

KINZE®



2018 OEM & AFTERMARKET PARTS

Maximum crop yield at harvest begins with proactive pre-season planter maintenance. The Kinze OEM / Aftermarket Parts brochure has everything you need to increase the accuracy, productivity, and efficiency of your planter. Starting at the hitch pin and running back to the closing wheels, products are available to tune your machine for your farming practices or management style.

Yield data supports that pre-season planter maintenance is an investment with a good return. Not only is the planter ready to plant when field conditions are right, but down time is reduced and field efficiency is improved. With worn parts replaced and appropriate attachments installed, seed depth, seed spacing, and seed-to-soil contact is maintained for optimum plant germination, emergence, and maturity.

While doing the pre-season planter maintenance and tune up, it is also an excellent time to get all seed meters tested for top performance. To understand the importance of meter accuracy and the impact of Coefficient of Variation, refer to the Kinze blog article entitled “Measuring Seed Meter Accuracy” at www.kinze.com. To get your meters tested on the Kinze Seed Meter Test Stand, contact your Kinze dealer and schedule time to test them.

Lastly, don't forget to check your planter's monitors and control modules for the latest approved software. Technology is a necessary part of precision agriculture and must be maintained, just like the nuts and bolts that make up your planter, in order to maintain functionality. Your local Kinze dealer can advise you on appropriate updates.

For more information, additional care tips and checklists, refer to the Planter Operator's Manual or contact your Kinze dealer.

Do planter maintenance early and get the most out of your repair and update dollars!



TABLE OF CONTENTS

HITCH & TONGUE.....	1
CLEVIS HITCHES, SAFETY CHAINS	
FRAME & TRANSPORT.....	2
ROW MARKER REPLACEMENT PARTS	
DRIVE CHAINS.....	3
ELECTRONICS	4
SEED TUBES, GPS ANTENNA	
FERTILIZER	5
SEED METERS	
VACUUM METERS	6
BRUSH-TYPE METERS.....	8
FINGER PICK-UP METERS	11
ROW UNITS	12
COULTER BLADES	12
RESIDUE WHEELS	13
PARALLEL ARMS.....	13
SPRINGS	14
ROW UNIT REBUILD KITS.....	15
DISC OPENER BLADES.....	16
GAUGE WHEELS.....	18
SEED FIRMERS	19
REBOUNDERS	20
CLOSING WHEELS	21

CONTINUED

TABLE OF CONTENTS (CONT'D)

LUBRICANTS	24
SERVICE TOOLS.....	25
FIELD CHECK SEED POPULATION	27
ESTIMATING CROP POPULATION.....	27

CLEVIS HITCHES



A wide variety of options to fit multiple tractor/hitch pin requirements

PART NUMBER	SINGLE/ DOUBLE	PIN SIZE	PLANTER
GB0237	Single	1-3/4"	3600
GB0156	Double	1-5/8"	3000, 3200, 3500
GB0181	Double	1-1/8"	3000, 3200, 3500
GB0292	Single	2"	3600
GB0361	Single Swivel	2.5"	3700, 4900

TRANSPORT SAFETY CHAINS



Required for safety in the event of hitch or hitch pin failure

PART NUMBER	PIN SIZE	PLANTER
G9566X	3/8"	3000, 3200, 3500
G9567X	1/2"	3600
G9569X	1/2"	3660
G7786X	5/8"	3700, 4900

- Includes safety chain with hook, (1) hex head cap screw, (1) lock nut, (1) washer

SAFETY CHAIN REPAIR KIT



Part No. G1K413

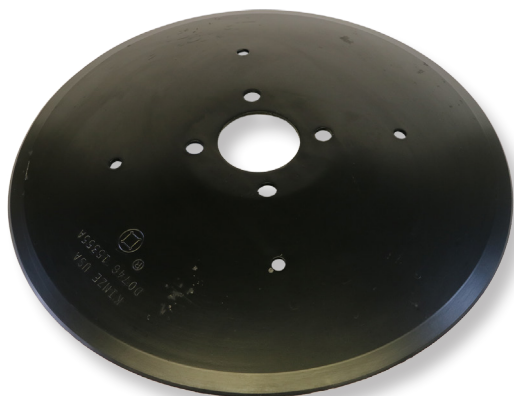
Repairs the hook on all safety chains

- Includes (1) hook, (1) flat washer, (1) latch pin, (1) safety latch, (1) spring, (1) retaining ring



- Check condition of safety chains annually.

ROW MARKER REPLACEMENT PARTS



ROW MARKER BLADE

Part No. GD0746

16" diameter blade -- standard for most field conditions



NOTCHED ROW MARKER BLADE

Part No. GD10283

16" diameter notched blade -- use with heavy residue or hard soil conditions



ROW MARKER BEARING SHIELD KIT

Part No. G1K523

Protects marker disc bearing for longer life

- Includes: (4) shields, (4) allen head bolts and (4) nuts



INNER ROW MARKER BEARING

Part No. GA0245

Inner bearing for row marker



OUTER ROW MARKER BEARING

Part No. GA0257

Outer bearing for row marker

DRIVE CHAINS

Drive chains for various applications on the planter: contact drive, seed rate transmission, meter drive, granular chemical drive.



