

**SYSTEM
SET-UP AND
USE**



CONTENTS

Congratulations on your new ski~mojo it should provide you with many years of skiing enjoyment:-

- 1.** Two temporary Clamp-On Ball-Studs (for initial set-up and use with rental boots) 
- 2.** Harness with elastic groin straps 
- 3.** Two Neoprene Knee-Supports (Left & Right) with the mojo hinges in them 
- 4.** A 2.5mm Allen Key (Hex Wrench) – The tool kit! 
- 5.** Four Rod Blockers (recommended but optional) 
- 6.** Two Ball-Studs with screws and washers (for permanent fitting to your own ski boots) 
- 7.** Additional Complementary Item - Elastic Belt (for people who spend a lot of time without their ski boots on) 

INSTALLATION GUIDE

QUICK FITTING INSTRUCTIONS

1. Put the Clamp-on Ball-studs on to your ski boots:-

a) Hook the attachment on to the back of your ski boot. The edge of the clamp should be 20mm from the centre of your ski boot - towards the outside of the boot. (You can use the other clamp which is 20mm wide as a guide).



b) Turn the locking disc a fraction Clockwise to unlock.



c) Do up the screw with the Allen Key, (while holding the locking disc), until it is gripping firmly



d) With the Allen key still in the screw; Turn the locking disc Anti-Clockwise to lock.



Locking disc

2. Put on Harness (and adjust if necessary)

a) With the elastic straps at the bottom of the main strap, step into the loops of the harness.



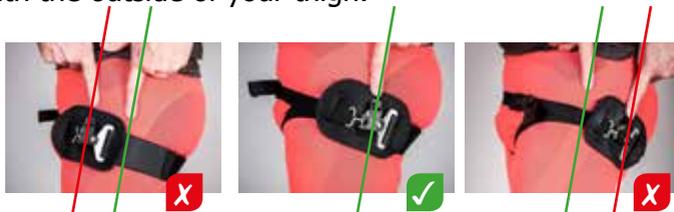
b) Pull the Harness up so that the main strap is UNDER you backside.



c) Do up the buckle and pull the elastic ends to achieve a snug fit.



d) Check the position of the Harness connectors – the hole at the bottom should be in line with the outside of your thigh.

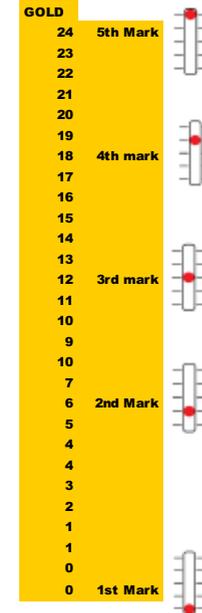


e) If the Harness connectors need to be moved – peel off the Velcro with the harness clip and protective pad, then re-position in the correct place (there are lines of red stitching every 5cm as a guide).



DO NOT SKIP THIS STEP!

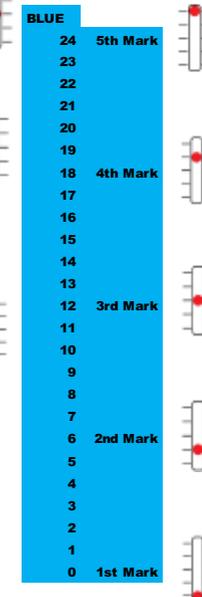
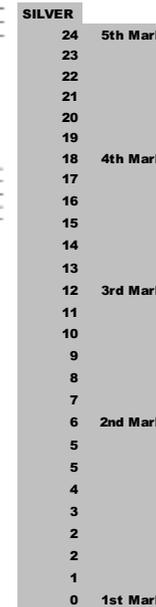
KG	Lb	Stone
123	271	19St 5lb
121	267	19St 1lb
119	262	18St 10lb
117	258	18St 6lb
115	254	18St 2lb
113	249	17St 11lb
111	245	17St 7lb
109	240	17St 2lb
107	236	16St 12lb
105	231	16St 7lb
103	227	16St 3lb
101	223	15St 13lb
99	218	15St 8lb
97	214	15St 4lb
95	209	14St 13lb
93	205	14St 9lb
91	201	14St 5lb
89	196	14St
87	192	13St 10lb
85	187	13St 5lb
84	185	13St 3lb
83	183	13St 1lb
81	179	12St 11lb
80	176	12St 8lb
78	172	12St 4lb
77	170	12St 2lb
76	168	12St
75	165	11St 11lb
73	161	11St 7lb
72	159	11St 5lb
71	157	11St 3lb
70	154	11St
68	150	10St 10lb
67	148	10St 8lb
66	146	10St 6lb
65	143	10St 3lb
64	141	10St 1lb
63	139	9St 13lb
62	137	9St 11lb
61	134	9St 8lb
60	132	9St 6lb
59	130	9St 4lb
58	128	9St 2lb
57	126	9St
56	123	8St 11lb
55	121	8St 9lb
54	118	8St 6lb
53	117	8St 5lb
52	115	8St 3lb
51	112	8St
50	109	7St 11lb
49	108	7St 10lb
48	106	7St 8lb
47	104	7St 6lb
46	101	7St 3lb
45	99	7St 1lb
44	98	7St



