

# Two-Row Fertilizer Side Dresser Assembly Instructions



- \* **Gauge Wheel Drive System**
- \* **300 lb. Poly Hoppers**
- \* **Available in many row configurations**
- \* **Assembled on an adjustable toolbar**



- \* **Fertilizer can be dispensed on one or both sides of the row**
- \* **Optional disc openers, cultivator teeth, or sweeps**

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# Two-Row Fertilizer Side Dresser Assembly Instructions



1. Set toolbar on stand or blocks. Measure and mark center of toolbar, row centers and wheel centers.

2. Take large guard off drive assembly so bolts can be inserted through inside holes



3. Put two  $5/8 \times 9-1/2$ " bolts through top holes of drive mounting plates. Place drive on toolbar resting on the two bolts as shown.

4. Insert green pipe stand into mounting plate. Snug pipe so it is shorter than the stand under the toolbar. Slide  $5/8 \times 9-1/2$ " bolts in lower holes on drive. Put pipe stand plate against toolbar and secure with  $1/2$ " nuts and lock washers. Now use  $1/2 \times 6$ " plate on other side and tighten.

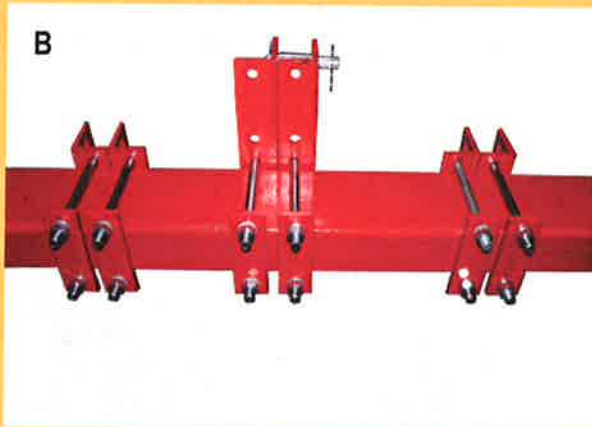
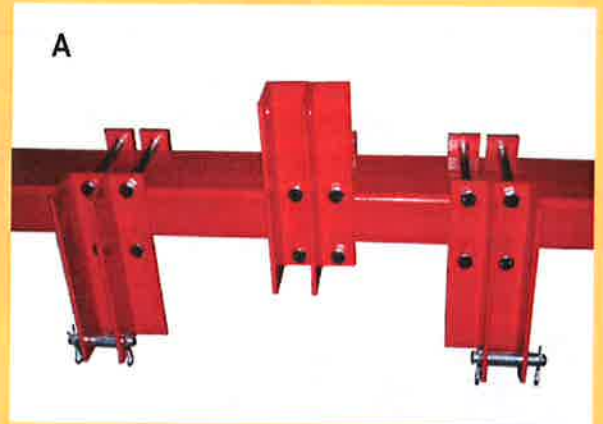






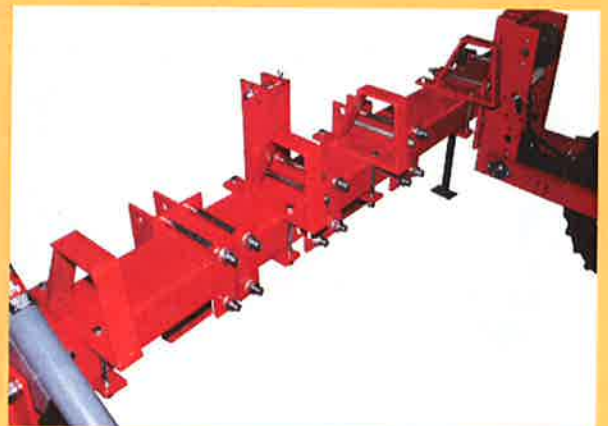
5. Bolt gauge wheel assembly to toolbar by centering tire on wheel center mark. Use four  $5/8 \times 9-1/2$ " bolts, nuts, lock washers, pipe stand plate and standard  $1/2 \times 6$ " plate. Place pipe stand on outside bolts.