PART NUMBER	CHAIN NO.	PITCH
G3303-16	No. 41	16 Pitch
G3303-34	No. 41	34 Pitch
G3303-41	No. 41	41 Pitch
G3303-44	No. 41	44 Pitch
G3303-78	No. 41	78 Pitch
G3303-88	No. 41	88 Pitch
G3303-98*	No. 41	98 Pitch
G3303-103	No. 41	103 Pitch
G3303-108*	No. 41	108 Pitch
G3303-114*	No. 41	114 Pitch
G3303-124	No. 41	124 Pitch

*PN available in a Multi-Pak (MPP)



Drive chains require proper lubrication to prevent premature failure and excessive wear of the drive and driven sprockets. Lack of lubrication will allow the chain to rust. Planter performance may then be impacted when the chain binds or jumps around on the sprockets, which could affect seed population and spacing.

To prevent buildup of dirt and grime, it is recommended to use dry chain lubrication. Dry lubrication penetrates the chain and then dries, leaving a lubrication film. Lubrication fills the gaps that would otherwise be filled by dirt and grime.

GPS 6000 ANTENNA PACKAGE

Part No. G9421X

GPS receiver for all precision planting applications

- Includes GPS 6000 antenna, antenna bracket and antenna cable

Part No. GA21151 GPS 6000 Antenna Only

Part No. GA21152 GPS 6000 Antenna Bracket

Part No. GA20903 GPS 6000 Antenna Cable



SEED TUBE WITH SENSOR REFERENCE CHART

PART NUMBER	DESCRIPTION	PLANTER
GA21515	2006 - Present	3000 Series
GA9847	2000 - 2005	3000 Series
GA21516	Mechanical drive with finger pick-up/brush meter	4000 Series
GA20915	Mechanical drive with vacuum meter	4000 Series
GA21517	Advanced ISOBUS electric drive	4000 Series



FERTILIZER KNIFE

Part No. GB0322 (RH)

Part No. GB0323 (LH)

For use with the notched single disc opener

- 3000 Series



LIQUID FERTILIZER DROP TUBE

Part No. GA12109 (RH)

Part No. GA12108 (LH)

For use with the notched single disc opener

- 3000 Series



CHECK VALVE

Part No. GA15416

Prevents siphoning of fertilizer from the supply hose

- 3000 Series



DOUBLE ROW BEARING

Part No. GA8603* (notched)

For use with all row unit mounted coulter blades and notched fertilizer blade



FERTILIZER OPENER OUTER BEARING

Part No. GA4287 (heavy duty)

Tapered outer bearing for 3000 Series Heavy Duty Opener



FERTILIZER OPENER INNER BEARING

Part No. GA0237 (heavy duty)

Tapered inner bearing for 3000 Series Heavy Duty Opener

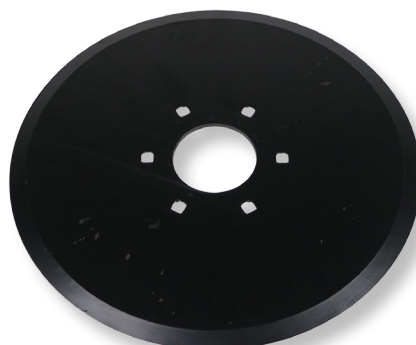


NOTCHED DISC BLADE

Part No. GD12676* - 16³/₄"

Standard notched single disc opener blade for 3000 Series fertilizer systems

**PN available in a Multi-Pak (MPP)*



HEAVY DUTY DISC BLADE

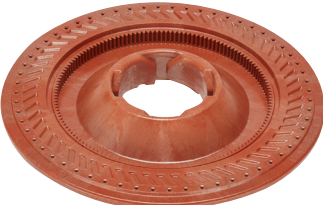
Part No. GD7900* - 18"

Part No. GD8247 - 20"

Heavy duty disc opener blade for 3000 Series fertilizer systems

SEED METERS

VACUUM METER SEED DISCS

DISC	PART NUMBER	SEED	NO. OF CELLS	COLOR
	G9040X*	Corn	40 Cells	Light Blue
	G9041X*	Soybean	120 Cells	Black
	G9308X	Low Rate Soybean & Edible Beans (Pinto, Great Northern)	60 Cells	Dark Blue
	G9043X	Sugarbeet/Milo	60 Cells	Dark Orange
	G9042X	Sunflower (2, 3, 4) & Small Sweet Corn**	40 Cells	Gray
	G9272X	Cotton	60 Cells	Green
	G9273X	Edible Beans (Black Turtle, Navy) & Popcorn	60 Cells	Brown

Note: Ejector Arm is included with each disc

**PN available in a Multi-Pak*

****Sweet corn should only be planted with planters equipped with row unit hoppers**

VACUUM METER REPLACEMENT PARTS



SINGULATOR ASSEMBLY

Part No. GA24752

SINGULATOR GUIDE

Part No. GA24676

INNER BLADE

Part No. GB0921

OUTER BLADE

Part No. GB0958



LIP SEAL

Part No. GB0676

VACUUM METER ASSEMBLY

Part No. G9903X (Pull Row)

Part No. G9897X (Push Row)

Assemblies include: vacuum meter without motor

Part No. G9899X (Electric Drive)

Assembly includes: vacuum meter and electric motor



BRUSH ASSEMBLY

Part No. GA20746



Life expectancy of Vacuum Meter wear parts:

