

PRODUCT

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**FORGED TO
PERFORM.**

THE SEED PLACEMENT YOU TRUST

Customers have come to trust Bourgault
Tillage Tools to deliver industry-leading
seed placement for over 15 years.

JUST GOT BETTER

Now that trust can be placed in our Advantage Series line of multi-shoot openers.

No matter what make of machine you pull in the field, choose from Bourgault Tillage Tools' line of multi-shoot Advantage Series openers for any seeding application.



BOURGAULT
TILLAGE TOOLS



The Company behind the Product, The Principles behind the Company.

We manufacture a broad range of ground-engaging tools for tillage, seeding and fertilizing. Our products fit most North American manufactured tillage and air seeding machines, as well as some European and Australian made equipment. See the application chart at the back of this catalogue for a list of the broad range of equipment we fit. Our line includes bolt-on products, as well as our patented Speed-Loc™ quick change system.

We understand the diversity of farming methods and we endeavor to build products to meet those needs. We believe that by listening to our customers and understanding their needs, we will continue to develop products that help our farming customers compete in this ever-challenging agricultural economy.

We respect and value the relationship we have with all whom we do business including our customers, dealers, distributors and suppliers. We strive to provide products that are of excellent value and high quality, and back this by our "Performance Guarantee." We endeavor to provide sales and service people that are helpful and knowledgeable and to provide "Gold Standard" service and support.

We believe our employees are our most important asset. We encourage a work environment of mutual respect, regardless of one's job or title. We believe in compensation systems that pay fair and competitive wages, while also rewarding extra efforts. Our Productivity Bonus system in our production areas rewards steady and consistent effort, and helps to keep production costs

down. Our company-wide Profit Share plan encourages all of our employees to work towards common goals. We encourage continued skills and personal development to help our people reach their goals, and in turn the company benefits from a higher skilled workforce.

Being a responsible corporate citizen is very important to us at Bourgault Tillage Tools. We believe that everyone has a responsibility to help build a world that is sustainable, and we endeavor to operate our business in that way. One example of this is our participation in the "green power" program offered by our electrical supplier. Our plan is to continue increasing the purchase of cleaner source energy in order to help clean up our air and environment. We are also moving to cleaner production processes within our plant to ensure minimum pollution to the environment. In tune with our principles of sustainability, we support agricultural practices that will leave the land and the environment healthy and intact for future generations.

As we expand globally, we are excited by the challenge to supply our tillage and seeding tools to agricultural markets around the world, and at the same time remain committed to maintaining a strong connection with our domestic and local markets. By understanding "the company behind the product and the principles behind the company," we hope that you will be comfortable in dealing with us now and into the future.

Sincerely,

Board of Directors and All Company Associates
F. P. Bourgault Tillage Tools Ltd.



Leadership through Experience

We do our best to lead and manage our company based on a clear vision, mission, core values and principles. We agree on the direction that we choose to travel to create a brighter future for our business and a healthier, happier and more prosperous future for our farm customers, dealers, distributors, suppliers and as well as for our company associates.

More than 25 years ago, from our own expertise in tillage and seeding equipment and from our own farming and hands-on field experience, we realized that any tillage or seeding unit was only as good as the tillage and seeding tool openers being used on that machine. In the early and mid 1980s, we recognized the serious problems and limitations with the existing tillage and seeding tool openers. We realized that leadership and innovation was sorely lacking in the research and development of tillage and seeding tools.

Beginning with the innovations of the parallel wing sweep and the quick change knife tips, for more than 25 years Bourgault Tillage Tools has been providing leadership and innovations in the tillage and seeding tools industry. Today, we continue to innovate in order to provide you, our farm customer, with the most innovative and highest quality tillage and seeding tools, and we look forward to continue serving you into the future.

Joseph L. Bourgault
President



PERFORMANCE GUARANTEE

Bourgault Tillage Tools guarantees the product you purchase will perform to its designed specification under normal conditions.

If the product does not perform its designed task within the first season of use, please inform us of the issue immediately and grant us the opportunity to visit your field to assess the situation. If we cannot rectify the situation, we will guarantee you a 100% refund.



WARRANTY TERMS

Warranty is limited to the replacement of the failed part and does not cover any consequential damages. To obtain warranty, the part must be returned to the dealer. The dealer will complete the Warranty Claim Form.

All products are warranted from the date of purchase as follows:

- 1st year prorated to a maximum of 100%
- 2nd year prorated to a maximum of 70%
- 3rd year prorated to a maximum of 40%

Carbide is warranted for loss only. Chipping of carbide is normal. If the brazing fails and the carbide falls off, return the part to the dealer.

Trip Strength Considerations

At Bourgault Tillage Tools, we build products that last. Our seed openers need to perform in some challenging conditions, and we design our products with durability in mind. The end user has the responsibility to make sure the machine is best suited to the operating conditions. Trip strength is an important consideration. When it comes to trips, heavier is not necessarily better! Buying a seeding machine with heavier trips than required for proper penetration may result in:

- Broken or damaged seed openers
- Broken or bent shanks
- More rocks being pulled to the surface

Proper trip strength will save you time and money. When determining the appropriate trip strength, some factors to consider are: soil type, amount of rock and type of seed opener used. Some people believe a heavy trip is a “one size fits all” scenario. This is simply not true. Take the time and make sure you get a machine with appropriate trip strength for your farming operation.

