

# SPARX

## SKATE SHARPENER 3



### OPERATING MANUAL



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# SAFETY

## SAFETY PRECAUTIONS

1. Before operating the Sparx™ Skate Sharpener, you should familiarize yourself with the product and read and understand all applicable instructions and warnings in this manual.
2. Use personal protective equipment. Always wear eye protection and a dust mask while operating the sharpener.
3. For emergencies: press the  **Cancel Button** two times. This will stop the **Grinding Ring** in its place. Do not stop the **Grinding Ring** unless it is an emergency, as this may damage the skate blade.
4. We do not recommend that children under 13 years of age be permitted to use the Sparx™ Skate Sharpener.
5. The Sparx™ Skate Sharpener is not intended for use by persons (including children 13 years and over) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the Skate Sharpener by a qualified adult.
6. Children should be supervised to ensure that they do not play with the Sparx™ Skate Sharpener.
7. The Sparx™ Skate Sharpener may only be used for sharpening skates.
8. Only Sparx™ **Grinding Rings** may be used with this machine.
9. Set up the product securely on a stable surface and in a protected location. It must be placed where no one can step on or trip over the **Power Cord** and where the **Power Cord** cannot be damaged.
10. Always use the Sparx™ Skate Sharpener in a dry, well-lit and non-condensing environment. To avoid the risk of electric shock, do not use the Sparx™ Skate Sharpener in wet or damp conditions.
11. To avoid injury, always use caution when operating the Sparx™ Skate Sharpener or when changing the **Grinding Ring**.
12. Do not attempt to touch the **Grinding Ring**, **Carriage**, or **Skate Clamp** while the **Grinding Ring** is moving. Wait for the **Carriage** and **Grinding Ring** to come to a complete stop before attempting any adjustments or **Grinding Ring** replacement.
13. Make sure that the **Thumb Nut** is tightened down onto the **Grinding Ring** before starting any grinding operation
14. Do not leave the Sparx™ Skate Sharpener running unattended.
15. Never disconnect the **Power Cord** by pulling the wire to disconnect it from the socket.
16. Store the Sparx™ Skate Sharpener in a dry place, out of the reach of children.
17. Maintain the sharpener according to the Maintenance section of this manual. Cleaning the **Sharpener Base** and Replacing the **Air Filter**, at specified intervals, are necessary steps for performance and safety.
18. If at any time the product does not operate normally, see the Troubleshooting section of this manual.
19. There are no user-serviceable parts on the sharpener. The sharpener should only be repaired by a professional Sparx™ Hockey technician, using only original spare parts. Unauthorized repairs could lead to hazardous conditions for the user and/or void the warranty.
20. For any further questions about the sharpener, please contact Sparx™ Hockey Support at 1-855-SPARXHQ (1-855-772-7947) or by email at [help@sparxhockey.com](mailto:help@sparxhockey.com).



Warning: Please see the manual for operating instructions.



Caution: Pinch point hazard. Keep hands, hair and other body parts clear of the **Skate Clamp** area.

## **FCC NOTICE (FOR U.S. CUSTOMERS)**

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This device complies with Part 15 of the FCC Rules:

Operation is subject to the following conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation

Changes and Modifications not expressly approved by Velasa Sports, Inc. can void your authority to operate this equipment under Federal Communications Commissions rules.

## **ISED RSS-GEN NOTICE:**

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This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

## **ENVIRONMENTAL PROTECTION**

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Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.



## **CONFORMITY WITH DIRECTIVES**

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This product is CE marked to denote conformity with: Low Voltage Directive 2014/35/EC, EMC Directive 2014/30/EU, RoHS Directive 2015/863, Radio Equipment Directive 2014/53/EU, WEEE Directive 2012/19/EU

# 1

# SÉCURITÉ

## CONSIGNES DE SÉCURITÉ

1. Avant d'utiliser l'affûteuse de patins Sparx<sup>MC</sup>, vous devez vous familiariser avec le produit et lire et comprendre toutes les instructions et mises en garde dans ce manuel.
2. Portez un équipement de protection individuelle. Portez toujours des lunettes de sécurité et un masque anti-poussières lorsque vous utilisez l'affûteuse de patins.
3. En cas d'urgence : appuyez deux fois de suite sur le bouton  Annuler (Cancel). Ceci immobilise immédiatement la meule d'affûtage. N'arrêtez la meule d'affûtage qu'en cas d'urgence, car cela pourrait endommager la lame du patin.
4. Il n'est pas recommandé que les enfants de moins de 13 ans soient autorisés à utiliser l'affûteuse de patins Sparx<sup>MC</sup>.
5. L'affûteuse de patins Sparx<sup>MC</sup> ne doit pas être utilisée par des personnes (y compris des enfants de 13 ans et plus) ayant des capacités physiques, sensorielles ou mentales réduites, ou un manque d'expérience et de connaissances, à moins qu'elles soient surveillées ou qu'elles aient reçu une bonne formation sur l'utilisation de l'affûteuse par un adulte compétent.
6. Les enfants doivent être surveillés pour s'assurer qu'ils ne jouent pas avec l'affûteuse de patins Sparx<sup>MC</sup>.
7. L'affûteuse de patins Sparx<sup>MC</sup> doit être utilisée exclusivement pour l'affûtage de patins.
8. La machine doit être utilisée exclusivement avec des meules d'affûtage Sparx<sup>MC</sup>.
9. Pour assurer la sécurité de tout le monde, installez la machine sur une surface stable et dans un endroit protégé. Elle doit être placée dans un endroit où il n'y a aucun risque que quelqu'un puisse marcher ou trébucher sur le cordon d'alimentation ou le cordon d'alimentation puisse être endommagé.
10. Utilisez l'affûteuse de patins Sparx<sup>MC</sup> toujours dans un environnement sec, bien éclairé, et sans condensation. Pour éviter tout risque de décharge électrique, n'utilisez jamais l'affûteuse de patins Sparx<sup>MC</sup> dans des conditions humides ou mouillées.
11. Pour éviter les blessures, soyez toujours prudent lors de l'utilisation de l'affûteuse de patins Sparx<sup>MC</sup>, ou lors du remplacement de la meule d'affûtage.
12. N'essayez pas de toucher la meule d'affûtage, le guide-meule mobile ou la pince de serrage pendant la rotation et le mouvement de la meule. Attendez l'arrêt complet du guide-meule et de la meule d'affûtage avant de tenter un réglage ou le remplacement de la meule.
13. Assurez-vous que l'écrou à ailettes est serré sur la meule d'affûtage avant de commencer l'affûtage.
14. Ne laissez jamais l'affûteuse de patins Sparx<sup>MC</sup> sans surveillance pendant qu'elle est en marche.
15. Ne débranchez jamais le cordon d'alimentation en tirant sur le cordon.
16. Rangez l'affûteuse de patins Sparx<sup>MC</sup> dans un endroit sec, hors de la portée des enfants.
17. Entretenez l'affûteur conformément aux instructions de ce manuel. Le nettoyage de la base de l'affûteur et le remplacement du filtre à air à des intervalles spécifiés sont des étapes nécessaires pour la performance et la sécurité.
18. Si, à tout moment, la machine cesse de fonctionner normalement, consultez la section Diagnostic des pannes de ce manuel.
19. L'affûteuse ne comporte aucune pièce réparable par l'utilisateur. Elle ne doit être réparée que par un technicien professionnel Sparx<sup>MC</sup> Hockey, exclusivement avec des pièces de rechange d'origine. Les réparations non autorisées pourraient créer des conditions dangereuses pour l'utilisateur ou annuler la garantie.
20. Pour toute question au sujet de l'affûteuse, veuillez communiquer avec le service technique de Sparx<sup>MC</sup> Hockey au (855-772-7947) ou par courriel à [help@sparxhockey.com](mailto:help@sparxhockey.com).



