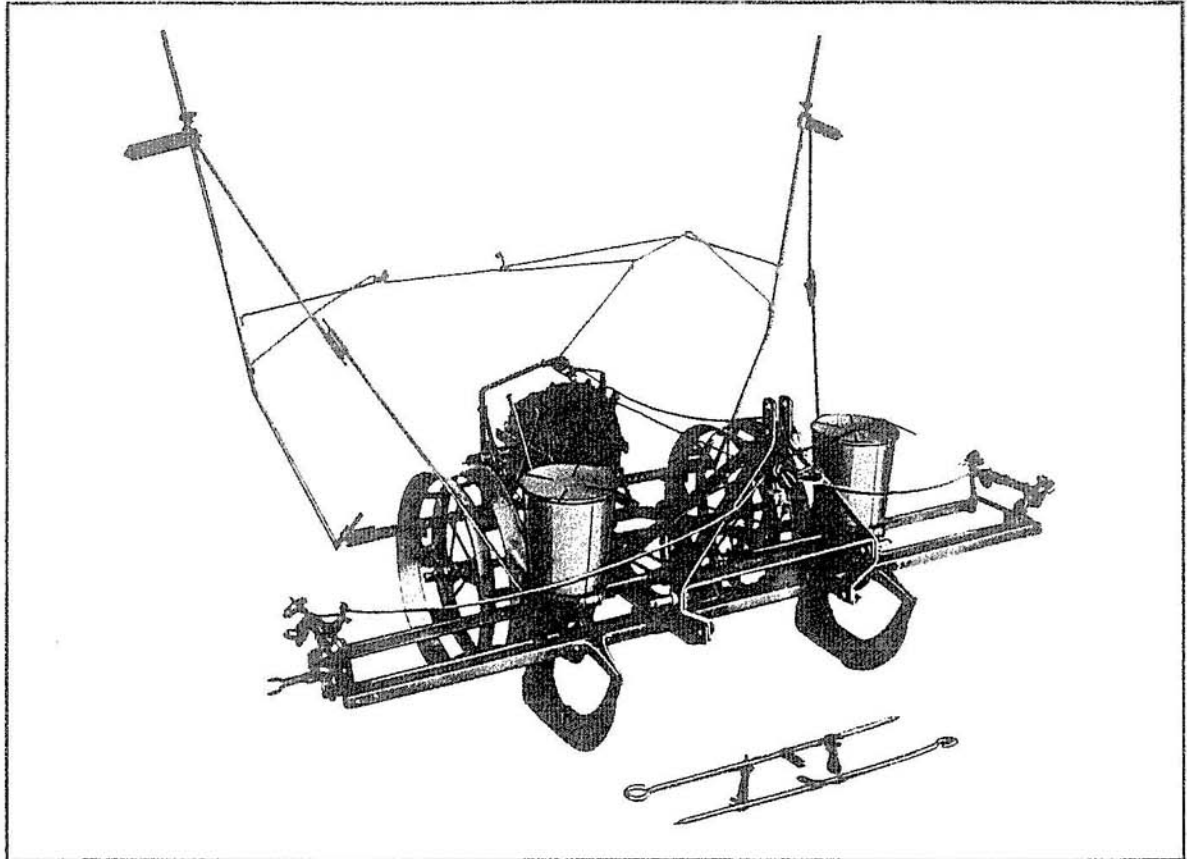




DEARBORN
CHECK ROW CORN PLANTER
MODEL 12-87



ASSEMBLY AND OPERATING INSTRUCTIONS



Dearborn Check Row Corn Planter

The Dearborn Check Row Corn Planter is designed and manufactured to perform three separate planter operations. Either check row, hill drop or drill planting can efficiently be performed with this planter at modern tractor speeds. It is attached to the Ford Tractor with the conventional three-point linkage. By means of the Ford Tractor Hydraulic Touch Control, planting depth is easily maintained, and the implement is raised or lowered, which automatically stops or starts planting. Being close coupled to the tractor, the planter is well suited for contour planting when either the drill or hill drop mechanism is used.

The implement can be equipped with any one of 77 different edge drop seed plates to meet the various sizes and types of seeds, including many varieties of beans, peas, and sorghum. Reversible base plates, smooth on one side and grooved on the other, make

it possible to use a single set of plates with a variety of seeds. Combination sprockets on the axle drive shaft and seed shaft provide six different seed plate speeds. In check row planting the number of seeds per hill can easily be changed without stopping the planting operation, by means of a lever controlled by the operator from the tractor seat.

Planter row widths can be adjusted from 28 inches to 44 inches which provides a wide selection for maximum crop yields. It is not necessary to change the tractor wheel spacing when using this planter. Large hoppers, with a capacity of $\frac{1}{3}$ bushel are sufficient to plant up to 5 acres before refilling is necessary.

The planter frame is sturdily constructed of high carbon steel to assure many years of service. The bearings on the seed shaft and wheel axle are replaceable grey iron bearings designed for long life.

DEARBORN MOTORS CORPORATION
BIRMINGHAM, MICHIGAN

CHECK ROW PLANTER

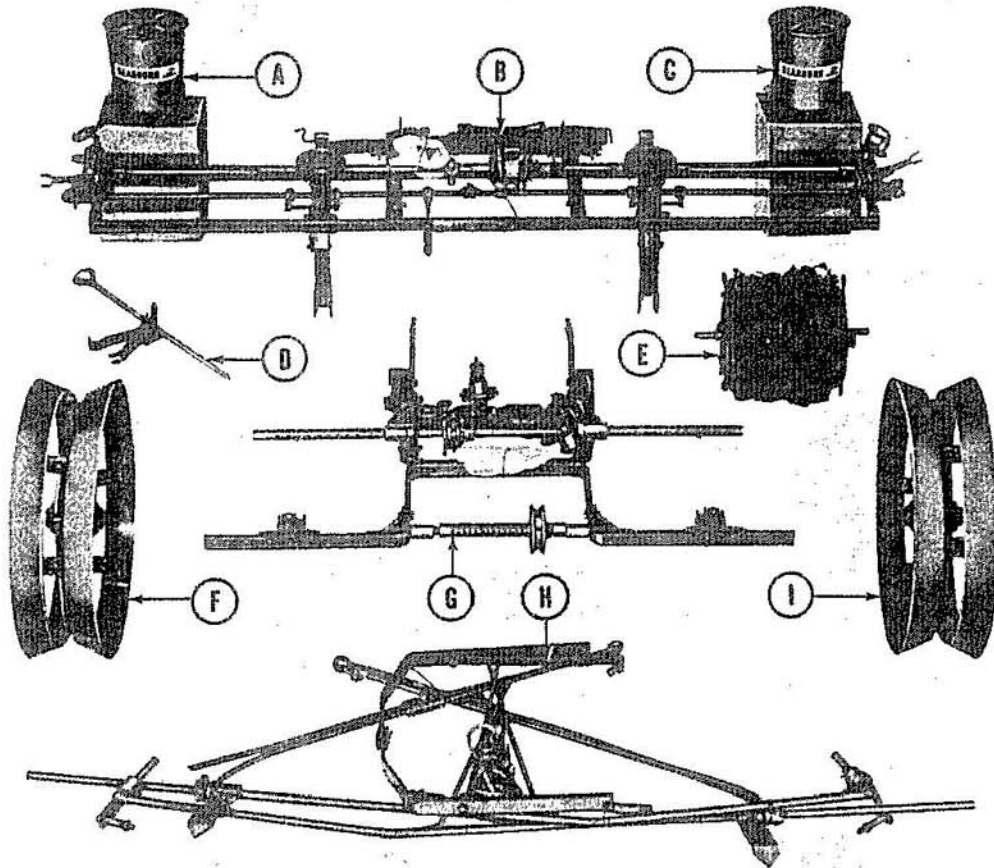


Figure 1
Check Row Corn Planter Bundled for Shipment

SHIPPING INFORMATION

The Dearborn Check Row Corn Planter is shipped in nine bundles as shown in Figure 1. Check the shipment against the following list and Figure 1, to make sure all parts are received.

Item	Description	DMC Bundle No.
A	Hopper and Plate Assembly.....	125709
B	Front Frame with "A" Frame, Drive Chain and Bag of Miscellaneous Parts wired together	128046
C	Hopper and Plate Assembly.....	125709
D	Two Check Wire Stake Assemblies.....	125744
E	Reel Assembly and 80 Rods of Check Wire	125752
F	One Wheel Assembly.....	128021
G	Rear Frame and Scraper Frame with Chain Idler, Reel Drive Bracket Assembly, Spring Assemblies, and Bag of Parts wired together	128047
H	Two Marker Rod Assemblies, Arch Frame and Two Pull Ropes wired together	12-93
I	One Wheel Assembly.....	128021

ASSEMBLY PROCEDURE

NOTE: The assembly of the Dearborn Check Row Corn Planter is the responsibility of the Ford Tractor and Dearborn Farm Equipment dealer. The planter should be delivered completely assembled. The following instructions are provided in case of need.

1. Lay out the planter bundles, cut the shipping wires and remove the paint from all bearings and threaded surfaces.
2. Attach the "A" Frame to the planter front frame as follows:
 - a. Position the struts (2) and (6), Figure 2, on the front frame and secure loosely with the bolts, lockwashers and nuts provided.
 - b. Attach the struts (3) and (5), Figure 2, to the front frame as shown. Do not tighten these struts securely to the frame at this time.
 - c. Place the cross-member (10), Figure 2, between the struts (2) and (6) and insert the link pins (1) and (8). Install the short braces (7), Figure 2, on each side of the planter frame. Secure the link pins with the lockwashers and nuts provided.

CHECK ROW PLANTER

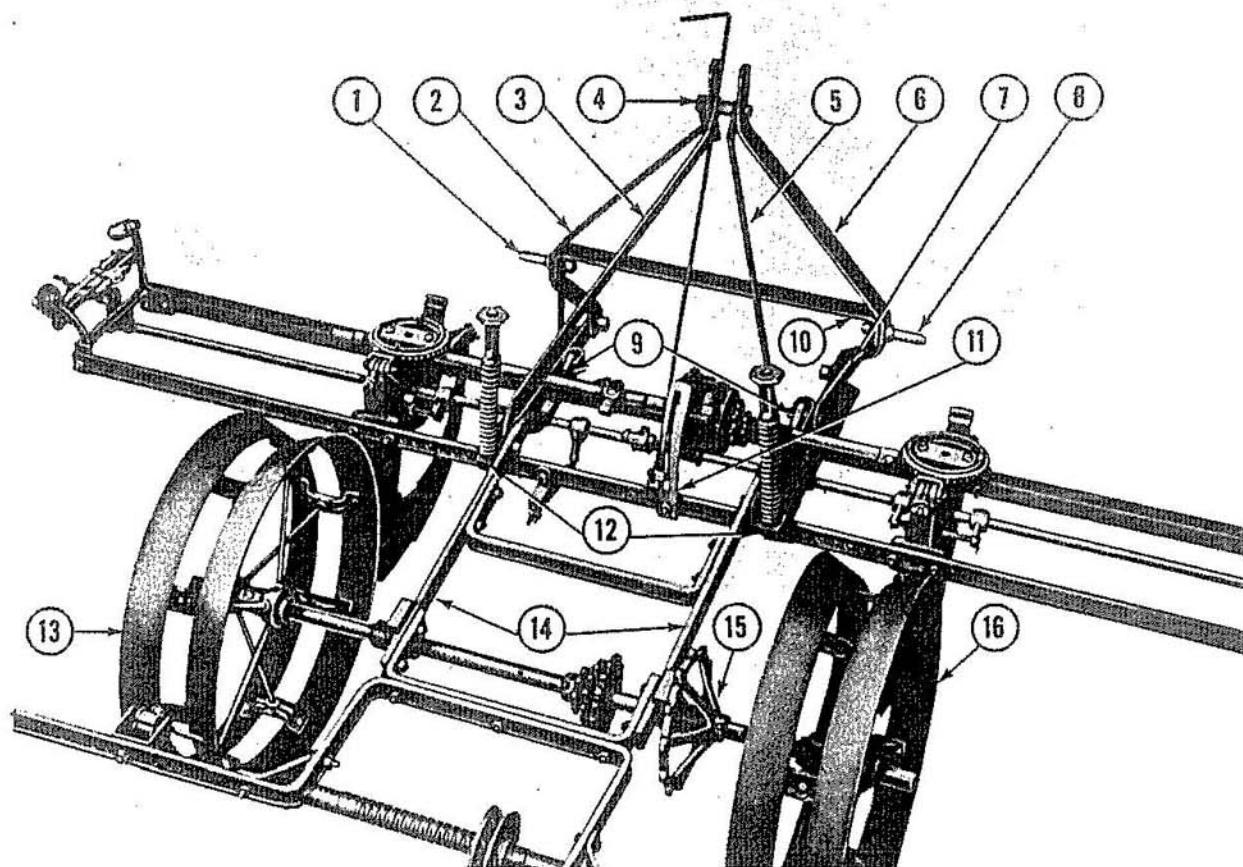


Figure 2

Planter Frame Assembled and Wheels Attached

- d. Pull the "A" Frame struts together and insert the bushing and bolt (4), Figure 2. Position the seed selector rod bracket over the bolt as shown and secure with the lockwasher and nut provided. Tighten all members of the "A" Frame securely at this time.
3. Position the reel drive sprocket (15), Figure 2, on the axle as shown and secure with the cotter pin provided. Attach the wheels (13) and (16).
4. Attach the rear frame (14), Figure 2, to the pivot brackets (9) on the front frame with the bolts, bushings, lockwashers and nuts provided. Secure the braces (7), Figure 2, as shown.
5. Attach the two mounting brackets (12), Figure 2, to the front frame with the bolts, lockwashers and nuts provided. It may be necessary to remove or loosen the spring assemblies at this time to facilitate assembly.
6. Attach the notched seed selector guide (11), Figure 2, to the front frame as shown. Position the selector arm through the bracket on the "A" frame and attach it to the notched seed selector guide as shown.
7. Remove the diagonal braces, nut and lockwasher from each end of the long bolt (8), Figure 3. Slide the bolt to the left and position the right hand reel support (3) and the right side of the marker pulley arch (5) on the bolt as shown. Slide the long bolt to the right and position the left hand reel support (7) and the left side of the marker pulley arch on the long bolt. Center the bolt and secure both ends with the lockwashers and nuts provided.
8. Replace the diagonal braces and secure the forward end of the reel supports (3) and (7), Figure 3, to the scraper frame as shown.
9. Attach the forward end of each marker arch brace (4) and (6), Figure 3, to the front holes of the scraper frame as shown with the bolts, lockwashers and nuts provided.
10. Attach the chain idler bracket (2), Figure 3, to the rear frame cross member (1) with the bolt, lockwasher and nut provided.
11. Position the reel (3), Figure 4, between the reel brackets so that the wire unwinds from the top of the reel. Insert the reel shaft (10) in the reel so