3. Set the mojos to your weight (Left & Right)

WEIGHT AND COMPRESSION CHART

a) Look your weight up on the chart and establish how many movements you need to turn the adjuster
 Gold Spring = Black Switch,
 Silver Spring = Grey Switch,
 Blue Spring = Red Switch.



b) Pull the Neoprene to one side to expose the Power Adjuster and Indicator.

Spring

Indicator pin

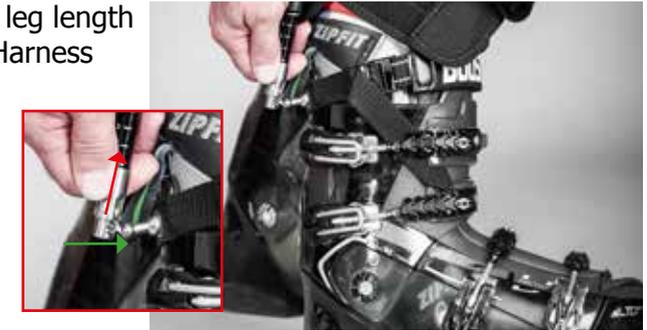
Barrel Adjuster



c) Insert the end of the Allen key in to the hole on the right of the two visible holes in the Barrel Adjuster (when looking at it with the "Spring Adjuster Indicator Slot" above it) and using the Allen key as a lever (do not turn the Allen key - it won't do anything). Rotate the Power Adjuster until the hole on the right (that the Allen key is in) is now the hole on the left. Take the Allen key out of the hole and repeat as many times as indicated on the chart.



4. Set the mojos to your leg length - with ski boots and Harness on (Left & Right)



- ▲ a) Slide up the sleeve on the end of the lower telescopic rod to expose the socket.
- ▶ b) Place the socket on to the ball stud on the boot and release the sleeve.
- c) Undo (open) the clamp holding the lower Telescopic rod.
- ▲ d) Slide the pivot of the mojo up until it is alongside your knee and then close (do-up) the clamp.



- ◀ e) Do up the Velcro shin-strap as tightly as is comfortably possible. Do up the thigh strap.

- f) Undo (open) the clamp holding the upper Telescopic rod



- g) Slide the top of the telescopic rod into the hole in the bottom of the Harness connector and close (do-up) the clamp. The rod clicks into the Harness connector – to release it - press the small brass button.

- h) Set the telescopic rods of the other mojo to the same settings and then put it on.



***Congratulations -
You have completed the fitting!***

Just a quick test before you go skiing.....

(Not required with snowboard boots)
To switch on (engage) the mojos push the switches down - then straighten your legs.

To switch off (dis-engage) the mojos flip the switches up - then straighten your legs.



With the mojos engaged; flex your knees to around 45 degrees (you may want to hold on to a chair or table for balance) then lift the toes of your ski boots a fraction off the ground so that you are balanced on your heels. If you do not feel your feet being turned in or turned out – fitting is complete.



However, if your feet turn-out when doing this test you will need to move the Clamp-on boot fittings a little further towards the outside of your boots. If your feet turn-in when doing this test you will need to move the Clamp-on boot fittings a little further towards the centre of your boots.