- Singulator: 600 to 900 acres per row
- Seed Discs: 600 to 900 acres per row
- Lip Seal: 600 to 900 acres per row
- Ejector: 250 to 500 acres per row

Note: Ejector wheel color matches the corresponding seed disc color



EJECTOR ARM

Part No. GA19112 (Corn)

Part No. GA19113 (Soybean)

Part No. GA19114 (Sunflower)

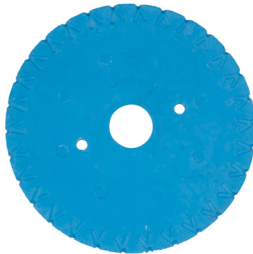
Part No. GA19115 (Beets/Milo)

Part No. GA20346 (Low-Rate soybean, Edible Beans & Popcorn) Low-Rate Soybean)

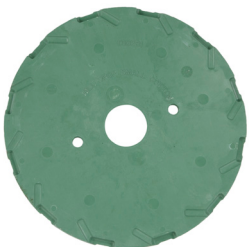
- Replacement compression spring GD25147

SEED METERS

BRUSH-TYPE METER SEED DISCS

DISC	PART NUMBER	SEED	NO. OF CELLS	SEEDS/LB	COLOR
	GA5794*	Soybean	60 Cells	2,200 to 4,000	Black
	GA6184	Soybean	48 Cells	1,400 to 2,200	Dark Blue
	GA5982	Milo/Grain Sorghum	30 Cells	14,000 to 20,000	Red
	GA6187	Milo/Grain Sorghum	30 Cells	10,000 to 16,000	Light Blue
	GA5795	Milo/Grain Sorghum	60 Cells	12,000 to 18,000	Dark Red
	GA6633	Milo/Grain Sorghum	60 Cells	10,000 to 14,000	Yellow

BRUSH-TYPE METER SEED DISCS

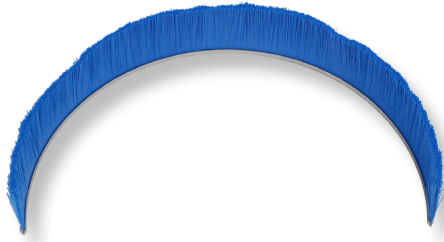
DISC	PART NUMBER	SEED	NO. OF CELLS	SEEDS/LB	COLOR
	GA5796	Cotton	30 Cells	4,200 to 5,200	White
	GA6168	Cotton	36 Cells	3,800 to 4,400	Tan
	GA6478	Cotton	48 Cells	4,200 to 5,200	Light Green
	GA6182	Cotton	12 Cells	4,000 to 5,200	Brown
	GA7255	Cotton	12 Cells	5,000 to 6,200	Dark Green

*PN available in a Multi-Pak (MPP)



- Life expectancy of brush meter seed discs are 100 to 200 acres per row.

BRUSH-TYPE METER REPLACEMENT PARTS



UPPER BRUSH

Part No. GA5699**



LOWER BRUSH

Part No. GA5834**



STAINLESS STEEL WEAR BAND

Part No. GD8778*



BEARING

Part No. GA5698



Life expectancy of Brush Meter wear parts:

- Upper Brush: 120 to 400 acres per row
- Lower Brush: 240 to 800 acres per row
- Stainless Steel Wear Band: 240 to 800 acres per row

*PN available in a Multi-Pak (MPP)

**PN available in Case Lot Quantity (CLQ)

FINGER PICK-UP METER REPLACEMENT PARTS

**FINGER PICK-UP METER ASSEMBLY - CORN****Part No. GR1848*****FINGER PICK-UP METER ASSEMBLY - SUNFLOWER****Part No. GR2154***

Assemblies include: 12 fingers, spring, cam, finger holder, wave washer

**DRIVE BELT SPROCKET****Part No. GD1041****CARRIER PLATE****Part No. GR1569 (Corn)*****Part No. GR0664 (Sunflower)**

- Includes brush and screw

**FINGER****Part No. GD18704****BRUSH****Part No. GA2020*****SPRING****Part No. GD19790*****BEARING****Part No. GA2019****SEED BELT****Part No. GD11286***

Life expectancy of Finger Pick-Up wear parts:

- Brush: 100 to 200 acres per row
- Carrier Plate: 120 to 400 acres per row
- Fingers & Springs: 240 to 800 acres per row
- Drive Belt Sprocket: 240 to 800 acres per row
- Seed Belt, Belt Housing & Belt Housing Cover should be inspected for damage or cracks annually

*PN available in a Multi-Pak (MPP)

COULTER BLADE OPTIONS

Coulter blades prepare the soil in front of the double disc opener blades



PART NUMBER	DIAMETER	DESIGN	NO. OF BOLTS	SOIL CONDITIONS
GD7802	16"	1", 8 Flute	6	hard/heavy residue
GD9255	16"	3/4", 13 Flute	6	moderate no-till
GD7803*	16"	1", 8 Flute	4	hard/heavy residue
GD9254*	16"	3/4", 13 Flute	4	moderate no-till
GD7804*	16"	Rippled	4	Light no-till to conventional till

*PN available in a Multi-Pak (MPP)



- Replace Coulter Blades when worn to 14 1/2" or less.



