

SETTING UP, OPERATING INSTRUCTIONS AND PARTS BOOK

**NO. 4240 SERIES PLOWS
TWO AND THREE BOTTOM
HYDRAULIC OR MECHANICAL LIFT**



OLIVER CORPORATION

SOUTH BEND 21, INDIANA . . . U.S.A.



FIGURE 1
RH VIEW OF NO. 4240
THREE BOTTOM PLOW (HYDRAULIC LIFT)

INTRODUCTION TO YOUR 4240 PLOW

This booklet contains the Setting Up, Operating Instruction and Parts for your Plow. This information will enable you to become more familiar with its operation and to get the best possible service.

The No. 4240 comes as a two or three bottom plow which can be set for 12", 14" or 16" widths of cut. The plow is set at 14" with Hydraulic lift and plain wheel bearings at the factory. Mechanical lift and anti-friction wheel bearings must be specified if desired. The plow comes equipped with Spring Trip Bottoms.

The following equipment is available on the No. 4240 Plow.

1. Rolling Colters.
Plain & cutaway Blades 16" or 18".
Chilled Bearings on the 16" or 18" colter
Anti-Friction Bearings on the 18" colter only
2. Combination Jointers
3. Disc Jointers (Sealed Bearings)
4. Moldboard Jointers
5. Independent Jointer
6. Wide variety of bottoms to fit all soil conditions.

Model Number	#4240 Plow
Serial Number	
Date of Purchase	

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Storage... your plow should be stored out of the weather when not in use. Bottoms should be greased before storing.

Lubrication ... all fitting should be greased before using, and at least every 10 hours of plowing.
More often under dusty conditions.

ORDERING REPAIR PARTS

Always list the Model Number and complete Serial Number of implement. Refer to the Parts list for correct Part Number. Specify whether the part is right hand or left hand, when similar parts are used on both sides of the Implement. Order hardware by Part Number or standard description. The * asterisk sign after the part number indicates this is a new part and is not interchangeable. Check the index of this book under Repair Parts List for Old Numbers.

SAFETY SUGGESTIONS

The machine you are operating is only as safe as the person who operates it.

Always, shut off the tractor engine when leaving the tractor.

Be careful when operating on hillsides, because the tractor may tip sideways if it strikes a hole, ditch or other irregularity.

Never clean, lubricate or adjust a machine that is in motion.

Remember, an accident is usually caused by someones carelessness, neglect or oversight.

The best safety device is a careful operator.

Experience in Safety, is not the mark of injuries that comes from being careless, take your time! !

SETTING UP INSTRUCTIONS FOR NO. 4240 TWO AND THREE BOTTOM DRAWN PLOWS

The assembly of this plow is the responsibility of the Oliver dealer.
The implement should be delivered completely assembled.

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

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

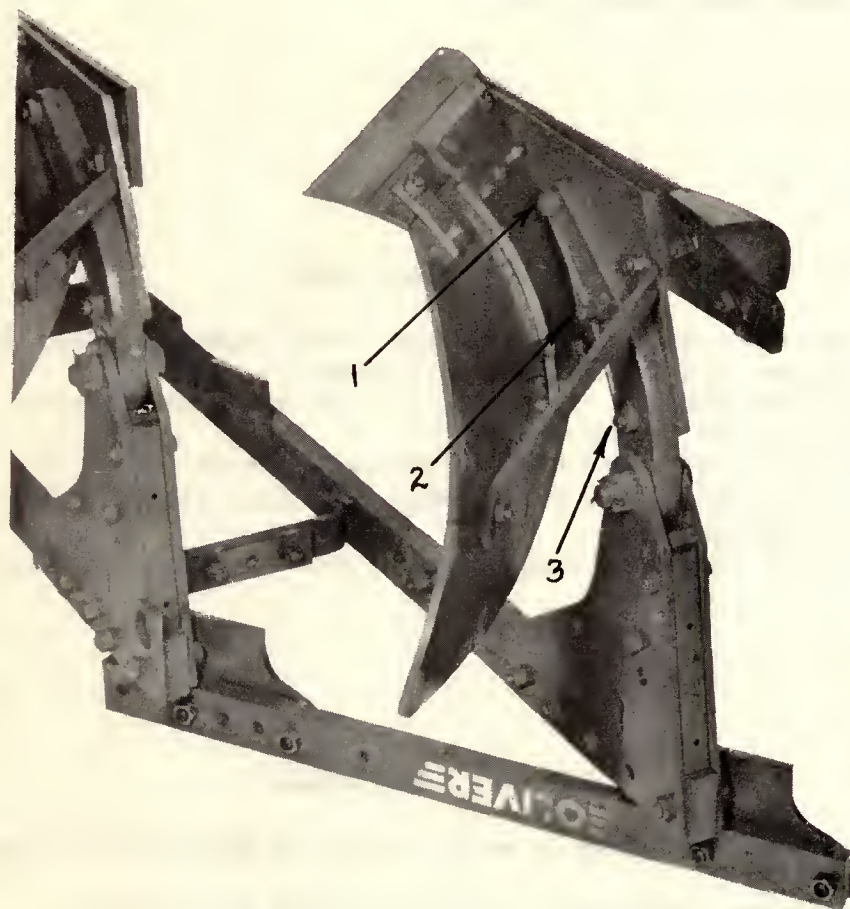


FIGURE 3

- 1 -

ASSEMBLY OF BOTTOMS TO BEAMS

Turn the beams to an upside down position to assemble the bottoms.
Assemble the bottom with the longer landside in the rear position.
Attach the bottoms to the beams with the three bolts (1), (2) and (3).
Pull upward on point of share while tightening nuts so as to take all bolt hole slack out of bottoms.
Turn beams to an upright position so that bottoms rest on ground to complete plow assembly.

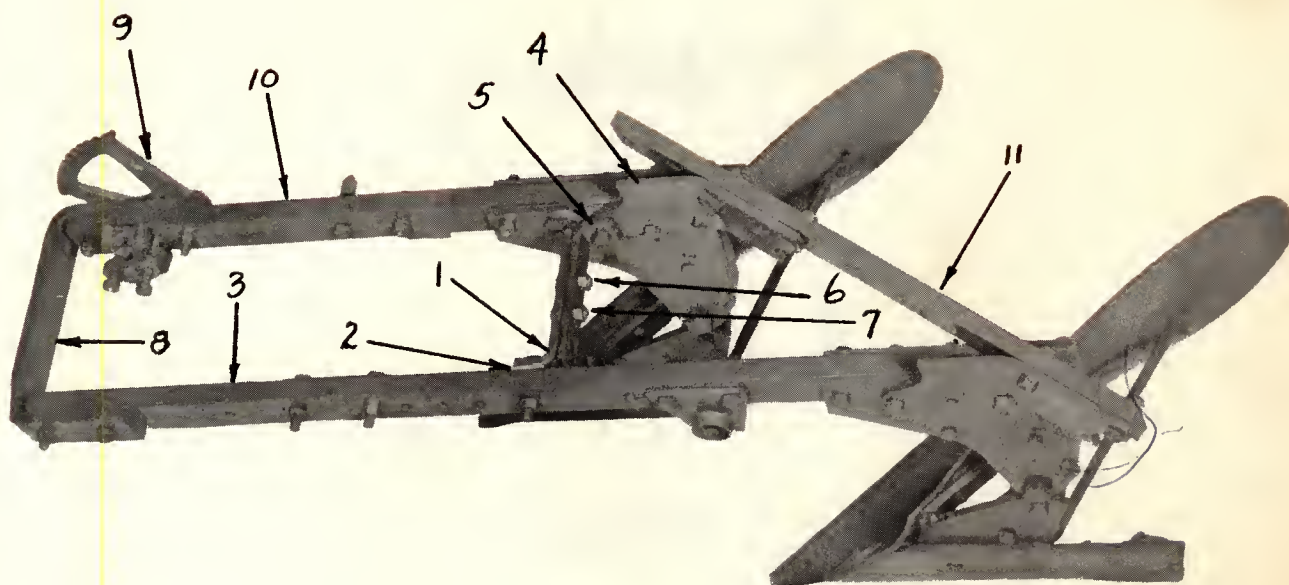


FIGURE 4

- 2 -

TWO BOTTOM PLOW 12" CUT BEAM SPACING

The frame brace (1) and block (2) are assembled to the (RH) side of 2nd beam (3).

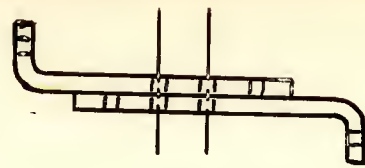
The cross bar bracket (4) and frame brace (5) are assembled to the first beam gusset plate with the three bolts as shown.

The frame braces are adjusted for 12" width (Refer to Figure 5) and assembled together with the two bolts (6) and (7).

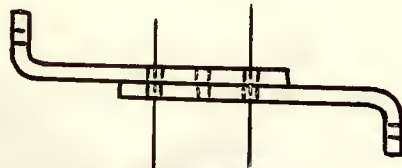
The (RH) end of the front brace (8) and sector (9) are bolted to the outside of the 1st beam (10).

The (LH) end of front brace is attached on the outside of 2nd beam as shown.

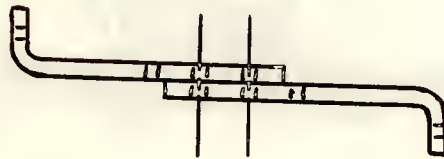
The cross bar (11) is attached to the cross bar brackets with the four bolts.



12" PLOW



14" PLOW



16" PLOW

FIGURE 5
FRAME BRACE ADJUSTMENT

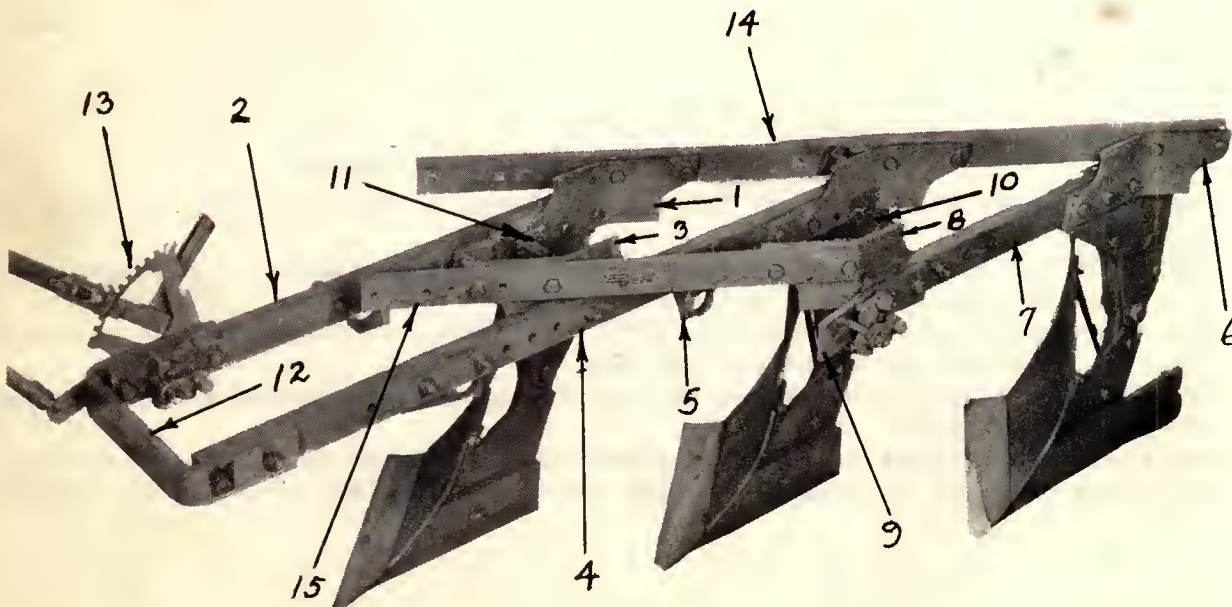


FIGURE 6

THREE BOTTOM PLOW 12" CUT BEAM SPACING

Assemble the cross bar bracket (1) Figure 6 on the first beam (2) as shown. The front cross bar bracket (3) (TP-3010) is assembled on the (RH) side of 2nd beam (4) using the 2 holes just ahead of the land axle bearing (5). The rear cross bar bracket (6) on the 3rd beam (7) is assembled as shown. The front cross bar bracket (8) (TP-3010) is assembled on the 3rd beam using the 1st, 2nd and 3rd holes in the beam. The colter bracket (9) is assembled on the 3rd beam using the 1st and 2nd holes in the beam. Refer to Figure 5 for 12" width adjustment of frame braces (10) and (11) and assemble braces as shown. The (RH) end of the front brace (12) and sector (13) are assembled to the outside of the 1st beam. The (LH) end of front brace is attached to the outside of 2nd beam as shown. The rear cross bar (14) is bolted to the 3 cross bar brackets as shown. The front cross bar (15) is bolted to the 2 front cross bar brackets (TP-3010).

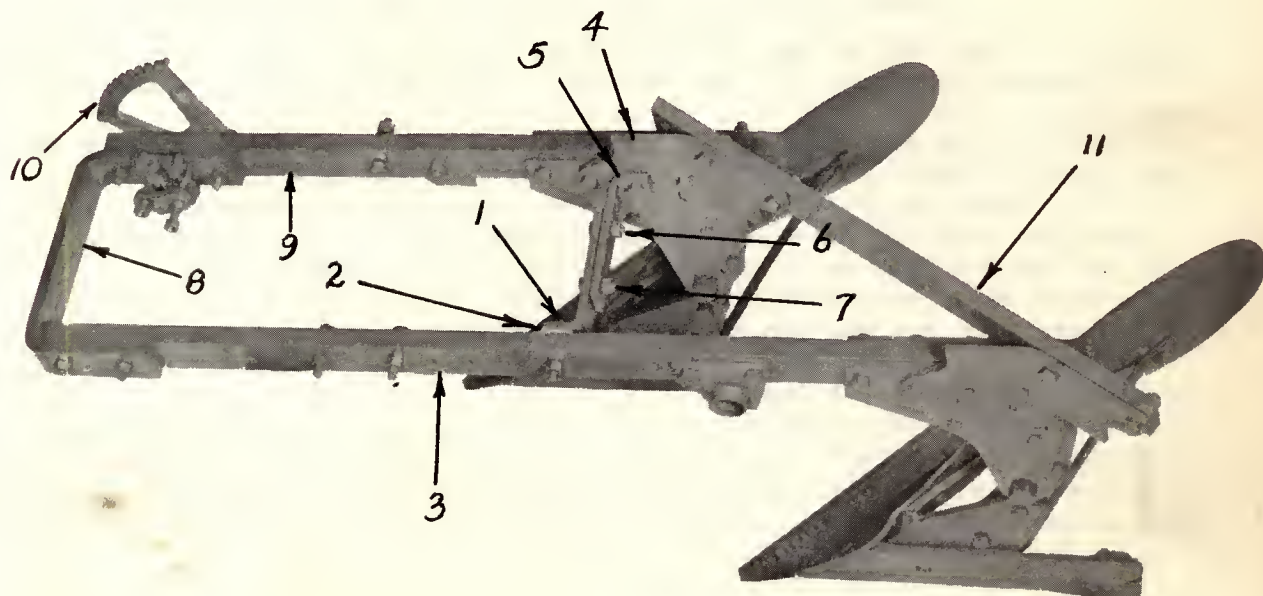


FIGURE 7

- 4 -

TWO BOTTOM PLOW 14" CUT BEAM SPACING

The plow is assembled for 14" width of cut at the factory. The frame brace (1) and block (2) are assembled on the (RH) side of 2nd beam (3). The cross bar bracket (4) and frame brace (5) are assembled to the first beam gusset plate with the three bolts as shown. The frame braces are adjusted for 14" width (Refer to Figure 5) and assembled together with the two bolts (6) and (7). The ends of the front brace (8) are positioned on the (LH) side of the 1st beam (9) and 2nd beam. The sector (10) is attached to the (RH) side of 1st beam. The cross bar (11) is bolted to the cross bar brackets as shown.

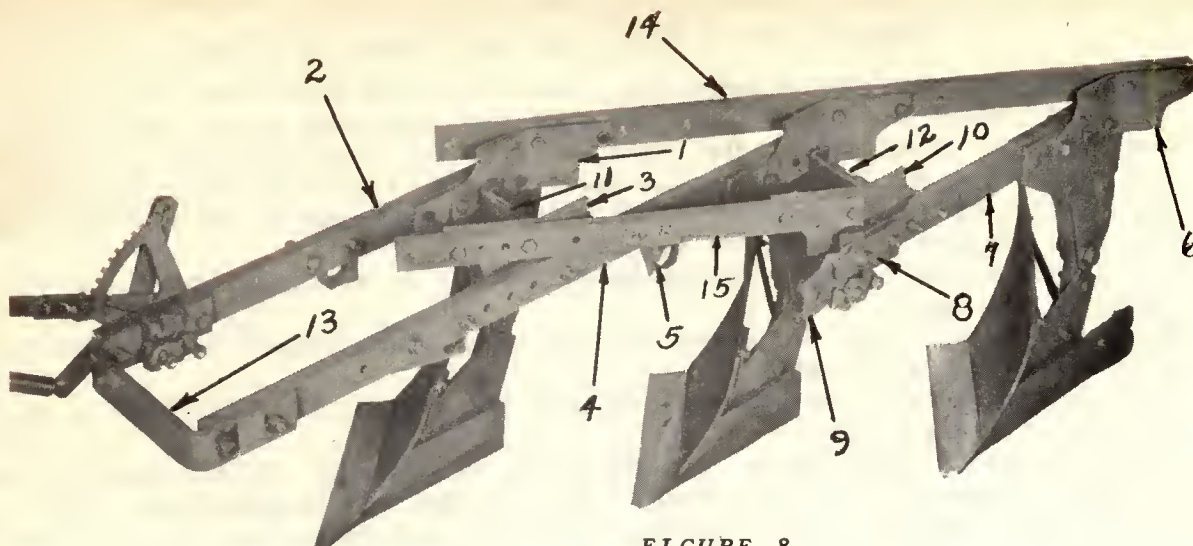


FIGURE 8

- 5 -

THREE BOTTOM PLOW 14" CUT BEAM SPACING

The plow is assembled for 14" width of cut at the factory.

The cross bar bracket (1) is assembled on the 1st beam (2) and gusset plate as shown.

The front cross bar bracket (3) (TP-3010) is assembled on the (RH) side of the 2nd beam (4) using the two holes just ahead of the land axle bearing (5).

The rear cross bar bracket (6) on the 3rd beam (7) is assembled as shown.

Insert the bolt (8) through 1st hole in the beam and assemble colter bracket (9) on the 3rd beam using the 1st and 2nd holes in the beam.

The front cross bar bracket (10) (TP-3010) is assembled on the 3rd beam using the 2nd, 3rd and 4th holes in the beam.

Refer to Figure 5 for 14" width adjustment of frame braces (11) and (12) and assemble the braces as shown.

The ends of the front brace (13) are positioned to the (LH) side of the 1st and 2nd beams and the sector to the (RH) side of beam and assemble as shown.

The rear cross bar (14) is bolted to the 3 rear cross bar brackets as shown.

The front cross bar (15) is bolted to the 2 front cross bar brackets (TP-3010).

