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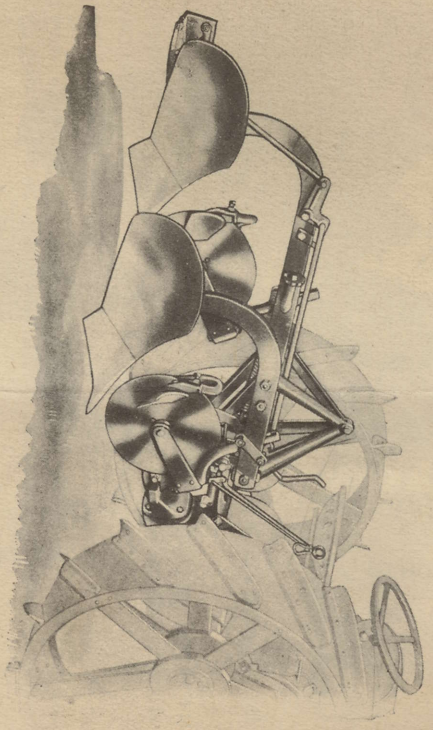
1921

Price in this book and cover

INSTRUCTIONS AND REPAIR
PARTS BOOK

FOR

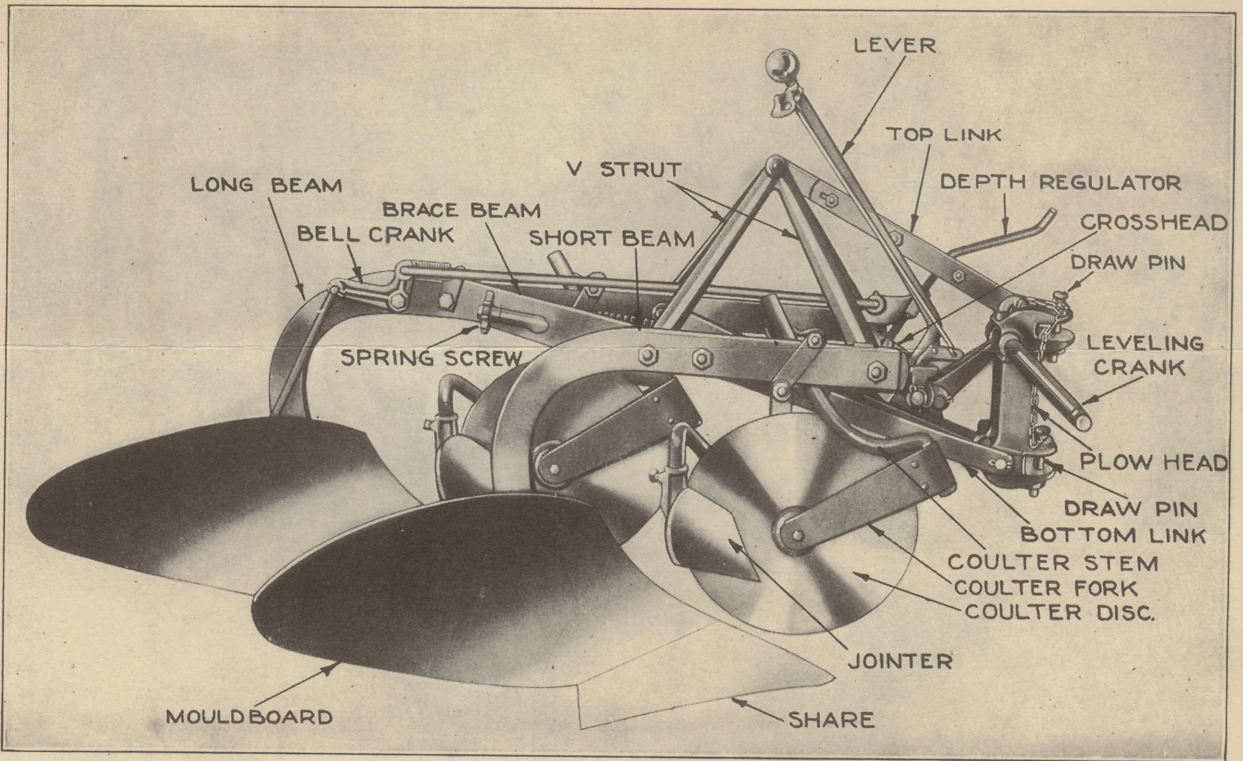
The Ferguson Plow



Manufactured by

Ferguson - Sherman, Inc.
Evansville, Ind., U. S. A.





Foreword

THE PURPOSE of this Instruction Book is to familiarize the farmer with the proper operation of the Ferguson plow. Unless the Ferguson Principle is understood thoroughly you cannot expect to get good results.

For the first time in the history of man, the line of draft of an agricultural implement has been changed, eliminating the necessity for weight and making it possible to connect the implement to the tractor, without wheels.

Do not destroy this booklet, but save it and study it carefully as it is the basis of education that will set new standards in the Power Farming industry. Other implements will be made on the Unit Principle as it is the only medium through which the farmer can hope to eliminate his horses.

With the Ferguson plow you can do anything you can with a horse and walking plow, even to plowing out the smallest garden plot. It is easy to attach and detach if properly understood.

With it you can plow round or square corners, finish lands as well as you can with a team.

The line of draft ties the tractor to the ground under all conditions, but remember, you will not obtain the full advantages of this Unit unless you understand it.

Guard the booklet carefully so that you can refer to it from time to time as you will find that as you use the Ferguson plow, you will learn something new about it every day.

Ferguson - Sherman, Inc.

Manufacturers of Power Farming Machinery
 Cable Address: "Ferguson"
 Evansville, Indiana

The plow as shipped consists of the following: 1 Bundle containing Plow with Shares, Tractor Hitch, Control Lever and Wrench wired to plow frame and Depth Screw placed in front end of Balance Spring; 1 Bundle consisting of Rolling Coulters and Jointers.

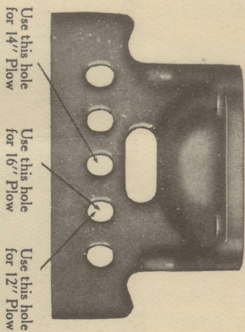


FIG. 1

Draw Bar Cap

The Ferguson Plow requires a Draw Bar Cap with a square end, Fig. 1, the same as is furnished on all Improved Model Fordson tractors. If tractor is an old model and not equipped with a square end Draw Bar Cap, it must be replaced with the late style cap.