Mise en garde : Veuillez consulter les instructions dans le manuel.



Attention : Danger de pincement. Gardez les mains, les cheveux et d'autres parties du corps à l'écart de la zone de la pince de serrage.

## AVIS DE LA FCC (POUR LES CLIENTS DES ÉTATS-UNIS)

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Cet appareil est conforme à la section 15 de la réglementation de la FCC :

Le fonctionnement est soumis aux conditions suivantes :

1. Cet appareil ne doit pas causer d'interférences nuisibles, et
2. Cet appareil doit accepter toute interférence reçue, y compris des interférences pouvant provoquer un fonctionnement indésirable.

Tous changements et modifications non explicitement approuvés par Velasa Sports, Inc. peuvent annuler votre droit d'utiliser cet équipement conformément aux règles de la Federal Communications Commission.

## AVIS ISED RSS-GEN:

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L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) L'appareil ne doit pas produire de brouillage; (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## PROTECTION ENVIRONNEMENTALE

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Les déchets de produits électriques ne doivent pas être jetés avec les ordures ménagères. Veuillez recycler où les installations existent. Renseignez-vous auprès de votre autorité locale ou de votre revendeur pour obtenir des conseils sur le recyclage.



## CONFORMITÉ AUX DIRECTIVES

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Ce produit est marqué CE pour indiquer la conformité avec : La directive Basse tension 2014/35/CE, la directive CEM 2014/30/EU, la directive RoHS 2015/863, la directive Équipements radio 2014/53/EU, la directive DEEE 2012/19/EU

# INTRODUCTION

## TECHNICAL SPECIFICATIONS

### SKATE COMPATIBILITY

Hockey Skates

Goalie Skates

Figure Skates\*

*\*Requires an additional adapter, which is sold separately.*

### DIMENSIONS AND WEIGHT

Width: 26.5 Inches / 673 mm

Height: 5.0 Inches / 127 mm

Depth: 11.9 Inches / 303 mm

Weight: 22.1 Pounds / 10 kg

### ELECTRICAL

Line Voltage: 100-240 Volts AC (50-60 Hz single phase)

Maximum Power Consumption: 140 W



For detailed videos on the individual steps of  
the sharpening process, head to:  
[sparxhockey.com/howto](https://sparxhockey.com/howto)

## GETTING TO KNOW YOUR SPARX SHARPENER 3



PART	DESCRIPTION
A	Skate Clamp
B	Keypad
C	Clamp Lever
D	Triggers
E	Slot Covers
F	Sharpener Base

PART	DESCRIPTION
G	Lever Dock
H	Power Switch
J	Power Input Port

PART	DESCRIPTION
K	Height Adjustment Knob
L	Alignment Adjustment Driver Slot
M	Grinding Ring Arbor
N	Thumb Nut

WHAT'S IN THE BOX?

1



2



3



4



5



6



7



8



9



10



11



PART	DESCRIPTION
1	Travel Guard
2	Power Cord
3	Goalie Risers (2)
4	Clamp
5	Adjustment Driver
6	Honing Kit
7	Sparx BEAM
8	BEAM Protective Case
9	BEAM Charging Pad
10	BEAM Charging Cord
11	BEAM Reference Gauge

## GETTING TO KNOW THE KEYPAD



PART	BUTTON	DESCRIPTION
A	Mode Indicator	Indicates <b>Grinding Ring</b> is in Alignment, Sharpening or Move mode.
B	Bluetooth Connection Indicator	Displays Bluetooth connection status.
C	Grinding Ring Life Indicator	Indicates remaining Grinding Ring life.
D	Cycle Count Indicator	Indicates the number of cycles set and remaining for sharpening.
E	Filter Indicator	Indicates Filter status. See Sparx Hockey App or online manual at <a href="http://sparxhockey.com">sparxhockey.com</a>
F	Alert Indicator	Refer to alert codes in Sparx Hockey App or online manual at <a href="http://sparxhockey.com">sparxhockey.com</a>
G	Play Button	Initiates <b>Skate Sharpening</b> .
H	Move Button	Used to locate skate blade contact point to set Grinding Ring Height.
J	Reduce Sharpening Cycles / Move Left	Reduces cycles from Cycle Count Indicator/Moves Grinding Ring to the Left in Move Mode.
K	Add Sharpening Cycles / Move Right	Adds cycles to Cycle Count Indicator/Moves Grinding Ring to the Right in Move Mode.
L	Cancel/Clear	Press once to stop sharpening at the conclusion of current pass. Press twice to stop sharpening immediately. Clears active alert indicator.
M	Bluetooth Connection	Press to pair sharpener with Sparx Hockey App.
N	Alignment	Press to initiate Alignment Mode.
O	Filter Status Button	Press to display remaining filter life.



