Alpha®
Beveling Auxiliary Base
Instruction Manual

Part No: BAB1590
Version 2

Alpha Professional Tools®
103 Bauer Drive, Oakland, NJ 07436 • 800-648-7229 • Fax: 800-286-0114
www.alpha-tools.com
TABLE OF CONTENTS

Introduction ...................................................................................................................................3
   About The Symbols ..................................................................................................................3
   Precautions For Using Beveling Auxiliary Base .................................................................3

Alpha® Beveling Auxiliary Base Overview for 15~45° Angle ..................................................4
   Specifications ..........................................................................................................................4

Alpha® Beveling Auxiliary Base Overview for 90° Angle .......................................................5
   Features ....................................................................................................................................5

Accessories ..................................................................................................................................6
   Components .............................................................................................................................6

Attaching Clamping Base For 15-45° Angle ............................................................................7

Attaching Clamping Base For 90° Angle ..................................................................................7

Attaching The Universal Adapter ..............................................................................................9

Attaching Grinder/Polisher To Main Base ................................................................................10

Installing Grinder/Polisher Accessories ..................................................................................11

Attaching Beveling Base To Workpiece ...................................................................................11

Bevel Grinding/Polishing (15- 45°) ........................................................................................13

Straight Edge Grinding (90°) Using “Straight Edge Guide” ....................................................14

Straight Edge Polishing (90°) Using “Straight Edge Guide” ....................................................15

Straight Edge Preparation for Seamless Countertops (90°) ....................................................16

Alpha® Beveling Auxiliary Base Schematic ............................................................................17

Alpha® Beveling Auxiliary Base Parts List .............................................................................18

Appendix .....................................................................................................................................19
INTRODUCTION

Thank you for purchasing the Alpha® Beveling Auxiliary Base. To ensure correct use, read this Instruction Manual and the Instruction Manual for the power tool and follow the operating instructions. Keep this manual in a place where operators can access it easily whenever necessary!

➤ ABOUT THE SYMBOLS

According to the hazard level, all safety notes in this manual are classified into “DANGER”, “WARNING”, and “CAUTION”.

⚠️ DANGER! Death or serious personal injury is imminent when handling this polisher incorrectly.

⚠️ WARNING! There is a possibility of death or serious personal injury when handling this polisher incorrectly.

⚠️ CAUTION! There is a possibility of personal injury or property damage when handling this polisher incorrectly.

Note: In some situations, failing to observe WARNING notes could result in death or serious personal injury. Be sure to read and observe the safety notes to ensure safety and correct use of the beveling base.

➤ PRECAUTIONS FOR USING BEVELING AUXILIARY BASE

Although the rollers for the base are made of nylon, it is possible that they may cause minor scratches on the surface of granite. To prevent that from occurring, we recommend that the polished surface be covered with masking tape before using this product.
**SPECIFICATIONS**

- **Beveling Angle**: 15 ~ 45°
- **Beveling Depth**: 3/8" (10mm Max)
- **Straight Angle**: 90°
- **Max. Pad Size**: 4" (100mm)
- **Spindle**: 5/8"-11
- **Weight**: 3.57 lbs. (1.62 kgs)
ALPHA® BEVELING AUXILIARY BASE OVERVIEW

(CLAMPING BASE FOR 90° ANGLE)

FEATURES

- Simple Operation
- Perfect Finishing
- Time Saving
- Adjust the desirable bevel angle from 15 ~ 45°
- Adjust the beveling depth from 0.1~10 mm
- Micrometric scale to calibrate the chamfering depth
- 8 rolling wheels to facilitate moving.
- Designed to fit various sanders/polishers/grinders, simply by changing the clamp.
- Quickly change the abrasive / polishing pad while working.
ACCESSORIES

COMPONENTS

1. Universal Adapter Assembly ................................................................. 1 set
2. Clamping Base for 15~45° Angle .......................................................... 1 pc
3. Screws ................................................................................................. 2 pcs
4. Clamping Base for 90° Angle ............................................................... 1 pc
5. Water Hose ........................................................................................... 1 pc
6. Water Valve ......................................................................................... 1 pc
7. Water Hose Assembly (3M) ................................................................. 1 set
8. Hex. Wrench (5mm) ............................................................................ 1 pc
9. Spanner ............................................................................................... 1 pc
ATTACHING CLAMPING BASE FOR 15~45° ANGLE

1. Remove Support Assy. and two screws.

ATTACHING CLAMPING BASE FOR 90° ANGLE

Support Assy.

