

Hardwire CRB, Womens' Hardwire CRB and Hardwire 3-Pin CRB Instructions

Part #s 608-22, 608-60, 608-27



Parts List:

- 2 CRB Toepieces
- 2 Complete Hardwire Heel Assemblies
- 2 V-Tech Release Risers
- 4 Riser Plugs
- 1 Mounting Spacer/ Hex Key for Release Barrel
- 1 Grease Packet
- 2 LP Climbing Heels
- 2 2mm LP Heel Spacers
- 4 Heel Pad Plugs
- 12 3/4" (19mm) screws
- 1 Paper mounting template
- 1 Service Instructions and Release Settings



NEW!

- V-tech release riser. All hardware pre-mounted.
- Industry standard 4-hole pattern. Matches Voile and K2 ski insert pattern.
- More consistent retention/release.
- Easier entry after on-snow release.
- Our independent tests indicate release values consistent with DIN.

Attention!! Follow directions carefully!!

Before mounting binding, install Hardwire Heel Assembly to toe-piece. Also, to make certain you have correct size Hardwire, place boot in toe-piece and adjust assembly to fit.

Voile recommends an authorized dealer for all binding mounts.

Hardwire Hook Installation

Very Important!! Hooks must be installed from the top!! If installed from the bottom you may risk losing the Hardwire Assembly during transport!!

Install the Hardwire Heel Assembly to the binding toe-piece before the toe-piece is mounted to the riser.(See Figure 1) When the heel assembly is installed from the top this will ensure absolute security of the heel assembly. The hooks can not be removed unless toe-piece is removed from riser or you must completely unthread the cartridges from the hook/rod.

Align the heel assembly perpendicular to the toe-piece and pull down to attach assembly to toe-piece. The new hook and attachment point design make it much easier to install and the hook will pivot freely in the attachment point. Center the heel lever relative to the heel pad by adjusting the spin-able cartridges.

Sizing:

Correct adjustment of the heelpiece provides an audible snap when the lever is engaged. For most boots this means when the lever is not engaged it will rest about a 1/4 inch back from the boot heel. To change the length of the heel piece spin the spring cartridges. When the rods are at their maximum length a thread will appear.

The threads should not be exposed!!

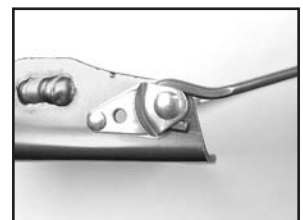
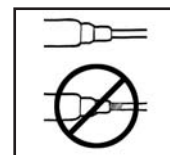


FIGURE 1

Checking the forward pressure:

After you initially fit your boots it is necessary to check the forward pressure of the heelpiece. Release the heel lever from the boot. Note a scribed mark at the edge of the plastic collar on the spring cartridge. (SEE FIGURE 2) Now engage the heel lever and check the distance from the mark to the black collar. The distance should be at least 1/8 inch and no more than 1/4 inch to insure optimal flex and retention. (SEE FIGURE 3) The forward pressure may need to be readjusted after your initial ski runs.

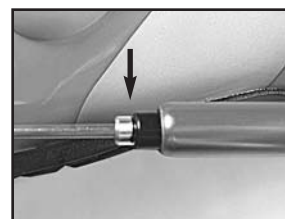


FIGURE 2



FIGURE 3

WOMENS	
HARDWIRE	MONDO POINT
SHORT	23 - 25.5
<small>Boot sizes are for a general guideline. Actual size may vary with each boot manufacturer. The Women's Hardwire uses a shorter U-shaped heel assembly to fit smallest boots.</small>	
MENS	
HARDWIRE	MONDO POINT
SHORT	24 - 26.5
STANDARD	27 - 31
<small>Boot sizes are for a general guideline. Actual size may vary with each boot manufacturer.</small>	

BRAKE SIZE - SKI WAIST	
ALPINE	68-80mm
X-WIDE	82-92mm
INSANE	100-112mm

Release Riser Mounting

Consult ski manufacturer for mounting position on all skis.

Use the Voile Hardwire Mounting Jig or the enclosed paper template and follow mounting instructions on back of paper template. Make sure the 3-Pin line is intersecting diamond shape on jig or template. Check drill bit depth before drilling especially for narrow profile skis. Always follow ski manufacturer guidelines. Check screw length to prevent “dimpling” the ski base and grind screws if necessary. In order to mount the binding with the ski brakes deployed, elevate the ski with a proper ski vise or simply use 2 blocks under the waist of the ski.

