Corn Drill
No. 919L

JOHN DEERE

OPERATORS MANUAL

Corn Drill
No. 919L

OMD29253 (01FEB53) English

OMD29253 (01FEB53)

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ENGLISH

TO THE PURCHASER

The purpose of this manual is to furnish valuable information about your new No. 919L Corn Drill. In this manual you will find instructions and helpful suggestions for operating, hitching, transporting, adjusting, lubricating, assemblying, and servicing your new drill. Also included is a complete parts list with helpful illustrations to aid in proper identification of parts if replacement becomes necessary.

Keep this manual in a convenient place for quick and easy reference. Use it as a guide whenever questions arise. You have purchased a dependable, sturdy machine, but only by proper care and operation can you expect to receive the service and long life designed and built into it.

If you need additional information, or if your corn drill requires special servicing, see your John Deere dealer—he has all the facilities required to keep your drill in A-1 condition. He will be glad to serve you.

Sometime in the future your drill may need new parts to replace worn or broken parts, or for emergency repair. If so, go to your John Deere dealer. He will see that you get high-quality, genuine John Deere parts. When ordering, be sure to give him the correct part number and description of the part desired. Such information can be obtained from the parts list section of this manual. Also provide your dealer with the model number of your drill, its type, and year purchased. This information will help him to identify the part you need.

If, after much active work, your corn drill requires attention, go to your John Deere dealer for parts or special service as soon as possible. By giving your drill proper attention during slack periods it will always be ready for use, without delays, when you need it.

Model No......

Date of Purchase.....**19**.....

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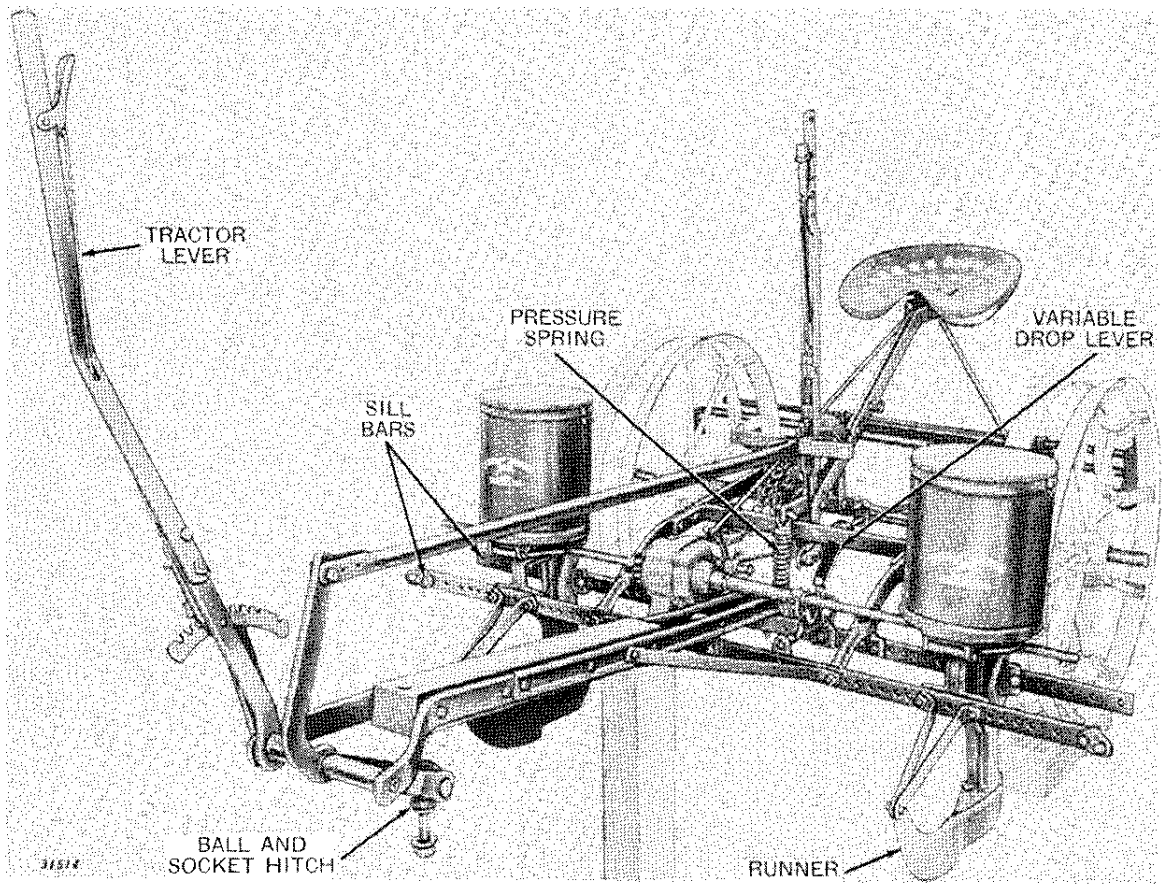

