

38 FOOT TOOL BAR WITH THREE DEFLECTORS



ASSEMBLY INSTRUCTIONS

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HOULE

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Tool bar assembly

1. Framework

- 1.1. Measure the distance between the inside of the slides - *fig. 1*. Compare this distance with the overall width of the upper nylon shoes - *fig. 2*. Add or remove spacers in order to get a lateral play of approximately 1/16".
- 1.2. Remove the lower nylon shoes - *fig. 2*.
- 1.3. Attach the tool bar framework to a winch using the lifting hooks - *fig. 3*.
- 1.4. Apply grease inside the slides. Lower the framework into the slides low enough to install the lower nylon shoes.
- 1.5. Install the lower nylon shoes and raise the framework to get the nylon shoes inside the slides.
- 1.6. Install a block to support the framework, then remove the winch - *fig. 4*.

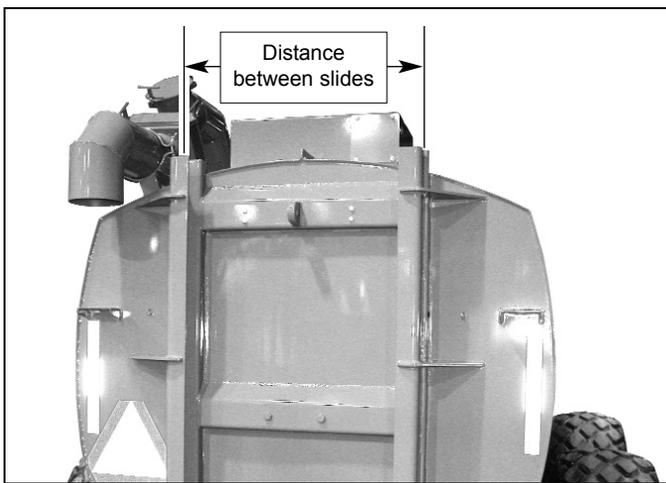


Fig. 1

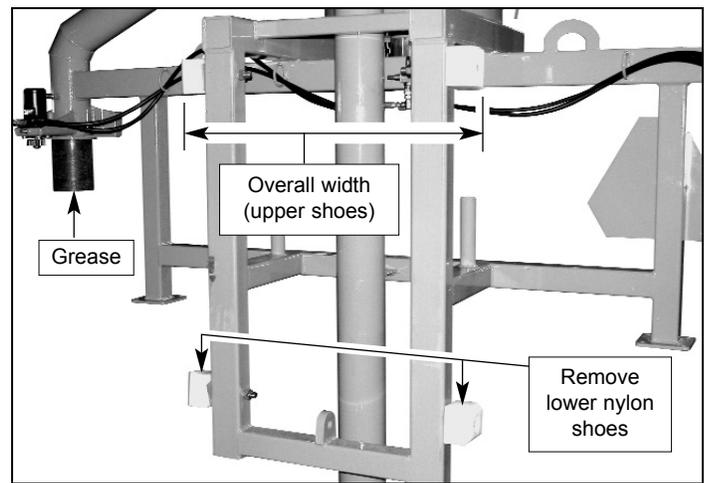


Fig. 2

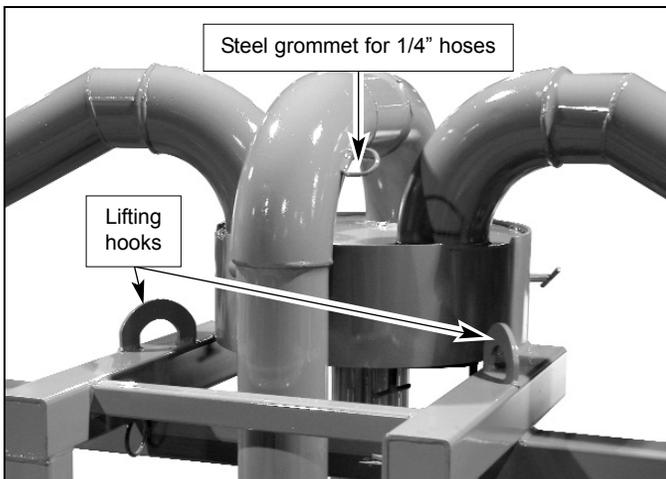