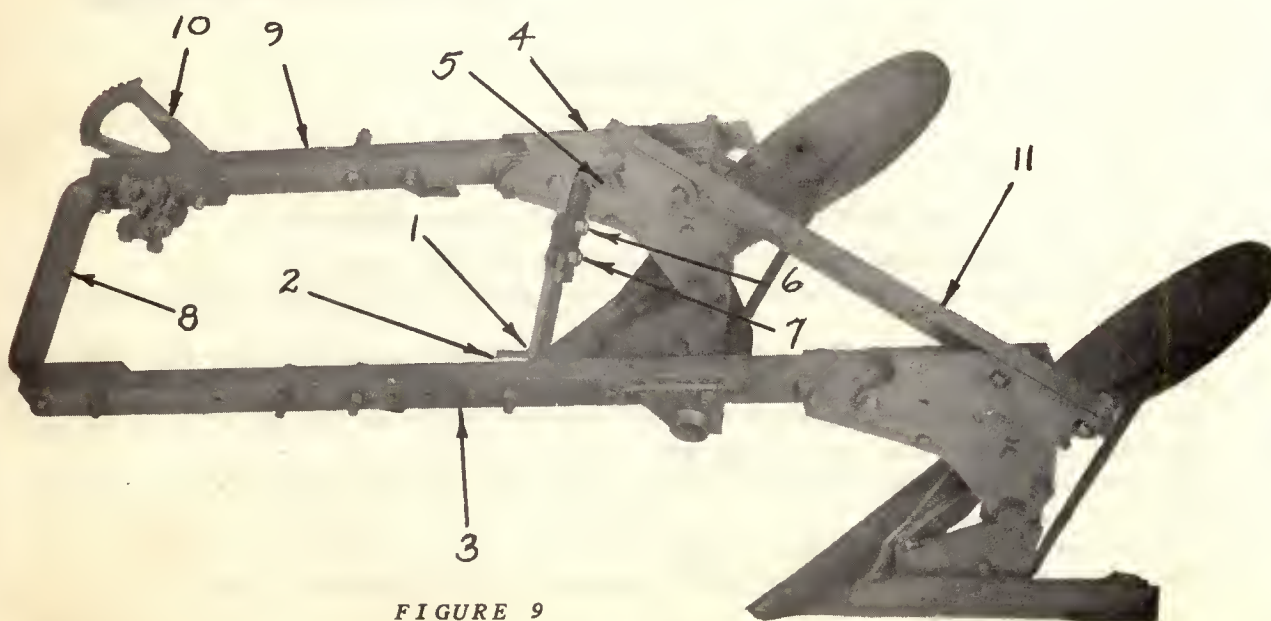


FIGURE 9

The cross bar (11) is bolted to the cross bar brackets as shown.

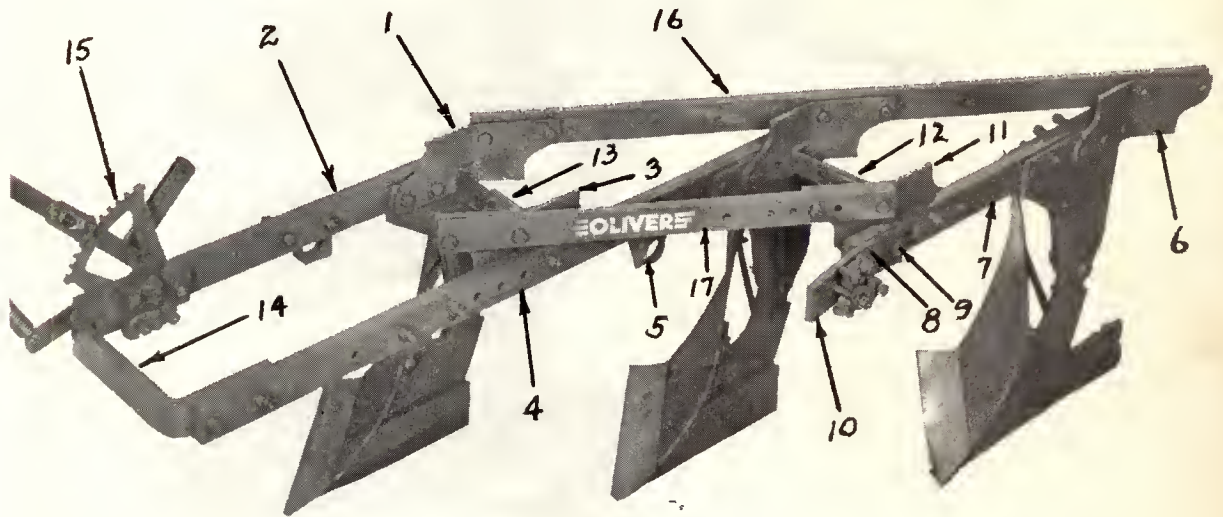


FIGURE 10

- 7 -

Bolt the front cross bar (17) to the two front cross bar brackets (TP-3010).

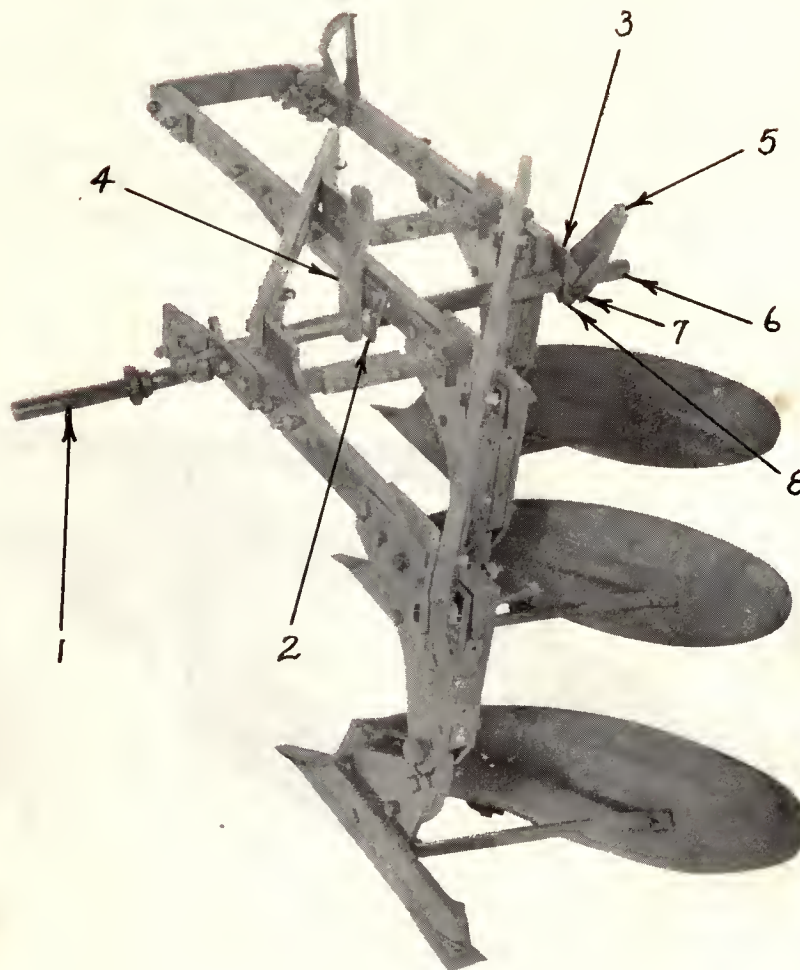


FIGURE 11

- 8 -

LAND AXLE - ASSEMBLY

The land axle (1) is inserted from left to right through the bearings (2) and (3) on the 1st and 2nd beams, placing welded arm (4) up against the bearing as shown.

Insert the key of the leveling arm (5) into the keyway (6) in the axle and slide leveling arm against the bearing.

The leveling arm must be securely attached with the two bolts (7) and (8).

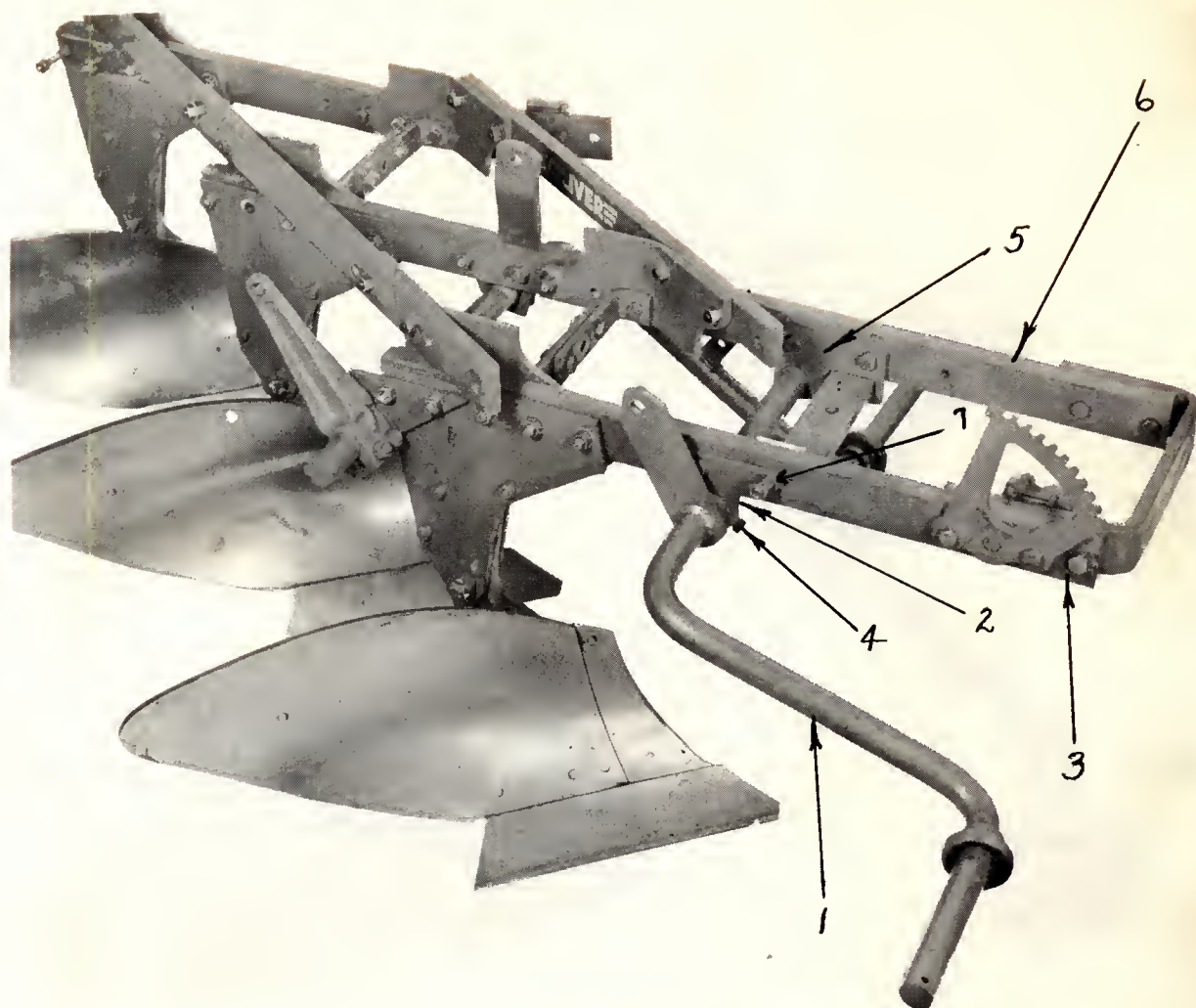


FIGURE 12

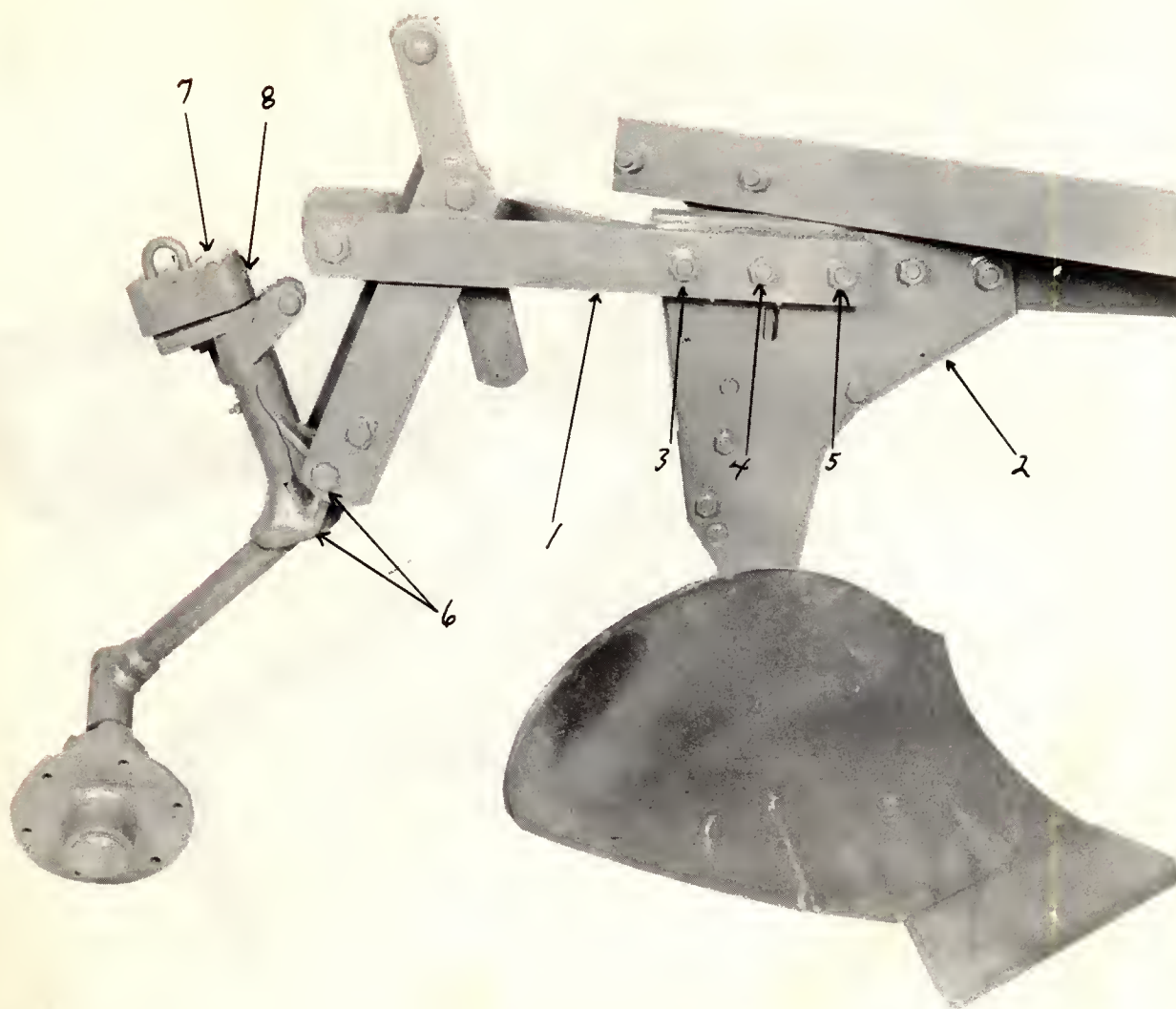
-9-

FURROW AXLE ASSEMBLY

The furrow axle (1) is inserted from right to left through the bearing (2) on the first beam (3) then slide set screw collar (4) on the axle. Axle is then inserted through the bearing (5), on the second beam (6), so the arm welded on the axle is up against the bearing on the first beam. The set screw collar is then positioned against the (L.H.) side of bearing on first beam and the set screw is tightened in spot to hold the furrow axle in position.

NOTE: Make sure the stop bolt (7) has a double nut, this bolt acts as a stop for the furrow axle.

If axle goes past center, the load from the cylinder will break the lever arm casting.



-10-

REAR WHEEL ASSEMBLY

The rear wheel is assembled to either the 2nd. or 3rd. beam, depending whether a two or three bottom plow is being assembled. The rear wheel bracket (1) is attached to the last three holes on the (RH) side of the beam and gusset plate (2) with the three bolts (3), (4) and (5).

The sleeve (6) is bolted as shown.

The rear axle is secured in the adjusting arm (7) by a double rollpin (8) 5/16" x 2 1/2" Rollpin inserted in 1/2" x 2 1/2" Rollpin.

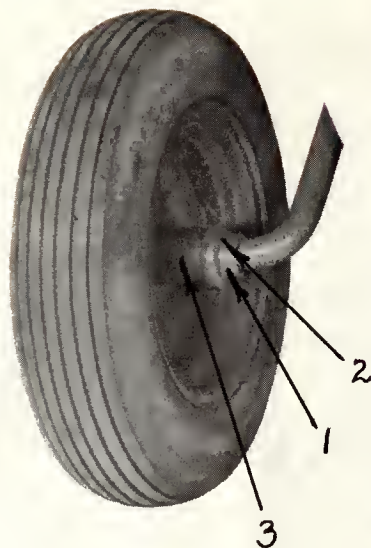


FIGURE 14

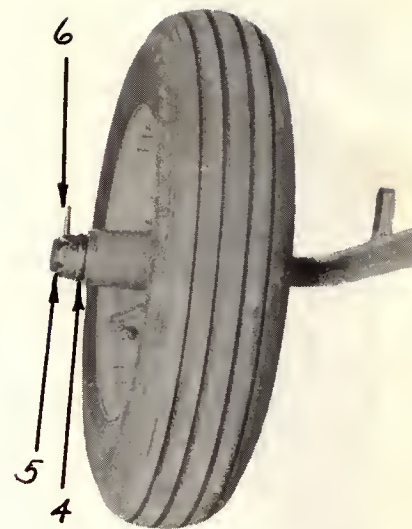


FIGURE 14A

- 11 -

FURROW WHEEL - LAND WHEEL (HYDRAULIC)

Furrow wheel hub and land wheel hub are mounted on the axles in the same manner for hydraulic lift plows.

The sand band (1) Figure 14 is positioned on the axle as shown and attached by means of a roll pin (2) inserted through the sand band and axle.

Remove the hub cap and slide the wear washer and hub (3) on the axle until hub and washer are against the sand band.

The hub is held in place by sliding washer (4) Figure 14A and step washer (5) on the end of axle and insert a linch pin (6) through one of the adjustable notches in step washer and hole in axle.

Re-assemble the hub cap on wheel hub.

The wheel is attached to the hub by means of the 6 lug bolts.

NOTE: If plow is set for 16" width of cut it is necessary to reverse furrow wheel on the hub, with the offset or dish of the wheel to the outside to provide clearance between the wheel and furrow wall.

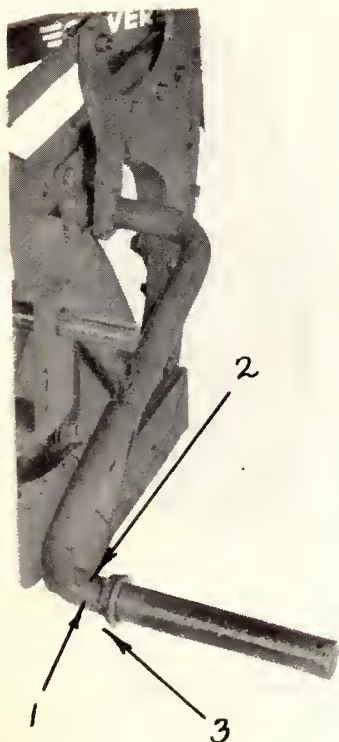


FIGURE 15

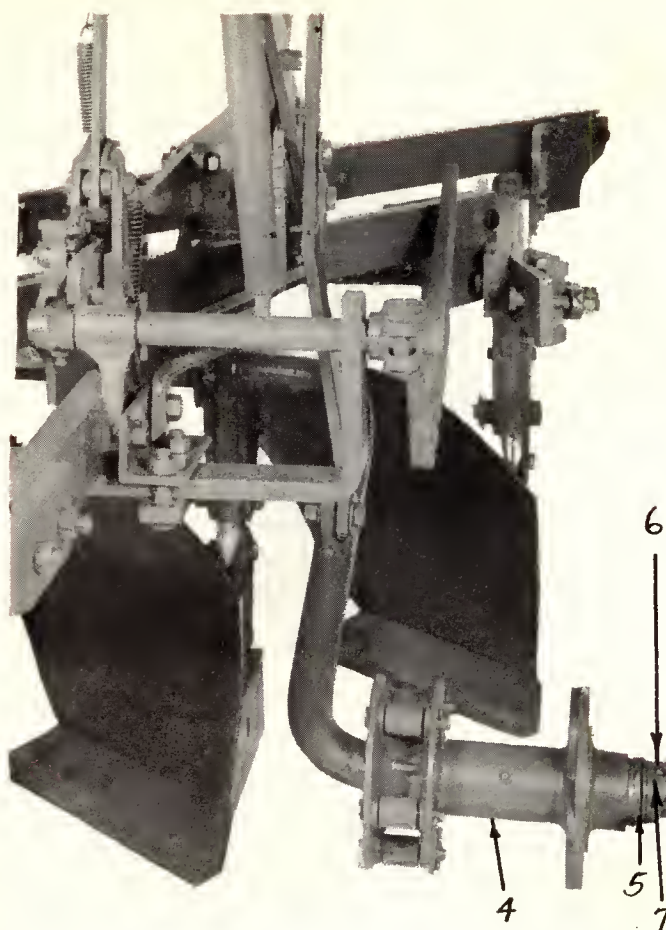


FIGURE 15A

- 12 -

LAND WHEEL - (MECHANICAL)

Slide the step washer (1) Figure 15 on the axle and secure with roll pin (2) inserted through one of the adjustable notches in step washer and hole in axle.

