

Mechanical Transplanter Co.
INSTRUCTION MANUAL
MODEL 1100 Direct & Line Drive



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Mechanical Transplanter Co.

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Direct Drive set up



1. Mark your toolbar for center, 13" or 16" for CAT I, 16" for CAT II. Mark the bar for your row centers . (ie—for 10" mark 20" off center each direction.)



- 2) Install pipe stands for stability by using two FUB 5844 U-bolts, lock washers and nuts. Must be mounted opposite side of a-frame to prevent the units from collaps-



- 3) Install the unit clamps onto the drive (these can be mounted with the angle iron facing out or in depending on space of the toolbar.) By using two #43 bushings, 1/2 x 1 1/2 hex head bolts, nuts, 7/16 x 1 1/4 flat washer and nuts. The TOP holes of the plates.



- 4) Install one drive system on the toolbar by using four $3/4 \times 6$ " bolts for a 4x4 bar or a $3/4 \times 9$ " bolts for a 4x7 bar, along with 4 nuts and lock washers. * Note—the center tire will line up on your row center mark.



- 5) While supporting the drive, install the unit by using four $1/2 \times 1 1/2$ head bolts and nuts. Repeat with existing units.



- 6) Install the A-frame; refer to sheet in A-frame box for assembly



7) Install the inside chain guard by using one 3/8 x 1 1/4 hex head bolt, flat washer and two nuts.



8) Install the red seat bracket "L" by using one UB727, two flat washers and two hex crown lock nuts.



9) Install the unit drive chain to the drive. 146 pin (linked) * Note—you need to add six links when installing the 24 tooth sprocket which is included in kit.



10) Install the outside chain guard by using two B-17 clip pins.



11) Install seats shown here with standard fiberglass and optional cushion with one 1 1/2 carriage bolt, flat washer and 1/2" crown hex lock nuts.



12) Install plant stand mounting plate by using one 3/8 x 1 hex head bolt, one flat washer and nut. Leave loose.



13) Install the plant stand by removing the outer cotter key on the axel. Place over the top of the wheel, then feed it onto the axel. Secure with two 3/8 x 1 bolts and flange nuts. Replace cotter pin.



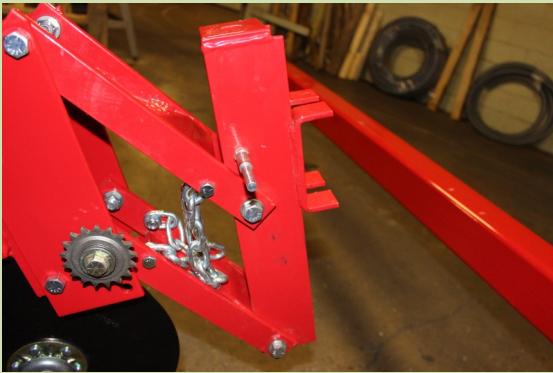
14) Install the outer plant box supports. The inside hole on the support is for 13" boxes, outside hole is for 16" boxes. Secure with one 3/8 x 1 hex head bolt and flange nut. Install your plant boxes.

Next Page for Line Drive Set Up.

Line Drive set up



- 1) Set up your toolbar by marking your center (ie 8' bar would be 48" or 4' center) mark your a-frame drops 16" off center for cat II, 12" off center for CAT I. A) Mark your row center here. We are showing a standard 40" center. By marking 20" off center. B) Mark your drive centers here, we are showing a 80" by marking 30" off center.



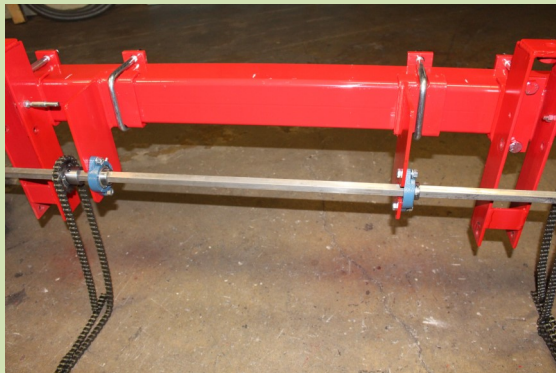
- 2) Remove the unit clamps from the unit and mount by using a 3/4" wrench and socket and secure the clamps by using two 5/8 x 6 1/2 hex head bolts, lock washers, nuts and two red securing plates. (1/2 x 2 x 6)



- 3) Install the two bearing plates by using one 5/8" U-bolt (5844) 1 red securing plate, nuts and lock washers.