Bourgault Tillage Tools reserves the right to limit warranty claims on trip strengths greater than 400 pounds.



SPEED-LOC™

The Speed-Loc™ system provides more benefits than any other system!

Consistent depth control: The upper stop on the Speed-Loc™ adapters ensures that your tillage or seeding tools are always running at the same depth.

Peace of mind: The spring-loaded locking pin ensures that the tools will stay securely in place in all conditions, and we back that up with a 100% guarantee.

Years of trouble-free operation: The Speed-Loc™ adapters are designed with durability in mind. The cast adapters are heat-treated for increased strength and wear resistance.



200 SERIES

QUICK CHANGE ADAPTERS



200-QCA-4700

SL
200**47°**

- Fits all Bourgault and Ezee-On field cultivators, air seeders and air drills.
- 1-3/4" (45 mm) centre to centre.
- 1/2" (12 mm) hex head bolts.



200-QCA-4710

SL
200**47°**

- Fits field cultivators with 47° shanks, except Bourgault and Ezee-On.
- 1-3/4" (45 mm) centre to centre.
- Oversize head plow bolts.



200-QCA-5000

SL
200**50°**

- Fits Bourgault and Morris Concept 2000.
- Not recommended for primary tillage use, only for seeding.
- 2-1/4" (57 mm) centre to centre.
- 1/2" (12 mm) hex head bolts.

Speed-Loc™ Rebate

Bring any 100 Series or competitor's adapters in to your local dealer and receive a **\$7 cash rebate** when you purchase a set of 200 Series adapters. For a limited time only.

For Speed-Loc™ adapter replacement parts, refer to page 75.



200-QCA-5010



200-QCA-5020



200-QCA-5030



50°

- Fits air drills with 50° shanks.
- Not recommended for heavy deep tillage.
- 2-1/4" (57 mm) centre to centre.
- 1/2" (12 mm) plow bolts.
- Can also be used on a 43° shank with the addition of a 7° wedge (100-WDG-0700).



50°

- Fits European built tillage and seeding implements.
- 63 mm to 80 mm centre to centre.
- M12-DIN608 10.9 plow bolts.



50°

- Fits Horsch shanks.
- 57 mm centre to centre.
- M12-DIN608 10.9 plow bolts.

Not sure which adapter is for you or which bolts you need?

Refer to our Speed-Loc™ adapter chart on pages 76–77. For a complete list of bolt lengths, see pages 78–80.



410 SERIES

QUICK CHANGE ADAPTERS



410-QCA-5000

SL
410**50°**

- Fits Bourgault and Morris Magnum chisel plows, and Morris Concept 2000 with the LH755 shank.
- 2-1/4" (57 mm) centre to centre.
- 1/2" (12 mm) hex head bolts.

On a Bourgault four-hole shank, the centre hole of the adapter should be plugged to protect the spring ball from NH₃ gases when used as a NH₃ applicator.



410-QCA-5010

SL
410**50°**

- Fits all 50° chisel plows except the Bourgault and Morris units identified for use with the 410-QCA-5000.
- 1-3/4" to 3" (45 mm to 77 mm) centre to centre.
- 1/2" (12 mm) hex head bolts.

In rocky or abrasive conditions, the bottom nut may experience excessive wear or damage. This problem is alleviated by placing the bottom bolt in from the back of the shank and putting the nut in the front of the adapter.

This adapter can be used on a 43° shank by adding a 7° plastic wedge (400-WDG-0700).

Special note for John Deere: certain chisel plow models including the 685, 1810, 1820 and 2400 may need a 3° wedge to attain proper sweep pitch. See pages 72-73 for more information.

Shanks with the open bottom bolt hole require the 047-ACC-1002 to keep the bottom bolt in place.

For Speed-Loc™ adapter replacement parts, refer to page 75.



410-QCA-5020

SL
410

50°

- Fits Lemken shanks.
- 45 mm centre to centre.
- M12-DIN608 10.9 plow bolts.



410-QCA-5050

SL
410

50°

- Fits Kverneland (CLD Grubber) shanks.
- 45 mm centre to centre.
- M12-DIN608 10.9 plow bolts.

Speed-Loc™ Rebate

Bring any 400 Series or competitor's adapters in to your local dealer and receive a **\$7 cash rebate** when you purchase a set of 410 Series adapters. For a limited time only.

Not sure which adapter is for you or which bolts you need?

Refer to our Speed-Loc™ adapter chart on pages 76–77. For a complete list of bolt lengths, see pages 78–80.



SINGLE-SHOOT OPENERS

Bourgault Tillage Tools has been providing producers all around the world with industry-leading quality and innovation in single-shoot seeding technology. You can trust in the quality that our products stand for.



