



DIRECTIONS

FOR

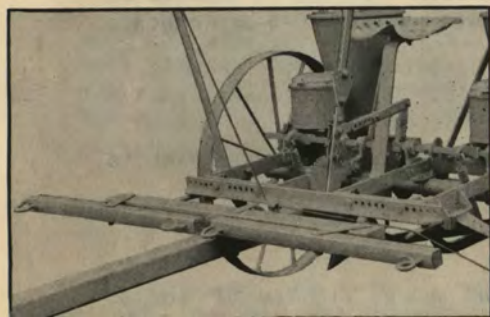
SETTING UP

AND

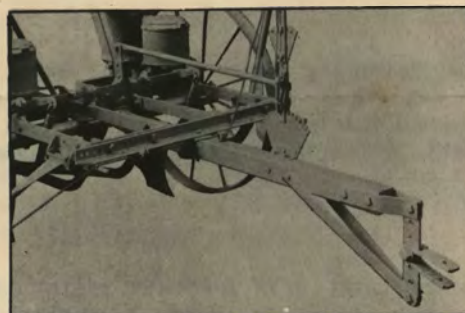
OPERATING

FARQUHAR
IRON AGE
YORK, PA.

CORN PLANTER



Horse Hitch



Tractor Hitch



For Mounting on Ford, Ford-
Ferguson or Ferguson tractors

**A. B. FARQUHAR
COMPANY**

YORK, PA.

DIRECTIONS FOR SETTING UP AND OPERATING FARQUHAR IRON AGE CORN PLANTER

CORN PLANTERS ARE SHIPPED IN PACKAGES AS FOLLOWS:-

- | | |
|------------------------------|------------------------|
| 1- FRAME | *1 - TRACTOR HITCH |
| 2- SEED HOPPERS | *1 - HORSE HITCH |
| 2- FERTILIZER HOPPERS | *1 - MOUNTING UNIT for |
| 2- GANGS (TYPE ORDERED) | FORD, FERGUSON or |
| 2- WHEELS | FORD-FERGUSON TRACTOR |
| 2- MARKER POLES (IF ORDERED) | * as ordered |

PROCEED TO SET UP MACHINE AS FOLLOWS:-

UNCRATE PACKAGES. CUT ALL WIRES AND UNPACK PARTS IN HOPPER. LAY OUT PARTS AND CHECK WITH PACKAGE LIST ABOVE.

CHANGING FRAME

THE FRAME IS ADJUSTABLE FROM 28" TO 42" ROW WIDTHS. THE FRONT ANGLE WILL INDICATE ROW SETTING. THE CLOSEST SETTING IS FOR 28" AND IS ADJUSTED OUT TO 42" ROWS.

BEFORE STARTING ASSEMBLY, DETERMINE ROW WIDTH REQUIRED AND IF OTHER THAN SET AT FACTORY, PROCEED TO CHANGE AS FOLLOWS: WITH THE FRAME ON THE FLOOR, LOOSEN "U" BOLTS AND SET SCREWS IN COLLARS ON HOIST SHAFT, REMOVE THE TWO BOLTS IN ONE OF THE FRAMES AND SLIDE FRAME OUT TO PROPER LOCATION; USING HOLES IN FRONT ANGLE AS SPACING GUIDE, BOLT FRAME TO ANGLE AND RESET COLLARS IN BEARING ON HOIST SHAFT; LEAVE "U" BOLTS LOOSE UNTIL WHICHEVER TYPE HITCH BEING USED IS ASSEMBLED AND PROCEED TO CHANGE OTHER SIDE OF FRAME.

TRACTOR HITCH

BOLT TRACTOR HITCH TO THE TOP SIDE OF BRACKET ON CROSS PIPE AND UNDER FRONT ANGLE. CHECK PIPE TO BE CERTAIN IT IS CENTRALLY LOCATED AND TIGHTEN "U" BOLTS.

HORSE HITCH

BOLT TONGUE TO BOTTOM SIDE OF BRACKET ON CROSS PIPE AND UNDER FRONT ANGLE. TIGHTEN "U" BOLTS.

TRACTOR MOUNTING

BOLT STUB POLE TO TOP SIDE OF BRACKET ON CROSS PIPE AND UNDER FRONT ANGLE AND TIGHTEN "U" BOLTS. BOLT THE MOUNTING BRACKETS THROUGH THE STUB POLE AT REAR AND THROUGH CLIPS TO FRONT ANGLE. FOR ATTACHING TO FORD, FORD-FERGUSON OR FERGUSON TRACTOR, USE THE CONVENTIONAL "V" STRUT FROM IMPLEMENTS BUILT FOR THESE TRACTORS AND CONNECT TO TRACTOR SAME AS OTHER IMPLEMENTS. (NOTE: THIS ARCH IS NOT FURNISHED BY FARQUHAR IRON AGE).

