

A.S.D. Instructions

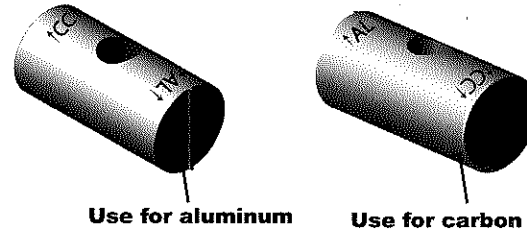
Why This Tool?

The purpose of this tool is to provide the avid archer with a convenient and precise means for truing the face of the arrow shaft or of the insert after assembly to the shaft without the need for expensive shop equipment.

-Cutter Selection-

There are two cutting surfaces from which to select:

- Type AL (shown on the left) –
 - for use on aluminum
 - distinguished by the raised boss with dual cutting edges on the cutting face.
- Type CC (shown on the right) –
 - for use on carbon, carbon composite, and carbon/aluminum, materials
 - distinguished by the sparkle and abrasive feel of the cutting face. The A.S.D. using the Type CC cutter is well suited for squaring the Easton ST Axis or similar type arrow shafts.



-How to Use It-

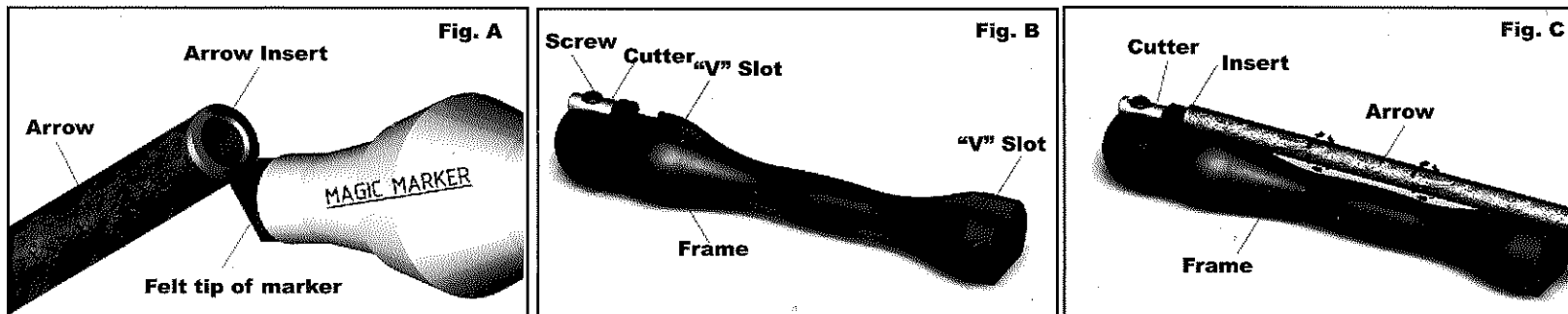
1. Place the tool on a flat surface with the end containing the cutter to the operator's left.
2. Using magic marker, toolmaker's bluing, or similar materials, completely cover the surface to be machined. See Fig. A.
3. With this surface toward the cutter, place the shaft of the arrow in the two "V" slots. See Fig. B.
4. Maintain contact between the surface being machined and the cutter by applying pressure in the direction along the axis of the shaft of the arrow and parallel to the base of the tool.
5. While maintaining the contact as described in step 4 above, rotate the shaft away from your body (clockwise direction when viewed from the end of the tool opposite the cutter), being careful to maintain sufficient downward pressure to retain the shaft in the "V" slots. See Fig. C.
6. Rotate the shaft, as described in step 5, 360 degrees to ensure that the full surface being machined has had contact with the cutter.
7. Remove the arrow from tool and examine the machined surface for any bluing remaining or for chatter marks.
8. If no bluing remains and there are no chatter marks, you have successfully completed the task.
 - If some bluing remains, repeat steps 3 through 7 until all evidence of bluing is removed.
 - If chatter is a problem, repeat steps 3 through 7 using less axial pressure.

