



Polyplanter Junior 3.0 User's Manual

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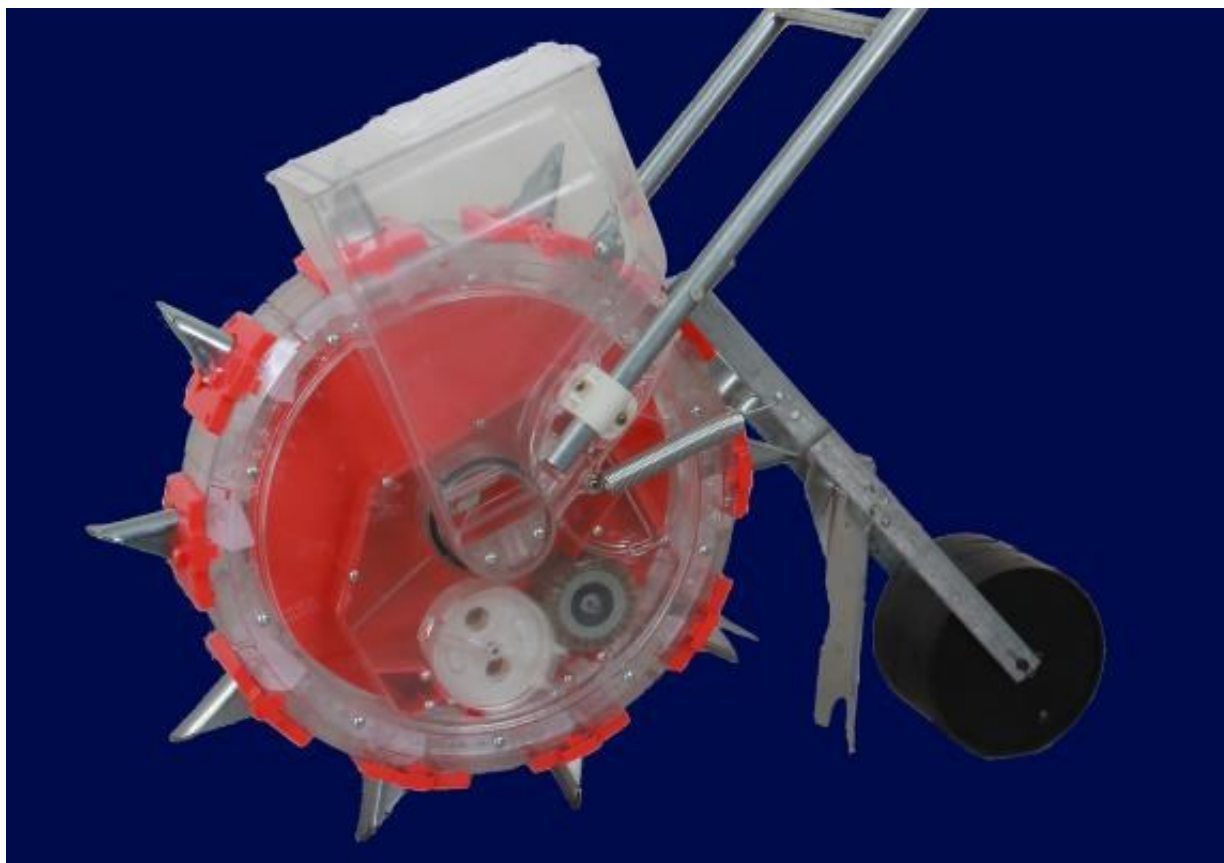
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Introduction

Welcome , this is the new and improved PolyPlanter Junior 3.0. We have upgraded it due to feedback from customers and are always working to make a better product.

New improvements are:

1. Better small seed insert for singulation of small seeds
2. new inner hopper design to help seeds flow to seed plate better
3. new handle part to make it easier to keep the hopper level for taller individuals

We hope you enjoy your new planter and as always, we love feedback good or bad.

The Polyplanter Junior is a mini seeder that can be used by one person. The Junior will enable you to sow numerous seeds through plastic and on bare ground. You can plant seeds as small as cabbage and as large as lima beans.