DOUBLE ROW BEARING

Part No. GA8603*

For use with all row unit mounted coulter blades and notched fertilizer blade (not used with GD34559 Saber Tooth Coulter Blade)

*PN available in a Multi-Pak (MPP)



PRESCRIPTION TILLAGE TECHNOLOGY SABER TOOTH COULTER BLADE

Part No. GD34559 - 15.8" Diameter

Saber Tooth uses concentrated friction in forward motion to cut through heavy residue vs the "pinch" cut theory. The protruding tooth grabs and cuts through deep, wet, GMO, high yielding residue. The blades feature multiple insert (protruding pieces out of the blade perimeter which help drive the blade, lessons sidewall smearing, fracture's the soil profile and lifts the soil structure to granulate vs clodding the soil) configurations to ensure performance based on customer needs, soil conditions and management practices. For use in hard soil/heavy residue.

Includes disc blade and double heavy duty bearing

RESIDUE WHEEL OPTIONS



RESIDUE WHEEL

Part No. GB0387

Removes residue/trash from ahead of the double disc openers



RESIDUE WHEEL ASSEMBLY

Part No. GA12235 (LH)

Part No. GA12236 (RH)

Includes: residue wheel, bearing and hub.



ATTACHMENT BUSHING

Part No. GB0383

Dual residue wheel arm bushing

PARALLEL ARM



UPPER PARALLEL ARM 3000 SERIES

Part No. GD11422 (Pull Row)

Part No. GA11969 (Push Row)



LOWER PARALLEL ARM 3000 SERIES

Part No. GA24693 (Pull Row)

Part No. GA5787 (Push Row)



PARALLEL ARM BUSHING

Part No. GB0218*

**PN available in a Multi-Pak (MPP)*



UPPER PARALLEL ARM 4000 SERIES

Part No. GD25070



LOWER PARALLEL ARM 4000 SERIES

Part No. GD25069



- Check the Parallel Arm Bushing for excessive wear
- Torque bolts to 130 ft-lbs

ROW UNITS

PARALLEL ARM (CONT'D)

Over time, row units may become slack due to worn parallel arm hardware components. These parallel hardware kits contain the necessary components to help remove excess movement in the row unit parallel arms. Excessive movement in the parallel arms can impact proper seed spacing in the field.



PARALLEL ARM, HARDWARE KIT (3000 SERIES)

Part No. G1K687MPP

Includes: 8 each of the required bolts, washers, bushings and lock nuts



PARALLEL ARM, HARDWARE KIT (4000 SERIES)

Part No. G1K688MPP

Includes: 8 each of the required bolts, washers and bushings

SPRINGS



DOWN PRESSURE SPRINGS

Part No. GD8249* (Standard)

Part No. GD21337* (Heavy Duty)

- Standard spring for moderate field conditions
- Heavy duty spring for severe no-till conditions, increasing row unit down pressure by 25% over standard spring

**PN available in a Multi-Pak (MPP)*

ROW UNIT REBUILD KITS

**4000 SERIES ROW UNIT REBUILD KIT****Part No. G1K689**

Includes: LH & RH disc scrapers, seed tube guard scraper, (2) opener disc blade assemblies

**3000 SERIES ROW UNIT REBUILD KIT****Part No. G1K675**

Includes: No. 41 126 pitch chain, LH & RH disc scrapers, seed tube guard scraper, (2) opener disc blade assemblies

DISC OPENER BLADES



STANDARD DISC OPENER BLADE & BEARING

Part No. GA8324*

Disc blades form the true “V” seed trench

- Includes disc blade, hub and bearing

STANDARD DISC OPENER BLADE ONLY

Part No. GD11306

Replacement standard disc opener blade less hub and bearing



- Shim standard disc opener blade to have approximately 1" +/- 1/2" contact
- Replace standard disc opener blade at 14 1/2" or less



PRESCRIPTION TILLAGE TECHNOLOGY
DISC OPENER BLADES

Saber Tooth Planter (STP) opener blades unique tooth design eliminate the need for leading no-till coulters and to facilitate closing of the seed trench. They are designed to operate in challenging soil, residue and climate conditions. These furrow opener blades create optimal seeding conditions with its agronomic geometric tooth design by; rotation and cutting action, decreased sidewall and furrow compaction and granulation of moist soil into the furrow by increased soil flow, achieving maximum soil to seed contact.

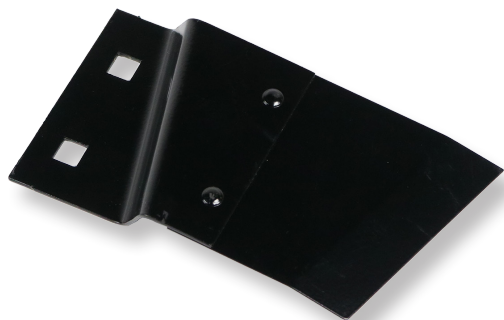
Each row unit requires a Left and Right blade. The left hand side of the planter should have the 15" on the left and 14.75" on the right. The right hand side of the planter should have the 15" on the right and 14.75" on the left.