WHEELS

REMOVE COLLAR AND PIN FROM AXLE AND PUT ON WHEEL WITH SPROCKET INSIDE. CHECK CLUTCHES TO MAKE SURE PROPER WHEEL IS PUT ON RIGHT SIDE. PUSH WHEEL ON AS FAR AS POSSIBLE AND LOCK WITH COLLAR AND PIN.

GANGS

REMOVE THE BOLT AND SPACER FROM BRACKET AT FRONT OF FRAME. WITH STRAIGHT SIDE OF DRAG BAR OUT AND WITH SPACER IN DRAG BAR, BOLT TO INSIDE OF BRACKETS. LOCATE HOIST ARM ON SQUARE SHAFT SO THAT LIFT ROD LINES UP WITH CENTER HOLE IN GANG BRACKET AND CONNECTS THROUGH BRACKET WITH COTTER UNDER-SIDE.

LIFT LEVERS

ASSEMBLE LIFT LEVERS TO QUADRANT WITH PIVOT SPACERS AND CONNECT TO HOIST SHAFT WITH LINK. RAISE AND LOWER GANG AND SET THROW-OUT CAM ON HOIST SHAFT SO THAT WHEN OUT OF CLUTCH, A SPACE OF ABOUT $\frac{1}{4}$ " IS BETWEEN CLUTCH ON WHEEL AND CLUTCH SPROCKET.

CORN HOPPERS

USING THE SAME BOLTS WHICH HOLD THE HOPPER, BOLT THE CORN HOPPERS IN THEIR RESPECTIVE POSITIONS ON THE CENTER CROSS CHANNEL WITH THE FEED TOWARDS REAR OF MACHINE. BOLT THE CORN SPOUT AND TUBE TO LOWER PART OF CHANNEL. THE HOPPER CASTINGS ARE SLOTTED TO PERMIT LINING UP OF SPROCKET WITH SPROCKET ON AXLE.

FERTILIZER HOPPERS

USING THE SAME BOLTS THAT HOLD HOPPER TO SPOUT CASTING, BOLT THE FERTILIZER HOPPERS TO THE REAR CROSS CHANNEL WITH FEED TOWARDS FRONT OF MACHINE.

FASTEN END OF FERTILIZER TUBE TO SPREADER CASING ON BOOT WITH SMALL CLIP FOUND ON SPREADER. BOLT FERTILIZER HOPPER BRACES FROM HOPPER TO CENTER CROSS CHANNEL WITH $\frac{3}{8}$ " WASHER UNDER HEAD OF BOLT INSIDE THE HOPPER.

SPROCKETS & CHAIN

ASSEMBLE CHAIN AROUND SPROCKETS WITH HOOK END FORWARD AND SET CHAIN TIGHTENER AGAINST BOTTOM SIDE OF CHAIN. CHECK FOR SPROCKET ALIGNMENT WITH CLUTCH ENGAGED. HOPPER CASTINGS ARE SLOTTED TO PERMIT HOPPERS TO SHIFT FOR PROPER SPROCKET ALIGNMENT. SEE OPERATING INSTRUCTIONS FOR FURTHER INFORMATION ON SPROCKETS.

MARKER POLES

BOLT THE MARKER POLE BRACKETS TO FRONT OF FRAME WITH LONG END OF BRACKET DOWN AND WITH THE MARKER POLE TOWARDS THE REAR. THE LONG END OF THE PIVOT SHAFT EXTENDS TO FRONT OF MACHINE AND ACTS AS CABLE REST. BOLT THE EYE BOLT ON THE CABLE THROUGH THE HITCH. WITH FRAME SET FOR PROPER ROW WIDTH AND MARKER POLE SET THE CORRECT DISTANCE, CONNECT CABLE AND LIFT ROPE SO THAT WHEN ONE POLE IS LIFTED THE OTHER POLE DROPS INTO MARKING POSITION.

MAKE SURE CABLE STOPS ARE TIGHT AND IN THE RIGHT LOCATION SO THAT CABLE TAKES THE PULL OF MARKER POLES.

SEE THAT ALL BOLT NUTS AND COTTERS ARE TIGHT AND IN PLACE. GREASE ALL PLACES PROVIDED AND OIL ALL LINKS AND SLIDING PARTS TO OVERCOME FRICTION.

OPERATING INSTRUCTIONS

A 10-HOLE ROUND RING IS ASSEMBLED IN THE HOPPER BEFORE THE CORN PLANTER IS SHIPPED. PACKED IN THE HOPPER IS A 10-HOLE OBLONG, THICK RING AND A 10-HOLE OBLONG, COUNTERSUNK RING. OTHER RINGS ARE AVAILABLE THROUGH YOUR DEALER. SEE SPACING CHART FOR RINGS AND SPROCKET FOR VARIOUS SPACING COMBINATIONS.