The Junior comes with 10 seed discs. You can plant one seed per drop or 2 seeds per drop depending on what plate you use. You are also able to adjust the in-row spacing from 6" to 30" by adjusting the beaks. This takes about 10 minutes to do.

The Junior is made from hard durable plastic and is a time saver. It is easy to push at a nice comfortable walking speed and requires no bending over. It weighs less than 25 lb., so it is easy to carry and push down the row.

Contents

Bag of parts:

4 Clevis Pins with Couters

8 Springs

12 Screws

Upper Handle (T Handle)

Lower Handle (H Handle)

Seed Cover bracket

Black Rollers (2)

10 Seed Plates (9 in bag, 1 in machine)

Planting head with hopper complete

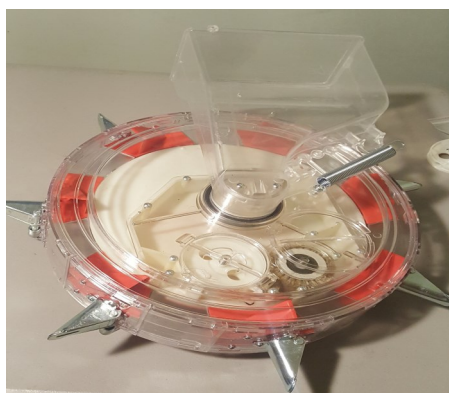
Pelleted plate

2 red rubber handle covers

Roller Assembly



Bag of Parts



Planting Head with Hopper



Roller Assembly with Soil Cover Attachment



Upper and Lower Handles



Seed Plates

Tools Needed for Assembly

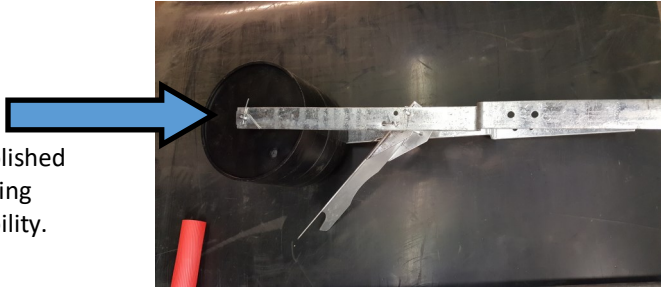
Small Phillips Screwdriver

Small Flat Head Screwdriver

Initial Assembly

Step 1: Remove all items from the packaging

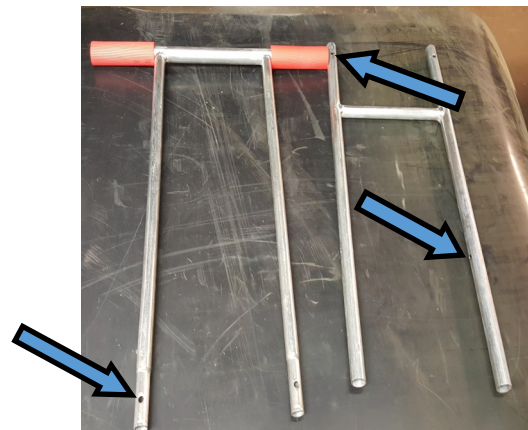
Step 2: If you are planting with plastic, remove the soil cover attachment from the roller assembly. This can be accomplished by removing the cotter pins and removing the long pins holding the attachment. Replace the pins and cotters for added stability.



Step 2

Step 3: Handle Assembly – Insert the Upper handle into the Lower Handle and secure with two (2) clevis and cotter pins.

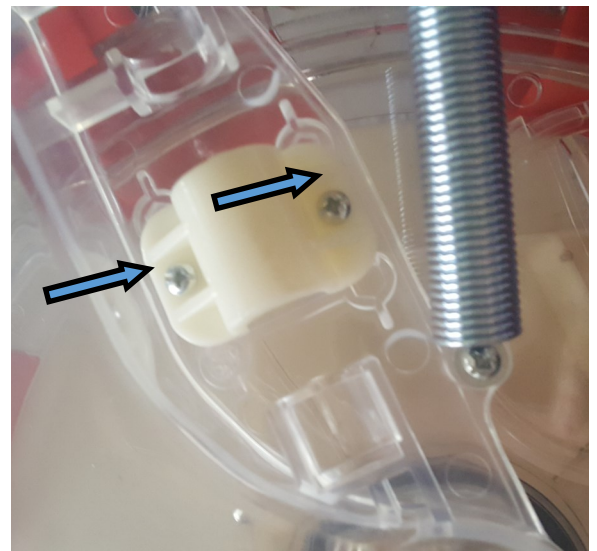
Step 4: Attach the roller assembly to the handle by lining up the holes and inserting two (2) clevis and cotter pins.