When this change is necessary, care must be taken to thoroughly clean the face of the Draw Bar Cap and Tractor Housing of all paint, grit and parts of broken gaskets, or the new cap will be strained when the bolts are tightened, causing a broken cap the first time it gets a shock.

Don't neglect to use a New Gasket when making this change and make sure all four bolts are pulled tight.

To Attach Abutment

Attach the abutment as shown in Fig. 2, placing the long end of the plates "Up," using the same bolts removed from tractor housing. Tighten the long abutment bolt very securely with the wrench used for the Fordson rear wheels.

Remove Paint and Varnish

Do not attempt to use the plow until all paint and varnish have been removed from mouldboards, shares and landsides, also from both sides of rolling coulters and top side of jointers. Plow bottoms will not scour so long as any paint or varnish remains on them.

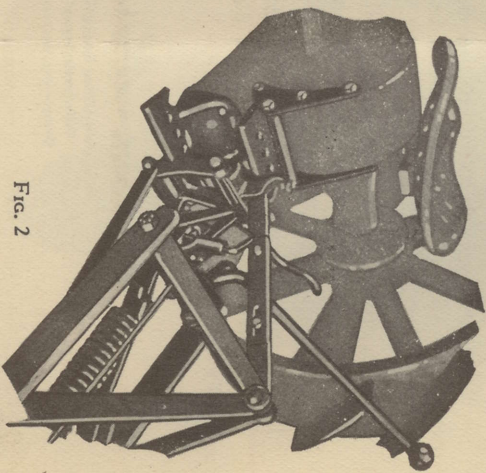


FIG. 2

Paint and varnish can easily be removed by applying a good grade of varnish remover, or using a strong lye solution. Avoid spilling lye solution on hands or clothing.

Better results will be obtained and the draft on the plow greatly reduced after the mouldboards get a good land polish by plowing for a few hours.

To Attach Plow To Tractor

Clean off all paint from both Draw Pins and apply a thin coat of oil.

NOTE: For ease of attachment and detachment, place the plow on a level place as this will keep the Draw Pins from binding.

Loosen adjusting screw on end of Balance Spring and unhook the front end of the spring—this permits the plow head to be raised by use of the Control Lever. Now back the tractor to the plow and lift Plow Head by means of Control Lever to correct height for plow head to enter Draw Bar and Abutment.

Fit Top Pin first. Line up bottom holes by turning Leveling Crank forward or backward. After inserting both draw pins, take hold of back of plow and raise to Top notch. Hook forward end of balance spring into the Spring Link and then tighten spring just enough to take the slack out of it when plow is raised to its full height.

The final adjustment of the spring can be determined by the operator after plowing is begun. For average conditions, it should be adjusted so that it will not quite balance the plow when in first notch. When the soil is soft or heavy, a strong tension should be kept on the spring so as to reduce the penetration. For hard, dry, or stony ground reduce the tension of the spring—this will increase the penetration.

To Adjust Control Lever

Control lever should have ample clearance between fender and seat. To adjust, slacken nut binding lever in its taper hole, and shift lever to desired position. Tighten nut again very securely.

How To Detach Plow From Tractor

Raise the plow with the Control Lever to the Top notch. Loosen the Balance Spring and unhook the front end of the spring. Now stand on left side of plow and, with right hand on rear beam and left hand on Control Lever, let the plow down easily so as to avoid share breakage. Now turn the Leveling Crank forward or backward until side strain is taken off the Draw Pins. Remove BOTTOM pin first. Then remove top pin.

Adjustment of Disc Coupler

The correct height of the front disc for normal plowing is approximately $\frac{1}{4}$ " above the share at the nearest point.

The correct height of the rear disc is approximately $\frac{1}{2}$ " above the share at the nearest point.

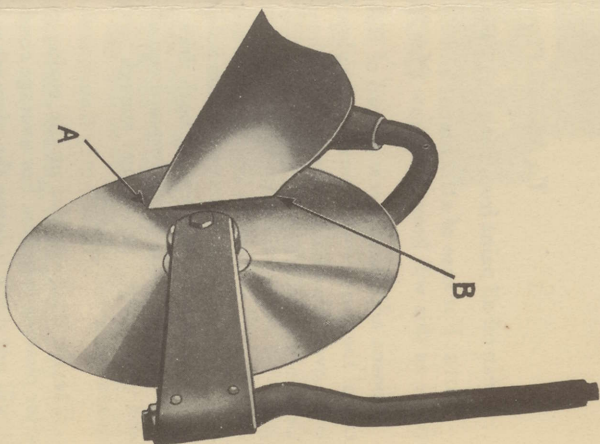
In very trashy ground it may be necessary to raise both discs but they should always be kept as close as possible to the above instructions. Raising the discs will always increase the penetrations and the draft on the plow and they should never be raised above what is necessary.

When making an adjustment laterally over the share, the coupler stem should not be turned more than $\frac{1}{16}$ " at a time, because a very small movement of the stem swings the disc a considerable distance in or out.

Both the discs should be kept as far in as possible, provided the furrow wall is not breaking.

This is particularly the case with the REAR disc. When the rear disc is set in this way there is a straight furrow wall, which gives excellent support for the landside.

Wear in the hub can be taken up by taking it from the fork and re-moving one of the washers from between the cones. The hub is made from special material and can be used without lubrication.



Adjustment of Jointer

The jointer should be swung on its arm until the point "A" is pressing firmly on the disc, and open at the top about $\frac{1}{2}$ ", as illustrated at "B."

Do not set the jointers too deep as this increases the draft and causes a poor job of plowing. Set them just deep enough to roll a thin slice of the ground into the bottom of the furrows.

How to Fit Standing Jointer

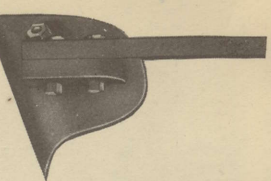


FIG. 12

The jointer palm is fitted on the right side of the stem, as illustrated, Fig. 12, for the 12" plow and for the 14" plow.

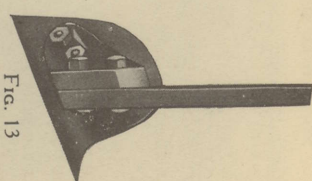
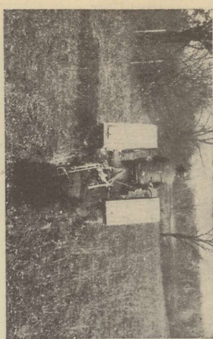


FIG. 13

The jointer palm is fitted on the left side of the stem, as illustrated, Fig. 13, for the rear bottom on the 14" plow and for the single bottom plow.