CHECK ROW PLANTER

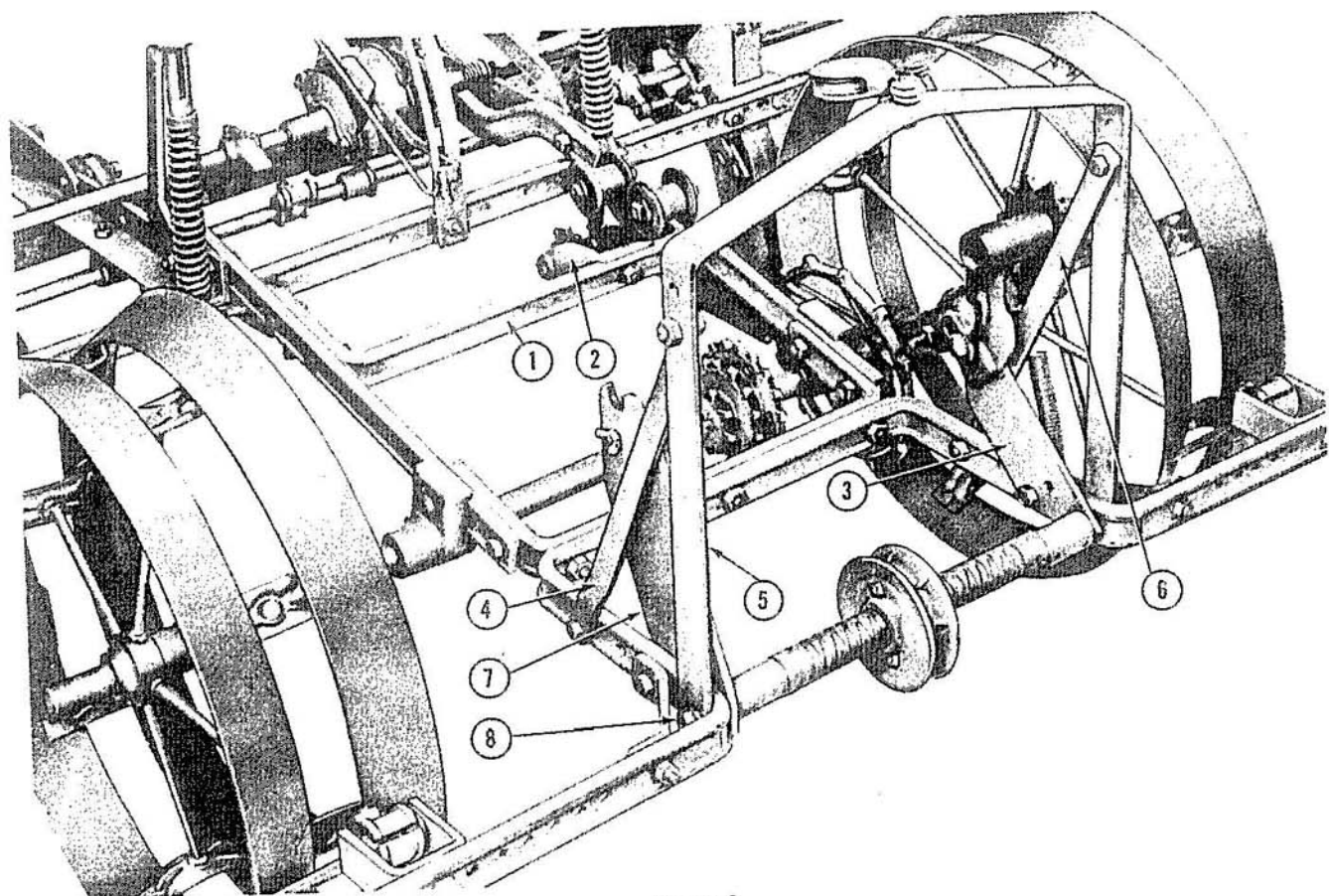


Figure 3
Chain Idler and Reel Mounting Bracket Attached

- that the square end fits in the sprocket housing (2) and the left end is in the slot on the left reel bracket. Push the reel shaft (10) as far to the right as possible so that the collar (6) is inside of the reel bracket. Secure each side of the reel (3), to the reel shaft (10) with the pins provided.
12. Attach the reel drive chain (5), Figure 4, between the sprockets (1) and (4) and position the idler under the lower strand of the chain as shown. Position the chain on the sprockets so that the open end of the links run forward over the sprockets.
 13. Attach the planter drive chain (7), Figure 4, between the desired drive sprocket (8) on the wheel axle (9) and the desired driven sprocket (13) on the seed shaft:
 - a. Place the chain so that the open end of the links runs forward over the top of the sprockets. Run the lower strand of the chain (7) over the sprocket idler (11), Figure 4, and under the frame cross member as shown.
 - b. Remove the extra chain links as necessary to give the chain proper length and tension. Link the free ends together and place the top strand over the roller idler (12), Figure 4. Save any extra chain links.
 - c. Align the drive sprocket (8), Figure 4, with the idler assembly and the driven sprocket (13). Secure the sprocket to the axle (9) with the cotter pin provided.
 14. Place a block of wood, large enough to raise the planter wheels off the ground, under each end of the scraper frame. Turn the wheels to be sure the chains, wheel axle and seed shaft operate freely.
 15. Attach a seed hopper (4), Figure 5, and the reversible base plate (6) to the planter boot bracket with the hinge pin (7) and the cotter pin provided.
- NOTE:** Install the base plate with the flat side up when the thickness of the corn being planted is narrow, or with the grooved side up when the corn being planted is wide. (See illustration cast on plate.) With the grooved side down the effective depth of the seed plate cells is increased.
16. Attach the other seed hopper as outlined in the above step.
 17. Place the desired seed plate (1), Figure 5, on the bottom of the seed hopper (4), so that the num-

CHECK ROW PLANTER

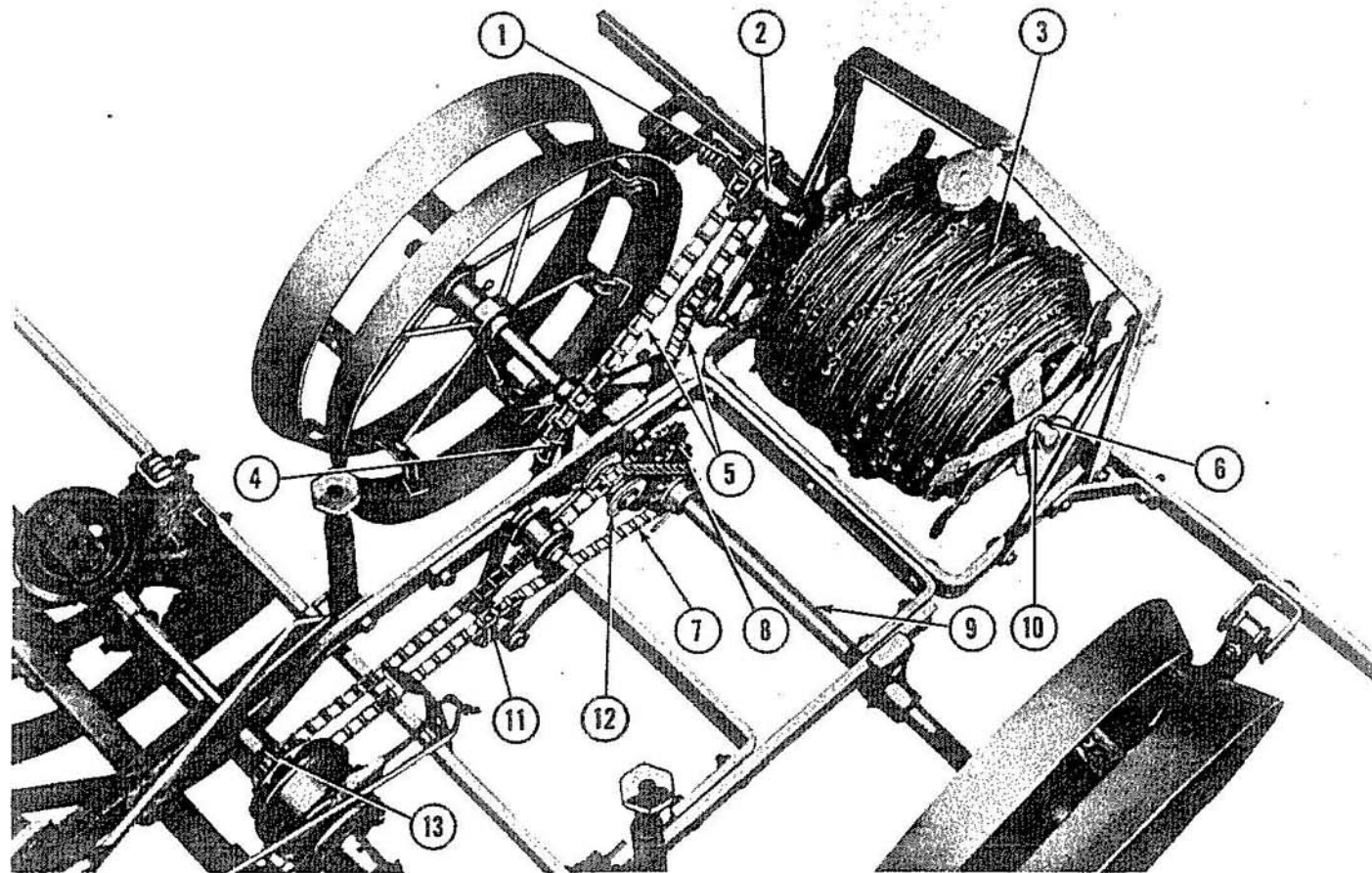


Figure 4
Reel and Drive Chain Attached

bered side of the plate will be down when the hopper is in an upright position. NOTE: Filler plate GK399A, DMC #126097 must be used with thin seed plates. See Page 16.

18. Engage the notches on the inside of the seed plate (1), Figure 5, over the driving lugs on the seed hopper bottom plate (2), and raise the base plate (6) to hold it in place.
 - a. Secure the seed plate (1), Figure 5, and the base plate (6) to the hopper bottom with the latch (3).
 - b. Set the seed hopper upright and secure with the hook bolt and wing nut (5), Figure 5.
19. Attach a marker rod (11), Figure 6, to each outer end of the scraper frame with the two bolts (12), spacers, lockwashers and nuts provided. Attach each marker pull rod (5), to the rear cross member of the front frame with the retainer strap (9), bolt, lockwasher and nut as shown.
20. Attach the planter to the tractor with the conventional three-point hook-up and secure with the linch pins provided. Place the tractor top link so that it is in the top hole of the three hole

rocker and adjust the length until the planter is level.