200 Series
Speed-Loc™



410 Series
Speed-Loc™



Edge-On
Shank



47°
C-Shank



47° and 50°
C-Shank

REPLACEMENT TIPS

LONG-WEARING HIGH-CHROME TIPS



200-TIP-0511

Carbide Tip

1/2" (12.7 mm) with carbide insert on the nose



200-TIP-0800

Chrome Tip

3/4" (19 mm)



200-TIP-0801

Carbide Tip

3/4" (19 mm) with carbide insert on the nose



200-TIP-1011

Vertical Tip

1" (25 mm) with double carbide insert



200-TIP-2011

Spread Tip

2" (50 mm) with carbide insert on the nose and underside of the wings



200-TIP-3000

Chrome Spread Tip

3" (76 mm)

200-NUT-3101



200-BNC-3100

200-BLT-3102



Bolt and Nut Combo

This bolt and nut combination is used to secure Category 1 tips, Titan 1/2" tips and Advantage Series tips. It is important not to over tighten the bolt when installing the tips. The bolt has a strip of lock-tight applied to the threads, so it needs only to be turned in by hand until the shoulder of the bolt makes contact with the nut.

Over torquing with a power drill will result in difficulty when removing. Recommended to torque to 84 in/lbs or 7 ft/lbs.



200-TIP-3001



200-TIP-3011



200-TIP-4011



Spread Tip

3" (76 mm) with carbide insert on the nose and hard facing on the underside of the wings



Spread Tip

3" (76 mm) with carbide insert on the nose and underside of the wings



Spread Tip

4" (101 mm) with carbide insert on the nose and underside of the wings

All tips on these pages (except 200-TIP-0511) are compatible with Flexi-Coil Stealth openers.

SINGLE-SHOOT OPENERS



047-ASY-1000 047-KNH-1000

47°
50°

P

Fits 47° and 50° C-Shank

- Seed is delivered through the precision funnel opening.
- Front delivery provides precise seed delivery and reduces plugging with better soil flow.
- Can be used with any of the replaceable tips (sold separately) allowing you to choose the tip for your conditions.
- Extra hard surfacing on critical wear areas to increase the life of the holder.
- Also available with a phosphorous tube add-on (047-ASY-1000P).
- When installing on a Bourgault with MRBs, use 047-KNH-1000 directly behind the MRBs.



680-ASY-1000 680-ASY-1000P



Fits Edge-On Shank

- Seed is delivered through the precision funnel opening.
- Front delivery provides precise seed delivery and reduces plugging with better soil flow.
- Can be used with any of the replaceable tips (sold separately) allowing you to choose the tip for your conditions.
- Reinforced holder reduces breakage in rocky conditions.
- Extra hard surfacing on critical wear areas to increase the life of the holder.
- Also available with a phosphorous tube add-on (680-ASY-1000P).



050-KNH-0812

47°
50°

Fits 47° and 50° C-Shank

- Can be used with any of the replaceable tips (sold separately) allowing you to choose the tip for your conditions.
- Rear delivery provides additional trash clearance.
- Slotted bolt holes provide the ability to fit many different makes and models.



200-KNH-4010

SL
200

Fits 200 Series Speed-Loc™

- Can be used with any of the replaceable tips (sold separately) allowing you to choose the tip for your conditions.
- Works with Bourgault or Flexi-Coil square tube seed boot.
- Rear delivery provides additional trash clearance.

200-KNF-7511
200-KNF-7510

200-KNF-7511P

SL
200

P

Fits 200 Series Speed-Loc™

- Precise seed placement due to the funnel being close to the tip and to the bottom of the furrow.
- Reinforced funnel with hard surfacing for longer wear life.
- Funnel fits Bourgault and Flexi-Coil square tube seed boots.
- Choose between 3/4" weld-on carbide or non-carbide tips.
- The carbide opener is also available with a phosphorous tube add-on (200-ASY-7511P).



200-KNF-7512

SL
200

Fits 200 Series Speed-Loc™

- Excellent plug resistance due to step located behind the tip.
- The funnel is reinforced with hard surfacing for longer wear life.
- Funnel fits Bourgault and Flexi-Coil square tube seed boots.
- 3/4" weld-on carbide tip for prolonged tip life and better soil penetration.



200-KNF-7542

SL
200

Fits 200 Series Speed-Loc™

- Perfect for heavy gumbo soils, extra space between the tip and the tube reduces plugging.
- High-chrome tip is long-lasting and provides great penetration.
- High-value opener when you are seeding into low abrasive soils or heavy gumbo.



200-VRT-1040

SL
200

Fits 200 Series Speed-Loc™

- 1" weld-on tip with extra carbide for long-lasting wear life.
- Fits any 200 Series Speed-Loc™ adapter.
- Vertical approach reduces rock pulling and soil throw.



047-VRT-1040

47°

Fits 47° C-Shank

- 1" weld-on tip with extra carbide for long-lasting wear life.
- Fits any 200 Series Speed-Loc™ adapter.
- Vertical approach reduces rock pulling and soil throw.
- Fits 1-3/4" bolt hole spacing.