# 3 SETUP



Before setting up your new Sparx Sharpener, we recommend downloading the Sparx Hockey App for enhanced sharpening features. Scan the QR Code to download now.

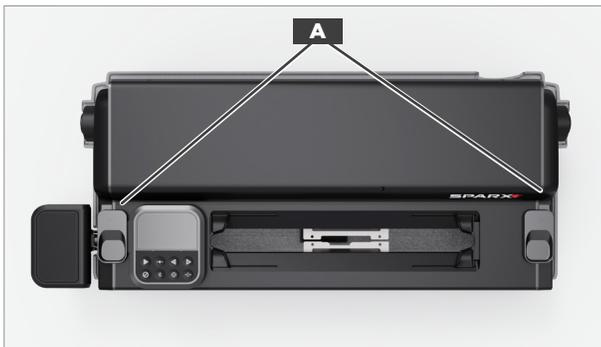
In order to begin setup of the sharpener, you must retrieve the included accessories that are stored within the Sharpener Base. To gather the accessories and begin setup you must lift the head unit as explained below.

## LIFTING HEAD UNIT

▶ To watch the How-To video, visit [sparxhockey.com/howto](http://sparxhockey.com/howto)

### 1 LOCATE THE TRIGGERS

Located on the top of the sharpener head unit are two **Triggers** (A), one on each side of the sharpener.



### 2 SLIDE THE TRIGGERS AND LIFT HEAD UNIT

Slide the triggers down as shown below.



With the triggers slid down, raise the head unit and remove the contents inside.



### 3 CLOSE THE HEAD UNIT

Slide the triggers down and place the head unit back into position.

## ASSEMBLING THE SHARPENER

▶ To watch the How-To video, visit [sparxhockey.com/howto](http://sparxhockey.com/howto)

### 1 INSTALL THE CLAMP LEVER

Slide the **Clamp Lever** (A) onto the **Lever Dock** (B). Press the lever down until it clicks into place. When the **Clamp Lever** is engaged, it will lay at a slight angle.



### 2 REMOVE THE TRAVEL GUARD

Open the **Skate Clamp** by pressing and holding down the **Clamp Lever**. Remove the **Travel Guard**. Release the **Clamp Lever**.



Transporting or moving the Sharpener without the **Travel Guard** installed voids your **Warranty** and/or **Extended Service Plan**. Always remove the **Travel Guard** before operating the Sparx Sharpener.

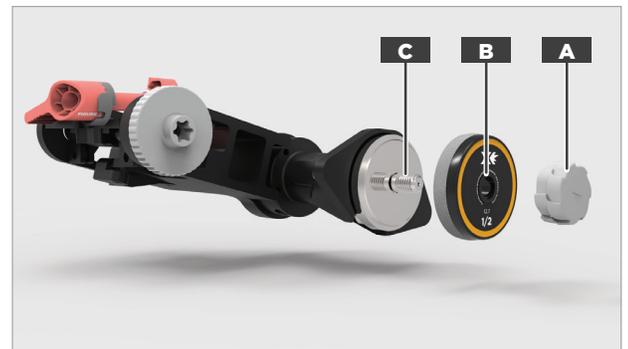
### 3 PLUG IN THE POWER CORD

Plug the **Power Cord** into the **Power Input Port** on the side of the sharpener. Plug the other end into a wall outlet. Toggle the switch on the **Power Input Port** to the on position (I=on, O=off).



### 4 INSTALL THE GRINDING RING

While holding the **Grinding Ring Arbor** (C), slide the **Grinding Ring** (B) on the **Grinding Ring Arbor** (C), label facing out, and replace and tighten the **Thumb Nut** (A) until hand-tight. Close the **Head Unit**.



# 4 SHARPENING SKATES

## LOADING A SKATE

\*For loading goalie skates and figure skates see the end of this section.

📺 To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)

### 1 LOAD THE SKATE

Press and hold down the **Clamp Lever** to open the **Skate Clamp**. With the skate toe pointing right and the laces tucked into the skate, set the skate into the **Skate Clamp** slot letting the plastic blade holder rest on top of the clamps. Center the skate blade in the **Skate Clamps**. Release the **Clamp Lever**.



### 2 CLOSE THE SLOT COVERS

Move each **Slot Cover (A)** in toward the skate until they touch the blade holder.



We recommend inserting the skate into the **Skate Clamp** with the toe pointing to the right. For most skate blades, this orientation allows for the greatest flexibility in **Grinding Ring** height adjustment.

## ADJUSTING THE GRINDING RING HEIGHT

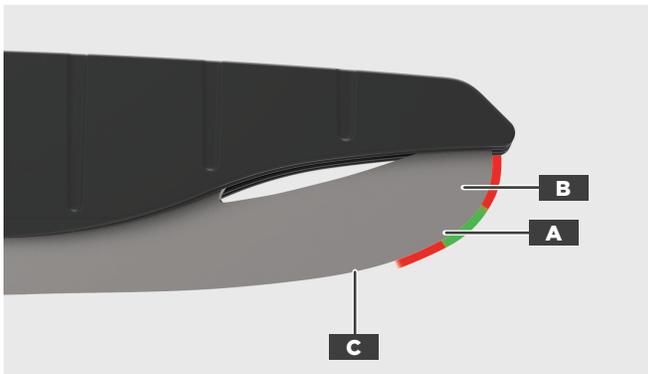
▶ To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)



For every pair of skates sharpened, you must assess the height of the **Grinding Ring** and adjust if necessary.