21. Tie the rope (7), Figure 6, between the rope anchors, (6) and (10). Tie a second piece of rope, (2), Figure 6, to the exact center of the rope (7). Run the loose end of the rope (2) through the pulley on the marker arch, forward thru the pulley which is hung on the "A" frame bushing and to the drawbar clevis pin, located under the tractor as shown. The rope (2) should have enough slack to allow the marker to operate properly when the planter is at working depth. Tie a third piece of rope to the rope (2) at point (3) and run the loose end to the tractor where it may be tied within easy reach of the operator.
22. With the planter in planting position, hook the pulley assembly (1), Figure 6, over the tractor top link behind the center bolt as shown. Loop the exact center of a fourth piece of rope around the tractor clevis pin by removing the pin and replacing after the loop is in place. Run the loose ends through the double pulley (1) and tie them to the check head latches (4) and (8), Figure 6. This rope should be tied as short as possible with-

CHECK ROW PLANTER

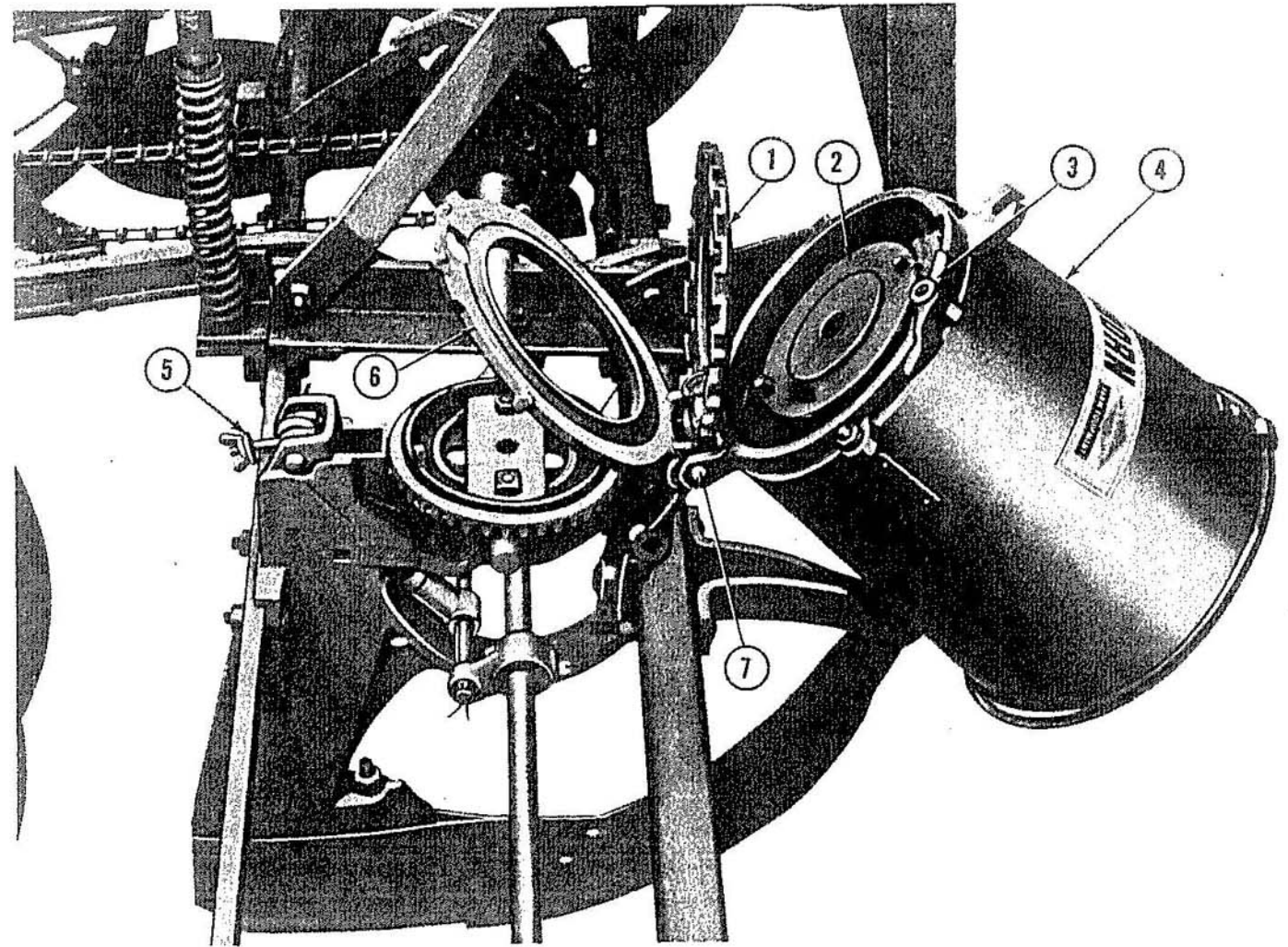


Figure 5
Seed Plate Installation

out releasing the check head latches when the planter is in working position. The tension on these ropes will automatically release the check head latches and check wire when the planter is raised.

OPERATION

The Dearborn Check Row Planter is attached to the Ford Tractor with the conventional three-point hook-up. Attach the tractor top link to the top hole in the three-hole rocker assembly and adjust the link until the planter frame is level, when in planting position. In the operation of the planter at various row widths, it is unnecessary to change the tractor wheel tread. The tractor hydraulic system should be operated in Constant Draft Control. The tractor speed should be controlled in accordance with the seed concentration. The heavier the planting rate the slower the planter should be operated. Excessive speeds do not allow sufficient time for the planter mechanism to operate properly. A heavy planting of soy beans cannot be made at the

same speed as a regular run of corn. The desired planting depth, is obtained by raising or lowering the planter with the Ford Tractor Hydraulic Touch Control lever.

The following sections of this manual present information on lubrication and adjustments of the planter. With an understanding of this information, the planter is easily and efficiently operated.

LUBRICATION

The planter should be properly lubricated after assembly and at the end of each day of operation thereafter. There are two lubrication fittings on the Dearborn Check Row Corn Planter, one of which is located on each axle bearing (2), Figure 7. Lubricate these bearings with a good grade of pressure gun grease. Fill the oil hole (7), Figure 7, at each end of the seed shaft. Fill the two oil holes on each side of the clutch assembly (6), Figure 7, and also the one on the inside of the clutch. Oil the chain idler shaft and the reel

CHECK ROW PLANTER

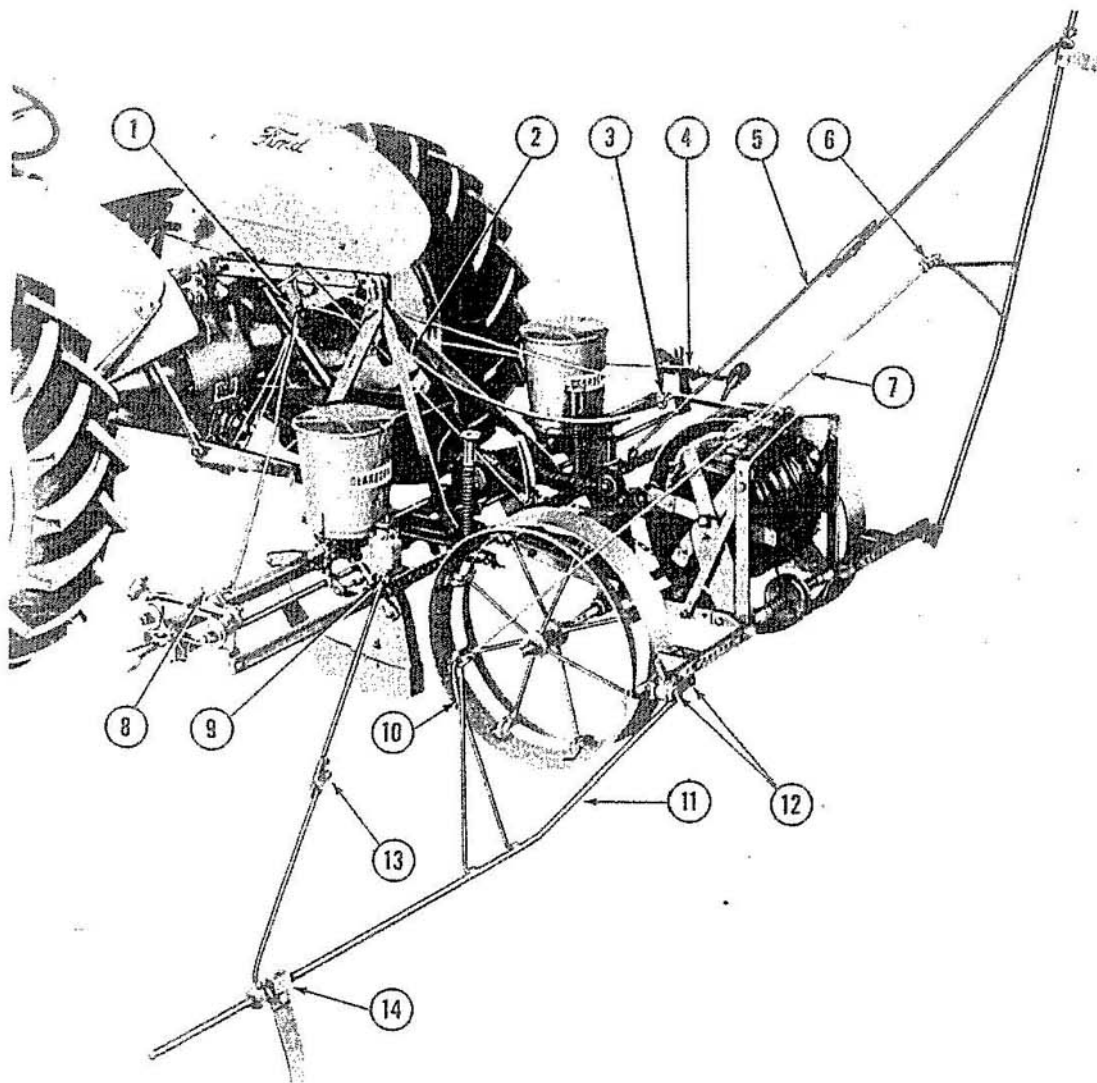


Figure 6
Hook Markers Attached

drive sprocket (1). CAUTION: Do not oil the valves in the seed boots, or the seed hopper mechanism.

ADJUSTMENTS

The Dearborn Check Row Planter is designed so that adjustments are easily made. The following adjustments should be made to assure efficient operation.

Tension Springs: Tension on the planter press wheels can be set as desired by adjusting the hand wheels (4), Figure 7. For ordinary planting, the hand wheels should be turned down approximately three-fourths of their length.

Wheel Scrapers: Adjust the wheel scrapers so that they point down and are as close as possible to the wheels without touching.

Pinion Adjustment: The following adjustment should be made if, after changing the row width of the

planter, the pinions (3) and (5), Figure 7, are not in proper mesh with the ring gears.

- a. Loosen the set screws in the seed shaft pinions (3) and (5), Figure 7, and slide them back from the ring gears.
- b. Reposition the pinion gears (3) and (5), Figure 7, so that they are in proper mesh with the ring gears, and so that the marked tooth (9) on each pinion is properly timed with one of the four marks (8) on the ring gears.

The set screws in these pinions must be in contact with the flat section on the seed shaft.

Chain Tension. Add or remove the necessary links from the drive chain to obtain proper drive chain tension. Be sure that the chain idlers are properly set

CHECK ROW PLANTER

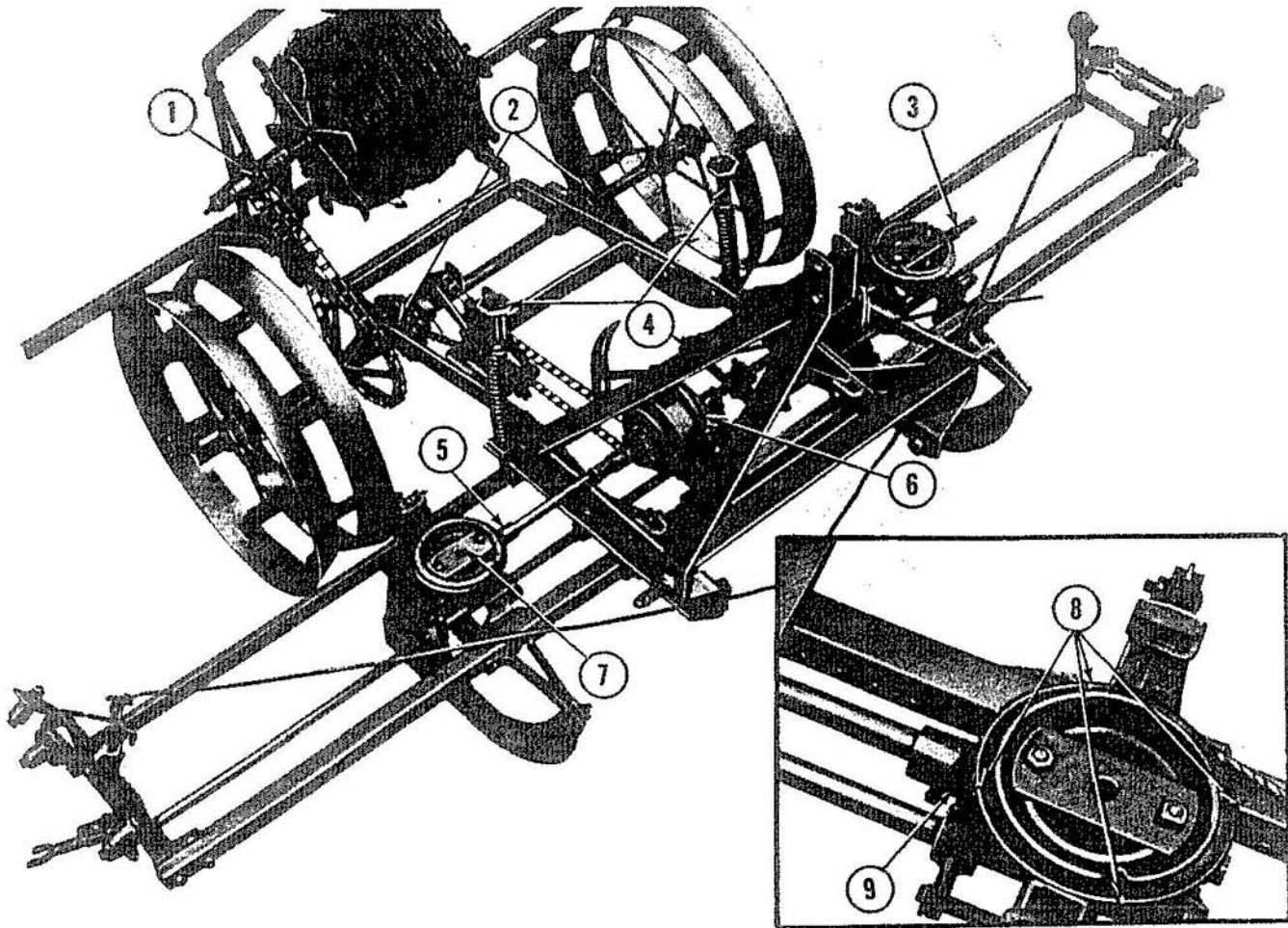


Figure 7
Lubrication and Adjustments

before changing the length of the chains. Save all chain links which are removed.

