WARNING
ALWAYS EXERCISE CARE WHEN HANDLING OR USING THIS MACHINE. Disconnect electrical connector before performing repairs, adjustments or maintenance. Be sure machine is properly grounded. When handling or replacing blades exercise care to prevent bodily harm.
SERVICE AND MAINTENANCE

Keep the machine clean and properly adjusted, as this will add to its life and efficiency.

**CAUTION:**

Correct Rotation

Correct rotation of knife blade is clockwise when viewed from knife retaining nut side of blade. Single phase motors are wired at factory with correct rotation. Should three phase motor rotate in wrong direction, reverse direction of rotation by interchanging connections of any two power leads inside of junction box on side of motor.

**Lubricating**

All bearings of machine are lubricated for life and require no attention.

**Sharpening Knife**

It is most essential that a keen cutting edge be kept on the knife at all times, as this insures clean and easy cutting. To obtain this, the grinding wheels must be kept properly adjusted. Because of the wear of knife and emery wheels, it is necessary to adjust emeries toward the knife to avoid long bevel. Wheels must touch knife evenly. Adjustment is made by releasing screws clamping the threaded journals. The journals can then be turned to the proper position. Care should be taken that the emery wheels do not go too far down on knife. A good bevel of 1/8" makes a good cutting edge. Emeries must spin free at all times.

To oil journals, remove screw in end of bushing shaft and oil. Keep emery free from oil and grease. To do this, remove emery and rub wheels together until they show a good surface.

**To Remove Knife**

Remove thumb screw (Ref. #49) and button guard (Ref. #58). Loosen knurled thumb screw (Ref. #60) and rotate safety cover (Ref. #61) from over knife. Insert 1/8 diameter pin through hole in rear head housing. Rotate knife blade (Ref. #89) until pin enters mating hole in back of knife pulley. Using special pin wrench (Ref. #89), rotate knife retaining nut (Ref. #50) clockwise to release knife. **CAUTION** - Knife is sharp - protect your fingers. Reverse procedure to install new blade making certain that new blade seats correctly over blade driving pins.

**Replacing or Adjusting Driving Belts**

To adjust belt tension, loosen (2) hex head bolts (Ref. #42) and pull cutter head assembly away from motor until belts are tight. To avoid excessive bearing wear, do not tighten belt excessively. Re-tighten 2 hex head bolts. To replace belt, remove knife blade, remove cutter arm cover (Ref. #44) and motor pulley cover (Ref. #5). Loosen 2 hex head bolts (Ref. #42) and slide cutter head assembly as far as possible towards motor. Remove old belts and install new ones. Replace all covers and re-tighten belt.