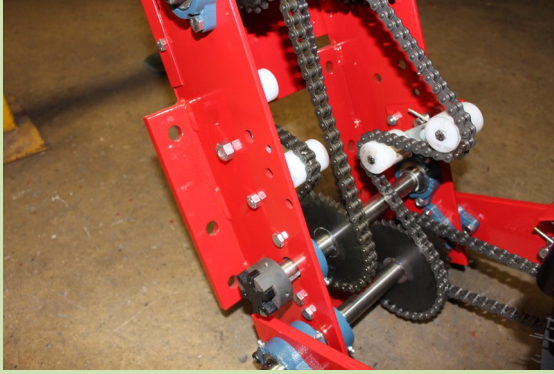
4) Remove the bearings and load the hex shaft with the bearing sprocket chains and shaft adaptor. 185 pin for 1100.



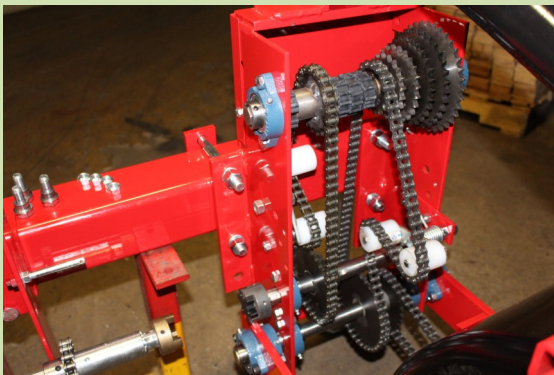
5) Install the shaft into the bearing plates. Replace hex head bolts, nuts and washers. Leave loose.



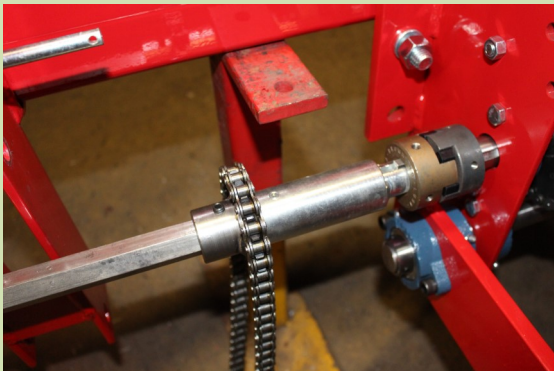
6) Install the pipe stands by using one 5/8 U-bolt , FUB 5844 nuts and lock washers . The other side of the brackets will be shared with the drive and gauge wheel held on by two 5/8 x 6 1/2 hex head bolts, nuts and washers.



7) Remove the drive guard and install the other love joy coupler half and rubber spider spacer.

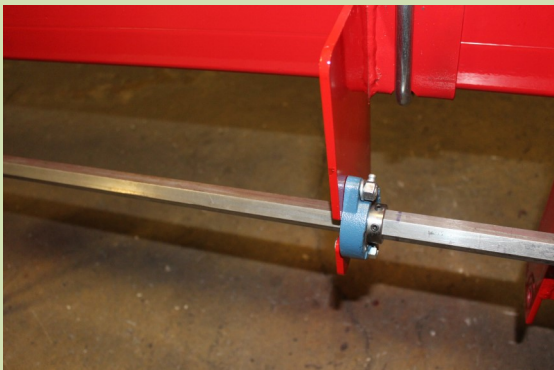


8) Install drive onto toolbar, align wheel with mark on the bar. Use four 5/8 x 6 1/2 bolts, nuts and washers. Use one 1/2 x 2 x 6" red securing plate.



a

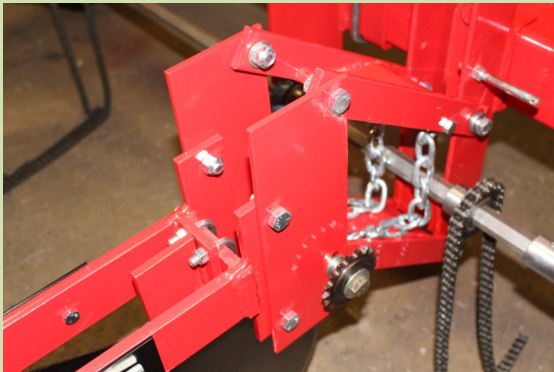
9) Align the love joy coupler. (9a)
Tighten Bearing and set screws. (9b)



b



10) Install gauge wheel by using four 5/8 x 6 1/2 hex head bolts, nuts and washers. Use one 1/2 x 2 x 6" red securing plate.