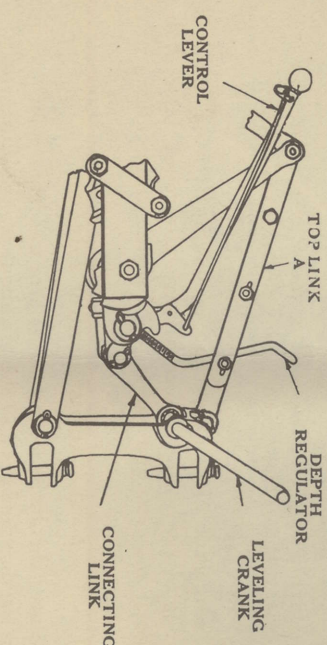
Marking Headland

To get best results a headland furrow is essential. This furrow makes the plow much easier to operate. It also assures a perfect entry and finish. Note how the plow is tilted so that only the rear bottom is plowing. Always throw the furrow towards the center of the field as illustrated.



The tilting of the plow in opening a land is very important, otherwise the wings of the shares will contact with the ground first and the plow will not take to the ground readily.

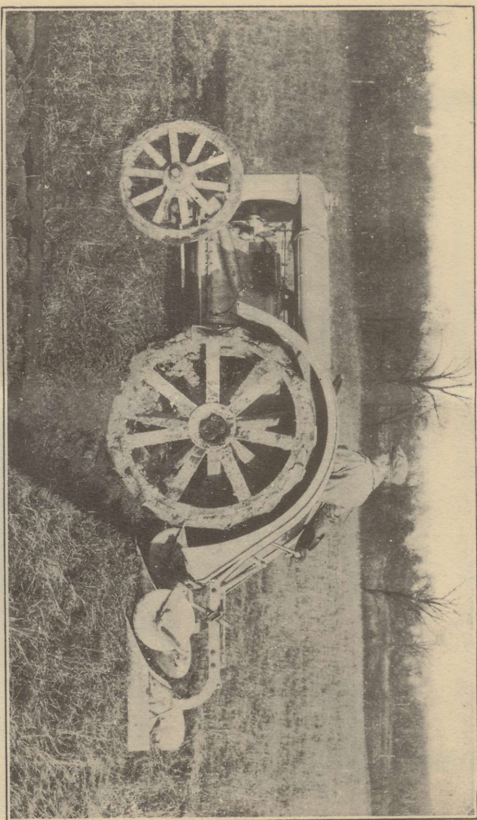
Leveling the Plow Sideways



IMPORTANT

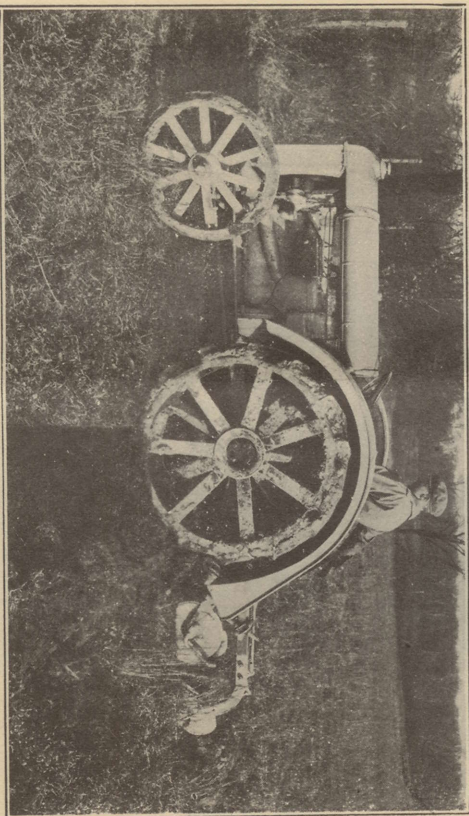
When plow is running level the BALL of the Connecting Link will be approximately under Top Link "A." This applies to 12" and 16" plows only. 14" plow will be running level when Connecting Link BALL is approximately under Cotter Key that holds Top Link in place. Turn leveling crank forward to lower front base and backward to raise it.

Entering the Furrow



When the rear wheels of the tractor are just climbing out of the headland furrow, as illustrated, release the pawl and give the lever a push backwards, keeping pressure on it until the shares enter the ground.

To Lift Plow Out



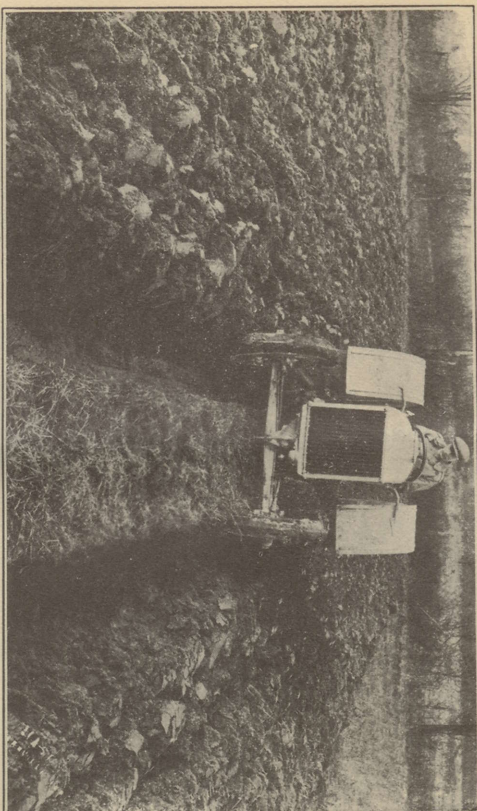
With a little practice the plow can be lifted out with two fingers.

When nearing the furrow end, reduce the tractor speed. When the rear wheels of the tractor drop into the headland furrow, as illustrated, take hold of the control lever and hold it for a moment until the tractor has climbed out of the furrow.

The tractor actually lifts the plow out and it is then only necessary to pull the lever into the first notch on the quadrant. Do not raise the plow to the top notch because this is not necessary and makes more work at the finish and entry.

