TRU HONE®

OPERATING INSTRUCTIONS

...ends the "Stone Age" of Knife Sharpening

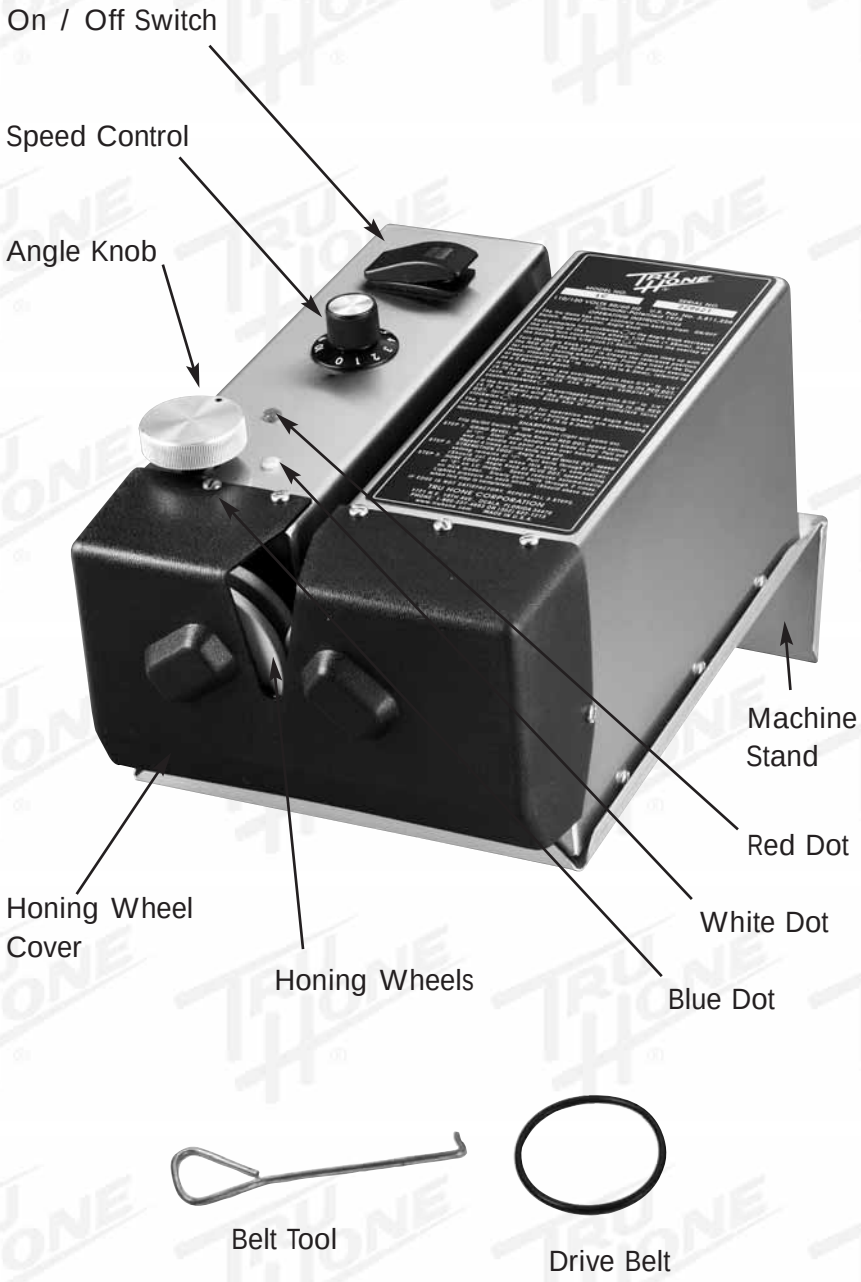

FIGURE 1. TRU HONE CONTROLS

TRU HONE OPERATING INSTRUCTIONS

The Tru Hone Knife Sharpener does a professional job of sharpening knives. By following the outlined instructions, knives will be sharpened to meet your professional standards.

The Tru Hone comes completely assembled and ready to use. Place the machine on the stainless steel stand (see fig. 1) and familiarize yourself with the following operating instructions. The machine should be approximately 36 to 40 inches (91 to 101 cm) above floor level.

CONTROLS

There are three controls on the Tru Hone (see fig. 1).

