

SPI Supplies Carbon Rod Sharpener

SPI Supplies 206 Garfield Avenue, West Chester, PA 19380, USA

Instructions for Use

SPI Supplies Carbon and Graphite Rod Sharpener SPI Supplies# 01797-AB and 01797-AX

A) INSTALLATION - DUST COLLECTION CONTAINER

The Rod Sharpener has an interlock switch which prevents the head from spinning without the Dust Collection Container installed.

Adjustment of the cutting-head will requires removal of the dust collection container. The cutting head is pre-set for the two step style point. If a single set point or another diameter point is needed instructions are located in the "Setting the Cutting Head" section.

Center the Dust Collection Container over the cutting head and lower the top plate in place. Ensure that it is lying flat on the top plate, and depressing the interlock switch plunger.

NOTE: air inlet and outlet are located at the bottom and top rim, restricting airflow into or out of the unit may impair performance and shorten the life of the unit.

B) OPERATION

- 1) Check level of carbon dust in the dust collector; empty if near or above the "Maximum" line.
- 2) Break or cut a carbon rod to the desired rod length. A minimum length of 35mm is needed for the rod to be properly held by the thumbscrew and enable shaping to be done.
- 3) Insert rod into appropriate rod holder with the end to be shaped at the narrow end of the holder.
- 4) Place the end to be sharpened into the tip length gauge block.
- 5) Place the holder into contact with the top of the gauge block. Tighten firmly the thumb screw to secure the carbon rod in pace, otherwise the rod may spin in the holder. The length of the rod protruding from the narrow end of the holder should match the depth of the gauge block hole used. (See Hole Selection Guide on Gauge Block).

- 6) Grasp the holder and insert the holder slightly into the opening above the cutting head. The rod will feed centered into the ½" (6.4mm) hole in the cutter head. Ensure that the carbon rod is not fully inserted and in contact with the cutting head when pressing the power button.
- 7) While resting your hand on the dust collector press and hold the normally-open power button and slowly lower the rod holder into the unit until the rod holder is fully inserted. Do NOT let go of the rod holder while the system is running.
- 8) Release the power button and wait for the cutting head to stop. Inspect the rod and repeat Steps 5-8 until desired shape is achieved.
- 9) Loosen the rod holder thumb screw and remove the shaped rod.

C) SETTING THE CUTTING HEAD

NOTE: Before adjusting the cutting head, unplug the unit to prevent accidental activation of the motor.

Select the desired cutting gauge and insert Setting Gauge in the ½" Carbon Rod Holder using the ½" (6.3mm) depth gauge block and tighten the thumb screw. The setting gauge should not be longer than 3/8" (9.5mm) beyond the carbon rod holder. If this length is set too far into the cutting head the gauge may interfere with the top cutter in the cutting head.

Single Step Rods

For single step rods with 1mm tips leave the lower cutter in its current position. Adjust the upper cutter by loosening the set screw with a 5/16" hex key wrench. Insert the rod holder with the setting gauge into the bearing and lower the holder until it bottoms out in the cutting head assembly. Gently guide the cutter towards center until it contacts the setting gauge. Tighten the set screw [CAUTION: Do not over tighten]

Double Step Rods

For double step rods with 1.6 mm tips loosen both the top and bottom cutter set screw with the 5/16" hex key wrench. Insert the rod holder with the setting gauge into the bearing and lower the holder until it bottoms out in the cutting head assembly. Gently guide the upper cutter towards center until it contacts the setting gauge. Tighten the set screw [CAUTION: Do not over tighten]. Gently guide the cutter towards center until it contacts the setting gauge. Tighten the set screw to secure the cutter.

After completing the adjustments – replace the setting gauge in the rod holder with a carbon rod. Reattach the dust collector and reconnect the electrical power. It is suggested to test the shape of a carbon rod to ensure it of the desired shape.

D) CHANGING OR ROTATING THE CUTTING BLADE

NOTE: Unplug the unit before adjusting the cutting head to prevent accidental activation of the motor.

The cutting blade for the SPI Supplies Carbon Rod Sharpener has four cutting edges. To rotate the cutting edge, or to change the cutter when all sides have been used, follow these steps.

- 1) Leave the cutting head in place on the instrument.
- 2) Loosen the set screw fastening the cutting blade (5/16" hex key wrench).
- 3) Use a probe (such as <u>01203-AB</u>) to slide out the cutter from the cutting head.
- 4) Rotate the cutter 90° or replace if all four edges have been used.
- 5) Follow the instructions above for "Setting the Cutting Head".

E) CLEANING AND MAINTENANCE

The Collector Container should be emptied as the dust level approaches the maximum line to prevent escape of carbon dust. [NOTE: Carbon dust is a potential health hazard].

To contact SPI Supplies about this instrument or any of our products:

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