Fig. 3

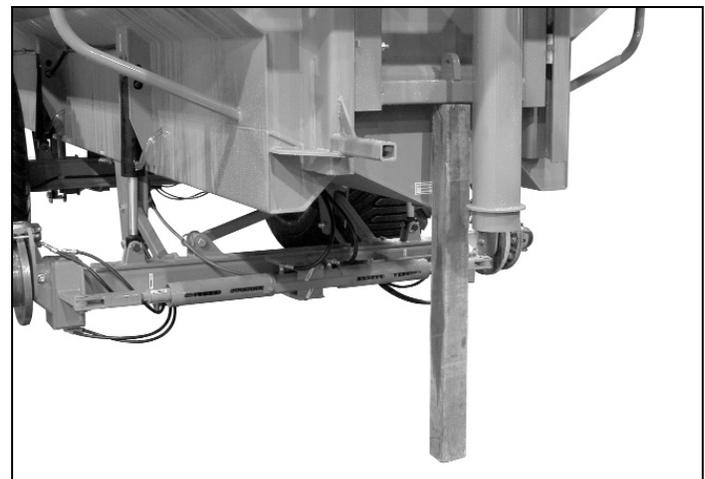


Fig. 4

Tool bar assembly

2. Side arms

- 2.1. Grease the joints of the side arms - *fig. 2, page 2*.
- 2.2. Using a winch, install and support the side arms so that the gear plate is all the way up and aligned with the motor gear - *fig. 5*.

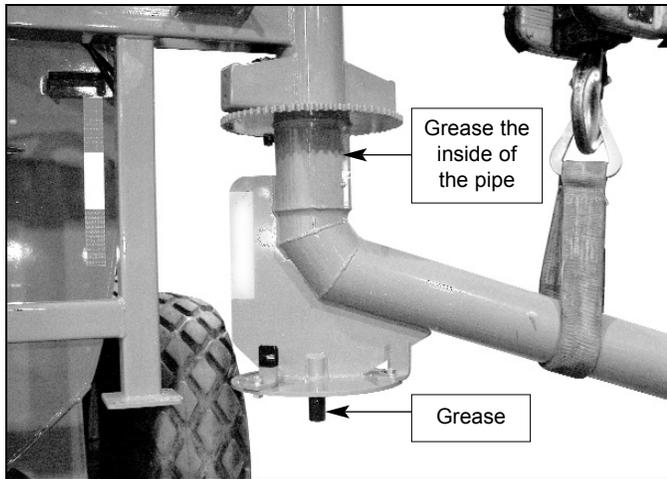


Fig. 5

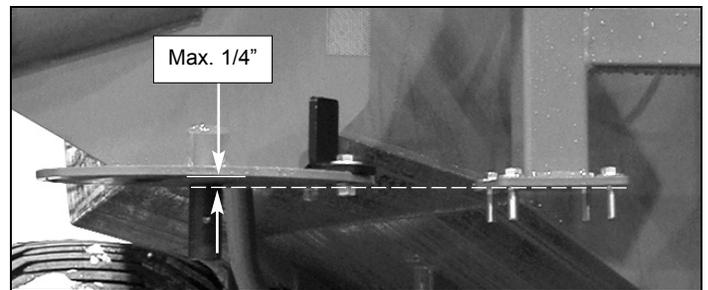


Fig. 6

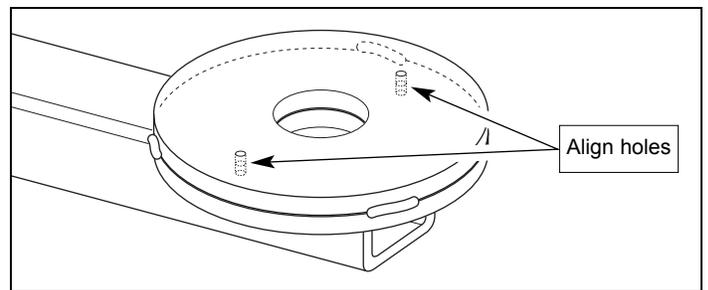


Fig. 7

- 2.3 With a straight edge, align the side arm pivot plates with the fixing plate of the framework - *fig. 6*. If the gap between the two plates is more than 1/4", weld a spacer on the pivot plate of the side arm support - *fig. 7*.

ATTENTION: Make sure holes in the spacer plate are in line with the holes in the pivot plate on the side arm support - *fig. 7*.

- 2.4 Apply grease on the pivot and install the side arm supports then remove the winch. - *fig. 8*.

NOTE: Activate manually the side arms to ensure they pivot freely and they properly sit on the pivot plates.

