One-Row Pinpoint Seeder

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Materials Included:

- Seeder body
- Two drive wheels
- Two seed shafts
- Oiled ashwood handle
- Self-tapping #4 x ½ inch round-head woodscrew

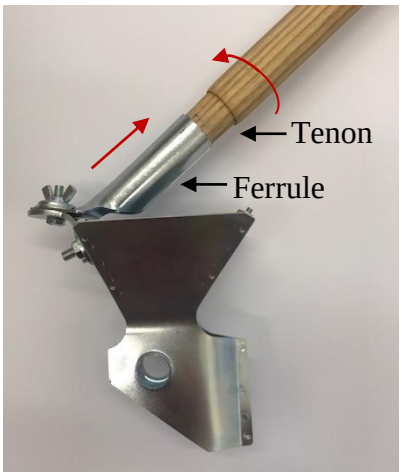


Additional Materials Needed:

- #1 Phillips screwdriver
- Round-jaw pliers
- 10mm wrench

ASSEMBLY INSTRUCTIONS

Note: *The handle for this seeder mounts in a compression type ferrule (metal ring) for a secure fit. Please follow these directions carefully below.*



1. With the handle positioned upside down and resting on the floor or table, gently insert the tapered tenon joint end of the handle into the metal ferrule of the seeder body as far as it will easily go by hand. DO NOT force the handle into the ferrule or you could damage your seeder.

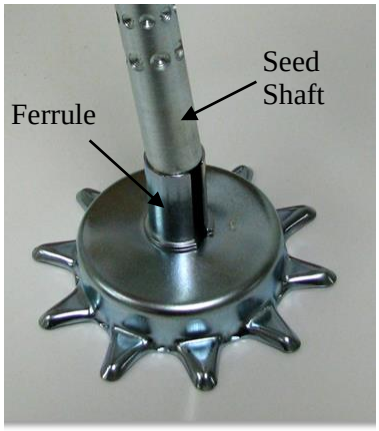
2. Push down on the seeder body while slowly rotating handle, until the tenon is fully seated in the ferrule. See right. Once seated, rotate the handle until the maker's logo is on the same side of the ferrule as the pre-drilled screw hole.



3. Using a #1 Phillips screwdriver, secure the seeder body onto the handle with the #4 x ½-inch wood screw provided. See left.

4. Insert the desired seeder shaft into the ferrule of one wheel at a slight angle so the compression ferrule expands to receive the shaft. See right.

5. Adjust the seeder body so that is in-line with the handle and tighten the wingnut to secure it in place using a 10mm wrench.



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5. Slide the shaft into the seeder body so that the desired seed hole size is centered inside of the seed hopper. See right.



6. Once the seed shaft is in place, repeat step 4 to install the second wheel onto the opposite end of the shaft. Leave a slight gap between the wheel ferrules and the body of the seeder so the wheels and axle will turn freely without friction.



7. For proper operation, the wheel ferrules must grip the shaft firmly without slipping. If wheel ferrules do not grip tightly enough, they may be adjusted by gently compressing with a pair of round-jaw pliers until the ferrule hole becomes slightly smaller than the shaft. See left. **Be careful to not over-compress**.



8. The two drive wheels on either side of the seeder should be turned so that the teeth match up with one another. See right. If the teeth do not line up, the seeder may work inefficiently in the field.

SEEDER OPERATION

Bed Preparation

The One-Row Pinpoint Seeder is designed to be used on a well-prepared seedbed. It is necessary to prepare your growing area so that the soil is relatively smooth, level, and free of debris and old crop residues for the seeder to function properly. It is also helpful to firm your seedbed before using a precision seeder such as the One-Row; this can be accomplished with the Seedbed Roller or similar bed preparation tool.

Choosing a Hole Size

Ideally, you want to choose a hole size where your seed sits loosely in the bottom of the hole, fully below the surface of the seed shaft. It is normal for more than one seed to drop per hole if the seed is flat or oblong in shape, whereas round seed is easier to singulate. Choosing the correct hole size for each seed variety ensures that your seed will not crack or jam while the seeder is in use.

Crop Recommendations

The One-Row Pinpoint Seeder comes with two shafts, offering a total of six seed hole sizes, for seeding a variety of different crops. Use the following chart as a general guide to find the hole size for sowing your desired seed.