Then place the wear washer (3) on axle against the step washer.

Remove hub cap and slide the hub assembly (4) Figure 15A on the axle and over the wear washer and step washer.

The hub assembly is held in place by sliding a wear washer (5) and step washer (6) on the end of axle and inserting a roll pin (7) through one of the adjustable notches in step washer and hole in axle.

Re-assemble hub cap on wheel hub.

NOTE: Do not attach the wheel to the hub until the rack has been attached to the trip shaft.

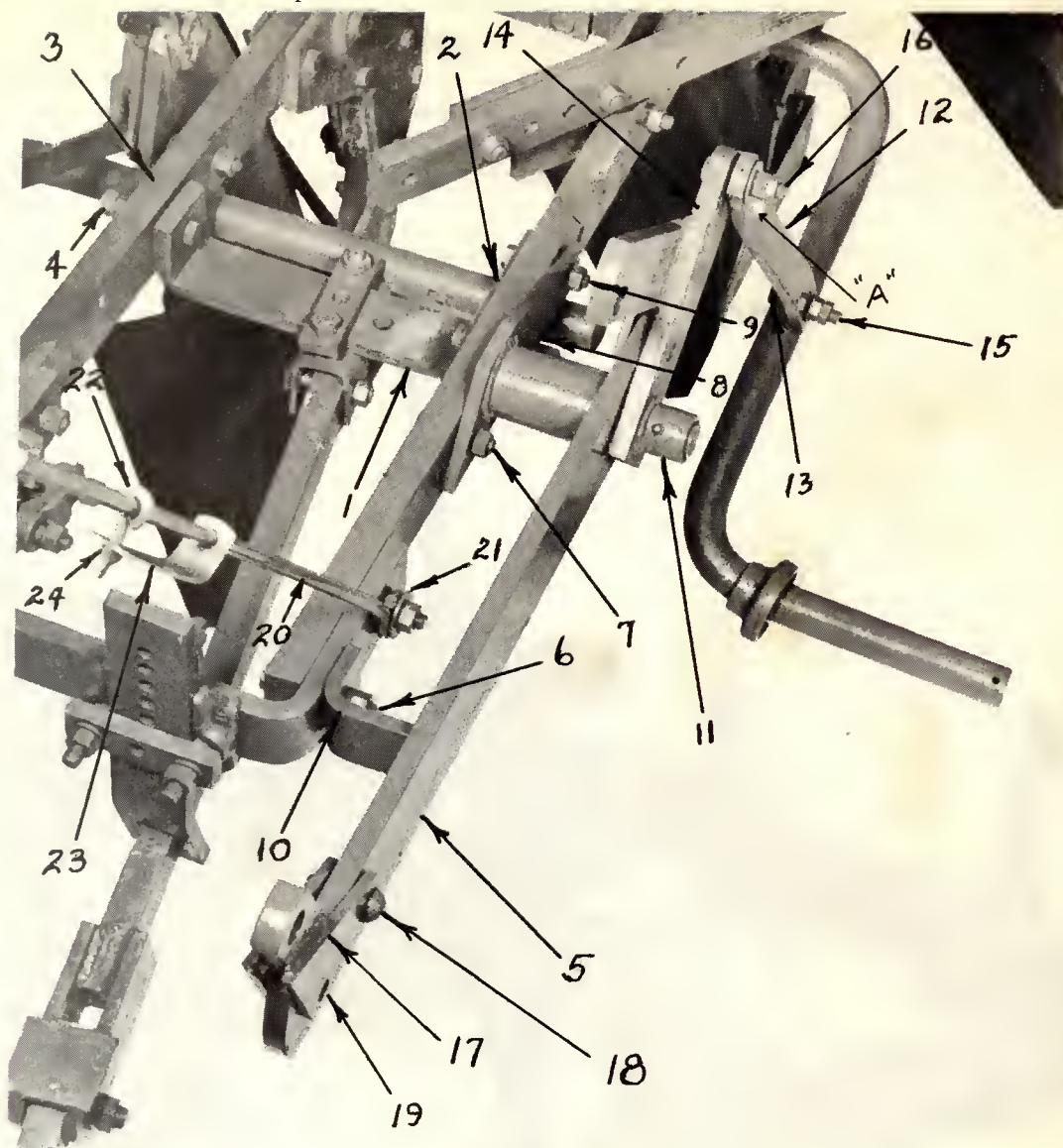


FIGURE 16

- 13 -

CROSS BAR - CYLINDER SUPPORT

The cross bar (1) is inserted through the slot in furrow axle bearing (2) on 2nd beam and attached to the (LH) side of first beam (3) with the bolt and double nuts (4) as shown.

The cylinder support assembly (5) is attached to the (LH) side of 2nd beam with the 4 bolts (6), (7), (8) and (9).

When the cylinder support assembly is attached to a plow set at 16" width of cut a spacer is placed on the bolt between the 2nd beam and bracket (10) welded on cylinder support.

Slide the pivot assembly bearing (11) on the shaft of the cylinder support assembly as shown.

The lift link (12) is assembled to the welded lug (13) on axle and lift arm (14) welded on pivot assembly with the bushings and bolts (15) and (16).

The cylinder anchor (17) is attached to the 2nd hole in cylinder support assembly with the pin (18) and secured with cotter pin.

The other hole (19) in cylinder anchor is for lock up pin when plow is in use with cylinder connected.

The Lift Link (12) is set for Regular Plowing.

For Deep plowing use Hole (A).

- 14 -

HOSE ROD - ASSEMBLY

The eye of the hose rod (20) Figure 16 and washer (21) are attached on the rear bolt through 2nd beam and end of front brace.

Slide the eyebolt (22) and clamp (23) on the hose rod as shown.

Place the wing nut (24) on the eye bolt to hold hose in position.



FIGURE 17

- 15 -

CROSS BAR - MECHANICAL LIFT DEVICE

Loosen set screw (1) in set screw collar on furrow axle and slide axle out of bearing (2) on 2nd beam.

Detach the bearing from 2nd beam and insert the cross bar (3) through the slot in bearing and attach the bearing on the 2nd beam with longer bolt in rear hole.

Slide the cross bar to the left and insert the trip shaft (4) through the hole (5) in cross bar.

Then bolt the short end of cross bar to (LH) side of first beam with bolt (6) and double nuts.

NOTE: On plows set at 12" width of cut the crossbar (3) must be assembled to the (RH) side of 1st beam.

Assemble the lift shaft bearing bracket (7) and support bracket (8) on the two bolts (9) and (10).

NOTE: Do not assemble the nut on bolt (10) until after sector brace is attached.

The strap (11) is attached underneath the cross bar with the two bolts (12) and (13) as shown.

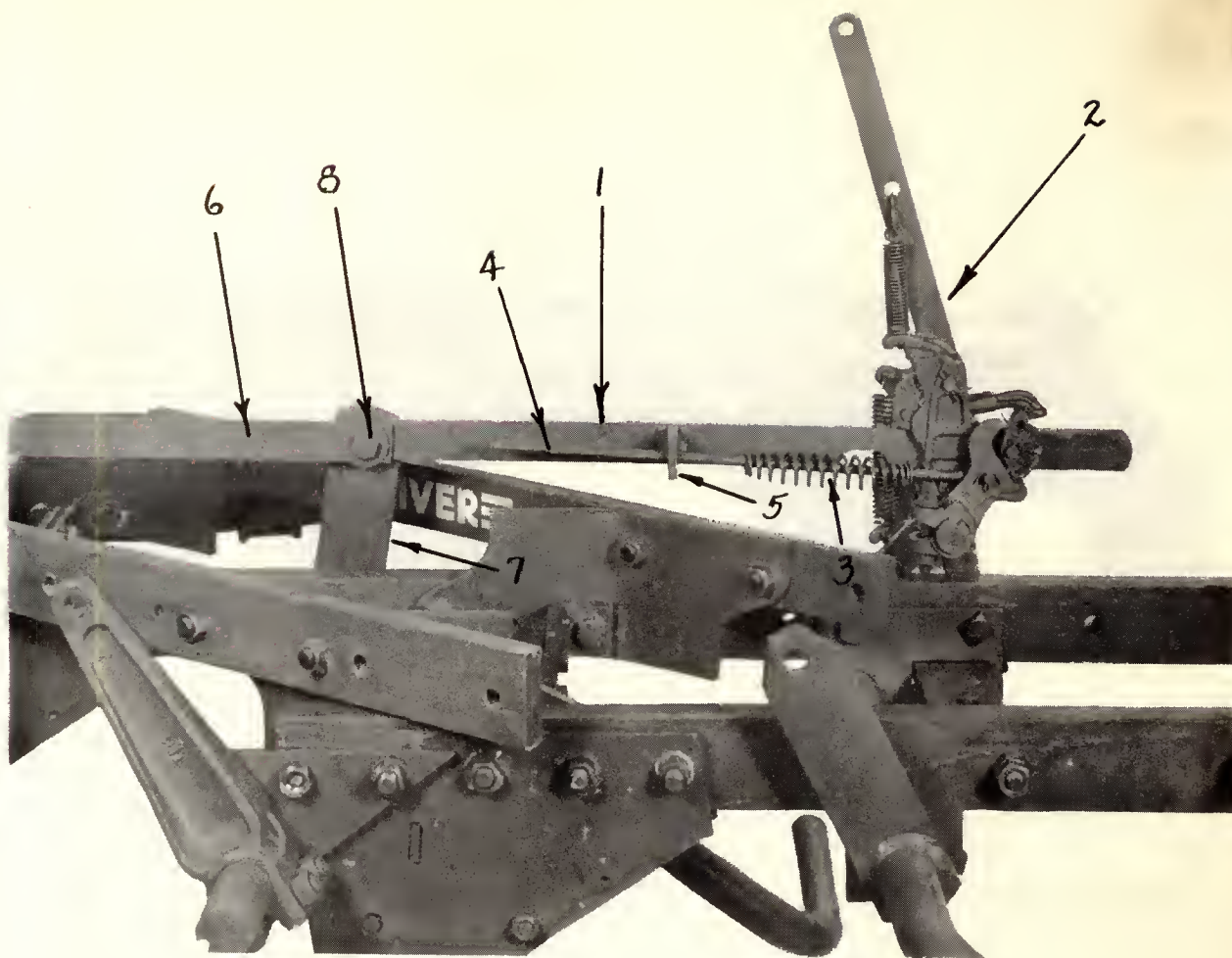


FIGURE 18

- 16 -

LIFT BAR - REAR WHEEL LIFT STRAP (MECHANICAL)

The lift bar (1) is assembled by releasing the trip lever (2) and inserting the lift bar with the notch down and towards the front into the trip lever assembly.

Place spring (3) on rod (4) and insert the end of spring rod in the lug (5) on lift bar.

On 2 bottom plows the rear end of lift bar and first hole in front end of rear wheel control strap (6) are attached to the arm (7) on land axle with the washer, bushing and bolt (8).

On 3 bottom plows the rear end of lift bar and short bent end of lift strap extension are attached to the arm on axle, with the washer, bushing and bolt. The lift strap is always assembled with the long slot attached to the rear wheel lift arm.



FIGURE 19

- 17 -

REAR WHEEL LIFT STRAPS

In assembling lift strap for rear wheel, on hydraulic two bottom plows, the lift strap is assembled to the arm on axle using the first hole in lift strap and is attached with the washer, bushing and bolt.

The lift strap (1) is always assembled with the long slot attached to the rear wheel lift arm (2) with the pin (3).

On three bottom plows, the lift strap and lift strap extension (4) are connected using suitable holes for various widths of plows by means of the two bolts and washers.

NOTE: On three bottom plows, care should be taken not to assemble the lift straps too short, which would remove the necessary clearance between bolt through bracket and stop on sleeve when plow is raised.

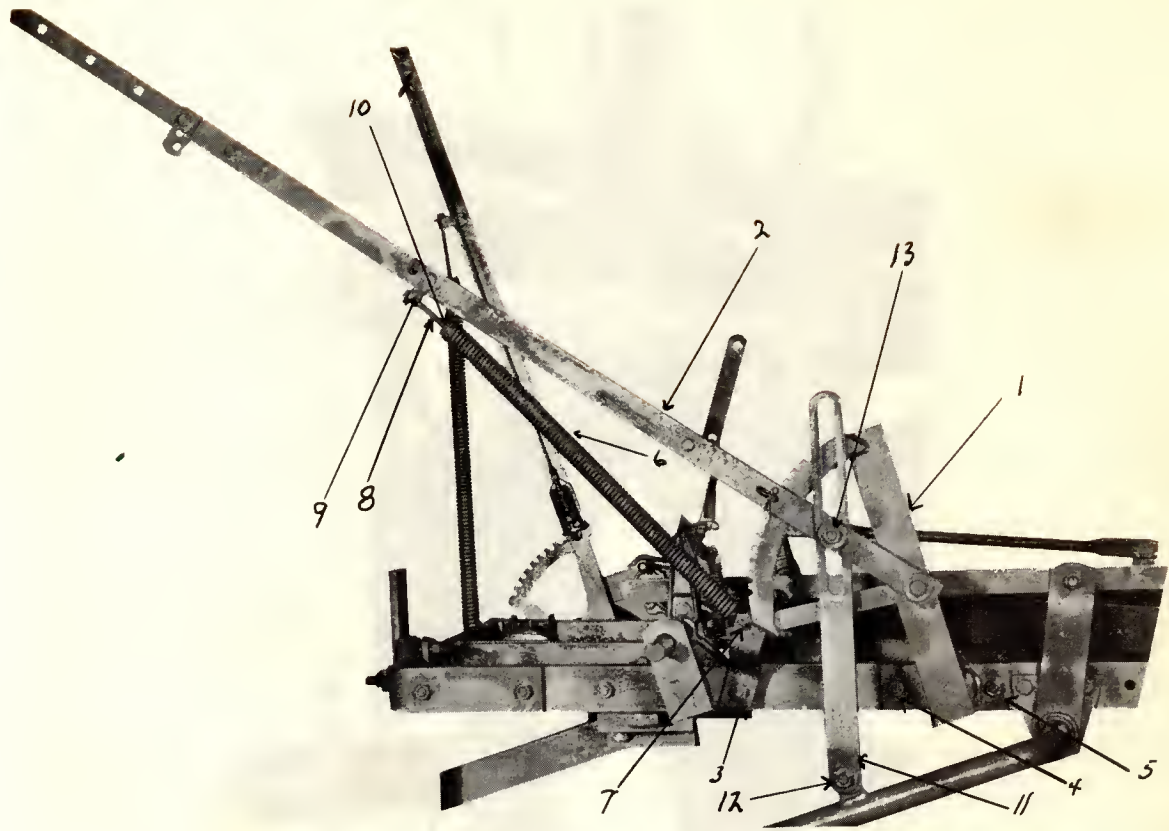


FIGURE 20

-18-

LAND LEVER & SECTOR

The Sector (1) and land lever (2) are assembled to the 2nd beam with the 3 bolts (3), (4) and (5). The lift spring (6) is connected to the hole in sector (7) and to the lever by inserting the screw (8) through washer, lug (9) on lever and into spring plug (10). The lever adjusting link (11) with the offset to the left is assembled on the (L.H.) side of lug or land axle and to the lever with the bushings, washers and bolts (12) and (13).

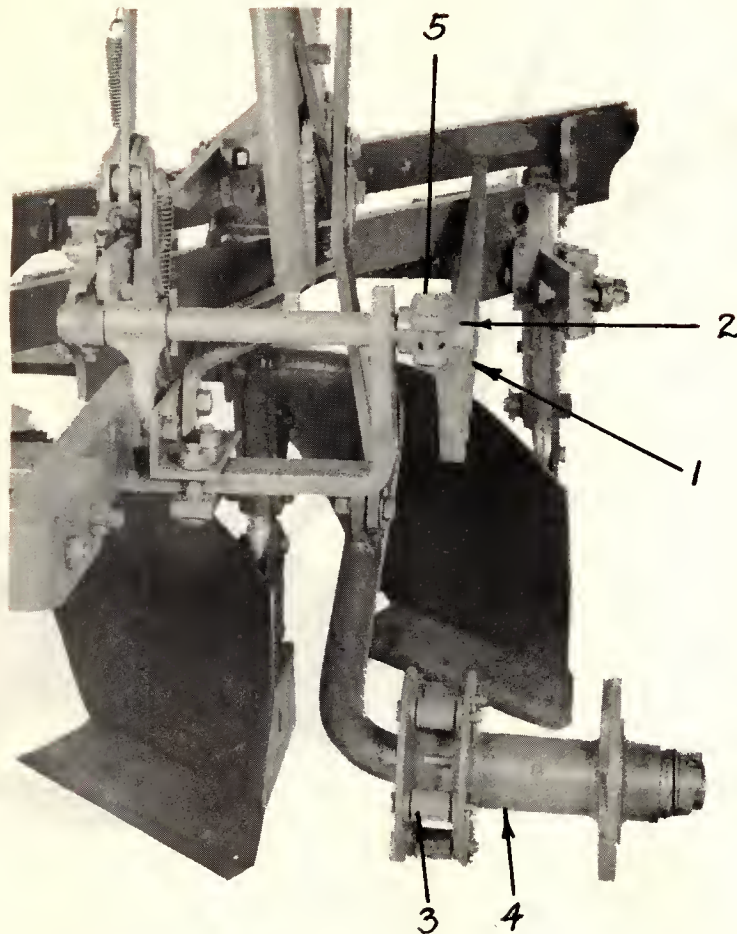


FIGURE 21

- 19 -

LIFT RACK - ASSEMBLY

Slide the rack (1) on the trip shaft (2), so the key cast in the rack is in the key-way in the trip shaft.

Make sure the notches in the rack will line up with the rollers (3) in the hub assembly (4).

Secure the rack by means of the bolt and nut (5).

The land wheel is attached to the hub by means of 6 lug bolts.

