

#83507 MICROLUX™ DRUM THICKNESS SANDER INSTRUCTIONS

Safety Precautions

Warning! The use of this machine may generate dust which contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. The use of dust masks, vacuum systems and other devices to eliminate exposure to this dust is highly recommended. Persons using this machine or in the vicinity of this machine while in operation should wear safety glasses at all times.

Warning! This machine contains high-speed rotating parts. Do not insert your fingers or any other part of your body into the in-feed side, exit-side or vacuum port of this machine; otherwise, severe injury could result. This machine is intended for sanding the surfaces of wood sheets only; we recommend that gloves are worn when handling wood sheets with a rough texture.

Warning! This machine does not employ a mechanism that controls the feed rate of the wood sheets being sanded. The wood sheets are fed into the machine and propelled through the machine by hand. Please observe the feed direction indicated on the label located on the side of the machine. Do not release your grip of the wood sheet or it may be expelled from the machine at a fast speed, which could cause injury to your person or damage to nearby equipment.

Unplug the machine from the electrical outlet when not in use. Always unplug the machine when performing any service, such as changing the sanding drum sleeve or making adjustments.

Instructions for Use

Before using your Drum Thickness Sander, install the heavy steel roller on the in-feed side of the machine. To do this, loosen the screws that hold the roller guide block to the side of the table; the screws should be loose enough so that the block may be tipped far enough to allow the roller to be put in place.



Then, tighten the screws and make sure the roller “floats” vertically freely. The purpose of the roller is to hold the wood sheet in contact with the table (this is the in-feed side of the machine).



The thumb screws located on each side of the machine lock the table in position.



The hex head screw located under the table is used to set the gap between the table and the sanding drum.

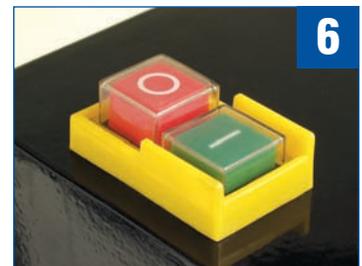
We recommend you use a scrap piece of the wood you intend to sand as a gauge to set the gap. Be sure to tighten the thumb screws before sanding.



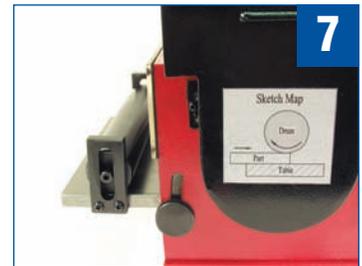
The fitting on the rear of the sander is used to connect a standard 1-1/4” hose from your shop vacuum cleaner.



The ON-OFF switches are located on the top of the machine. To turn the machine on, press the green (I) button. To turn the machine off, press the red (O) button.



This label indicates the direction to feed the wood sheet.



Set the gap so that the drum is in light contact with your test piece. Remove the test piece, then turn on the machine. Feed the test piece slowly and steadily into the machine; be sure to hold the wood down against the table while doing so. As the wood progresses through the sander, use one hand to continue to sand the wood while your other hand reaches around to pull the wood from the exit side of the machine. Maintain a constant rate of feed to avoid burning sanding marks in the surface of the wood.

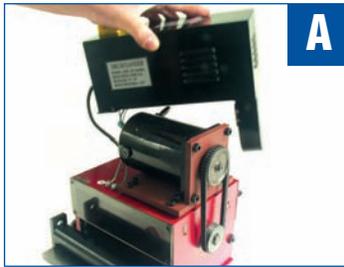


The Drum Thickness Sander is a table top machine. It is quite heavy and should stay in place during use; however, be careful not to use excessive force while using the machine and cause it to tip over.

Practice with some scrap wood to get the “feel” of the machine. In a couple of passes, you'll be able to determine the correct gap and feed rate for the material you are sanding.

Changing the Sanding Drum Sleeve

To change the sanding sleeve, first unplug the machine from the electrical outlet. Then remove the four small screws and washers used to hold the black cover onto the red main frame. Shift the cover to the side (be careful not to break the wire connections) so that the belt drive is exposed.



Remove the belt by slipping it off the pulleys.



Remove the outer C-clip from the pulley shaft.



Remove the pulley by sliding it off the shaft.



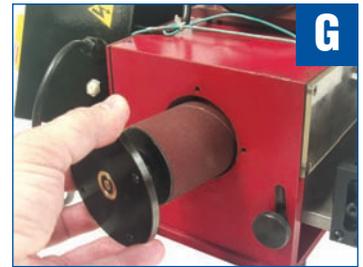
Remove the key and the inner C-clip.



On the opposite side of the machine, remove the 4 screws holding the bearing plate to the red machine frame.



Remove the bearing plate and drum (you may have to tap on the opposite end of the shaft with a wood block to release it).



Remove the bearing plate from the shaft. Use the included spanner to loosen the retaining nut.

The rubber drum will shrink in diameter so that the sleeve may be slipped off. Slide a new sleeve into place, then tighten the nut (gently) with the spanner to expand the rubber drum and retain the sleeve.



Reverse the above procedure to reassemble the machine.

Maintenance

If the drive belt needs adjustment, use the hex head screws as jack screws to adjust the motor plate up and down until the belt is just tight enough to avoid slipping. If it is too tight, the bearings will wear prematurely.



Keep the bearings lubricated with machine oil (oil while the machine is NOT running).



If wood sheets are not sanding evenly from side-to-side, the table is not parallel to the drum. We have incorporated a special adjustment to correct this condition. To make the adjustment, first unplug the machine. Then move the table into gentle contact with the drum. If a tapered gap exists between the drum and the table, loosen the lock nut surrounding the pivot point set screw on the pulley side of the machine (the right side). The set screw has an elliptical pivot pin, and rotating it will set the table into even contact with the drum. Tighten the lock nut and run a test piece through the machine to confirm the adjustment.



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