Figure-4

Figure-5
2. Set to 45°.

3. Attach 90° Clamping Base to Main Base.
ATTACHING THE UNIVERSAL ADAPTER

1. Attach to Clamping base for 15~45° Angle.

2. Attach to Clamping base for 90° Angle.
ATTACHING GRINDER/POLISHER TO MAIN BASE

1. Push Spindle Lock and turn Spindle of the Universal Adapter.

2. Tighten using Spanner.
1. Push the spindle lock and install the grinding or polishing accessory, then tighten it using the wrench.

2. Place the beveling auxiliary base with grinder/polisher on the edge of the stone slab and push the Guide Support against the stone while the Guide Support is secured to the base.

2. Loosen up the Fixing Bolt to make the grinding wheel cutting depth adjustment available.
3. Turn the Adjustment Knob counterclockwise to lower the wheel until the wheel is lightly touching the corner of the stone.

4. Loosen up the Fixing Bolt on the Angular Measure then set the indicator to point “0”, next secure the Angular Measure by tightening up the Fixing Bolt.

5. Turn the Adjustment Knob to lower to the desired cutting depth (5mm shown in Figure 15). Next secure the wheel position by tightening up the Fixing Bolt. It is now ready for the grinding application.

**REMARKS**

When you start grinding the corner, the Guide Support is not touching the edge of stone. When you reached to the desired depth of grinding, the Guide Support touches against the edge of the stone and works as a stopper to create a uniform width of beveled edge.
BEVEL GRINDING/POLISHING (15- 45°)

1. Attach the Turboshine Grinding Wheel, 60 grit (Part # TSV30060M) to the Universal Adapter. When attaching the grinding wheel make sure that the grinding wheel does not make contact to the main base of the BAB1590.

2. Adjust the Beveling Auxiliary Base to the desired angle to be performed.

3. Start grinding the edge of the material by moving the Beveling Auxiliary Base across the material in back and forth motions. Make sure that the Guide Support keeps in contact with the edge of the material to create a consistent width across the edge of the material.

4. When the desired thickness bevel has been created, the grinding process is complete.

5. Attach the Turboshine Dual Adapter to the Universal Adapter.

6. Attach either the #100 grit or #200 grit Turboshine (Rigid) to the Dual Adapter. Operator will choose which grit will work best for the application based on operator’s experience.

7. Move the Beveling Auxiliary Base across the material in back and forth motions making sure that the Guide Support keeps in contact with the edge of material during polishing.

8. Continue the polishing process using the remaining grits of the Turboshine System.

► HELPFUL HINT:

- When the work piece requires a bevel polish and straight polish on the same edge, perform the bevel polish first before polishing the straight edge.

- Securing “dummy” pieces of stone on both ends of the work piece will assist the operator to achieve a successful polish to the end of the stones edge. Once the operator becomes experienced using the Beveling Auxiliary Base, they may choose not to add the “dummy” stones.

► SURFACE PROTECTION:

- To eliminate any potential scratching on the surface of the material you are grinding/polishing, we recommend placing “Surface Protection” on the surface of the material. Surface protection will protect the top surface from any possible scratches when the roller wheels of the Beveling Auxiliary Base rolls across the surface. Flat plastic sheets are good examples of surface protection for this application.
STRAIGHT EDGE GRINDING (90°) USING “STRAIGHT EDGE GUIDE”

1. Attach the Turboshine Grinding Wheel, 60 grit (Part # TSV30060M). When attaching the grinding wheel make sure that the grinding wheel does not make contact to the main base of the BAB1590

2. Lay the straight edge guide parallel to the edge of the material.

3. Determine the distance of the straight edge guide from the edge of material, measure the distance from the grinding wheel’s surface to the back of the main base.

4. After the distance of the straight edge guide has been determined, secure it using clamps. (See Fig. 18 & 19 on page 14)

5. Move the Beveling Auxiliary Base across the material in back and forth motions

6. until the Main Base makes flush contact with the straight edge guide.

NOTE: Grinding of the material is complete when the operator no longer hears a grinding noise.
STRAIGHT EDGE POLISHING (90°) USING A “STRAIGHT EDGE GUIDE”

1. Attach the Turboshine Dual Adapter to the Universal Adapter.

2. Attach either the #100 grit or #200 grit Turboshine (Rigid) to the Dual Adapter. Operator will choose which grit will work best for the application based on operator’s experience.