SELECTING THE RING

SELECT SOME OF THE LARGEST KERNELS FROM YOUR SEED AND SEE IF THEY FIT THE HOLE. KERNELS SHOULD HAVE A LITTLE ROOM SO THAT THEY WILL NOT STICK IN THE HOLE. KERNEL SHOULD FIT COMPLETELY IN HOLE TO ELIMINATE ANY CRACKING OF KERNEL.

IT IS RECOMMENDED THAT IN SELECTING YOUR SEED CORN, IF POSSIBLE, TRY YOUR RING FOR PROPER GRADING. IN SELECTING NEW RING, IT IS ADVISABLE TO TRY SAMPLES OF YOUR CORN IN RING AND BE ADVISED BY YOUR DEALER. YOUR DEALER CAN HELP YOU GET THE PROPER RING AND, UNDER NORMAL CONDITIONS, REWORK RINGS TO FIT MOST ANY REQUIREMENT.

CAUTION

WHEN CHANGING RINGS MAKE SURE SMOOTH SIDE OF RING IS UP AND THAT KNOCKER CASTING IS IN PROPER POSITION.

SPROCKETS

7, 8, 9 AND 10-POINT SPROCKETS ARE FURNISHED WITH EACH UNIT. OTHERS ARE AVAILABLE FROM YOUR DEALER. SEE SPACING CHART.

SPROCKET NUMBER	NUMBER TEETH	10-HOLE RING	12-HOLE RING	20-HOLE RING
* P-84	5	9.4	8.	4.7
* P-83	6	11.3	9.7	5.1
P-85-A	7	13.3	11.	6.6
P-82	8	15.	12.5	7.5
P-66	9	17.	14.3	8.5
P-67	10	18.5	15.5	9.3
* P-68	11	20.	16.5	10.3
* P-122	12	22.5	18.5	11.3
* P-123	13	24.5	20.5	12.3
* P-124	16	30.	25.4	15
* P-397	17	32.2	27.	16

FERTILIZER

THE FERTILIZER HAS FORCED FEED AND WILL DRILL ALL KINDS OF FERTILIZER, COARSE OR FINE. THE AMOUNT OF FERTILIZER TO BE USED IS REGULATED BY AN ADJUSTABLE GATE LOCATED UNDER RIGHT HAND SIDE OF FERTILIZER HOPPER. WE ARE NOT ABLE TO GIVE EXACT AMOUNT OF FERTILIZER PER ACRE DUE TO THE VARIATION OF FERTILIZER AND ROW WIDTHS. WITH DRY FERTILIZER AND ON 30" ROWS, APPROXIMATELY 400 TO 550 LBS. PER ACRE CAN BE APPLIED. THE AMOUNT OF FERTILIZER TO BE USED IS REGULATED BY THE SPEED OF THE GEAR. THE SMALLER THE SPROCKET-THE MORE FERTILIZER APPLIED. ALL SPROCKETS ON CORN AND FERTILIZER HOPPERS WILL INTERCHANGE. THE FERTILIZER SPREADER ON THE BOOT IS NOT MADE TO APPLY FERTILIZER IN DEFINITE BANDS BUT TO APPLY FERTILIZER TO EACH SIDE OF GRAIN SO THAT A CONCENTRATE OF FERTILIZER WILL NOT BE ON KERNEL. THIS SPREADER IS ADJUSTABLE UP OR DOWN TO SUIT THE CONDITION OF GROUND. SHOULD THE FERTILIZER BE STICKY OR WET, A LITTLE SLAKED LIME MIXED WITH IT WILL DRY THE FERTILIZER AND IT WILL FLOW MUCH BETTER. CARE MUST BE TAKEN THAT FERTILIZER IS FREE OF FOREIGN MATTER.

CARE OF FERTILIZER HOPPER

THE FERTILIZER HOPPERS SHOULD BE CLEANED OUT AT LEAST TWICE A DAY. STRING OR FOREIGN MATTER WILL CAUSE POOR OPERATION OF FEED. WHEN PLANTING IS COMPLETED, HOPPERS SHOULD BE REMOVED, CLEANED AND OILED. IT IS RECOMMENDED THAT INSIDE OF HOPPER AND ALL PARTS THAT COME IN CONTACT WITH FERTILIZER BE PAINTED ONCE A YEAR WITH FARQUHAR IRON AGE FERTILIZER-RESISTANT PAINT. THIS WILL ELIMINATE RUST AND CORROSION CAUSED BY ACIDS IN FERTILIZER.

KEEP MACHINE WELL OILED AT ALL TIMES

AND

STORED IN DRY PLACE WHEN NOT IN USE.

A. B. FARQUHAR COMPANY
YORK, PENNSYLVANIA