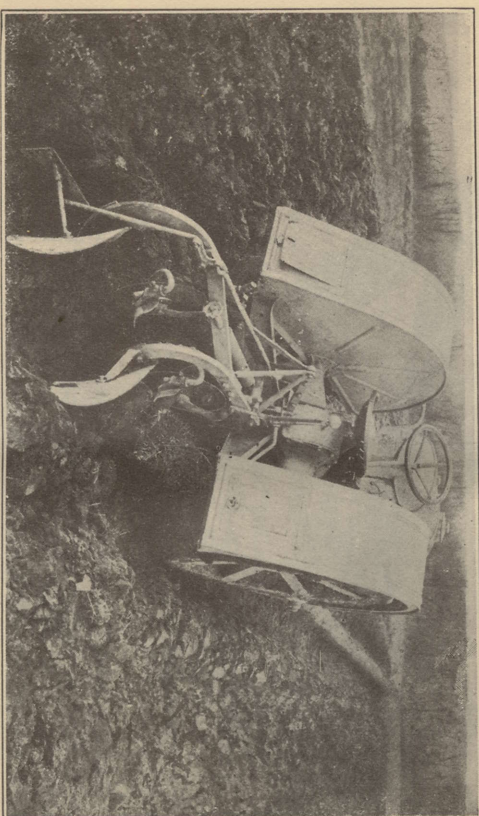
It will be seen that the purpose of the headland furrow is to break the soil so that there will be no penetration on the implement when it is being lifted out.

How to Finish a Land With the 12" Two Bottom Plow



The Ferguson Plow makes a perfect finish if properly used. When the plot gets so narrow that the tractor wheels will span it, drive the tractor, as illustrated, with the left-side wheel against the furrow wall. If above instructions are carried out, a narrow strip, as shown, will be left.

Finishing A Land Perfectly



Tilt the plow over to the left, as when plowing a headland furrow, and drive the tractor in the normal position as shown.

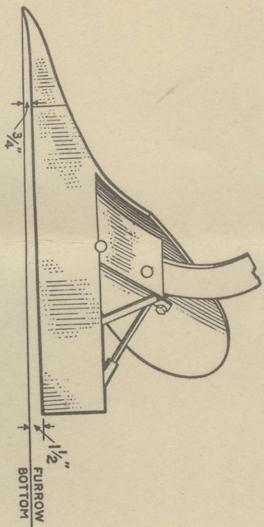
The plow will be kept from swinging round by the plowed ground and a more perfect finish can be made than with horses.

Finishing a Land with a 14" Plow

Follow above instructions exactly with the exception that instead of the tractor being driven in the normal position with the wheels against the furrow wall as shown above, drive with the front wheel in the center of the furrow.

How to Finish A Land With A Single Bottom Plow

When splitting the finish of the land, just before throwing off the last furrow, raise the plow until it will plow about five inches deep, only. This will leave a piece of firm ground for supporting the landside when the last furrow is being plowed.



Showing How Landside is Fitted

On the ordinary type of plow the landside runs on the furrow bottom, but, on the Ferguson Plow the landside is raised at the rear $1\frac{1}{2}$ " above the furrow bottom to allow the plow to enter quickly and keep at a regular depth over wavy ground. The $\frac{3}{4}$ " measurement shown, shows the correct height of the share gunnell when the share is new.



Leveling the Plow Lengthwise

To keep both bottoms at the same depth the plow must run level lengthwise.

There is a groove in the top link and when the plow is new these grooves should be in line. As wear takes place in the connections, the top link will have to be lengthened to counteract this.

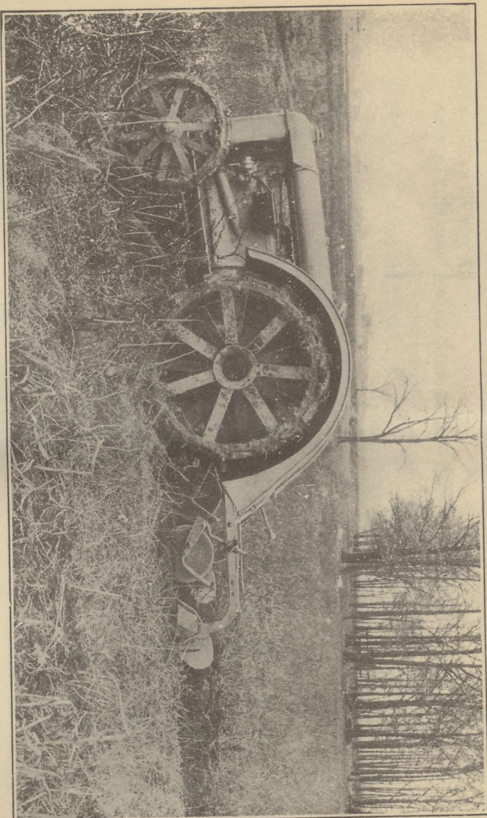
The correct height of the landside is important for the proper operation of the plow, and adjustments should be made to it by the top link when the plow is **IN THE GROUND**.

To shorten the top link loosen the clamping nuts and drive the tractor forward a few inches. To lengthen it, slacken the clamping nuts and pull the control lever forward.

If the top link is too short, the landside will be too high and the front furrow will be too deep. If the link is too long, the landside will be too low, the front furrow will be too shallow, and the plow will tend to run out.

Do not attempt to adjust the height of the landside until the plow is plowing normally, and no adjustments whatever are required to it for marking headlands or opening the land or finishing a plot.

How to Cross a Wash



Just as the front wheels of the tractor are dropping into the wash, turn the depth regulator rapidly to let the plow in as deeply as possible.

NOTICE

The greatest care should be taken when reversing. When reversing, always put the lever in the TOP notch. Take the greatest care that the plow is not backed into anything as tremendous strains can be put upon the implement in this way.

DO NOT USE THE ABUTMENT AS A DRAW BAR UNDER ANY CIRCUMSTANCES WHATSOEVER.

On no account use the plow with any draw pins smaller in diameter than its own draw pins.

When plowing where there are large stones or tree roots, the tractor should be driven **SLOWLY**.

Lubrication and Care of the Plow

Farm implements do not receive much attention but it is hoped that the Ferguson Plow, which is a beautiful piece of engineering, may give the farmer a pride of ownership which will induce him to take care of it; doing so will greatly reduce upkeep cost.

An immense amount of money has been spent in designing the implement to eliminate the necessity for lubrication, but some parts need attention.

If the crosshead bearing is not oiled regularly the plow may not keep at a regular depth.

Oil leveling regulator thread.
Oil leveling crank thread.

Practically all other moving parts are so designed they do not require oiling. Oil will only attract grit, causing rapid wear. Should a squeak develop in a rolling coultter hub it can be eliminated by applying a little kerosene.

When finishing a plot of ground or stopped plowing for the day, or storing the plow, be sure to oil the front cross head bearing (through oil cup) and apply a heavy coat of lubricant to all polished parts, such as mouldboards, shares, rolling coultters and jointers. If this is not done, rust will eat into the hard material, causing pitted places, which will cause the plow not to scour and can only be corrected by the replacement with new parts.

