

Mechanical Transplanter Co.

Model 92 - Instruction Manual



1. There is a 2x2 piece of tubing on the backside of the main pan. From the center of this tubing, measure 18" off-center for 4' plastic and 12" off-center for 3' plastic. Make a mark on each side of the tubing for the size plastic you are using. Fasten square wing holders to 2 x 2 tubing using 2-1/2" U-bolts on each holder. Make sure center of wing bracket is on your mark. (Photo to right shows setup for 4' plastic).



2. Tilt pan forward so runners or wings can be slid into square tubings installed in step #1. Slide tubing in all the way so the wings touch the bottom of the pan. Now tighten square head set screws.

3. Bolt roller assembly onto two tabs in center of main pan by inserting 2 #43 bushings into hole on tab and secure with 1/2 x 1-1/2" bolts.



4. Bolt 4 x 4 toolbar onto main pan using 3-Point hitch lower arms and four 7/8 x 6-1/2" bolts. Center toolbar on clamps and tighten bolts.

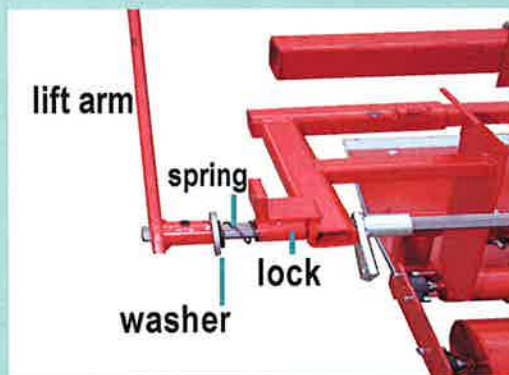
- Slide roller guide tubing into larger tubing behind 4 x 4 toolbar. Push all the way in and tighten square head set screw. Slide end guides onto roll guide and tighten down with square head set screws. For 4' plastic leave 49" between guides.



- Slide hex shaft into one side of roll end guide arm. Slide one roll holder lifting bracket onto hex shaft. Then slide two extra roll holder supports and one more lifting bracket (Photo A) Continue to slide hex shaft through other side arm. Slide two outside brackets over one to each side by tubing arm (Photo B) Do not tighten bracket yet.



- When standing behind unit, slide extra roll lock onto left side of hex shaft. Slide spring, 1-1/4" washer and then lift arm onto hex shaft. Tighten lift arm set screw near end of hex shaft.



- Lay extra roll holder pan onto support arms that are in the middle of the hex shaft. Use 2-3/8 x 1 carriage bolts with washers and nut on bottom. Center between side roller guides and tighten all allen head set screws.



9. Install lift chains to roll holder lifting brackets and roller assembly. Use 4-3/8 x 1" bolts, 3/8" washers and nuts. Washer goes against head of bolt then the chain.



10. Mount side arm clamp (sloped side of clamp on top) to back side of 4x4 toolbar. For 4' plastic mount these clamps 1-1/2" from end of toolbar. Use 4-5/8 x 6-1/2 bolts and 1/2 x 2 x 6" securing plates. TIGHTEN!



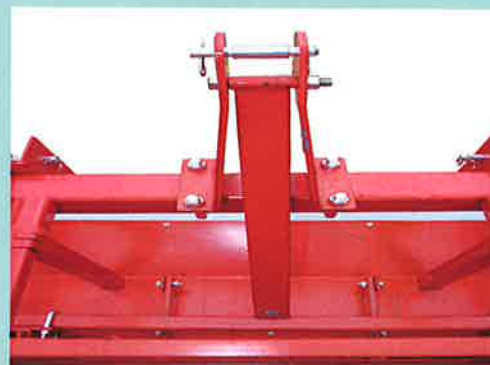
11. Mount green round side arms onto above clamps. Use 2-3/4 x 5 bolts and 3/4" lock nuts. Tighten snugly just so green sidearm can move freely up and down.



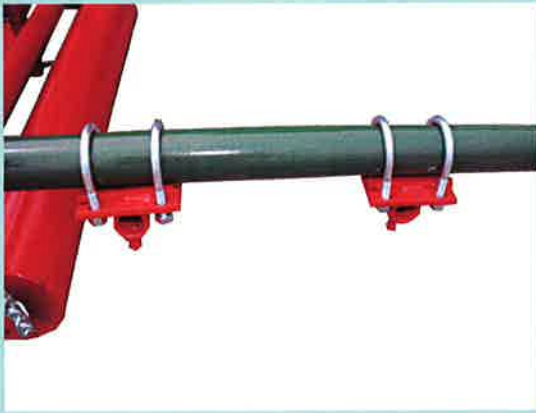
12. Set 3-Point upright arms onto toolbar. Install support arm between uprights and tab on main pan using 3/4 x 5" bolt on top and 5/8 x 1-1/2 bolt on bottom tab. Center uprights on center mark and use two UB 344 U-bolts fasten it to 4x4 toolbar. Tighten all bolts and nuts.



