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Minneapolis Moline

Operator's Manual

D-300 Series

Pull Type Plow

3-4 Bottoms

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MM-O-D300 SER

Operator's Manual

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MANUAL PREVIEW

JENSALES[®]

D-300 4 BOTTOM PLOW
14" Width of Cut

M.M. Decal
50-A-4719

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Package Numbers for complete assemblies

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No. 541-17" Rippled Blade 201 180 BW	45
Rolling Colters (Anti-Friction Bearings)	
No. 533-18" Plain Blade 200 801 BWB	46
No. 547-20" Plain Blade 201 641 BW	46
No. 534-18" Notched Blade 200 802 BWB	46
No. 542-17" Rippled Blade 201 181 BWA	46
No. 548-20" Rippled Blade 201 642 BW	46
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OPERATING INSTRUCTIONS

For complete tractor operating instructions, tire inflation pressure, and the use of pull type implements, refer to your tractor operator's manual.

Tractor Rear Wheel Settings

Before you attach the plow be sure you have the proper rear wheel settings. Tractors that have wide track front wheels, set the wheels to conform with rear wheel settings.

Check your tractor manual for changing wheel settings.

SUGGESTED WHEEL SPACING CHART

The wheel spacings are measured from inside wall of the rear tractor wheels. Because of the variety of tire widths that can be mounted, inside wall measurements are more accurate.

Proper wheel settings eliminates side draft.

In heavy soil decrease the tractors rear wheels spacing slightly.

In light soil increase the tractors rear wheels spacing slightly.

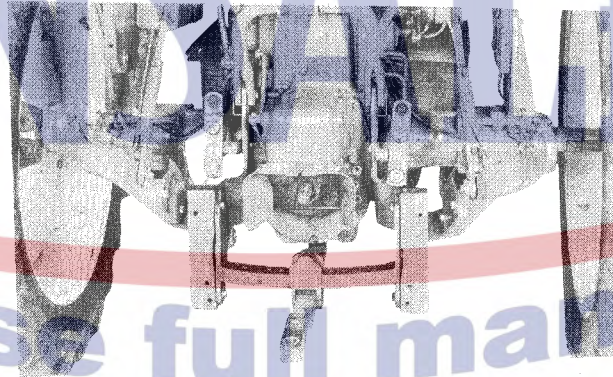


FIGURE 1

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Size of Plow	Rear Wheel Spacing Inside Dimensions
3 - 12"	46"
4 - 12"	58"
3 - 14"	52"
3 - 16"	59"
4 - 14"	66"
4 - 16"	74"



FIGURE 2
Hydraulic Lift Link

For normal plowing bolt the pivot assembly to top hole in hydraulic lift link.

For deep plowing use the 2nd hole in lift link.

Furrow Leveling Link

To plow deep use the end holes in long furrow leveling link.

To open up land use the 2 inside holes on each end of link.

3. Rolling Colters... set plow bottoms, so they are resting on level ground and place a 4 X 4 block under the Colters. The adjustment of the Colter setting on a 4 X 4 block provides penetration of half the plowing depth for Normal 7 to 8 inches of plowing. Colter hubs (1) should be about 2" ahead of plow points (2) for most soil conditions... farther back for dry, hard conditions... farther ahead for trashy moist conditions. Set Colters to run about 3/4" outside of plow shins.

2. Drawbar-Side to Side Adjustment...

Tape shows the plow's line of draft, from tractor hitch point to the plow's center of pull. The center of pull of any one bottom is approximately 3-1/2" to the right of the shin edge and half the depth of plowing.

Plow equipped with more than one bottom the Center of pull is Midway between the Centers of pull of the front and rear bottoms.

With a tape stretched as shown, move the drawbar guide (1) so the plow drawbar is exactly over the line of pull.

For 3 bottom plows it is necessary to hook the rear end of drawbar and drawbar guide to the right or left of plows line of draft.

