thus limiting the movement of the spring and providing less power when engaged.

2008 Power Tube:

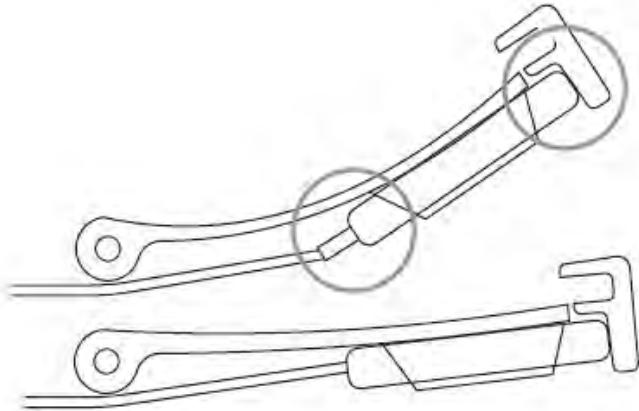
The redesigned Power Tube provides:

- easy to install
- better performance because of longer "work area"
- more power in the beginning of the flex
- smoother and more even flex in the boot and flex plate
- easier adjustment of flex resistance and release values
- better boot hold



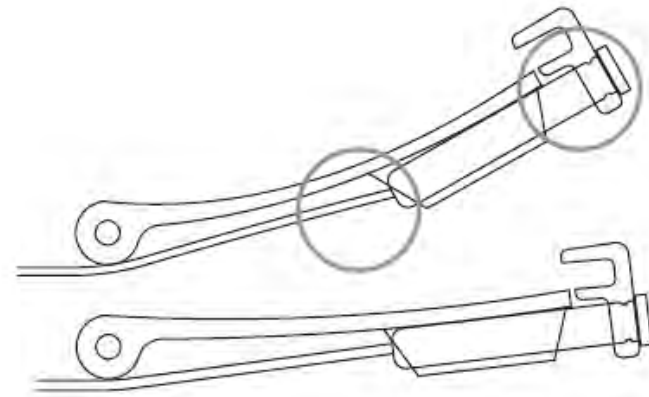


Power Tube, hook and flex plate 2008-2009



2007-2008 binding:

The position of the Power Tube is in front of the hook. When flexing the binding, the length of the Power Tube makes the cable work at an angle, creating a longer spring travel and increasing the risk to "bottom-out" in extreme situations.



2008-2009 binding:

The position of the Power Tube is moved to the backside of the hook, mounted through the hook. The cable now works without an angle and the spring has less travel. The redesigned Power Tube will provide better and more even flex since the Power Tube is shorter, positioned further back, allows the cable to work smoother, and allows the flex plate to "bend" more naturally.



Powertube recommended selection and release adjustment:

<small>warning: ntn is not certified according to the ISO standard</small>	
1. Skier	Find weight and boot sizes/length
2. Powertubes	<p>Powertubes have 3 standard colours.</p> <p>White: extra soft Green: soft Blue: medium</p> <p>Rottefella recommend white/green for small boots(<41), and green/blue for large size(>41).</p> <p>Red: additional for skiers preferring hard springs.</p>
3. Settings	<p>Rottefella recommend dividing skiers into 3 groups:</p> <p>Beginner: Skies conservatively/low speed, 1 setting below Average: Skies moderately/variety of speed, setting as scale Expert: Skies aggressively/high speed, 1 settings up</p> <p>Note: Above 50 years: 1 setting below scale</p>
4. Adjustment:	Adjust the powertubes by turning it to the correct position, using the printed scale from 1-5, on the powertubes. (see technical manual).

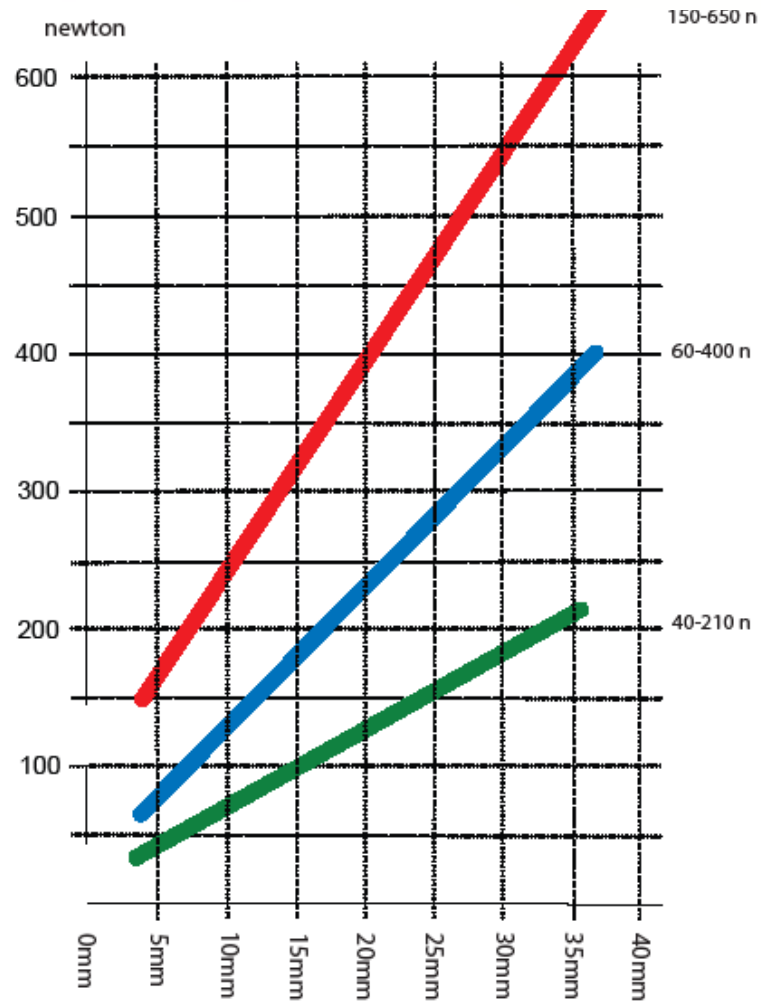
Recommended release settings: warning: setting should never be above recommended setting.