600-KNH-7540

47°
50°

Fits 47° and 50° C-Shank

- Choose between long-wearing carbide or chrome tip.
- The larger tip provides extra long wear and decreases wear on the holder.
- Slotted bolt hole spacing give this opener flexibility.
- Fits 1-3/4" or 2-1/2" bolt hole spacing.



For replacement tip options, see page 61.



599-KNH-7540

47°

Fits 47° C-Shank

- This opener is the same as above except that it is designed to have a better fit on the Bourgault shank.



For replacement tip options, see page 61.



200-KNH-7501

SL
200

Fits 200 Series Speed-Loc™

- This opener is used in conjunction with the Technotill system.
- Fits any 200 Series Speed-Loc™ adapter.
- The high-chrome tip with a carbide insert provides additional wear life.



200-KNF-0811
200-KNF-0810

SL
200

Fits 200 Series Speed-Loc™

- Use in conjunction with the 300 Series Seed Boot System on pages 54 and 55. Designed to work with the 300-ATM-1035.
- 3/4" weld-on tip, comes with or without carbide.
- Fits any 200 Series Speed-Loc™ adapter.
- This low disturbance opener is low in draft and easy pulling.



200-KNF-0813

SL
200

Fits 200 Series Speed-Loc™

- Use in conjunction with the 300 Series Seed Boot System on pages 54 and 55. Designed to work with the 300-ATM-1035.
- 3/4" weld-on tip with extra carbide for long-lasting wear life.
- Fits any 200 Series Speed-Loc™ adapter.
- Vertical approach reduces rock pulling.



410-KNF-0801
410-KNF-0800

SL
410

Fits 410 Series Speed-Loc™

- Use in conjunction with the 300 Series Seed Boot System on pages 54 and 55. Designed to work with the 300-ATM-1031.
- 3/4" weld-on tip, comes with or without carbide.
- Fits any 410 Series Speed-Loc™ adapter.
- This low disturbance opener is low draft and easy pulling.



410-VRT-1000

SL
410

Fits 410 Series Speed-Loc™

- Use in conjunction with the 300 Series Seed Boot System on pages 54 and 55. Designed to work with the 300-ATM-1031.
- 1" weld-on tip with extra carbide for long-lasting wear life.
- Fits any 200 Series Speed-Loc™ adapter.
- Vertical approach reduces rock pulling.



200-KNH-4000

SL
200

Fits 200 Series Speed-Loc™

- Use in conjunction with the 300 Series Seed Boot System on pages 54 and 55. Designed to work with the 300-ATM-1035.
- Can be used with any of the replaceable tips (sold separately) allowing you to choose the tip for your conditions.
- Our extensive tip options allow you to choose the tip that is right for you.
- Fits any 200 Series Speed-Loc™ adapter.



200-HOE-1700

SL
200

Fits 200 Series Speed-Loc™

- Provides 1-1/2" to 1-3/4" seed spread. Works best with a 1" single tube seed boot.
- Long-wearing high-chrome tip.
- Runs through the ground at a fairly vertical angle for less rock pulling.
- Very dependable in many different conditions.



200-SPN-0200
200-SPN-0208
200-SPN-0300
200-SPN-0308

SL
200

Fits 200 Series Speed-Loc™

- 2" spread (200-SPN-0200 or 200-SPN-0208) or 3" spread (200-SPN-0300 or 200-SPN-0308).
- A larger spread allows for nitrogen fertilizer to be placed with the seed.
- Choose from 1/4" (200-SPN-0200 or 200-SPN-0300) material or 5/16" (200-SPN-0208 or 200-SPN-0308) for increased wear life.
- Designed to fit any 200 Series adapter.



410-SPN-0300
410-SPN-0308

SL
410

Fits 410 Series Speed-Loc™

- 3" spread (410-SPN-0300 or 410-SPN-0308).
- A larger spread allows for nitrogen fertilizer to be placed with the seed.
- Choose from 1/4" (410-SPN-0300) material or 5/16" (410-SPN-0308) for increased wear life.
- Designed to fit any 410 Series adapter.



MULTI-SHOOT OPENERS

The quality and seed placement you trust now comes with a dose of fertilizer. Choose from our extensive line of bolt-on and Speed-Loc™ openers for any seeding application.



C-Shank



Edge-On



Drill Specific



MULTI-SHOOT OPENERS

With the development and increased use of multi-shoot knives for one-pass seed and fertilizer placement, the following question is often asked:

“How much fertilizer can I place with the seed without causing germination problems or seedling damage?”

The answer to this question is very complex.

Precautions and Risk Factors*

Consider these factors when using any products between pages 30 to 51.

FERTILIZER SOURCE – depending on the type of fertilizer used, damage can occur either through ammonia toxicity or salt effects or a combination of both as in the case with blended fertilizer.

FERTILIZER RATES – typically, the risk of crop seedling injury increases with higher rates of fertilizer.

CROP TYPE – crops vary in their ability to tolerate seed-placed fertilizer, with cereals being able to withstand more than oilseeds and pulses falling somewhere in between.