ROD BLOCKERS

We also recommend that you use the 4 Rod blockers to remove the possibility of the telescopic rods moving while you are skiing.

- Lock the two flanged nuts on the threaded rod together (hand tight is sufficient) at the desired position.



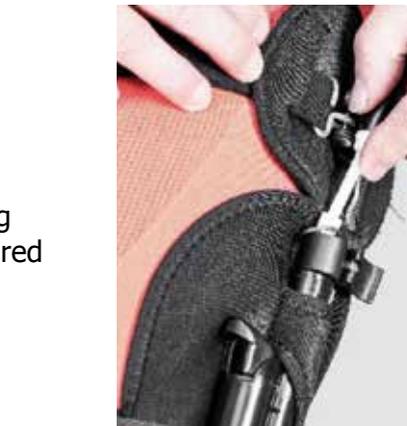
- Undo the telescopic rod cam-clamp.



- Slide out the telescopic rod.



- Slide the rod blocker into the open end of the telescopic rod.



- Re-insert the telescopic rod with the rod blocker inside it.

If necessary, Re-position the two locking nuts so the rods are blocked at the desired length.

BOOT STUDS

If you have your own ski boots we strongly recommend that you fit ball studs directly on to your ski boots rather than using the clamps. (Unless you have prominent calf muscles – see "hacks" section).

Using the mark left by the clamp as a guide make a 4mm hole in your ski boot. The actual hole can be above or below the mark if that is a more suitable place to make the hole.



For the vast majority of ski boots that have two fixings holding the power strap in place, the outside fixing is usually in the ideal place.

If you use a higher or lower fitting point – remember to adjust the length of your telescopic rods (and rod blockers) by the corresponding amount.

Once you are happy with the settings – we recommend that you make a note of them on the back of this booklet.

With a washer on the M4 machine screw push it through the hole from the inside of your ski boot.

Put another washer on to the protruding thread and then the ball stud. Tighten the ball stud using the Allen (hex) Key and a 10mm spanner (or pliers or grips).



SNOW BOARDING

If you are using your ski~mojo for snowboarding you may need to stiffen the boots to accept the temporary boot-clamps or the bolt-on studs.

We recommend using a piece of curved plastic such as guttering or drain pipe cut to approx . 100mm square with a 4mm hole drilled in the middle (see sample alongside) and sliding this between the inner and outer of the boot.

As there is no issue with the rotation of the feet (they are both clamped to the snowboard) the positioning on the boot is not as important as for skiing. However, you need to ensure that the fitting does not interfere with the snowboard bindings.



DAY-TO-DAY USE

We strongly recommend that the ski~mojo is worn underneath your ski wear as this removes the risk of snow getting into the mechanism causing the switches not to work. It also looks better...

Putting your ski~mojo on.
Step-In, Strap-On, Snap-In, Ski-Off...



Normal ski pants:-

1. Step into the Harness pull up into position and do up the buckle
2. Snap in the mojos into the Harness Clips (if not already attached)
3. Strap on the mojos (shin strap as tight as you comfortably can)
4. Slide into your ski wear (making sure lower rods don't snag on anything)
5. Step into your ski Boots and attach the mojos

Full side-zip ski pants:-

1. Step into the Harness and put on (with or without the belt attached) and do up buckle
2. Slide into your ski wear
3. Step into your ski Boots
6. Slide the side zips open
7. Snap the mojos in to the harness and onto the ski boots)
8. Strap on the mojos (shin strap as tight as you comfortably can)
9. Slide the side zips closed

When you have your skis off, your mojos should be switched off.
When you have your skis on, your mojos should be switched on.



The exceptions are:
when riding a chairlift
and when side stepping uphill

The switches are large enough that they are easy to access through your skiwear, even with ski gloves on.