PART NUMBER	SIZE	LEFT/RIGHT
GD34555	14.75"	Left
GD34556	14.75"	Right
GD34557	15"	Left
GD34558	15"	Right

PN includes disc blade and double heavy duty bearing

*PN available in a Multi-Pak (MPP)

DISC OPENER BLADES (CONT'D)



DISC SCRAPER

Part No. GA2012R* (RH)

Part No. GA2012L* (LH)

Removes build up soil from outside of double disc opener blades

**PN available in a Multi-Pak (MPP)*



SEED TUBE GUARD/INNER SCRAPER 3000 SERIES

Part No. GB0301

Protects the seed tube and sensor while removing soil build up from the inside of the double disc opener blades on a 3000 Series Row Unit



SEED TUBE GUARD/INNER SCRAPER 4000 SERIES

Part No. GB0504

Protects the seed tube and sensor while removing soil build up from the inside of the double disc opener blades on a 4000 Series Row Unit



PRO MAGS CARBIDE OPENER BLADE SCRAPER

Part No. GA24996

Carbide radial opener blade scraper from Pro Mags (single bearing openers only)

For the farmer looking for the ultimate performance in opening disc scraper technology, the Pro Mags® Universal Scraper is the perfect addition to the Pro Mags® gauge wheel.

The angled scraper's design forces mud, stubble, and other field refuse away from the opening disk and out of the internal side of the gauge wheels preventing soil buildup on seed furrows.

The Pro Mags® universal scraper is mounted to the axle of the opening disc giving the farmer freedom from frame-mounted, brand specific scrapers. The radial design means the farmer can adjust the scraper blade to make contact anywhere along the edge of the opening disc.



- Replace Inner Scraper when worn to 5/8" or less.

GAUGE WHEELS



GAUGE WHEEL COMPLETE - 4000 SERIES

Part No. GA16333

For proper planting depth and to firm the soil next to the seed trench



GAUGE WHEEL COMPLETE - 3000 SERIES

Part No. GA7949

For proper planting depth and to firm the soil next to the seed trench

GAUGE WHEEL TIRE

Part No. GD1086 - 4.5"

Gauge wheel tire for 3000 or 4000 Series



GAUGE WHEEL COMPLETE - BLACK 3000 OR 4000 SERIES

Part No. GA24576

For proper planting depth and to firm the soil next to the seed trench



PRO MAGS® GAUGE WHEEL

Part No. GA24843 - 3"

Part No. GA24844 - 4.5"

Patented Pro Mags® gauge wheel is plug-proof and long lasting.

The engineered rim design features an exclusive low slot perimeter eliminating interference for removal of mud and other refuse significantly reducing plugged units. The proven and engineered durability in a lighter-weight model means less stress on your pivots, arms, and bearings.



SCHAFFERT MFG GAUGE WHEEL SCRAPER (1 ROW)

Part No. G1K696

The Gauge Wheel Scraper consists of an adjustable metal blade that keeps the depth wheel clean and mud-free allowing you to keep an even and consistent seed depth.

The Gauge Wheel Scraper easily welds or bolts onto the planter and, with a one wrench design, will conveniently flip out of the way when you are not using it.

SEED FIRMERS



Flo-Rite seed firmers offer a NEW and improved revolutionary design compared to traditional seed firmer technology. By incorporating a durable high tech memory polymer, a replaceable wear plate and protected fertilizer tube, farmers now have a tool to increase yields while enjoying lower replacement costs.

Although Flo-Rite seed firmers initially cost about the same as other leading seed firmer brands, maintenance costs of Flo-Rite seed firmers are dramatically less. Flo-Rite's exclusive replaceable wear plate saves farmers money over time. With traditional seed firmers, when the firmer contact point wears out, you have to replace the entire seed firmer unit. But with Flo-Rite seed firmers, you simply replace the wear plate and the firmer works just like new.

Flo-Rite seed firmers use the latest in memory polymers to provide reliable down pressure to assure the best seed placement and proper seeding depth. Flo-Rite's optimal down pressure maximizes the proper seed to soil contact needed to improve germination success.



FLO-RITE SEED FIRMER WITH WEAR PLATE

Part No. GA24658MPP

- Flo-Rite PN#DF420
- Uses GR2261MPP bracket



FLO-RITE SEED FIRMER WITH WEAR PLATE

Part No. GA24657MPP

- Flo-Rite PN#FR200
- Uses GR2259MPP bracket



FLO-RITE SEED FIRMER REPLACEABLE WEAR PLATE

Part No. GR2260MPP

- Flo-Rite PN#FR350



FLO-RITE SEED FIRMER BRACKET

Part No. GR2261MPP

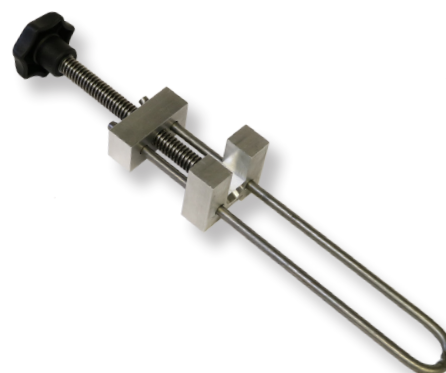
- Flo-Rite PN#FR655 (3000 Series)



FLO-RITE SEED FIRMER BRACKET

Part No. GR2259MPP

- Flo-Rite PN#FR650 (4000 Series)



FLO-RITE SEED FIRMER WEAR PLATE REPLACEMENT TOOL

Part No. GR2262MPP

- Flo-Rite PN#FR400

REBOUNDERS



The Rebounder funnels seeds to the bottom of the seed "V", eliminating seed bounce, seeds flipped on top of the soil, and uneven spacing. It produces uniform seed placement and accurate depth control. This leads to improved germination and consistent emergence, generating higher yields through healthier plants.