We will first introduce a few new concepts, and then move into the actual adjustment. We want to define an intersection zone, where the vertical face of the blade (B) meets the nearly horizontal face of the blade (C).

This zone can be a curved section of blade (A) like that shown in the figure below or in some cases, it can be a point where surfaces (B) and (C) meet.



When the intersection zone is a curved surface (A as shown above) the **Grinding Ring** can safely initially contact the blade anywhere in this region (A).

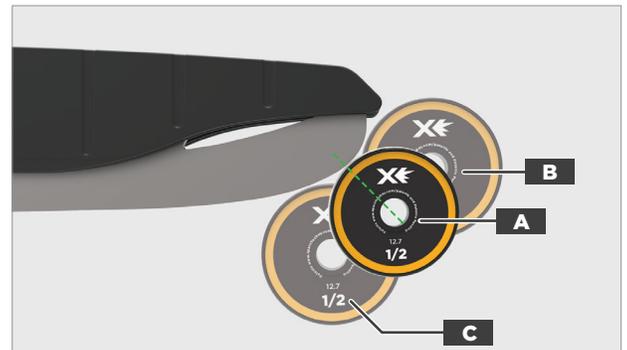
When the intersection zone is a point, which is more common with skates that have been sharpened multiples times, the first contact between the **Grinding Ring** and the blade should be just below the point.

### 1 INITIATE MOVE MODE

Press the **Move Button** on the **Keypad**. This will set the **Grinding Ring** into **Move Mode** and allow you to control its movement.

### 2 INSPECT THE CONTACT POINT

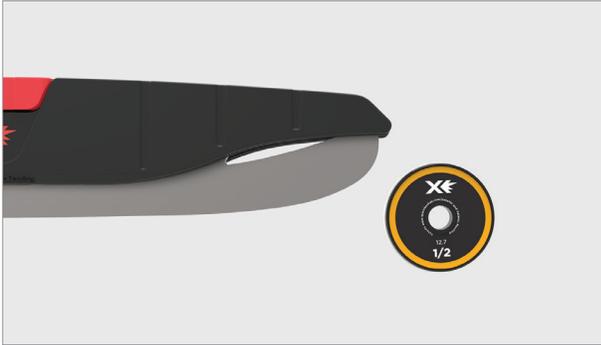
Use the **Left** and **Right Buttons** to touch the **Grinding Ring** to the skate blade. Inspect its contact point and be sure it is in the desired position. In the graphic below you will see an example of a contact point that correctly set (A), too high (B), and too low (C). Another way to help visualize the correct contact point would be drawing an imaginary line (green dashed line in the example below) from the center of the **Grinding Ring** to the initial contact point, the line should be at a 45 degree angle. If the **Grinding Ring** is not in a desired position, follow step 3. If the **Grinding Ring** is in a desired position, skip to step 6.



## SELECTING THE NUMBER OF CYCLES

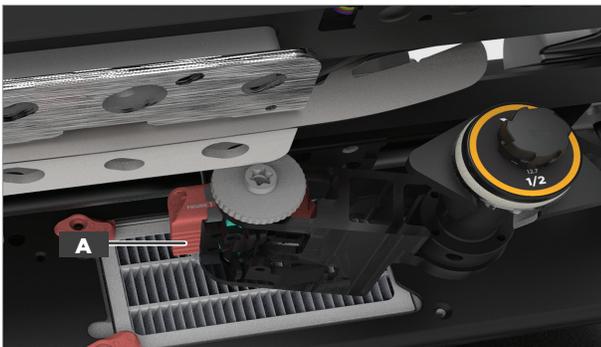
### 3 MOVE THE CARRIAGE INTO POSITION

Using the **Left** and **Right Buttons** on the **Keypad**, back the **Grinding Ring** off the toe of the skate blade 1/4 inch.



### 4 ADJUST THE GRINDING RING HEIGHT

Lift the **Head Unit**. Locate the red **Height Adjustment Knob** (A). Turn the knob left to raise the height or right to lower the height until the **Grinding Ring** is at the desired height. The knob is labeled 1-8, with 8 being the highest setting for the **Grinding Ring** and 1 being the lowest setting.



### 5 INSPECT THE CONTACT POINT

Using the **Left** and **Right Buttons**, touch the **Grinding Ring** to the skate blade. Inspect its contact point and be sure it is in its desired position. Repeat steps 4 and 5 until the **Grinding Ring** makes contact at the desired position.

### 6 END MOVE MODE

Press the **Move Button** again to send the **Grinding Ring** back to its home position.

When the sharpener moves the **Grinding Ring** out and back over the skate blade once, it is called a cycle.

When sharpening your first pair of skates, we recommend sharpening with **six cycles**. This allows the Sparx BEAM™ to give you an accurate reading on the alignment of your sharpener.

We have found that four cycles will handle normal wear and tear (and even small nicks) from one to four hours of skating between sharpenings. For brand-new steel or when changing **Grinding Ring** hollow depths, we recommend using **ten cycles** to ensure you completely reset the skating surface of the blade.

### 1 ADJUST THE CYCLE COUNT

Use the **Left** and **Right Buttons** (A) on the **Keypad** to adjust the number of cycles desired. The number of cycles selected will be illuminated on the **Cycle Counter** (B).



## SHARPENING SKATES

Once you have loaded the skate, closed the **Slot Covers**, and adjusted the height of the **Grinding Ring**, you are ready to begin sharpening.

To cancel the cycles at any point during the sharpening, press the **Cancel Button** once. This will send the **Carriage** back to its home position at the end of its current pass.

### 1 BEGIN SHARPENING

Press the **Play Button**. Once the button has been pressed, it will change from white to blue and the sharpening process will begin.

Upon pressing the **Play Button**, the **Air Filter** fan and grinding motor will turn on. The **Cycle Counter** will flash with the current cycle number until that cycle (out and in) is completed. The sharpener will continue to run until all cycles have been performed.

At the completion of the final cycle, the end of sharpening is marked by a "cycle complete" tone and the case LEDs will turn green. The fan will continue to run for an additional 30 seconds after the final cycle completes.