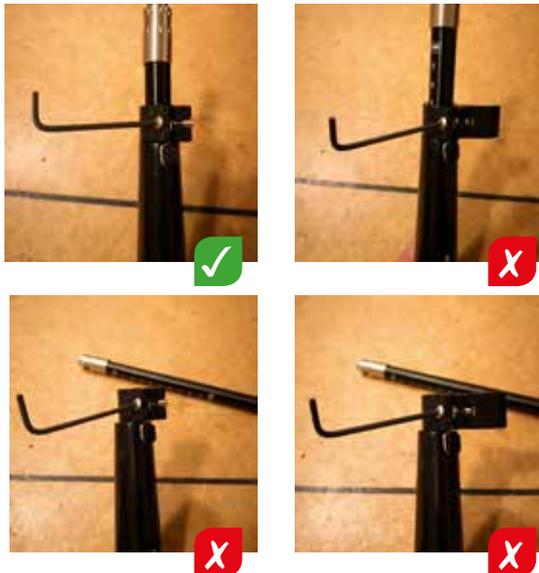
If you forget to switch off before getting on a chair lift (you will – we all do) don't panic! Simply switch off and swing your legs up to straighten and disengage.

When using the WC you may only need to undo the buckle at the front of the harness or you may also need to disconnect the mojos from the Harness Clips by pressing the brass release buttons so that you can disconnect the harness from the mojos and lower it.

A good habit to get into...

Check your boot studs every time you go skiing to make sure that they haven't worked loose.

Check your telescopic clamps every time you go skiing to make sure that the screws holding them haven't worked loose. You can tighten the screws with the allen key **but you should only ever tighten the clamp screws when the clamps are in the closed (locked) position, with the telescopic rod in place.** If you tighten them with the clamp open or without the telescopic rod in place, they are likely to break.



"SUSPENDER" BELT

The harness clips have a slot and a hole in them so that you can hold up your ski~mojo when you are not wearing ski boots. There are many ways that this can be done, we provide a complimentary belt as an easy first option.

You do not need to hold your ski~mojo up, when you have ski boots on. However for some people the additional support is helpful. You would normally only need to hold your ski~mojo up if you spend a lot of time with your ski boots off and your mojo on - as it may start to slide down your legs when not supported by your ski boots.

To use the belt, put it around your waist with the suspender straps hanging down and adjust the length to suit.



Undo the webbing Ladder-lock, then feed the free end of the strap through the slot in the Harness Clip and then re-feed it through the ladder lock. Adjust to the desired length and then feed the free end through the ladder lock again to prevent slipping. Once you have done both sides, Velcro the two ends of the elastic at the back of the belt on to the Posture-Strap of your Harness.

HACKS

- Always fold the Velcro ends of the straps back on to the Neoprene whenever you undo the straps – to prevent the Velcro catching on other items.
- The thigh straps are attached with Velcro so you can re-position or completely remove them. With the thigh straps removed it may not be quite as easy to engage the mojos just by straightening your legs.
- To make the Harness easier to put on and take off, you can remove the Neoprene strip on the Posture-Strap (the wide strap under your backside) and Velcro the strap directly on to Velcro receptive shorts or base-layer. You may then want to also remove the elastic groin straps, which are also attached with Velcro.
- If you are finding it difficult to straighten the mojo to engage simply by straightening your legs...
 - Gently push the hinges at your knees back until the mojos engage.
 - Or pull the harness clips up until the mojos engage (using the optional belt can help with this).
 - OR it may be that the set-up is not quite right and you should lengthen the Posture Straps.
 - Or it may be that you physically cannot straighten your leg sufficiently – in which case you can change the angle at which the mojos engage. To do this:- take the mojo out of the Neoprene knee-support peel the gold or silver label from the nut on the end of the cable, adjust the nut to create the desired change in engagement angle, then use some new tape or sticker to hold the nut in the new position.
- Use the boot clamps instead of the permanent studs, if you have big calves or pack off with washers.
- If it's in the way and too soft to support the boot clamp or stud– remove any boot spoiler to do the fitting (you can probably re-attach the spoiler afterwards).
- The outside hole/fixing for power strap is usually in the ideal position. – There is often a recess moulded on the inside of the shell of the boot in this position even if there is no actual fixing there.... So it is a good idea to look at the inside of the shell before drilling from the outside.
- Best to remove the liner from your ski boot before drilling.
- Fitting is best done wearing a base layer or leggings.
- WC –undo buckle across front of harness (and buckle on belt if being used) press brass release buttons on harness clips and lift off upper rods so that you can lower the harness.
- The switches are sometimes difficult to engage/disengage while sat down as the material of your ski wear is pulled taught so if you want to engage the ski~mojos before getting off a chair lift, it is best to flip the switches (with your legs bent) before you sit down.
- Full side-zip ski pants enable easier access (should you ever need to make adjustments while out skiing) and easier putting on/taking off of your ski~mojo.
- The screws for the permanent boot studs are supplied coated with a vibration resistant coating – not a full “locking” coating. If you want to “lock” the studs on you should put some stud-locking adhesive or super-glue onto the screw thread. But you may not then be able to undo the stud in the future.
- If you cannot remove a stud from a boot, you can drill out the screw head with a drill bit suitable for stainless steel (you will then need to buy a replacement stud and screw).