Step 3 and Step 4

Step 5: After loosening the screws of the handle holders, slide the handle/roller assembly into the planting head with the roller assembly facing down and away from the hopper. Secure the handle by tightening down the screws on each side of the planting head.

Assembly complete!



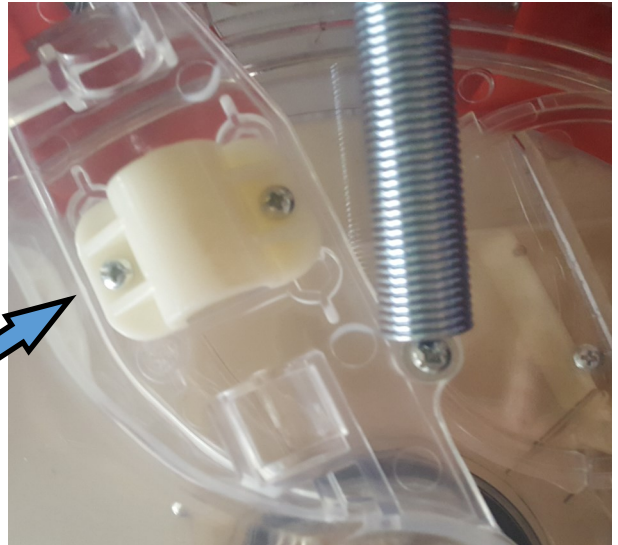
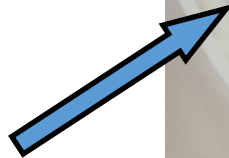
Step 5

Changing Spacing

Video Instructions can be found at :

<https://www.youtube.com/watch?v=2L3bGofN5u0>

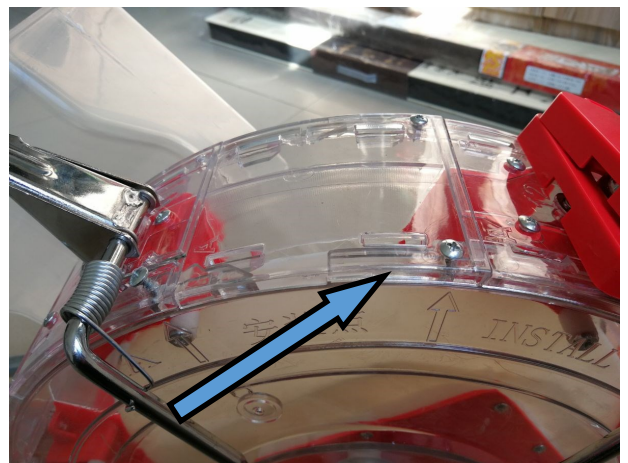
Step 1: Remove handle by unscrewing two(2) bolts on each side of the planting head. Remove both springs and the handle will remove easily.



Step 2: Remove the (2) screws that hold the hopper on and put aside. It is not necessary to remove hopper but it does make it easier to change the spacing.



Step 3: Flip over planting head, so you are on the side that says "install" with 2 arrows. This side will also have an A on it.