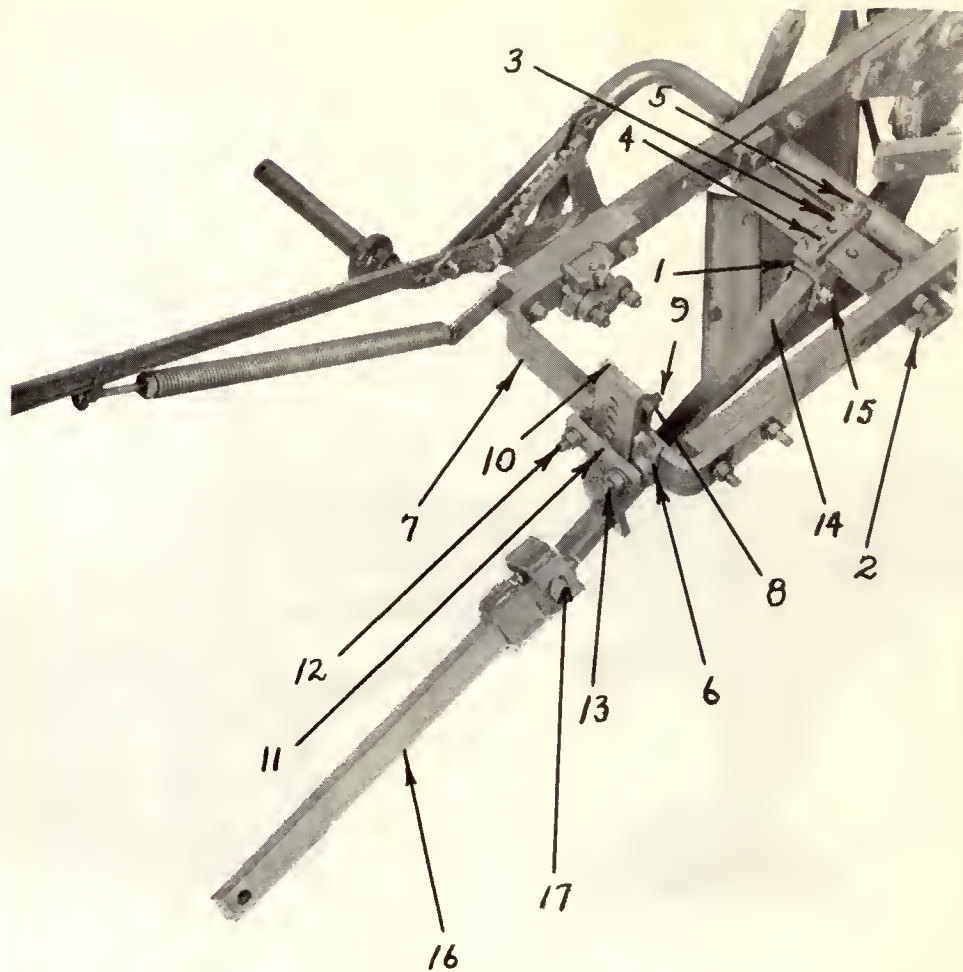


FIGURE 22

- 20 -

DRAW BAR

The draw bar anchor (1) is assembled to the cross bar (2) with the strap (3) and two bolts (4) and (5) as shown.

The block (6) is attached to the front brace (7) with the strap (8) and two bolts as indicated by (9).

The draw bar guide (10) is positioned in the block as shown and attached with the strap (11) and two bolts (12) and (13).

The draw bar (14) is inserted through the bottom of the draw bar guide and assembled to the hole in anchor with the spacer and bolt (15).

The draw bar extension (16) is assembled to the draw bar with the bolt and jam nuts (17).

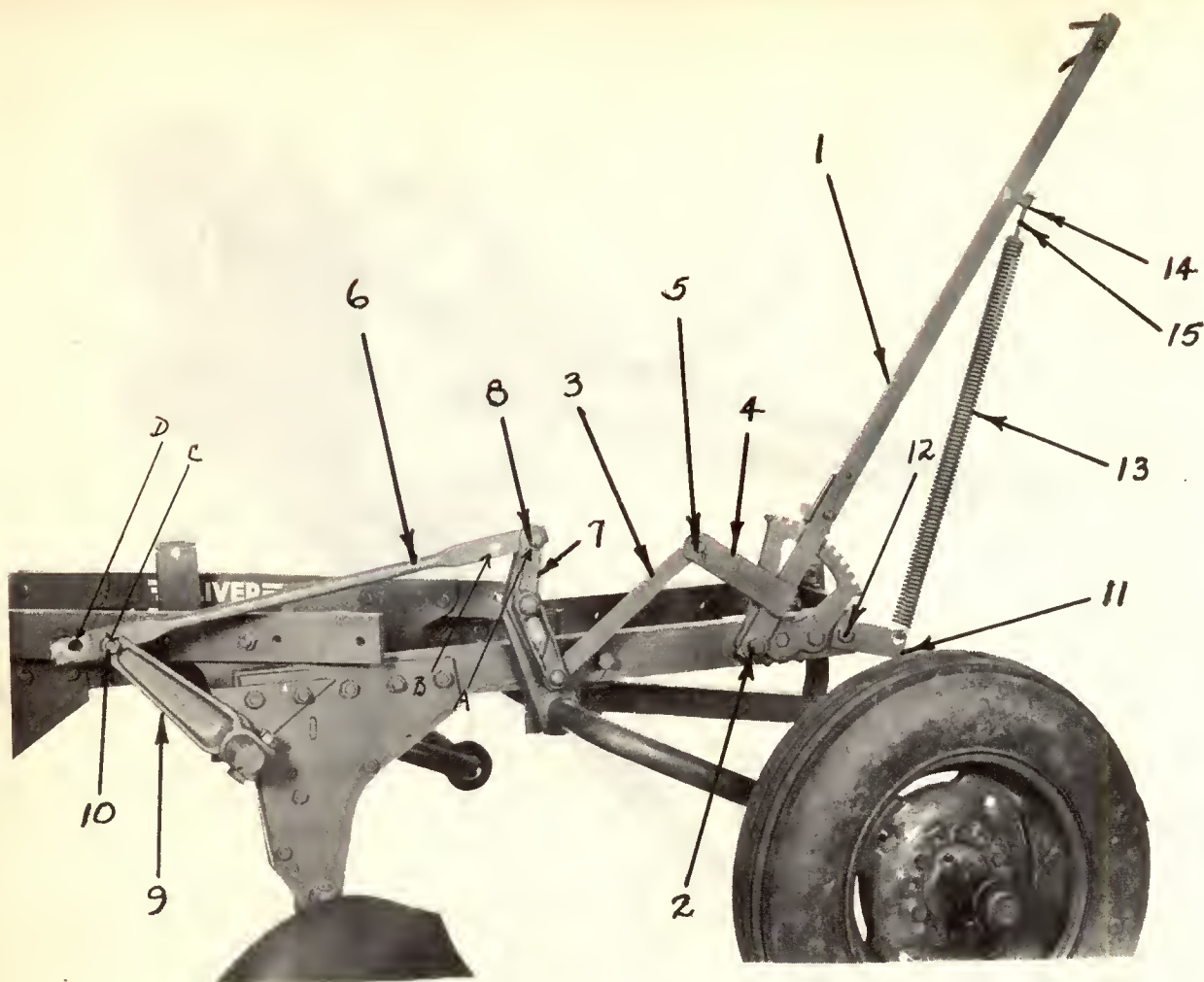


FIGURE 23

-21-

FURROW LEVER-SECTOR

Attach the sector to 1st beam and assemble the lever (1) to the sector with the washer, bushing and bolt (2) as shown.

The furrow lever link (3) is attached to the welded arm (4) on lever with the pin (5).

The land axle link (6) is attached to the equalizer arm (7) with the pin (8) and leveling arm (9) with the bolt (10).

The strap (11) for spring is attached to the first beam with the bolt (12) the lower end of spring (13) is attached to the strap (11).

The top end of spring is attached to lug (14) on lever by inserting the bolt (15) through washer, lug and plug in spring.

Use holes A & C in link (6) for regular plowing.

Use holes A & D in link (6) for deep plowing.

Use holes B & C in link (6) only when it is desired to plow deeper than six inches with 1st bottom when opening up a land.

-22-

ROLLING COLTER

NOTE: Refer to paragraph 6 in Operating Instructions for colter assembly and adjustments.

-23-

INDIVIDUAL JOINTER ATTACHMENT (NO. 341)

NOTE: Refer to paragraph 7 in Operating Instructions for jointer assembly and adjustment.

-24-

COMBINATION JOINTER ATTACHMENT (NO. 523)

NOTE: Refer to paragraph 7 in Operating Instructions for combination jointer assembly and adjustment.

-25-

DISC JOINTER ATTACHMENT (NO. 4)

NOTE: Refer to Page 30 in Operating Instructions for disc jointer assembly and adjustments.

-26-

The Decal & Shield is located on the front and rear of the rear crossbar, centering it between the last two bottoms of the plow.

**OPERATING INSTRUCTIONS
FOR
NO. 4240 2 AND 3 BOTTOM PLOWS**

The maximum performance and operating efficiency of any implement depends largely upon proper adjustment and understanding of its purpose and limitations.

The following instructions are provided for this purpose.

Read them carefully and make sure you understand all adjustments thoroughly before attempting to operate this implement.

Before operating plow, remove all paint and varnish from the earth working parts of plow.

Check all moving parts and see that they work freely.

Check all nuts and bolts and tighten securely.

All adjustments, oiling or cleaning should be done while plow is standing idle, with bottoms resting on the ground.

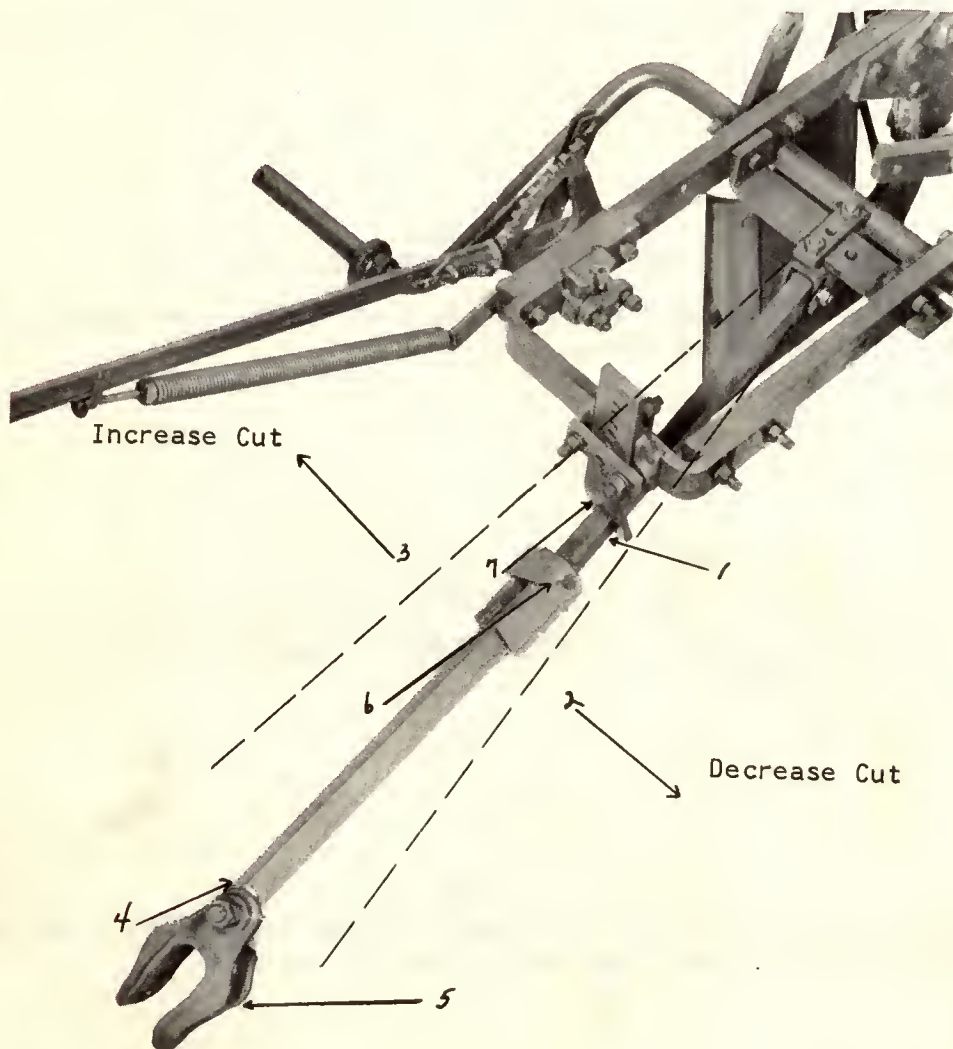


FIGURE 1

-1-

WIDTH OF CUT

To obtain furrows of even width, adjust the drawbar (1) of the plow so that the front bottom cuts the same as the rear bottom.

Moving the drawbar toward the unplowed ground as indicated by dotted line (2) causes the front bottom to decrease its cut.

Moving the drawbar toward the plowed ground as indicated by dotted line (3) causes the front bottom to increase its cut.

- 2 -

VERTICAL DRAW BAR ADJUSTMENT

The tractor draw bar should be set to a height of about 15 inches from the ground to the draw bar with tractor in level position.

The draw bar extension (4) should be slanted upward with the point (5) about 2 inches higher than pivot point (6) when plow frame is level at the desired plowing depth.

Adjust the draw bar guide (7) up or down depending upon height of tractor draw bar from the ground, the depth of plowing and condition of the soil.

If plow draw bar is raised too high, the bottoms do not penetrate properly and uniformly, causing excessive share wear and uneven furrows.

Ordinarily the lower the hitch is set on both the tractor and plow the better the plow will penetrate and hold its depth in very hard soil conditions.

Height of hitching may be limited by the amount of surface trash, depth of plowing and soil conditions.

The draw bar should have sufficient ground clearance, so it will not catch trash or dig into the ground.

-3-

FURROW LEVER ADJUSTMENT

The furrow lever is used to open up land and adjust the plow for level operation.

After a furrow is established and plow has been properly leveled with the furrow lever, do not attempt to regulate the depth of plowing with this lever.

See page (22) for adjustments of plowing.

-4-

DEPTH ADJUSTMENT

The plow is adjusted for depth, by the depth adjustment on a mechanical lift plow.

The extension or contraction of cylinder decreases or increases the depth on the hydraulic lift plow. The lift link provides two settings, one for regular plowing and the other for deep plowing.

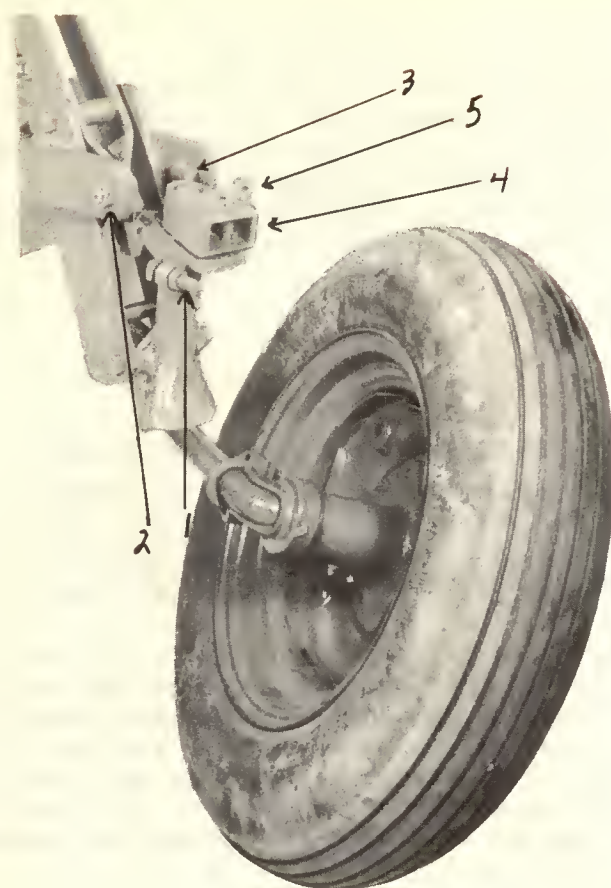


FIGURE 2

-5-

REAR WHEEL ADJUSTMENTS

The rear wheel of the plow should be adjusted so the heel of the landside just clears the furrow bottom.

This can be done by adjusting the bolt (1) so the rear wheel carries most of the weight when plowing.

To relieve landside pressure, shorten, the left hand bolt (2) and lengthen the right hand bolt (3).

It is important in transporting the plow to lock the adjusting arm (4) with the hook pin (5) to keep the rear wheel from flopping.

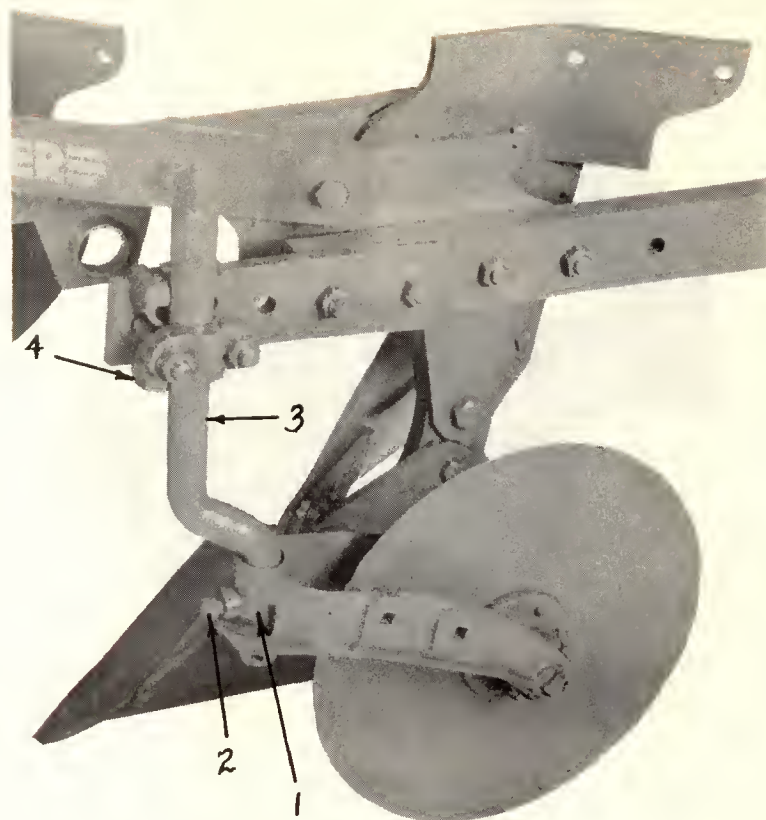


FIGURE 3

- 6 -

ROLLING COLTERS

The purpose of the colter is to cut the surface trash and leave a clean furrow wall.

If colters are set too deep, they will have a tendency to ride the plow out of the ground, especially in hard ground conditions.

For average soil conditions the colters should be set so that they are approximately (1/2") one-half to (3/4") three-quarters of an inch to left of landside and just deep enough to cut the surface trash or sod.

The swing of the colter can be limited by positioning the collar (1) on the standard and tightening the set screw (2) in the collar.

The colter can be moved forward or back by turning the crank (3) or moving the block (4) on the beams to meet various conditions.