SEED QUALITY – with everything else equal, seed with poor vigor will suffer more damage from seed-placed fertilizer than seeds with high vigor. If seed vigor is questionable, have it tested.

SOIL MOISTURE – with soil at or near saturation point, the toxic effects of fertilizer are diluted so seeds can germinate and develop with few problems. If conditions are very dry, reduce the amount of fertilizer placed near the seed.

SOIL TEXTURE – fine textured soils such as clay or clay loam tend to also reduce these toxic effects over coarse or sandy soils because of their ability to hold more water and absorb toxic free ammonia.

ORGANIC MATTER – higher levels of organic matter (OM) in a soil also lessen the risk of damage. For example, reduced levels of OM on dry, eroded hilltops seedlings are more prone to injury.

SEEDBED UTILIZATION – or SBU is the proportion of the seedbed used for seed and fertilizer placement. Ex: 2" openers on 10" row spacing have a SBU of 20%. As SBU increases, the crops tolerance to higher rates of seed-placed fertilizer increases.

SEEDING DEPTH, PACKING AND SPEED – these points are also factors to take into consideration as they may compromise seed and fertilizer placement as well as the overall quality of the seeding operation.

ADVERSE SEEDING CONDITIONS – excessively wet or dry soil at time of seeding can cause erratic seed placement, poor seed-to-soil contact and poor separation, which will also affect the amounts of seed placed fertilizer you can apply.

If any of the above conditions are less than ideal, it is advisable to reduce your fertilizer rate accordingly.

**It is our company's policy not to recommend or endorse specific "safe" rates of fertilizer for multi-shoot openers due to the wide variance in the PRECAUTIONS AND RISK FACTORS listed above. Most of our knives are tested at independent research facilities to verify only the placement of seed and fertilizer. We suggest that producers consult their local agronomist to establish acceptable fertilizer rates for their unique seeding conditions.*

SYMBOL LEGEND



Tip Styles



Single-Shoot

The seed is placed directly behind the tip in the middle of the row. For single-shoot seeding, choose from a variety of tips on pages 16 and 17.



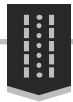
Side Band

The seed is placed directly behind the tip in the middle of the row. Fertilizer is placed in a band to the side and behind the wing.



Side Band (Triple-Shoot)

The seed is placed directly behind the tip in the middle of the row. Fertilizer is placed in a band to the side and behind the wing. Liquid phosphorous is added to the seed row.



Paired Row

The seed is delivered in two distinct rows while the fertilizer is placed in the centre.



Fertilizer Types



Granular



Liquid



NH₃



Maxquip NH₃



Liquid Phosphorous



C-SHANK



FIND YOUR OPENER



Advantage Series

Horizontal Seed / Fertilizer Separation



Side Band



Granular* 612-ASY-0711/0712 31



Liquid* 612-ASY-0711L/0712L 31



*Also available with 1/4" O.D. liquid phosphorous tube



Paired Row



Granular 610-ASY-4020 30



Liquid 610-ASY-4026 30



Titan Series

Horizontal & Vertical Seed / Fertilizer Separation



Single Row



Granular 620-ASY-5015 33



Paired Row



Granular 620-ASY-5010 33



NH₃ 620-ASY-5020 33



NH₃ Maxquip 620-ASY-5020M 33



Liquid Openers

Horizontal Seed / Fertilizer Separation



Side Band



Liquid 600-KNH-7562 32

Liquid 200-KNF-0863 32



ADVANTAGE SERIES

HORIZONTAL SEED / FERTILIZER SEPARATION

PAIRED ROW



610-ASY-4020

Double-Shoot Granular

Fits 47° and 50° C-Shank



- Fertilizer is placed down the middle of the row and on the same plane as the seed. The seed is placed in two distinct rows measuring 3" centre to centre.
- The 4" Paired Row tip allows you to achieve great seedbed utilization.
- Extended wear life due to high-chrome tip with carbide inserts on the nose and underside.



610-ASY-4026

Double-Shoot Liquid

Fits 47° and 50° C-Shank



- Carbide placement provides sharp cutting edges for excellent penetration.
- Hard facing is placed on critical wear points to ensure a long-lasting holder.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- Tests have shown our Paired Row Advantage to be the industry leader in low draft and soil disturbance.
- The sleek holder design combined with the front delivery concept reduces plugging and encourages trash clearance.

SIDE BAND



Optional P Tube



612-ASY-0711 (left)
612-ASY-0712 (right)

612-ASY-0711L (left)
612-ASY-0712L (right)

Double-Shoot Granular

Fits 47° and 50° C-Shank



- **Triple-Shoot Liquid Phosphorus Openers:**
612-ASY-0711P, 612-ASY-0712P

- The 2-1/4" Side Band tip provides you with the lowest draft and soil disturbance in the industry while ensuring great seed placement.
- Long-wearing carbide-enforced chrome tip is reinforced where you need it – on the nose and wing.
- Carbide placement provides sharp cutting edges for excellent penetration.