Causes of Bad Plowing

Plowing is a highly skilled operation and a good plowman has reason to be proud of his art.

The three main causes of bad plowing are:

- (1) Furrows not same width.
- (2) Furrows not same depth.
- (3) Jointers not cutting equally.

The width of the furrows can be equalized by shifting the plow on the Draw Bar Cap.

The depth of the furrows can be equalized in a moment by the leveling crank.

Do Not Overload Tractor

Overloading has damaged the development of the light tractor because it is the cause of high upkeep cost in fuel and repairs.

The only way to guarantee low upkeep cost from any tractor is to drive it at moderate speed, with the engine lightly laden. The Ferguson Plow has been designed with a full knowledge of this fact, and the plow bottom and mechanism have been especially designed for plowing at moderate speeds.

Repair Parts Price List

Prices Subject to Change Without Notice

STATE SERIAL NUMBER OF PLOW, SHOWN ON NAME PLATE

Note: Base Parts including Shares, Bolts, Nuts and Supplies listed under separate headings.
Note: Special Parts used on 14" Two Bottom and 16" Single Bottom Plows listed separately.

Part Number	Material	List Price	Description	Number of Plow Used On
F1	Alloy Steel	\$10.50	Long Beam, 1 x 2 1/2" Section.	501-855
F1A	Alloy Steel	10.50	Long Beam, 1 x 2 1/4" Section.	856-1199
F1B	Alloy Steel	10.50	Long Beam, 1 x 2 1/4" Section.	1200-5500
F1C	Alloy Steel	10.50	Long Beam, 1 x 2 3/4" Section.	6501-13052
F1D	Alloy Steel	10.50	Long Beam, 1 x 2 3/4" Section.	13053-up
F2	Alloy Steel	8.25	Short Beam, 1 x 2 1/2" Section.	501-855
F2A	Alloy Steel	8.25	Short Beam, 1 x 2 1/4" Section.	856-1199
F2B	Alloy Steel	8.25	Short Beam, 1 x 2 3/4" Section.	1200-5500
F2C	Alloy Steel	8.25	Short Beam, 1 x 2 3/4" Section.	6501-up
F3A	Alloy Steel	4.00	Brace Beam, 3/4 x 2 1/4" Section.	501-5500
F3B	Alloy Steel	4.00	Brace Beam, 3/4 x 2 1/2" Section.	6501-up
F4A	Alloy Steel	2.5	Coultter Stem and Standing Jointer seat.	501-5500
F4B	Steel	2.5	Coultter Stem and Standing Jointer seat.	6501-up
F4C	Steel	2.5	Coultter Stem and Standing Jointer seat.	501-up
F4D	Steel	2.5	Coultter Stem and Standing Jointer seat.	501-up
F22	Spring Steel	.60	Draw Pin.	501-up
F23	Spring Steel	1.25	Bottom Link.	501-up
F24	Spring Steel	1.30	Diagonal Link.	501-up
F25	Spring Steel	3.5	Coultter Clamp, 3 3/8 Inch Hole Centers Front.	501-up
F26A	Spring Steel	.85	Top Link.	501-up
F28	Steel	.40	Top Link Pin.	501-up
F29	Steel	.40	Bottom Link Pin.	501-up
F31AX	Steel	.60	Connecting Link Pin.	501-up
F33	Steel	.50	Spring Link.	501-up
F34	Steel	.35	Coultter Clamp, 4 Inch Hole Centers Rear.	6501-up
F38A	Spring Steel	.25	Pawl Rod.	501-up
F40	Spring Steel	.15	Hinged Oil Cup.	501-up
F42	Spring Steel	.25	Pawl Spring.	501-up
F43	Steel	.65	Pawl Spindle.	501-up
F47	Steel	2.25	Crosshead Shaft, U.S.S. Thread.	1200-up
F47A	Alloy Steel	2.25	Crosshead Shaft, S.A.E. Thread.	501-9600
F48	Alloy Steel	3.00	Coultter Disc 1 3/8" DIA.	501-1199
F49A	Alloy Steel	2.50	Coultter Stem.	1200-9600
F49B	Alloy Steel	2.50	Coultter Stem.	501-1199
F51	Steel	1.75	Hub Spindle, U.S.S.	1200-9600
F51A	Steel	2.00	Hub Spindle, S.A.E.	501-1199
F52	Steel	.25	Dust Cap.	1200-9600
F52A	Steel	.25	Dust Cap.	501-5500
F54	Steel	.50	Coultter and Standing Jointer "U" Bolt.	6501-up
F54A	Steel	.30	Jointer Blade.	501-up
F55	Steel	1.75	Front "V" Strut.	501-up
F56	Steel	.75	Rear "V" Strut.	501-up
F57	Steel	1.50	Leveling Crank.	501-up
F58A	Steel	.20	Leveling Crank Sleeve.	501-up
F59	Steel	.30	Link Collar, Right Hand.	501-up
F60	Steel	.30	Link Collar, Left Hand.	501-up
F61	Steel	.70	13/16" - 1-1/16" Wrench.	501-up
F63B	Steel	.45	Wheel Scraper.	501-5500
F64	Steel	.15	"V" Strut Spacer.	501-1199
F65	Steel	.15	"V" Strut Spacer.	1200-up
F65A	Steel	.15	Cross Head Bushing.	3300-up
F66A	Steel	.05	Gasket.	501-up
F68	Straw Board	4.00	Wheel.	501-5500
F69B	Steel	.40	Wheel Strut.	501-5500
F71	Steel	.30	Abutment Plate.	501-up
F75	Steel	.30	Abutment Plate.	501-up

