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Directions for Assembly and Use of PLANET JR. NO. 300 AND 300A SEEDER

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The Planet Jr. No. 300 (or No. 300A) plants practically all kinds of vegetable seeds in continuous drills. It was designed and built after fifty years' experience making vegetable seeding machines, and is the ideal hand seeder for anyone growing vegetables commercially and for the large home garden. Like other Planet Jr. equipment it is a time and labor saver, and with reasonable care, as well as attention to these instructions, it will last a long time and be a profitable investment to you.

The No. 300 Seeder pushes easier on muck or sandy soil, due to the large, flat rear roller, as shown in Fig. 1, while the No. 300A Seeder leaves a slight ridge over the seed, due to the concave rear roller as shown in Fig. 3. This makes it easier for the sprouts to break through the crust.

Shipment is made in two (2) packages as follows:

1 BOX, CONTAINING

- | | |
|--|--|
| 1 Seeder assembled | 1 1/4" x 1 3/4" Carg. Bolt (in envelope) |
| 1 Marker complete | 1 1/4" Wingnut No. 19 (in envelope) |
| 3 Seeding Plates | 1 Nail Package (in envelope) |
| 1 Eyebolt No. 5483 (in envelope) | 1 No. 3 Wrench |
| 1 Marker Hanger No. 5449 (in envelope) | 1 No. 5430 Wrench |
| 1 Seed Shutoff Rod No. 5475 | 1 Marker Cord and Ring |
| | 1 Handle Round |

1 HANDLE PACKAGE, CONTAINING: 2 Handles

TO ASSEMBLE

- Remove marker and marker rod (shipped wired to frame). Assemble marker on marker rod, fasten marker rod No. 5477 to frame as shown in illustration. Be sure to place washer next to cotter pin.
- Remove from inside of hopper, 2 seeding plates, 2 wrenches, envelope, marker cord and ring.
- Assemble handles and handle round, but do not fasten with nails. Bolt handles to frame and handle braces. Fasten handle round in handles with nails supplied. Adjust handles to proper height and tighten bolts.
- Attach marker hanger No. 5449 to left hand handle in position shown in illustration. Attach eyebolt No. 5483 (see over) to right hand handle as shown. Insert 1/4" x 1 3/4" carriage bolt in left hand handle near handle round; place thereon the two extra seeding plates and fasten on with wingnut supplied.
- Insert seed shutoff rod No. 5475 through eyebolt No. 5483 and fasten end in seed shutoff lever. No. K-719; see that latch is down to prevent rod from coming out.
- Remove wire holding handle of cam No. K-740 (see over) to frame bar.
- Go over all bolts on seeder and make sure they are tight.

TO OPERATE

Seed Shutoff:

This is operated from the handle by means of seed shutoff rod No. 5475. An easy way to remember whether Seeder is open or shut off, is as follows: When starting on the row, push the seed shutoff rod forward—shutoff is then open; when stopping at end of row, pull the shutoff rod back or toward you it is then closed.

Marker:

To take care of various soil conditions, the marker has been designed so that it can be used in light or heavy soil with equally satisfactory results.

Where the soil is heavy or where a deep mark is required, use the marker as you receive it.

Where the soil is light or a very light mark is required, open the marker by removing the bolt therein, remove the inner casting or weight No. K-729, and assemble the two marker halves.

Rear Wheel Scraper: No. 300

This scraper is held either against or away from the rear wheel or roller by a reversible spring No. 5447.

To hold scraper against wheel, hook end of spring under frame bar toward rear of Seeder.

To hold scraper away from wheel, hook spring under frame bar toward front of Seeder.

Coverer Stop Piece:

On left hand side of frame bar is fastened a slotted steel piece, adjustable up and down to limit lift of coverer when desired.

To Remove Hopper

If seed is in hopper, pull seed shutoff rod to rear of Seeder, thus closing seed shutoff.

Remove end of seed shutoff rod from shutoff lever.

Loosen cam, moving handle to front of Seeder.

Lift hopper upward and toward rear until free from frame.

To Replace Hopper:

Place end of drive shaft in bearing hole in drive wheel gear cover.