Note: For you left-handed archers, it may be more convenient to position the tool with the cutter to your right. The only difference will be that, in step 5 above, you will rotate the shaft toward your body.

-What to Expect-

In the process of assembling the insert to the shaft, many factors can contribute to runout on the face of the insert relative to the axis of the shaft. A small amount of runout on this face is greatly magnified at the tip of the broadhead, somewhere in the neighborhood of 10:1. As a result, the precision of the flight of the arrow is compromised.

Proper use of the G5 truing tool can diminish the runout of the insert face to insignificance thereby enhancing the precision of your arrows.



Protected under pending patents.

INSTRUCTIONS

USING THE SHARPENER (REFER TO FIG. A & B)

- 1) GRASP THE HANDLE WITH THE LEFT HAND. THIS POSITIONS THE CARBIDE ELEMENTS AWAY FROM YOU.
- 2) PLACE THE EDGE TO BE SHARPENED IN THE "V" FORMED BY THE CARBIDE ELEMENTS.
- 3) APPLYING A LIGHT DOWNWARD FORCE (2-4 LBS), DRAW THE INSTRUMENT TOWARD YOU FOR THE FULL LENGTH OF THE EDGE BEING SHARPENED, MAINTAINING THE BLADE IN A VERTICAL POSITION. (IT IS BETTER TO USE SEVERAL LIGHT STROKES THAN A FEW HEAVY STROKES TO ACCOMPLISH THE TASK OF SHARPENING.)
- 4) REPEAT STEP 3 SEVERAL TIMES UNTIL THE SHARPNESS IS SATISFACTORY. THE NUMBER OF STROKES REQUIRED WILL VARY DEPENDING ON THE ORIGINAL CONDITION.

ADJUSTING THE CARBIDE ELEMENTS (REFER TO FIG. C)

- 1) MARK THE LOCATION OF THE BOTTOM OF THE "V" ON BOTH CARBIDE ELEMENTS AS A REFERENCE.
- 2) LOOSEN EITHER ONE OR BOTH SOCKET SCREWS RETAINING THE CARBIDE ELEMENTS USING A 5/64" HEX WRENCH.
- 3) SLIDE EITHER ONE OR BOTH ELEMENTS ALONG THE LOCATING BOSSES UNTIL A NEW "V" IS FORMED USING MARKS FROM STEP 1 AS A REFERENCE.
- 4) TIGHTEN THE RETAINING SCREWS WITH THE ELEMENTS IN THE NEW POSITION.

ROTATING THE CARBIDE ELEMENTS (REFER TO FIG. D)

(FRESH CARBIDE SHARPENING EDGES CAN BE ACHIEVED INITIALLY BY ADJUSTING THE CARBIDE ELEMENTS AND ULTIMATELY BY ROTATING THE ELEMENTS FOR COMPLETELY NEW EDGES.) THIS IS HOW WE ACHIEVE 6X LIFE OF COMPARABLE PRODUCTS.

- 1) IDENTIFY THE "USED" EDGES AND THE OUTER SURFACES OF THE CARBIDE ELEMENTS IN RELATION TO THEIR ORIGINAL POSITION ON THE SHARPENER. (THIS IS NECESSARY IN ORDER TO MAINTAIN THE PROPER RELATIONSHIP OF THE RELIEF ANGLES ON THE GROUND EDGES OF BOTH CARBIDE ELEMENTS. OTHERWISE, THE SHARPENER WILL NOT WORK PROPERLY.)
- 2) REMOVE THE RETAINING SCREWS AND CAREFULLY REMOVE THE ELEMENTS FROM THEIR BOSSES RETAINING THE IDENTIFICATION FROM STEP 1.
- 3) ROTATE BOTH ELEMENTS 180° SO THAT THE "NEW" EDGES FORM THE "V".
- 4) POSITION THE ELEMENTS ON THEIR BOSSES, ENSURING THAT THE OUTER SURFACES OF THE ELEMENTS ARE IN THEIR ORIGINAL POSITION IN RELATION TO THE SHARPENER.
- 5) ADJUST THE LOCATION OF THE "V" TO YOUR SATISFACTION, AND TIGHTEN THE RETAINING SCREWS.