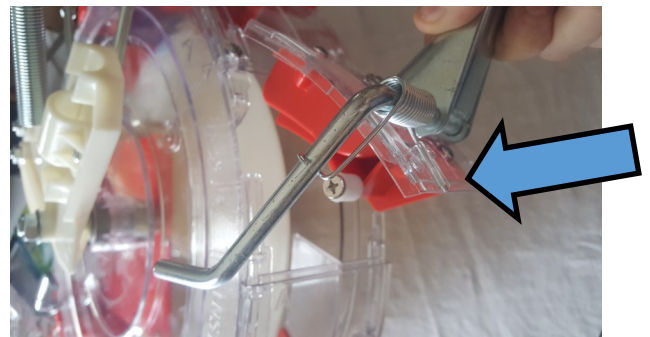
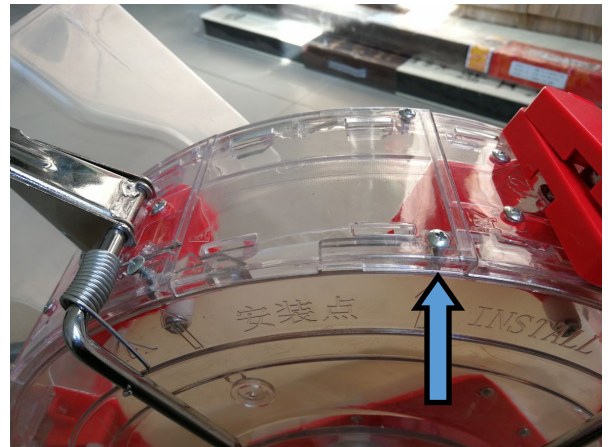


Step 4: Using a flat head screwdriver, remove the red cover to the beak housing by inserting screwdriver under lip and flipping off. The whole red cover should pop off now. .

Note: In place of changing the number of beaks on your Polyplanter Jr., if you are looking for a seed to drop every other beak point, you can use a 7 cell seed disk. Should the seeds be too odd for the plate (or flat), fill it with Bondo and carve out a cavity to fit the seed. (See troubleshooting)

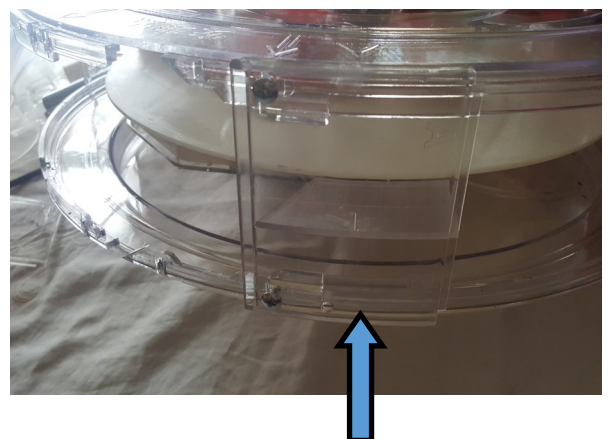
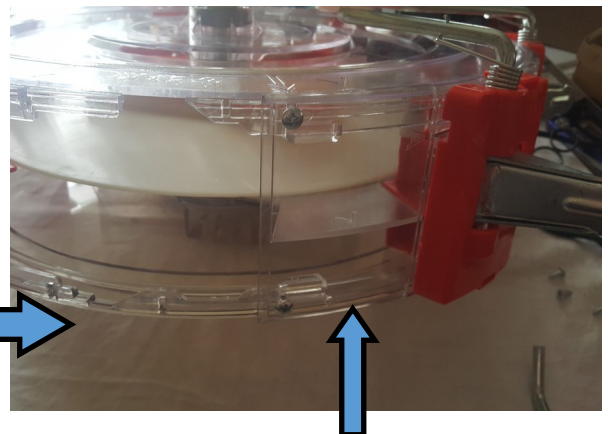


Step 5: Remove the first set of screws located by the word installed with an arrow and the one directly across from it. This will allow the beak housing to pop off. Set aside.



Step 6: Remove all of the beaks except the one that is still screwed in going counter clockwise.

Step 7: Remove the next 2 screws located by the "A" arrow. This is where you will be putting in a new head spacer. If you are going from a larger head to smaller head you will need to remove another beak housing to put the spacer in. Screw the new spacer in with 2 screws (make sure the holes line up before you screw them into the plastic). This will be your build point. *** **This is important.** Always put the screws in a spacer at this time. Or if changing to a 12 head, put them in a beak housing. If you do not do this before beginning to build or remove spacers/beaks the whole thing will turn and it will be hard to remove things.