Lower hopper in place and push forward.

Turn cam handle to front of Seeder.

See that hopper is hooked on pin on right hand side of spout.

Tighten cam by turning cam handle to rear.

Insert seed shutoff rod in shutoff lever, and put latch down.

Seeding Plates:

Three seeding plates are furnished with the Seeder, each plate having 13 holes, 39 holes or adjustments in all. The plate with smallest holes (No. 5458) is in Seeder as shipped, No. 1 hole in position. The other plates are No. 5459, with holes No. 14 to No. 26, and plate No. 5460, with holes No. 27 to 39.

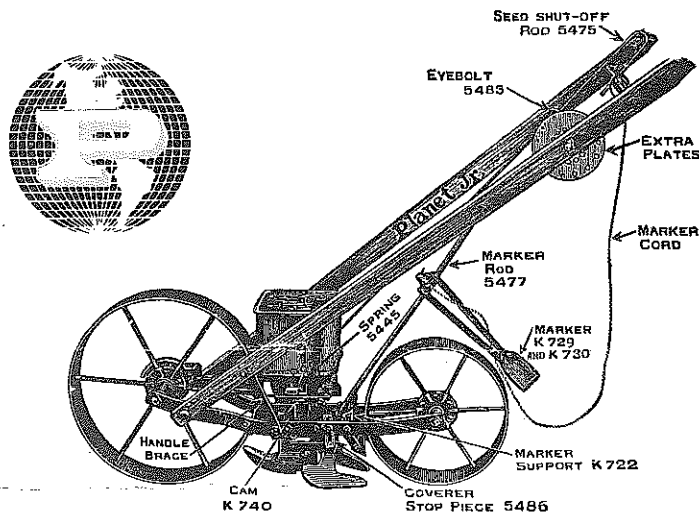


FIGURE 1 (300 SEEDER)

To Adjust Seeding Plate to Sow from Various Holes:

- To place any particular hole in position to sow through, proceed as follows: Assume that you desire to sow through hole No. 5.
 - Loosen cam No. K-740 slightly by moving handle about 1" toward the front of Seeder.
 - Lift flat spring No. 6542X until pin is disengaged with hole in seeding plate. (Do not pull this spring out.)
 - Revolv seeding plate until the stamped numeral "5" comes opposite the pin in flat spring No. 6542X.
 - Snap pin in index hole in seeding plate.
 - Tighten cam No. K-740 by turning to rear of Seeder. The above procedure follows for adjusting to any hole with any seeding plate. Refer to Fig. No. 3.

2. To Change to Use Another Seeding Plate:

- Remove hopper from spout.
- Lift and pull out flat spring No. 6542X.
- Remove cam No. K-740 and seeding plate.

- Place desired seeding plate in position (being sure stamped numerals are on upper side of plate).
- Insert Cam No. K-740.
- Replace flat spring No. 6542X, being sure pin is inserted in index hole in seeding plate.
- Replace hopper on spout and tighten Cam No. K-740.

Caution: If difficulty is experienced in putting cam back when changing plate, clean out all dirt that lodges where plate comes in contact with seed opening in bottom of hopper.

3. Stamped Numerals on Seeding Plates:

These are used in setting seeding plates to sow through any desired hole. Reference to figure No. 2 will make clear their use. The side of seeding plate with stamped numerals thereon should always be placed upward in Seeder.

4. To Determine Correct Seeding Hole to Use:

On the inside of hopper lid will be found a plate with a table showing list of seeds commonly used, with average number of seed sown to the foot, accompanied by the numbered hole in seed plate that will sow that quantity of seed. This table should be used only as a guide. Seeds of the same variety vary greatly in size; therefore it will be necessary to test Seeder with seed you intend to use before sowing.

From seeding table determine hole for sowing seed you desire. Set seeding plate with hole indicated by table in position to sow.

Place enough seed in hopper to cover feed wheel.

Push Seeder along ground or floor a short distance, and examine the distribution of seed.

More or less seed per foot can be sown by moving the plate to a larger or smaller hole as required.

In testing Seeder, hold rear wheel slightly off the ground so seeds will not be rolled down.

