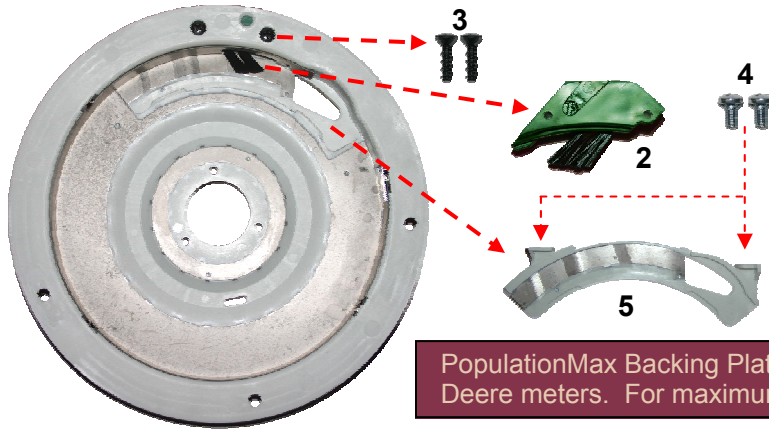


POPULATIONMAX[®] Backing Plate

Installation Instructions

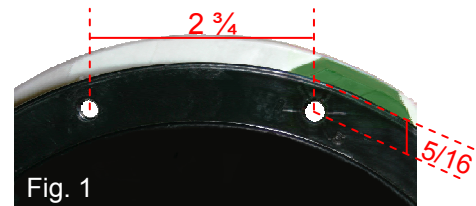
Parts List



1. PopulationMax Backing Plate, (342103)
2. Adjustable Brush, (343052) (1)
3. Brush Screws, #10 x 3/4 hi-lo (2)
4. Insert Screws, #8-32 x 5/16 pan head (2)
5. A - Insert, (1) (342110)

PopulationMax Backing Plates will improve performance with Kinze & John Deere meters. For maximum performance use with Precision Finger Sets.

- Step 1** Remove the three screws that hold the backing plate to the bearing housing and remove the existing backing plate.
 - Step 2** Check for debris between bearing and belt housing. Clean out if needed with air nozzle. Make sure bearing fits snugly against housing and does not wobble on debris or defects around weld studs.
 - Step 3** Carefully align the PopulationMax backing plate over the bearing housing, making sure that the exit hole is positioned over the hole in the belt housing. Insert the three center screws and uniformly tighten the Population Max™ backing plate to the bearing housing. Make sure the backing plate is well secured to the bearing housing.
 - Step 4** Your PopulationMax plate has an "A" insert already installed. There are three different inserts available – "A", "B" and "C". The inserts are marked on the back side. The "A" insert is the insert of choice. "B" or "C" inserts are used for unusual seed or specialty crops. Consult with a MeterMax[®] representative for more specific recommendations.
 - Step 5** Drill 9/32" hole in belt housing flange directly across from brush t-slot for adjusting lever or screwdriver access. (See Figure 1 for details)
 - Step 6** Reinstall finger set. (Refer to your finger set installation instructions)
- CAUTION!** → Check brush setting after meter is installed in case T- Handle was moved.
- Step 7** For optimum performance test your seed sizes on a MeterMax[®] Test Stand for proper brush setting.



Annual Maintenance

PopulationMax Backing Plates should be inspected and maintained annually.

- 1) Remove black plastic cover and clean out debris from meter.
- 2) Wipe seed treatment build up from fingers and backing plate with damp cloth.
- 3) Inspect backing plate and replace if wear is apparent on the action sights to the left of the brush.
- 4) Inspect brush and replace annually or every 75-100 acres per row. (Brush part # 343040)
- 5) Test meters on MeterMax[®] Test Stand to insure good performance and proper brush setting.

Note: Do not use solvent-based lubricants such as WD-40 on finger meters.

POPULATIONMAX[®] Backing Plate

Optional Inserts

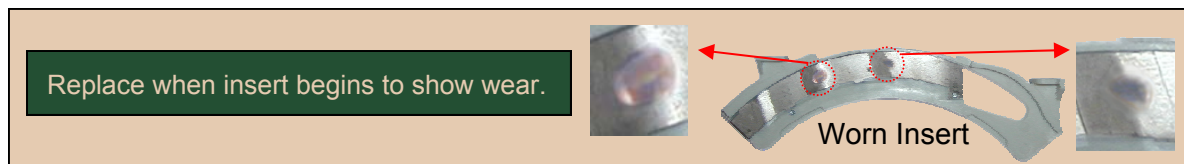
The PopulationMax Backing plates come with a replaceable A-Insert. We have 2 other inserts to choose from.

- A - Insert (342110) : For all corn
- B - Insert (342107) : For specialty seed
- C - Insert (342108) : For sunflowers

Replacing Inserts

PopulationMax features interchangeable inserts. Follow these steps to replace inserts:

- 1) Remove the brush screws and brush. Remove insert screws and gently pull the insert out.
- 2) Select the appropriate insert and carefully slide into the window. The insert may catch on a finger or two and it may be necessary to lift the fingers up with a small screwdriver or to rotate the fingers backward while sliding the insert in. The insert will slide in without excessive force.
- 3) Make sure the insert slides in all the way and firmly locks in place.
- 4) Secure the insert to the backing plate by fastening the two screws through the insert.
- 5) Re-install the brush and screws.



Troubleshooting Guide

Problem	Solution
Finger does not follow contours of action sight or catches on exit hole	<ol style="list-style-type: none"> 1 ► Check for damaged or improperly assembled springs & fingers. 2 ► Cam is not engaged on bearing. 3 ► Fingerset is too tight.
Finger set tightens up when running.	<ol style="list-style-type: none"> 1 ► Housing may be out of tolerance. <ul style="list-style-type: none"> - Lay a 6" straight edge across the finger contact surfaces on the PopulationMax while installed on the belt housing. - If the center ring is higher than the outside ring, the belt housing is flawed and needs to be replaced.
Finger set torque is uneven and alternates from tight to loose.	<ol style="list-style-type: none"> 1 ► Backing plate is not secured tightly to belt housing. 2 ► Belt housing or finger holder is warped. 3 ► Drive wheel is warped or belt is rubbing in belt housing. 4 ► Bearing is not seated properly on belt housing.
Meter does not deliver correct population.	<ol style="list-style-type: none"> 1 ► Check for debris or build up in meter. 2 ► Check nut tension of fingerset. 3 ► Adjust brush setting for seed size. 4 ► Add graphite or reduce graphite.

Always pay attention to your seed monitor, operating manual, and the amount or seed you are planting compared to your expectations. **Always investigate abnormalities!**

Warranty: Precision Planting Inc. warrants this product to be free from defects in material or workmanship during the first year of service. Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that in our judgment shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from the date of failure – routed through the dealer from whom the purchase was made. Shipping charges prepaid.

Precision Planting shall have no obligation or liability of any kind on account of any of its equipment and shall not be liable for special or consequential damages. This warranty does not extend to loss of crops, loss because of planting delays or any expense or loss incurred for labor, supplies, substitute machinery, rental or for any other reason. Precision Planting makes no other warranty, express or implied.

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