Loosen the lock-nut and adjustment screw to relieve release spring tension. Remove binding toe-piece from the V-tech release unit. All hardware is pre-mounted, leaving the technician only to mount the V-tech release unit to the ski via 4-hole pattern. Use 8-3/4” screws for mounting release unit. (See figure 4)

Press in riser plugs to 2 front holes of release unit. There will be a right and left release unit. The dent on the brake wire indicates the inside edge of the ski. Make sure the right and left binding toe-piece match the right and left release unit. (See figure 4)

Re-tension the release barrel to a setting of 1. Match the horizontal mark under the # 1 on the adjustment screw to the edge of the lock-nut. Screw the adjustment screw into place until locked. (See Release Setting Chart) Place the back part of the release plate at the semi-circle shaped friction pad at back of release unit. Snap the toe-piece into the release unit. You will notice a deeper slot under the friction pad that allows for a much easier re-entry of the toe-piece to the release unit. (See figure 5)

All hardware is factory mounted and the distance of the Barrel Housing relative to the Release Plate is factory set. Please double check this distance with included tool: Mounting Spacer/Hex Key for Release Barrel and Plate. (See figure 6)

The final release setting should be set by the end-user. Please refer to Service instructions and release settings chart. While no release binding including the Voile Release Binding can retain and release in all circumstances, our independent tests indicate the release values at settings recommended are consistent with DIN. Again the final setting is the decision of the end-user. For more aggressive skiers they may chose a higher setting.

After an on-snow release, place the back part of the release plate at the semi-circle shaped friction pad at back of release unit. With your boot still attached to the binding toe-piece, snap the toe-piece into the release unit. You will notice a deeper slot under the friction pad that allows for a much easier re-entry of the toe-piece to the release unit. (See figure 5)

Heel Pad Mounting

Refer to instructions on the back of the paper mounting template for heel pad mounting.

Insert the boot into toe-plate. Mount heel pad so the back of the heel pad is inside the boot heel 1/4”/6mm. (See Figure 7) Mark the location of the holes. Drill holes, check screw length and mount. Press in heel pad plugs.

TECH TIPS:

- 1.) Grease the contact points of the release unit and binding toe-piece. The contact points are located at release piston and friction pad on release unit.
- 2.) It is recommended that the end-user at the end of the ski season, should loosen the lock-nut and adjustment screw and relieve spring tension on the release unit. This will prolong the life of the spring and provide the most consistent release/retention.
- 3.) Voile recommends greasing the threads on the Hardwire rods at the end of each season to prevent any corrosion of the threads and thus maintain easy adjustment of the spring cartridges. For best results use an anti-seize type of grease.
- 4.) **If you are mounting to a K2 telemark ski with metal inserts, you must obtain part# 608-94 M5 x18mm screw pack from Voile. The screws provided with K2 telemark skis are too short to mount any Voile telemark bindings!!**
- 5.) Maximize backcountry touring efficiency with the Hardwire 3-pin, lock the heel lever to the heel pad and walk up on the 3-pin toe with much less effort. This benefit can be utilized on Hardwire brand telemark bindings for transporting your skis. (SEE FIGURE 8)
- 6.) Always make certain the Hardwire heel assembly is centered on the ski to maintain even pre-load of the spring cartridges. If the spring cartridges come out of adjustment, simply rotate to bring back to center and make sure to maintain adequate load on spring cartridges to maximize performance. (SEE FIGURE 9)



FIGURE 4



FIGURE 5

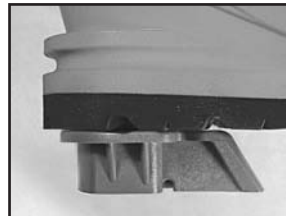


FIGURE 7



FIGURE 6



FIGURE 8



FIGURE 9

WARNING

Backcountry/Telemark skiing is a hazardous sport. The sport of telemark skiing and the use of this equipment involve a risk of injury to any and all parts of the body. The Voile release system **WILL NOT RELEASE OR RETAIN** in all circumstances. The use of the Voile release binding can not guarantee the user's safety or prevention from an injury or death while telemark skiing. The Voile release binding may reduce chances of injury, but they do not eliminate the risk of injuries to the knee or any other part of the body.

The user of this product is solely responsible for learning proper skiing techniques, avalanche awareness, and exercising good judgment. The manufacturer, distributor, wholesaler and retailer hereby expressly disclaim any liability for personal injuries sustained by use or misuse of this product.