3. Lay the straight edge guide parallel to the edge of the material.

4. Determine the distance of the straight edge guide from the edge of material, measure the distance from the polishing wheel’s surface to the back of the main base.

5. After the distance of the straight edge guide has been determined, secure it using clamps. (See Fig. 18 & 19 on page 14)

6. Move the Beveling Auxiliary Base across the material in back and forth motions making sure that the Main Base keeps in contact with the straight edge guide during polishing.

7. Continue the polishing process using the remaining grits of the Turboshine System.

*NOTE: Operator can remove the straight edge guide after the #200 grit since the remaining grits are not aggressive enough to alter the stones straightness.*

► HELPFUL HINT:

1. When the work piece requires a bevel polish and straight polish on the same edge, perform the bevel polish first before polishing the straight edge.

2. Securing “dummy” pieces of stone on both ends of the work piece will assist the operator to achieve a successful polish to the end of the stones edge. Once the operator becomes experienced using the Beveling Auxiliary Base, they may choose not to add the “dummy” stones.

3. Using the straight edge guide is optional, operator may choose not to use the straight edge guide based on their experience.

4. Straight Edge Guide can be used for calibrating the stone if the bridge saw cut is not a true 90° angle.

STRAIGHT EDGE PREPARATION (90°) FOR SEAMLESS COUNTERTOPS

1. Attach the Turboshine Dual Adapter to the Universal Adapter.

2. Attach either the #100 grit or #200 grit Turboshine (Rigid) to the Dual Adapter. Operator will choose which grit will work best for the application based on the operator’s experience.

3. Lay the straight edge guide parallel to the edge of the material.
STRaight EDGE PREPARATION (90°) FOR SEAMLESS COUNTERTOPS (Cont’d)

4. Determine the distance of the straight edge guide from the edge of material, measure the distance from the Turboshine wheel’s surface to the back of the main base.

5. After the distance of the straight edge guide has been determined, secure it using clamps. (See Fig. 18 & 19 on page 14)

6. Move the Beveling Auxiliary Base across the material in back and forth motions making sure that the Main Base keeps in contact with the straight edge guide during polishing.

7. Continue the seamless preparation up the #500 grit Turboshine to complete the edge preparation for seamless countertops.

► Helpful Hint:
To create a seamless countertop, you will need to butt joint the stones. Prior to applying the adhesive to secure both pieces together a groove needs to be created. This groove provides an area for the adhesive to adhere in each stone to create a strong bond necessary for the perfect seamless countertop. The Alpha® Groove Cutter is the perfect item to create these grooves. Our patented design assures the grooves will be level to achieve maximum strength at each joint. The Groove Cutter works with the most popular high-speed angle grinders available on the market. A universal safety guard equipped with a water-feed and a Ground Fault Circuit Interrupter are the perfect accessories for this application and are available from Alpha®. For more information or to view an instructional video, visit us on the web at www.alpha-tools.com.
<table>
<thead>
<tr>
<th>DRAWING NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>150001</td>
<td>Main Base</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>150002</td>
<td>Rolling Wheel</td>
<td>8</td>
</tr>
<tr>
<td>3</td>
<td>150003</td>
<td>Screw A01A10101</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>150004</td>
<td>Handle</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>150005</td>
<td>Pin P001</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>150006</td>
<td>Gliding Pin</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>150007</td>
<td>Hex. Screw CAP021</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>150008</td>
<td>Lift Base</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>150009</td>
<td>Screw A01A30100</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>150010</td>
<td>Hex. Screw CAP042</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>150011</td>
<td>Spring S064</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>150012</td>
<td>Gliding Spacer</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>150013</td>
<td>Guide Rail</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>150014</td>
<td>Washer T10X16X1.5</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>150015</td>
<td>Angular Measure</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>150016</td>
<td>Fixing Bolt</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>150017</td>
<td>Spring S074</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>150018</td>
<td>Bolt Base Assy.</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>150019</td>
<td>Screw MT005</td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>150020</td>
<td>Bolt Assy.</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>150021</td>
<td>Spring Pin</td>
<td>1</td>
</tr>
<tr>
<td>22</td>
<td>150022</td>
<td>Indicator</td>
<td>1</td>
</tr>
<tr>
<td>23</td>
<td>150023</td>
<td>Screw MC006</td>
<td>1</td>
</tr>
<tr>
<td>24</td>
<td>150024</td>
<td>Screw MP6X14</td>
<td>3</td>
</tr>
<tr>
<td>25</td>
<td>150025</td>
<td>Fixing Screw</td>
<td>2</td>
</tr>
<tr>
<td>26</td>
<td>150026</td>
<td>Spring S070</td>
<td>1</td>
</tr>
<tr>
<td>27</td>
<td>150027</td>
<td>Steel Ball</td>
<td>1</td>
</tr>
<tr>
<td>28</td>
<td>150028</td>
<td>Angular Table</td>
<td>1</td>
</tr>
<tr>
<td>29</td>
<td>150029</td>
<td>Screw MT008</td>
<td>2</td>
</tr>
<tr>
<td>30</td>
<td>150030</td>
<td>Screw MT009</td>
<td>1</td>
</tr>
<tr>
<td>31</td>
<td>150031</td>
<td>Washer T6.5X13</td>
<td>1</td>
</tr>
<tr>
<td>32</td>
<td>150032</td>
<td>Clamping Lever</td>
<td>1</td>
</tr>
<tr>
<td>33</td>
<td>150033</td>
<td>Support Assy.</td>
<td>1</td>
</tr>
<tr>
<td>35</td>
<td>150036</td>
<td>Water Hose</td>
<td>1</td>
</tr>
<tr>
<td>36</td>
<td>150037</td>
<td>Water Valve Assy.</td>
<td>1</td>
</tr>
</tbody>
</table>
# ALPHA® BEVELING AUXILIARY BASE PARTS LIST

