ASSEMBLY

INSTRUCTIONS FOR TOW

REFER TO PAGES 10 AND 11 FOR ILLUSTRATION AND PARTS REFERENCES

1. Open all bundles (consisting of basic unit, Tow Bundle, Tow Wheel Axle Bundle, and Universals).
2. Spread parts out on floor and check each bundle to be sure required parts have been shipped. Check parts received against exploded view of Tow Model Cutter in which each part can be identified by its pictorial representation, and by following centerline it can be easily determined where each piece mounts on the main frame.
3. Mount Hitch Frame (2) as shown being sure that series of holes punched on a radius is placed down. (If used behind a tractor having a high draw bar this frame can be reversed, placing these holes up, to raise the hitch in relation to the ground.) Adjust the Hitch Frame to the tractor being used by pivoting the hitch frame about the top bolt and locking it in position by placing a bolt in one of the series of holes provided at the bottom. Torque all Hitch Frame Bolts up to approximately 110 foot-pounds. (This is equal to a 110-pound pull applied on a one-foot-long wrench or fifty-five pounds on a two-foot-long wrench.) Extreme importance should be placed on the proper tightening of bolts so as to reduce the possibility of the nuts shaking or vibrating loose and falling off.
4. Bolt axle mounting pads (14) to frame as shown using bolts, lockwashers, and nuts as indicated. (Torque ½-inch bolts to fifty-five foot-pounds.)
5. Place Dead Axle (11) on Axle Brackets (14) and place Axle Straps (15) over the Axle and to the outside of the thrust rings (as shown). Bolt Axle Straps (15) to Brackets (14) using bolts as indicated. (Torque bolts to fifty-five foot-pounds.)
6. Bolt Wheel Arms (20) to Pads provided on axle using indicated bolts. Assemble bolts with heads to the outside as shown. (Torque bolts to 110 foot-pounds.) NOTE: Wheel arms may be mounted as shown for trailing wheels or forward to place the wheels on the approximate centerline of the cutter.
7. Insert Raising Screw (17) thru Raising Screw Collar (12), assemble Thrust Washer (18) and drive Roll Pin (19) in hole provided in Raising Screw. Assemble Raising Screw Tube (10) on Raising Screw and mount in anchor bracket provided on Main Frame using ½-inch bolt (35) and Stover Lock Nut (39). NOTE: This is a self-locking nut and need not be torqued tight. Tighten nut only enough to remove end play from bolt—do not squeeze anchor bracket ears. Last, insert grease fitting (13) in Raising Screw Collar (12).
8. Remove shear pin and universal retainer from gear box input shaft—grease shaft and mount Implement Half Universal on shaft, install Shear Pin and Universal Retainer. Next apply a liberal amount of grease to square shaft on Tractor Half Universal and assemble in Implement Half Universal.
9. Check all bolts on the complete machine to see that they are torqued up properly. Required torque by bolt size is as follows:
   a. ⅝-inch bolts—110 foot-pounds.
   b. ½-inch bolts— 55 foot-pounds.
   c. ⅜-inch bolts 23 foot-pounds.
   d. ¾-inch L. H. bolt on Gear Box Output shaft—200 foot-pounds.
   e. ⅞-inch Pivot bolts on blade are—310 foot-pounds.

   NOTE: Place special emphasis on Pivot Bolts. After tightening, check blades to be sure they pivot freely.
10. Lubricate Universal Drive shaft at both crosses and Raising Screw Collar (12).
11. Fill Gear Box with oil to check plug (⅛-inch Pipe Plug at rear cutter of box) with S.A.E. 90 oil in the winter and S.A.E. 140 in summer months.

SERVICE INSTRUCTIONS

LUBRICATION

Recommended Greases are Pure Oil HTB, Texas Multifax No. 2 and Sinclair Litholine.

DAILY: Lubricate Universal Square Drive Shaft at sleeve.

WEEKLY: Lubricate Universal Crosses and Raising Screw Collar.

AS REQUIRED: Relubricate Gear Box Input Shaft each time shear pin failure is experienced. Check and repack tow wheel bearings at least once a year.

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.