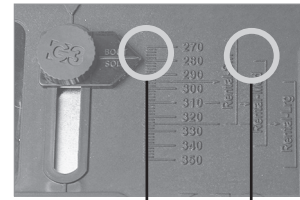


A



B



Size Indicator Rental Size Setting C

1. SETTING THE BOOT MOUNTING SIZE

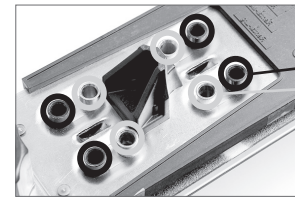
Note: This does not align the jig to the ski, instead it sets the boot to the jig.

REGULAR RETAIL VERSION

- Put the jig onto the ski (A). Do not worry about setting the jig in the correct location on the ski. This step comes later.
- Click the toe of the ski boot into the ION jig (B).
- Adjust the back end of the jig so that the heel of the boot sits on the ramp and touches the back of the boot (B).
- Lock the jig to the boot sole length (mm) by turning the size indicator knob clockwise (C).
- If the boot is unavailable but the sole length is known, set the jig length to match the boot sole length via the size indicator on the jig (C).

RENTAL / DEMO VERSION

- Set the jig to one of the rental sizing settings on the desired size range for the ski: (C)
 - Rental-Small (fits ~265-325mm boot sole lengths)
 - Rental-Medium (fits ~280-340mm boot sole lengths)
 - Rental-Large (fits ~295-355mm boot sole lengths)



D

Rental Holes
Regular Holes

2. DRILL SKIS USING ION JIG

REGULAR RETAIL VERSION

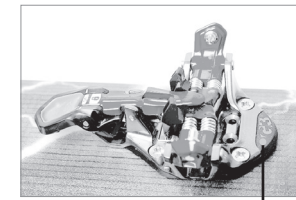
- Reposition the jig onto the ski and align the center mark of the ski with the center mark of the jig. For an off center mount (plus 1cm, minus 1cm, etc.) line up the desired mark on the ski with the center mark of the jig.
- Fix the jig into place and select the ski manufacturer's recommended drill bit size; either 3.5 mm, or 4.1 mm x 9mm. (G3 recommends 4.1 mm for skis with metal top sheets).
- Drill the toe mounting pattern.
- Select the regular (non-rental) heel mounting pattern (D) and drill the holes.
- Ensure all the holes are free of debris.

RENTAL / DEMO VERSION

- Remove the plugs from the jigs rental hole pattern. These are plugged by default.
- Reposition the jig on to the ski and align the center mark of the jig to the center mark of the ski.
- Fix the jig in place and drill holes using the ski manufacturer's recommended drill bit size; either 3.5 mm, or 4.1 mm x 9mm. (4.1 mm for skis with metal top sheet).
- Drill the toe mounting pattern.
- Select the rental heel mounting pattern (D) and drill the holes.
- Make sure all of the holes are free of wood debris.



Optional epoxy available E

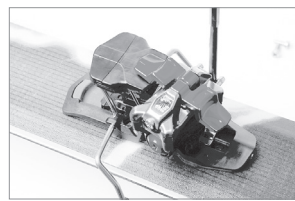


Toe Mounting Plate F

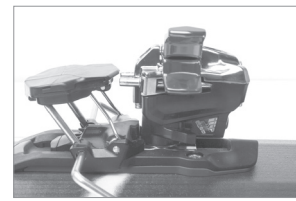
3. MOUNT TOE ASSEMBLY

- Completely fill drilled holes with waterproof adhesive.

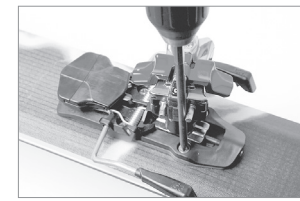
Note: Using a slow cure epoxy significantly increases the mounting strength and it is recommended if you are an aggressive or heavy skier, if you commonly carry a loaded pack or if you use wide skis.
- Ensure that the toe assembly is in step-in position (F).
- Position the toe mounting plate under the toe assembly (F). Refer to the exploded view on the front to distinguish the toe mounting plate (6) and the toe assembly (4).
- Install the toe mounting screws (1). Refer to the exploded view on the front to distinguish the screws.
- Do not fully tighten screws until after step 5.