Note: *A certain amount of experimentation should be expected to find the appropriate hole size for a crop. Please take the time to find the hole size that works best for your desired seed variety.*

	Hole Width	# Holes on Shaft	Seed Spacing (approx.)	Recommended Crops
Shaft A				
	3mm	9	1 inch	Arugula, Turnips, Basil
	3.5mm	9	1 inch	Kale, Asian Greens, Ovation Greens Mix
	4mm	9	1 inch	Carrots, Radish (small), Mache, Bunching Onion, Parsley
Shaft B				
	5mm	9	1 inch	Lettuce, Radish (large), Chicory, Chives, Dill
	7mm	7	1 ¼ inch	Spinach, Beets (small), Cilantro, Basil (pelleted), Swiss Chard, Lettuce (pelleted)
	10mm	4	2 ¼ inch	Beets (large)

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Seeding

The One-Row Pinpoint Seeder is designed to be pulled or pushed, depending on the handle position. It can be helpful to run a line along one edge of the bed to follow to keep your crop rows straight. From there, you can line up the wheels for your second pass with the seed furrows from your first pass, and so on.

Adjustments

Seeding Rate: Ideally, the seeding rate will be one seed per hole; However, this can be adjusted slightly by tightening or loosening a knurled nut to move the brush up or down into the seeder body. See right. Setting the brush slightly higher, away from the seed shaft, will allow seeds to fall more freely. This can be helpful if you are sowing seed slightly bigger than the hole.

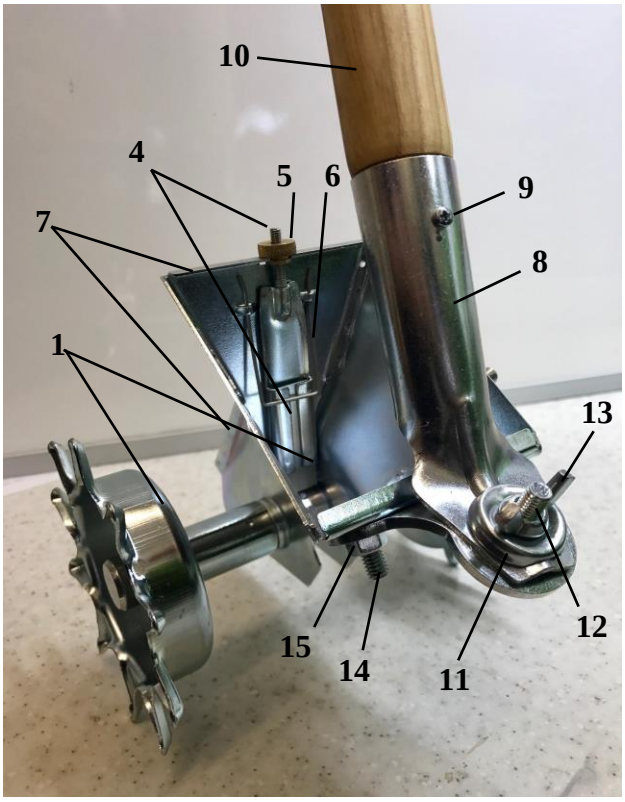




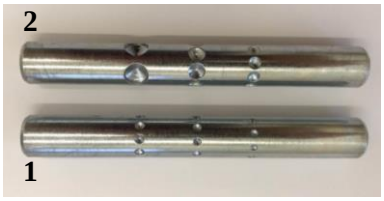
Seeding Depth: The seeding depth is determined by the angle at which you hold the handle in relation to the ground. Holding the handle lower to the ground will sow seeds deeper in the soil and raising the handle will sow seeds closer to the soil surface. This will take some practice to consistently sow at the same depth.

Seeder Angle: The angle of the seeder body in relation to the handle can be adjusted so that the seeder can be pushed or pulled, and so the user can easily empty seed from the hopper. Simply loosen the wingnut on the top of the seeder body (see left), move the hopper to your desired position, and tighten using a 10mm wrench.

REPLACEMENT PARTS



1.	9284.010	Seed Shaft A (smaller holes)
2.	9284.020	Seed Shaft B (larger holes)
3.	9284.200	Wheel
4.	9284.040	Brush
5.	9284.050	Knurl Brush Adjustment Nut
6.	9284.060	Brush Clamp
7.	9284.070	Seeder Body
8.	9284.080	Handle Ferrule
9.	n/a	#4 x ½ inch Set Screw
10.	9281	Oiled Ashwood Handle
11.	9284.099	Concave Washer
12.	n/a	M6- 1.0 x 20mm Hex Bolt
13.	n/a	M6- 1.0 Wing Nut
14.	n/a	M6- 1.0 x 16mm Hex Bolt
15.	n/a	10mm Hex Nut



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