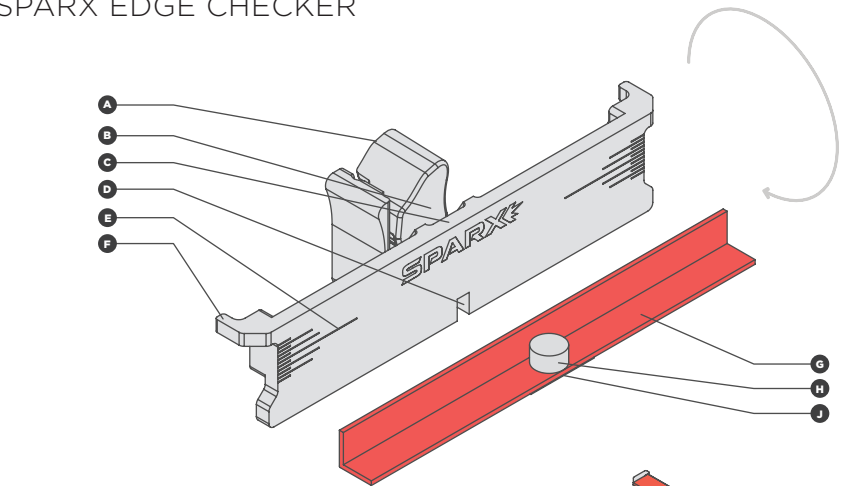


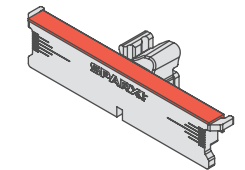
SPARX

INSTRUCTION MANUAL

THE SPARX EDGE CHECKER



PART	DESCRIPTION
A	Clamp Trigger
B	Bar Storage Location
C	Housing
D	Blade Slot
E	Indicator Lines
F	Bar Protection Wing
G	Measurement Bar
H	Magnet
J	Wear Plate

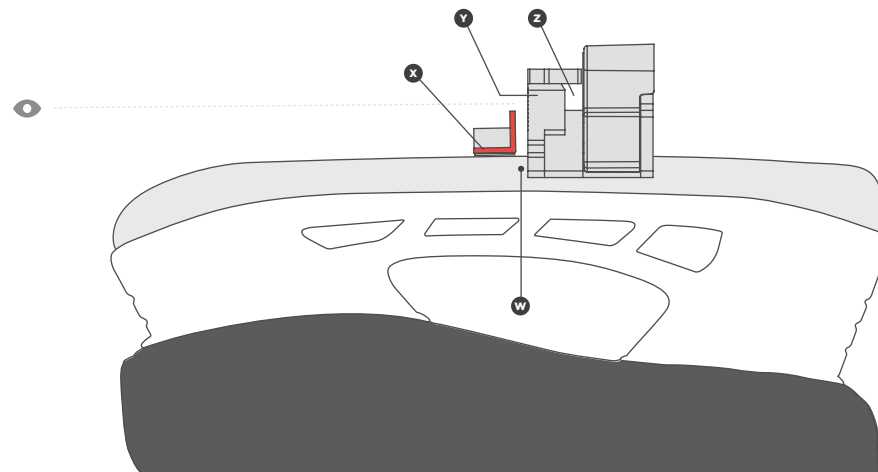


Drawing shows Measurement Bar in Bar Storage Position.

HOW TO USE

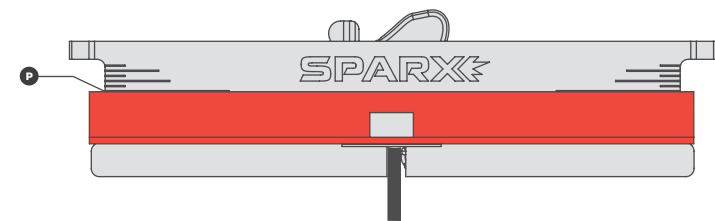
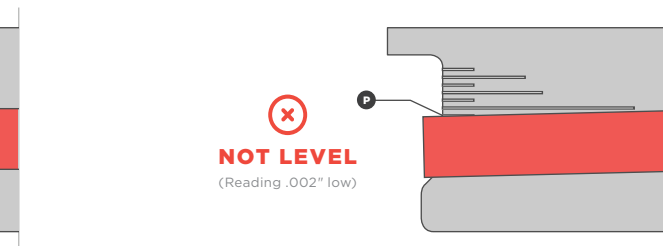
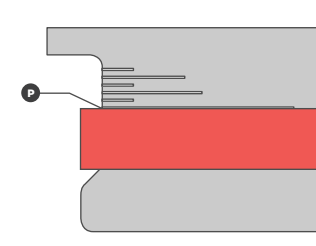
Approximate the center point (W) of the blade. With the front of the **Edge Checker Housing (Y)** facing the center point, squeeze the **Clamp Trigger** and place the **Blade Slot** on the skate blade with the blade edges touching the bottom of the **Blade Slot**. Release the **Clamp Trigger**. Next, remove the **Measurement Bar (X)** from its **Bar Storage Location (Z)**. With the **Wear Plate** facing down, place the **Measurement Bar** on the blade in front of, but not in contact with, the **Edge Checker Housing**.

📺 To watch the How-To video, visit sparxhockey.com/edgechecker.