FIG. A
MONTEC BROADHEAD

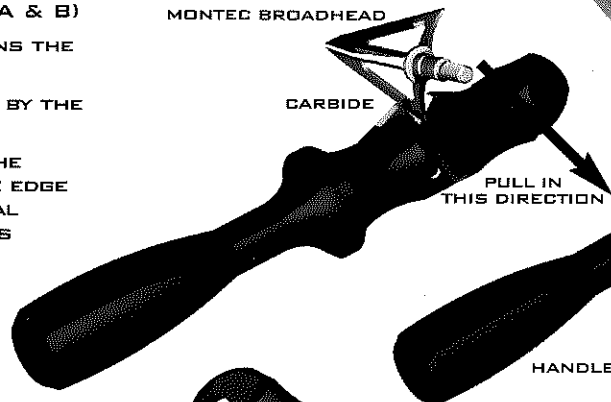


FIG. B
KNIFE

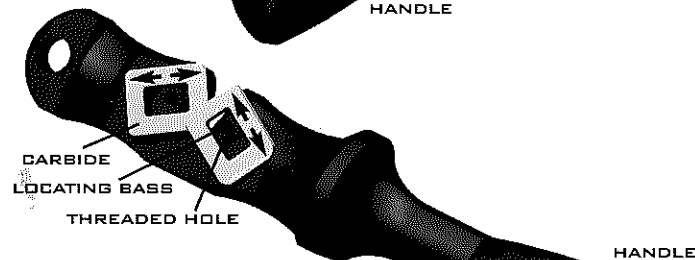
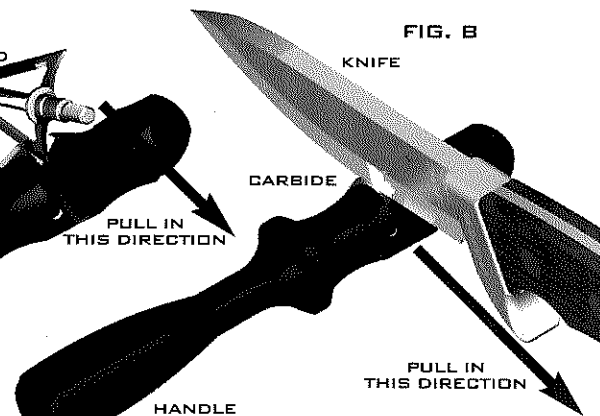


FIG. C

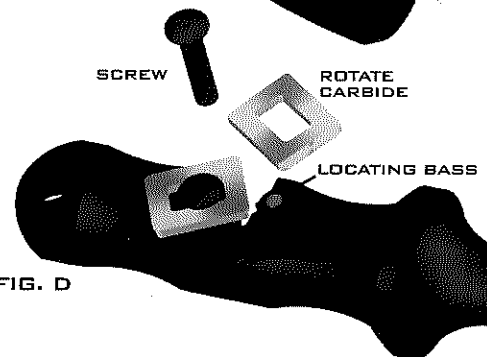


FIG. D

FOR MORE INFO PLEASE VISIT OUR WEBSITE AT
WWW.G5OUTDOORS.COM OR CALL US TOLL FREE AT
1-866-456-8836.



NOTICE

*BROADHEADS, KNIVES, AND OTHER CUTTING UTENSILS, BEFORE AND AFTER RESHARPENING, ARE SHARP AND MUST BE HANDLED WITH EXTREME CARE AND CAUTION. G5 OUTDOORS L.L.C. WILL NOT TAKE RESPONSIBILITY FOR ANY INJURY CAUSED BY, OR IN ASSOCIATION, WITH THE SPORTSMAN SHARPENER.

