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WEEKLY: Lubricate Universal Crosses, Caster Wheel Bearing, and Caster Wheel.

AS REQUIRED: Relubricate Gear Box Input Shaft each time shear pin failure is experienced.

Check oil level in Gear Box daily for first few days and weekly thereafter. Fill only to check level plug at rear center of gear box as to overfill will cause foaming and overheating of the gear box. Use oils as recommended in Assembly Instructions.

## GENERAL

### OPERATING INSTRUCTIONS

A. Before placing cutter in operation make sure that:

1. All bolts are tightened properly—see assembly instructions.
2. Be sure all parts have been lubricated properly.
3. Be sure bystanders are standing clear of cutter—especially to the rear—to avoid possibility of injury due to flying objects.

B. Start and stop cutter with tractor engine at idle speeds—**never engage PTO at full engine speed.** This is not only harmful to the drive line components of the cutter but can cause serious and expensive damage to the tractor. Starting cutter at full engine speed will result in numerous and consistent shear pin failures. This shear pin is designed to protect both your tractor and cutter—**never replace with a stronger pin. Use only the shear pin provided with cutter, LICO Part No. 09-50-006.**

C. This is a light-duty cutter and although it will take considerable abuse precaution should be taken to avoid damaging shocks and overloads. Care should be taken to avoid stumps, rocks, etc. However, should such an obstacle be struck, watch the cutter to see if any excessive vibration has been set up. If so, check blades and blade arm for twisting or bending. The blade arm can be straightened but do not attempt to repair or straighten the blades. Replace the blades—**in pairs only**—if one or both are broken, bent or twisted.

**Whenever excessive vibration appears be sure to determine its cause and make necessary repairs.** To run cutter with excessive vibration will result in rapid deterioration of cutter—causing cracks in frame and excessive wear on moving parts.

D. For most efficient operation, operate cutter with a P.T.O. speed of approximately 550 RPM and a ground speed of three to five miles per hour. It may be necessary at times, due to type and condition of growth, to vary the ground speed to improve quality of cut or prevent overloading tractor and is a matter of operator judgment.

**Never operate cutter with P.T.O. speeds in ex-**

**cess of 750 RPM.**

E. When transporting, raise cutter to maximum height to insure adequate road clearance.

F. For first few days of operation check all bolts for proper tightness—see recommended torque values in Assembly Instructions (Step 9). If bolts consistently loosen up replace nuts, bolts, and lockwashers and check machine for excessive vibration. Excessive vibration is usually set up by bent blades or blade arm or possibly an unbalanced blade arm assembly.

G. Check wear at blade pivot hole at least once a month. If blade will move in and out  $\frac{1}{8}$  inch check blade hole and pivot bushing for wear. Replace as required. **Replace blades in pairs only—never singly.**

If blades are reground to sharpen be sure to cool blades in water at regular intervals to avoid overheating and removing blade hardness.

**CAUTION:** Repairing blades by welding pieces on—either at the cutting edge or on the suction lugs—is a dangerous practice and should be avoided. Welded blades are very susceptible to breakage and are dangerous to operator, equipment and bystanders.

**ALWAYS SPECIFY SERIAL NUMBER OF CUTTER WHEN ORDERING PARTS.**

### SPECIAL HEIGHT ADJUSTMENTS TOW MODEL

Adjust Hitch Frame, if necessary, for tractor being used as explained in the Assembly Instructions. **Be sure hitch does not interfere in any way with universal drive shaft before starting up cutter.** If using a hydraulic tow bar, raise tow bar to its full height to check universal clearance. If Hitch Frame should strike universal, lower Hitch Frame as instructed in Assembly Instructions.

### LIFT MODEL

To adjust cutting height: Note first that the adjusting straps (Item 21 on the exploded view of cutter parts) have seven holes—six on 1-5/16 inch centers on one end of the strap and a single hole at the opposite end. The single hole should be down as shown. With the bolt through the top hole the cutter is set for a two-inch cutting height—using each successive hole progressing down the strap raises the cutting height two inches each hole—that is, the second hole gives a four-inch cutting height, the third hole six inches, etc. Once cutting height has been established, level off cutter with hydraulic lift system.