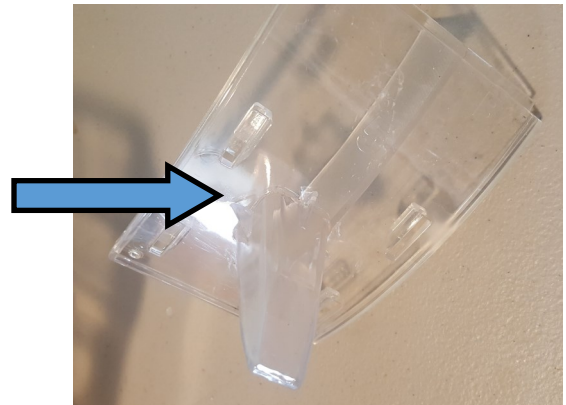
Step 8: AT this point the only screws that are in the head are the ones with the new number spacer you want to use

Step 9: Now we will assemble in reverse order. Put a beak housing on the head. The easiest way to get the beak housing to go on smoothly is by placing the lip underneath the spacer to the right and sliding it left along the track. Follow this by placing a spacer on the track (it should fit in the grooves easily, and slide it to left.)

Repeat this process until all spacers and beak housing are on. Make sure there are no spaces between the beak housing and spacers. When you install the last beak housing use 2 screws to hold it in place. This will match up with the arrow closest to the word "install".

Replace hopper and handle, then you are ready to plant.

Notes: For a 12 head, no spacer is required. Changing all spacings is the same except for 5,4,3 and 2. spacing. The 4,3, and require more spacers between the beaks. For changing to a 5 head refer to later in manual.



Additional Optional Parts:

Small Seed insert (singulator)

This is used for planting very small seeds, such as seeds as small as cabbage and broccoli. It includes 3 seed plates. When using make sure the insert is secured into the planting head. It can not pull out easily.

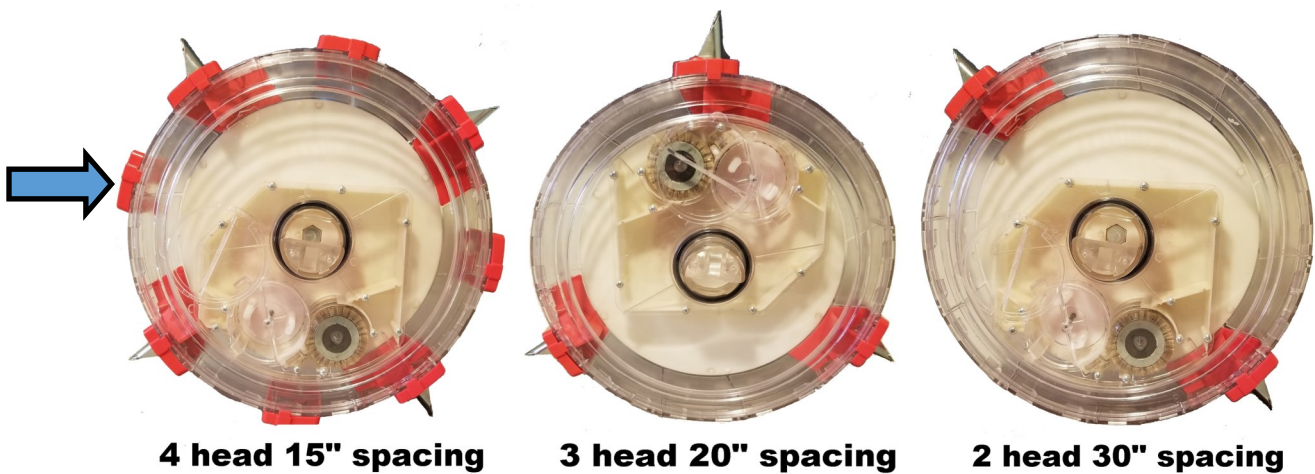


Depth Control

Install Depth Control Spacers by removing red single spacer and replace with the double spacer or the deep spacer.



Add on for 2, 3 or 4 head spacing:



When changing spacing to a **4 head**, you will need **8 of the "6" plates**.