### ADDITIONAL CYCLES

If additional cycles are desired, you can reset the cycle count and press the **Play Button** again.



If the **Grinding Ring** skips when it first makes contact with the blade, the **Grinding Ring's** height is too high. When properly set, the **Grinding Ring** should make a smooth transition onto the skate blade.

## UNLOADING A SKATE

### 1 DISENGAGE SLOT COVERS

Move both **Slot Covers** (A) away from the skate.



### 2 REMOVE THE SKATE

Press and hold down the **Clamp Lever** to open the **Skate Clamp**. Remove the skate from the **Skate Clamp** and release the **Clamp Lever**.



## EDGE DEBURRING

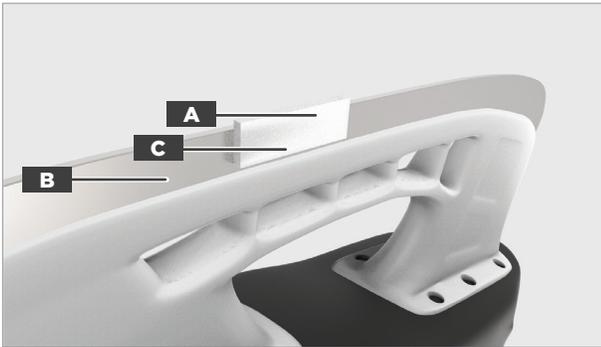
▶ To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)



We recommend using protective gloves when deburring the skate blade.

### 1 DEBURR THE BLADE WITH THE STONE

Press the **Honing Stone** (A) against the face of the skate blade (B). Do not put pressure on the side of the stone closest to the blade edge. With light pressure, press down on the lower side of the stone (C) and slowly run the stone back and forth along the length of the blade for four full passes.

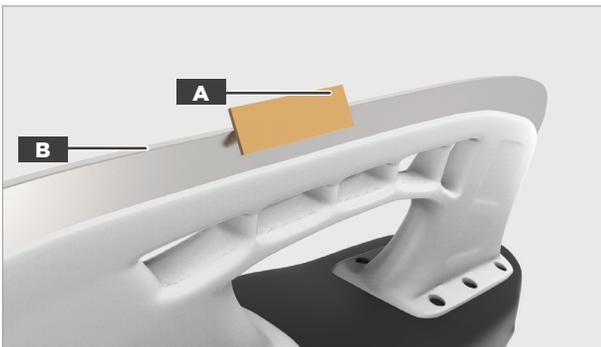


### 2 REPEAT ON THE OPPOSITE SIDE

Turn the skate over. Repeat step 1 on the opposite side of the blade.

### 3 DEBURR THE BLADE WITH THE STROP

Press the **Leather Strop** (A) against the edge of the skate blade (B) at a 45 degree angle. With light pressure, slowly run the strop back and forth along the length of the edge for four full passes



### 4 REPEAT ON THE OPPOSITE SIDE

Turn the skate over. Repeat step 3 on the opposite edge of the blade.



When deburring coated steel, make sure to only use the **Leather Strop** or the **Coated Steel Kit** (sold separately) to ensure you do not remove or damage the coating.

# 5

## USING BEAM™

📺 To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)

The **Sparx BEAM™** is used to ensure your **Sparx Sharpener** is perfectly aligned. This step is important for your first sharpening and future sharpenings to make sure you are consistently aligned.

The **Sparx Sharpener** comes out of the box aligned in the factory, but it is important to check your edges after the first sharpening in case the **Sparx Sharpener** alignment shifts in transit.

For enhanced sharpening features and to continue to the next step, you need to download the **Sparx Hockey app**.



Before proceeding with the Sparx BEAM, we recommend downloading the Sparx Hockey App for enhanced sharpening features. Scan the QR Code to download now.

- 1 TURN THE BEAM ON AND CONNECT**  
Press the power button on the **Sparx BEAM** and open the **Sparx Hockey app**. Head to the **BEAM** section of the **App** and begin the connection process.

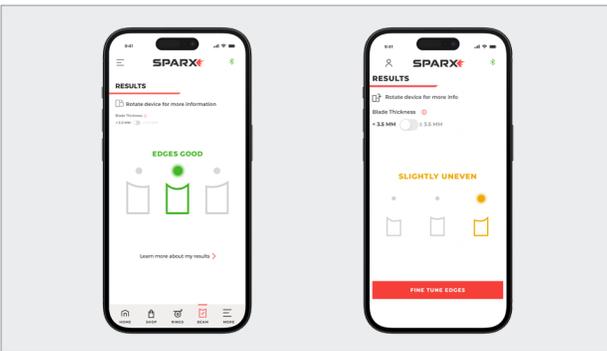


- 2 PLACE BEAM ON SKATE**  
With the toe of the skate pointing towards you, place the **Sparx BEAM** on the middle of the skate blade. Tighten the screw (A) on the **BEAM**.



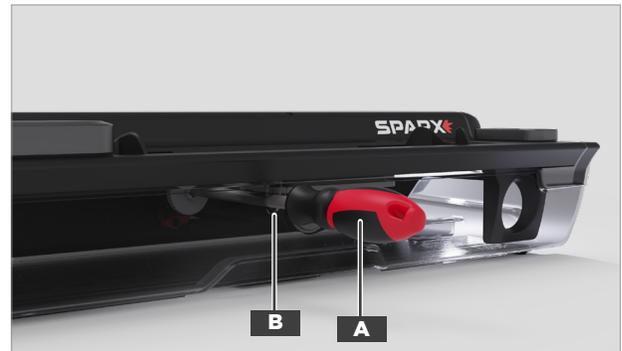
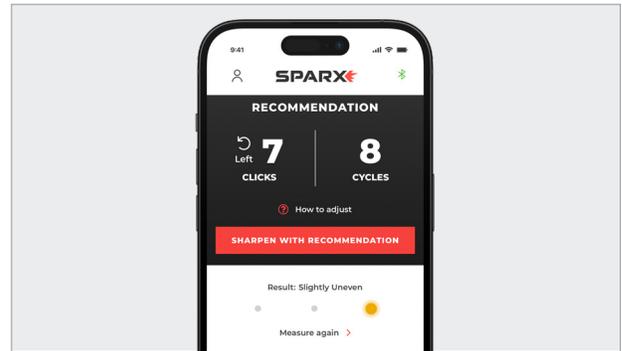
**3** READING THE BEAM

Flick the tilt bar up and down to ensure it's settled on the steel. The three lights on the front of the **BEAM** will show an even edge or direct you which side of the edge is high. Head to the **Sparx Hockey app** for an exact reading and recommendations.