Part Number	Material	List Price	Description	Number of Plo Used On
F79	Steel	\$.25	"S" Hook and Chain	501-up
F83	Steel	2.00	Standing Jointer Stem	501-up
F93	Steel	.90	Rocker Rod	6501-up
F94	Steel	.80	Skid Rod	6501-up
F95A	Steel	.65	Skid Spacer	6501-up
F96	Steel	.50	Bell Crank Spacer	6501-up
F97B	Steel	.75	Depth Regulator	13670-up
P88A	Steel	.20	Depth Screw Plate	9601-up
F121	Steel	1.50	Front Coupler Stem	9600-up
F124	Steel	1.15	Jointer Arm	9600-up
F126	Steel	1.50	Rear Coupler Stem	9600-up
F129	Alloy Steel	3.50	Coupler Disc 15" DIA.	9600-up
F130	Steel	.20	Spring Anchor	9600-up
F131	Spring Steel	.25	Skid Spring	9600-up
F133	Steel	.30	Disc Stopper	9600-up
F19	Cast Iron	2.75	Draw Bar Cap	501-up
F20A	Cast Iron	2.00	Abutment	501-up
F21	Malleable	9.50	Flow Head	501-up
F26	Cast Iron	.30	Control Lever Knob	501-up
F37	Malleable	.30	Trigger	501-up
A39	Malleable	.80	Quadrant 2 1/8" Beam, 9/8" Hole	501-855
F39	Malleable	.80	Quadrant 2 1/8" Beam, 3/4" Hole	856-1199
F39A	Malleable	.80	Quadrant, 2 1/8" Beam, 3/4" Hole	1200-5500
F39B	Malleable	.80	Quadrant, 2 1/8" Beam, 3/4" Hole	6501-up
F41	Malleable	.55	Pawl	501-up
F45	Cast Iron	.35	Screw Washer	501-up
F50	Cast Iron	.60	Spring Screw	501-up
F53	Cast Iron	1.20	Hub	501-9600
F67	Malleable	.80	Hub Cap	501-9600
F70	Malleable	2.00	Pawl Lever	501-up
F73	Cast Iron	.35	Wheel Bracket	501-5500
F84	Cast Iron	.55	Balance Spring Plug	501-up
F90A	Malleable	2.20	Standing Jointer Palm	501-up
F90B	Malleable	2.20	Rocker	6501-13669
F91A	Malleable	1.50	Rocker	13670-up
F92A	Malleable	2.25	Bell Crank	6501-up
F120	Malleable	.70	Skid	6501-up
F123	Cast Iron	.50	Coupler Cap, Front	9600-up
F125	Cast Iron	.85	Coupler Fork Spacer	9600-up
F127	Cast Iron	.40	Jointer Palm	9600-up
F128	Cast Iron	.30	Hub	9600-up
F135	Malleable	.50	Hub Cone	9600-up
			Coupler Cap, Rear	9600-up

Bolts and Nuts, Plain Washers, Rivets, Set Screws, Cotter Pins, Lock Washers.

Part No.	Material	List Price	Description	Size	Used For
K2	Steel	\$.06	No. 3 Plow Bolt	3/8" x 1 1/8"	Landside—Jointers Front and Rear Mould to Stay, Rear Land to Stay, Shares to Moulds—with nut. Top of "V" Struts with nut.
K3	Alloy Steel	.30	Hex. Head Mach. Bolt	1/2" x 2"	Top Link—Jointer Arms.
K4	Steel	.21	Hex. Head Mach. Bolt	7/16" x 3/8"	Lower Frog Center Frog Top Frog, Front Base Brace Beam
K5	Steel	.15	No. 3 Plow Bolt	5/8" x 2 1/8"	Bottom Links, L. H.
K6	Steel	.15	No. 3 Plow Bolt	5/8" x 1 7/8"	
K7	Steel	.15	No. 3 Plow Bolt	5/8" x 2 3/8"	
K8	Alloy Steel	.60	Hex. Head Mach. Bolt	5/8" x 2 3/8"	
K10	Alloy Steel	.60	Hex. Head Mach. Bolt	5/8" x 2 7/8"	

Part No.	Material	List Price	Description	Size	Used For
K11	Alloy Steel	.70	Hex. Head Mach. Bolt	5/8" x 3 9/16"	Bottom Links, R. H.
K12	Alloy Steel	.75	Hex. Head Mach. Bolt	5/8" x 4 1/8"	Brace Beam and Bell Crank
K13	Steel	.30	Hex. Head Mach. Bolt	7/16" x 4 5/8"	Hub
K14	Steel	.18	Hex. Head Mach. Bolt	5/8" x 4 1/4"	Landside and Skid
K15	Steel	.75	No. 3 Plow Bolt	5/8" x 9 1/4"	Abutment
K16	Steel	.15	No. 3 Plow Bolt	5/8" x 2"	Top Rear Frog
K18	Steel	.10	Hex. Nut S.A.E.	3/4"	Crosshead Shaft
K19	Alloy Steel	.07	Hex. Nut S.A.E.	5/8"	Control Lever—Leveling Crank—Pawl Spindle—Mach. Bolt
K20	Steel	.02	Lock Washer	7/16"	Hub
K21	Steel	.02	Plain Washer	7/16"	Top Link—Jointer, Front-Mouldboard Stay, Hub
K22	Steel	.02	Plain Washer	5/8"	Leveling Crank—R. & L. Collars Skid, Bell Crank
K23	Steel	.02	Plain Washer	7/8"	Bottom Link Pin
K24	Steel	.04	Cotter Pins	5/16" x 1 1/2"	Top Link Pin, Bottom Link Pin, Pawl Spindle, Conn. Link Pin
K25	Steel	.02	Lock Washer	1/2"	Top of "V" Strut—Beams Leveling Crank, Pawl Spindle
K26	Steel	.02	Lock Washer	5/8"	Rivet (K34)
K27	Steel	.02	Cotter Pin	3/16" x 1 1/2"	Skid and Rocker Rods—Trigger
K28	Steel	.03	Cotter Pin	1/4" x 1 1/4"	Cross Head Shaft
K29	Steel	.02	Lock Washer	3/4"	Disc—Depth Plate
K30	Steel	.02	Truss Head Rivet	5/16" x 1 3/4"	Coupler Fork
K31	Steel	.02	Truss Head Rivet	3/8" x 2"	
K32	Steel	.03	Truss Head Rivet	3/8" x 2"	
K33	Steel	.10	H. S. Cup Point Set Screw	5/8" x 1 3/8"	Jointers
K34	Steel	.02	Oval Head-Rivet Drilled 1/8" for Cotter Pin	1 1/4" x 1 1/2"	Pawl
K35	Steel	.05	Cotter Pin	5/16" x 2"	Coupler Stem
K36	Steel	.15	O. H. Carriage Bolt	5/8" x 3"	Coupler Clamp, 14" Front & Rear
K38	Steel	.15	O. H. Carriage Bolt	5/8" x 3 3/8"	Coupler Clamp
K39	Steel	.20	O. H. Carriage Bolt	5/8" x 5 1/4"	Hub
K40	Steel	.02	Plain Washer	7/16"	Plow Bolt
K43	Steel	.05	Hex. Nut U.S.S.	7/16"	Mach. Bolt
K44	Steel	.05	Hex. Nut S.A.E.	7/16"	Mach. Bolt
K45	Steel	.05	Hex. Nut U.S.S.	5/8"	Plow, Machine and Carriage Bolts
K46	Steel	.05	Sq. Nut	7/8"	Carriage Bolt, No. K 37
K47	Steel	.02	Plain Washer	1 1/2"	Standing Jointer
K48	Steel	.15	No. 7 Plow Bolt	5/8" x 1 7/8"	Center Frog
K49	Steel	.15	No. 7 Plow Bolt	5/8" x 2 3/8"	Top Front Frog
K50	Steel	.15	No. 7 Plow Bolt	5/8" x 2 3/8"	Top Rear Frog also 16" Plow
K51	Steel	.15	O. H. Carriage Bolt	5/8" x 4"	Coupler Clamp, 14" Rear

Part No.	Material	List Price	Description
A100		\$2.50	Connecting Link Assembly—Connecting Link F30AX with F78 Connecting Link Ball
A101		3.00	Control Lever F35 with Knob F36
A102		4.65	Control Lever complete, includes lever with Knob A101, F38A Pawl Rod, F37 Trigger, F67 Pawl Lever, and K19 nut.