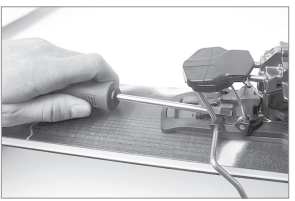
G



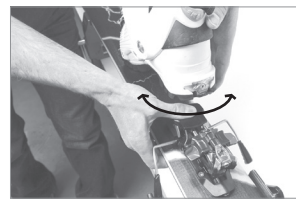
H



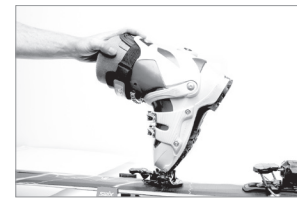
I



J



K



L

4. MOUNTING BINDINGS ONTO THE SKI (HEEL ASSEMBLY)

Note: Do not adjust the length of the binding until the two front heel screws are fully tightened down.

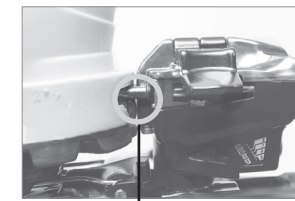
- Install the heel assembly (7) on to the ski using the heel mounting screws (2). When mounting a rental/demo version use the rental heel mounting screws (3). Refer to the exploded view on the front of this document to distinguish toe and heel mounting screws.
- Start with the binding rotated into touring mode shown in (G) and install the rear screw that is accessible between the two heel pins. Torque the screw to 4 Nm.
- Change the binding to ski mode for access to the 2 front screws (H) Install screws and torque to 4 Nm.
- Change mode back to touring mode in the opposite direction of step b to access the last screw (I). Torque to 4 Nm.

INSTALL BRAKE SPRING COVER

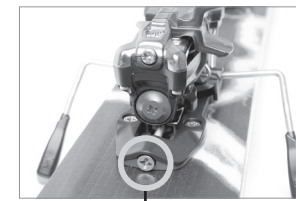
- Rotate the heel assembly (7) into ski mode.
- Install the brake spring cover (5) as shown in (J). Hook the rear tabs around the spring first, then press down firmly on both sides. If you have trouble using your hands you can use a round object (J) such as a screw driver.

5. ALIGN THE TOE ASSEMBLY

- Insert the boot toe into the toe of the binding, but do not fully tighten the screws yet (K). Ensure that the heel assembly (7) of the binding is oriented in ski mode.
- Check the alignment of the heel of the boot with the binding heel (L). If the boot's heel insert is not coming down centered between the heel pins, then lock the toe in tour mode, and torque the boot to the left or right to properly align the boot with the pins.
- Once the heel of the boot and the pins of the binding are aligned properly, carefully remove the boot and torque the toe mounting screws (1) to 4 Nm.



Contact Point M



Length Adjustment Screw N

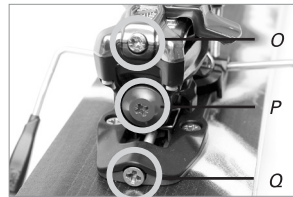
6. SIZE ADJUSTMENT

- Install the ski boot into the binding with the heel positioned in ski mode.

Note: Ensure the next step occurs without weight on the binding. Ideally this step is done on the work bench. In a demo situation have the customer unweight their heel while the ski tech is adjusting the boot sole length.
- Starting with a gap between the binding and the boot, slowly bring the binding just into contact with the boot by adjusting the length adjustment screw (N). (see image above for contact point and location of length adjustment screw).

WARNING!

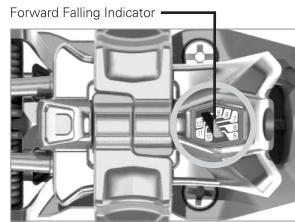
It is VERY IMPORTANT not to over tighten the gap. As a check, loosen the length adjustment screw very slightly. That adjustment should open the gap. Then, remember to re-adjust the heel of the binding after checking the gap.



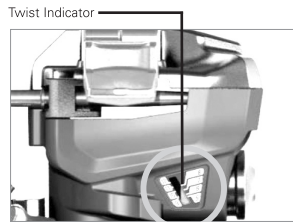
O Forward Falling (My)

P Lateral Twisting (Mz)

Q Boot Length Adjustment



Forward Falling Indicator Window (My)



Twist Indicator Window (Mz)

7. RELEASE VALUE ADJUSTMENT

- The G3 ION binding has two release modes: lateral twisting (Mz), and forward falling (My). Choose an appropriate value using the selection values chart provided in table 2. (In accordance with ISO 11088/ASTM F939).
- Adjust the front edge of the release setting indicator to the Release Values that get determined by following the procedure outlines in Section 8.