The Rebounder's spoon shape design flows gently down the furrow, not disturbing the soil or creating any additional compaction around the seed. The spoon shape design gradually narrows as it drops below the top soil surface to follow the "V" shape that is created by the double disc openers.

The distinct half moon notch on the bottom tip of the Rebounder allows it to run 3/8" off the bottom of the furrow. Because the Rebounder does not drag the bottom of the seed bed, it will not drag seeds or build up with mud.

Installing the Rebounder is quick and easy. On most planters the Rebounder attaches to the seed tube. It is designed to serve as an extension of the seed tube, and works with the seed tube rather than against it. The Rebounder functions as a stabilizer that keeps the seed tube in the center of the furrow.

When mounted to the seed tube, the Rebounder puts less than 1 pound of pressure on the seed tube while planting. This small amount of pressure in the seed furrow eliminates mud from building up when planting in heavy, wet textured soils.



SCHAFFERT MFG REBOUNDER ONLY

Part No. G1K697

Includes rebounder with zip ties to mount to seed tube

SCHAFFERT MFG REBOUNDER WITH BRACKET (OKRQ)

Part No. G1K698

Fits Kinze bracket GR2259MPP (FR650)

SCHAFFERT MFG REBOUNDER WITH BRACKET (OKRU)

Part No. G1K699

Fits Keaton Quick Attach Firmer mountings



SCHAFFERT MFG Y-NOT REBOUNDER

Part No. G1K701

- Fertilizes side wall of seed trench "V"
- Insures that the seeds will not be drenched
- Apply up to 10 gal in-furrow
- Less than 5 min to install



SCHAFFERT MFG REBOUNDER STRAIGHT SHOT KIT

Part No. G1K702

- Places liquid fertilizer directly with the seed from under the Rebounder
- Keeps liquid off wheels and disc
- Secured with metal plate



SCHAFFERT MFG REBOUNDER HOSE HOLDER KIT

Part No. G1K709

- Places liquid fertilizer on the seed
- Keeps liquid off disc of planter
- Hoses secured with molded end tab
- Distributes liquid evenly in-furrow

CLOSING WHEELS



RUBBER CLOSING WHEEL

Part No. GA6434*

Standard closing wheel for most conditions

RUBBER CLOSING WHEEL TIRE

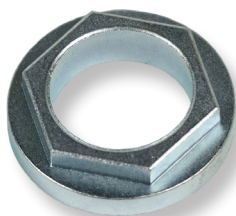
Part No. GD1085

Standard rubber closing wheel tire

CLOSING WHEEL REPLACEMENT BEARING

Part No. GA6171*

Bushing for Kinze cast iron, rubber, and Furrow Cruiser® closing wheels



CLOSING WHEEL ARM BUSHINGS

Part No. GB0239* - Eccentric

Part No. GB0282* - Stepped (shown above)

Replace eccentric and stepped bushings when closing wheel arm position becomes difficult to maintain



CAST IRON CLOSING WHEEL

Part No. GA6597*

Closing wheel for severely hard soil conditions



CLOSING WHEEL SHIELD KIT

Part No. G1K345

Reduce possibility of debris catching in the closing wheel arm



CLOSING WHEEL DRAG ATTACHMENT

Part No. G7566X

Use to gently cover seed trench for crops with difficult emergence (ex: Cotton)



- Check the Closing Wheel Arm Bushings for wear by pulling from side to side on closing wheels
- If there is excessive play, replace the Arm Bushings

*PN available in a Multi-Pak (MPP)

CLOSING WHEELS (CONT'D)



FURROW CRUISER® SPIKE CLOSING WHEEL

Part No. GA22165

Furrow Cruisers® have a wide wheel combined with a spike, thus firming and crumbling on both sides of the seed trench, leading to the best seed depth and most even seed emergence possible. Furrow Cruiser tooth design has also been optimized to clean out well, so when conditions are more saturated than ideal, the planter can keep running! The spacing and shape of the tooth is unique to the industry, causing the Furrow Cruiser® wheel to yield consistently better than similar products when tested side by side over several years.

Note: recommend using 2 per row



FURROW CRUISER SPIKE CLOSING WHEEL INSERTS

Part No. GD31353*

Inserts replace the rubber tire in rubber closing wheels or replace worn Furrow Cruiser inserts in an assembly

**PN available in a Multi-Pak (MPP)*



SCHAFFERT CLOSING WHEEL MOHAWK RING INSERTS

Part No. G1K703

- Stitches seed "V" shut
- Breaks down compacted sidewall and closes the furrow at the same time
- Uses existing wheels and bearing and replaces the rubber tire with Mohawk ring
- Longer wear heavy duty cast steel spikes

SCHAFFERT CLOSING WHEEL ZIPPER ASSEMBLY

Part No. G1K704

- Longer wear, heavy duty cast metal rims and wheels
- Breaks down side wall and zips seed "V" shut at the same time
- Tubular design of spike allows it to release soil and eliminate plugging while compacting the soil around the seed
- Angle design - doesn't flip or throw soil out, allows for accurate release
- As the zipper closes, creates indentation which allows moisture to sink in

CLOSING WHEELS (CONT'D)

4 LINK CLOSING WHEEL ASSEMBLY



Standard swing arm tail section found on a majority of the planters built today has a limited amount of travel up and down (roughly 4") throughout full movement when planting. Sometimes this is not enough movement and results in poor seed-to-soil contact, not closing the seed trench properly, or leaving seeds on top of the ground.