Part No.	Material	List Price	Description
A104		\$2.35	ASSEMBLIES Top Link Assembly—(2) Top Links F26A, (2) K4 Bolts, (2) K21 Washers, and (2) K44 Nuts. Draw Pin Assembly—(2) Draw Pins F22, with "S" Hook and Chain F79, and K24 Cotter Pin. Abutment Assembly, includes F20A Abutment, 2-F75 Abutment Plates, K15 Bolt and K45 Nut. 12" Plow Balance Spring Assembly—F44 Spring w/F73 Plug. Coulter Fork Assembly—includes F122 Fork, F123 Spacer, and (2) K32 Rivets. Coulter Blade Assembly—F129 Disc, F127 Hub, and (3) K31 Rivets Depth Regulator Assembly—F97B Depth Regulator and F90B Rocker 16" Plow Balance spring assembly H44 Spring w/H73 Plug. Crosshead F32B, with F98A Depth Screw Plate, K31 Rivet, F40 Oil Cup, and F66A Bushing 14" Plow Balance Spring Assembly G44 Spring w/F73 Plug. Crosshead F32B with Depth Screw Plate F98—F98A, Rivet, Oil Cup F40 and Bushing F66A.
A105		1.50	
A109		3.00	
A110		3.50	
A125		1.60	
A126		4.00	
A129		1.25	
A131		3.00	
A143		6.50	
A145		3.50	
A149		6.50	

Base Parts for 12A Plow with Two 12" General Purpose Bottoms, Formerly Known as No. 5B-F82.

Part No.	Material	List Price	Description
F8	S.C. Steel	\$9.00	Mouldboard with Bolts
F9	Steel	2.75	Saddle
F16	Steel	.40	Front Mouldboard Brace
F17	Steel	2.30	Rear Landside with Bolts
F18	Steel	1.60	Front Landside with Bolts
12A	Steel	4.50	Shares
12AC	Steel	3.25	12" S.C. Steel Share with Bolts
12AI	Chilled Steel	1.40	12" Crucible Steel Share with Bolts
12-10A	Steel	4.50	12" Chilled Share without Bolts
12-10AC	Steel	3.25	10" S.C. Steel Share with Bolts
12-10AI	Steel	1.40	10" Crucible Steel Share with Bolts
12A	Chilled Steel	1.40	10" Chilled Share without Bolts
12A		16.75	12" Front Base with Extension
12A		17.50	12" Rear Base with Extension

Base Parts for 12B Plow with Two 12" Sod Bottoms, Formerly Known as 5B-F200

Part No.	Material	List Price	Description
F205	S.C. Steel	\$9.00	Mouldboard with Bolts
F206	Steel	2.75	Saddle
F207X	Chilled Steel	1.80	Front Landside with Bolts
F208A	Steel	2.50	Rear Landside with Bolts
F209	Steel	.40	Front Mouldboard Stay
12B	Steel	4.50	Shares
12BC	Steel	3.25	12" S.C. Steel Share with Bolts
12BI	Chilled Steel	1.30	12" Crucible Steel Share with Bolts
12-10B	Steel	4.50	12" Chilled Share without Bolts
12-10BC	Steel	3.25	10" S.C. Steel Share with Bolts
12-10B1	Steel	1.30	10" Crucible Steel Share with Bolts
12B	Chilled Steel	1.30	10" Chilled Share without Bolts
12B		16.75	12" Front Base
12B		17.50	12" Rear Base

Base Parts for 12C, 12" two-bottom, 14A, 14" two-bottom, and 16A, 16" Single-bottom, General Purpose Plows.

Part No.	Material	List Price	Description
F304	S.C. Steel	\$9.50	Mouldboard for 16" Plow
F305	Steel	2.75	Saddle
F306	Steel	2.70	Rear Landside for 12" and 14" Plows
F306X	S.C. Steel	2.75	Landside for 16" Plow
F308	Steel	.40	Share and Mouldboard clip
F404	S.C. Steel	9.25	Mouldboard for 14" Plow
F407X	Chilled Steel	2.00	Front Landside for 12" and 14" Plows
F409	Steel	.40	Front Mouldboard Brace for 12" and 14" Plows
F604	S.C. Steel	9.00	Mouldboard for 12" Plow
12C	S.C. Steel	4.50	Shares
12CC	Steel	3.25	12" S.C. Steel Share with Bolts
12C1	Chilled Steel	1.40	12" Crucible Steel Share with Bolts
14A	S.C. Steel	4.75	14" S.C. Steel Share with Bolts
14AC	Steel	3.50	14" Crucible Steel Share with Bolts
14A1	Chilled Steel	1.60	14" Chilled Share without Bolts
16A	S.C. Steel	5.25	16" S.C. Steel Share with Bolts
16AC	Steel	4.00	16" Crucible Steel Share with Bolts
16A1	Chilled Steel	2.00	16" Chilled Share without Bolts
12C		16.75	Bases
12C		17.50	12" Front Base complete with Extensions
12C		17.70	12" Rear Base complete with Extensions
14A		18.75	14" Front Base complete with Extensions
14A		18.75	14" Rear Base complete with Extensions
16A		19.50	16" Base complete with Extensions

Parts Used Exclusively on 14A Plow with Two 14" General Purpose Bottoms. Formerly Known as 14"-400

Part No.	Material	List Price	Description
G1	Alloy Steel	\$16.50	Long Beam
G3	Alloy Steel	4.00	Brace Beam
G45	Cast Iron	.30	Screw Washer
G58	Steel	1.50	Leveling Crank
G120	Malleable	.70	Coulter Cap
G132	Malleable	1.60	Coulter Seat

Parts Used Exclusively on 16A Plow with One 16" General Purpose Bottom. Formerly Known as 16"-300