Note: Turn adjuster clock-wise to increase release setting, and counter clock-wise to decrease setting.

8. SELECTION OF RELEASE SETTING VALUES (ISO 11088 /ASTM F939)

Determination of skier type:

- It is the responsibility of the skier to determine his/her skier-type classification as defined in table 1.
- Skiers 10 years of age or older, or any type who desire a higher or lower setting than the setting of their skier type according to table 1, may do so in the following cases: Skiers who have satisfactory experience with lower settings regarding these recommendations may request a setting based on their experience.
- Skiers who have satisfactory experience without inadvertent releases may request a setting up to 15% lower than that recommended in table 2.
- Skiers having certain characteristics, such as neutral skiing technique, defensive attitude, high degree of control, etc. may request a setting of 15% lower than that recommended in table 2.

- Skiers who have experienced inadvertent releases may request a setting up to 15% higher than that recommended in table 2.
- Skiers may request settings that are different for lateral twist and forward lean.

Selection of release settings:

- Locate the skier's weight (mass) and height in the appropriate column in table 2. If the weight and height are not on the same line, select the line closest to the top of the table. Adjustment for skier type (see table 1): For a Type 1 skier, stay on the same line and use that skier code. For a Type 2 skier, move down the table one skier code. For a Type 3 skier, move down the table two skier codes. If the skier is age 9 and younger, or 50 and older, move up the table one skier code.

Release value determination

- Locate the release value at the intersection of the skier code row and the appropriate boot sole length. If there is a blank box, move left or right to the in the same row to the next value.
- The ION binding has release values from 5 to 12 only.

Note: that release values selected using this practice may not be appropriate for circumstances in which: the skier carries an object that significantly increases the skier's effective body weight, the skier grasps or in some manner controls an object such as a sled, or the skier encounters exceptional snow or terrain conditions not commonly found on developed ski slopes.

Release torque values outside the recommendations of this practice may increase the risk of injury to the skier. However, skiers who are informed of this potential risk may request such settings and have them provided, subject to the guidelines and limitations specified in this document.

These values refer to recommended release torque for initial adjustment of a ski binding and subsequent readjustment of the binding during routine maintenance or following a suspected malfunction. However, these values are not intended to apply to the condition of the equipment at any time after it is put into use.

TYPE 1	TYPE 2	TYPE 3
Cautious skiing on smooth slopes of gentle to moderate pitch. Skiers who designate themselves as Type 1 receive lower than average release settings. This corresponds to an increased risk of inadvertent binding release in a fall. This type also applies to entry level skiers uncertain of their skill level.	Skiers who designate themselves as Type 2 receive average release settings appropriate for most recreational skiing.	Fast skiing on slopes of moderate to steep pitch. Skiers who designate themselves as Type 3 receive higher than average release settings. This corresponds to decreased capacity for release in a fall, in order to gain a decreased risk of inadvertent binding release.

TABLE 1: DETERMINATION OF SKIER-TYPE CLASSIFICATION

9. CHECKS AND FUNCTIONAL TESTS

Upon completing installation and setting of the binding, the following inspection and functional checks should be performed:

- Boot center mark is aligned with the ski center mark.
- Install a boot in the binding, and check that the binding heel pins are aligned with the boot insert.
- Check heel location by checking the gap between boot and binding.
- Check that both lateral twisting (Mz), and forward falling (My) adjustments on each binding are set to the correct value.
- Check the lateral release travel by hitting the heel of the boot to displace it several mm and ensure that the binding returns to center quickly and smoothly.
- Verify release values with a binding test device. Follow the manufacturer's instructions for Tech-pin type insert compatible bindings.

10. TROUBLESHOOTING

If the lateral release (Mz) is not symmetrical, check the following:

- Are boot inserts worn?
- Toe piece alignment with the heel. Check by installing boot in toe and confirm toe and heel pins align with tech inserts.
- Dirt contamination or excessive wear of binding components, in particular the toe pins or heel.

