

*Edge
Pro*

Sharpening Systems



SCISSOR CHISEL ATTACHMENT MANUAL

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Install SCA (Scissor Chisel Attachment) Pivot

If you purchased you SCA with your Pro, we did this step for you.

Remove the Lower Frame Screw and replace it with the longer screw in the kit. **REPLACE THE ORIGINAL NUT.** Put on one nylon washer, then the PIVOT, another nylon washer, and the new nut. Tighten so the pivot moves with a little tension.

Set up Instructions.

Remove the KNIFE GUIDE. Slide the SCA PIVOT ROD through the SCA pivot. Put the TOP PLATE of the SCA in place of the KNIFE GUIDE. Replace the nylon washer and Brass Nut. Notice that the SCA will slide back and forth about $\frac{1}{4}$ ". For regular scissors, pull it toward you, for hair shears put flush against the BLADE TABLE. Tighten the Brass Nut.

Select the Appropriate Stone

Cloth and paper cutting scissors start with a 220 and finish with a 400 or 600. Hair shears, start with a 400 or 600 progress to the 1000 stone, 2000, 3000 and the 6000 Tape. See Hair Shears Page 4.

Set the RAMP

Set the RAMP on the STONE ARM **LOWER** than the Stone. You do not use the RAMP when sharpening scissors. However, if you slip on to the RAMP you will not damage the edge.

Set the tilt of the Machine

Loosen the BASE LOCK KNOB and tilt the machine all the way toward you. This put the SCA at a comfortable working angle. Tighten the BASE LOCK KNOB. You do not use the TENSION ROD on scissors.

RISER BLOCK

If the scissor blade is shorter than 2 ¼" and they do not come apart use the RISER BLOCK. Remove the Right STOP BAR. Rotate the Left STOP BAR 90 degrees and tighten. Set the RISER BLOCK behind the CLAMP BAR and let it rest on the Left STOP BAR. Place the blade between the CLAMP BAR and the RISER BLOCK. Set the edge just above the RISER BLOCK and tighten.

Clamp the scissors in place

Back the CLAMP BAR LOCK KNOB out and adjust the ALLEN SCREW so the blade will slip behind the CLAMP BAR. Center the blade with the edge level and just above the BACKING PLATE and tighten the CLAMP. Slide the STOP BARS up against the blade and tighten. For safety, put a piece of plastic tubing over the vertical blade and a rubber band around the handle and the BACKING PLATE. This keeps the vertical blade from dropping down.

Set the sharpening angle

Set the KNIFE PIVOT at 15 degrees RED. Put felt tip marker on the scissor edge bevel. Pull the BACKING PLATE toward you until the stone is resting at the back of the scissor bevel. Tighten the SCISSOR PIVOT LOCK just enough so the PIVOT will move with some tension.

Grasp the bottom of the BACKING PLATE with one hand and slowly lower. At the same time slide the stone back and forth quickly about 1". Keep lowering the PLATE until the stone removes the marker from the width of the bevel. Lock the SCA PIVOT. All further adjustments, on this blade, will be made with the KNIFE PIVOT. You can move the KNIFE PIVOT very small amounts with great control.

Holding the STONE ARM

Do not use the KNOB. Grasp the STONE ARM STOP with one hand, and the CARRIAGE with the other. Put even down pressure on each end of the stone. The RAMP should be set below the stone.

Sharpening

Make slow long smooth strokes. You can cut on both strokes. Some factory scissor bevels are not flat so the EP will not match the bevel. Set to the middle of the blade. Then you have to take a lot of metal from one side of the blade and almost nothing from the other. Sharpen until you feel a burr along the edge. You can feel the burr with the scissors in the clamp. If you only have a burr in one area just work the area with no burr. Let the side of the stone run past the tip, but do not go past the middle of the stone. This will keep the stone from rounding the tip. Proceed to the stone you are using to finish the edge.

Remove the burr

Remove the scissors from the clamp. Turn the flat side of the blade up. Place your 1000 stone flat on the inside of the blade. Freehand, slide the stone back and forth, as you work your way down the blade. Check to see that the burr is gone. If not make another pass with the 1000. Now repeat on the other blade.