Seed Plates: Seed plates may be changed without removing the seed from the seed hoppers as follows:

- Remove the seed hopper from the planter and turn it upside down.
- Release the latch (3), Figure 5, and change seed plates.
- Lock the new plate and base plate to the hopper with the latch (3), Figure 5.
- Set the hopper in place and secure with the hook bolt and wing nut (5), Figure 5.

Check Wire Reel: To use the check wire, position a stake at the starting end of the field along the edge, attach the check wire and be sure that the reel is mounted so that the wire will unwind from the top of the reel. The clutch on the right reel bracket should be tight enough to keep the wire tight when it is being released. Remove the reel assembly from the planter and line the check wire up for the rows to be planted. Set the second stake directly behind the center of the tractor. Pull the check wire tight enough

to compress the stake spring approximately $\frac{3}{4}$ inch. Remove the reel drive chain when planting. As the check wire is moved from row to row, caution should be used to avoid kinking the wire. An effort should be made to always put the same amount of tension on the wire when resetting it. This is necessary to obtain a good check.

To rewind the wire, straddle the check wire with the tractor and planter. Place the check wire around and under the level wind pulley and attach the wire to the reel. Take up any excess slack in the check wire by rotating the reel by hand. Replace the reel drive chain. Drive the tractor forward, straddling the wire, at a moderate speed until the check wire is rewound.

Seed Drop Selector: To obtain the desired number of kernels or seeds per hill perform the following adjustment. From the tractor seat, position the arm (1), Figure 8, in a notch on the quadrant (2). When the arm (1) is in the bottom notch on the quadrant (2), two seeds per hill will be planted. Three seeds per hill will be planted when the arm (1), Figure 8, is in the middle notch, and four seeds per hill will be planted when the arm is in the top position as shown.

CHECK ROW PLANTER

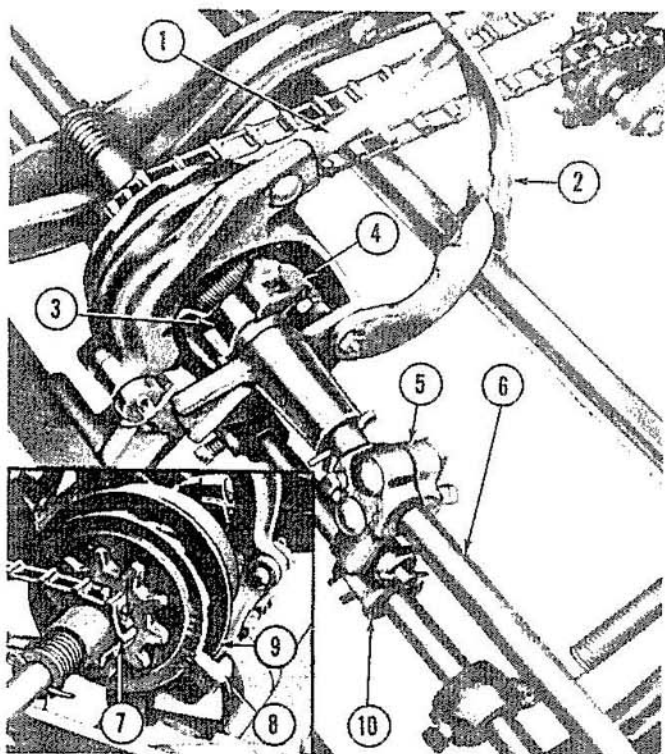


Figure 8
Cam and Clutch Adjustments

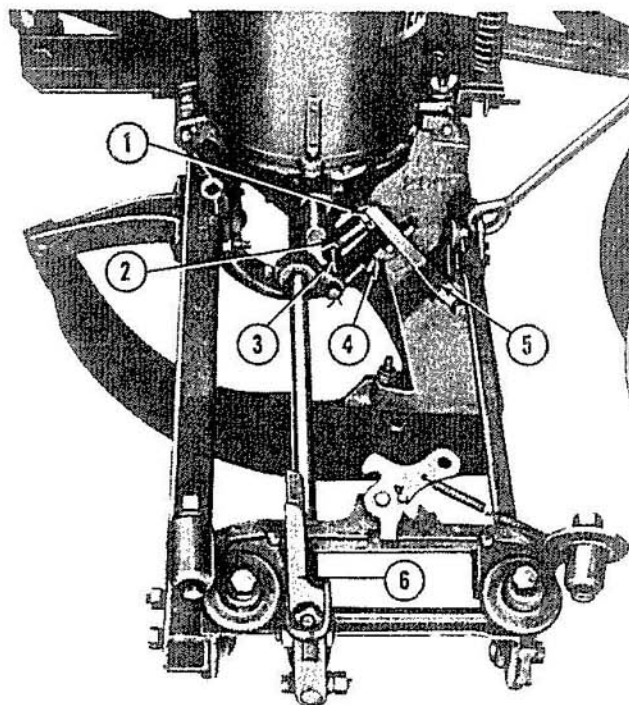


Figure 9
Planting Adjustments

The seed selector is used in check row planting only. For hill drop planting the lever (1), Figure 8, must be set in the top position on the quadrant.

Seed Boot Valves: The seed boot valves are checked and adjusted for proper timing as follows:

- Tilt the seed hoppers forward. Hold the check fork (6), Figure 9, to the extreme rear so that the valves are open.
- If the valves do not open fully loosen the nut (1), Figure 9. Remove the shaft (3) and turn the trunnions (2) in or out until both valves are set the same and are fully open when either check fork is held to the rear.

CHECK ROW PLANTING

When preparing the planter for check row planting set the valve adjusting lever (5), Figure 9, on each seed boot for check planting as shown. Place the planter drive chain on the 6-tooth sprocket (7), Figure 8, on the seed shaft and on the 14-tooth sprocket on the axle shaft. The other sprocket combinations are used for drill planting. The proper drop for a good cross check is approximately $1\frac{1}{2}$ inches behind the button on the check wire. This is determined by carefully digging the soil away from over the seed and measuring the drop compared to the checkwire button location. If the hill is too far behind the button the tractor top link should be lengthened. If the hill is too far ahead of the button, the top link should be

shortened. Constant tractor speed must be maintained during check row planting. For example, if the planter is adjusted for a good cross check at 3 m.p.h. this speed should be maintained.

DRILL PLANTING

When preparing the planter for drill planting set the lever (5), Figure 9, on each seed boot in the notch (4) marked "Drill" and be sure that the seed selector (1), Figure 8, on the clutch is set in the top notch of the quadrant. Refer to the Drill Chart on Page 22, and the Edge Drop Planter Chart, Page 18, for the correct sprocket combination and the desired seed plate.

HILL DROP PLANTING

When preparing the planter for hill drop planting the following adjustments are made:

- Set the valve lever (5), Figure 9, on each seed boot as for check planting as shown.
- Set the seed selector (1), Figure 8, in the top notch of the quadrant (2).
- Loosen the bolts and set screws holding the cams (5) and (10), Figure 8.
- Rotate the clutch dog (8), Figure 8, by hand until the lower face of the dog lines up with the forward edge of the notch in the face of the clutch housing (9).

CHECK ROW PLANTER

- e. Rotate the seed shaft (6), Figure 8, until the inner clutch pawl (4) engages with any one face of the ratchet (3).
- f. After the foregoing adjustments are made, set and secure the cams (5) and (10), Figure 8, as shown.

To check this adjustment, lift the planter and turn the planter wheels by hand. The check forks should operate automatically and the clutch dog (8), Figure 8, should not drop into the rest position at any time.

CAUTION: The seed selector lever (1), Figure 8, must always be kept in the top notch of the quadrant (2) when hill dropping. If, for any reason it contacts the inner clutch shaft, the mechanism will fall out of time and planting will stop. The clutch can be retimed by rotating the clutch dog to the position shown at (8), Figure 8, and then turning the seed shaft (6) until the cams contact each other.

Refer to the Hill Drop Chart on page 23 and to the Edge Drop Planter Plate chart on Page 18 to obtain the desired distance between the hills when hill drop planting and for the proper selection of seed plates.

ATTACHMENTS

The following attachments for the Dearborn Check Row Corn Planter are sold separately by your Ford Tractor and Dearborn Farm Equipment dealer.

EXTENSION HOPPER ATTACHMENT MODEL 12-67

1. Loosen the two bolts (3), Figure 10, on each of the three clamps (2), install the extension as shown, and tighten the clamp bolts (3), securely.
2. Remove the seed hopper cover (4), Figure 10, hinge and spring lock (1) from the top of the hopper and attach them to the top of the extension with the bolts, washers and nuts provided.

DISC MARKER ATTACHMENT MODEL 12-92

The Disc Marker Attachment is available for use in trashy fields or where a more vivid mark is required. This attachment is installed on the planter as outlined on page 3 which covers the installation of the hook markers. Hook markers can be converted to disc markers by the replacement of Hook Markers, Part No. 128018 and Marker Rods, Part No. 128015 with Disc Marker & Hub Assembly, Part No. 125907, Marker Rods, Part No. 127988, and Disc Marker Shaft, Part No. 127986.

WHEEL BAND ATTACHMENT MODEL 12-94

The wheel Band Attachment (1), Figure 11, is used when it is necessary to obtain more buoyancy in soft ground or to pack the soil more firmly over the seed.

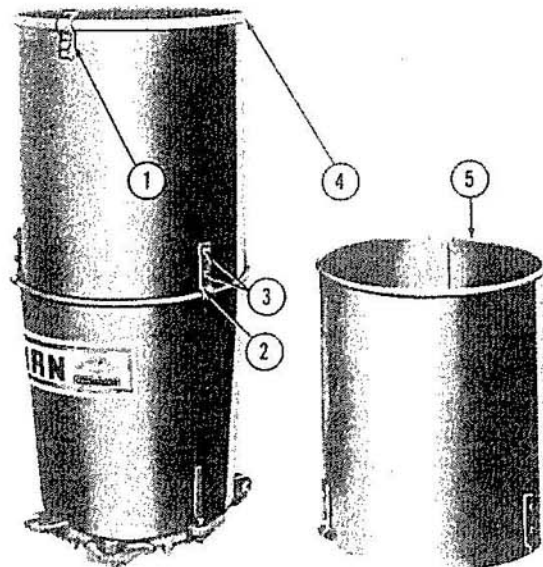


Figure 10
Extension Hopper Attachment

Position and secure the wheel band on the outside of each wheel with the bolt (4), tension plate, lockwasher and nut as shown.

DISC OPENERS MODEL 12-101

The Disc Opener Attachment is installed on the planter as follows:

- a. Remove the nuts and lockwashers from the bolts (2), Figure 11. Remove a disc opener assembly (7) from one side of the assembled openers. Attach the mounting plate (3) and the attached opener assembly as shown. Replace the washers and nuts on the bolts (2).
- b. Attach the removed opener assembly (7), Figure 11, to the mounting plate with the bolts, lockwashers, flat washers and nuts provided. The holes in the mounting plate are slotted to facilitate positioning of the disc opener assemblies. They should be positioned so that they are as close as possible to the runner assembly (5) without striking it.

Lubrication: There is a lubrication fitting located on the inner hub of each disc opener assembly. Lubricate these bearings with a good grade of pressure gun grease daily.