**4** ADJUSTING THE ALIGNMENT

If your **BEAM** says “EDGES GOOD”, your sharpener is aligned and there’s no need for adjustments. If your **Sparx Sharpener** is not properly aligned, the **Sparx BEAM** and **App** will provide a recommendation to get your sharpener aligned and skate edges even. Press the align button on the keypad and insert the **Adjustment Driver (A)** into the **Adjustment Driver Slot (B)** and adjust in the direction as recommended in the app.



**5** SHARPEN YOUR SKATES

Enter the amount of cycles recommended by the **Sparx Hockey app** and resharpen your skates.

**6** DEBURR YOUR SKATES

Repeat the deburring process to ensure your **BEAM** gives you a proper reading.

**7** RECHECK YOUR EDGES

Repeat steps 2-7, until you have achieved “EDGES GOOD” in the **Sparx Hockey app**. Once you have an even reading, your edges are even and the **Sparx Sharpener** is properly aligned.

# ADDITIONAL SHARPENING

## GOALIE SKATES

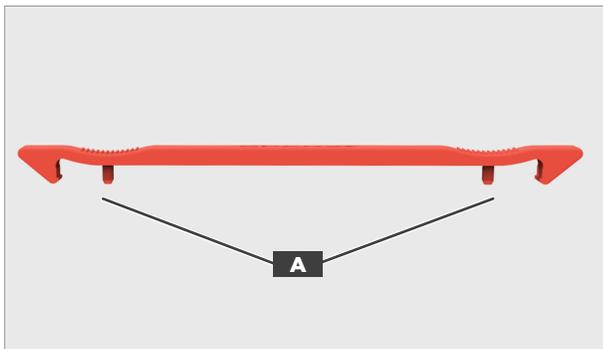
 To watch the How-To video, visit [sparxhockey.com/howto](http://sparxhockey.com/howto)

Goalie risers are only necessary if your skate has a cowling. Goalie skates without a cowling you may sharpen normally without risers.

If your skate does have a cowling, follow the steps below.

### 1 INSTALL THE GOALIE RISERS

Align the **Anchor Pins (A)** of the **Goalie Risers** to the **Anchor Slots** of the **Skate Clamp**. Once aligned, press down firmly until you feel the **Goalie Risers** snap into place.

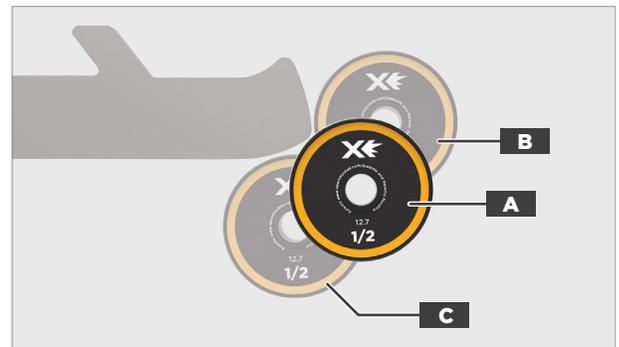


### 2 CONTINUE THE SHARPENING PROCESS

Refer to “Loading a Skate” in the Operation section of the manual. When adjusting the **Grinding Ring Height**, refer the graphic in step 3.

### 3 ADJUST THE GRINDING RING HEIGHT

Refer to “Adjusting the Grinding Ring Height” in the Operation section of the manual using the figure below as your guide where the desired contact point is A, contact point B is too high and contact point C is too low.



### 5 CONTINUE THE SHARPENING PROCESS

Refer to “Sharpening Skates” in the Operation section of the manual.

### 6 REMOVE THE GOALIE RISERS

Pull up on each end of the **Goalie Risers** to remove from the **Skate Clamp**.



## FIGURE SKATES

 To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)

*\* Figure Skate Adapters are sold separately.*

Before loading a figure skate, **Figure Skate Adapters** must be installed onto each end of the skate steel as shown below.

### 1 PLACE ADAPTER OVER TAIL AND TOE PICK

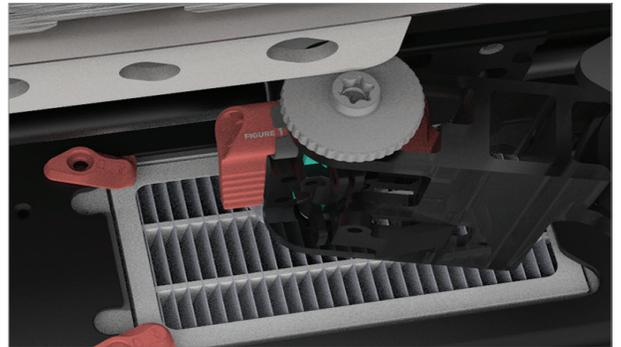
Using the included wrench tighten the set screw until finger tight do not over tighten, the adapter should still be able to pivot.

Be sure to keep the drag pick covered. After both adapters are installed perform a visual to check to ensure that both adapters are on a level horizontal plane.



### 2 ADJUST THE GRINDING RING HEIGHT

Set the grinding ring height setting to **Figure (1)**. Look for the contact point at which the grinding ring starts to roll on the skate using the move button. If the contact point is leaving some of the skate blade untouched you may need to adjust the adapter slightly higher.



### 3 INSERT SKATE INTO SKATE CLAMP

We recommend having the toe pointing right. Ensure that the adapters are sitting flush with the top surface of the sharpener.