Finishing steps

If you took the scissors apart to sharpen them, reassemble the scissors. You must re-establish the (RIDE) or bearing surface on the blades before you close them. Separate the blades with your fingers as you close the scissors so the blades do not touch. Put some pressure on the blades and slide the scissors open. Do this 2 or 3 times. Close the scissors very slowly the first time to make sure the blades are not going to catch. If they do catch, repeat the procedure, and try again.

Hair Shears

Before you begin, inspect the closed blades to make sure they cross at the tips. If they don't, you are going to have to bend the handles to get the tips to cross. Grasp the closed blades with one hand. Place your index finger through one hand loop. Press on the handle stem with you thumbs. Be careful, some scissors bend very easily and others very hard. (You can't bend Joewell Shears).

Take the Scissors apart. Inspect the inside of the blades. If it looks like they have been sharpened on the inside of the blade the scissors are ruined and must be replaced.

Put a straight edge on the inside of the blade and hold them up to a light. The blade must have a continuous curve from the pivot to the tip. If they do not, the scissors are bent and need to be straightened. Call Edge Pro for detailed instructions.

Hair Shear Instructions:

Back out the CLAMP BAR LOCK KNOB until the BAR is loose. Adjust the CLAMP BAR ALLEN SCREW so the scissor blade will slip behind the CLAMP BAR. Clamp the scissor blade in place with the edge just above the BACKING PLATE. Put the pointed STOP BAR at the

tip of the blade, and the flat stop bar underneath the pivot end of the scissor. Use this as an index for taking the blade in and out.

Set the angle the same as on regular scissors. If they they have a convex edge you need to set the EP to 40 degrees to start. This is detailed in the video. Most hair shears are sharpened at 42 degrees, so this starts the bevel just behind the edge. Then you slowly lower the stone as you work your way to the edge and the final sharpening angle.

Start with a 400 on dull shears and 600 on shears in good shape. Proceed to the 1000 and then the Polish Tapes.

Remove the burr (Hair Shears)

When you finish with 2000 tape take the scissor blade out. Rest the STONE ARM STOP on the end of the BLADE TABLE with the tape facing up. Set the the pivot end of the blade at the far end of the tape with the flat side down and the edge of the scissor blade facing away you. With even down pressure on the blade, draw the blade toward you and slide the blade across the tape to the tip of the blade. Make 2 or 3 passes. Put the blade back in the SCA and polish with the 3000 and remove the burr again. Finally polish with the 6000 and remove the burr for the last time. Test the blade. It should easily shave hair on your arm. You should feel the blade catch the hair even before it cuts. If it will not cut, lower the PIVOT 1/32" and run through the polish tapes again. If the bevel is wide sometimes the tapes are not cutting all the way into the edge. If it still will not cut you need to go back and take more metal off the blade. When you are learning you will have a tendency to take off too little metal. It is also possible to feel some burr before you are all the way to the edge. Sharpen the second blade. Then proceed to finishing steps page 4.

SHARPENING CHISELS AND PLAIN BLADES

Remove the CLAMP BAR and the CLAMP BAR LOCK SCREW. Remove the STOP BARS. Place the CLAMP BAR across the BACKING PLATE. The two holes in the CLAMP BAR line up with the holes for the STOP BAR SCREWS. Put the two 10/24 by 1" screws included in the kit, through the holes, and attach the CLAMP BAR to the BACKING PLATE.

Slide the chisel or plain blade under the clamp. Let the plain blade stick up about ¼" and chisel about 1" above the BACKING PLATE.

Set the sharpening angle with a felt tip marker. Set the KNIFE PIVOT at Red and do your basic setting by moving the BACKING PLATE. Then do your fine adjustments with the KNIFE PIVOT.

Sharpen until you get a burr. Progress to the stone or polish tape you are going to use for finish. I finish chisels in the SCA so I can make several passes on each side of the edge to remove the burr. Remove plain blades and lay a stone or tape on the flat side. Keep the stone or tape flat as you move it back and forth to remove the burr. You can also use a flat stone for this job. Use a fine round ceramic to remove the burr on gouges.