- 2.5 Install the side arm guides. Screw the adjusting bolt so the nylon pads **lightly touch** the gear, without supporting the weight of the side arm. Tighten the guide bolts - *fig. 9*.

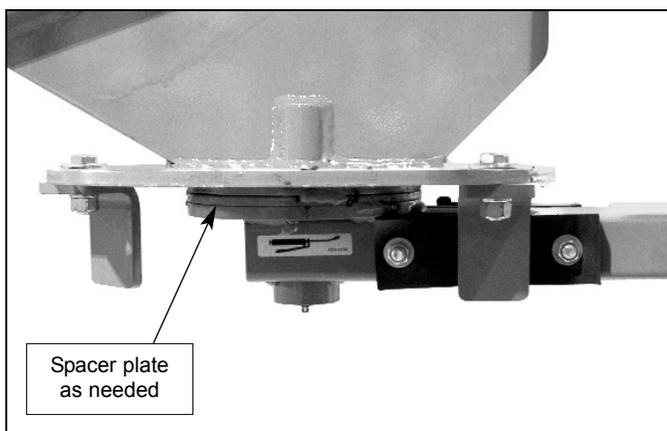


Fig. 8

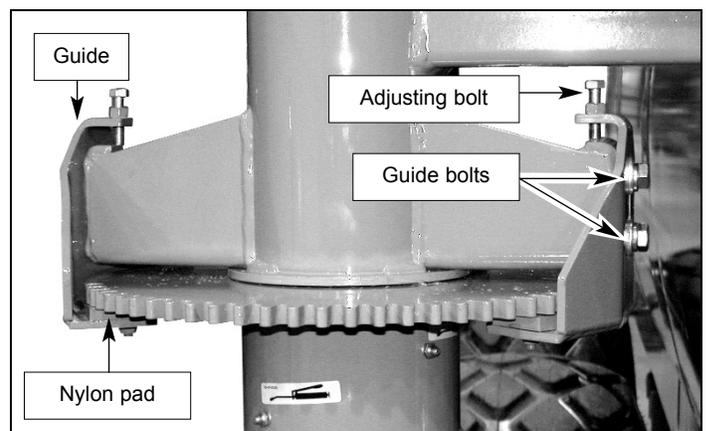


Fig. 9

Tool bar assembly

2. Side arms

2.6. Manually open both side arms until they are parallel to the frame work.

2.7. Compare the level of the tool bar with the level of the spreader. The imaginary line that connects the three deflectors must be parallel to the spreader axles - *fig. 10 and 11*. Assemble the lower nylon shoes and level the tool bar using the spacers - *fig. 12*.

NOTE: The number of spacers can be different on each side of the tool bar. Make sure that the lateral play is approximately 1/16".

2.8 Attach the tool bar frame work to the winch (*see instruction 1.3*) then remove the supporting block. Raise the frame work until the upper nylon shoes are flush with the top of the slides.