### 4 CONTINUE THE SHARPENING PROCESS

Refer to "Sharpening Skates" in the Operation section of the manual.

## SHARPENING NEW STEEL

▶ To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)



Before loading new steel, take a dark colored marker and fill in three strips (1 inch in length the full width of the blade) on the toe, heel, and middle of the bottom surface of the skate blade. To ensure you have sharpened the entire blade, inspect the blade after running the cycles and if the sharpening is complete, all of the marker on the skating surface will be removed.

### 1 LOAD THE SKATE

After applying the marker (A in the below example), follow the instructions in “Loading a Skate” in the Operation section of this manual.

### 2 ADJUST GRINDING RING HEIGHT

Follow the instructions in “Adjust the Grinding Ring Height” in the Operation section of this manual.

### 3 SELECT TEN CYCLES

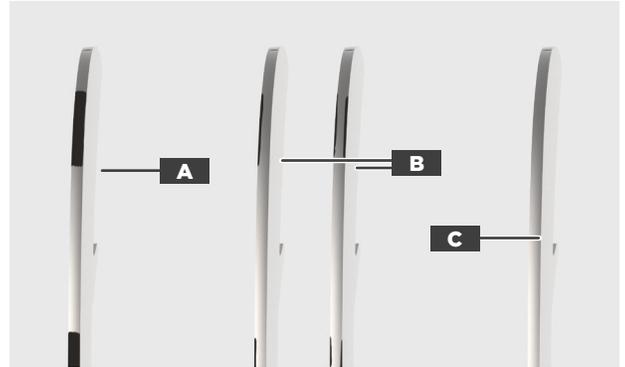
Using the ◀ **Left** and ▶ **Right Buttons**, select **ten cycles** the **Cycle Counter**.

### 4 CONTINUE THE SHARPENING PROCESS

Refer to the Operation section of the manual.

### 5 INSPECT BLADE SURFACE

If the marker is gone (C in the example below), you have successfully set your edges. If there is still marker left on the blade (B), continue running cycles until it is completely gone. Due to variations in blade thickness, steel quality, and edge height difference, some new steel may require fewer than 10 cycles, and some more.



## 7

## TROUBLESHOOTING

## ERROR CODES

For all errors, an error code is displayed on the **Display**. The troubleshooting table below suggests corrective actions to resolve the error. Please contact **Sparx Hockey** at [help@sparxhockey.com](mailto:help@sparxhockey.com) with any questions regarding error codes.

ERROR CODE	CAUSE	CORRECTIVE ACTION
22	<b>Door open.</b>	Close Door.
24	Grinding Ring has insufficient life remaining for selected sharpening operation.	You will need to reduce your cycles or install a different ring.
28	Door open during sharpening.	Close the door then press Cancel button to reset sharpener.
29	Air filter full (0% remaining)	Replace air filter.
30	Air filter missing	Install air filter.
31	<b>Grinding Ring not found.</b>	Install a valid Grinding Ring.
33	<b>Sharpener failed to detect skate</b>	Load a skate into Sharpener
34	<b>Emergency stop: Cancel button pressed twice.</b>	Make sure machine is safe before resetting.
38	<b>Grinding ring read / write error</b>	Error reading/writing grinding ring. Please try a different grinding ring.
40	<b>Bluetooth failed to connect</b>	Please check bluetooth settings on your phone.
41	Hardware circuit failure	Please contact Sparx support.
44	Grinding Motor Fault (Undercurrent)	Please contact Sparx support.
45	Grinding Motor Fault (Overcurrent)	Please contact Sparx support.
48	FileSystem Incompatibility	Commercial and Cross Grind rings are not supported on this machine.
49	<b>Team Machine: XG ring installed</b>	Cross grind rings are not supported on this machine.
52	<b>Grinding ring did not reach the right limit switch.</b>	Remove skate, power machine off, open top, ensure bucket is clear of foreign objects, close top, power on and restart.
53	<b>Grinding ring did not reach the left limit switch.</b>	Remove skate, power machine off, open top, ensure bucket is clear of foreign objects, close top, power on and restart

## 8

## MAINTENANCE

## REMOVING THE HEAD UNIT

📺 To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)

## 1 LIFT THE HEAD UNIT

Slide the **Triggers** down and lift **Head Unit** to the furthest open position.



## 2 REMOVE HEAD UNIT THUMB SCREWS

Locate the two thumb screws (A), one located on each side of the sharpener. Unscrew the thumb screws and lift the **Head Unit** straight up.



## 3 SEPARATE HEAD UNIT FROM THE SHARPENER BASE

Firmly grasp the **Head Unit** with two hands and lift it out of the **Sharpener Base**. Gently place the **Head Unit** down onto a clear surface.

## 4 REPLACE HEAD UNIT

Place the **Head Unit** back onto the **Sharpener Base**, maintaining the same angled position the **Head Unit** was in when it was removed. Screw the two thumb screws back into the hinges.





There are no user-repairable parts in the Sparx Skate Sharpener. Refer to “Exclusions” in the Warranty section for more information. Maintenance of the Sparx Skate Sharpener is limited to the procedures outlined in this section.

## REMOVING AND EMPTYING THE SHARPENER BASE

To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)

**Maintenance Frequency:** Perform the following steps after every  $\frac{1}{2}$  **Grinding Ring of sharpener use** (160 cycles on the Radius Ring™ and the FIRE Ring™) and before moving and/or traveling with the sharpener.

### 1 REMOVE AND EMPTY THE SHARPENER BASE

Remove the **Head Unit** from the top of the **Sharpener Base**. To empty **Sharpener Base**—wipe completely clean with a damp cloth (water).

**!** Do not use any solvents or cleaning chemicals in and around the **Skate Sharpener**.



### 2 VACUUM SHARPENER

Without removing the **Air Filter**, thoroughly vacuum the top, sides, and around the **Air Filter Housing**. We recommend using a HEPA certified vacuum.

### 3 CLOSE THE HEAD UNIT

Install the Head Unit back onto the top of the Sharpener.