12A



12B



13. Put two 1/2" round U-bolts on each of four shank mounting brackets. Slide two brackets on each green side arm. Leave loose.

14. Use two 7/8" set collars and two 7/8" machine bushings to mount each smooth wheel to axle. Tilt front clamps and slide wheel shanks into pipe on clamp. Tighten clamps 39-1/4" from front of toolbar to front edge of clamp. There should be 7" of rod showing above clamp. Then angle wheel inward slightly and tighten square head set screw. Now tighten U-bolts on clamp. (Photo's A & B)

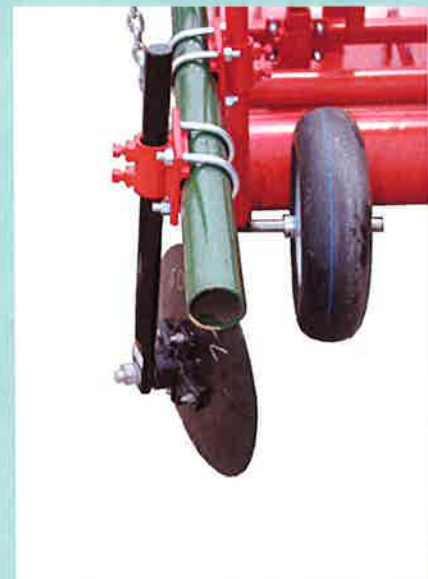


14A



14B

15. Slide coultter blade shank into rear coultter clamps. Turn clamp so it is on the outside of green pipe. Leave 5" of shank showing above clamp and tighten square head set screw with coultter on an outward angle. Tighten U-bolts with back of clamp 9" from back of pipe.



16. Use 2-1/2" U-bolts on each dirt shield bracket. Mount them flush with the end of pipe. TIGHTEN.

17. Bolt dirt shield holder to bracket using two 3/8 x 3-1/2" bolts and 1/4 x 1/2 x 3" securing plates on each one. Use two 3/8 x 1-1/2 carriage bolts to fasten dirt shield to bracket. These shields will have to be adjusted as you start laying plastic.



Packing List for Model 92

Bag #1

- 2 Lift chains 17 Lengths
- 2 #43 Bushings
- 14 3/8 Nuts
- 10 3/8 Washers
- 34 1/2 Nuts
- 5 5/8 Nuts
- 2 3/4 Nylock Nuts
- 5 3/4 Hex Nuts
- 4 7/8 Nuts
- 4 7/8 Collars
- 4 7/8 Machinery Bushings

Bag #2

- 4 3/8 x 1-1/2 Carriage Bolts
- 4 3/8 x 3-1/2 Hex Head Bolts
- 2 3/8 x 1 Carriage Bolts
- 4 3/8 x 1 Hex Bolts
- 2 1/2 x 1-3/4 Hex Bolts
- 3 3/4 x 5 Hex Bolts
- 4 5/8 x 6-1/2 Hex Bolts
- 1 5/8 x 2 Hex Bolt
- 4 7/8 x 6-1/2 Bolts