1. On/Off Switch
2. Speed Control
3. Angle Knob

HONING WHEEL/BEVEL ADJUSTMENT

(Do prior to using machine)

The Tru Hone is capable of approximately 10 bevel/angle settings with a new set of honing wheels. Each turn clockwise ↻ of the Angle Knob decreases the overlap of the honing wheels 1/16 inch(1.6mm). Each complete turn counterclockwise ↺ increases the overlap of the honing wheels 1/16 inch(1.6mm).

Turn the Angle Knob so that the indicator mark lines up with the Red Dot (see fig. 2). The Red Dot is always the reference position for setting the honing wheel overlap. From the front of the Tru Hone, visually check the honing wheels for the proper overlap of approximately 3/16" to 1/4" (4.75 to 6.3 mm), referred to as a 3 Bevel or 4 Bevel (see fig. 3).

Figure 2

Figure 3

If the honing wheels are not overlapped approximately 3/16" to 1/4" (4.75 to 6.3mm) with the Angle Knob pointing to the Red Dot, use the following steps to set the honing wheel overlap.

Turn the Angle Knob so that the indicator mark lines up with the Red Dot (see fig. 2). Turn the Angle Knob one complete turn clockwise ↻ and stop at the Red Dot. Visually check the honing wheels for no overlap (slight separation). If the honing wheels are still overlapped with the Angle Knob pointing to the Red Dot, repeat the previous step until the honing wheels are not overlapped with the Angle Knob pointing to the Red Dot (see fig. 4).

With the Angle Knob pointing to the Red Dot and the honing wheels slightly separated, this is referred to as the 0 Bevel. The 0 Bevel is the starting position for setting the honing wheel/bevel adjustment. From the 0 Bevel, turn the Angle Knob one complete turn counterclockwise ↺ and stop at the Red Dot. The honing wheels are overlapped approximately 1/16" (1.6mm). This is referred to as the 1 Bevel (see fig. 5).

From the 1 Bevel, turn the Angle Knob one complete turn counterclockwise ↺ and stop at the Red Dot. The honing wheels are overlapped approximately 1/8" (3.2mm). This is referred to as the 2 Bevel.

From the 2 Bevel, turn the Angle Knob one complete turn counterclockwise ↺ and stop at the Red Dot. The honing wheels are overlapped approximately 3/16" (4.75mm). This is referred to as the 3 Bevel.

From the 3 Bevel, turn the Angle Knob one complete turn counterclockwise ↺ and stop at the Red Dot. The honing wheels are overlapped approximately 1/4" (6.3mm). This is referred to as the 4 Bevel (see fig. 3).

For most knives used in meat, poultry or fish cutting operations, the 3 or 4 Bevel position (3/16" to 1/4" overlap) (4.75 to 6.3mm) is used (see fig. 3).

Figure 4

Figure 5

Seldom are the 1 or 2 Bevel positions used for sharpening with the exception of some skinning and fillet knives.

For some blades such as cleavers or chopper blades, a higher number bevel position may be best such as a 5 or 6. Turn the Angle Knob counterclockwise ↺ the appropriate number of turns for the desired bevel position.

BEVEL	OVERLAP	ANGLE
1	1/16" (1.6mm)	20°
2	1/8" (3.2mm)	25°
3	3/16" (4.75mm)	30°
4	1/4" (6.3mm)	35°
5	5/16" (7.9mm)	40°
6	3/8" (9.5mm)	45°
7	7/16" (11.1mm)	50°
8	1/2" (12.7mm)	55°
9	9/16" (14.3mm)	60°
10	5/8" (15.8mm)	65°

TECHNIQUES OF KNIFE SHARPENING

With the machine still in the OFF position, familiarize yourself with "getting-the-feel-of-sharpening" by going through the next three steps several times.

1. Place the knife in the knife slot with the handle near or touching the front of the honing wheel cover (see fig. 6).

2. Starting with a light pressure, draw the knife edge steadily across the honing wheels at a smooth rate, approximately 1 to 3 seconds, depending on the length of the knife blade. Maintain a firm and constant pressure on the honing wheels as the knife is being drawn across them. Make sure the knife edge is always in contact with all four honing wheels (see fig. 7,8, & 9).

