

SHOPSMITH Mark V Speed Conversion Chart

SPEED (RPM)	SPEED-DIAL SETTING	SPEED (RPM)	SPEED-DIAL SETTING	SPEED (RPM)	SPEED-DIAL SETTING
700	A	2000	J	3800	S
800	B	2200	K	4000	T
900	C	2400	L	4200	U
1000	D	2600	M	4400	V
1100	E	2800	N	4600	W
1200	F	3000	O	4800	X
1400	G	3200	P	5000	Y
1600	H	3400	Q	5200	Z
1800	I	3600	R		

ALL SPEEDS ARE APPROXIMATE — SPEED VARIES SLIGHTLY WITH EACH UNIT.
The lower auxiliary shaft speed is 1.6 times the above speed for each setting.

Maintenance and Lubrication

TUBULAR WAYS: The way tubes are chrome plated and centerless ground to assure accurate, low maintenance operation. During any abrasive operation, carefully protect the way tubes with a soft rag. Metal grit or chips can damage the chrome. Hard chrome plating requires an occasional cleaning with paint thinner, followed by an application of hard paste wax rubbed to a polish. This same waxing procedure should be followed with the saw and extension table tops and tubes and the tailstock tubes.

BENCH TUBES: These tubes are chrome plated strictly to prevent corrosion. They should be periodically waxed.

QUILL: Lock quill at maximum extended position. Apply a light coat of high-quality grease to the rack teeth. Place a few drops of oil on the top surface of the 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.

TABLE TUBES: The teeth on the table tubes used to raise and lower the table can build up a sawdust deposit that can cause damage to the pinions. These teeth should be cleaned occasionally with a wire brush.

Oiling Procedure

The SHOPSMITH MARK V 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 light-weight machine oil. A 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. Do not over lubricate.

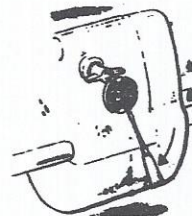
OILING INTERMEDIATE SHAFT: Remove nameplate on back of headstock by prying with screwdriver in notch at bottom of nameplate (like removing a hub cap). Hand turn spindle until hole in sheave hub (close to sheave) can be seen. Place about three drops of oil in hole. Replace nameplate by pressing it on.

METAL SHAFTS: The main and auxiliary spindle shafts and the quill extension handle shaft have been black oxidized to prevent rust. Wipe occasionally with oily cloth to extend the protective life.

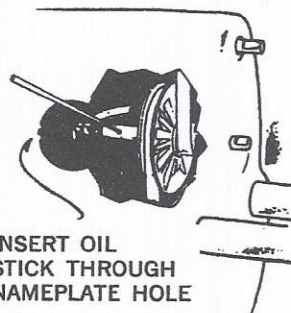
OILING MOTOR SHAFT: Use screwdriver to pry off plug button. Hand turn the spindle until hole in sleeve hub can be seen. This hole is about 1/2" from the sheave casting and can be difficult to find because of the spring. A flashlight and small mirror is sometimes helpful. Place about three drops of oil in hole. Replace plug button by pressing it on.

IMPORTANT

REMEMBER TO OIL ABOUT EVERY TEN HOURS ACTUAL RUNNING TIME. USE JUST A FEW DROPS.



PRY OFF NAMEPLATE



INSERT OIL STICK THROUGH NAMEPLATE HOLE



PRY OFF PLUG BUTTON



INSERT OIL STICK THROUGH PLUG BUTTON HOLE