FIGURE 4

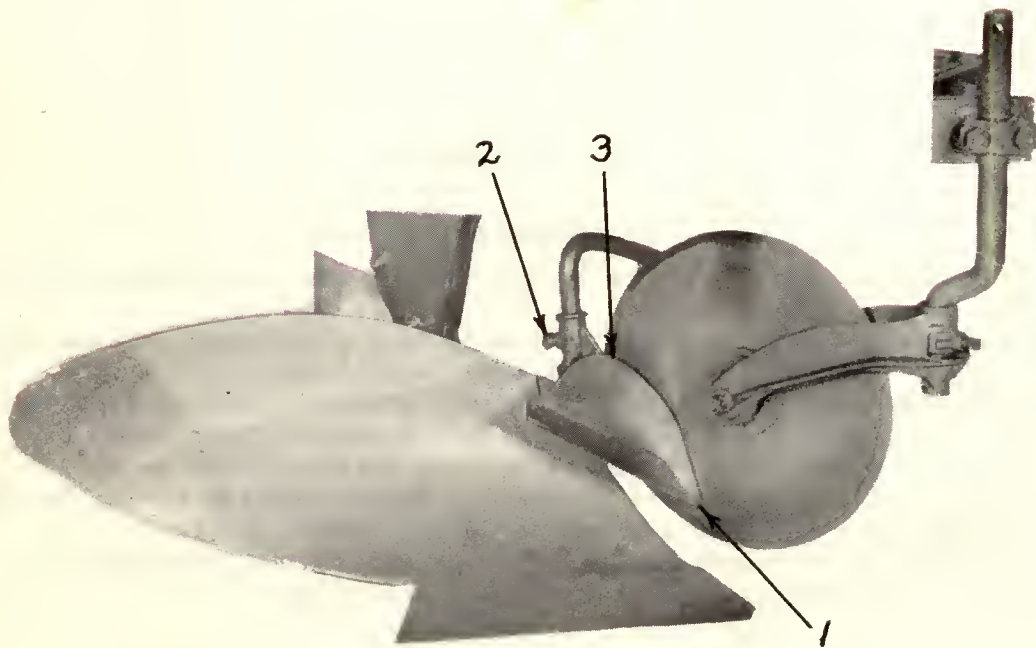


FIGURE 5

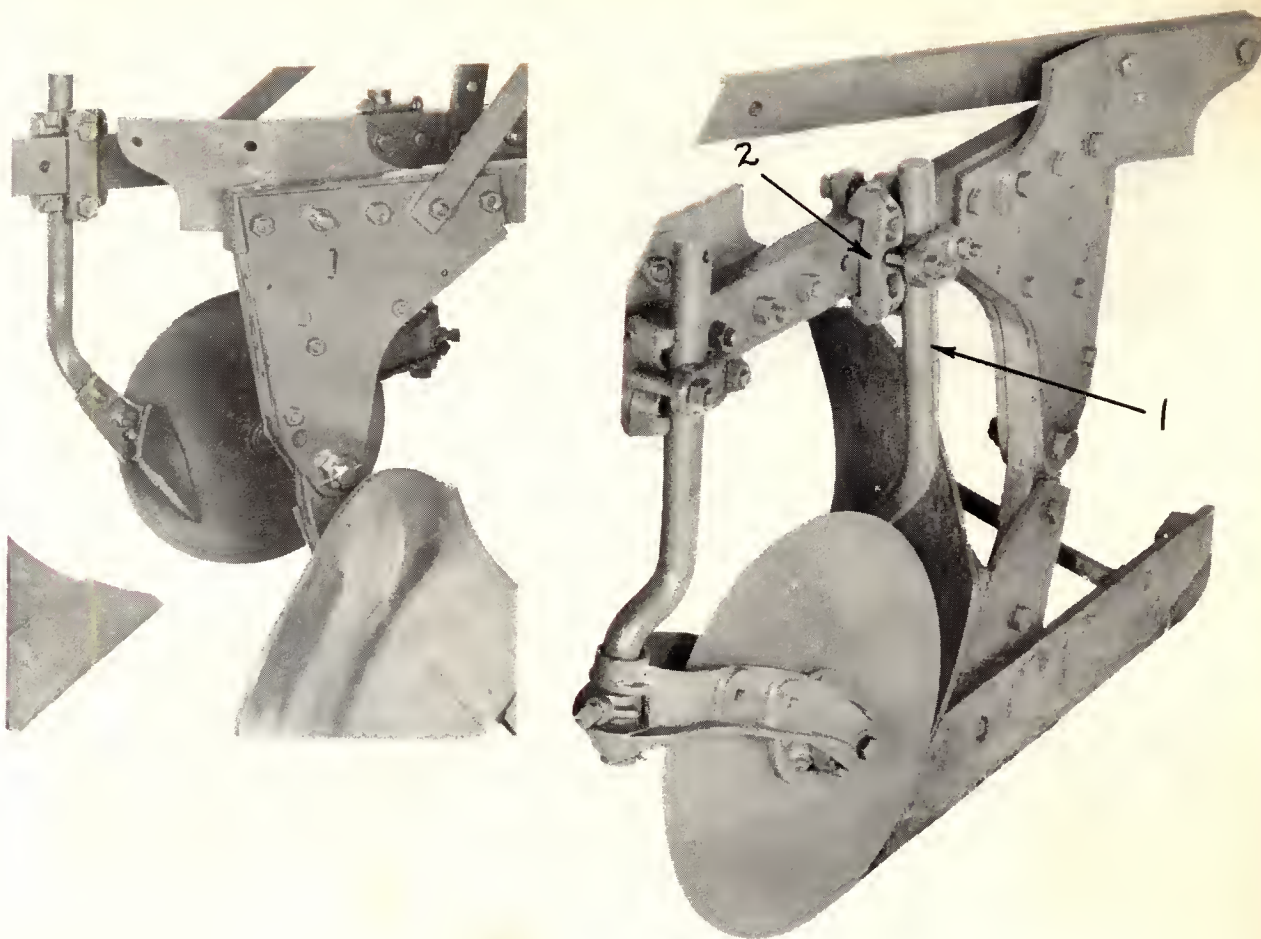


FIGURE 6

- 7 -

JOINTERS

The purpose of the jointer is to throw the surface trash over into or close to the furrow so that it can be covered more easily with the furrow slice from the moldboard.

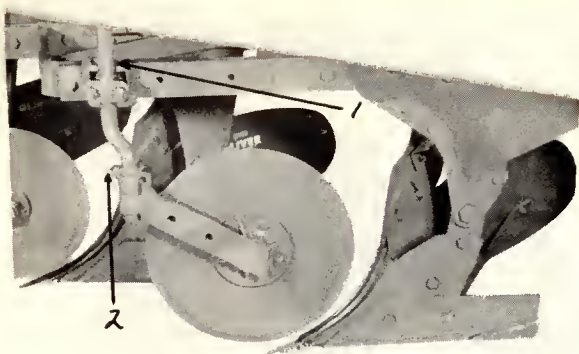
The jointer can be moved closer to or away from colter by pivoting the jointer standard (1) Figure 4 over boss on standard by means of the two bolts.

Jointers should be adjusted so that the point of jointer (1) Figure 5 just clears the colter blade, while the rear part of jointer (2) should have about $3/8$ " clearance.

The jointer point may also be rotated on jointer standard for more or less throw of dirt or trash, also up and down on the standard by loosening the set screw (3) in jointer.

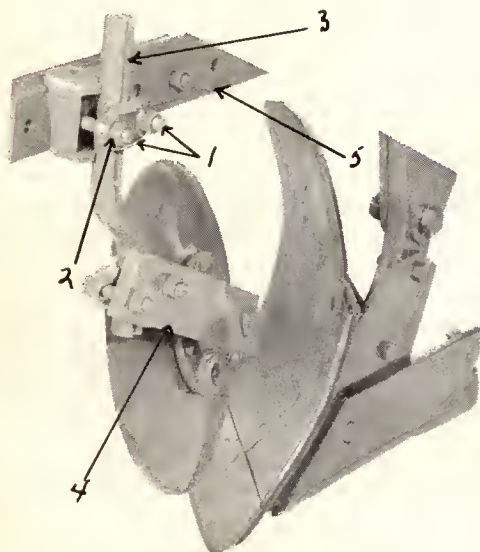
The independent jointer (1) Figure 6 can be moved up or down, or to and from the colter.

These adjustments are made in the jointer block (2).



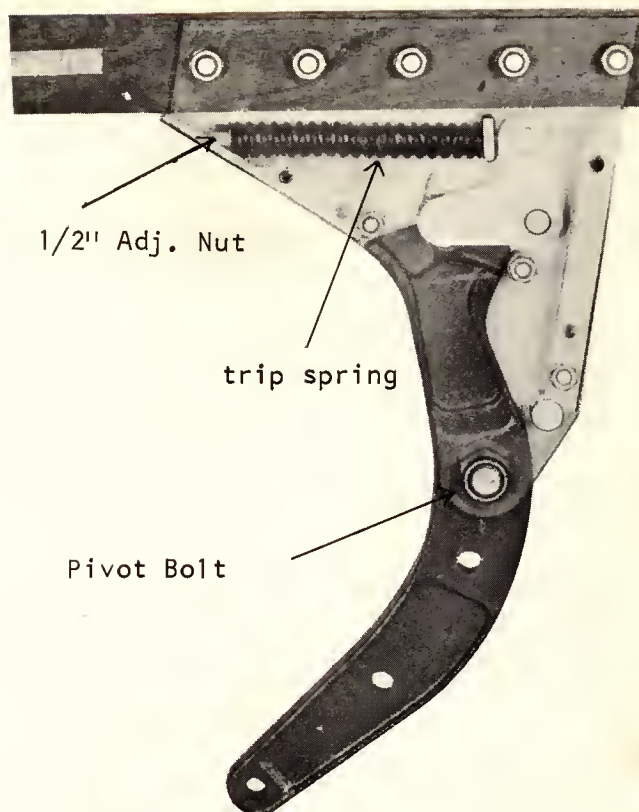
NO. 533 ROLLING COLTERS... assemble the crank (1) to the beam with the block, cap & 2 bolts. The swing of the colter is limited by the set screw in collar (2). The colter can be moved forward or back by turning the crank or moving the block on the beams to meet various soil conditions.

NO. 531 JOINTER... assemble and adjust Jointer in the same manner as explained for No. 523 Jointer.



#4 DISC JOINTER

The Disc Jointer is attached to the beam with the block, cap and 2 bolts (1) as shown, the cap (2) has a keyway (which is cast off center) that fits in the slot of the crank (3), this is so the jointer can be adjusted to the right position by alternately tightening or loosening the 2 nuts, or by turning the cap end for end. The disc arm (4) is set parallel to the plow beam (5).



Beam Foot in plowing position

Spring Trip... the spring trip load is set at 4000# for normal tripping action. However, if plow shows evidence of not tripping, broken or bent shares, jumping out of ground etc, remove the spring, and trip the bottom by hand. Reset the spring by adjusting the nut 1/2 turn at a time until the plow will not trip during regular plowing, but trips when an obstruction is hit. It is important that the spring trip be kept free from dirt. When storing for 30 days or more, lubricate with a mixture of oil and kerosene.

NOTE: DO NOT use grease or heavy oil, as it will only collect dirt.

Bolts & Nuts

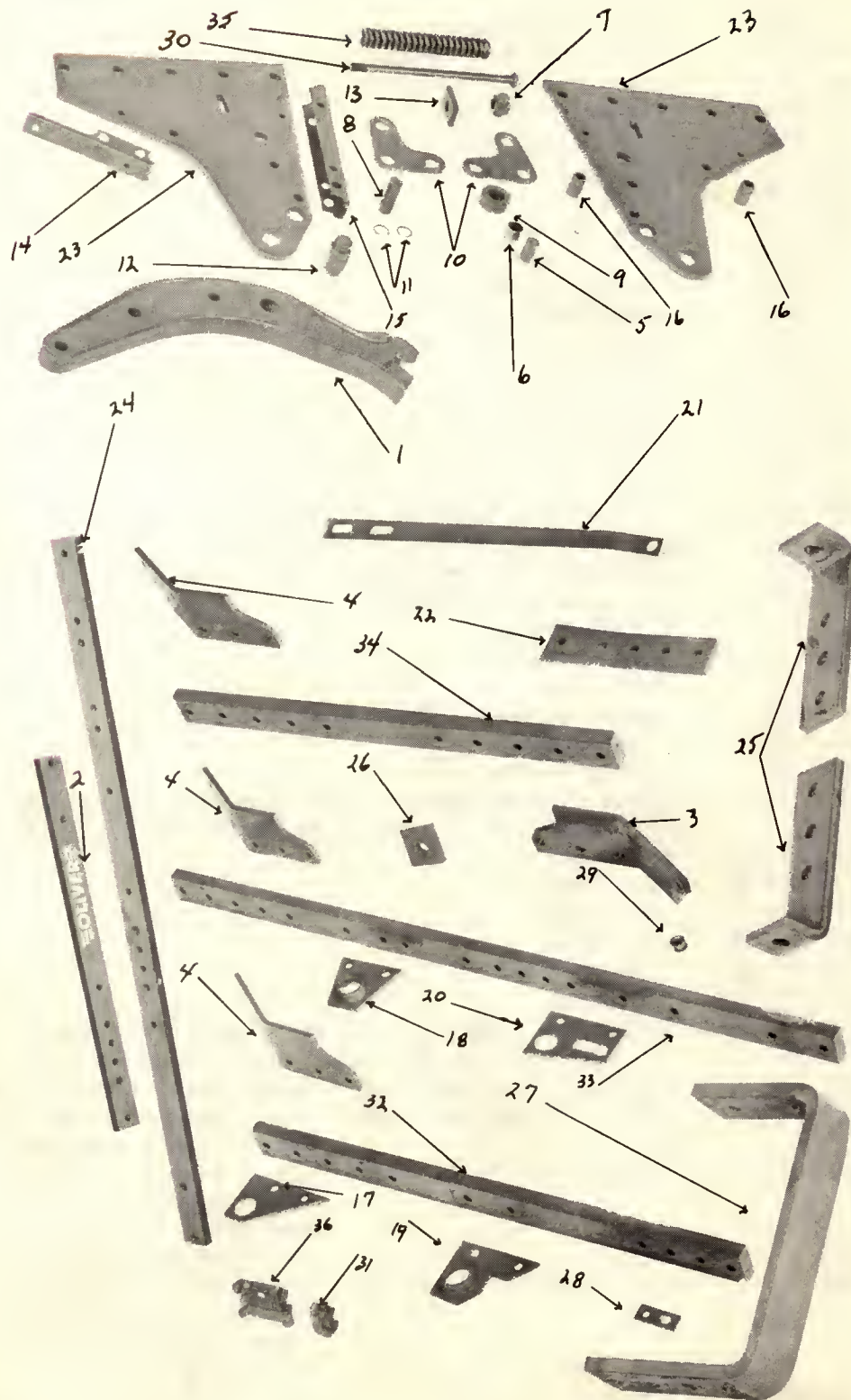
A good practice is to check for loose bolts, screws or Parts. Loose bolts are easily lost or cause excessive wear on parts resulting in possible damage to the plow.

MOLDBOARD JOINTERS... can be used with plow. Refer to operating and instruction book for Jointers that is attached to the Moldboard.

PLOW PROBLEMS & SUGGESTED CORRECTIONS

	CAUSE	CORRECTION
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
Plow runs crooked (not parallel to furrow wall)	1. Improper tractor wheel spacing	Plow tails to the furrow wall A. Decrease tractor wheel spacing
	2. Plow drawbar not adjusted properly	Plow tails to the furrow wall A. Move plow drawbar toward the plowed ground.
	3. Tail wheel out of adjustment	A. The tail wheel should run parallel to or lead slightly away from the furrow wall.
	4. Disc Joints out of adjustment.	A. The disc colter arm should be parallel with the plow beams. (The colter blade should lead into the land and not toward the plowed ground) B. Run 2" to 3" deep.
	5. Joints turning colters	A. Joints 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.
Uneven Furrows	1. Plow frame not level	A. Level plow frame from side to side.
	2. Colters and Joints not set alike.	A. Set the rear colter so it leaves a clean furrow wall. Then set the other colters 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.

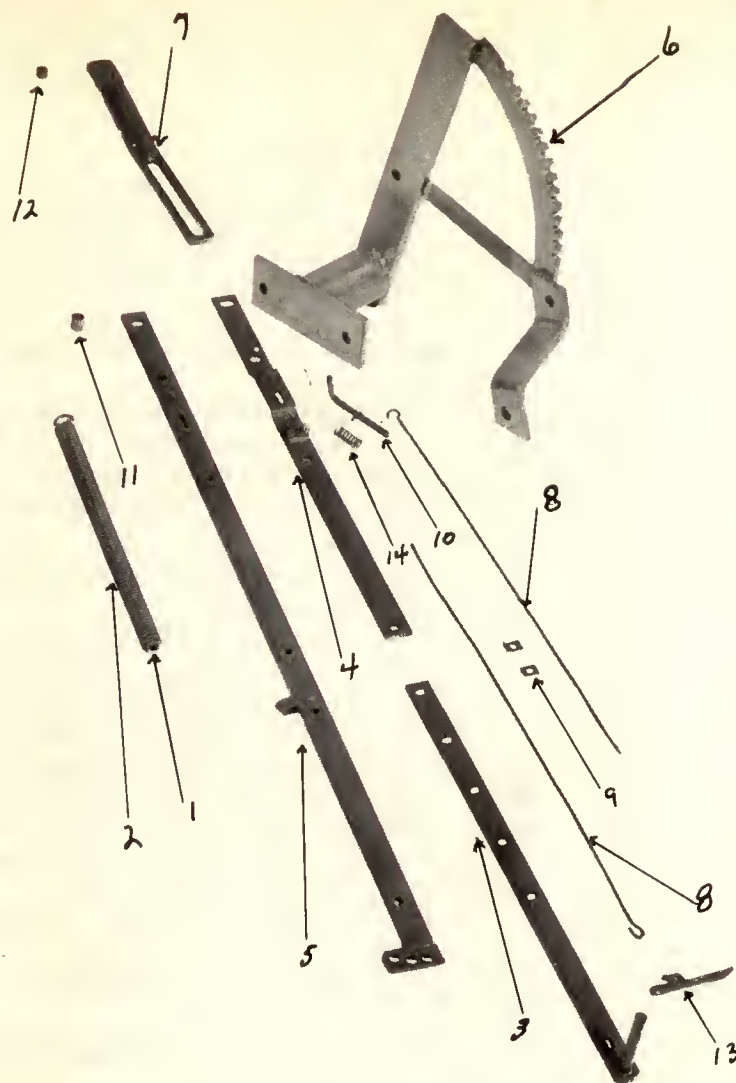
PARTS BOOK



2-BOTTOM & 3-BOTTOM BEAM (SPRING TRIP)
3RD. BEAM ATTACHMENT (SPRING TRIP)

REF. NO.	PART NO.	DESCRIPTION
1.	TP-3000 B	Beam Foot
2.	TP-3008	Short Crossbar
3.	TP-3010	Front crossbar Bracket
4.	TP-3011	Rear crossbar Bracket
5.	TP-3021	Roller Pivot Pin
6.	TP-3022	Trip Roller Bearing
7.	TP-3023	Spring Guide Pin
8.	TP-3024	Pivot Pin
9.	TP-3025	Trip Roller
10.	TP-3026	Latch Plate
11.	TP-3027	External Snap Ring
12.	TP-3028	Beam Foot Stop
13.	TP-3029	Spring Retainer Strap
14.	TP-3030	Front Filler
15.	TP-3031	Rear Filler
16.	TP-3032	Gusset Spacer
17.	TP-3039	Land Axle Bearing - 1st. Beam
18.	TP-3040	Land Axle Bearing - 2nd. Beam
19.	TP-3041	Furrow Axle Bearing - 1st. Beam
20.	TP-3042	Furrow Axle Bearing - 2nd. Beam
21.	TP-3046	Extension for Rear Wheel Control Strap
22.	TP-3047	R/C 3rd. Beam Bracket
23.	TP-3115	Gusset Plate
24.	TP-3228	Long Crossbar
25.	TP-3236	Beam Brace
26.	TP-3237	Spacer between 2 nd Beam & Beam Brace
27.	TP-3289	Front Brace
28.	TP-3290	Spring Anchor
29.	EP-6772	Spacer (Front Bolt in 2nd. Beam & Front Brace)
30.	50627	1/2" x 9 1/2"-20 Sq. Hd. Mach. Bolt (Through Trip Spring)
31.	217 214 B	R/C Block Cap
32.	217 634 B	1st. Beam
33.	217 635 B	2nd. Beam
34.	217 684 B	3rd. Beam
35.	217 751 B	Trip Spring
36.	217 778 B	R/C Block
	217 934 B	1"-12 Hex. Lock Nut (On Beam Foot Pivot Bolt)
	217 947	1" x 3 1/2"-12 Hex. Hd. Cap Screw (Pivot Bolt)
	900 630	5/8" x 1 1/2"-11 Mach. Bolt (Rear Wheel Control strap & ExT)
	900 634	5/8" x 2 1/2"-11 Mach. Bolt (1st. Beam & Furrow Axle Bearing)
		(2nd. Beam & Land Axle Bearing)
	900 635	5/8 x 3"-11 Mach. Bolt (1st. Beam & Front Brace)
		(2nd. Beam & Furrow Axle Bearing)
		(On Hydr.- move to 2nd. Beam & Front Brace on Mech.)
	900 636	5/8" x 3 1/2"-11 Mach. Bolt (2nd. Beam, 2nd. Hole, Front Brace & Hose Rod, move this bolt to 2nd. Beam & Furrow Axle Brg. on Mech.)
	900 637	5/8 x 4"-11 Mach. Bolt (2nd. Beam & Front Bface on Hydr. - move this bolt to 2nd. Beam & Furrow Axle Brg. on Mech.)