3. In order to properly sharpen the blade tip, raise the knife handle as the tip passes over the honing wheels and follow the curve of the blade (see fig. 10).

Figure 6

HOW TO HOLD KNIFE FOR PROPER SHARPENING

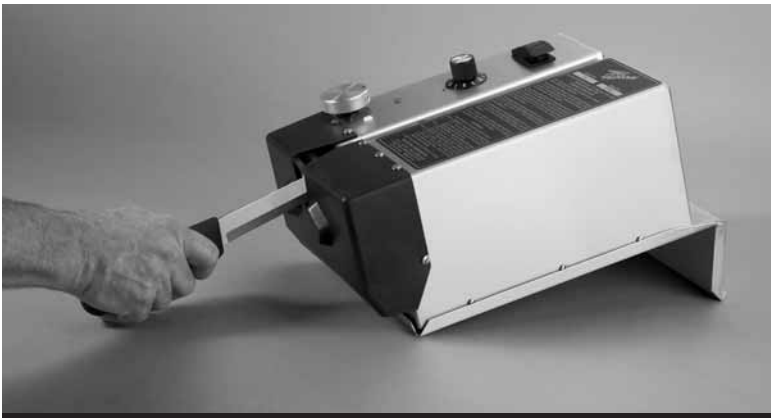

Figure 7

Fig. 7 WRONG (Handle too low)

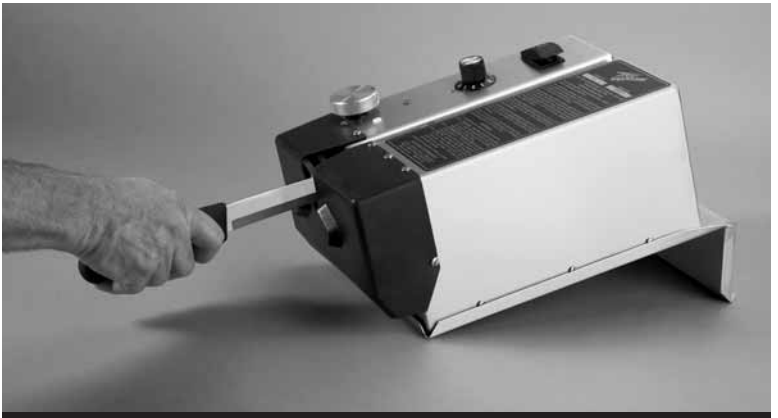

Figure 8

Fig. 8 CORRECT

DO NOT begin sharpening with the knife handle held high or low. This will cause uneven knife bevels and uneven honing wheel wear.

Figure 9

Fig. 9 CORRECT (May be guided with both hands)

Figure 10

Fig. 10 CORRECT FOR TIP
(Handle is raised as tip passes over the honing wheels)

SHARPENING

Before sharpening a knife, be sure you are familiar with the previous instructions.

Press the On/Off Switch to the ON position (the light will come on).

STEP 1 *GRINDING THE BEVEL (RED DOT)*

Turn the Angle Knob so that the indicator mark lines up with the Red Dot, 3 or 4 Bevel position (3/16" to 1/4") (4.75 to 6.3mm) wheel overlap, Speed Control setting "7" (see fig. 11). For longer knives over 6" (15.2 cm) you may increase the speed above "7" and for smaller knives you may decrease the speed below "7". Start at the handle with the blade in the slot. At a constant speed and light pressure, draw the knife across the honing wheels and raise the handle as the tip approaches the honing wheels. Repeat 4 times or more until the knife is sharp. It is important to have a completely new edge before going to step 2.

STEP 2 *STRENGTHENING OR SETTING THE EDGE (WHITE DOT)*

Turn the Angle Knob clockwise ↻ to the White Dot (speed setting remains unchanged) (see fig. 12). Use the same procedure as in Step 1 for drawing the knife across the honing wheels, but do it only 2 times.

STEP 3 *HONING THE EDGE (BLUE DOT)*

Turn the Angle Knob clockwise ↻ to the Blue Dot. Reduce the speed to "3" on LC & HC Models. The speed reduces automatically on HCA Models (see fig. 13). Draw the blade through 2 times with very slight pressure. At the completion of this step, the knife should be sharp enough to shave hair. If the edge is not satisfactory, repeat all three steps. After the completion of this step, turn the Angle Knob counterclockwise ↺ back to the Red Dot to begin sharpening the next knife.