CHECK ROW PLANTER

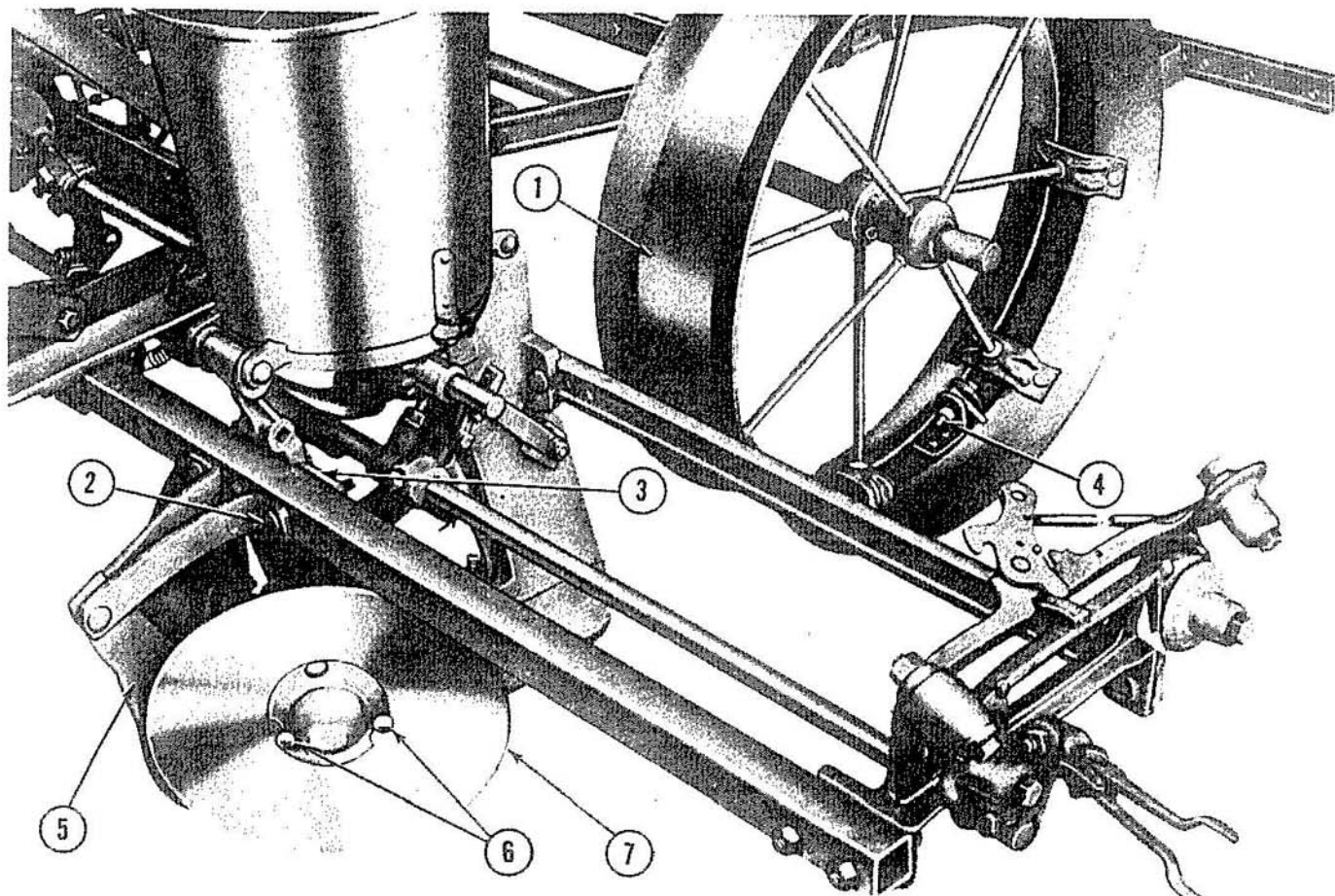


Figure 11
Wheel Bands and Disc Openers Attached

Adjustment: If it becomes necessary to disturb the nut on the back of the disc spindle, the bearings will require adjustment. To adjust, loosen the two bolts (6), Figure 11, and completely remove the third bolt. Then remove the hub cap. Withdraw the cotter pin from the castellated adjusting nut and adjust the nut to permit the disc to turn freely but without play between the disc and the disc hub. Replace the cotter pin, hub cap, bolt, and tighten the nuts.

FERTILIZER ATTACHMENT MODEL 12-90

1. Place the fertilizer drive sprocket (8), Figure 12, on the planter axle shaft as follows:
 - a. Raise the rear of the planter so that both wheels are free.
 - b. Remove the drive chain from the chain idler.
 - c. Remove the cotter pins from the left wheel, gear cluster, reel drive sprocket and axle at both bearings.
 - d. Remove the planter left wheel.
 - e. Hold the right wheel and slide the axle shaft outward until the axle is out of the left bearing.
 - f. Place the sprocket (8), Figure 12, on the axle shaft so that the cotter pin hole is towards the right side of the planter.
 - g. Reposition the axle shaft through the left axle bearing, replace the left wheel and install the cotter pins in the left wheel, gear cluster, fertilizer drive gear, reel drive sprocket and in the axle shaft at both bearings.
2. Place the fertilizer frame (6), Figure 12, on the planter frame as shown. Position the fertilizer drive chain (7) around the upper and lower sprockets (2) and (8) and connect the chain links. The open end of the chain links should be outside and run forward over the top of the sprocket. Secure the fertilizer frame to each side of the planter frame with the bolts (5), flat-washers, lockwashers and nuts provided.
3. Attach a fertilizer boot (11), Figure 12, to the rear of each runner assembly with a U-bolt (10).

CHECK ROW PLANTER

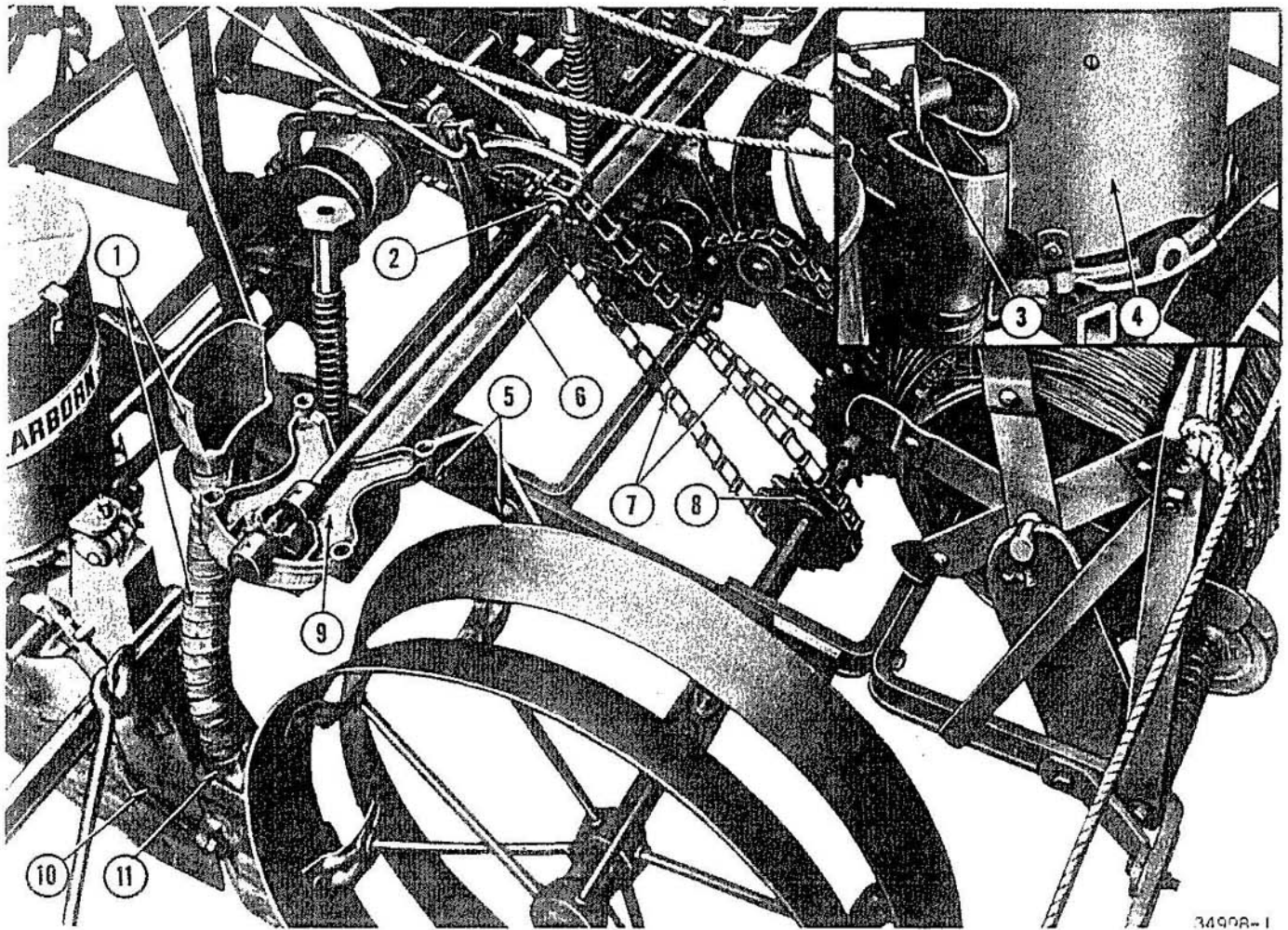


Figure 12
Fertilizer Attachment

4. Attach the fertilizer spout and ribbon tube assembly (1), Figure 12, to the fertilizer frame as shown. Place a ribbon tube in the fertilizer boot (11).
5. Place a fertilizer hopper (4), Figure 12, on each mounting base (9) and secure with the four wing nuts provided. The feed adjusting lever (3) should face the front of the planter as shown.
6. Replace the planter drive chain on the chain idler.
7. Position a trip arm assembly (4), Figure 13, on the check shaft (8) inside of each runner assembly as shown.
8. Attach a link (6), Figure 13, to each fertilizer valve arm (7). The link with the bend in it should be placed on the right side of the planter.

NOTE: If the planter is set to plant rows from 28 to 34 inches, it will be necessary to position the trip arm assembly (4), Figure 13, on the outside of each runner assembly. The fertilizer boot valve arms will also be assembled on the outside of the fertilizer boots.

9. Attach the slotted end of each link (1), see insert Figure 13, to the trip arm (3) with the cotter pins provided.
10. Attach the springs (5), Figure 13, to the underside of the trip arms as shown at (2), see insert.

The following adjustments should be made to assure efficient operation of the fertilizer attachment.

Trip Arms: Adjust each trip arm on the check shaft so that the fertilizer valves are fully open when the check forks are at the end of the rearward stroke. To make the adjustment, hold the check fork (6), Figure 9, in the extreme rear position. Loosen each fertilizer trip arm (4), Figure 13, and position them on the shaft

CHECK ROW PLANTER

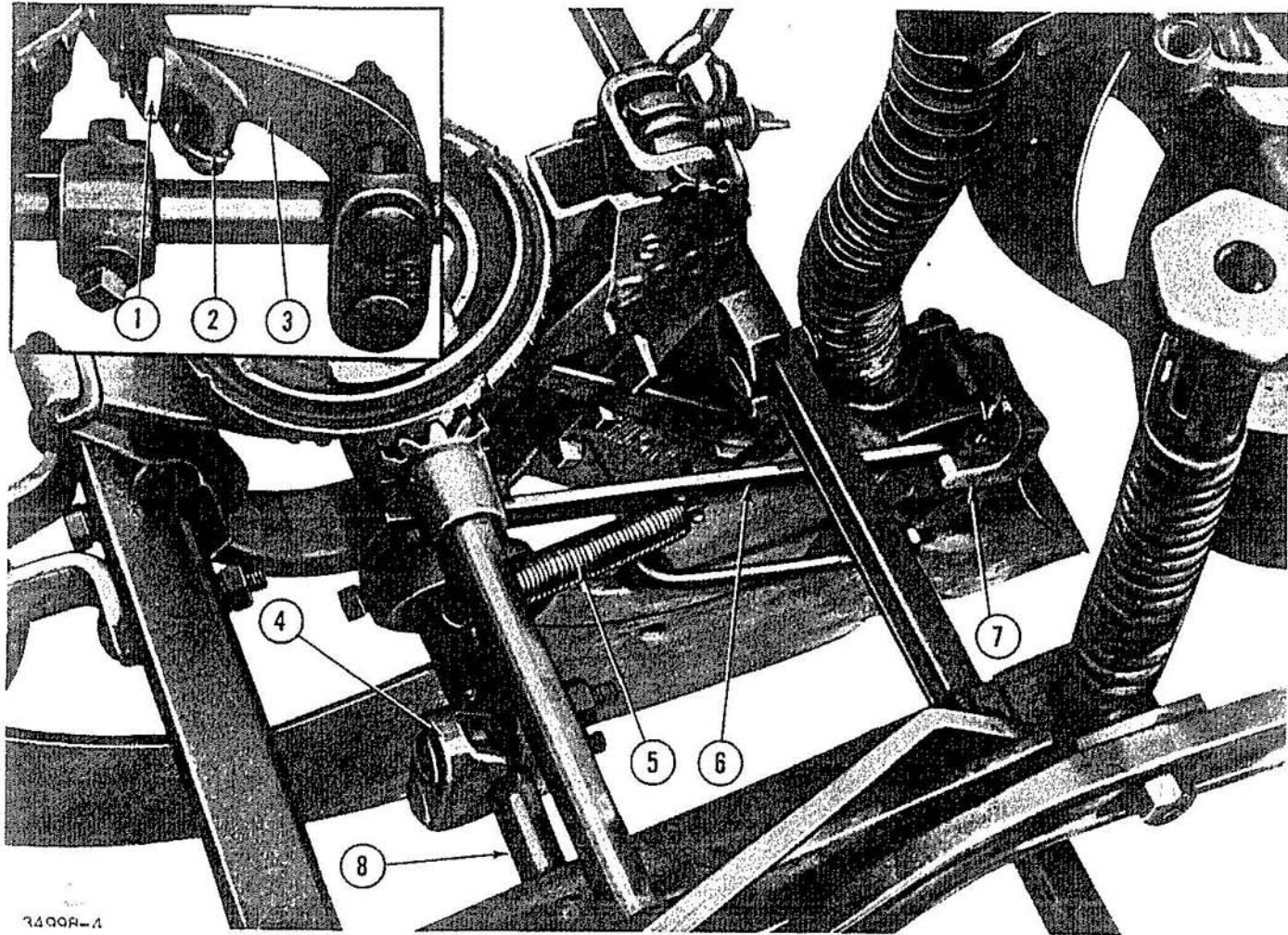


Figure 13
Fertilizer Attachment Trip Arms

(8), so that the fertilizer boot gate is open. When this position is obtained, tighten the trip arms on the check shaft securely.