Adding the 4 Link Closer™ will help eliminate the blank areas through ditches and over the tops of terraces. The 4 Link Closer™ provides nearly double (up to 7") the travel of present day 2 link closers.

Note: All 4 Link Closers™ do not include the closing wheels



SCHAFFERT 4 LINK CLOSER™

Part No. G1K705

4 Link Closer™ from Schaffert assembly with no closing wheels; provides greater travel

SCHAFFERT 4 LINK CLOSER™ WITH G3 KIT

Part No. G1K708

4 Link Closer™ including the G3 Kit to provide separation between the closing wheels

SCHAFFERT 4 LINK CLOSER™ 9" FERTILIZER- LH

Part No. G1K706

9" Fertilizer Opener to attach to the 4 Link Closer™ on the left side; closing wheels not included

SCHAFFERT 4 LINK CLOSER™ 9" FERTILIZER- RH

Part No. G1K707

9" Fertilizer Opener to attach to the 4 Link Closer™ on the right side; closing wheels not included

POWDERED GRAPHITE



Part No. GR0146*

- 1 lb. bottle



Part No. GR1842*

- 5 lb. jug

Economical lubricant for both seed-flow and meters. Prevents bridging of seed in hoppers without buildup for improved meter performance and more consistent plant population for increased yield.



80/20 TALC-GRAPHITE LUBRICANT

Part No. GR2240*

- 8 lb. jug

Designed exclusively for treated seed by providing the benefits of both talc and graphite. Absorbs moisture to prevent bridging, minimizes static electricity for improved seed flow, and lubricates seed and meters.

TALC DRYING AGENT



Part No. GR1570*

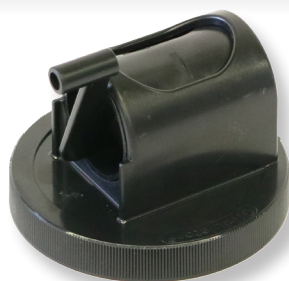
- 8 lb. jug



Part No. GR1828

- 30 lb. bucket

Absorbs moisture and prevents bridging of seed in hoppers. Yield and profit are improved by more consistent plant population and meter performance.



8-POUND JUG DISPENSING LID

Part No. GR2241MPP

- Dispensing Lid (10/pkg)

Makes dispensing powdered lubricant from 8-pound jugs easier and more accurate. Each turn of the handle dispenses 1/8 cup of lubricant. Use with Talc or Talc-Graphite Lubricants.



HIGH PRESSURE GREASE

Part No. GR1940*

- 14 oz. tube (10/pkg)

Extreme use high quality, high pressure grease reduces wear and operating temperatures for longer equipment life. A must-use grease for power take-off couplers.

Recommended Lubrication:

Standard Hoppers



Graphite

- One teaspoon per each fill of hopper
- Make a thick line around the outer edge of the hopper each time you fill
- Err to the heavy side

Talc

- Use ONLY for seed that has a tacky treatment
- 1/2 Cup per hopper fill or enough to fully coat the seed
- Must be mixed into the seed

Bulk Fill

Graphite

- 1 to 2 one pound bottles per hopper, per 50 units of seed
- Err to the heavy side

Talc

- Use ONLY for seed that has a tacky treatment
- Mix talc in as you load the seed in order to equally distribute

*PN available in a Multi-Pak (MPP)



ELECTRICAL TOOL - PLANTER KIT

Part No. G1K242

Includes: Crimp tool*, electrical removal tool* (2), pin extraction tool - weather pak* (1) and pin extraction tool - amp* (1), various fuses, plugs, pins, spades and socket housings and instruction sheet

*Items also sold separately



PIN EXTRACTION TOOL-WEATHER PAK

Part No. GD12559

Extracts electrical contact pins from a weather pak type connector



HYDRAULIC SERVICE TOOL KIT

Part No. G1K336

Includes: Hook & pick set (1), various size gland wrenches (4), seal install wrench (2), threaded cap wrench (1), valve block (1), 5000 PSI hydraulic gauge (2), and various hydraulic fittings and instruction sheet



PIN EXTRACTION TOOL-AMP

Part No. GD12560

Extracts electrical contact pins from a amp type connector



CRIMP TOOL

Part No. GA7599

Allows technician to properly crimp precision pins to cables and wires



PIN EXTRACTION TOOL - DEUTCH

Part No. GD10747

Used to release male/female pins from electrical plug-ins with multiple pins



PISTON REPHASING TEST KIT

Part No. G1K673

Includes: Manifold block, piston repair box, o-rings, check valve plate shaft (2), adapter, necessary nuts and instructions



COUNTER BALANCE VALVE PLUG KIT

Part No. G1K360

Used by technician to pressure check cylinders with a counterbalance valve; replace counterbalance valve with the plug kit