Put 2 spacers, then a beak housing, then 2 more spacers, another beak housing, then 2 more spacers, another beak housing, 2 more spacers and then the last beak housing.

When changing spacing to a **3 head**, you will need **9 of the "6" plates**.

Put 3 spacers, then a beak housing, then 3 more spacers, another beak housing, then 3 more spacer, and then the last beak housing.

When changing spacing to a **2 head**, you will need **10 of the "6" plates**.

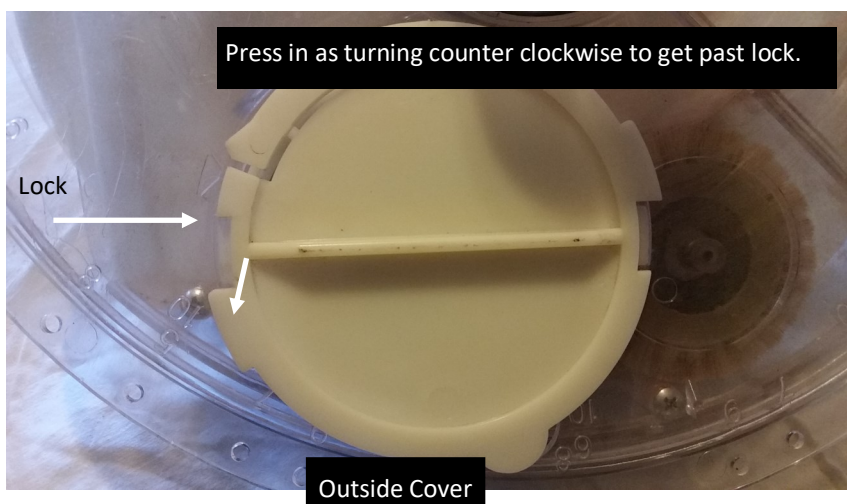
Put 5 spacers, then a beak housing, then 5 more spacers, and then the last beak housing.

As you can see in the 4 head picture above (blue arrow) we do recommend putting additional red plates on in the missing beak place, this enables the head to roll smoothly. We recommend doing this on a 5, 4, 3 and 2 head.

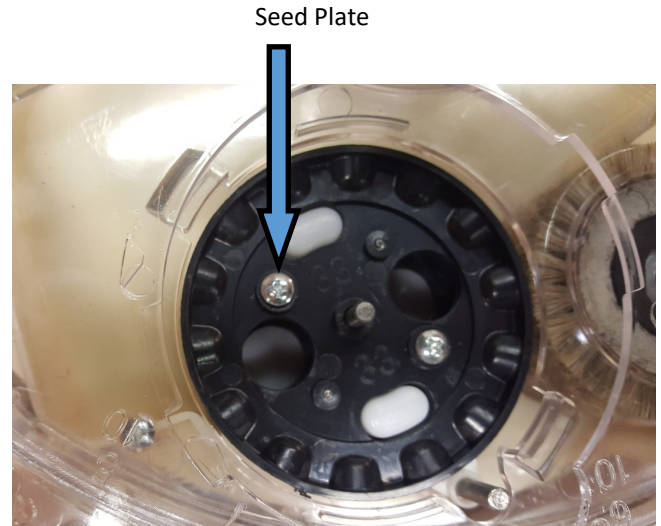
Changing Seed Plates

Step 1: Spin the hopper until the circles align.

Step 2: Turn the cover handle counter clockwise past the arrow on the clear plastic cover. Remove both the outer and inner circle covers until you are able to access the seed plates.



Step 3: Carefully remove the seed plate being sure not to lose the small plastic seed ejector if applicable. If needed remove the "O" seed plate, in order to insert a large seed plate.



Step 4: Install the new seed plate ensuring the small plastic seed ejector is in the groove if necessary.



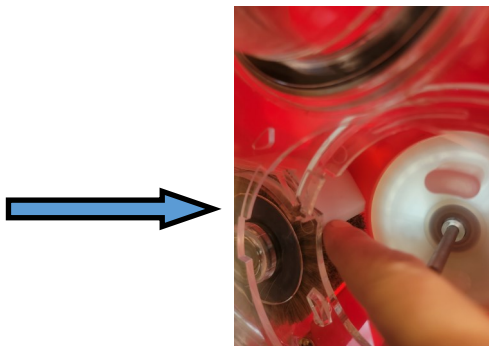
Step 5: Replace both round covers.