Double-Shoot Liquid

Fits 47° and 50° C-Shank



- Quick change liquid insert provides easy switching from granular to liquid.
- **Triple-Shoot Liquid Phosphorus Openers:**
612-ASY-0711LP, 612-ASY-0712LP

- Hard facing is placed on critical wear points to ensure a long-lasting holder, proper seed placement and virtually no plugging.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The streamlined holder design combined with the front delivery concept reduces plugging and encourages trash clearance.



LIQUID OPENERS

HORIZONTAL SEED / FERTILIZER SEPARATION

SIDE BAND



600-KNH-7562

Double-Shoot Liquid

Fits 47° and 50° C-Shank

- Replaceable tip to ensure high-wear points can be replaced at a lower cost.

For replacement tip, see page 61.



600-TIP-7507



200-KNF-0863

Double-Shoot Liquid

Fits 200 Series Speed-Loc™ Adapters

- This is the only Speed-Loc™ multi-shoot opener that we carry. It provides all the benefits of the Speed-Loc™ system with the seed placement that you trust.

- These unique side band openers provide good horizontal separation with slight vertical fertilizer separation.
- The high-chrome tip is protected with a carbide insert on the nose and a solid carbide wing.
- Carbide placement provides sharp cutting edges for excellent penetration.
- The opener works very well when used with a pressurized liquid system.

TITAN SERIES

HORIZONTAL & VERTICAL SEED / FERTILIZER SEPARATION



620-ASY-5010

Paired Row Granular

Fits 47° and 50° C-Shank



620-ASY-5015

Single Row Granular

Fits 47° and 50° C-Shank



620-ASY-5020

Paired Row NH₃

Fits 47° and 50° C-Shank



620-ASY-5020M

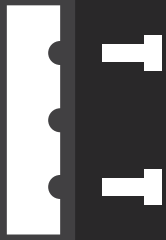
Paired Row NH₃ Maxquip

Fits 47° and 50° C-Shank



- The Titan provides true vertical separation between seed and fertilizer. It also provides more centre-to-centre horizontal separation than our Advantage Series openers.
- 1/2" wide fertilizer knife for lower disturbance and more precise fertilizer placement.
- Adjustable front knife allows you to set the depth of the fertilizer from 3/4" to 1-1/2".

- Three strategic carbide locations for additional wear life. Hard facing is placed on key wear points that don't have carbide.
- The modular design allows for replacement of worn parts instead of the entire opener.
- The Titan has been tested to show superior performance when compared to other paired row openers.
- Adjustable based on seed and fertilizer placement needs.



EDGE-ON








FIND YOUR OPENER



Advantage Series

Horizontal Seed / Fertilizer Separation

Side Band

	Granular*	682-ASY-0711/0712	37
	Liquid*	682-ASY-0711L/0712L	37
	Liquid*	682-ASY-2063/2064	38
	Maxquip NH₃*	682-ASY-2063M/2064M	38
	*Also available with ¼" O.D. liquid phosphorous tube		

Paired Row

	Granular	680-ASY-4020	36
	Liquid	680-ASY-4026	36




Titan Series

Horizontal & Vertical Seed / Fertilizer Separation

Single Row

	Granular	628-ASY-5015	39
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Paired Row

	Granular	628-ASY-5010	39
	NH₃	628-ASY-5020	39
	NH₃ Maxquip	628-ASY-5020M	39



ADVANTAGE SERIES

HORIZONTAL SEED / FERTILIZER SEPARATION

PAIRED ROW



680-ASY-4020

Double-Shoot Granular

Fits Edge-On Shank, Bourgault PHD (except XTC), Concord,* Morris

- Fertilizer is placed down the middle of the row and on the same plane as the seed. The seed is placed in two distinct rows measuring 3" centre to centre.
- The 4" Paired Row tip allows you to achieve great seedbed utilization.
- Extended wear life due to high-chrome tip with carbide inserts on the nose and underside.
- Carbide placement provides sharp cutting edges for excellent penetration.
- Order 680-ACC-0003 if installing the 680-ASY-4020 on a Bourgault.



680-ASY-4026

Double-Shoot Liquid

Fits Edge-On Shank, Bourgault PHD (except XTC), Concord,* Morris

- Hard facing is placed on critical wear points to ensure a long-lasting holder.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- Tests have shown our Paired Row Advantage to be the industry leader in low draft and soil disturbance.
- The sleek holder design combined with the front delivery concept reduces plugging and encourages trash clearance.
- Order 680-ACC-0002 if installing the 680-ASY-4026 on a Bourgault.

* Make sure to order 680-ACC-0001 when installing on a Concord (see page 73).

SIDE BAND



682-ASY-0711 (left)
682-ASY-0712 (right)



Optional P Tube



682-ASY-0711L (left)
682-ASY-0712L (right)

Double-Shoot Granular

Fits Edge-On Shank, Bourgault PHD (except XTC), Concord*, Morris

- **Triple-Shoot Liquid Phosphorus Openers:**
682-ASY-0711P, 682-ASY-0712P

Double-Shoot Liquid

Fits Edge-On Shank, Bourgault PHD (except XTC), Concord*, Morris

- Quick change liquid insert provides easy switching from granular to liquid.
- **Triple-Shoot Liquid Phosphorus Openers:**
682-ASY-0711LP, 682-ASY-0712LP

- The 2-1/4" Side Band tip provides you with the lowest draft and soil disturbance in the industry while ensuring great seed placement.
- Long-wearing carbide-enforced chrome tip is reinforced where you need it – on the nose and wing.
- Carbide placement provides sharp cutting edges for excellent penetration.