The Voile Hardwire CRB Bindings are warranted by the manufacturer against any defects in materials or workmanship for a period of one year. Warranty service and replacement parts are available directly from Voile.



VOILE RELEASE BINDING

SERVICE INSTRUCTIONS AND RELEASE SETTINGS

WARNING

Telemark skiing is a hazardous sport. The sport of telemark skiing and the use of the equipment involve a risk of injury to any and all parts of the body. Voile Release Bindings **WILL NOT RELEASE AND RETAIN** in all circumstances. It is not possible to predict every situation in which they will or will not release or retain the skier. The use of the Voile Release Binding can not guarantee the user's safety or prevention from any injury or death while telemark skiing. The Voile Release Binding may reduce the chances of injury, but they do not eliminate the risk of injuries to the knee or any other part of the body.

The user of this product is solely responsible for learning proper skiing techniques, avalanche awareness, and exercising good judgment.

The manufacturer, distributor, wholesaler and retailer hereby expressly disclaim any liability for personal injuries sustained by use or misuse of this product.

SERVICE INSTRUCTIONS

Please follow these guidelines for maintenance of your binding in order to receive proper release and retention.

1. Remove snow and dirt from the contact points between your boots and binding parts before using the equipment.
2. Transporting your skis and bindings on top of car exposes these bindings to road salt and other contaminants. This exposure can have adverse effects on the function of the toe-piece release. Whenever possible transport inside a protective bag.
3. Store skis at room temperature after skiing so that any snow, ice, or moisture that has accumulated on the binding can evaporate rather than freeze into the working mechanism.
4. Use included binding grease where the release plate contacts the friction pad and piston of the release unit.

Each day before you use your Voile Release Binding check the following:

1. All components are securely attached to the ski.
2. There is not any missing or damaged parts.
3. There is not any snow, ice, or other contaminants in the Voile release mechanism.
4. Appropriate release/retention settings have been verified.

When adjusting your release setting align the edge of the plastic lock-nut with the horizontal mark under the release value #. Using the adjustment tool, screw the adjustment screw into place until locked. (see illustration)

Tip:

After an on-snow release, place the back part of the release plate at the semi-circle shaped friction pad at back of release unit. With your boot still attached to the binding toe-piece, snap the toe-piece into the release unit. You will notice a deeper slot under the friction pad that allows for a much easier re-entry of the toe-piece to the release unit.

THE FOLLOWING RELEASE SETTINGS ARE TO BE USED AS A GENERAL GUIDELINE ONLY. THE VOILE RELEASE BINDING IS NOT GUARANTEED TO RELEASE AT THE SETTINGS LISTED BELOW. THE SETTINGS ARE TO BE DETERMINED BY THE INDIVIDUAL USING THE VOILE RELEASE BINDING.

RELEASE SETTINGS WITH STANDARD RELEASE SPRING

SKIERS WEIGHT	NOVICE	INTER-MEDIATE	ADVANCED
100-110 lbs.	1	1.5	2.5
111-120	1	2	2.5
121-130	1.5	2	2.5
131-140	1.5	2.5	3
141-150	2	2.5	3
151-160	2	3	3.5
161-170	2.5	3	4
171-180	2.5	3	4.5
181-190	3	3.5	4.5
191-200	3	4	5

WITH COMP RELEASE SPRING

SKIERS WEIGHT	NOVICE	INTER-MEDIATE	ADVANCED
120-130 lbs.	1	1.5	2.5
131-140	1	2	2.5
141-150	1.5	2	2.5
151-160	1.5	2.5	3
161-170	2	2.5	3
171-180	2	3	3.5
181-190	2.5	3	4
191-200	2.5	3	4.5
201-220	3	3.5	4.5
221-230	3	4	5

WITH JUNIOR RELEASE SPRING

SKIERS WEIGHT	NOVICE	INTER-MEDIATE	ADVANCED
50-60 lbs.	1	1.5	2
61-70	1	2	2.5
71-80	1.5	2	3
81-90	1.5	3	4
91-100	2	3	4
101-110	2	3.5	4.5
111-120	2.5	4	4.5

1- Align the edge of the plastic lock-nut with the mark under the release value #. 2- Screw into place until locked.



Voilé Release Bindings are warranted by the manufacturer against any defects in materials or workmanship for a period of one year. Warranty service and replacement parts are available directly from Voilé.