Part No.	Material	List Price	Description
H1	Alloy Steel	\$16.50	Long Beam
H12	Alloy Steel	6.00	Short Beam
H45	Cast Iron	.35	Screw Washer
H46	Cast Iron and Steel	.60	Spring Screw
H73	Cast Iron	.35	Balance Spring Plug
H93	Steel	1.00	Rocker Rod
H120	Malleable	.70	Coulter Cap
H126	Steel	1.50	Coulter Stem
H131	Spring Steel	.30	Skid Spring
H132	Malleable	2.00	Coulter Seat

Base Parts for 121 Plow with two 12" Chilled Bottoms

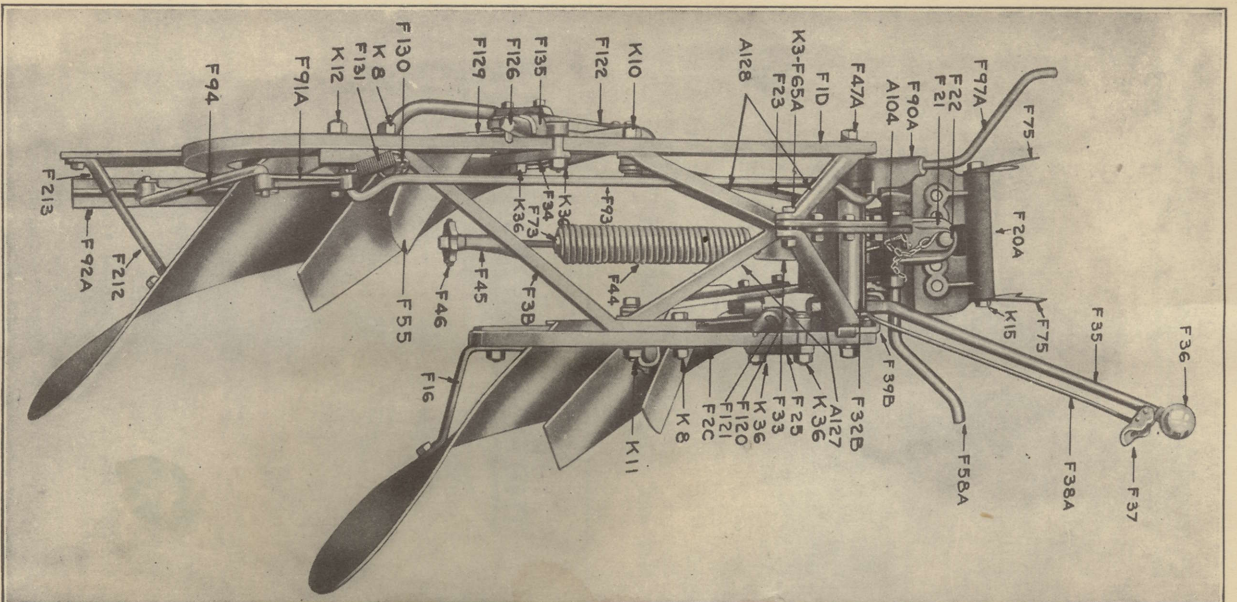
Part No.	Material	List Price	Description
F16	Steel	.40	Front Mouldboard Brace
F704	Chilled	"	Chilled Mouldboard with Bolts
F705	Malleable	"	Saddle
F706	Chilled	"	Shin
F707	Chilled	"	Front Landside with Bolts
F708	Steel	"	Rear Landside with Bolts
121	Chilled	"	121 Chilled Share without Bolts
121		"	121 Front Base Complete
121		"	121 Rear Base Complete

Base Parts for 14D Plow, with Two 14" Breaker Bottoms.
Formerly Known as 14"-500

Part No.	Material	List Price	Description
F507	Steel	2.00	Front Landside with Bolts
F508	Steel	2.70	Rear Landside with Bolts
F509	Steel	.40	Front Mouldboard Brace
F510	Steel	1.00	Mouldboard Extension
F511	Steel	9.25	Crucible Mouldboard with Bolts
F512	Steel	.40	Clip for Share and Mouldboard Saddle
F513	Steel	2.75	Rear Mouldboard Stay
F515	Steel	.50	Rear Mouldboard Adjuster
F213	Malleable	.35	Shares
14DC	Steel	3.25	14" Crucible Steel Share with Bolts
12DC	Steel	3.00	12" Crucible Steel Share with Bolts
16DC	Steel	3.75	16" Crucible Steel Share with Bolts

Parts Used On 12A, 12B, 12C, 14A and 16A Plows.

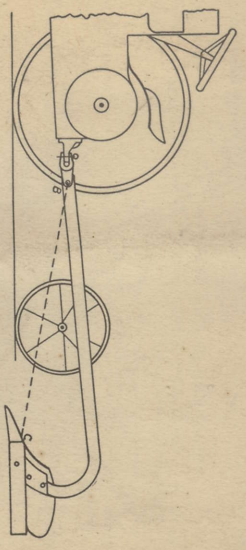
Part No.	Material	List Price	Description
F212	Steel	\$.50	Rear Mouldboard Stay
F213	Malleable	.35	Rear Mouldboard Adjuster
F10	Steel	1.00	Mouldboard Extension (For use on all plows except 12B)



X 1921

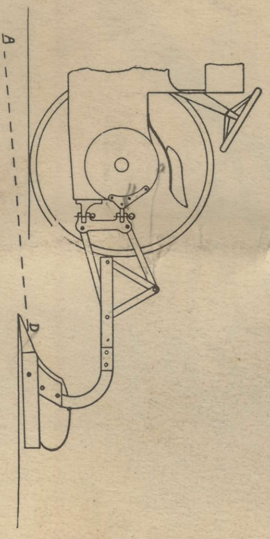
M. D. Camp, S. J. D.

THE WHEELED TYPE IMPLEMENT



The line of draft extends from "B" to "C," a rearward pull at "C" tends to swing the share point out of the ground around the center "B." A long heavy complicated heavy draft implement is necessary to counter this tendency. When the share point encounters an obstruction the tendency is to lift the front wheels of the tractor off the ground. The additional weight thus thrown on the rear wheels gives maximum traction and damages the implement.

THE FERGUSON PRINCIPLE



The Ferguson connection is simple and revolutionary in principle and the line of draft extends from "A" to "D." A rearward pull at "D" tends to pull the share point into the ground, thus eliminating the necessity for the long heavy complicated heavy draft implement. The implement is not rigid with the tractor because the link connections are pivoted and allow free movement. The line of draft keeps it in the hardest ground.