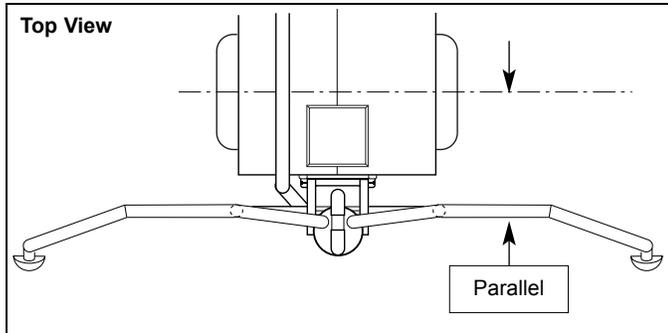


Fig. 10

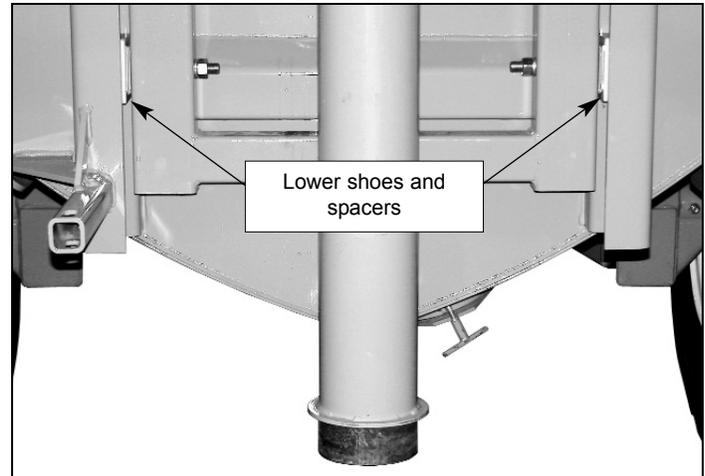


Fig. 12

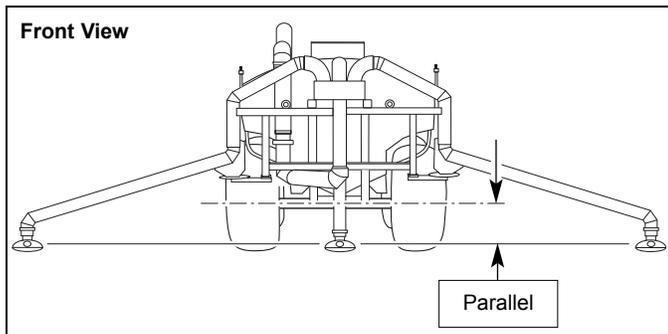


Fig. 11

2.9 Align the motor gear with the side arm gear. Make sure that gears rotate without pressure, then tighten the motor bolts -*fig. 13*.

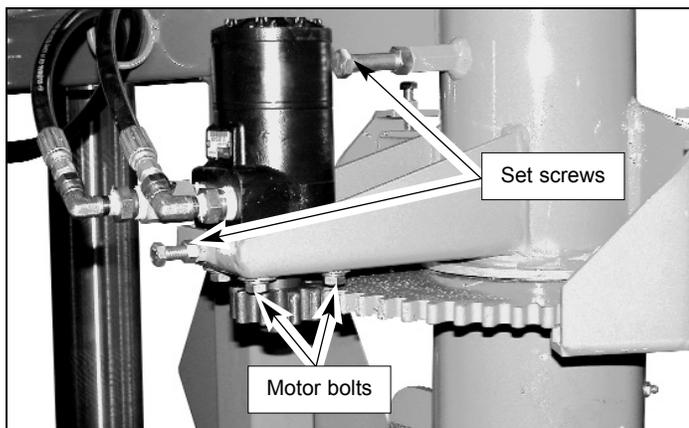


Fig. 13

Tool bar assembly

- 2.10. Grease the deflector adaptors, then assemble the deflectors on the side arms and on the center tube - *fig. 14*.
- 2.11. Pass the four 1/4" hydraulic hoses along the discharge pipe, on the top of the tank, and loosely attach the hoses using stainless steel clamps - *fig. 15*. **Do not tighten the clamps.**
- 2.12. Pass two 1/4" hoses inside the grommet welded on top of the center tube (*fig. 3, page 2*). Connect these hoses to the relief valve of the hydraulic lines **P** and **T** - *fig. 16*.

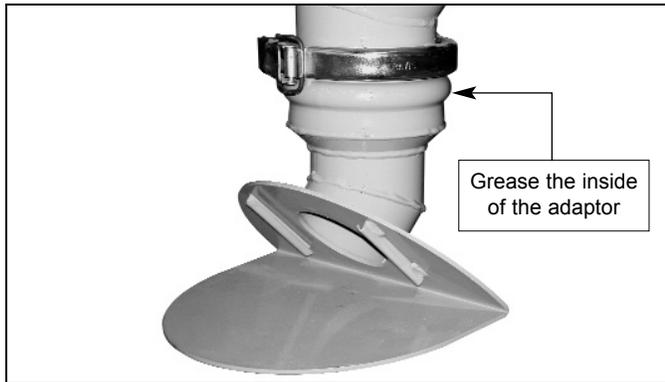
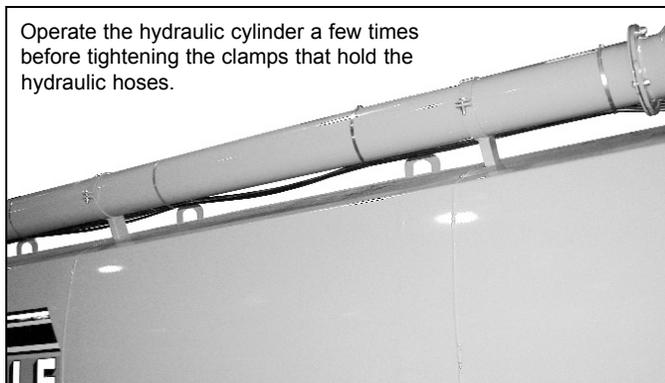


Fig. 14



Operate the hydraulic cylinder a few times before tightening the clamps that hold the hydraulic hoses.