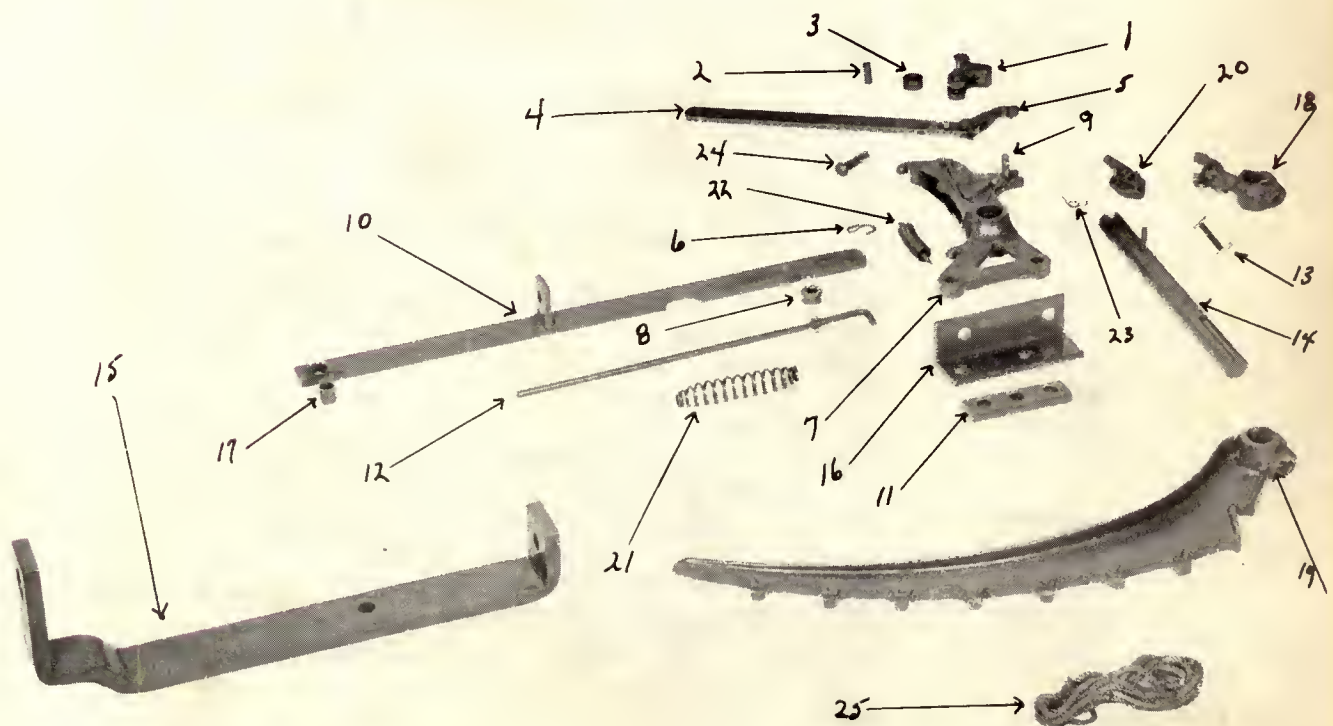
REF. NO.	PART NO.	DESCRIPTION
	908 026	5/16" x 2-3/4"-18 Mach. Bolt (Gusset, Front & Rear Filler)
	908 392-3	5/8" x 4"-11 Mach. Bolt (R/C Bracket, Block & Cap)
	908 393-3	5/8 x 4 1/2"-11 Mach. Bolt (2nd. Beam, R/C Block & Cap)
	908 395-3	5/8 x 5 1/2"-11 Mach. Bolt (1st. Beam, Front Brace & R/C Block & Cap)
	908 396-3	5/8 x 6"-11 Mach. Bolt (1st. Beam, Front Brace, Sector & R/C Block & Cap)
	908 511	1/2" x 2-3/4"-20 Mach. Bolt (Gusset & Spacers) (Gusset, Rear Filler lower Hole)
	908 534	5/8 x 1-3/4"-18 Mach. Bolt (In Beam Braces)
	908 536	5/8 x 2 1/4"-18 Mach. Bolt (Crossbar & Rear Crossbar Brkt. (Front Crossbar & Brkt.-2nd. Beam)
	908 537	5/8 x 2 1/2"-18 Mach. Bolt (Beam Foot & Bottom-Upper) (Beam Foot & Bottom-Center) (Front Crossbar Brkt. & 3rd. Beam-Rear Hole)
	908 539	5/8" x 3"-18 Mach. Bolt (Beam, Gussets, Rear Hole-not used on 2 Row Plow, Beam, Gussets, Front Hole)
	908 540	5/8 x 3 1/2"-18 Mach. Bolt (Beam & Gussets - Front Hole) (1st. Beam, Furrow Axle Bearing & Cross Brace) (2nd. Beam, Beam Brace, Spacer & Sector Bracket) (1st. Beam, Gussets, & Cross Brace Bracket) (2nd. Beam, Gussets, & Cross Brace Bracket) (Rear Bolt not used on 2 Beam Plow)
	908 541	5/8 x 4"-18 Mach. Bolt (1st. Beam, Gussets, Cross Bar Bracket & Beam Brace) (2nd. Beam, Gussets, Cross Bar Bracket & Beam Brace - 2nd. Hole from Rear)
	908 543	5/8 x 5"-18 Mach. Bolt (2nd. Beam, Gussets & Rear Axle Bracket) (2nd. Beam, Gussets, & Crossbar Bracket) (3rd. Beam, Gussets, & Rear Axle Bracket) (3rd. Beam, Gussets, & Crossbar Bracket)
	908 583	5/8 x 3-3/4"-18 Mach. Bolt (Land Axle Brg. Beams, Gussets, Rear Hole)
	915 004	1/2"-20 Hex. Nut
	915 006	5/8"-18 Hex. Nut
	915 112	5/16"-18 Hex. Nut (Front & Rear Filler)
	915 117	5/8"-11 Hex. Nut
	915 117-3	5/8"-11 Hex. Nut (On Bolts in R/C Block & Cap)
	915 694	1/2"-20 Hex. Self-Locking Nut (On Bolt thru Trip Spring)
	920 011	1-1/16" x 17/32" #13 Steel Washer (On Trip Spring Bolt)
	920 013	1-5/16" x 21/32" #13 Steel Washer (On Rear Bolt in 1st Beam & Furrow Axle Bearing)
	920 043	1-3/4" x 11/16" #10 Stl. Washer (On Bolt in Rear Wheel Control Straps)
	920 082	5/16" Lock Washer (Front & Rear Filler)
	920 087	5/8" Lock Washer



LAND LEVER & SECTOR

REF. NO.	PART NO.	DESCRIPTION
1.	RP-244	Screw Plug
2.	5750	No. 113 Spring
3.	TP-3061	Extension Lever
4.	TP-3064	Depth Lever Reinforcement
5.	TP-3068	Depth Adj. Lever
6.	217 667 BA *	Sector
7.	217 440 BA	Lower Adj. Link
8.	TP-3076	Adj. Latch Wire
9.	TP-3077	Clip for Latch Wire
10.	TP-3078	Plunger for Depth Lever
11.	DH-7234	Bushing - Depth Adj. Lever
12.	RC-6834	Bushing - Lever Adj. Link
13.	EP-710-A	Latch
14.	4998	No. 90 Spring on Plunger

7809	7/16 x 6-1/2"-14 Mach. Bolt (5 1/2" Thd.) (In Screw Plug)
900 234	3/8 x 1"-16 Cge. Bolt LW (In Clips for Latch Wire)
900 269	1/2 x 1-1/2"-13 Cge. Bolt LW (In Lever Ext. & Lever)
900 632	5/8 x 2"-11 Mach. Bolt LW (Lever Link & Axle Lever Plug)
900 634	5/8 x 2-1/2"-11 Mach. Bolt LW (1-Lever Link, Lever & Reinforcement) (1-3rd. Beam & Sector Anchor)
900 635	5/8 x 3"-11 Mach. Bolt LW (Sector Brace, Sector Strap Lever & Reinforcement Pivot)
908 059	1/2 x 1-1/2"-13 Mach. Bolt LW (In Lever & Reinforcement)
915 113	3/8"-16 Hex. Nut
915 115	1/2"-13 Hex. Nut
915 117	5/8"-11 Hex. Nut
920 040	1-1/4 x 1/2" #14 Steel Washer (On Spring Bolt)
920 043	1-3/4 x 11/16" #10 Steel Washer (1-Bolt in Axle, Lever Lug & Link) (1-Bolt in Lever, Reinforcement & Link) (1-Bolt in Lever Pivot)
920 083	3/8" Lock Washer
920 085	1/2" Lock Washer
920 087	5/8" Lock Washer
932 044	1/4 x 1" Cotter (1-In Lever Latch) (1-In Plunger)
932 065	3/8 x 1-1/2" Cotter (In Lever - to hold Latch Wire)



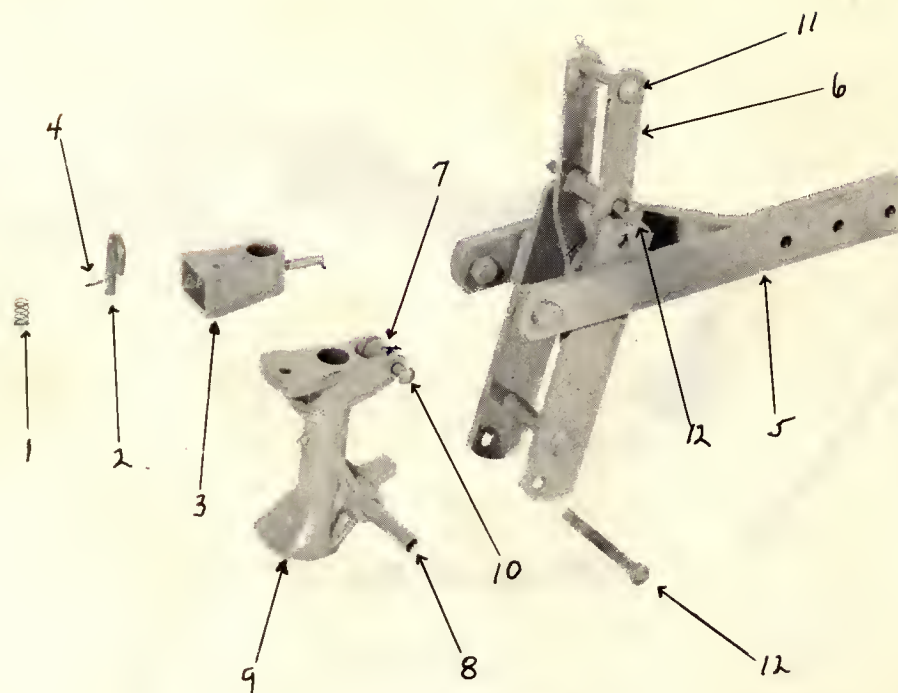
POWER LIFT DEVICE

REF. NO.	PART NO.	DESCRIPTION
1.	EP-1132	Roller Carrier
2.	EP-7384	Pin for Roller
3.	EP-7391	Roller on Top of P/L Bar
4.	TP-3086	Lever- Trip
5.	EP-1131-A	Latch
6.	EP-8416	Spring Anchor Link
7.	TP-6	Frame & Lift Shaft Bearing
8.	EP-7391	Roller under P/L Bar
9.	EP-7386	Pin in Lift Pawl
10.	TP-3241	Power Lift Bar Complete
11.	217 183 B	Clamp
12.	EP-7699	Spring Rod (Welded)
13.	EP-7404	Key for Lift Shaft & Spring Arm
14.	TP-3087	Lift Shaft
15.	217 439 B	Brace-Cross
16.	TP-3226	Support - Crossbar
17.	237 057 B	Bushing - Lift Bar & Rear Wheel Control Strap
18.	EP-1129	Spring Arm
19.	EP-1239	Lift Rack
20.	EP-1130-X	Lift Pawl-Frame Casting
21.	TC-5587	No. 285 Spring - Spring Rod
22.	EP-7440	No. 262 Spring (1-On P/L Lever) (1-On Roller Carrier)
23.	EP-7544	No. 269 Spring - Lift Pawl
24.	SC-5028	Pin - Lift Shaft Bearing, Trip Lever & Roller Carrier (BHNA Rivet)
25.	8491	Trip Rope
	50133	1/2 x 1-5/8" FHNA Rivet (Roller & Bearing Bracket)
	900 148	5/8 x 2-1/2"-11 Cge. Bolt (To Clamp Lift Rack on Lift Shaft)
	900 273	1/2 x 2-1/2"-13 Cge. Bolt (To Clamp Spring Arm on Lift Shaft).
	900 634	5/8 x 2-1/2"-11 Mach. Bolts (In Clamp Strap & Crossbar Support)
	900 637	5/8 x 4"-11 Mach. Bolt (Trip Shaft Bearing, 2nd. Beam & etc.
	908 536	5/8 x 2-1/4"-18 Mach. Bolt (Land Axle Lift Arm, P/L Bar & Bushing
	915 006	5/8"-18 Hex. Nut
	915 151	1/2"-13 Hex. Nut
	915 153	5/8"-11 Hex. Nut
	920 043	1-3/4 x 11/16" #10 Steel Washer (On Bolt for Land Axle Arm, Bushing & Power Lift Bar).
	932 017	1/8 x 1" Cotter (1-In Pin for Lift Pawl) (1-In Spring Rod)
	923 052	3/8 x 1-1/8" Csk. Hd. An. Rivet (In Lever & Latch)
	932 034	3/16 x 1" Cotter (In Pin for Trip Lever)
	933 234	Rollpin - Lift Shaft

MECHANICAL LIFT BOX

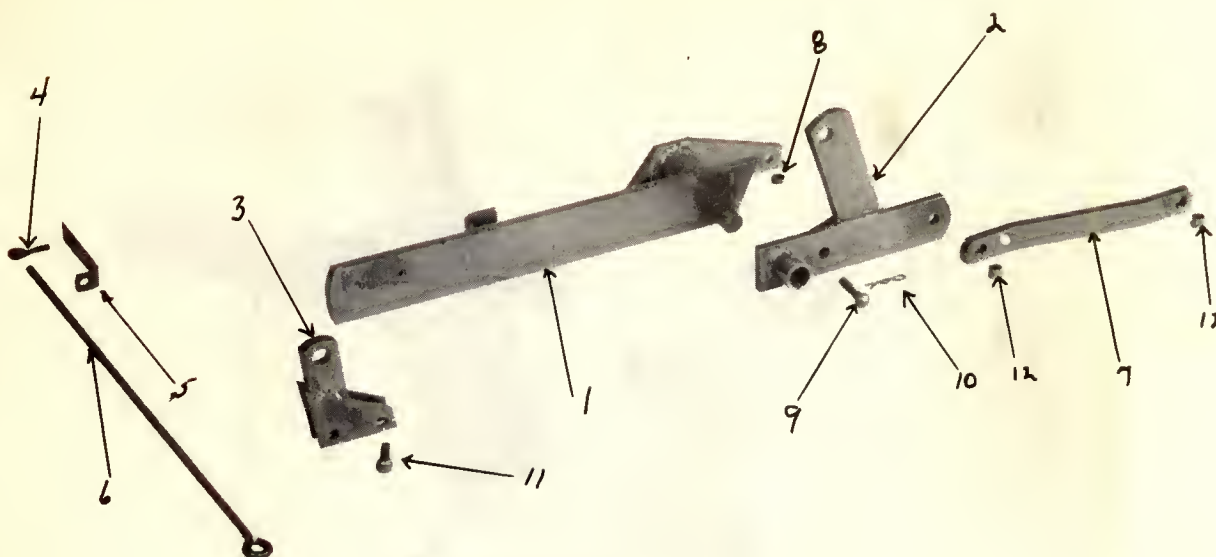
REF. NO.	PART NO.	DESCRIPTION
1.	TP-17	Box - Mechanical Lift
2.	EP-7385	Pin in Roller
3.	TC-5418	Roller
	932 034	3/16 x 1" Cotter (In Roller Pins)





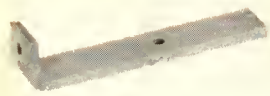
REAR AXLE BRACKETS

REF. NO.	PART NO.	DESCRIPTION
1.	SR-5001	No. 92 Spring
2.	TP-3110	Hook Pin
3.	217 663 B *	Arm Adjustor
4.	933 188	3/16 x 1" Rollpin in Hook Pin
5.	217 662 B *	Rear Axle Bracket
6.	TP-3296	Pivot Arm
7.	TC-5418	Roller for Lift Arm
8.	TP-3177	Spacer - Pivot Arm
9.	TP-24-C	Sleeve - Rear Axle
10.	933 003	1/2 x 2-3/4" Pin - Drilled (Sleeve & Roller-Top) <i>EP. 696</i>
11.	933 044	3/4 x 3-3/4" Pin - Drilled (Pivot Arm)
12.	908 545	5/8 x 6"-18 Mach. Bolt HT (1-Bracket & Pivot Arm) (1-Bracket & Sleeve)
	9154	5/8 x 2-1/4"-11 Mach. Bolt-Full Thd. (Adj. Stop in Sleeve)
	908 401	3/4 x 2"-10 Mach. Bolt (In Supports for Adj.)
	915 006	5/8"-18 Hex. Nut
	915 089	5/8"-18 Hex. Jam Nut (On 6" Bolts)
	915 240	5/8"-11 Hex. Jam Nut (On Adj. Stop Bolt)
	915 241	3/4"-10 Hex. Jam Nut (On Support Bolts)
	932 034	3/16 x 1" Cotter (Roller Pin)
	932 046	1/4 x 1-1/2" Cotter (Pivot Arm Pin)
	939 001	1/8" PT Grease Fitting in Sleeve
	933 234	5/16" x 2 1/2" Rollpin in Rear axle and adjusting arm
	933 261	1/2" x 2 1/2" Rollpin in Rear axle and adjusting arm



HYDRAULIC CONTROLS (LIFT)

REF. NO.	PART NO.	DESCRIPTION
1.	TP-3247	Cylinder Support
2.	TP-3252-A	Pivot
3.	217 438 B	Cylinder Anchor
4.	DH-7245	Eyebolt for Hose Clamp
5.	DH-7252	Hose Clamp on Support Rod
6.	EP-8119	Support Rod for Hose (On Bolt in 2nd. Beam & Front Brace - 2nd Hole)
7.	217 940 B	Lift Link
8.	Z-5856	Bushing for Rear Wheel Control Strap
9.	EP-5291	Pin for Cylinder Arm & Lock Plate (BHNA Rivet)
10.	EP-7869	Internal Hairpin Cotter in Upper Lock Pin for Cylinder Arm)
11.	217 935 B	Locking Pin for Cylinder Arm (BHNA Rivet)
12.	PT-5795	Bushings in Hydraulic Lift Link
	908 090	5/8 x 2-1/2"-11 Mach. Bolt LW (In Anchor Plate & Beam)
	908 535	5/8 x 2"-18 Machine Bolt (Uses 2 Nuts) (In Land Axle Lift Arm & Bushing for Rear Wheel Strap)
	908 537	5/8 x 2-1/2"-18 Mach. Bolt (Uses 2 Nuts) (In Hydraulic Lift Link)
	915 006	5/8"-18 Hex. Nut
	915 089	5/8"-18 Hex. Jam Nut
	915 117	5/8"-11 Hex. Nut
	915 586	3/8"-16 Wing Nut (On Eyebolt for Hose Clamp)
	920 043	1-3/4" x 11/16" #10 Steel Washer (1-On Bolt in Axle Lift Arm & Rear Wheel Control Strap) (2-On Bolt in Hydraulic Lift Link) (1-On Bolt in Hose Rod)
	920 087	5/8" Lock Washer
	932 034	3/16 x 1" Cotter Pin (In Lever Pivot Pin for Cylinder Arm)
	939 046	PT Grease Fitting

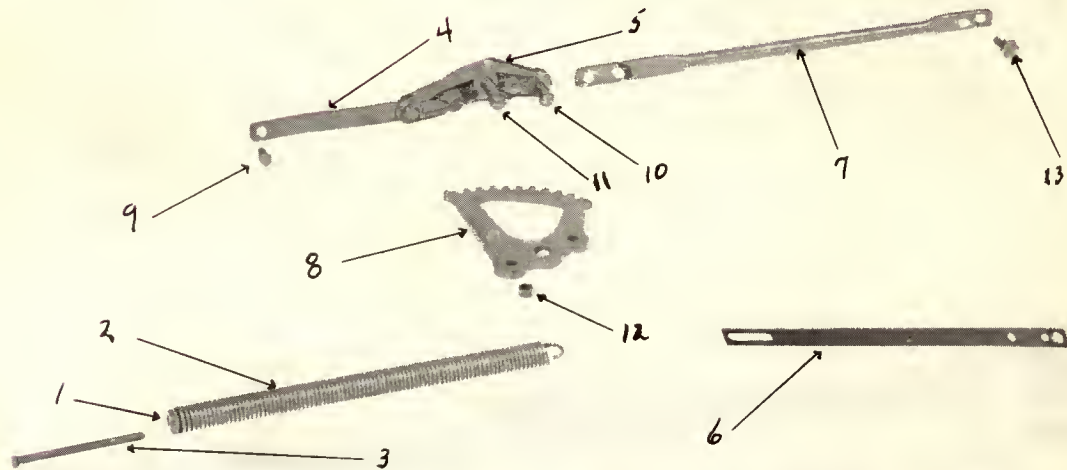


PART
NO.