Figure 1—John Deere No. 919L Corn Planter With Horse Hitch

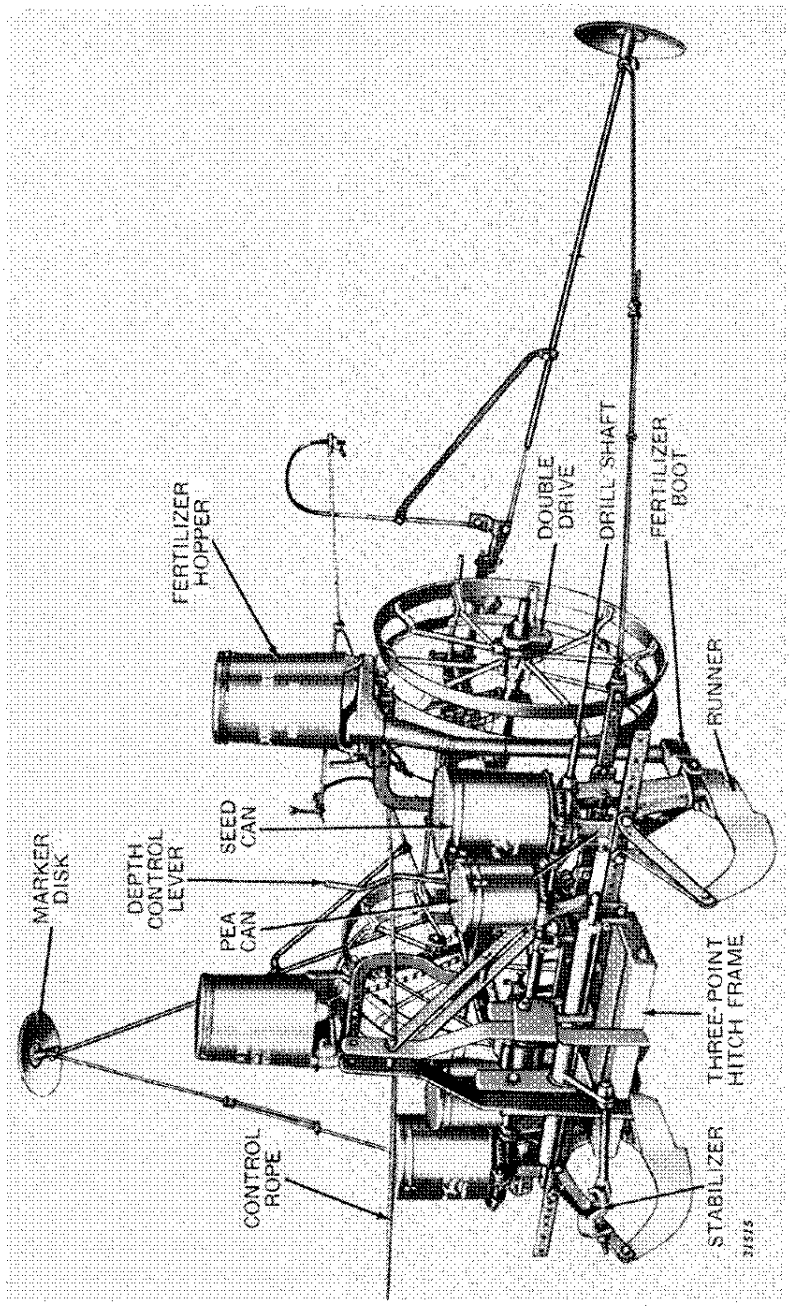

Figure 2—John Deere No. 919L Corn Planter With Pea Attachment and Fertilizer Attachment

OPERATION AND ADJUSTMENT

GENERAL.

The Model 919L Corn Drill can be operated as a horse-drawn, tractor-drawn, or tractor-mounted drill, depending on the type of hitch parts used.

It is a two-row machine and can be adjusted to drill row widths from 32 to 48 inches. Drills are shipped from the factory set for 40-inch rows, however, row-width adjustments can be made as described on page 5.