Drive Chain: To obtain proper tension on the fertilizer drive chain (7), Figure 12, move the fertilizer frame forward on the planter frame. It may be necessary to remove some links from the chain, and if so, the extra links should be saved.

CAUTION: Remove all unused fertilizer from the hoppers and fertilizer mechanism at the end of each days use. This will prevent clogging and possible breakage of the fertilizer mechanism.

Lubrication: Place a few drops of oil in the oil holes on the fertilizer shaft bearings upon assembly and daily thereafter.

When the planter is being used for drill planting operation, the fertilizer attachment will automatically be locked in the open position.

EDGE DROP SEED PLATE EQUIPMENT

A large variety of seed plates for planting various kinds and sizes of seed are available. The charts on pages 18 and 19 give a complete list of these plates as well as the necessary information concerning each plate. Use these charts in selecting the right plates for the seed to be planted.

IMPORTANT: When ordering plates be sure to state the complete plate number.

As a further aid in the selection of the correct seed plates, actual size photographs of the various plate cells are illustrated on the following pages.

By comparing the kind and average size of the seed to be planted against the actual size of the cells, as illustrated, the correct plate can more easily be determined.

As an example of properly selecting plates, Fig. A shows a good fit, Fig. B a poor fit, and Fig. C an impossible fit.

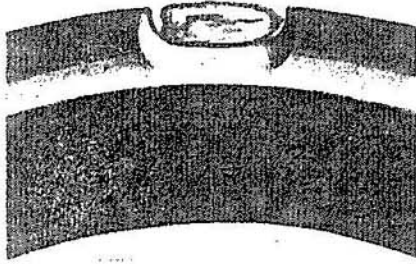


Fig. A—Good Fit

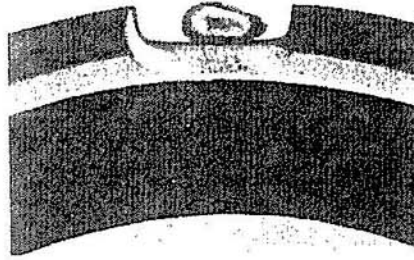


Fig. B—Poor Fit

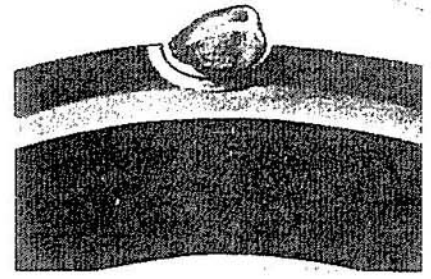


Fig. C—Impossible Fit

It is very important also that the kernels be properly graded before attempting to select correct plates for accurate planting. Fig. D illustrates well graded seed and Fig. E shows poorly graded seed.

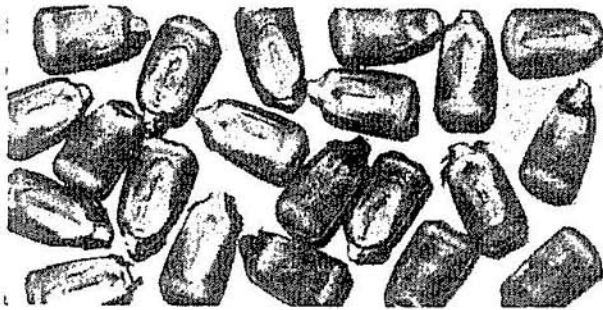
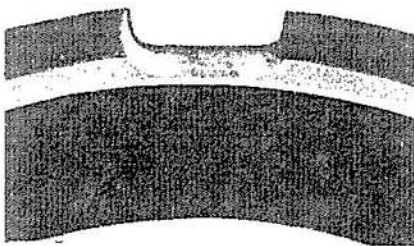
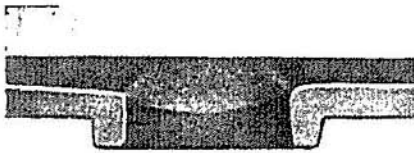


Fig. D—Well Graded Kernels

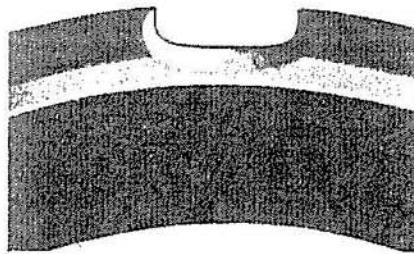
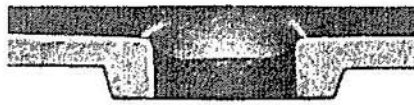


Fig. E—Poorly Graded Kernels

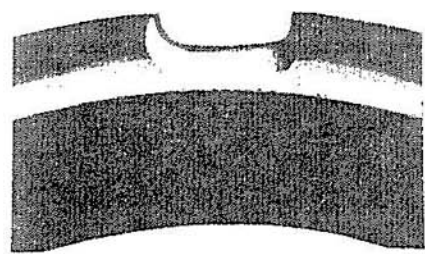
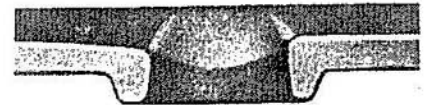
Always use both the chart and the illustration in selecting and ordering seed plates. Under each illustration is a list of plates having cells of the size and construction pictured.



Picture 1



Picture 2

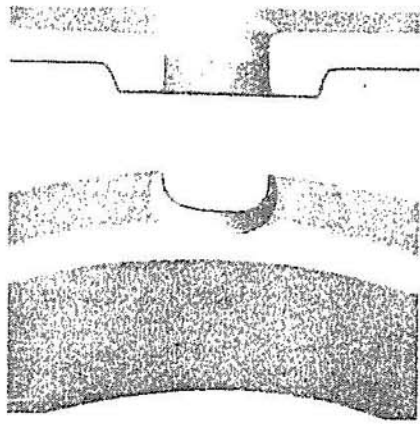


Picture 3

126053—GK208A— 4 (4 CELL)
 126054—GK208A— 5 (5 CELL)
 126055—GK208A— 6 (6 CELL)
 126056—GK208A— 8 (8 CELL)
 126057—GK208A—12 (12 CELL)
 126058—GK208A—16 (16 CELL)

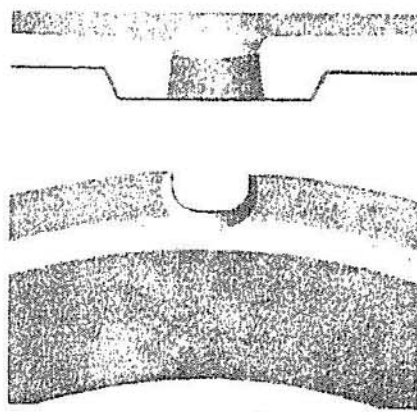
126059—GK209A— 2 (2 CELL)
 126060—GK209A— 4 (4 CELL)
 126061—GK209A— 6 (6 CELL)
 126062—GK209A— 8 (8 CELL)
 126063—GK209A—12 (12 CELL)
 126064—GK209A—16 (16 CELL)

126065—GK210A— 2 (2 CELL)
 126066—GK210A— 3 (3 CELL)
 126067—GK210A— 4 (4 CELL)
 126068—GK210A— 5 (5 CELL)
 126069—GK210A— 6 (6 CELL)
 126070—GK210A— 8 (8 CELL)
 126071—GK210A—10 (10 CELL)
 126072—GK210A—12 (12 CELL)
 126073—GK210A—16 (16 CELL)



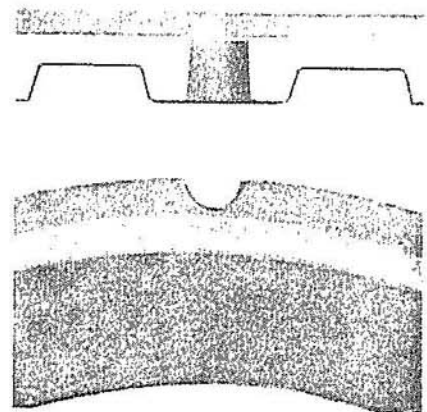
Picture 4

126074—GK244— 4 (4 CELL)
 126075—GK244— 6 (6 CELL)
 126076—GK244— 8 (8 CELL)
 126077—GK244—12 (12 CELL)
 126078—GK244—16 (16 CELL)



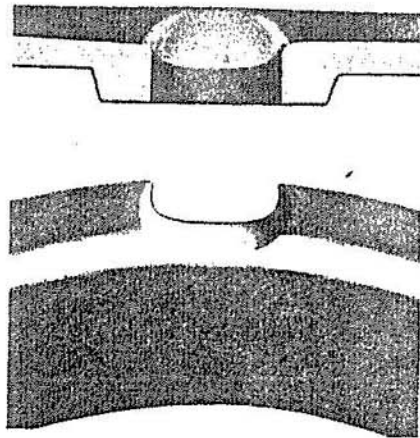
Picture 5

126079—GK280—4 (4 CELL)
 126080—GK280—8 (8 CELL)



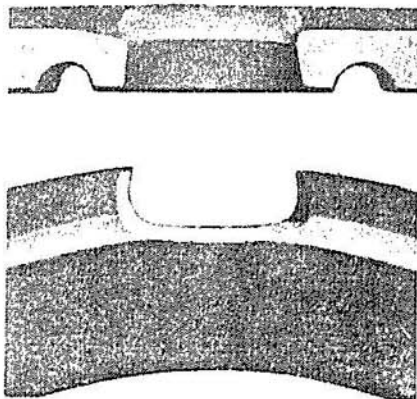
Picture 6

126081—GK281— 9 (9 CELL)
 126082—GK281—18 (18 CELL)



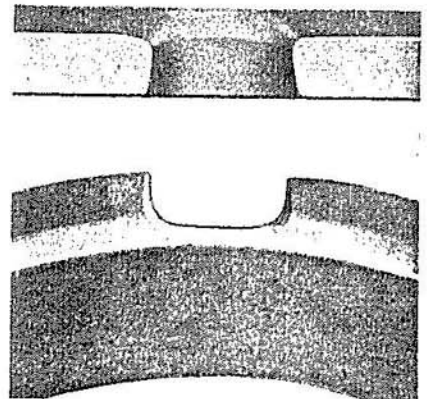
Picture 7

126083—GK319—3 (3 CELL)



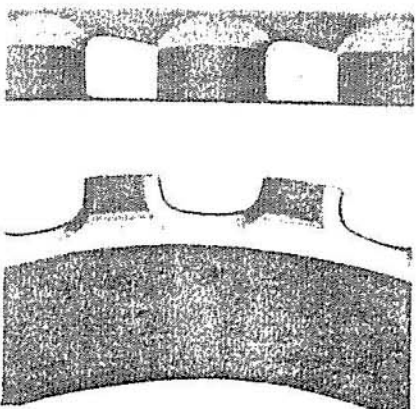
Picture 8

126084—GK327— 8 (8 CELL)
 126085—GK327—16 (16 CELL)



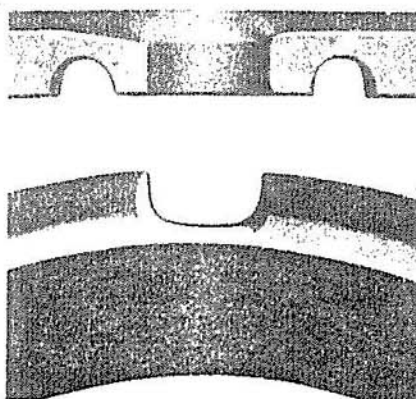
Picture 9

126086—GK330—24 (24 CELL)



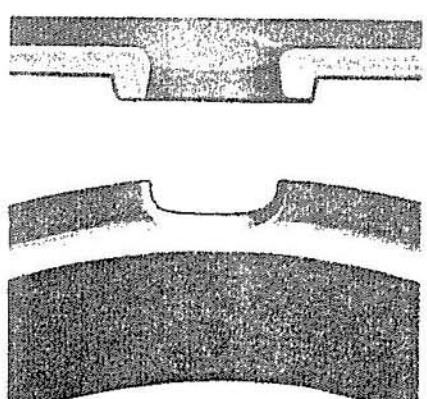
Picture 10

126087—GK331—26 (26 CELL)
 126088—GK331—27 (27 CELL)



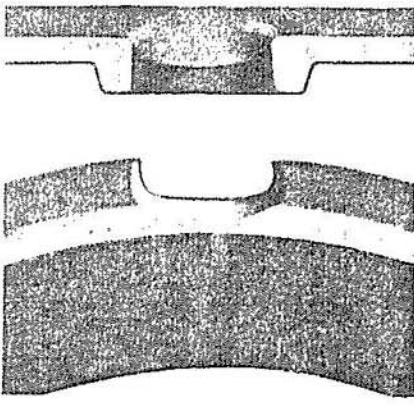
Picture 11

126089—GK338— 9 (9 CELL)
 126090—GK338—18 (18 CELL)