DESCRIPTION

TP-3094

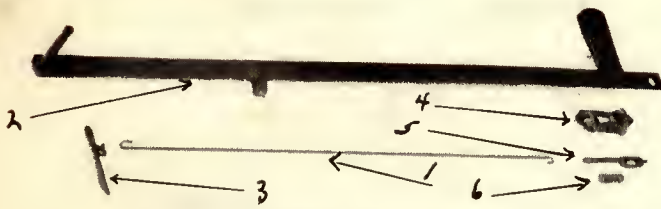
Cross Brace



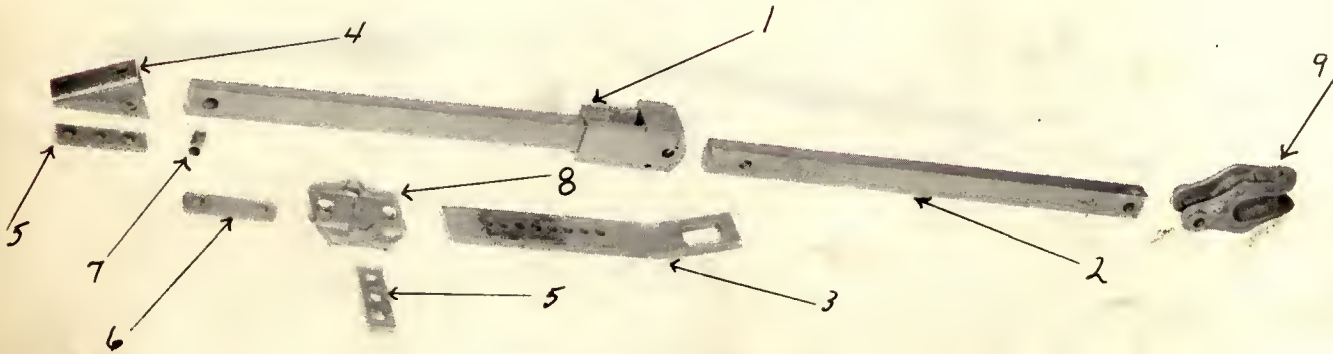
FURROW SECTOR & PARTS

REF. NO.	PART NO.	DESCRIPTION
1.	RP-244	Screw Plug
2.	5750	No. 113 Spring
3.	7809	7/16 x 6-1/2"-14 Mach. Bolt (5 1/2" Thd.) (In Screw Plug)
4.	TP-3079	Link - Furrow Lever
5.	EP-1210	Equalizer Arm for Furrow Axle
6.	217 312 B	Lift Strap for Rear Wheel (2-Bottom)
7.	217 779 B	Link - Furrow to Land Axle
8.	TP-4	Sector for Furrow Lever
9.	CP-6637	Pin in Equalizer Arm (FHNA Rivet)
10.	EP-5291	Pin in Equalizer Arm (BHNA Rivet)
11.	EP-6765	Pivot Pin for Equalizer Arm (BHNA Rivet)
12.	EP-7836	Bushing -Furrow Lever & Pivot Bolt
13.	RP-5627	Shoulder Bolt-Furrow & Land Axle Link & Leveling Link
	900 637	5/8 x 4"-11 Mach. Bolt LW (Lever, Sector & Bushing)
	915 153	5/8"-11 Hex. Nut
	920 040	1-1/4 x 1/2" #14 Steel Washer (On Spring Bolt)
	920 043	1-3/4 x 11/16" #10 Steel Washer (Lever & Sector Bolt)
	920 087	5/8" Lock Washer
	923 390	5/8 x 1-1/4" BHNA Rivet (In Equalizer Arm & Link)
	932 034	3/16 x 1" Cotter (In Drilled Rivets)
	932 045	1/4 x 1-1/4" Cotter (In Drilled Rivet)

FURROW LEVER

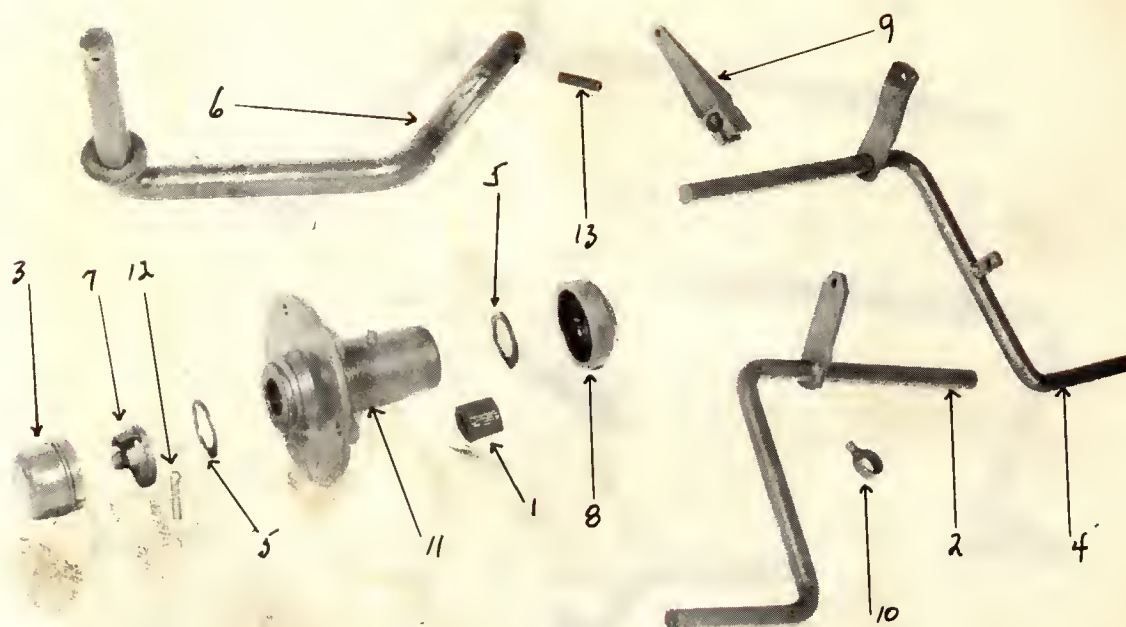


REF. NO.	PART NO.	DESCRIPTION
1.	DP-5123	Latch Wire
2.	TP-3082	Furrow Lever
3.	EP-710-A	Latch
4.	RP-19	Spring Box
5.	RP-20-X	Plunger
6.	4998	No. 90 Spring on Plunger
	900 238	3/8" x 2"-16 Cge. Bolt LW (In Plunger, Box & Lever)
	915 149	3/8"-16 Hex. Nut
	920 083	3/8" Lock Washer
	932 044	1/4 x 1" Spring Cotter (In Latch)



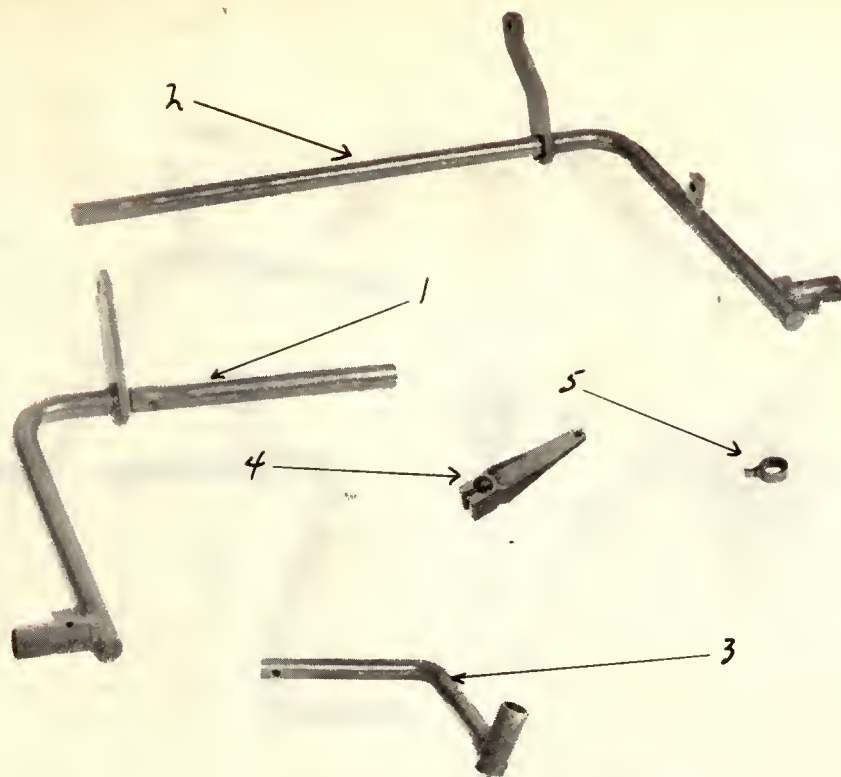
DRAWBAR

REF. NO.	PART NO.	DESCRIPTION
1.	TP-3269	Drawbar Assembly
2.	217 436 B	Drawbar Extension
3.	TP-3272	Guide - Drawbar
4.	TP-3273	Anchor - Drawbar
5.	217 183 B	Drawbar Anchor Strap
6.	DP-5497	Clamp Strap
7.	DP-5916	Bushing
8.	TP-23	Bracket
9.	217 437 B	Shackle
	900 148	5/8 x 2-1/2"-11 Cge. Bolt LW (In Drawbar Anchor & Strap)
	901 667	5/8 x 2-3/4"-11 #3 Plow Bolt (In Guide Bracket & Straps)
	908 553	3/4 x 3-1/2"-16 Mach. Bolt (In Drawbar & Extension)
	908 555	3/4 x 4-1/2"-16 Mach. Bolt (Drawbar Extension & Shackle)
	908 582	5/8 x 3-1/4"-18 Mach. Bolt (In Drawbar, Anchor & Bushing)
	915 006	5/8"-18 Hex. Nut
	915 007	3/4"-16 Hex. Nut (On Bolt in Drawbar & Extension)
	915 090	3/4"-16 Hex. Jam Nut (1-On Bolt in Drawbar & Extension) (1-On Bolt in Drawbar & Ext. & Shackle Bolt)
	915 117	5/8"-11 Hex. Nut
	920 087	5/8" Lock Washer



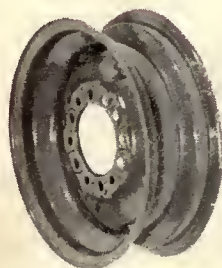
LAND, FURROW & REAR AXLES-PLAIN BEARINGS

REF. NO.	PART NO.	DESCRIPTION
1.	EP-8490	Inserts
2.	TP-3054	Furrow Axle
3.	EP-8391	Hub Cap
4.	TP-3051	Land Axle
5.	EP-8492	Wear Washer - each end of Hub
6.	217 434 BA	Rear Axle
7.	EP-994	Step Washer
8.	217 362 B	Sand Band
9.	TP-3-A	Leveling Arm for Land Axle
10.	RP-368	Set Screw Collar on Furrow Axle
11.	HR-22602	Wheel Box - Rear w/2 EP-8490 Inserts
12.	EP-5305	Linch Pin in Rear Axle
13.	EP-5183	Linch Pin in Step Collars & Axles
	908 539	5/8 x 3"-18 Mach. Bolt HT (In Land Axle Leveling Arm)
	909 577	5/8 x 3/4"-11 CP Set Screw
	909 578	5/8 x 1"-11 CP Set Screw (In Set Screw Collar)
	915 006	5/8"-18 Hex. Nut
	933 234	5/16 x 2-1/2" Rollpin in Sand Bands & Axles
	939 001	PT Grease Fitting in Boss

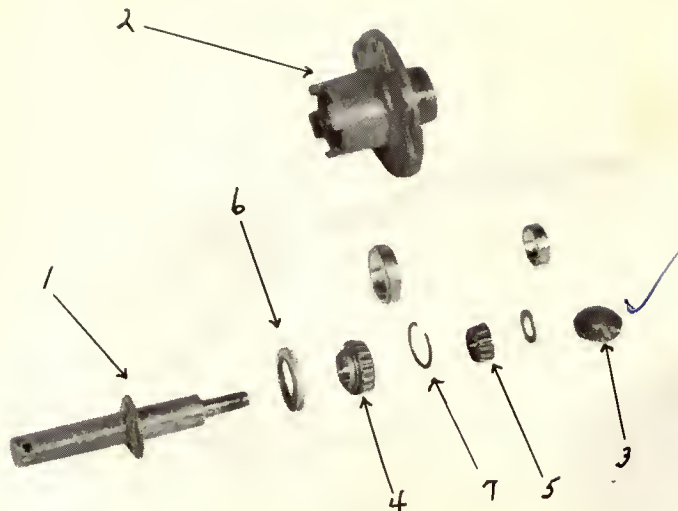


LAND, FURROW & REAR AXLES-AF BEARINGS

REF. NO.	PART NO.	DESCRIPTION
1.	217 653 B	Furrow Axle
2.	217 773 B	Land Axle
3.	217 659 B	Rear Axle
4.	TP-3-A	Leveling Arm for Land Axle
5.	RP-368	Set Screw Collar-On Furrow Axle
	908 539	5/8 x 3"-18 Mach. Bolt HT (In Land Axle Leveling Arm)
	909 577	5/8 x 3/4"-11 CP Set Screw
	909 578	5/8 x 1"-11 CP Set Screw (In Set Screw Collar)
	915 006	5/8"-18 Hex. Nut
	933 246	3/8 x 2" Rollpin in Bushing & Axle



PART NO.	DESCRIPTION
EP-8056	15" Wheel (less tire & tube)
217 950 B	14" Wheel (less tire & tube)

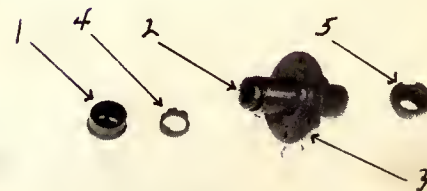


WHEEL BEARING ASSEMBLY

REF. NO.	PART NO.	DESCRIPTION
1.	TP-3181	Stub Shaft Assembly
2.	TP-14	Wheel Box
3.	TP-3182	Hub Cap
4.	TP-3183	Taper Roller Bearing (Inner)
5.	TP-3184	Taper Roller Bearing (Outer)
6.	TP-3185	Oil Seal
7.	TP-3186	Snap Ring (In Hub)
	915 035	3/4"-16 Slotted Nut
	920 015	1 1/2 x 13/16 x 1/8" Steel Washer
	932 018	1/8 x 1-1/4" Cotter Pin

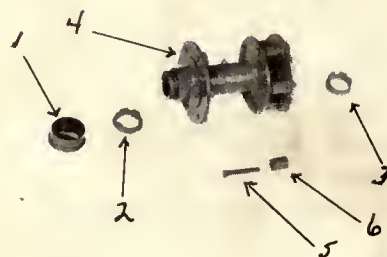
HUB FOR FURROW WHEEL

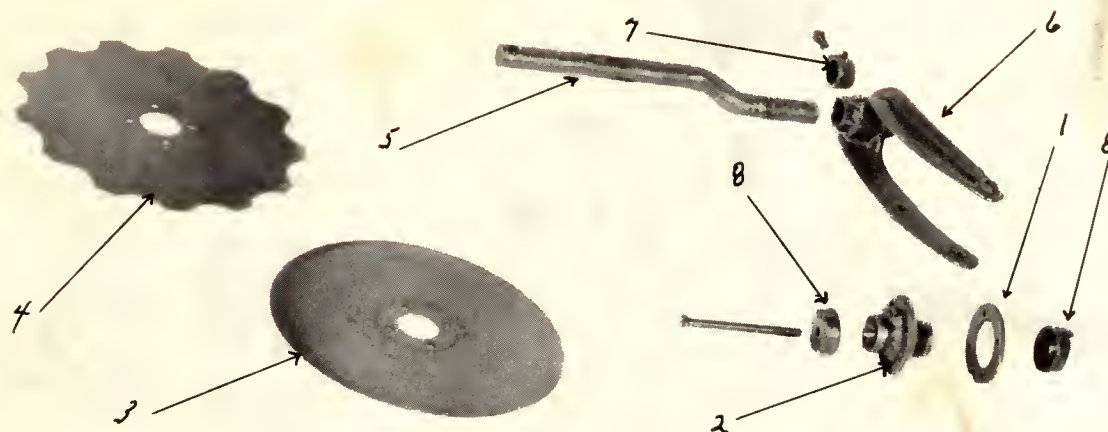
REF. NO.	PART NO.	DESCRIPTION
1.	EP-8391	Wheel Box Cap
2.	TP-3095	Inserts pressed into Box
3.	TP-8-A	Wheel Box
4.	EP-751	Step Washer
5.	TP-9	Sand Band
	50669	Wear Washer
	939 001	PT Grease Fitting in Box



