

MODEL 90 MULCH LAYER MANUAL

The following instructions are for setup with 4' plastic. For 3' plastic, move side arms and front coulters in 6" on each side, for 5' plastic move out 6".

1. Locate front 3-Point hitch and place on flat surface with arms straight up. Lay 2 x 4 toolbar on top of arms and center toolbar. Secure to 3-Point using extra roll holder and four 1/2 x 3-1/2" bolts. (Photo 1)



2. Use four FUB1221 U-bolts to fasten leveling blade brackets to 3-Point side arms. Leave U-bolts slightly loose until shanks are inserted in step 4.

3. Bolt shanks to leveling pan using two 3/4 x 2 bolts. DO NOT TIGHTEN YET!



4. Tilt 3-Point/toolbar assembly back and insert shanks into tubings on side arms. Leave 3-1/4" of shank showing above bracket and tighten set screws. Set side brackets 6-1/2" from top clamps and tighten U-bolts.



5. Assemble gauge wheel tire on axles using two 7/8 collars and two 7/8 machinery busings.

Assemble as follows:

Place one 7/8 collar 3- 3/4" from the end of the axle. Then a 7/8 machinery bushing, the tire, the second 7/8 machinery bushing and lastly the second 7/8 collar.



6. Lay gauge wheel brackets on toolbar and center 39" from center of toolbar. Fasten gauge wheels to toolbar using two FUB12435 U-Bolts with washers and nuts (Photo 6, 6A, & 6B). Tip front assembly so it stands on leveling blade and gauge wheels.





7. Tip front assembly upright so it stands on leveling blade and the gauge wheels. Bolt 3-Point support arms between top of 3-Point and extra roll carrier brackets on toolbar. Use two $3/4 \times 3-1/2$ " bolts on top (tubing end of arms) and two $5/8 \times 1-1/2$ " bolts on the bottom or flat end (Photo 7).



8. Slide disc shanks into front shank brackets with $7-1/2$ " of shank showing above clamp. Bolt clamps to toolbar using four #FUB1224 U-bolts. Tighten $15-3/4$ " from center of toolbar to inside edge of mounting bracket. Angle blades as shown. When unit is all set up you'll have to raise it with your tractor and lower all disc shanks $2-3$ ". (Photos 8, 8A, 8B).





9. Bolt #9080 roll carrier to toolbar using two FUB1242 U-Bolts, one on each side. Place one on each side and against extra roll carrier brackets.



10. Slide the #9016RS & 9016LS brackets onto each end of the #9013 square roll holder arm.

11. Secure roll holder arm to the roll holder bracket, sliding the 3/4" shaft through the holes. Place one 3/4" set collar on each end of the shaft. Hook the chains from extra roll holder brackets to the roll holder arm.



12. Fasten side arm brackets to toolbar using two #FUB5824 U-Bolts. Tighten brackets 25-1/2" from center of toolbar to inside edge of bracket.

13. Attach side arms using two 3/4 x 4-1/2" bolts and 3/4" lock nuts.

Note: A bolt can be put into bottom hole if soil is so hard that coulters cannot cut into the soil. By doing this your third arm can be lengthened to put more pressure on the back of the unit.

Do this only in hard soil conditions!





14. Take the four shank clamps and put two #9034 U-Bolts on each clamp. Slide two clamps onto each side arm. Leave loose.

15. Use two 7/8" set collars to mount each smooth wheel to axle. Tilt front shank clamps and slide wheel shanks into pipe. Tighten these clamps 29" from toolbar to front edge of clamps. Set wheels on slight angle with shank straight down with about 5" of shank showing above clamp. Tighten set screws.



16. Tilt the back shank clamps and slide rear coulter into clamps. Angle coulters out. Tighten clamps 40" from toolbar to front edge of clamps. Tighten set screws with 4-1/2" of shank showing above clamps.

17. Use two 1/2" U-bolts on each dirt shield bracket. Place them 52" from front to toolbar to front edge of clamp (Photo 19). Bolt bracket to tubing using two 3/8 x 3-1/2" carriage bolts on each side. Bolt dirt shield to mounting bracket using two 3/8 x 1-1/2" Carriage bolts on each side. These shields will have to be adjusted as you start laying plastic.



18. Finished Model 90 set up for 4' plastic. Shown with optional DRIP EXT attachment.



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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.

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