Drilling distances within the rows can be set from 3-1/2 inches to 258 inches by using combinations of sprockets and plates as described on pages 10 and 11.

CAUTION: Before operating your new corn drill fill the gear case with oil as described on page *16*.

CONTROLS.

When operated as a tractor-mounted machine the drill is raised or lowered by the hydraulic system of the tractor. Planting depth can be controlled and adjusted by the depth-control lever. See Figure 2.

When operated as a horse-drawn or tractor-drawn machine the drill is raised or lowered manually by a hand lever. See Figures 3 or 4. On horse-drawn drills foot lever, Figure 4, work with the hand lever to aid in raising or lowering the machine.

Wheel scrapers are also operated by a foot lever, Figure 4.

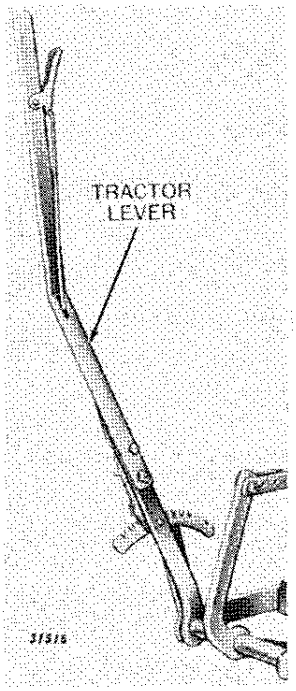

Figure 3

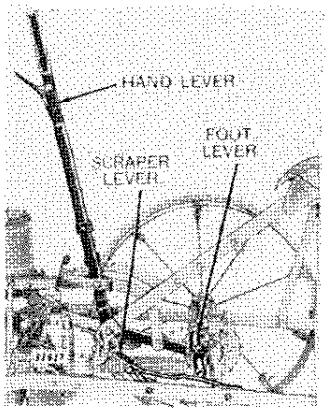

Figure 4

A variable drop lever, mounted on the rear sill bar, Figure 2, controls the number of kernels dropped into each hill. The operator can set the drill to drop two, three, or four kernels per hill by moving this variable drop lever manually.

CHANGING ROW WIDTH.

The Model 919L Drill can be adjusted to plant in row widths from 32 to 48 inches wide.

To change this row width adjustment remove the four bolts, Figure 5, securing each runner to the frame and reattach the runners to the frame using bolt holes in the frame that will provide the desired row width.

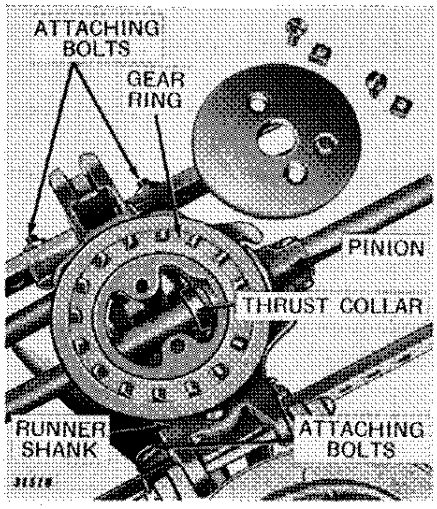

Figure 5

When runners are moved in or out to change row width, it is necessary to move the thrust collar on drill shaft, which is under the left seed-box, Figure 5. To move this thrust collar, the runner shank gear ring and pinion must be moved away from collar, or toward the outer end of drill front frame. This permits the moving of thrust collar so thrust collar pin may be taken out of drill shaft. Care must be taken when making this change not to move the drill shaft. If drill shaft is moved, trouble will be encountered when attempting to shift variable drop lever.

Next, move collar to its new position, install thrust collar pin and move runner shank, gear ring and pinion over until drill shaft bearing is against thrust collar. Adjust runner shank on right side to its proper position. There is no thrust collar on this side of drill.

Whenever the row width of the drill is changed readjust markers to conform with the new row width used. See pages 8 and 9 for detailed instructions for adjusting markers.

When row width has been set, move the wheels on the axle so they will run directly behind openers, providing a press wheel action.

OPERATING WITH THREE-POINT HITCH TRACTOR.

Preparing Tractor. The No. 919L Corn Drill can be used integrally with the John Deere Model 40 Tractor or similar three-point hitch tractors. To attach the drill to the Model 40 tractor, and acquire best performance, make the following adjustments as they are described in your tractor operator's manual.

