

PRECISIONMETER™

Parts List

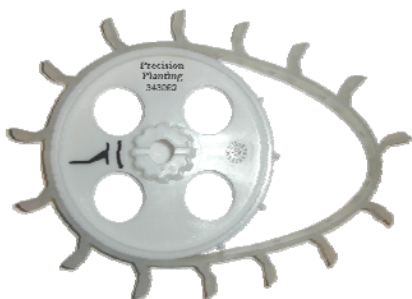
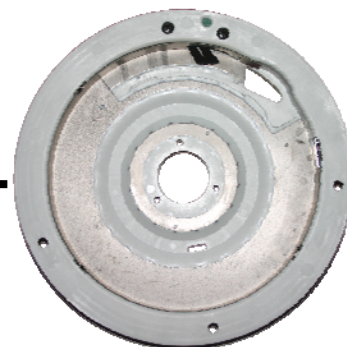


Precision Finger Set

The **Precision Finger Set** provides an improved finger along with a sturdier finger holder to accurately plant a wide range of seed sizes.

Population Max™ Backing Plate

The **Population Max** backing plate is equipped with an “A” insert. There are two other inserts that can be used. Before changing to a different insert, please consult with a MeterMax® representative for a recommendation.



SureFire® Belt

The **SureFire Belt** assures every seed is delivered to the center of the seed tube to improve spacing during seed delivery.



Adjustable Brush

The **Adjustable Brush** provides additional flexibility to accommodate a wide range of seed sizes. Use the “T” handle that is attached to rotate the brush into position. Follow these general guidelines to adjust the brush position to your seed size and shape. Adjusting the brush to match seed size is simple adjust the brush counterclockwise for larger seed and clockwise for smaller seed.



Skip Stop™

The **Skip Stop** helps prevent skips by using a soft rubber pad to absorb the force of the seed leaving the finger.



Questions? Check the website: www.precisionplanting.com or call us at 309-925-5050.

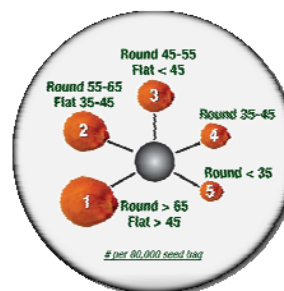
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Operating tips

- 1) Test on MeterMax Ultra® Test Stand for maximum performance and correct brush setting with your seed.
- 2) Use graphite at a rate of 1 tsp. with every fourth unit of glossy seed and 1 tsp. with every unit of non-glossy seed. Make sure to stir the graphite into the seed.
- 3) Optimum planting speed is 4 ½ to 5 ½ miles per hour. Excess speed results in poor spacing performance.
- 4) Check bristles on brush occasionally for wear.
- 5) Be cautious in using seed treatments and additives. They can cause meter performance problems, premature wear, and increased debris build up on meter parts.
- 6) Check brush lever and adjust as necessary

Adjustable Brush Settings

Place near meter for reference when changing seed size



The Adjustable Brush is made up so the #3 position is equivalent to a standard brush. This position will work well for medium sized seeds. For larger or smaller seed, the lever can be adjusted by rotating left or right to fine tune the meter's performance. See chart or sticker for details on where your brush should be set.

If meter is under-planting adjust left. ←
If meter is over-planting adjust right. →

Caution: If you choose not to adjust the brush according to seed size and shape your stand may be less accurate.

Annual Maintenance

Precision Finger Meters™ 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 springs and fingers for damage or wear.
 - a) The primary wear spot on a finger is the inner heel, where it rubs on the backing plate.
 - b) Replace finger set if flat spot exceeds 1/16" across
- 4) Inspect backing plate and replace if insert wear is apparent on the action sights to the left of brush.
- 5) Inspect brush and replace annually or every 75-100 acres per row. (Brush part # 343052)
 - a) Only use a Precision Planting Adjustable Brush or maroon colored brush in Precision Meters, other brushes are too stiff and will increase skips.
- 6) Inspect SkipStop by looking through exit hole in backing plate for trapped debris and wear.
- 7) Examine belt housing for dents or rough edges at bottom of meter.
- 8) Check each flight of belt for damage from obstructions or rodents.
- 9) Replace belt if it has damaged flights, feels inflexible or is more than 3 years old..
- 10) Check plastic cover for damage, cracking, or worn edge.
- 11) Test meters on MeterMax Ultra® Test Stand to insure good performance and proper brush setting.

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

Storage

- 1) Before storing meters, remove all seed and blow residue and debris out of meter.
- 2) Rotate meter so all flights are hidden within belt housing to protect them from damage, this will also position the fingers so they are not damaging the brush.
- 3) Do not store meters so that seeds can lay on SkipStop.
- 4) Store in dry, rodent free container.

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Troubleshooting Guide

Problem	Solution
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.
Poor spacing of seed.	<ol style="list-style-type: none"> 1 ► Verify SureFire belt is installed in the right direction. 2 ► Make sure seed hopper is correctly aligned onto row unit. 3 ► Check for debris in meter or belt. 4 ► Check for obstruction in seed tube. 5 ► Check hex shaft drive for erratic or rough rotation caused by bad bearings, worn chains or sprockets, bent shafts or misaligned shafts.
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 PopMax 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.
Finger does not follow contours of action sight	<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.
SureFire Belt will not center in belt housing.	<ol style="list-style-type: none"> 1 ► Drive wheel wobbles on shaft. 2 ► Belt housing is warped. 3 ► Belt is warped and does not track straight.
Finger catches when rotated toward exit hole.	<ol style="list-style-type: none"> 1 ► Cam is not engaged on bearing. 2 ► Check for damaged finger.
Belt rubs SkipStop pad.	<ol style="list-style-type: none"> 1 ► Make sure pad is laying flat in plastic housing. 2 ► Pad should be glued on two sides and bottom edge. 3 ► Make sure edges of pad are trapped by backing plate.
SkipStop is "bubbled up" in middle, causing belt to rub on pad.	<ol style="list-style-type: none"> 1 ► Carefully lift top edge and release trapped air from behind pad. 2 ► If bubble does not disappear, replace SkipStop pad.
SkipStop has a recessed pocket where seed hits.	<ol style="list-style-type: none"> 1 ► If recess is deeper than seed, replace SkipStop.

Always pay attention to your seed monitor, operating manual, and the amount of 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. The use of seedbox treatments voids this warranty. 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.