MITRE SAW
MAINTENANCE

Fine performance and long-lasting satisfaction are built into your Frame Square saw. Excellence of design and modern engineering have been combined with quality materials and careful manufacture to produce an efficient and dependable piece of precision equipment for the picture framer.

Realistically, however, just how long your saw continues to serve you well depends on factors beyond our control. The amount and nature of its use (or abuse) and how it is cared for, largely determines the length of trouble-free service you may expect. Actually, your Frame Square saw needs no special care or attention...nothing more than common sense usage and simple maintenance are required.

Take a few minutes now to read the following maintenance hints. By following these suggestions you will keep your saw in prime operating condition and insure its long life.

1. LUBRICATE
Lubricate frequently. Use light oil through the four holes in the table platform after retracting the table top completely toward operator. The top should always glide easily and smoothly; when it moves sluggishly or jerky, lubrication is overdue.

2. KEEP CLEAN
Keeping the saw blade clean is important. Occasionally, as necessary, clean the teeth and sides of blade by manually cutting into a wax stick. This removes resin and also prevents galling when cutting metal. Wax sticks especially made for this purpose may be purchased from your Frame Square distributor or your local mill/hardware supply house.

3. RE-SHARPEN BLADE
Though your Frame Square saw is equipped with the finest carbide-tipped steel circular saw blade, like all blades it will need to be re-sharpened periodically depending on how much you use it.

Heavy burring on metal or chipping on wood indicates that your blade needs immediate attention. Frame Square Blades may be reconditioned by Southern Saw Repair Co., 709 Fourth Street, New Orleans, La. 70130 or any reputable grinding shop.

4. EXCESSIVE NOISE
Excessive noise is a warning signal. It can develop in three areas, which should be checked:

A. Blade. The saw blade is calibrated not to exceed 85 decibels, which is within OSHA regulations. A dull blade or a dirty blade can cause excessive noise.

B. Loose Part. A rubbing sound or sharp noise can be caused by something loose. The drawer should never be moved while the blade is rotating. Check for a loose screw, particularly on the driving end of pulley.

[Scanned by Andrew Lenz Jr. You're welcome!]
Motor belt guard should be removed to see if the key has slipped. If, after re-tightening the set screw, the noise re-occurs it may be a defective pulley that needs replacing.

C. Bearings. The bearings should last indefinitely; however, occasionally a bearing will “go bad” and cause a noise. This noise may be checked by removing the table top assembly and the saw blade. Remove (4) set screws at the end and beneath each rod and slide the (2) rods through the holes and away from the assembly. The table can then be lifted away and the mandrel assembly totally exposed. After switching the motor on, any noise can be detected as a rough grinding sound and possibly some vibration will occur. If removal is necessary, leave any shims under the mandrel in position. The shaft may be removed by pushing out from the pulley side and the bearing can be removed for replacement. Frame Square offers immediate service in this area.

Heavy clamping will also cause excessive gouging or marking on the long rectangular bar with the clamp plate. The newer machines have the spring back slot and hole cut out in the clamp plate; however, regardless, keep nuts and screws tightened at all times.

ADJUSTING SCALES

The scales on both sides may be moved in either direction for adjusting accuracy.

RE-SETTING MANDREL

Re-setting of saw mandrel should be done with exacting precision. The saw blade must be parallel to the sliding rods and approximately centered in the table slot. A special gage may be purchased from Frame Square at nominal cost; however, the mandrel assembly can be properly re-mounted without a gage if extreme care is taken. Frame Square offers quick service in this area when needed.

ADJUSTING CLAMPS

The quick-acting clamps should be adjusted for light clamping at all times. Heavy clamping will cause breakage on either connecting links.

8 MOTOR

The 1/2 HP ball-bearing motor has wattage rating for over “1” horsepower cut and should be ample for sawing any moulding when “not forced.” A smooth cut is essential for good gluing.

9 MOUNTING

The entire unit should be placed on level mounting to prevent binding of the slide rods.