Kg/lbs	Boot size/length.			
	271-290 in mm 24,0-26,0 mondo 38-40,5 europe	291-310 in mm 26,5-28,0 mondo 41-43 europe	311-330 in mm 28,5-30,0 mondo 44-45,5 europe	331 in mm - 32,0 mondo - 46 europe -
36-41kg 79-91lbs	2	2 1	2 1	3 1
42-48kg 92-107lbs	2 1	3 1	3 1	3 2 1
49-57kg 108-125lbs	3 2 1	4 2 1	4 2 3	5 3 1
58-66kg 126-147lbs	4 2 1	5 3 1	5 3 1 1	5 4 2 1
67-78kg 148-174lbs	5 3 2 1	4 2 1	4 3 1	5 3 1
79-94kg 175-209lbs	4 3 2	5 3 2	5 3 2	5 4 2
95+ kg 210+ lbs	5 3 2	5 4 2	4 2	4 3



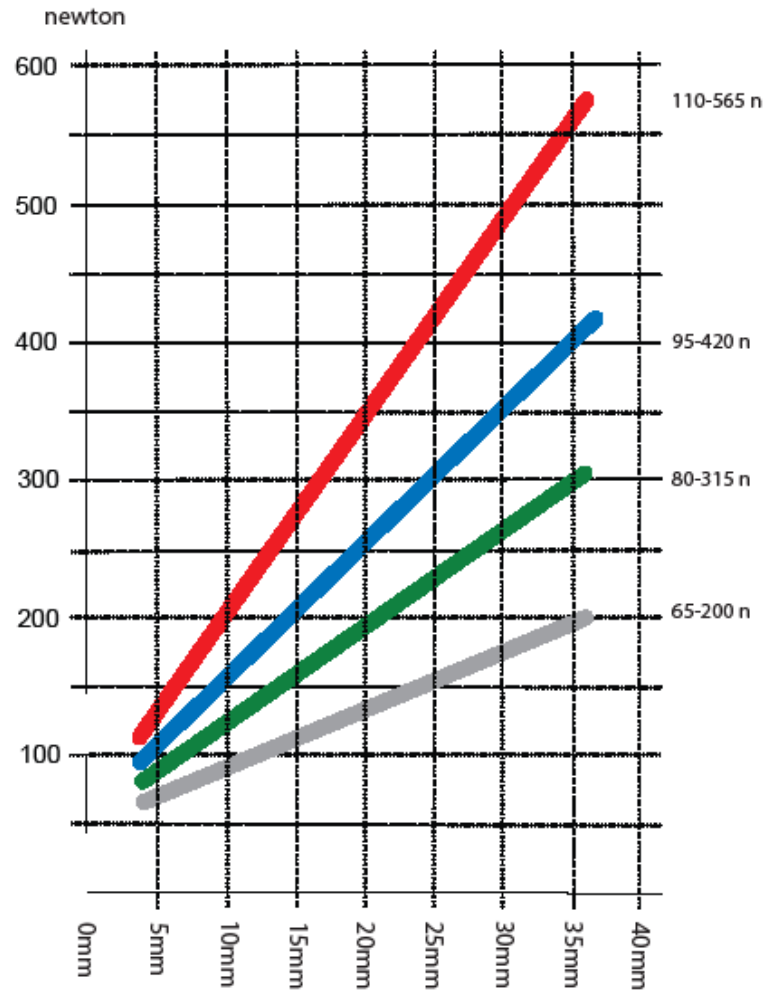


NTN Power Tubes 2007/2008





NTN Power Tubes 2008/2009





NTN 2007/2008 vs. 2008/2009