NOTE: As the correct hole is found for various seeds, a note made and kept will enable you to reset the seeding plate quickly when sowing the same seeds at a later date.

Opening Plows:

The opening plow furnished with our various units as regular equipment is K712. This type of plow is shown as a muckland plow and is recommended for general use on tractor operated or multiple row machines. It has a planting range of 0 to 1 1/2" deep.

There are nine notches on the plow for depth adjustment. Notches are 3/8" apart. The first notch holds the plow above ground for shipping and transporting.

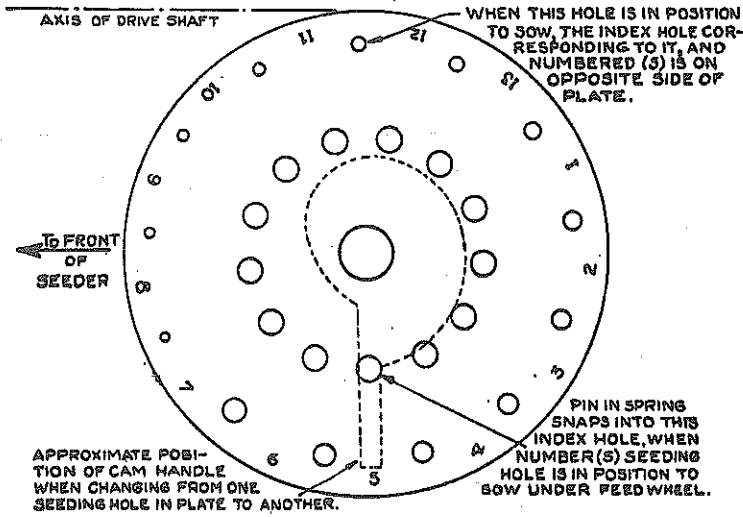


FIGURE 2

The depth to plant depends on a number of factors, kind of seed, time of year, moisture available, preparation of seed bed and the grower should consider all of them when setting the plow. Tighten wingnuts with a pair of pliers.

When starting to plant, the actual depth the seeds are planted should be checked by digging down in the row until seeds are located. It is better to make the necessary change at the start rather than plant so shallow as to dry out, or to bury the seed beyond the ability of the plants to push through.

Plows sometimes wear rapidly due to grinding effect of sand in the soil and should be inspected occasionally, and not deeper as wear occurs.

K708 Upland plow, planting range 1" to 2 1/4".

K783 Onion set plow, 2" wide, planting range 0" to 1 1/4".

K769 Onion set plow, 4" wide, planting range 0" to 1 1/2" (wide covers 8895X and wide roller K882 are required).

Extra Attachments:

1. Special opening plows as listed above.
2. Disc Ridges (order 8041X for 300A Seeder, and 7984X for 300 Seeder).

Other Opening Plows Available are:

K812 Muckland plow, planting range 1" to 2 1/4".

K762 Upland plow, planting range 0" to 1 1/2".

REPAIR LIST

Machine used on

- | | | |
|-------|-------|------------------------------|
| 300A | 300 | |
| K740 | K740 | Cam |
| K723 | K723 | Coverer (order 6540X) |
| 6540X | 6540X | Coverer and arms |
| 5478 | 5478 | Drive shaft |
| 6533X | 6533X | Drive wheel |
| K713 | K713 | Drive wheel hub |
| 3806 | 3806 | Dust cap |
| 5483 | 5483 | Eyebolt for seed shutoff rod |
| K817 | K817 | Feed wheel |
| 4910 | 4910 | Ferrule for drive wheel |
| 5473 | 5473 | Ferrule for roller |
| K721 | K721 | Gear cover |
| W541 | W541 | Handle L.H. |
| W542 | W542 | Handle R.H. |
| 5443 | 5443 | Handle brace |
| W148 | W148 | Handle round |