Figure 11

Figure 12

Figure 13

THINNING OR LENGTHENING KNIFE BEVEL TO REMOVE SHOULDER BEHIND THE EDGE

This step may be done before or after sharpening the edge.

1. Rotate the Angle Knob clockwise ↻ past the Blue Dot (5 o'clock position) to the 7 o'clock position, or slightly past. Honing wheels are slightly overlapped (see fig. 14A & 14B).

2. Set the speed at "7" or higher and draw the blade through the honing wheels 4 times or more until the shoulder is removed.

Figure 14A

Figure 14B

3a. If thinning is done after the edge is sharpened, turn the Angle Knob counterclockwise ↺ back to the Blue Dot. Reduce the speed to "3" and draw the blade through once or twice lightly to rehone edge.

3b. If thinning is done before sharpening, turn the Angle Knob counterclockwise ↺ back to the Red Dot to begin the complete sharpening procedure.

SHARPENING SHORT BLADED KNIVES LESS THAN 5”(12 cm): POCKET, PARING, ETC.

Follow the same procedure as noted under the section entitled “SHARPENING”, except for steps 1 & 2 reduce the speed to “4” or “5”.

TO RESTORE AN EDGE OR POINT

The Tru Hone is capable of putting a new point on a knife and removing severe nicks or chips.

When a knife blade to be sharpened has an edge with nicks or chips, the honing wheels should be brought into an extreme overlap position. Turn the Angle Knob counterclockwise ↺ until the honing wheels are set at approximately the 8 to 10 Bevels (see fig. 15). This will give an adverse angle suitable for removing the defective edge. Set the Speed Control between “7” and “10” and repeat drawing the knife across the honing wheels until the defects are removed. Return the honing wheels to the 3 or 4 Bevel setting and follow steps 1, 2, and 3 under “SHARPENING” to sharpen the knife.

Figure 15

REPLACING HONING WHEELS

Figure 16

STEP 1

Disconnect the electrical cord from the power outlet. Loosen the 7 screws that hold the black honing wheel cover and remove the cover. Turn the Angle Knob clockwise ↻ until the honing wheels are separated (see fig. 16).

Figure 17

STEP 2

Hold both pair of honing wheels simultaneously and use a 7/16"(11 mm) wrench to remove both nuts. Note: The right shaft has a left threaded nut. Remove the 2 brass washers and the old honing wheels (see fig. 17).

Figure 18

STEP 3

Turn one pair of the new honing wheels opposite to the other and slide them onto the shafts against the brass washers. Spacers located behind the brass washers may be moved from one shaft to the other for proper alignment of the honing wheels (see fig. 18).

Figure 19

STEP 4

Slide the outside brass washers onto the shafts and secure them with the right threaded nut on the left shaft and the left threaded nut on the right shaft (see fig. 19). If the honing wheels rub, go back to step 3.

Figure 20

STEP 5

Turn the Angle Knob counterclockwise ↺ until the honing wheels are overlapped 3/16" to 1/4" (4.75 to 6.3mm) with the indicator mark at the Red Dot (see fig. 20). Replace the honing wheel cover and reconnect the electrical cord to the power outlet.

CARE OF HONING WHEELS

With the proper care the honing wheels should sharpen thousands of knives.

Proper care includes:

1. Cleaning the knives before sharpening.
2. Checking the honing wheels for the proper overlap.
3. Applying the proper pressure to the knife on the honing wheels.
4. Inverting the honing wheels periodically.

INVERTING HONING WHEELS

To invert the honing wheels follow the same procedures as for REPLACING HONING WHEELS except for the first part of step 3. Invert the honing wheels (flip 180°) and return to the same shafts (see fig. 21).