The Clevis must be hooked in line with the plows Center of pull.

The plow center of pull is approximately 1/2 of tractor rear wheel setting as shown in the chart on page 5.



FIGURE 3

PLOW PROBLEMS & SUGGESTED CORRECTIONS

CAUSE	CORRECTIONS
Poor Penetration	1. Dull Shares A. Replace shares B. Try Flat Shares 2. Hitch too low A. Raise plow drawbar B. Lower tractor drawbar 3. Colters too deep A. Set Colters about 2" to 3" deep 4. Colters too far forward A. If possible, the colter hub center should be over the share point. 5. Improper heel clearance The heel should make a slight impression on the furrow bottom <u>Plow tails to the furrow wall</u> A. Decrease tractor wheel spacing
Plow runs crooked (not parallel to furrow wall)	1. Improper tractor wheel spacing <u>Plow tails away from furrow wall.</u> A. Move plow drawbar toward the unplowed ground, or increase the rear wheel spacing. 2. Plow drawbar not adjusted properly A. The tail wheel should run parallel to or lead slightly away from the furrow wall. 3. Tail wheel out of adjustment A. The disc jointer arm should be parallel with the plow beams. (The Jointer blade should lead into the land and not toward the plowed ground) 4. Disc Jointers out of adjustment. A. Jointers should not be set over 2" deep or the leading edge of the colter blade could be turned toward the plowed land by the jointer side draft. 5. Jointers turning colters A. Level plow frame from side to side.
Uneven Furrows	1. Plow frame not level A. Level plow frame from side to side. 2. Colters and Jointers not set alike A. Set the rear colter so it leaves a clean furrow wall. Then set the other colter the same as the one in the rear. 3. Hitch out of Adjustment (Front Bottom cuts too wide) A. Move plow drawbar to the left B. Decrease tractor wheel spacing. (see page 8 for instructions)

SETTING UP INSTRUCTIONS
FOR
3 & 4 BOTTOM PLOWS

Whenever the terms (RH) right hand and (LH) are used in these instructions, it is understood to mean from behind and facing in the direction of machine travel.

The plow beam assembly is set up at 14" and 16" width of cut for three bottoms at the factory.

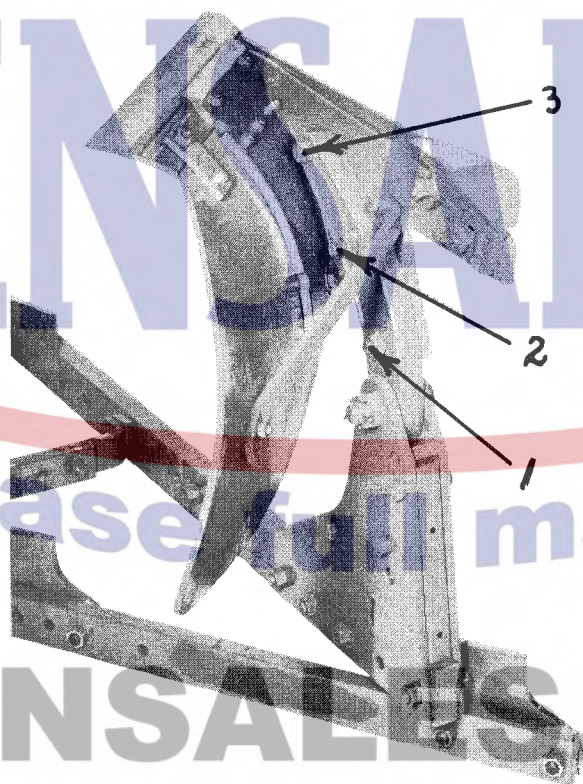


FIGURE 9
ASSEMBLY OF BOTTOMS

Assemble the bottom with the longer landside in the rear position. Attach the bottoms to the beams with the three bolts (1,2,&3). Pull upward on point of share while tightening nuts, so as to take all bolt hole slack out of bottoms.