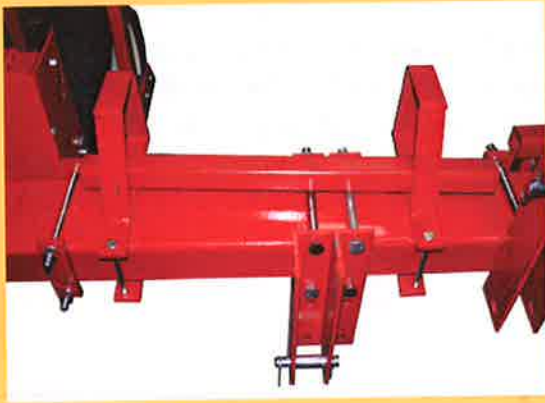
6. Bolt 3-Point Hitch center upright angle irons on center mark of toolbar using four  $3/4 \times 9-1/2$ " bolts, lock washers,  $3/4$ " nuts and two  $1/4 \times 2-1/2 \times 7$ " securing plates on back side. Make sure bolts are tightened evenly and angle irons are straight. (Photo A)



For CAT I, mark 13" off toolbar center mark and for CAT II, 16". Fasten lower arms to toolbar using one pair of angle irons, four  $3/4$ " and  $9-1/2$ " bolts, lock washers,  $3/4$ " nuts and two  $1/4 \times 2-1/2 \times 7$ " plates on each side. When standing in front of toolbar put left inside and right inside bolts on top of your marks. All angle irons must be bolted tight together. (Photo B)

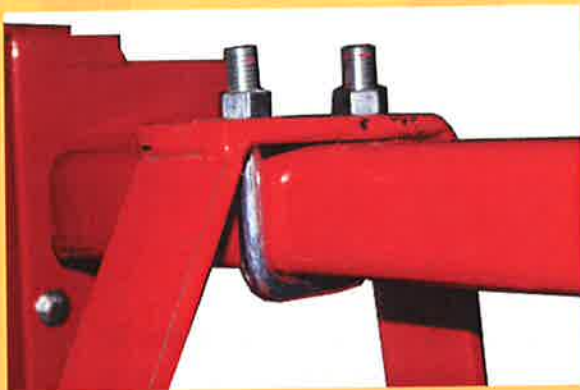
7. Set four hopper stands on toolbar. DO NOT tighten stands on toolbar until hoppers are on. Use two  $1/2 \times 6$ " bolts and one  $1/4 \times 2 \times 9$ " offset hole securing plates on each stand. Space them loosely as shown on toolbar.





8. Lay a 2 x 2 x 3' toolbar under or inside each pair of hopper stands as shown.

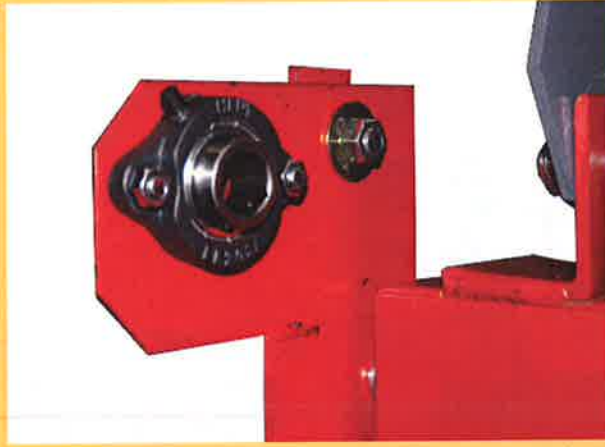
9. Use two UB1222 U-bolts on each toolbar. Lift toolbar up and push U-bolt in from bottom and secure with 1/2" nuts. Leave 5" of short toolbar showing on end next to drive wheel assembly. Center stands and short toolbars over row center marks. Tighten stands and toolbars.