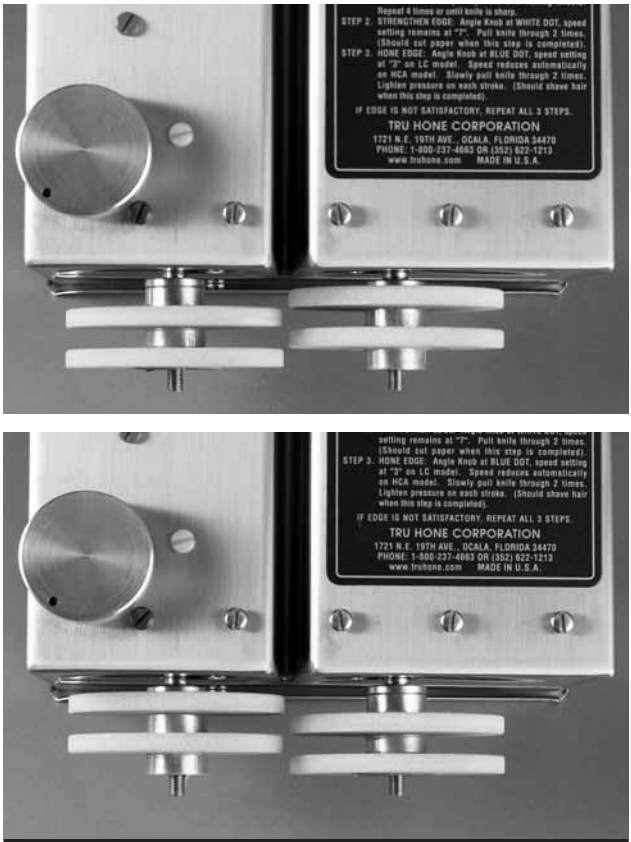

Figure 21

CHANGING THE DRIVE BELT

Extra drive belts and a belt tool are included with the machine (see fig. 22). The drive belt should be replaced when the honing wheels are replaced or if it is evident the drive belt is slipping.

1. Disconnect the electrical cord from the power outlet.

2. Invert the machine, being careful not to damage the controls. The drive belt is accessible through the slot in the base (see fig. 23).

3. Use the belt tool to remove the old drive belt from the pulleys. Discard the old drive belt.

4. Place the drive belt in the groove of the small pulley using the belt tool. Then place the drive belt in the groove of the large pulley and use the belt tool to guide the drive belt around the pulley (see fig. 24).

5. Invert the machine to its proper position and reconnect the electrical cord to the power outlet.

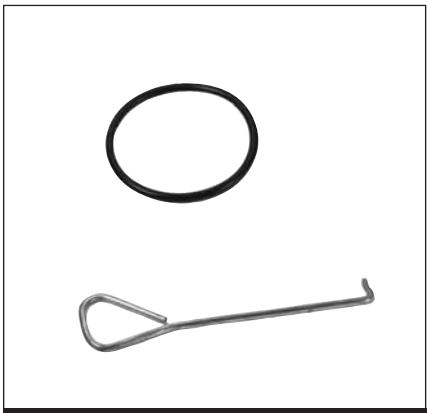

Figure 22

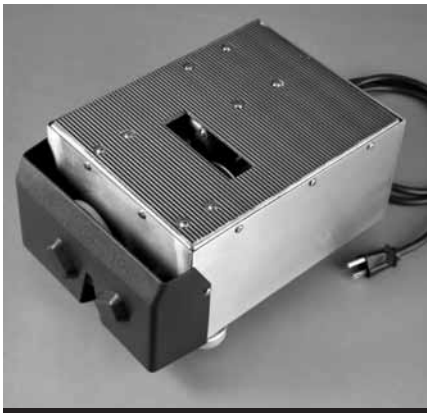

Figure 23

Figure 24

GUARANTEE AND SERVICE

The Tru Hone Knife Sharpener has a 12 month service guarantee. If it is necessary to return the knife sharpener to the factory for repair, package the Tru Hone carefully and ship prepaid to Tru Hone Corporation, 1721 N.E. 19th Avenue, Ocala, Florida 34470 USA. After the sharpener is repaired, it is usually returned by way of UPS. The honing wheels and drive belt are not covered by the service guarantee. Replacement honing wheel sets may be purchased from Tru Hone and a redressing service is available for old honing wheels. One drive belt is included with each set of new honing wheels.

BEGINNING THE DAY

God hath not promised skies always blue,
flower-strewn pathways all our lives through.
God hath not promised sun without rain,
joy without sorrow, peace without pain.
But God hath promised strength for the day,
rest for the labor, light for the way,
grace for the trials, help from above,
unfailing sympathy, undying love.

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