- Hard facing is placed on critical wear points to ensure a long-lasting holder, proper seed placement and virtually no plugging.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The streamlined holder design combined with the front delivery concept reduces plugging and encourages trash clearance.



ADVANTAGE SERIES

HORIZONTAL SEED / FERTILIZER SEPARATION

SIDE BAND



682-ASY-2063 (left)
682-ASY-2064 (right)



682-ASY-2063P (left)
682-ASY-2064P (right)



Double-Shoot Liquid

Fits Edge-On Shank, Bourgault PHD, Concord,* Morris



Triple-Shoot Liquid

Fits Edge-On Shank, Bourgault PHD, Concord,* Morris

- Use to add liquid phosphorus to the seed row.



682-ASY-2063M (left)
682-ASY-2064M (right)



682-ASY-2063MP (left)
682-ASY-2064MP (right)



Double-Shoot NH₃ Maxquip

Fits Edge-On Shank, Bourgault PHD, Concord,* Morris

- Outfitted with a Maxquip tube that is inserted into the 1/4" stainless steel liquid tube.



Triple-Shoot NH₃ Maxquip

Fits Edge-On Shank, Bourgault PHD, Concord,* Morris

- Fitted with a 1/4" stainless steel tube that applies liquid phosphorus down the centre of the seed row.

- The 2-1/4" Side Band tip provides you with low draft and soil disturbance while ensuring great seed placement.
- Long-wearing carbide-enforced chrome tip is reinforced where you need it – on the nose and wing.

- Carbide placement provides sharp cutting edges for excellent penetration.
- The welded liquid tube is protected by the carbide tip and runs along the front of the opener to prevent plugging.
- The streamlined holder design combined with the front delivery concept reduces plugging and encourages trash clearance.

* Make sure to order 680-ACC-0001 when installing on a Concord (see page 73).



628-ASY-5010

Paired Row Granular

Fits Edge-On Shank, Morris



628-ASY-5015

Single Row Granular

Fits Edge-On Shank, Morris

- Not recommended for North America.



628-ASY-5020

Paired Row NH₃

Fits Edge-On Shank, Morris



628-ASY-5020M

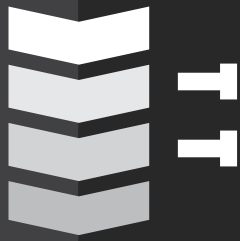
Paired Row NH₃ Maxquip

Fits Edge-On Shank, Morris



- The Titan provides true vertical separation between seed and fertilizer. It also provides more centre-to-centre horizontal separation than our Advantage Series openers.
- 1/2" wide fertilizer knife for lower disturbance and more precise fertilizer placement.
- Adjustable front knife allows you to set the depth of the fertilizer from 3/4" to 1-1/2".

- Three strategic carbide locations for additional wear life. Hard facing is placed on key wear points that don't have carbide.
- The modular design allows for replacement of worn parts instead of the entire opener.
- The Titan has been tested to show superior performance when compared to other paired row openers.



DRILL SPECIFIC



As the direct seeding industry evolves, unique shank styles are being developed by air drill manufacturers. Bourgault Tillage Tools is dedicated to building openers that fit these new shanks. You can now be assured the quality you have come to trust in our openers will be available on your choice of air drills.

Advantage Series Benefits

- Ultra-Low Draft
- Minimal Seedbed Fracturing
- Less Soil Disturbance
- Carbide on Tip and Wings
- Replaceable Tip
- Virtually No Plugging
- Smoother Field Finish
- Even Germination
- Seed and Fertilizer Separation





MORRIS CONTOUR I

ADVANTAGE SERIES OPENERS

PAIRED ROW



683-ASY-4020G



683-ASY-4020L

Double-Shoot Granular



- Fertilizer is placed down the middle of the row and on the same plane as the seed. The seed is placed in two distinct rows measuring 3" centre to centre.
- The 4" Paired Row tip allows you to achieve great seedbed utilization.
- Extended wear life due to high-chrome tip with carbide inserts on the nose and underside.
- Carbide placement provides sharp cutting edges for excellent penetration.
- Hard facing is placed on critical wear points to ensure a long-lasting holder.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The sleek holder design combined with the front delivery concept reduces plugging and encourages trash clearance.

Double-Shoot Liquid



- Note: all information from the opener above applies to this product as well.
- Quick change liquid insert provides easy switching from granular to liquid.

SINGLE-SHOOT



683-KNH-1000 683-ASY-1000P

Single-Shoot



- Can be used with any replaceable tip allowing you to choose the tip for your conditions. (Tips sold separately.)
- Extra hard surfacing on critical wear areas to increase the life of the holder.

