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INSTRUCTIONS FOR COVINGTON WET BELT SANDERS

INTRODUCTION

This Wet Belt Sander is designed for convenience and versatility. The open side allows sand belt to be replaced quickly and single control aligner keeps belt running true.

DESCRIPTION

Sanders are constructed of a heavy cast aluminum bearing support and base tank. Bearings are shielded, double neoprene sealed and greased for life. Standard features include sanding belt and an adjustable back plate.

Small wet belt sanders use 3" X 24" belts, available in silicon carbide (60-600 grit), cork, felt, and diamond.

Large wet belt sanders use 3" X 41-1/2" belts, available in silicon carbide (60-600 grit), cork, felt, and diamond.

INSTALLATION

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

Belt Replacement, Adjustment, & Tracking: 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. After installing belt, tighten the upper tri-knob (turn clockwise) so that the belt is medium tight and the upper barrel is 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. Adjust belt tension 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.

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 small amount of water will be ample to keep the belt wet.

HELPFUL HINTS & HARMFUL ERRORS

Belt Creeping: If the belt moves to one side when sanding, the belt may be too loose or user may be grinding too far above the back plate. Make a belt tension adjustment by tightening or loosening the vertical bolt with spring (see belt adjustment above).

HELPFUL HINTS & HARMFUL ERRORS CONTINUED

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.

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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 consist of 600-grit silicon carbide or in the case of glass 2F or 4F pumice powder put on a cork belt. An excellent 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 onto upper bolt with the angle 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.