READING THE RESULTS

To read the levelness of the skate blade, you need to look at the ends of the **Edge Checker** where the **Measurement Bar** overlaps the edge of the **Housing (P)**. Together, the **Measurement Bar** and the **Indicator Lines** will show the levelness of your edges. The space between each line indicates an edge height difference of **.002"**. If the top edge of the **Measurement Bar** lines up with the middle **Indicator Line** on both sides of the housing, your edges are level. If the **Measurement Bar** is angled, with one end higher than the other, the degree to which the edges are not level is determined by counting the lines up or down from the center line to the **Measurement Points (P)**.



TROUBLESHOOTING UNEVEN EDGES

When properly aligned, the Sparx Sharpener is engineered to produce even edges to **within .001"**. To put this into perspective, the thickness of the paper you are holding is five times greater than this .001" of misalignment. Through extensive on-ice testing, we have found that edges within .002" (one **Indicator Line** on the **Sparx Edge Checker**) are more than acceptable and do not require any further adjustment of the sharpener.

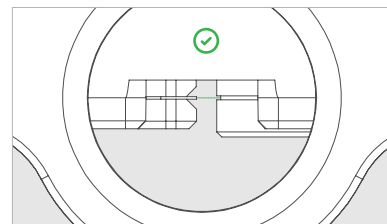
If your edges have a height difference of greater than .001" and you would like to refine further, please follow this troubleshooting guide.

To watch the How-To video, visit sparxhockey.com/unevenedges.

1 SHARPENER ALIGNMENT

Inspect the alignment of your Sparx Sharpener.

sparxhockey.com/alignment



IS THE SHARPENER MISALIGNED?

YES

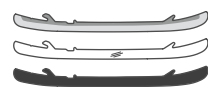
Re-align, sharpen ten cycles and re-check edge height. Edges should now be even.

NO

Move to Step 2: Blade Composition.

2 BLADE COMPOSITION

Does your blade have a Black or Chrome coating? Is it made from multiple materials (Bauer® Fusion, CCM® Rocket Runner, etc.)? These blades have inconsistencies in their sidewall structure and we have found it difficult to get a proper edge height reading on them.



IS YOUR STEEL COATED OR MULTIPLE MATERIALS?

YES

Try sharpening single material, uncoated steel and check edge height. Edges should now be even.

NO

Move to Step 3: Deburred Edges.

3 DEBURRED EDGES

While most burrs found on a sharpened blade are insignificant, large burrs (>.001") that are not properly removed can alter the reading on your **Edge Checker**. Please be sure to deburr thoroughly to remove any large burrs.

sparxhockey.com/deburr

DO YOU STILL FEEL A BURR?

YES

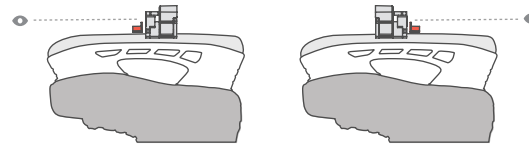
Repeat the deburring process and re-check edge height. Edges should now be even.

NO

Move to Step 4: Edge Checker Test.

4 EDGE CHECKER TEST

Take your first measurement from the middle of the blade, record which edge is high/low using a marker on the blade. Remove and flip the **Edge Checker** around. Measure the same point on the blade facing the opposite direction. Edge Checker should read the same regardless of orientation



IS THE EDGE CHECKER GIVING YOU AN INCONSISTENT MEASUREMENT (>.001")?

YES

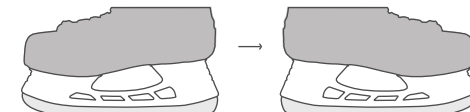
Replace the Edge Checker and re-check edge height. Edges should now be even.

NO

Move to Step 5: Blade Straightness Test.

5 BLADE STRAIGHTNESS TEST

Note the orientation that your skate was sharpened in the previous step. Turn the skate around. Now, with your skate toe facing the opposite direction, run ten cycles. A bent blade may prevent the sharpener from putting even edges on the skate blade.



DOES THE HIGH EDGE STAY ON THE SAME SIDE OF THE SKATE REGARDLESS OF SKATE ORIENTATION?

YES

You likely have a bent blade. Try a different blade. Edges should now be even.

NO

Move to Step 6: Adjust the Sharpener Alignment

6 ADJUST THE SHARPENER ALIGNMENT

We can move the **Grinding Ring** with the **Alignment Adjustment Knob** in an attempt to resolve an uneven edge situation.

2 to 3 clicks on the **Alignment Adjustment Knob** will adjust the edge height approximately .001" (half an **Indicator Line** on your **Edge Checker**). This 2 to 3 clicks is for a 1/2" Radius Ring. Deeper hollows (smaller fractions) will be more sensitive and require fewer clicks for the .001" fix. Shallower hollows (larger fractions) will require more clicks for the same .001" of edge height adjustment.

Move the **Grinding Ring** 2 to 3 clicks at a time in the direction of the high edge. Turning the **Alignment Adjustment Knob** clockwise will move the **Grinding Ring** towards the front of the sharpener. Turning the **Alignment Adjustment Knob** counter-clockwise will move the **Grinding Ring** towards the back of the sharpener. Adjust and re-check edge height until edges are even.