Fig. 15

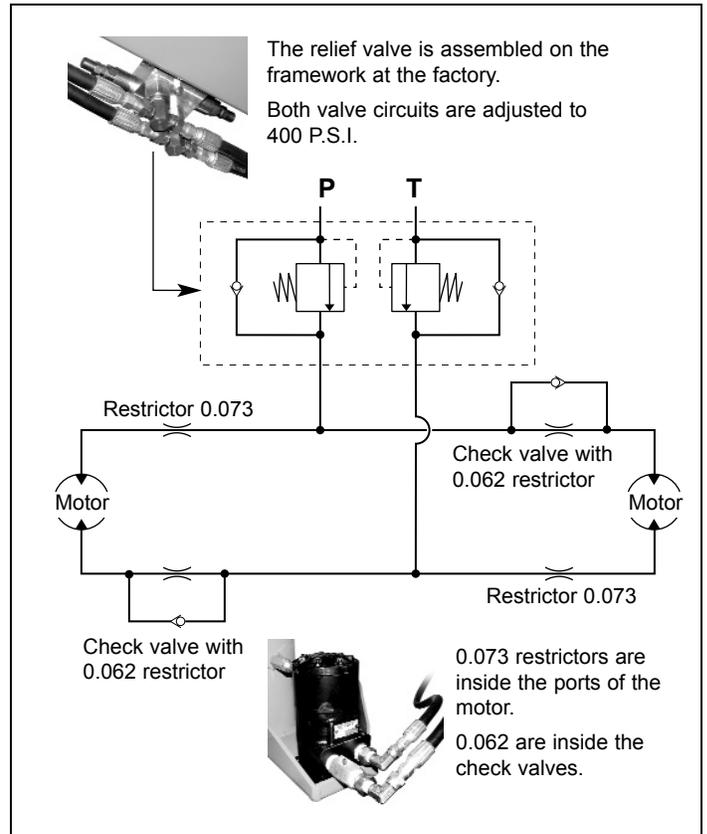


Fig. 16

Tool bar assembly

3. Hydraulic cylinder and U-pipe

- 3.1. Using a winch, lift the tool bar so the upper nylon shoes are flush with the top of the slides.
- 3.2. Grease the intake pipe of the distributor and the adaptor of the U-pipe - *fig. 17 and 18*. Install the U-pipe. Do not tighten the pipe supports and the half-clamps - *fig. 18*.
- 3.3. In order to align the U-pipe with the intake pipe of the distributor, lower the tool bar at 2" from the end of stroke - *fig. 19*. Tighten the U-pipe supports and the half-clamps.
- 3.4. Install the hydraulic cylinder and connect it to a pair of 1/4" hoses - *fig. 17*. Connect this pair of hoses to the hydraulic outlet of the tractor. Remove the winch.
- 3.5. Operate the hydraulic cylinder a few times. Make sure that the 1/4" hoses move freely as the tool bar moves up and down. Tighten the stainless steel clamps that hold the 1/4" hoses on top of the tank.
- 3.6. Connect the discharge pipe of the spreader to the U-pipe using the 8" hose - *fig. 20*.

NOTE: You can rotate the discharge pipe before installing the 8" hose on the U-pipe.

