OPERATING INSTRUCTIONS FOR RSD-50

Please be sure to note the following before you begin operating the machine.
1. Never put your hands in front of the blades while operating.
2. Always handle the sharpening device with caution. Even a small slip of the
   hand may lead to serious injury.
3. Be sure to unplug while not in use for safety.

TO START
1. Connect the electric cord plug (#105) of the machine to the power supply.
2. Hold the switch bar (#108) gently to start the machine. When you let go, the
   machine will automatically switch off.
3. Raise the finger guard (#117); insert the material to be cut between the
   upper and lower blades, and cutting will begin.
   * Do not keep the switch bar depressed by tapping or other means to ensure a
     long and good working condition.
   * For safety and proper maintenance, always unplug the machine while not in
     use.
   * Always keep the machine clean and free from remnants.

SHARPENING (GRINDING) THE BLADES
1. Pull the grinding assembly, then the switch bar to rotate the motor, and then
gently press the push button (#118a) for 2-3 seconds. (Please repeat this
operation several times if the blades are not well ground.)
2. After the grinding work is finished, raise the grinding assembly to its original
   position. (If the grinding stone should get dirty, please wipe it clean.)

BLADE REPLACEMENT
If the diameter of the heptagonal blade (#113) should become smaller and not
meet properly with the lower blade (#114), please replace the blades with new
ones.
1. Make sure the electric cord (#105) is disconnected from the power source.
2. Using a screwdriver, remove the lock screw from the upper blade by turning
   the driver to the left.
3. Pull out the blade and wipe off any dirt from the machine.
   Follow these guidelines to replace the lower blade by removing the lock screw
   (#114).

BLADE ADJUSTMENT
Proper adjustment of the upper and lower blades is important for effective
operation.
If necessary please adjust as follows:
1. Insert the small-sized minus screwdriver into (B) and loosen the adjustment
   screw (#114b) for the lower blade.
2. Tighten the lock screw (#113a) for the upper blade.
3. Adjust the lower blade screw (#114b) with the small-sized minus screwdriver.
   (See figure 1)

GRINDER ASSEMBLY REPLACEMENT
If the grinding stone should wear out and become shorter and touch the shaft,
please replace it.
1. Turn the cap (#118a) to the left with your hand and the stone will come out
   easily.

CARBON BRUSH REPLACEMENT
If the motor does not turn over well when holding the switch bar,
replace the carbon brushes.
Also, too much weaving of carbon brush will cause motor troubles.
(Carbon Brush must be replaced when it wears less than 3mm.)
1. While the machine is unplugged, remove the outside cap (#110b)
   and the set screw (#110a) with Driver.
2. Replace the carbon brush with a new one. If the motor does not
   work well after the exchange, it is due to improperly set brushes.
   Repeat the replacement procedures again, carefully.

LUBRICATION AND MAINTENANCE
1. Remove the upper blades (#115) once a week and clean and brush off any
dust or dirt on the back side of the blade. Then lubricate.
2. Every other week, inject a small amount of grease for the plastic gear into
   the hole (A) of the main housing unit. (See figure 1)
3. To reduce friction of the blades, add oil into the drill hole (C) of the felt pad
   2 or 3 times a day and make sure the pad is kept damp. (See figure 1)

SPECSIFICATIONS

<table>
<thead>
<tr>
<th>Blade Type</th>
<th>Description</th>
<th>6%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptagonal Blade</td>
<td>50% Heptagonal Blade (Hexagonal Round)</td>
<td></td>
</tr>
<tr>
<td>Hexagonal Blade</td>
<td>A.C.100/110, A.C.220/240</td>
<td></td>
</tr>
<tr>
<td>Diameter</td>
<td>68/69 Hz, 3Phs.</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>40W (Short time Rating)</td>
<td></td>
</tr>
<tr>
<td>Diameter of Grip</td>
<td>47% Diameter</td>
<td></td>
</tr>
<tr>
<td>Machine Total Length</td>
<td>240% Machine Total Length</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>600g (Excluding Electric Cord)</td>
<td></td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.