Machine used on

- | | | |
|-------|-------|----------------------------------|
| 300A | 300 | |
| 5449 | 5449 | Hook for marker hanger |
| 7306X | 6547X | Hopper and drive shaft assembled |
| K717 | K717 | Hopper |
| 4898 | 4898 | Hub plate |
| 6542X | 6542X | Latch spring and spud |
| 6538X | 6538X | Lever and latch, seed shutoff |
| 6543X | 6543X | Marker and arm |
| 5096 | 5096 | Marker arm |
| 6270X | 6270X | Marker cord and ring |
| K730 | K730 | Marker half |
| 5477 | 5477 | Marker rod |
| K731 | K731 | Marker rod clamp |
| K722 | K722 | Marker rod and scraper support |
| K729 | K729 | Marker weight |
| K732 | K732 | Pinion |
| K712 | K712 | Plow, opening (peal land) |

Machine used on

- | | | |
|------|-------|-------------------------------|
| 300A | 300 | |
| K694 | 6534X | Rear wheel |
| | K736 | Rear wheel hub |
| 5910 | 5435 | Rear wheel scraper |
| | 5447 | Rear wheel scraper spring |
| 5444 | 5444 | Scraper for drive wheel |
| 5481 | 5481 | Seed index |
| 5458 | 5458 | Seed plate (holes 1 to 13) |
| 5459 | 5459 | Seed plate (holes 14 to 26) |
| 5460 | 5460 | Seed plate (holes 27 to 39) |
| 5441 | 5441 | Seed shutoff |
| 5475 | 5475 | Shutoff rod |
| K835 | K835 | Spout |
| 5308 | 5308 | Spring for seed shutoff lever |
| 5486 | 5486 | Stop piece for coverer |

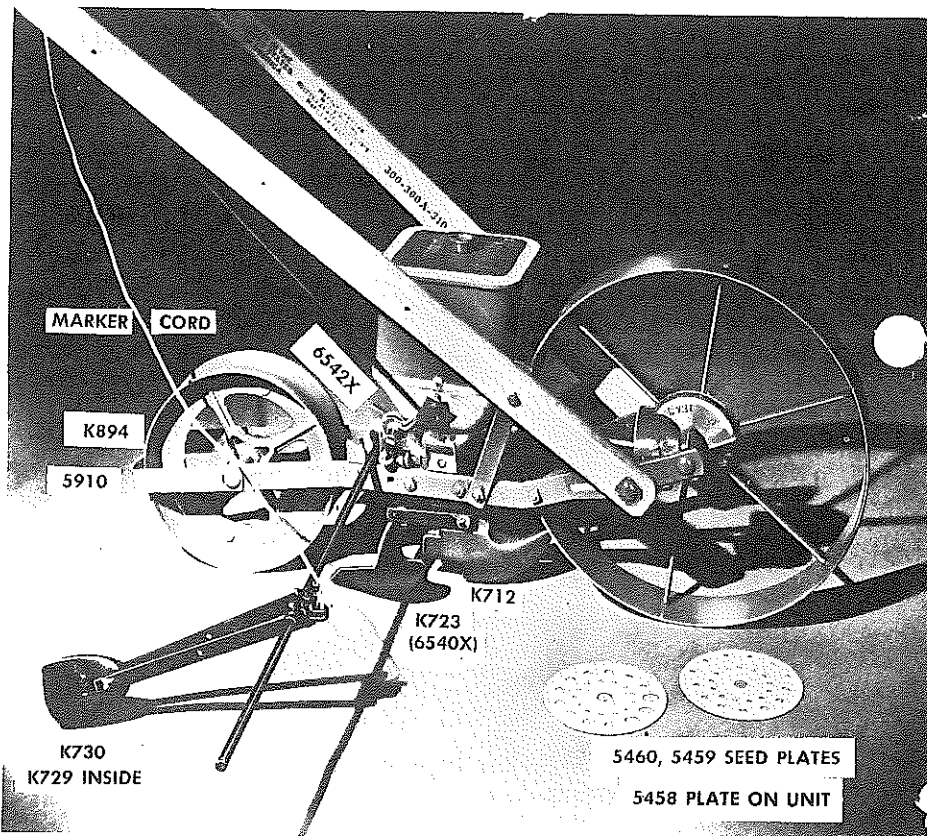


FIGURE 3 (300A SEEDER)