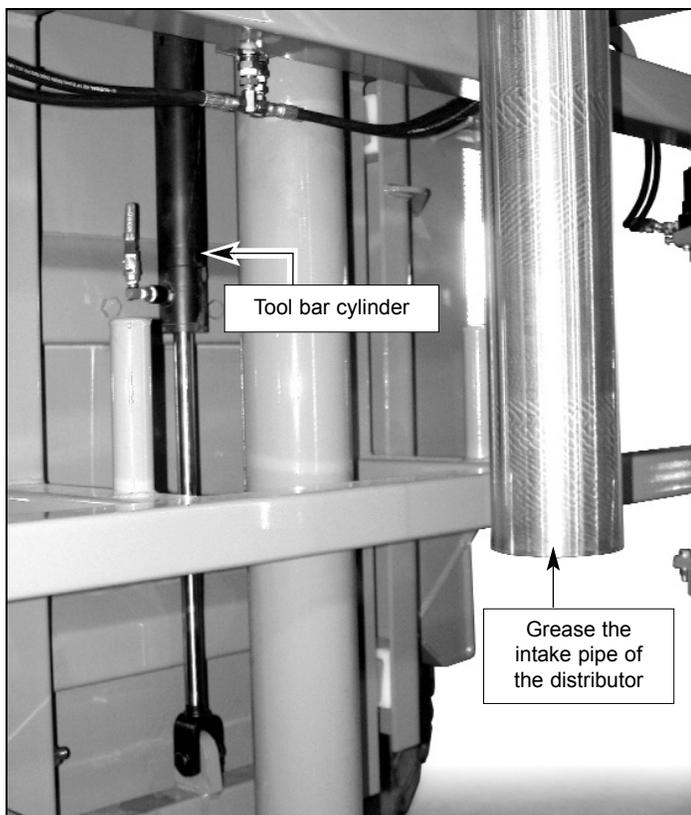


Fig. 17

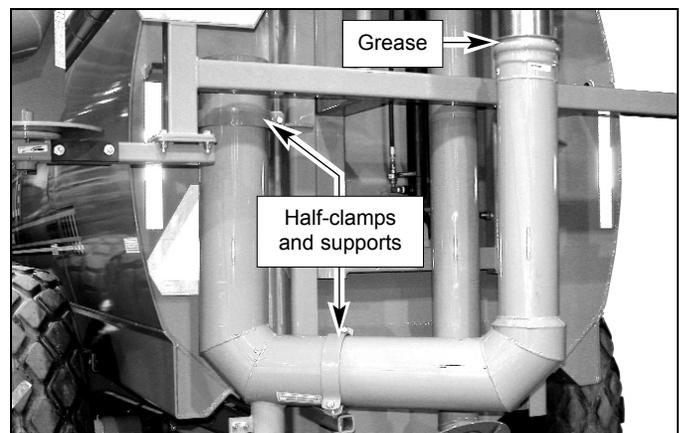


Fig. 18

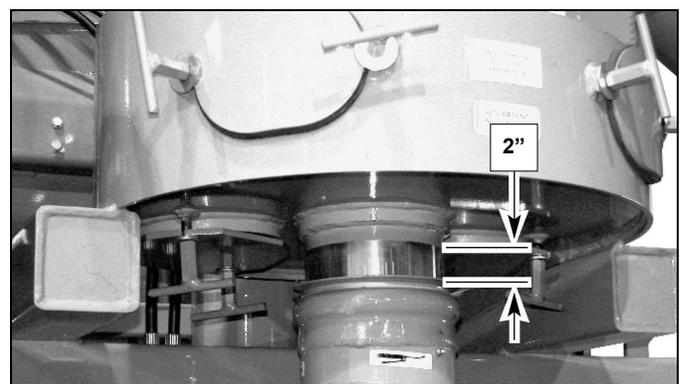


Fig. 19

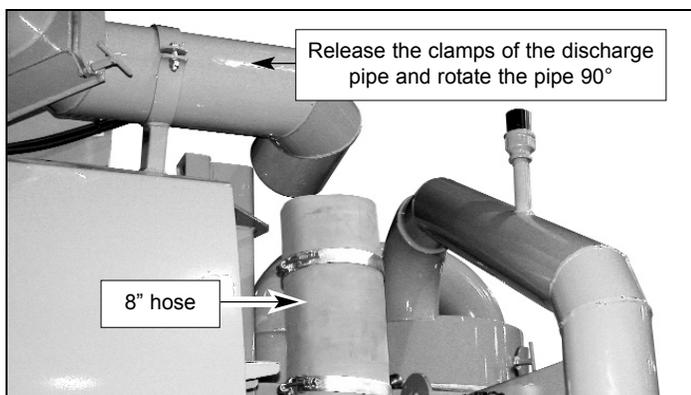


Fig. 20

Tool bar assembly

4. Adjustment of the side arms

4.1. Connect the hydraulic hoses of the motors to the tractor and open side arms fully. The upper arm sections must be parallel to the rear end of the tank - *fig. 21*.

4.2. Set the stoppers that restrain the outward movement of the arms - *fig. 22*.

IMPORTANT: Operate the side arms a few times to make sure that they stop at the wanted position.

4.3. Fold the side arms in so the distance between the inner arm and the U-pipe is approximately 6" - *fig. 23 and 24*. Set the stopper that restrains the inward movement of the inner arm - *fig. 22*.