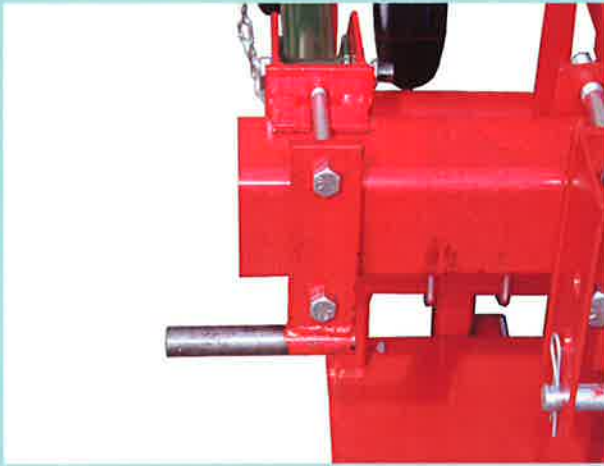
Bag #3

- 12 9034 U-Bolts
- 2 FUB 3444
- 4 FUB 1222

CUTTER ATTACHMENT

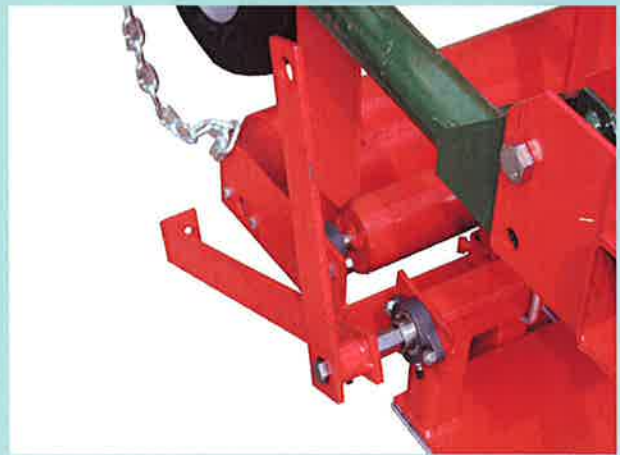
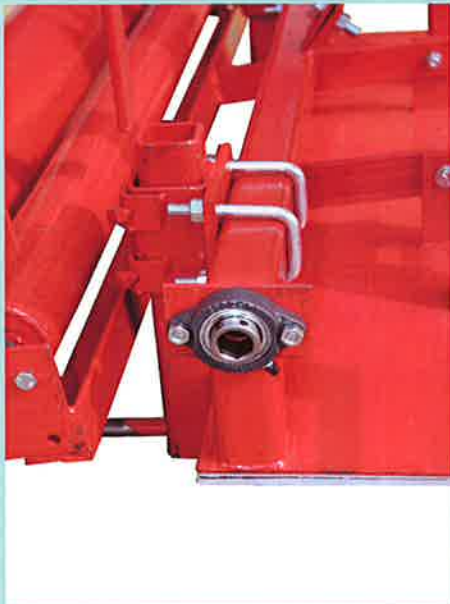
- 2 1" Collars 2-1/2 x 1-1/2 Bolts w/2 Nuts
- 4 3/8 x 1 Bolts w/4 Nuts 2-7/8 Hex Bearing

Instruction Manual for Optional Cutter Assembly *for Model 92*



1. Remove left side arm securing plate and replace with new plate shown with rod welded onto the bottom side.

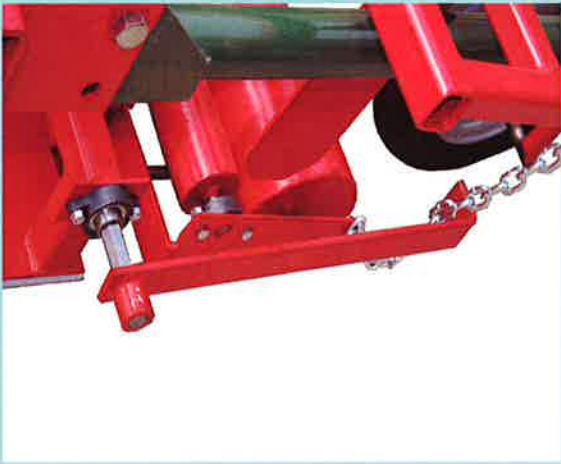
2. Slide hex shaft into tubing on main frame. Now slide a 7/8" hex flange block bearing on each end of hex shaft. Leave about 4" of shaft showing on each side. Secure with 4-3/8 x 1 bolts and tighten set screws on bearings.



3. Slide left lift arm onto hex shaft. Leave loose.

4. Mount cylinder to front arm by sliding 1" set collar on shaft. Mount cylinder clevis with another 1" set collar in the middle of the clevis. Pin the back of the cylinder to the lift arm. Wait to tighten set collars.





5. Slide right lift arm onto hex shaft. Tighten flush with end of hex shaft.



6. Bolt cutter arm (with teeth forward) to the right and left lift arm using the top hole. Use 2-1/2 x 1-1/2 bolts.



7. Tighten cylinder set collars and left lift arm set screws.



Model 92 Drip Assembly Instructions

1. Mount roll holder to front toolbar next to 3-Point Hitch using one 5844 U-bolt.
2. Bolt tape guide to 2 x 2 bar on main pan using 2-1/2 x 3-1/2" bolts. Slide tape guide bracket on bar to the desired offset and tighten bolts.



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Safety Precautions

1. Make sure tractor is stopped and in neutral with the transplanter lowered to the ground before getting on and 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 TRANSPLANTER CO. RESERVES THE RIGHT TO MAKE IMPROVEMENTS AND CHANGES AT ANY TIME WITHOUT INCURRING OBLIGATIONS TO MAKE SUCH CHANGES OR ADDITIONS TO EQUIPMENT PREVIOUSLY SOLD.

Limited Warranty

Mechanical Transplanter Company 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 under this LIMITED WARRANTY is limited to repairing or replacing as Mechanical may elect, and any parts that prove, in Mechanical's judgment, to be defective in material and workmanship within the first season's use or 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.

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, unless made in writing by Mechanical.

This limited warranty covers repair or replacement of Mechanical Transplanter Co. 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 Co., but warranted by the original manufacturer except to the extent of their individual manufacturer's warranty.

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