PROTECTED UNDER PATENT #6,817,269

Instructions for Re-Sharpening the MONTEC™ Broadhead.

Montec broadheads will dull with use. To reduce the need to re-sharpen, use the Montec Pre-Season for practice. To avoid extensive re-sharpening, don't let your Montec get too dull. To bring the Montec back to razor edge status follow the steps below. If you have problems achieving your desired level of sharpness, view our website videos/instructions at www.g5outdoors.com or call toll free (866) 456-8836 for more in-depth instructions.

Note: Place the carrying case, a towel, or newspaper between the diamond stone and the surface, i.e. table or counter top, to protect from scratching.)

Step 1 With a broad felt tip marking pen (e.g. Magic Marker), cover all six cutting surfaces to be sharpened with ink. See Fig. A.

Step 2 With the diamond surface marked "ROUGH-600" facing up, place the Flat Diamond Stone on a flat surface (i.e. table or counter top). DO NOT PLACE SHARPENER IN HANDS, ON LAP OR ANY OTHER BODY PART.

Step 3 "PLACE" the broadhead flat on the diamond surfaces with the nose pointing away from you. See Fig. B.

Step 4 Keeping the two surfaces being sharpened in full contact with the diamond surface, apply MODERATE TO HEAVY downward pressure and push the broadhead from side to side across the stone as indicated by the arrows in Fig C. Continue until all traces of ink are removed from the surfaces being sharpened.

Step 5 Rotate the broadhead 120 degrees to the next set of blade surfaces and repeat Steps 3 & 4.

Step 6 Repeat Step 5 for the remaining set of blade surfaces.

Step 7 As shown in Fig. C, place the first set of blade surfaces flat on the diamond surface with the nose or tip facing away from you.

Step 8 Keeping the two surfaces in full contact with the diamond surface, apply VERY LIGHT downward pressure on the broadhead and push the broadhead across the stone from side to side as shown in Fig. D. Repeat this side to side motion 3 to 12 times.

Step 9 Rotate the broadhead 120 degrees to the next set of blade surfaces and repeat Step 8 until edges achieve desired sharpness.

Step 10 Repeat step 9 for the remaining set of blade surfaces.

Step 11 OPTIONAL FOR THOSE WHO DESIRE THE ULTIMATE SHARPNESS
Flip the stone over so that the side marked "HONE-1200" is facing up. Repeat steps 7 thru 9, until all cutting edges become razor sharp.

HOW SHARP IS SHARP?

*If you can slice through a stretched rubber band in one pass – very sharp and very functional.

*If you can shave the hair on your arm – extremely sharp – be very careful.



Notice: Broadheads, before and after resharpening, are sharp and must be handled with extreme care and caution.

*G5 Outdoors L.L.C. will not take responsibility for any injury caused by, or in association, with the Flat Diamond Stone.

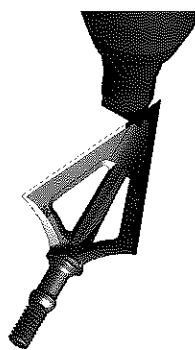


Fig. A

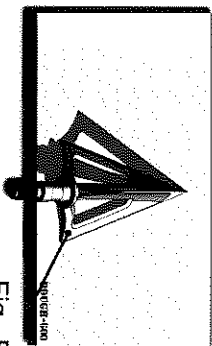


Fig. B

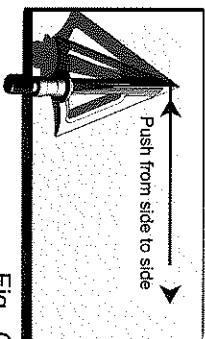


Fig. C

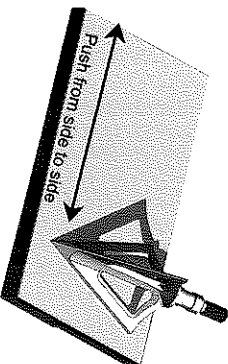


Fig. D