4.4. Open and fold in the side arms. When folded in, side arms must be approximately 3" from each other - *fig. 23 and 24*. Set the stopper that restrains the inward movement of the outer arm.

IMPORTANT: Operate side arms a few times in order to make sure that they never interfere. Adjust the stoppers if necessary.

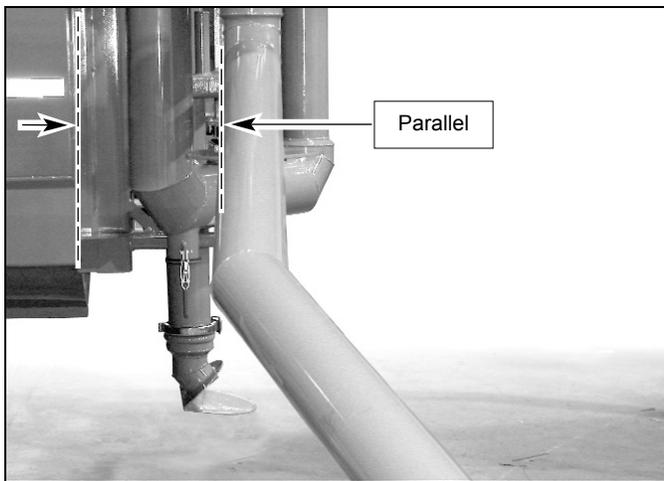


Fig. 21

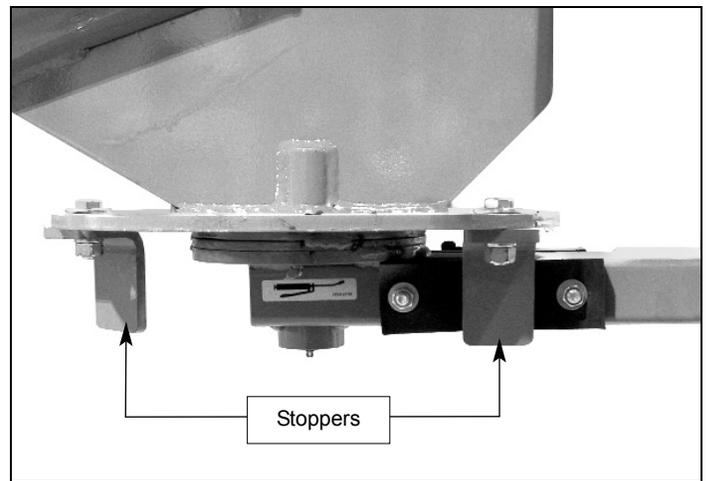


Fig. 22

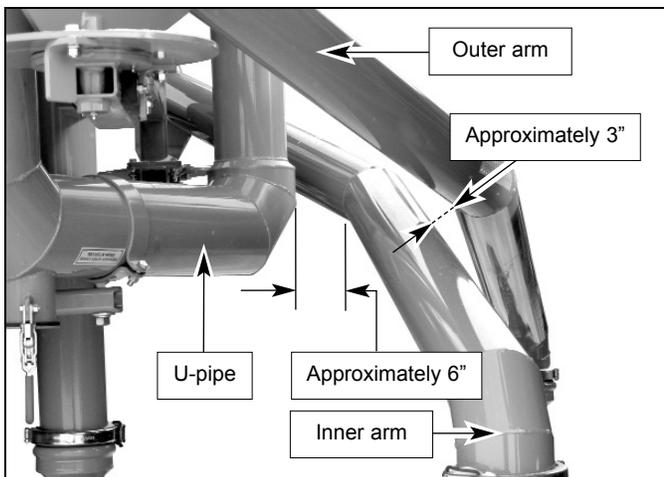


Fig. 23

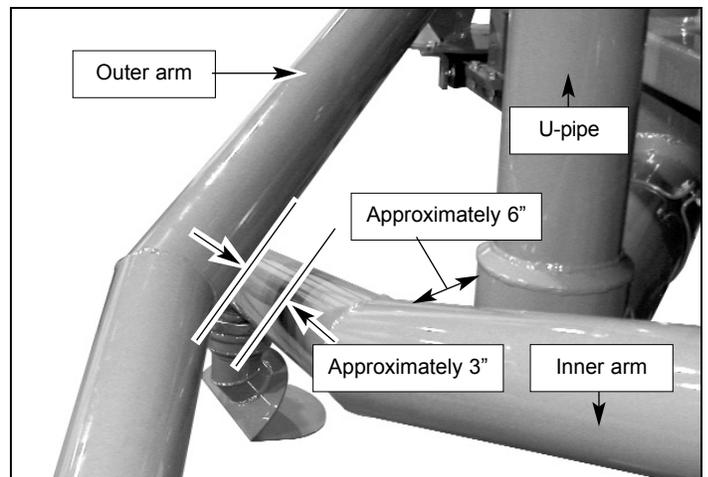


Fig. 24

Tool bar assembly

5. Accessories

- 5.1. Assemble the indicator on the bracket welded at the rear end of the tank. Assemble the ruler on the corresponding side arm - *fig. 25 and 26*.