<table>
<thead>
<tr>
<th>DRAWING NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>37</td>
<td>150038</td>
<td>Water Hose (3M)</td>
<td>1</td>
</tr>
<tr>
<td>38</td>
<td>150039</td>
<td>Coupling Assy.</td>
<td>1</td>
</tr>
<tr>
<td>39</td>
<td>150040</td>
<td>Bearing Nut</td>
<td>1</td>
</tr>
<tr>
<td>40</td>
<td>150041</td>
<td>Bearing Housing</td>
<td>1</td>
</tr>
<tr>
<td>41</td>
<td>150042</td>
<td>Ball Bearing (B6004LLU)</td>
<td>2</td>
</tr>
<tr>
<td>42</td>
<td>150043</td>
<td>Main Shaft (5/8”-11 UNC)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>*Other sizes available upon request</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>150044</td>
<td>Bearing Housing Cover</td>
<td>1</td>
</tr>
<tr>
<td>44</td>
<td>150045</td>
<td>Screw MT011</td>
<td>3</td>
</tr>
<tr>
<td>45</td>
<td>150046</td>
<td>Bracket</td>
<td>1</td>
</tr>
<tr>
<td>46</td>
<td>150047</td>
<td>Hex. Screw CAP044</td>
<td>2</td>
</tr>
<tr>
<td>47</td>
<td>150048</td>
<td>Screw with Knob</td>
<td>1</td>
</tr>
<tr>
<td>48</td>
<td>150049</td>
<td>Stopper</td>
<td>1</td>
</tr>
<tr>
<td>49</td>
<td>150050</td>
<td>Hex. Wrench 5mm</td>
<td>1</td>
</tr>
<tr>
<td>50</td>
<td>150051</td>
<td>Spanner Wrench</td>
<td>1</td>
</tr>
<tr>
<td>51</td>
<td>150053</td>
<td>Guide Bar</td>
<td>1</td>
</tr>
<tr>
<td>52</td>
<td>150054</td>
<td>Screw</td>
<td>2</td>
</tr>
<tr>
<td>34-a</td>
<td>150034</td>
<td>Clamping Base for 45° Angle</td>
<td>1</td>
</tr>
<tr>
<td>34-b</td>
<td>150035</td>
<td>Clamping Base for 90° Angle</td>
<td>1</td>
</tr>
<tr>
<td>Not Shown</td>
<td>150052</td>
<td>Builder’s Plate</td>
<td>1</td>
</tr>
</tbody>
</table>

## APPENDIX

**NOTE:** During the 90° Straight Edge Grinding/Polishing applications, water spray can be contained by attaching the Alpha® Splash Guard (Part # 210089*) on the Beveling Auxiliary Base.  *Splash Guard Sold Separately*

---

**Without Splash Guard**

![Figure-23](image)

**Splash Guard Attached**

![Figure-24](image)

---

19