Adjust dual cylinders of touch-o-matic control for parallel lift.

Lock out the load-and depth control mechanism.

Connect the upper link in the upper holes of the load control yoke.

Connect the lift links to the inner holes in the lift arms.

Adjust the left-hand lift link to a length of 22 inches. Then, using the leveling crank, adjust the right-hand lift link until the drill is level laterally.

Note: When the drill is disconnected from the tractor always reset the left-hand lift link to a length of 19-13/32 inches.

Rear Tire Inflation With Wheel Weights. The following table shows rear tire inflation pressures, and wheel weights, recommended for the Model 40 Tractor when used with the No. 919L Corn Drill.

Tire Size	Ply	Rear Tire Inflation Pressures With Indicated Number of Added Wheel Weights			
		No Weight	One Weight	Two Weights	Three Weights
9–34	4	16 lbs.	16 lbs.	.....	....
10–34	4	14 lbs.	14 lbs.	14 lbs.	....

Front Tire Inflation. Inflate front tires of the Model 40 Tractor to the pressures shown below for all tire sizes, with or without added weighting.

Four-ply tires.....28 Pounds

Six-ply tires.....36 Pounds

Front End Weights. When the Model 40 Tractor is equipped with a single front wheel, or dual front wheels, the recommended weights to use in favorable conditions is two 80-pound side weights. In adverse conditions more weight should be added by attaching a 140-pound front end weight.

OPERATING WITH INTEGRAL TOOL CARRIER.

General. The No. 919L Corn Drill can be operated with either the No. 2000 or No. 2100 Tool Carrier.

When drill and carrier are removed from the tractor, reinstall the master tractor powershaft shield.

Rear Tire Inflation. The following table shows the recommended rear tire inflation pressure when the tractor is used with No. 919L Corn Drill on No. 2000 or No. 2100 Tool Carriers. Before attaching the drill and tool carrier to the tractor, remove all cast or liquid ballast in excess of the permissible additional weight in the last column of the following chart.

Tractor	Rear Tire Size	Ply Rating	Inflation Pressure Without Added Wheel Weights	Maximum Permissible Additional Weight Per Wheel at Maximum Inflation Pressure
B	10–38	4	14	0 . . 14 lb.
BN, BW	9–42	6	18	0 . . 18 lb.
A	11–38	6	14	350 . . 16 lb.
AN, AW	11–42	6	12	450 . . 16 lb.
G, GN, GW	12–38	6	12	550 . . 20 lb.
50	10–38	4	16	0 . . 16 lb.
50	11–38	4	12	0 . . 12 lb.
50	11–38	6	12	0 . . 12 lb.
50	9–42	6	20	0 . . 20 lb.
50	11–42	6	12	0 . . 12 lb.
60	11–38	6	14	550 . . 20 lb.
60	12–38	6	12	550 . . 16 lb.
60	9–42	6	24	300 . . 28 lb.
60	11–42	6	14	550 . . 20 lb.

Front Tire Inflation. Maintain tractor front tire inflation at pressures recommended in your tractor operator's manual. No change will be required when the tractor is used with the tool carrier and drill.

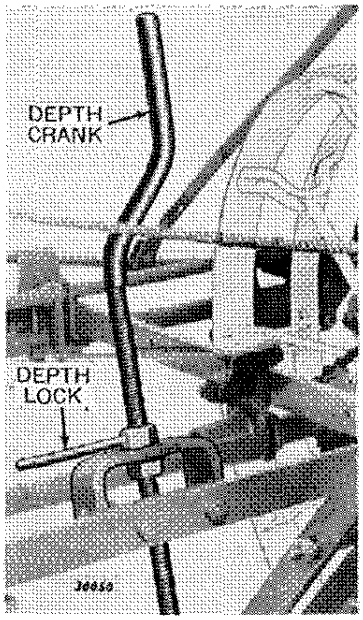

Figure 6

Depth Adjustment. In order to regulate the planting depth loosen the depth lock, Figure 6, and adjust the depth crank to the desired planting depth and tighten the depth lock.

ADJUSTING MARKERS.

Double Disk Marker. This marker, Figure 7, is used only when the drill is operated with a three-point hitch. It can be adjusted from three feet to three feet ten inches regularly. If it is desired to use this marker in an adjustment under three feet use the special short pipe Y4697BD and arm Y4782BD.

