



715 West Colton Avenue
P.O. Box 35
Redlands, CA 92374
Phone: (877) 793-6636
(909) 793-6636
Fax: (909) 793-7641

E-mail: sales@covington-engineering.com

INSTRUCTIONS FOR COVINGTON WET BELT SANDERS

INTRODUCTION

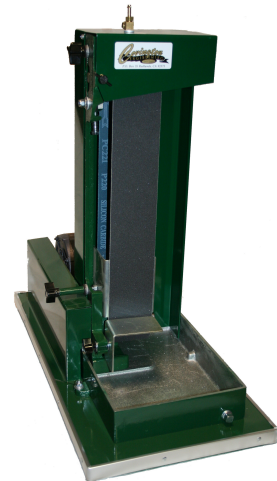
A truly wet belt sander designed for real convenience and versatility. Open side of unit allows sanding belt to be quickly replaced and single control aligner keeps belt running true. Work bench permits unobstructed access to sanding work area.

DESCRIPTION

Sander upright bearing support casting is mounted on heavy aluminum tank base. Bearings are shielded, double neoprene sealed and greased for life. Standard features include sanding belt, delivery sponge for applying water and adjustable back-up plate.

Small wet belt sanding units take 3" X 24" belts. Belts are available in silicon carbide (60-600 grit), cork, leather, felt and diamond.

Large wet belt sanding units take 3" X 41-1/2" belts. Belts are available in silicon carbide (60-600 grit), cork, felt, and diamond.



INSTALLATION

Safety: Before plugging your unit into electrical supply, read the Covington Safety Demand Sheet.

Motor Mounting (when unmounted at the factory): The motor will come with a factory mounted pulley already adjusted for your machine. Place the pulley into the v-belt and set the motor into the cradle. Both motor mount split rings will fit between the uprights on the motor cradle. Once placed into the cradle take the two mounting latches and place them over the cradle notches and tighten the bolt until motor is secured.

Belt Removal-Replacement: Loosen the upper tri-knob (turn counterclockwise) so the belt is loose. **Do not remove knob.** Turn the belt by hand and run the belt to the right; off the drum. Usually it is unnecessary to loosen the vertical adjustment when changing belts.

Belt Adjustment-Lateral: After installing belt, tighten the upper tri-knob (turn clockwise) so that the belt is medium tight and the upper barrel level. Next, start the sander and adjust the knob so the belt runs in the center of the pulleys. Tighten the knob to cause the belt to move toward the tri-knob. Loosen the knob to move the belt in the other direction.

Belt Adjustment-Vertical: Belt tension can be adjusted by tightening or loosening the vertical bolt with spring in the upright casting under the top drum assembly. If there is a humming noise, the belt is probably too tight.

Sponge: Wet the sponge and place it in the pan so it touches the belt. Tape in place. Fill the pan with enough water to keep the sponge damp. The purpose of the sponge is to keep the belt damp and clean. **DO NOT** have the

water level too high or the belt will throw water spray. When not using the sander for several days, remove the sponge so the belt will not remain wet in one place for a prolonged period of time.

Water Valve: If a brass valve is installed in the sander hood with a spray nozzle on the underside, connect a water source to the valve. Use 1/4" copper tubing if the water is under pressure, or 1/4" plastic tubing if the water is brought in by gravity flow. A little bit of water will be ample to keep the belt wet. If the hood is without a valve or nozzle, these items can be ordered from the Covington catalog (No. L488 valve and No. SN808 nozzle).

HELPFUL HINTS & HARMFUL ERRORS

Belt Creeping: If you have trouble with the belt moving to one side when sanding or polishing on the edge of the belt, the belt may be too loose or you may be sanding well above the back plate. Sand in front of the back plate, and or make a slight vertical adjustment.

Wear out: A well used belt will leave a finer finish than the same belt when new. A well worn fine grit belt may be used as a pre-polish belt. Sanding belts do not lose their usefulness until the belt backing wears out.

Sanding: As a general rule, 80 grit abrades twice as fast as 220 grit; 220 grit abrades twice as fast as 400 grit; and 400 grit faster than 600 grit. If the material being sanded is medium to soft, some sanding steps can be omitted.

Polishing: The polishing operation does not remove any surface material, Some materials such as glass almost always require both pre-polish and polish steps. Pre-polish usually consists of 600 grit silicon carbide or, in the case of glass 2F or 4F pumice powder put on a cork belt. A good general purpose polishing device is optical grade cerium oxide on a felt belt.

13" High Back Plate: Use assembly sketch as a guide. Hold the plate vertical behind the belt with the lower bolt in support casting slot and positioned with the side of the plate against the casting. Slide the 1/4" thick washer, spacer and washer on to the lower bolt and secure with tri-knob. Slide spacer "L" onto upper bolt with the front of the "L" acting as a spacer between the support casting and plate. Add washer and tighten tri-knob. Position front face of back plate evenly behind belt and tighten both tri-knobs.