10. Set hoppers on top of short toolbars. The hopper with pillow block bearing must be mounted next to drive wheel.

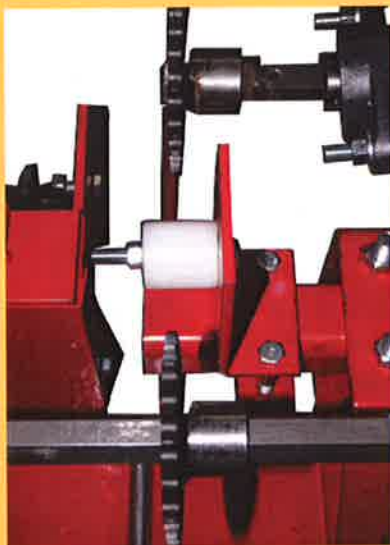
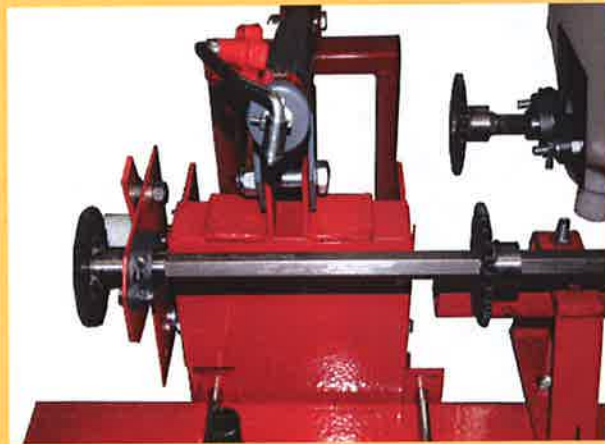
11. Install connector tubing between hoppers. Use 1/4 x 1-1/2 bolts and lock nuts. The connector sent is for 48" rows. For anything closer you'll need to cut large or outside tubing. Measure distance between hoppers. Allow 1/2" from each bearing when measuring. Hopper U-bolts must be really loose so you can tilt hopper backward or forward to put connector on shafts. Make sure holes on tubing connector ends are 90 degrees opposite each other. NOW tighten hopper U-bolts.





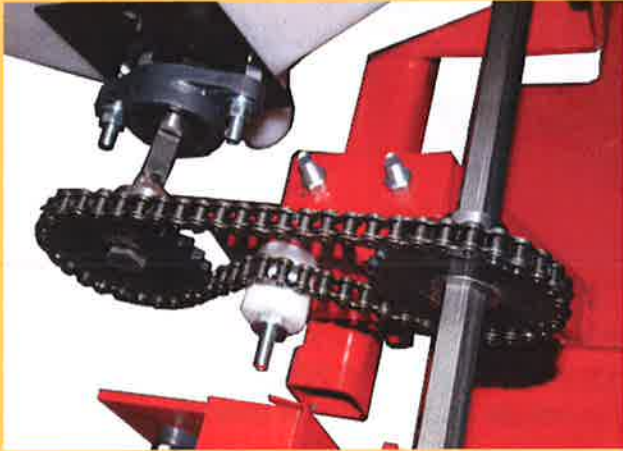
12. Loosen bearing on drive as shown. Loosen socket set screws in both bearings. Now slide hex shaft into first bearing. Place a 25 tooth sprocket on end of shaft between bearings. Slide hex shaft through second bearing on hopper. Leave 2" of shaft showing on outside of drive side bearing.

13. Tighten bearings and allen head set screws. Place another 25 tooth sprocket on end of shaft. Slide a third sprocket onto hopper shaft. Leave all sprockets loose until chains are on.



14. Set chain tightener bracket on end of small toolbar by drive side. Use two  $3/8 \times 3$ " bolts and  $3/16 \times 1-1/2 \times 3-1/2$ " securing plate. Leave this bracket loose. Fasten plastic chain tightener to bracket using  $3/8 \times 3$ " carriage bolt. Center plastic tightener between sprockets so it is centered. Tighten bracket.





15. Install #40 x 60 link chain between hopper and drive shaft. Tighten chain tightener by sliding it up so chain is snug. Align sprockets and tighten set screws.



16. Slide 3/8" washer onto chain tightener bolt. Slide chain guard onto bolt and tighten using 3/8" washer and nut.



17. Use #40 x 62 link chain between upper drive sprocket and lower drive sprocket. Set plastic chain tightener against chain and tighten. Be sure that the tightener spring is set like the photo.



18. Using top bolt on drive bearing holder, slide drive guard on it and tighten with 3/8" nut.

19. Place large main drive guard back on drive using 2-plastic handled bolts.

20. Slide fertilizer hoses onto hopper downspouts and secure with hose clamps.

21. Slide hoses into holding brackets. Fasten holding brackets to toolbar using two 1/2 x 7-1/2" bolts and 3/16 x 1" x 6" securing brackets. Use upper or lower holes depending on how high the toolbar is run off the ground.



22. Fasten cover straps to hopper using four 1/4 x 1-1/2" bolts, six 1/4 washers and eight 1/4 flange nuts. Attach straps to hopper and top with the top off so straps are not stretched tight. Slide rubber strap through bolt, then flange nut (backwards) then washer. Insert into hopper. Use another washer inside hopper and secure with flange nut. On top only use washer on outside none on inside.



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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.*

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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.

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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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