GAUGE WHEEL ARM SEAL/BUSHING

Part No. G1K296

Rejuvenates old gauge wheel arm to new specifications



ISOBUS TOOL KIT

Part No. G1K582

Includes: Tablet with Kinze Software, Tablet Case, ISOBUS Tool Cable, CAN to USB Adapter



ISOBUS TOOL CABLE

Part No. GA18936

Connects the ISOBUS tool to an ISOBUS planter



AG TESTER HARNESS TEST TOOL

Part No. GA22329

- Tests both open and short connections
- Hard protective Pelican case
- Long lasting rechargeable lithium ion battery
- Latching alarm to allow an individual operator to test on a large harness
- Designed to be able to test most agricultural industry harnesses (requires adapters and terminators for various harnesses)
- Operators manual

4900 HARNESS TEST KIT

Part No. G1K684

- Used in conjunction with the Harness Test Tool to test 4900 electric drive harnesses
- Includes the necessary connections and terminators to test most 4900 electric drive planters

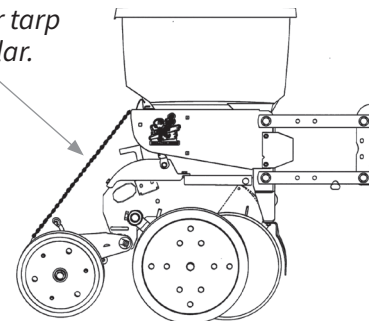
FIELD CHECK SEED POPULATION

1. Tie up one or more sets of closing wheels by running a chain or rubber tarp strap between the hopper support panel and closing wheels. It may be necessary to decrease closing wheel arm spring tension.
2. Plant a short distance and check to see if seed is visible in the seed trench. Adjust planting depth to a shallower setting if seed is not visible and recheck.
3. Measure $\frac{1}{1000}$ of an acre. See chart for correct distance for row width being planted. For example, if planting 30" rows $\frac{1}{1000}$ of an acre would be 17' 5".

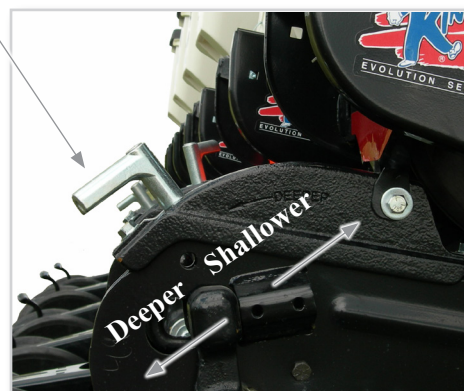
NOTE: Seeds may bounce or roll when planting with closing wheels raised and planting depth set shallow affecting seed spacing accuracy.

4. Count seeds in measured distance.
5. Multiply number of seeds placed in $\frac{1}{1000}$ of an acre by 1,000. This gives total population.

Chain, rubber tarp strap, or similar.



Planting depth adjustment handle



Planting depth adjustment

ESTIMATING CROP POPULATION

ROW WIDTH	LENGTH OF ROW FOR 1/1000 ACRE
30 inches	17 feet, 5 inches
22 inches	23 feet, 8 inches
20 inches	26 feet, 2 inches
15 inches	34 feet, 10 inches

How many plants per acre?

STEP 1: Measure $\frac{1}{1000}$ of an acre (see above)

STEP 2: Count plants

STEP 3: Multiply by 1,000

Example:

- 30" rows - measure 17' 5"
- Counted 27 plants
- Multiply by 1000
- 27,000 plants per acre

ROWS PER ACRE

Row Length (Feet)	Row Width (Inches)					
	15	20	22	30	36	38
500	70	52	48	35	29	28
600	58	44	40	29	24	23
700	50	37	34	25	21	20
800	44	33	30	22	18	17
900	39	29	26	19	16	15
1,000	35	26	24	17	15	14
1,100	32	24	22	16	13	13
1,200	29	22	20	15	12	11
1,300	27	20	18	13	11	11
1,400	25	19	17	12	10	10
1,500	23	17	16	12	10	9
1,600	22	16	15	11	9	9
1,700	20	15	14	10	9	8
1,800	19	15	13	10	8	8
1,900	18	14	13	9	8	7
2,000	17	13	12	9	7	7
2,100	17	12	11	8	7	7
2,200	16	12	11	8	7	6
2,300	15	11	10	8	6	6
2,400	15	11	10	7	6	6
2,500	14	10	10	7	6	6
2,600	13	10	9	7	6	5
2,700	13	10	9	6	5	5

Example: 30 inch rows, 1,000 feet in length, equals 17 rows per acre.



KINZE MANUFACTURING, INC.

PLANTING & HARVESTING SOLUTIONS BY FARMERS FOR FARMERS

From a shop in Ladora, Iowa, to today's sophisticated 160-acre campus and office complex with manufacturing and logistical support — Kinze has focused on one primary goal: designing and building solutions for farmers. That means listening to people who actually own and operate the equipment. Not only our loyal, hard-working customers, but many of our dedicated employees and the owners of Kinze Manufacturing who also farm.

DRIVEN BY CORE VALUES

Integrity | Customer Focus | Excellence | Innovation | Mutual Respect



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