This is an example of a 7 cavity plate which will drop every other beak point.

Small seed insert (singulator)

For Small Seeds:

If you are using the small seed insert, make sure the correct seed plate is inside the small seed insert. You will not need the inner seed cover with this, because it has a lock on it. To change the seed plates in the small seed insert, remove the 3 screws and replace plate. Replace screws. When using these plates, always have the brush cover in place. This will keep the seeds from falling down in between the seed plate and the brush.



WARNING: Brush cover needs to be inserted when using the small seed insert

To Begin Planting

After choosing seed plate and spacing, we are ready to begin planting.

Step 1: Place seed in hopper. We do recommend using Seed Graphic to help the seeds singulate better and not stick to the plastic.

Step 2: Once seed has been placed in the hopper, it is important to carry the Polyplanter Jr. until ready to plant.

Step 3: In order to prime Polyplanter Jr., hold the Jr. and spin the head until seed is being released from the points.

Step 4: Place Jr in desired starting position, push along row using the handles. Make sure the hopper is level to planting surface to ensure proper placement of the seed.

Seed Plates

7 hole seed plates plant 1 seed per **every other** beak point

14 hole seed plates plant 1 seed per **every beak** point

28 hole seed plates plant **2 seeds per every beak** poin

Optional 3D printed Plates:

We now offer 3D printed plates to fit your seed size. Call us at 724-946-2973 to order your customized plate. .



Troubleshooting

Can't find a seed plate for odd shaped seeds (i.e. flat sized, like squash or pumpkins):

If you find that you don't have a seed plate to fit odd shaped seeds, we have found a work around. We suggest using the peanut plate (largest one) and filling the cavities and groove with Bondo, carve out a cavity enough to fit one of the desired seed. When you insert the seed plate back into the Polyplanter Jr, do not use the small plastic seed ejector.

This is an example of a 7 cavity plate which will drop every other beak.

Once filled with Bondo, carve out a cavity large enough to fit the size of the seed.



My planter is dropping too many seeds per beak:

*Seed plate is too big, try a size or 2 smaller.

My planter is not dropping seeds every beak.

*seed plate is too big, try a smaller hole plate

*you have a plate with 7 hole in it.

- seed ejector is not in the plate
- Seeds are sticking together (add graphite)
- Seeds size is extreme (very tiny to very large) and large ones are not letting holes to be filled

My planter is not poking holes in the plastic, it is just stretching:

*Plastic is not tight

*Plastic is too hot, try planting in the morning or evening as plastic stretches under heat

My seeds are planting, but my stand wasn't great.

*when planting through plastic it is better to go a little deeper then shallow, seeds get burned off in the upper layer of the soil due to high temperatures.

*Something maybe eating the seeds. Refer to local guildlines on how to remedy this.

I am changing the spacing to a 4, 3 or 2 and I cant seem to get the last 2 screws in, there is a 1/8" overlay.

*try tapping all the beak housings so that all gaps are closed, and then push down on the last beak where screws go and start a screw. It will pull the everything in alignment.

I would like to change to a 5 head, but I can't figure out how to do so.

*5 heads are tricky. You must remove all spacers and beaks, and take the last 2 screws out. So you have no screws in. Put a beak on, then a 5 head spacer and repeat until you get to the last 5 head spacer (while keeping everything lined up) . Then at the end you can screw the 5 head spacer in place. Then the beak. There is a video on line for this as it is a bit different then any other spacing.

None of those solved my problem or I still have more questions.

***** Call us because we can not fix something if we don't know there is a problem. We welcome feedback, suggestions and will work to make the planter work for you.**

<http://www.ferrisfarm.net/polyplanterJr.html>

As always, we are looking for your feedback and suggestions on making the planter better and easier to use. If you have any feedback, questions, or concerns, please contact us at **(724) 946-2973** or **jeanice@ferrisfarm.net**. You can also send text message to **724-971-0888** or pictures.

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