11) Install units onto clamp by using four 1/2 x 1 1/2 hex head bolts, four #43 bushings and crown hex nuts.



12) Install the a-frame (see instruction sheet included in A-Frame box.



13) Install the unit inside chain guard if not already installed.



14) Install chain as shown. Align sprocket on the hex shaft and tighten. Set screw on the sprocket.



15) Install the red seat brackets by using one UB727 U-bolt, two flat washers and nuts. * Note—when installing brackets on unit equipment with a double disc shoe attachments the brackets will be staggered.



16) Install the outside chain guard secure with two B-17 clip pins.



17) Install the last chain guard secure by placing one guard spacer and clip pin.

**To install plant stands, please see page 5,6 & 7

Safety Precautions

1. Make sure tractor is stopped and in neutral with the transplanter lowered to the ground before getting on /off the unit.
2. No operator is allowed to be on the unit as it is raised and lowered.
3. No operator is allowed on the transplanter as it is transported to or from the field.
4. All operators must be seated before movement begins and remain seated until the transplanter is completely stopped.
5. Never leave the transplanter in the raised position
6. Keep all shields and guards in place when operating the transplanter.
7. Never attempt repairs or maintenance while the transplanter is in motion.
8. Never put the tractor in reverse while the transplanter is on the ground.
9. Follow all safety instructions supplied by the tractor manufacturer to which the transplanter is mounted.

MACHINE IMPROVEMENTS

MECHANICAL TRANSPLANTER CO. IS ALWAYS STRIVING TO MAKE IMPROVEMENTS ON THEIR LINE OF EQUIPMENT. MECHANICAL TRANSPLANTERCO. RESERVES THE RIGHT TO MAKE IMPORVEMENTS AND CHANGES AT ANY TIME WITHOUT INCURRING OBLIGATIONS TO MAKE SUCH CHANGES OR ADDTIONS TO EQUIPMENT PREVIOUSLY SOLD.

Limited Warranty

Mechanical Transplanter Company, LLC warrants each item of new equipment manufactured by Mechanical to be free from defects in material and workmanship under normal use and service.

The obligation of Mechanical Transplanter Company, LLC under this LIMITED WARRENTY is limited to repairing or replacing as Mechanical may elect, any parts that prove, in Mechanical's judgement, to be defective in material and workmanship within the first season's use of 45 consecutive days after initially placing equipment in operation, whichever occurs first. Any outside work or alterations without Mechanical's written approval will render the LIMITED WARRANTY void.

Mechanical's obligation specifically excludes any liability for consequential damages, such as loss of profits, delays, expenses, damage to goods or property used in connection with or processed in or by the product sold, or damage to the product sold from whatsoever cause, whether or not such loss is due to negligence of selling dealer of Mechanical Transplanter Company, LLC.

This limited warranty shall not apply to any item or machine which shall have been operated in a manner not recommended by the Company nor which shall have been repaired, altered, misused, damaged in an accident, neglected, tampered with or used in any way which in the Company's opinion adversely affects its performance and results.

No person is authorized to give any other warranties or to assume any other liability on behalf of Mechanical Transplanter Company, LLC unless made in writing by Mechanical Transplanter Company, LLC.

This limited warranty covers repair or replacement of Mechanical's equipment only and does not cover crop loss, downtime, labor, damage to other equipment, etc.

This limited warranty does not apply to exterior finishes, tires, chain links, bearings, or any other items sold by Mechanical Transplanter Company, LLC, but warranted by the original manufacturer except to the extent of their individual manufacturer's warranty.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WARRANTIES OF MERCHANT ABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE EXCLUDED, AS ARE ALL OTHER REPRESENTATIONS TO THE USER-PURCHASER, AND ALL OTHER OBLIGATIONS OR LIABILITIES, INCLUDING LIABILTY FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, ON THE PART OF MECHANICAL OR THE SELLER.