BARE UNIT

The only mechanical part on your ski~mojo which is likely to wear out is the cable. The cables are similar to the tyres on a car – you expect the car to last for hundreds of thousands of miles, but you would expect to replace the tyres a few times.

The cables should last most recreational skiers their skiing lifetime and should last a professional, skiing all day every day of the season around two seasons. However this can vary with weight setting, style of skiing. Also cables can occasionally fail early, (like having a puncture) usually due to a piece of debris getting between the strands of the cable (once one strand fails total failure is inevitable).

We will normally replace any cable that has failed as a result of wear and tear free of charge irrespective of the warranty period. We also replace cables on a precautionary basis for a small fee.

One thing you can do to avoid being left stranded when a cable fails is to carry a spare “bare unit”, this is like having a spare wheel on a car. You can change the Bare unit for the one with the failed cable fairly easily yourself and then send the unit with the failed cable to us to have the cable replaced (if one cable fails we usually replace both as they will both have been subjected to the same level of use).

Bare units are available to purchase from our website as are other replacement/spare parts. www.skimojo.com

Name:

SPRING GOLD/SILVER (Delete as appropriate)	POWER SETTING Number of movements OR indicator position
Posture strap Setting (mark positions of ends of Velcro)	(mark position)
LENGTH SETTINGS Upper Telescopic Rod set at cm Lower Telescopic Rod set at cm	

Warranty
 Kinetic Innovations Limited warrants your product to be free from defects in material and workmanship for a period of one year from the original date of purchase. If you discover a defect in a product covered by this warranty, we will repair at our option using new or refurbished components, or if repair is not possible, replace the item.

Exclusions
 This warranty covers defects in manufacturing discovered while using the product as recommended by the manufacturer. The warranty does not cover loss or theft, nor does coverage extend to damage caused by misuse, abuse, unauthorized modification, improper storage conditions, lightning, or natural disasters. The warranty does not cover packaging, complimentary items, or parts that are subject to normal wear and tear replacement requirements.

Limits of Liability
 Should the product fail, your sole recourse shall be repair or replacement, as described in the preceding paragraphs. We will not be held liable to you or any other party for any damages or injury that result from the failure of this product. Damages excluded include, but are not limited to, the following; lost profits, lost savings, lost data, damage to other equipment or persons, and incidental or consequential damages arising from the use, or inability to use this product. In no event will Kinetic Innovations Limited be liable for more than the amount of your purchase price, not to exceed the current list price of the product, and excluding tax, shipping and handling charges. Kinetic Innovations Limited disclaims any other warranties, express or implied.
 By installing or using the product, the user accepts all terms described herein.

HOW TO OBTAIN SERVICE UNDER THIS WARRANTY

Contact us using one of the following methods:
 In writing to: Kinetic Innovations Limited
 Faygate Cottage, Wimlands Lane,
 Faygate, Horsham,
 West Sussex RH12 4SP
 By e-mail to: info@skimojo.com
 Tel: 0044 7786 753267

Return shipping costs to be paid for by Kinetic Innovations Limited. The cost of shipping to Kinetic Innovations Limited, or an authorised repair centre or payment of any Customs clearance fees or duties are the responsibility of the user.



Phil in Steamboat Springs.

**HAPPY
CUSTOMERS USING
ski~mojo**



Manuel in Baqueira Beret.