

SHOPSMITH SAFETY RULES

SHOPSMITH M5 has the highest safety standards ever built into a home power tool; but SHOPSMITH is still a machine: it cannot think for you. Do not stand in line with any cutting or abrading tool.

Never rush a job. Correct tool speed is important, but rushing the job is poor craftsmanship. Wear safety goggles when abrading and grinding. Do not wear jewelry when working in the shop. Take off your tie, keep sleeves tight around the wrist or above the elbow.

Using a push stick or hold down is good shop procedure.

Secure all machine locks before turning on the machine.

Check when going to vertical position.

Never reach over a machine for a tool.

Do not adjust any energized power tool.

Never remove a cutoff from the saw table while the

blade is in motion.

When sawing, keep blade projection just high enough to do the job—avoid the extreme.

Keep cutting tools sharp.

Never use the rip fence as a stop for cutting off duplicate pieces.

When ripping, feed with the thumb; keep fingers hooked over the fence.

Never operate any tool in excess of maximum recommended speed.

Never cut freehand on table saw.

When crosscutting, use the miter gauge—when ripping, use the rip fence.

Be sure that inserts are flush with the top of the table. When inserting, tighten front screw first and then tighten rear screw until insert is flush.

Maintenance and Lubrication

TUBULAR WAYS: Hard chrome plating requires an occasional cleaning with paint thinner followed by an application of paste wax rubbed to a polish. Be sure to protect tubes during any abrading operation. This same procedure should be followed with extension table tubes, tailstock tubes and table tubes.

BENCH TUBES: These are corrosion proofed with a coating of clear lacquer. Under normal conditions this should last indefinitely. If lacquer surface is damaged, it should be repaired before metal is affected. (Use clear metal lacquer.)

QUILL: Lock quill in maximum extended position. Apply light coat of grease (Magna Lube) to rack teeth. Place a few drops of oil on top surface of quill and run quill in and out several times to spread the oil.

BEARINGS: All spindle bearings are grease sealed and require no lubrication for the life of the machine.

HEADREST LOCK HANDLE: Place a light coating of vaseline or grease on the cam surface. Occasionally, place a drop of oil on the threads.

RIP FENCE: Apply a few drops of machine oil on the threads of the rip fence lock rod.

ALL METAL SURFACES: An occasional application of paste wax, rubbed to a polish will keep the machine clean, protect the metal, and allow work to slide more smoothly.

Oiling Procedure

(for SHOPSMITH M5 sliding sheaves)

The SHOPSMITH Mark 5 speed changer relies on sliding sheaves to increase or decrease diameters of driving and driven pulleys for changing speed. These are precision, close-fit parts that require oiling for smooth movement of sliding sheaves.

GENERAL: Apply oil, as per directions, about every ten hours of actual running time. Use good-quality machine oil (SAE 10 weight). Special oil can is not required. Merely dip a wire or slender stick in oil and allow a few drops (about three) to drip into holes described. Before oiling, turn Speed-Dial to "Rout-Shape" range. Turn off switch.

OILING INTERMEDIATE SHAFT: Remove nameplate on back of headstock by prying with screwdriver in notch at bottom of nameplate (like removing a hub cap). Hand turn spindle until hole in sheave hub can be seen. Place about three drops of oil in hole. Replace nameplate by pressing it on.

OILING MOTOR SHAFT: Remove screws holding Belt Guard to headstock and slide guard along tubes, away from the unit. Hand turn spindle until hole in sleeve hub can be seen. Place about three drops of oil in hole. Replace Belt Guard. Motor Shaft can also be oiled as shown in sketch at left. Use screwdriver to pry off plug button. Proceed as noted above. Replace button.

IMPORTANT

REMEMBER TO OIL ABOUT EVERY TEN HOURS' ACTUAL RUNNING TIME.