## REPLACING THE AIR FILTER

To order a replacement **Air Filter**, visit [sparxhockey.com/new-filter](https://sparxhockey.com/new-filter)

To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)

**Standard Grinding Ring Use** (Radius Rings™ and FIRE Rings™): The **Air Filter** should be replaced every 4 **Grinding Rings** (1,280 cycles).

**Maintenance Frequency:** The **Air Filter** replacement limits listed above are related to the type of **Grinding Rings** being used and refer to the maximum amount of usage that an **Air Filter** should have when using a specific type of **Grinding Ring**.

The **Air Filter Button** will light up to remind you to replace the **Air Filter** at the Standard **Grinding Ring** Use interval ONLY.

Detailed info regarding Air Filter life is also available in the Sparx Hockey App.

### 1 ENTER FILTER REPLACEMENT MODE

Power the sharpener on and click the **Air Filter Button**. The carriage will reposition itself away from the **Air Filter**.

### 2 OPEN HEAD UNIT AND CLEAN BASE

Open the **Head Unit**. To empty **Sharpener Base**—wipe completely clean with a damp cloth (water).

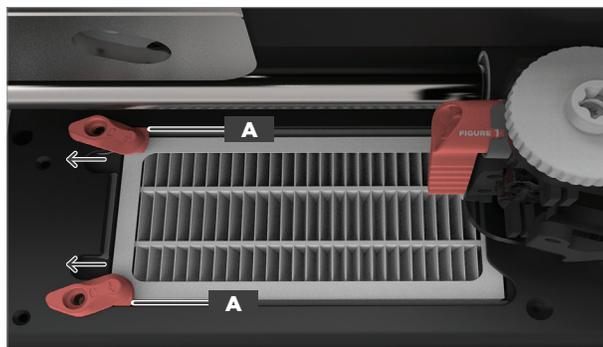
**!** Do not use any solvents or cleaning chemicals in and around the **Skate Sharpener**.

### 3 VACUUM SHARPENER

Before removing the **Air Filter**, thoroughly vacuum the top, sides, and around the **Air Filter Housing**. We recommend using a HEPA certified vacuum.

### 4 REMOVE THE OLD FILTER

Pivot the **Filter Clamps (A)** so that they are no longer holding the **Air Filter** in place.



Pull up on the **Air Filter Pull-Tab** to lift the filter out of the sharpener.

**5 INSERT THE NEW AIR FILTER**

Vacuum any remaining dust from the **Filter Housing** area. Insert the new **Air Filter** with the pull-tab on the left-hand side and black seal going into the sharpener. Once inserted, pivot the **Filter Clamps** into their original positions.

**6 RESET THE AIR FILTER BUTTON**

Once your filter has been replaced, hold down the **Air Filter Button** for two seconds until an audible tone is heard to reset the system and extinguish the **Air Filter Button**.

shown below. Release the **Clamp Lever**. Ensure that the middle section of the **Travel Guard** is held securely in the **Skate Clamp**.



**TRAVELING WITH THE SHARPENER**

To watch the How-To video, visit [sparxhockey.com/howto](http://sparxhockey.com/howto)

**1 EMPTY THE SHARPENER BASE**

Lift the **Head Unit** and wipe the **Sharpener Base**. To empty **Sharpener Base**—wipe completely clean with a damp cloth (water).

*Do not use any solvents or cleaning chemicals in and around the **Skate Sharpener**.*



**2 VACUUM SHARPENER**

Without removing the **Air Filter**, vacuum the top of and around the **Air Filter Housing**. We recommend using a HEPA certified vacuum.

**3 INSTALL THE TRAVEL GUARD**

Open the **Skate Clamp** by pressing and holding down the **Clamp Lever**. Install the **Travel Guard** by placing the claw of the **Travel Guard** behind the **Grinding Ring Arbor's** impeller as

**4 REMOVE THE CLAMP LEVER**

Slide the **Clamp Lever** (A) off of the **Lever Dock**.



**5 TRAVEL WITH THE SPARX TRAVEL CASE**

For the highest level of protection and safety when traveling with your Sparx Skate Sharpener and accessories, we recommend using the Sparx Travel Case (sold separately).



When setting up the Sparx Sharpener after travel, wipe down the **Grinding Ring Arbor's** face and threaded arbor to remove any unwanted steel shavings that may have gathered during transit. This will ensure a proper fit between the **Grinding Ring Arbor** and the **Grinding Ring**.

## INSTALLING THE SPARX SHARPENER 3 PRO BASE

📺 To watch the How-To video, visit [sparxhockey.com/howto](https://sparxhockey.com/howto)

*\* Sparx Sharpener Base Pro is sold separately.*

### 1 REMOVE THE HEAD UNIT

Lift the **Head Unit** into the upright position, unscrew the **Thumb Nuts** on the side of the **Sharpener Head** and separate the **Head Unit** from the **Sharpener Base**. Set aside the **Thumb Nuts** for use in Step 3.



### 2 PLACE HEAD UNIT ON THE BASE PRO

Gently place the **Sharpener Head Unit** down on to the top of the **Sparx Sharpener 3 Pro Base**.



### 3 TIGHTEN THUMBNUTS

Reinstall each of the **Thumb Nuts** (A) back into the **Sharpener Head Unit** and the **Sparx Sharpener 3 Pro Base**.



### 4 LOCK THE BASE

Lower the **Head Unit** down into the home position and slide the latches on each side of the base into the lock position (A).



# 9

## WARRANTY

ANY PURCHASE OF A SPARX HOCKEY PRODUCT IS COVERED UNDER THE ASSOCIATED PRODUCT WARRANTY POSTED AT

**[SPARXHOCKEY.COM/WARRANTIES](https://www.sparxhockey.com/warranties)**

FROM THE DATE OF SHIPMENT OF THE SPARX HOCKEY PRODUCT.

VELASA SPORTS MAY AT ANY TIME AND IN IT'S SOLE DISCRETION, MODIFY ANY OF THE TERMS AND CONDITIONS CONTAINED IN THE WARRANTY POLICY.

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