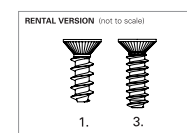
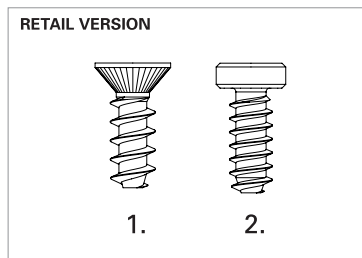
TABLE 2: RELEASE VALUE SELECTION USING SKIER'S WEIGHT:

Skier's Parameters					Initial Indicator Value, Z (Presetting), depending on boot sole length						Inspection Parameters	
Skier's Mass (kg)	Skier's Height (m)	Skier's Mass (lbs)	Skier's Height (ft in)	Skier's Code	<250m m	251 mm to 270 mm	271 mm to 290 mm	291 mm to 310 mm	311 mm to 330 mm	>331 mm	Lateral Twist (Mz) Nm	Forward Lean My Nm
10 to 13		22 to 29		A	0.75	0.75					5	18
14 to 17		30 to 38		B	1	1	0.75				8	29
18 to 21		39 to 47		C	1.5	1.25	1				11	40
22 to 25		48 to 55		D	1.75	1.5	1.5	1.25			14	52
26 to 30		56 to 66		E	2.25	2	1.75	1.5	1.5		17	64
31 to 35		67 to 78		F	2.75	2.5	2.25	2	1.75	1.75	20	75
36 to 41		79 to 91		G	3.5	3	2.75	2.5	2.25	2	23	87
42 to 48	< 1.5	92 to 107	< 4'10"	H		3.5	3	3	2.75	2.5	27	102
49 to 57	1.5 to 1.6	108 to 126	4'11" to 5'2"	I		4.5	4	3.5	3.5	3	31	120
58 to 66	1.6 to 1.7	127 to 146	5'2" to 5'5"	J		5.5	5	4.5	4	3.5	37	141
67 to 78	1.7 to 1.8	147 to 172	5'6" to 5'10"	K		6.5	6	5.5	5	4.5	43	165
79 to 94	1.8 to 1.9	173 to 208	5'11" to 6'4"	L		7.5	7	6.5	6	5.5	50	194
95 <	2 <	209 <	6.5" <	M			8.5	8	7	6.5	58	229
				N			10	9.5	8.5	8	67	271
				O			11.5	11	10	9.5	78	320
				P							91	380
											105	452
											118	540

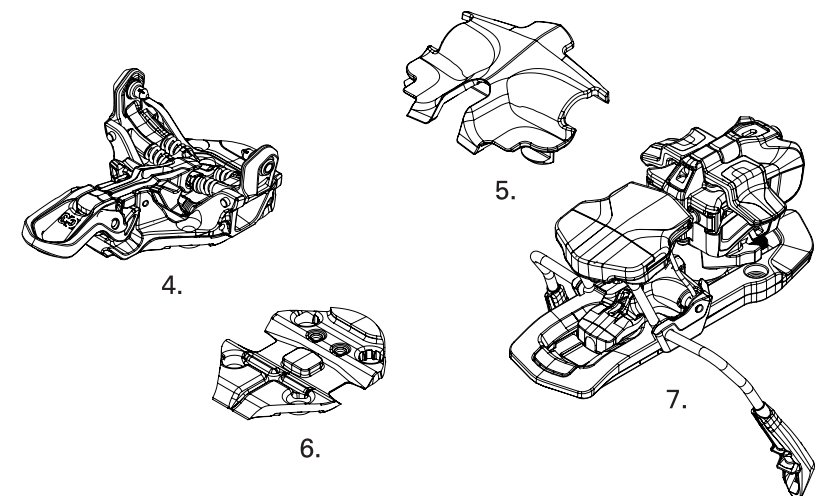
MOUNTING INSTRUCTIONS



5-12



- Toe Mounting Screw
- Heel Mounting Screw Retail Version
- Heel Mounting Screw Rental / Demo Version
- Toe Assembly
- Brake Spring Cover
- Toe Mounting Plate
- Heel Assembly



Note: Exploded view will be referenced throughout this document. For example, 'Use the toe mounting screws (1).'

fig 1

About G3 ION Binding

- The installation of the binding should only be performed by an authorized G3 dealer.
- The G3 ION bindings are compatible only with alpine touring ski boots (ISO 9523) with TECH compatible inserts.
- Bellowed touring boots or NTN type boots with TECH inserts are not currently supported; the flex creates an unpredictable release environment.

WARNING!

Using a bellowed boot with the G3 ION binding will affect the safety release of the boot from the binding. G3 cannot guarantee the release settings of the binding when used with these boots.

For the most current information, videos and instructions on mounting and using your ION bindings go to <http://www.genuineguidegear.com>.

For full G3 product warranty details please visit: <http://www.genuineguidegear.com/service/g3-product-warranty>.