As illustrated in Figure 7 the marker is adjusted to three feet six inches. If another row spacing is desired remove the cotter pin "A," loosen set screw "B" and bolt "C," and slide the pipe over the desired hole. Reinstall cotter pin "A," Figure 7.

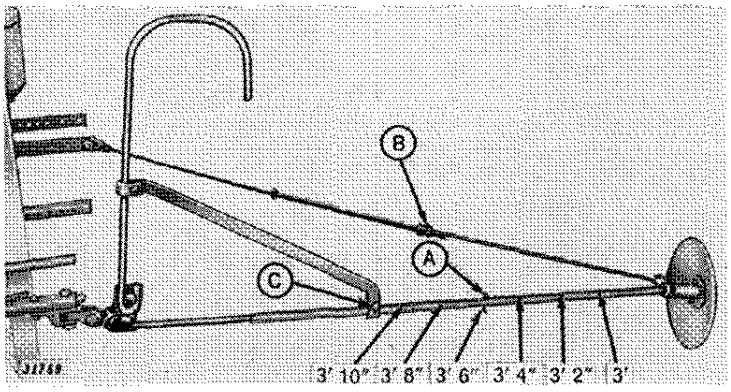

Figure 7

Automatic Marker. This marker is adjustable from two feet four inches to four feet as shown in Figure 8. The set screw "A," Figure 8 must *always go through* a hole in the marker pipe and seat into the countersunk end of the marker rod at "B," Figure 8.

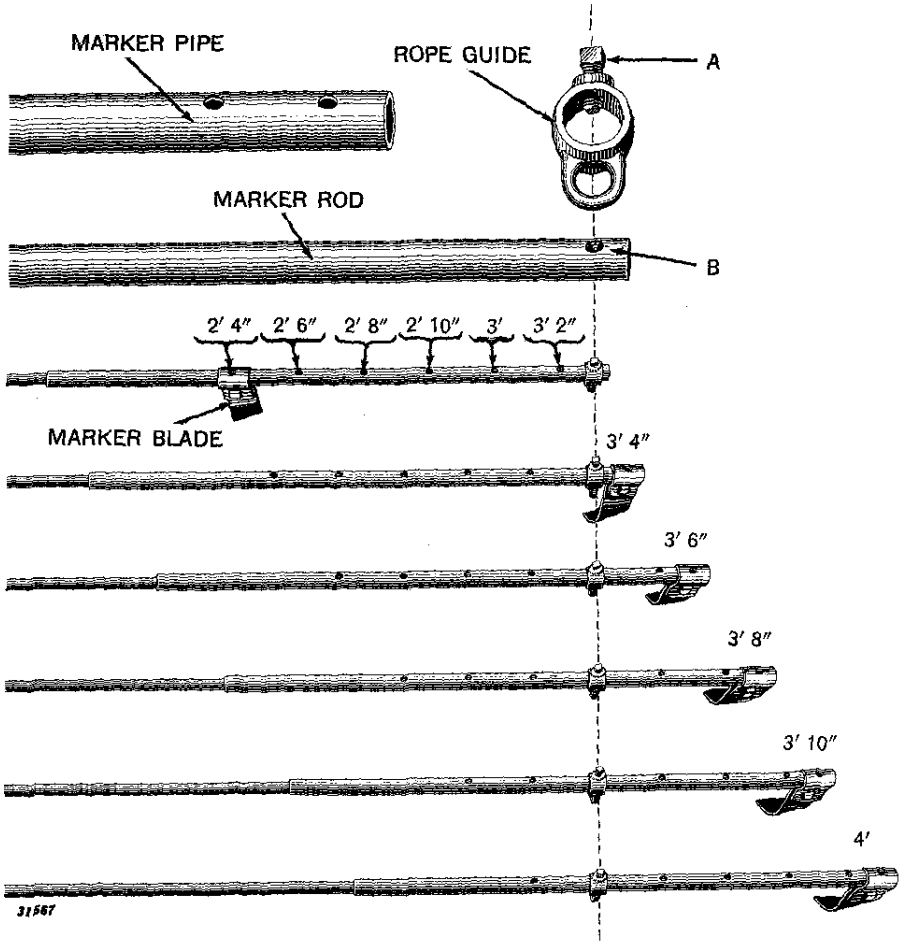

Figure 8

Figure 8 illustrates the setting used to obtain all adjustments. Note that to adjust the marker to lengths more than three feet two inches the blade *is attached over the end of the pipe* and the pipe is moved outward two inches for each new setting.

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