HUB FOR LAND WHEEL

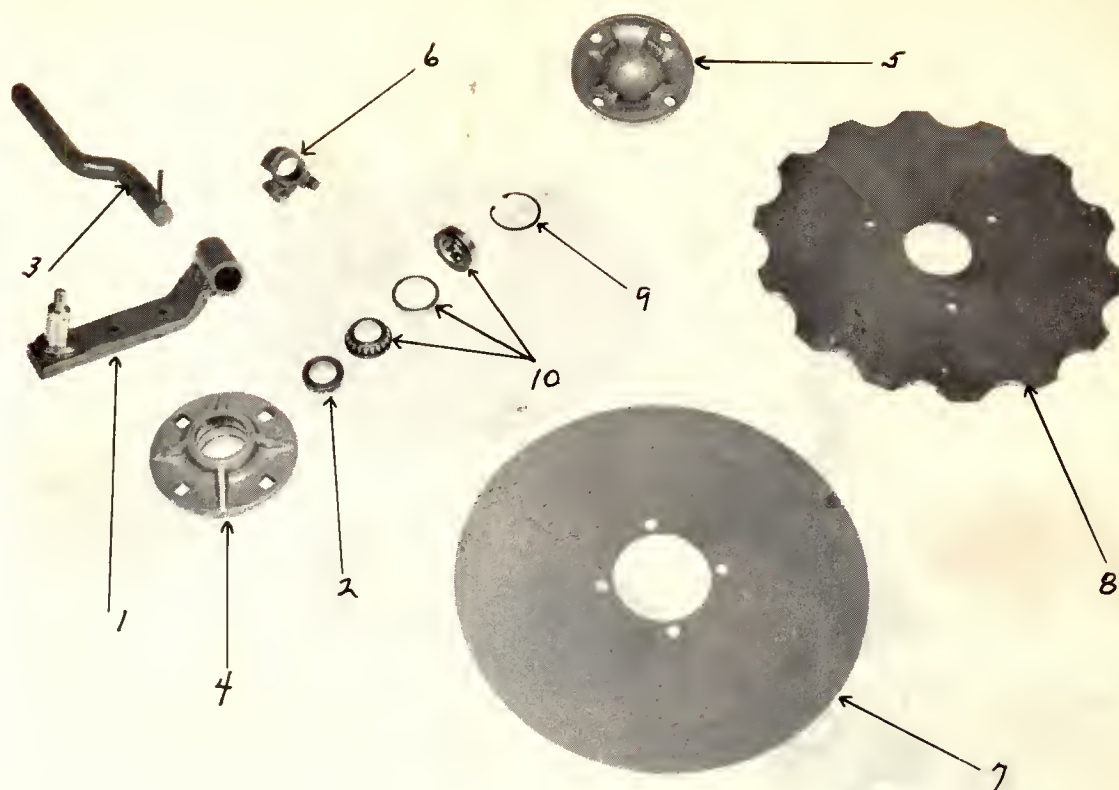
REF. NO.	PART NO.	DESCRIPTION
1.	EP-8391	Wheel Box Cap
2.	DP-16	Step Washer
3.	EP-751	Step Washer
4.	TP-7-A	Wheel Box
5.	EP-7385	Pin for Lift Roller
6.	TC-5418	Roller
	50669	Wear Washer
	932 034	3/16 x 1" Cotter (In Pins for Rollers)
	939 001	PT Grease Fitting in Box





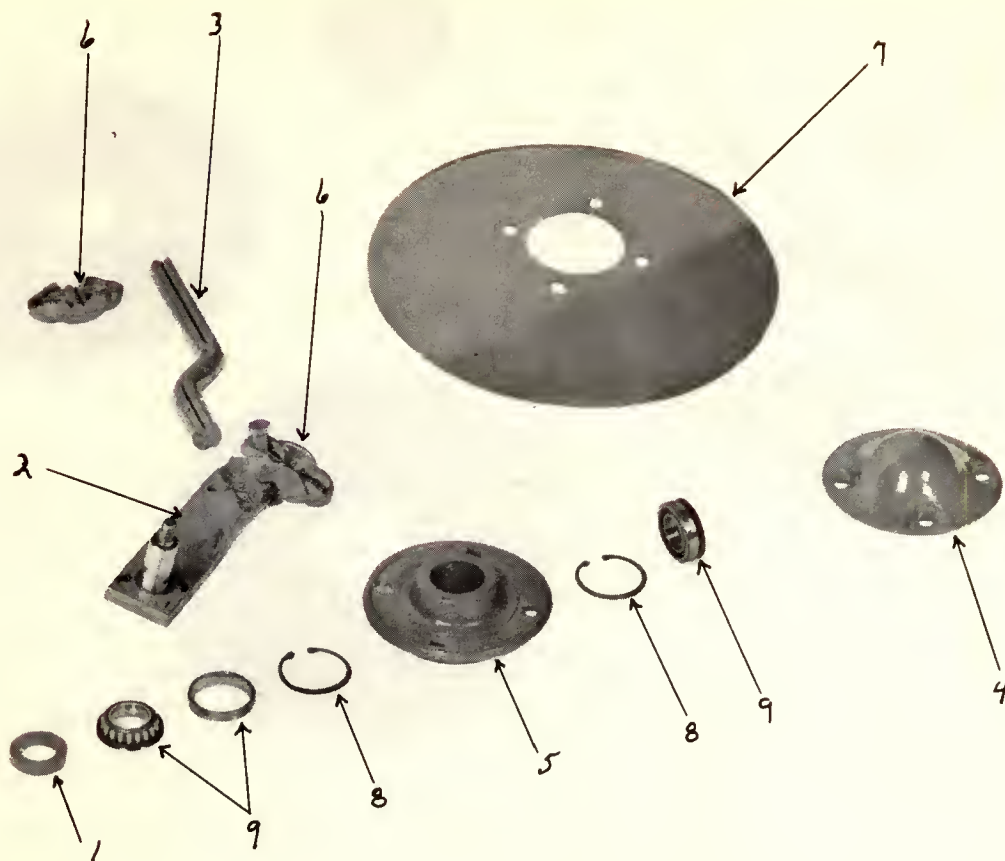
NO. 525-16" NO. 527-18" ROLLING COLTER (PLAIN)
 NO. 528-16" NO. 530-18" ROLLING COLTER (CUTAWAY)

REF. NO.	PART NO.	DESCRIPTION
1.	EP-6078	Reinforcement
2.	EP-702-A	Hub
3.	EP-6076	Blade 16" (Plain)
	EP-6077	Blade 18" (Plain)
4.	EP-7641	Blade 16" (Cutaway)
	EP-7206	Blade 18" (Cutaway)
5.	217 428 BA	Crank
6.	217 791 B	Yoke
7.	EP-846	Set Screw Collar
8.	EP-703	Cone
	908 073	1/2" x 6"-13 Mach. Bolt (Center Bolt)
	909 578	5/8" x 1" CP Set Screw (In Collar)
	915 751	1/2"-13 Lock Nut (On Center Bolt)
	923 124	5/16" x 1 1/4" BHAN Rivet (Hub & Block)
	932 047	1/4" x 1-3/4" Cotter (In Lower end of Crank)
	939 001	PT Grease Fitting in Hub



#533-18" AF ROLLING COLTER - PLAIN
#534-18" AF ROLLING COLTER - CUTAWAY

REF. NO.	PART NO.	DESCRIPTION
1.	217 887 B *	Spindle Arm
2.	217 297 BA	Spacer
3.	217 888 B *	Crank
4.	217 295 B	Hub
5.	217 030 BA	Cap
6.	217 889 B	Collar - Stop
7.	217 306 B	Disc -18" Plain
8.	217 309 B	Disc -18" Cutaway
9.	217 296 B	Snap Ring Internal (In Hub)
10.	217 301 B	Taper Roller Bearing
	9243	1-3/4 x 11/16 x 1/4" Flat Washer (on spindle)
	909 578	5/8" x 1" CP Set Screw (In Stop Collar)
	900 114	1/2" x 1 1/2"-13 Cge. Bolt (In Hub, Block & Cap)
	915 115	1/2"-13 Hex. Nut
	915 639	5/8"-18 Type TE Elastic Stop Nut (On Spindle)
	933 246	3/8" x 2" Rollpin (In Colter Crank)



NO. 4 DISC JOINTER

REF. NO.	PART NO.	DESCRIPTION
1.	217 297 BA	Spacer
2.	217 857 BA *	Disc Arm
3.	217 858 B *	Crank
4.	217 030 BA	Cap
5.	217 295 B	Hub
6.	217 859 B	Clamp Cap (1-Arm to Crank) (1-Crank to Beam)
7.	217 031 B	Disc Blade-16"
8.	217 296 B	Snap Ring
9.	217 301 B	Bearing Cup, Cone and Seal
	9243	1-3/4 x 11/16" x 1/4" Flat Washer (On Spindle)
	900 114	1/2 x 1-1/2"-13 Cge. Bolt (In Hub, Blade & Cap)
	908 433-3	5/8 x 3-1/2"-11 Mach. Bolt HT (Disc Arm, Crank & Cap)
	915 115	1/2"-13 Hex. Nut
	915 117-3	5/8"-11 Hex. Nut
	915 639	5/8"-18 Type TE Elastic Stop Nut (On Spindle)

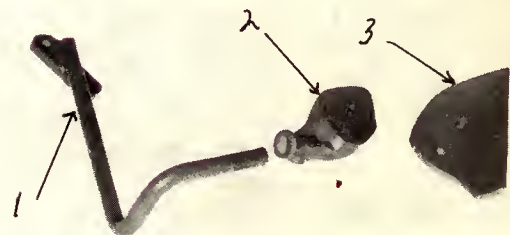
NO. 523 ROLLING COLTER
CHILLED JOINTER ATTACHMENT



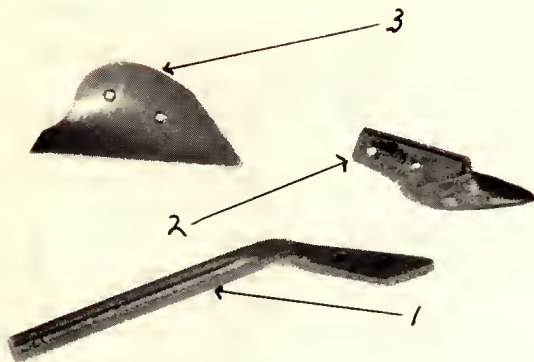
REF. NO.	PART NO.	DESCRIPTION
1.	EP-8172-A	Jointer Standard
2.	EP-707-A	Frog
3.	EP-708-XX	Moldboard & Point
	50653	7/16 x 2"-14 Cge. Bolts HT LW (In Std. & R/C Yoke)
	901 802	3/8 x 1-1/4"-16 #3 (Rep. Hd.) Plow Bolts HT (In Point & Frog)
	909 577	5/8 x 3/4" CP Set Screw (In Frog for Standard)
	915 149	3/8"-16 Hex. Nuts
	915 150	7/16"-14 Hex. Nuts
	920 084	7/16" Lock Washers

NO. 531 ROLLING COLTER
CHILLED JOINTER ATTACHMENT

REF. NO.	PART NO.	DESCRIPTION
1.	217 308 B	Jointer Std.
2.	EP-707-A	Frog
3.	EP-708-XX	Moldboard & Point
	901 802	3/8 x 1-1/4-16 #3 Plow Bolts (Repair Hd.) (In Point & Frog)
	908 538	5/8 x 2-3/4"-18 Hex. Hd. Mach. Bolt (Std. Clamp Strap)
	909 577	5/8 x 3/4" CP Set Screw (In Frog for Std.)
	915 006	5/8"-18 Hex. Nut
	915 113	3/8"-16 Hex. Nuts



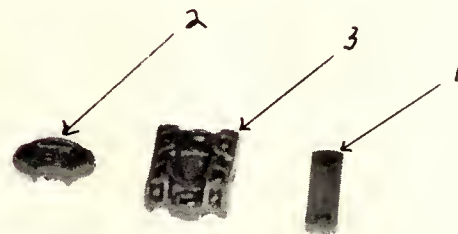
R. NO. 341 CHILLED JOINTER FOOT



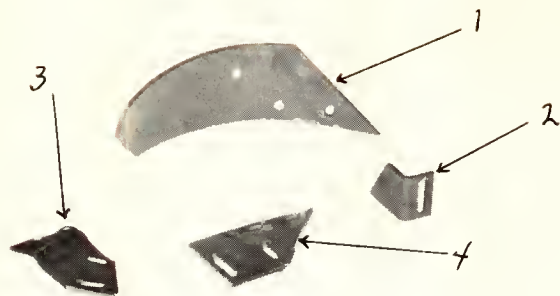
REF. NO.	PART NO.	DESCRIPTION
1.	EP-8529	Standard
2.	F-2668-X	Frog
3.	EP-708-XX	Jointer M1bd. & Point
	900 235	3/8 x 1-1/4"-16 Cge. Bolt (Std. & Frog-Lower)
	900 236	3/8 x 1-1/2"-16 Cge. Bolt (Std. & Frog-Upper)
	901 802	3/8 x 1-1/4"-16 #3 (Rep.Hd.) Plow Bolts HT (1-M1bd. & Frog-Rear) (1- M1bd. & Frog-Front)
	915 149	3/8"-16 Hex. Nuts

NO. 360 CLAMP COMPLETE

REF. NO.	PART NO.	DESCRIPTION
1.	DH-7067	Clamp Strap
2.	EP-1124	Cap for Jointer Block
3.	EP-1301	Jointer Block
	901 183	1/2 x 3"-13 Sq. Hd. Mach. Bolts (Block & Cap)
	901 668	5/8 x 3"-11 #3 Plow Bolts (Block & Clamp Strap)
	915 151	1/2"-13 Hex. Nuts
	915 153	5/8"-11 Hex. Nuts
	920 087	5/8" Lock Washers



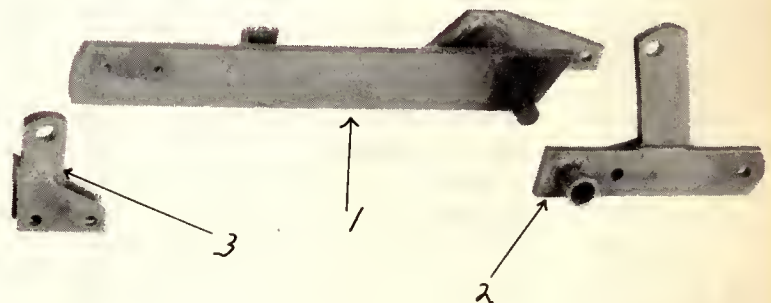
MOLDBOARD JOINTER ATTACHMENT



REF. NO. +	PART NO.	DESCRIPTION
1.	217 717 B	Jointer Board (for 419, 519, 619 & 719 Moldboard)
	217 719 B	Jointer Board (for 25, 34, 225, 234, 425, 434, & 625 Moldboard)
2.	217 714 B	Wedge (for both Jointer Boards)
3.	217 715 B	Bracket (for 419, 519, 619, 719 & 625)
4.	217 720 B	Bracket (for 25, 34, 225, 234, 425 & 434)
	901 801	3/8" x 1"-16 No. 3 Plow Bolt (Rep. Hd.) (Bracket & Jointer Wedge & Jointers)
	901 803	3/8" x 1 1/2"-16 No. 3 Plow Bolt (Brkt., M1bd. & Shin)
	915 113	3/8"-16 Hex. Nut
	920 039	1 x 7/16" #14 Steel Washer (Brkt. & Jointer-Wedge & Jointer)
	960 001 M	Oliver Decal 7/8"

HYDRAULIC CYLINDER SADDLE (FIELD CONVERTING PARTS)

REF. NO.	PART NO.	DESCRIPTION
1.	TP-3247	Cylinder Support
2.	TP-3252-A	Pivot
3.	217 438 B	Cylinder Anchor



PLOW CONTAINER & PARTS

PART NO.	DESCRIPTION
K-736	Hub Bolt
217 939 B	Name Plate w/Model No. 4240 Plow & Serial Number consecutively.
960 064	Decal Shield - 2-1/4"
960 084	Decal "Oliver" - 1-9/16"
933 234	5/16 x 2-1/2" Rollpin - in Rear Axle & Adj. Arm Rollpin
933 261	1/2 x 2-1/2" Rollpin - in Rear Axle & Adj. Arm

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DP-5497	Clamp Strap	42	RP-20-X	Plunger	42
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EP-1130-X	Lift Pawl	38	TP-8-A	Wheel Box.	45
EP-1131-A	Latch	38	TP-9	Sand Band.	45
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EP-1132	Roller Carrier.	38	TP-17	Box	38
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REPAIR PARTS LIST

The following parts have been redesigned and are not interchangeable with parts that replace them.

DP-5485	Draw Bar Anchor Strap
EP-995	Wheel Box Cap (LH Thd.)
EP-1215 B	Draw Bar Lock
EP-1216	Draw Bar Guide Bracket
EP-1255 A	Wheel Box (LH Thd.)
EP-1295	Adjusting Arm
EP-6454	Draw Bar Anchor Strap
EP-6646	Draw Bar Anchor
EP-7312	Wear Washer (used on Axle)
EP-7389	Roller (used in Rear Axle Sleeve)
EP-7678	Eye Bolt
EP-8009	Axle (For Rear Wheel)
TP-10-A	Lift Arm
TP-11-B	Rear Axle Sleeve
TP-18	Draw Bar Guide Bracket
TP-3002 B	Beam Foot
TP-3004	Gusset Plate (Used w/TP-3002-A or TP-3002-B)
TP-3043	Front Brace
TP-3044	Adjusting Front Brace
TP-3055	LH Drawbar
TP-3056	RH Drawbar
TP-3059 A	Draw Bar Extension
TP-3073	Sector - Land Lever & Sector
TP-3081	Draw Bar Guide
TP-3083	Control Strap (For Rear Wheel)
TP-3102	Rear Axle Bracket
TP-3104	Bushing
TP-3105	Pin - used in axle sleeve & roller)
TP-3229	Brace (Land Lever & Sector)
TP-3238	Corner Brace
TP-3298	Spacer (Rear Axle & Brkt.)
23858	Rear Wheel
217 026 B	Washer
217 027 B	Disc Arm Assembly
217 028 B	U-Bolt (for #1 & #2 Disc Jointer)
217 029 B	Hub
217 032 B	Spacer (For #1 Disc Jointer)
217 035 B	Taper Roller Bearing
217 036 B	Oil Seal
217 182 B	Lock Plate (For #1 & #2 Disc Jointers)
217 294 B	Disc Arm (For #2 Disc Jointer)
217 304 B	Spindle & Arm Assembly (A.F. R/C)
217 305 B	Crank (For #1 & #2 Disc Jointer & A.F. R/C)
217 432 B	Rear Axle Bracket
217 435 B	Adjusting Arm (Rear Axle & Bracket)

THE OLIVER LINE

Manufacturing Plants and Products

BATTLE CREEK, MICHIGAN

Self-Propelled Combine Harvesters	Mounted Corn Picker-Huskers (2-row type)
Pull-Type Combine Harvesters	Corn Picker-Huskers & Shellers

CHARLES CITY, IOWA

Wheel-type Agricultural Tractors (Row Crop, and General Farm type)	Wheel-type Industrial Tractors
	Industrial Transmissions

SHELBYVILLE, ILLINOIS

Balers:	Side Delivery Rake
Twine Tie	Manure Spreaders
Wire Tie	
Cotton Harvesters	Tractor Mowers:
Farm Loader	Mounted
	Trailer Type

SOUTH BEND, INDIANA

Bean Harvesters	Cotton Busters
Beet & Bean Cultivators	

SOUTH BEND, (continued)

Cultivators:	Plows:
Tractor	Chisel
Beet and Bean	Disc
Disc	Moldboard
Field	Middlebreaker
Listed-Crop	Subsoiler
One-Row Corn	Two-Way
	Raydex Plow Bottoms
Fertilizer Side Dressing Attachments	Potato Diggers
Grain Drills	Pulverizers
	Rotary Hoes
Harrows	Fertilizer Spreaders
Disc	Tractor Mtd. Implements:
Splke Tooth	Harrows
Spring Tooth	Cotton Busters
	Cultivators
Planters:	Listers
Bean and Pea	Planters
Corn (Check Row or Drill)	(Cotton & Corn)
Cotton	Plows
Potato Digger	Universal Tool Bars
	Rotary Hoes

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