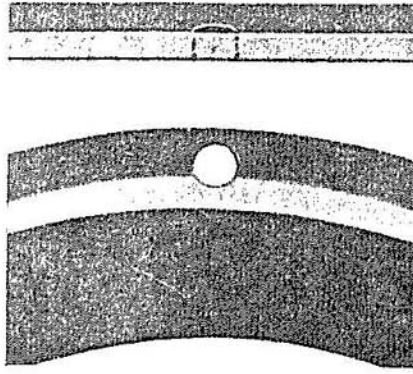
Picture 12

126091—GK394— 6 (6 CELL)
 126092—GK394— 8 (8 CELL)
 126093—GK394—12 (12 CELL)



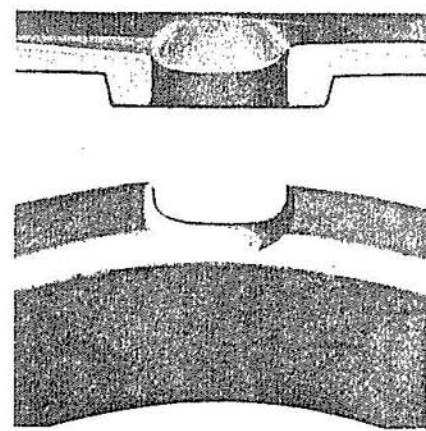
Picture 13

126094-GK395-12 (12 CELL)



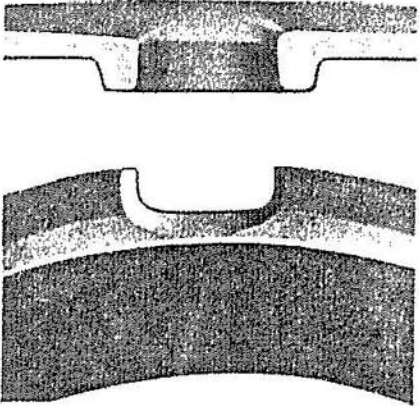
Picture 14

*126095-GK398-12 (12 CELL)
 *126096-GK398A-(BLANK
 PLATE-CELLS CAN BE DRILLED
 AS DESIRED)



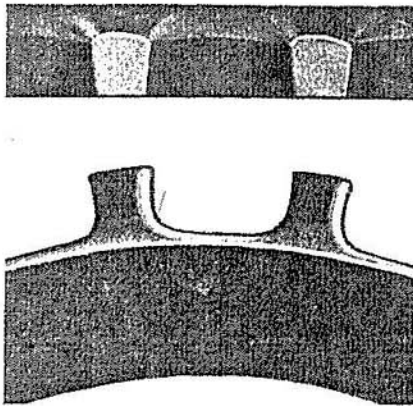
Picture 15

126098-GK407-5 (5 CELL)
 126099-GK407-10 (10 CELL)



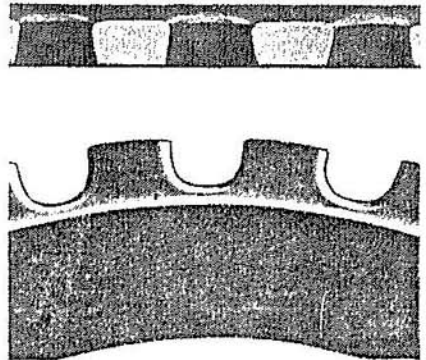
Picture 16

126100-GK434-12 (12 CELL)



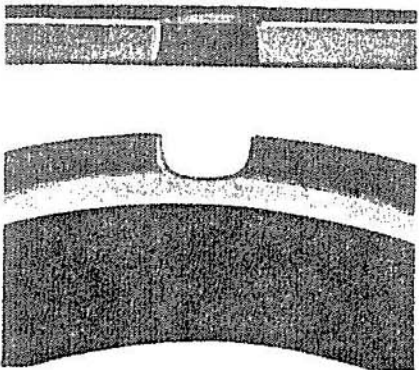
Picture 17

126102-GK475-24 (24 CELL)



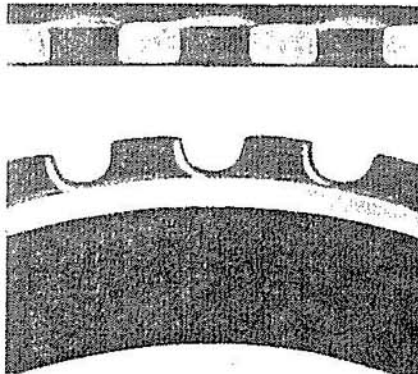
Picture 18

*126103-GK504-30 (30 CELL)



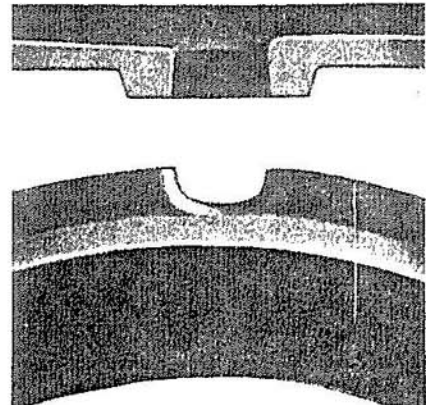
Picture 19

*126104-GK520-8 (8 CELL)
 *126105-GK520-12 (12 CELL)
 *126106-GK520-18 (18 CELL)
 *126107-GK520-36 (36 CELL)



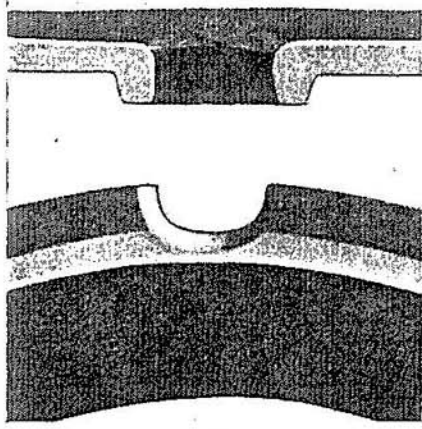
Picture 20

*126108-GK521-36 (36 CELL)
 (*USE GK399A BOTTOM PLATE
 WITH ABOVE PLATES)



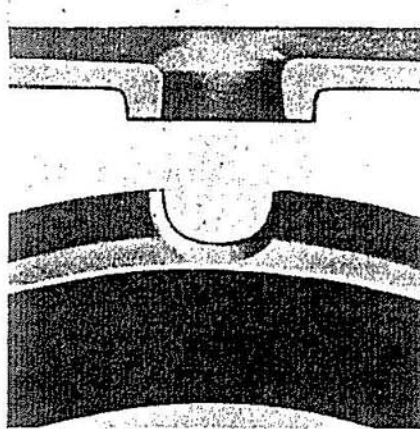
Picture 21

126109-GK620-8 (8 CELL)
 126110-GK620-12 (12 CELL)
 126111-GK620-16 (16 CELL)



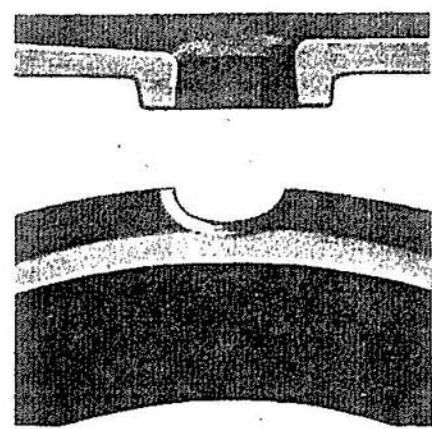
Picture 22

126112-GK621- 4 (4 CELL)
 126113-GK621- 6 (6 CELL)
 126114-GK621- 8 (8 CELL)
 126115-GK621-12 (12 CELL)
 126116-GK621-16 (16 CELL)



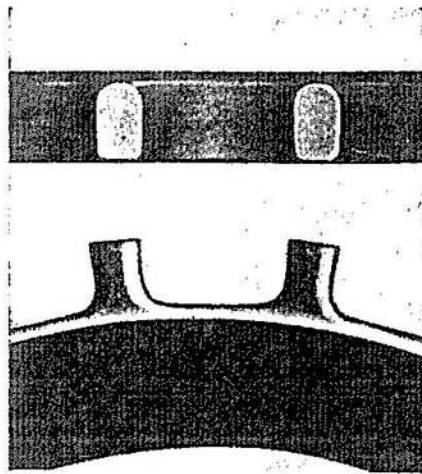
Picture 23

126117-GK627- 8 (8 CELL)
 126118-GK627-12 (12 CELL)
 126119-GK627-16 (16 CELL)



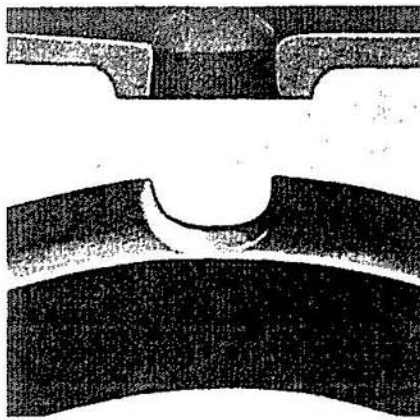
Picture 24

126120-GK630- 6 (6 CELL)
 126121-GK630- 8 (8 CELL)
 126122-GK630-12 (12 CELL)
 126123-GK630-16 (16 CELL)



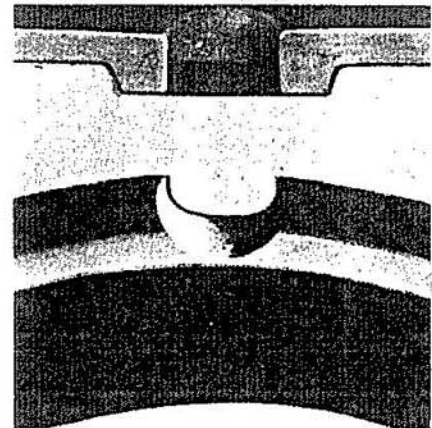
Picture 25

126124-GK634-24 (24 CELL)



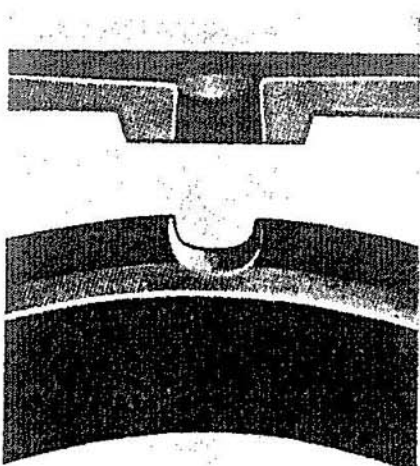
Picture 26

126125-GK862- 8 (8 CELL)
 126126-GK862-12 (12 CELL)



Picture 27

126127-GK913-12 (12 CELL)
 126128-GK913-16 (16 CELL)



Picture 28

126129-GK915-(8 CELL)

EDGE DROP PLANTER PLATES

D.M.C. Number	Picture Number	Plate Number	No. Of Cells	Size and Kind of Seed
126053	1	GK208A-4	4	Large Flat Corn
126054	1	GK208A-5	5	Large Flat Corn
126055	1	GK208A-6	6	Large Flat Corn
126056	1	GK208A-8	8	Large Flat Corn
126057	1	GK208A-12	12	Large Flat Corn
126058	1	GK208A-16	16	Large Flat Corn
126059	2	GK209A-2	2	Medium Flat Corn
126060	2	GK209A-4	4	Medium Flat Corn
126061	2	GK209A-6	6	Medium Flat Corn
126062	2	GK209A-8	8	Medium Flat Corn
126063	2	GK209A-12	12	Medium Flat Corn
126064	2	GK209A-16	16	Medium Flat Corn
126065	3	GK210A-2	2	Small Flat Corn
126066	3	GK210A-3	3	Small Flat Corn
126067	3	GK210A-4	4	Small Flat Corn
126068	3	GK210A-5	5	Small Flat Corn
126069	3	GK210A-6	6	Small Flat Corn
126070	3	GK210A-8	8	Small Flat Corn
126071	3	GK210A-10	10	Small Flat Corn
126072	3	GK210A-12	12	Small Flat Corn
126073	3	GK210A-16	16	Small Flat Corn
126074	4	GK244-4	4	Extra Small Flat Corn
126075	4	GK244-6	6	Extra Small Flat Corn
126076	4	GK244-8	8	Extra Small Flat Corn
126077	4	GK244-12	12	Extra Small Flat Corn
126078	4	GK244-16	16	Extra Small Flat Corn
126079	5	GK280-4	4	Pop Corn
126080	5	GK280-8	8	Pop Corn
126081	6	GK281-9	9	Kaffir Corn, Cane, Sorghum, Milo Maize, and Sugar Beets
126082	6	GK281-18	18	Kaffir Corn, Cane, Sorghum, Milo Maize, and Sugar Beets
126083	7	GK319-3	3	Medium Flat Corn
126084	8	GK327-8	8	Lima Beans, Ensilage Corn
126085	8	GK327-16	16	Lima Beans, Ensilage Corn
126086	9	GK330-24	24	Kidney Beans, California Bayo Beans
126087	10	GK331-26	26	California Pink Beans, Peas
126088	10	GK331-27	27	California Pink Beans, Peas
126098	11	GK338-9	9	Peas, Some Round Corn
126090	11	GK338-18	18	Peas
126091	12	GK394-6	6	Small Flat Corn
126092	12	GK394-8	8	Small Flat Corn

