

Supplement to Shopsmith Model 10E and 10ER Manual

Page 3 of the manuals recommends keeping the tubular ways and other unpainted steel parts lightly oiled at all times. This is to provide protection against rust and provide lubrication of the moving parts. This causes dust to stick to the parts creating the need to clean and re-oil the parts after almost every use. Shopsmith later discovered that waxing these parts with paste wax not only provided protection against rust but provides lubrication for these moving parts without attracting dust. Below is the waxing recommendation from the Mark V manual adjusted for the Model 10E and 10ER.

Maintenance: Waxing

CAUTION

Use paste floor or furniture wax. Do not use car wax or spray furniture polish. Car wax, although it offers good protection for metal it is extremely hard and has little value as a lubricant. Spray furniture polish isn't hard enough. Paste floor or furniture wax protects and lubricates. Johnson Paste Wax, Original Formula works well.

Every 5 hours of running time, wax and buff the following parts.

The way tubes, work table support tubes, the miter bar, lathe tool rest post and the guides on the tailstock for the extension table bracket along with the bracket edges that slide in the guides (the unpainted surfaces, not applicable to wood extension table brackets.) Also wax the mounting holes these items pass through.

Apply the wax sparingly, allow it to dry and buff it thoroughly. If you apply too much wax or don't buff it out, the wax will mix with sawdust, impede moving parts, and leave residue.

Some of the parts that need waxing require special care.

Way Tubes – Do not slide the headstock and/or carriage over the new wax before you buff it out. Otherwise, wax may accumulate inside the headstock or carriage and impede movement.

Mounting holes – Wrap a rag around a dowel to apply wax inside these holes. Use the same technique to buff it out. These include the holes in the carriage for the table support posts, the table riser arm and the tailstock way tube holes and lathe center hole.

Other Parts – the knobs with a steel threaded stud screw (like the Extension Table Knob) and the Table Riser Crank can also benefit from waxing. Use care to get all the excess wax out of the threads before using.