- 5.2. Assemble the rear signal lights (optional) on the tool bar framework - *fig. 27*.

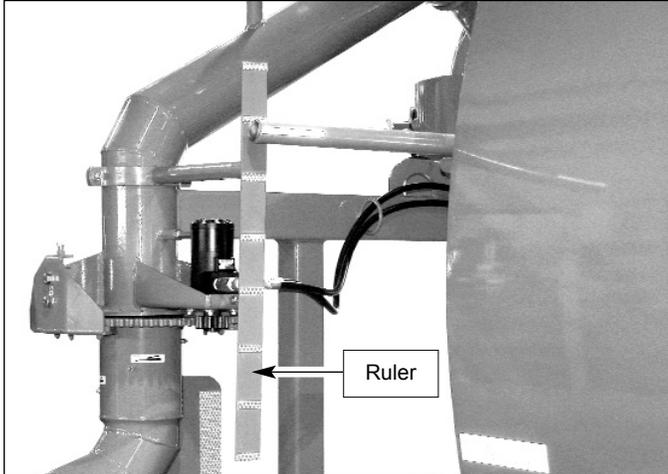


Fig. 25

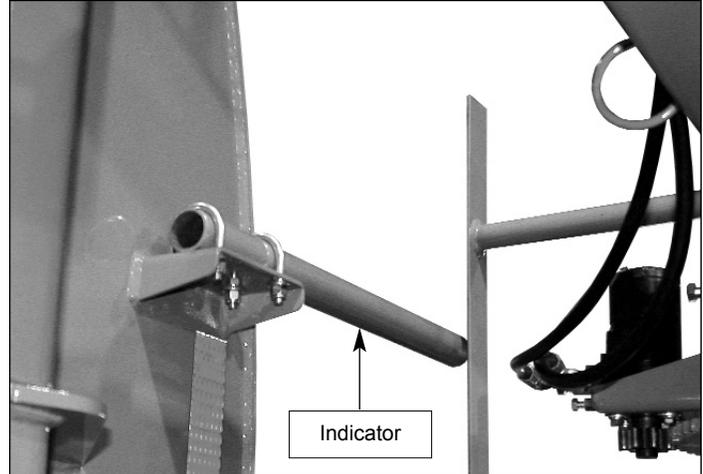


Fig. 26

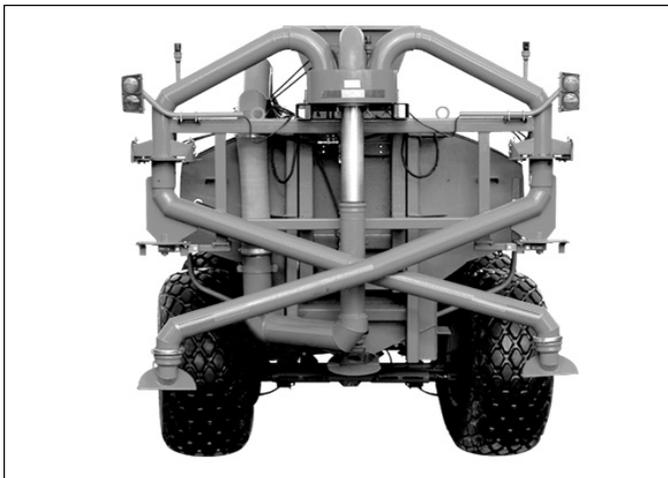


Fig. 27

IMPORTANT

- Grease all moving parts before spreading.
- Once spreading is completed, wash the tool bar using a pressure washer and grease all moving parts.
- Grease the intake pipe of the distributor and the U-pipe sliding seal before storing the tool bar for a long period.



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