EDGE DROP PLANTER PLATES

D.M.C. Number	Picture Number	Plate Number	No. Of Cells	Size and Kind of Seed
126093	12	GK394-12	12	Small Flat Corn
126094	13	GK395-12	12	Small to Medium Regular and Flat Corn
126095	14	GK398-12	12	Atlas Sargo, Milo Maise, Can, Broom Corn, Grohoma, Sorghum. (Use with G399A Bottom Plate)
126096	14	GK398A		Blank Plate (To make special Plate for Small Seed) (Use with G399a Bottom Plate)
126097		GK399A		Bottom Plate (To be used with all thin Plates)
126098	15	GK407-5	5	Medium Flat Corn
126099	15	GK407-10	10	Medium Flat Corn Plates
126100	16	GK434-12	12	Soy Beans, Large Flat Corn, and Ohio Flint Corn
126101		GK444		Blank Plate for making Special Plates
126102	17	GK474-24	24	Large Bayo Beans, Extra Large Kidney Beans, and for heavy planting of Soy Beans
126103	18	GK504-30	30	Soy Beans
126104	19	GK520-8	8	Navy Beans and Small Round Corn
126105	19	GK520-12	12	Navy Beans and Small Round Corn
126106	19	GK520-18	18	Navy Beans
126107	19	GK520-36	36	Navy Beans
126108	20	GK521-36	36	Pea Beans
126109	21	GK620-8	8	Extra Small Round Corn
126110	21	GK620-12	12	Extra Small Round Corn
126111	21	GK620-16	16	Extra Small Round Corn
126112	22	GK621-4	4	Small Round Corn
126113	22	GK621-6	6	Small Round Corn
126114	22	GK621-8	8	Small Round Corn
126115	22	GK621-12	12	Small Round Corn
126116	22	GK621-16	16	Small Round Corn
126117	23	GK627-8	8	Medium Round Corn
126118	23	GK627-12	12	Medium Round Corn
126119	23	GK627-16	16	Medium Round Corn
126120	24	GK630-6	6	Medium Small Round Corn
126121	24	GK630-8	8	Medium Small Round Corn
126122	24	GK630-12	12	Medium Small Round Corn
126123	24	GK630-16	16	Medium Small Round Corn
126124	25	GK634-24	24	Soy Beans (Heavy Planting)
126125	26	GK862-8	8	Large Round Corn, Beans
126126	26	GK862-12	12	Large Round Corn, Beans
126127	27	GK913-12	12	Extra Small to Small Flat Corn
126128	27	GK913-16	16	Extra Small to Small Flat Corn
126129	28	GK915-8	8	Extra Small Corn, Pop Corn, Sweet Corn

NOTE: When check planting, 16 cell plates must be used. Any desired number of cells may be used when drill planting.

SOY BEAN CHART

Approximate Pounds of Soy Beans Drilled Per Acre
With the Following Plates and Sprocket Combinations

DMC No.	No. on Plate	No. of Cells	Row Width	6 Tooth Driven Sprocket			10 Tooth Driven Sprocket		
				9-T	14-T	18-T	9-T	14-T	18-T
126089	GK338	9	28	8.6	13.4	17.2	5.3	8.0	10.6
126090	GK338	18	28	17.2	26.8	34.4	10.6	16.0	21.2
126089	GK338	9	30	8.0	12.5	16.0	4.9	7.5	9.8
126090	GK338	18	30	16.0	25.0	32.0	9.8	15.0	19.6
126089	GK338	9	32	7.5	11.8	15.0	4.6	7.0	9.2
126090	GK338	18	32	15.0	23.6	30.0	9.2	14.0	18.4
126089	GK338	9	34	7.1	11.0	14.2	4.4	6.6	8.8
126090	GK338	18	34	14.2	22.0	28.4	8.8	13.2	17.6
126089	GK338	9	36	6.7	10.1	13.4	3.9	6.2	7.8
126090	GK338	18	36	13.4	20.2	26.8	8.0	12.4	16.0
126089	GK338	9	38	6.3	9.7	12.6	3.8	5.9	7.6
126090	GK338	18	38	12.5	19.4	25.0	7.5	11.7	15.0
126089	GK338	9	40	6.0	9.4	12.0	3.7	5.6	7.4
126090	GK338	18	40	12.0	18.8	24.0	7.3	11.2	14.6
126089	GK338	9	42	5.6	8.8	11.2	3.4	5.3	6.8
126090	GK338	18	42	11.3	17.6	22.6	6.8	10.6	13.6
126100	GK434	12	28	11.9	18.6	23.8	7.0	12.7	14.0
126100	GK434	12	30	11.0	17.3	22.0	6.5	10.3	11.0
126100	GK434	12	32	10.4	16.3	20.8	6.1	9.6	12.2
126100	GK434	12	34	9.8	15.3	19.6	5.8	9.1	11.6
126100	GK434	12	36	9.1	14.0	18.2	5.5	8.9	11.0
126100	GK434	12	38	9.0	13.7	18.0	5.2	7.9	10.4
126100	GK434	12	40	8.3	13.0	16.6	4.9	7.7	9.8
126100	GK434	12	42	8.0	12.0	16.0	4.7	7.0	9.4
126117	GK627	8	28	6.7	10.7	13.4	4.2	6.3	8.4
126118	GK627	12	28	10.0	16.0	20.0	6.6	9.5	13.2
126119	GK627	16	28	13.4	21.4	26.8	8.4	12.6	16.8
126117	GK627	8	30	6.3	10.0	12.6	3.9	5.9	7.8
126118	GK627	12	30	9.5	15.0	19.0	5.9	8.9	11.8
126119	GK627	16	30	12.6	20.0	25.2	7.8	11.8	15.6
126117	GK627	8	32	5.9	9.4	11.8	3.6	5.5	7.2
126118	GK627	12	32	8.9	14.1	17.8	5.4	8.3	10.8
126119	GK627	16	32	11.8	18.8	23.6	7.2	11.0	14.4
126117	GK627	8	34	5.5	8.8	11.0	3.4	5.2	6.8
126118	GK627	12	34	8.3	13.2	16.6	5.1	7.8	10.2
126119	GK627	16	34	11.0	17.6	22.0	6.8	10.4	13.6
126117	GK627	8	36	5.3	8.3	10.6	3.2	4.9	6.4
126118	GK627	12	36	8.0	12.5	16.0	4.8	7.4	9.6
126119	GK627	16	36	10.5	16.4	21.0	6.3	10.0	12.6
126117	GK627	8	38	5.1	7.9	10.2	3.2	4.5	6.4

SOY BEAN CHART

Approximate Pounds of Soy Bean Drilled Per Acre
With the Following Plates and Sprocket Combinations

DMC No.	No. on Plate	No. of Cells	Row Width	6 Tooth Driven Sprocket Driving Sprocket			10 Tooth Driven Sprocket Driving Sprocket		
				9-T	14-T	18-T	9-T	14-T	18-T
126118	GK627	12	38	7.6	11.9	15.2	4.8	7.1	9.6
126119	GK627	16	38	10.3	16.2	20.6	6.3	9.5	12.6
126117	GK627	8	40	4.7	7.5	9.4	2.9	4.4	5.8
126118	GK627	12	40	7.1	13.4	14.2	4.3	6.7	8.6
126119	GK627	16	40	9.2	14.8	18.4	5.4	8.9	10.8
126117	GK627	8	42	4.5	7.1	9.0	2.7	4.2	5.4
126118	GK627	12	42	6.8	10.6	13.6	4.1	6.3	8.2
126119	GK627	16	42	9.1	14.2	18.2	5.4	8.4	10.8
126126	GK862	8	28	8.2	12.7	16.4	5.0	7.7	10.0
126126	GK862	12	28	12.1	20.0	24.2	7.9	11.5	15.8
126126	GK862	8	30	7.6	11.8	15.2	4.7	7.2	9.4
126126	GK862	12	30	11.3	17.9	22.6	6.9	11.8	13.8
126126	GK862	8	32	7.1	11.1	14.2	4.4	6.8	8.8
126126	GK862	12	32	10.6	16.8	21.2	6.5	10.1	13.0
126126	GK862	8	34	6.7	10.5	13.4	4.1	6.4	8.2
126126	GK862	12	34	10.0	15.8	20.0	6.1	9.5	12.2
126126	GK862	8	36	6.4	9.9	12.8	3.8	5.9	7.6
126126	GK862	12	36	9.2	14.8	18.4	5.4	8.9	10.8
126126	GK862	8	38	6.0	9.4	12.0	3.6	5.6	7.2
126126	GK862	12	38	9.0	14.0	18.0	5.4	8.4	10.8
126126	GK862	8	40	5.7	8.9	11.4	3.5	5.4	7.0
126126	GK862	12	40	8.5	13.4	17.0	5.2	8.1	10.4
126126	GK862	8	42	5.4	8.4	10.8	3.4	5.3	6.8
126126	GK862	12	42	8.2	13.1	16.4	5.1	8.0	10.2
126124	GK634	24	28	52.2	82.2	104.4	31.8	49.3	63.6
126124	GK634	24	30	48.6	76.7	97.2	29.6	46.0	59.2
126124	GK634	24	32	45.7	72.0	91.4	27.8	43.2	55.6
126124	GK634	24	34	43.0	67.6	86.0	26.2	40.6	52.4
126124	GK634	24	36	41.0	63.5	82.0	24.5	38.0	49.0
126124	GK634	24	38	39.0	61.0	78.0	23.5	36.2	47.0
126124	GK634	24	40	36.5	57.5	73.0	22.2	34.5	44.4
126124	GK634	24	42	35.4	54.5	70.8	21.0	33.0	42.0
126102	GK475	24	28	37.9	65.4	75.8	25.3	39.1	50.6
126102	GK475	24	30	39.4	51.0	78.8	23.6	36.6	47.2
126102	GK475	24	32	37.0	57.2	74.0	22.2	34.3	44.4
126102	GK475	24	34	34.8	53.8	69.6	20.8	32.3	41.6
126102	GK475	24	36	29.5	45.7	59.0	17.7	27.4	35.4
126102	GK475	24	38	28.0	43.0	56.0	16.6	26.0	33.2
126102	GK475	24	40	26.5	41.2	53.0	15.8	24.7	31.6
126102	GK475	24	42	25.0	39.0	50.0	15.1	23.5	30.2

Here are some of the implements in the Dearborn Farm Equipment Line:

MOLDBOARD PLOWS

DISC PLOWS

TILLERS

TWO-WAY PLOWS

ONE-WAY PLOWS

MIDDLEBUSTERS

TANDEM DISC HARROWS

SPRING TOOTH HARROWS

BUSH & BOG HARROWS

SUBSOILERS

GRAIN DRILLS

LIME & FERTILIZER SPREADERS

SPRING SHANK CULTIVATORS

RIGID SHANK CULTIVATORS

FIELD CULTIVATORS

ROTARY HOES

BUSTER PLANTERS

COTTON & CORN PLANTERS

CORN PICKERS

CORN HARVESTERS

FRONT & REAR LOADERS

COMBINES

MOWERS

CRANES

SWEEP RAKES

SIDE DELIVERY RAKES

SCOOPS

MANURE SPREADERS

BLADES

SCRAPERS

WAGONS

POST HOLE DIGGERS

DISC RIDGERS

SNOW PLOWS

For Further Information . . .

SEE YOUR LOCAL FORD TRACTOR DEALER

DEARBORN MOTORS CORPORATION EQUIPMENT WARRANTY

DEARBORN MOTORS CORPORATION warrants all parts (other than pneumatic tires, inner tubes and batteries) of equipment bearing the trade-mark "Dearborn" to the original purchaser thereof at retail, for a period of six (6) months from the date of delivery thereof to the original purchaser at retail, to be free from defects in workmanship and material under normal use and service. The obligation of Dearborn Motors Corporation under this warranty shall be limited to shipment, without charge to the original purchaser at retail, of the part or parts of such Dearborn Equipment intended to replace the part or parts acknowledged by Dearborn Motors Corporation to be defective in workmanship or material. This warranty is in lieu of all other warranties, expressed or implied, and of all obligations or liabilities on the part of Dearborn Motors Corporation, and it neither assumes nor authorizes any person to assume for it, any other obligation or liability in connection with workmanship or material of equipment bearing the trade-mark "Dearborn" or any part thereof. This warranty shall not apply to any Dearborn Equipment, or any part thereof, which has been damaged in any accident, or by fire, flood, or Act of God, or abused or misused, or which has been altered elsewhere than at the place of manufacture, or in which the original purchaser thereof at retail, has used or allowed to be used, parts not made or supplied by Dearborn Motors Corporation. Dearborn Motors Corporation reserves the right at any time to make changes in the design, materials and/or specifications of equipment bearing the trade-mark "Dearborn" and/or accessories therefor, without thereby becoming liable to make similar changes in equipment bearing the trade-mark "Dearborn" and/or accessories therefor, previously manufactured.

DEARBORN MOTORS CORPORATION
BIRMINGHAM, MICHIGAN