SIDE BAND



683-ASY-0711G (left)
683-ASY-0712G (right)



Optional P Tube



683-ASY-0711L (left)
683-ASY-0712L (right)

Double-Shoot Granular



- **Triple-Shoot Liquid Phosphorus Openers:**
683-ASY-0711GP, 683-ASY-0712GP

- The 2-1/4" Side Band tip provides you with the lowest draft and soil disturbance in the industry while ensuring great seed placement.
- Long-wearing carbide tip is reinforced where you need it – on the nose and wing.
- Carbide placement provides sharp cutting edges for excellent penetration.

Double-Shoot Liquid



- Quick change liquid insert provides easy switching from granular to liquid.
- **Triple-Shoot Liquid Phosphorus Openers:**
683-ASY-0711LP, 683-ASY-0712LP

- Hard facing is placed on critical wear points to ensure a long-lasting holder, proper seed placement and virtually no plugging.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The streamlined holder design combined with the front delivery concept reduces plugging and encourages trash clearance.



MORRIS CONTOUR II

ADVANTAGE SERIES OPENERS

PAIRED ROW



693-ASY-4020G



693-ASY-4020L

Double-Shoot Granular



- Fertilizer is placed down the middle of the row and on the same plane as the seed. The seed is placed in two distinct rows measuring 3" centre to centre.
- The 4" Paired Row tip allows you to achieve great seedbed utilization.
- Extended wear life due to high-chrome tip with carbide inserts on the nose and underside.
- Carbide placement provides sharp cutting edges for excellent penetration.
- Hard facing is placed on critical wear points to ensure a long-lasting holder.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The sleek holder design combined with the front delivery concept reduces plugging and encourages trash clearance.

Double-Shoot Liquid



- Note: all information from the opener above applies to this product as well.
- Quick change liquid insert provides easy switching from granular to liquid.

SINGLE-SHOOT



693-KNH-1000 693-ASY-1000P

Single-Shoot



- Can be used with any replaceable tip allowing you to choose the tip for your conditions. (Tips sold separately.)
- Extra hard surfacing on critical wear areas to increase the life of the holder.

SIDE BAND



693-ASY-0711G (left)
693-ASY-0712G (right)



Optional P Tube



693-ASY-0711L (left)
693-ASY-0712L (right)

Double-Shoot Granular



- **Triple-Shoot Liquid Phosphorus Openers:**
693-ASY-0711GP, 693-ASY-0712GP

- The 2-1/4" Side Band tip provides you with the lowest draft and soil disturbance in the industry while ensuring great seed placement.
- Long-wearing carbide tip is reinforced where you need it – on the nose and wing.
- Carbide placement provides sharp cutting edges for excellent penetration.

Double-Shoot Liquid



- Quick change liquid insert provides easy switching from granular to liquid.
- **Triple-Shoot Liquid Phosphorus Openers:**
693-ASY-0711LP, 693-ASY-0712LP

- Hard facing is placed on critical wear points to ensure a long-lasting holder, proper seed placement and virtually no plugging.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The streamlined holder design combined with the front delivery concept reduces plugging and encourages trash clearance.



CASE IH 700, NEW HOLLAND P2060, ADVANTAGE SERIES OPENERS

PAIRED ROW



694-ASY-4020G



694-ASY-4020L

Double-Shoot Granular



- Fertilizer is placed down the middle of the row and on the same plane as the seed. The seed is placed in two distinct rows measuring 3" centre to centre.
- The 4" Paired Row tip allows you to achieve great seedbed utilization.
- Extended wear life due to high-chrome tip with carbide inserts on the nose and underside.
- Carbide placement provides sharp cutting edges for excellent penetration.
- Hard facing is placed on critical wear points to ensure a long-lasting holder.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The sleek holder design combined with the front delivery concept reduces plugging and encourages trash clearance.

Double-Shoot Liquid



- Note: all information from the opener above applies to this product as well.
- Quick change liquid insert provides easy switching from granular to liquid.

SINGLE-SHOOT



694-KNH-1000 694-ASY-1000P

Single-Shoot



- Can be used with any replaceable tip allowing you to choose the tip for your conditions. (Tips sold separately.)
- Extra hard surfacing on critical wear areas to increase the life of the holder.

SIDE BAND



694-ASY-0711G (left)
694-ASY-0712G (right)



Optional P Tube



694-ASY-0711L (left)
694-ASY-0712L (right)

Double-Shoot Granular



- **Triple-Shoot Liquid Phosphorus Openers:**
694-ASY-0711GP, 694-ASY-0712GP

- The 2-1/4" Side Band tip provides you with the lowest draft and soil disturbance in the industry while ensuring great seed placement.
- Long-wearing carbide tip is reinforced where you need it – on the nose and wing.
- Carbide placement provides sharp cutting edges for excellent penetration.

Double-Shoot Liquid



- Quick change liquid insert provides easy switching from granular to liquid.
- **Triple-Shoot Liquid Phosphorus Openers:**
694-ASY-0711LP, 694-ASY-0712LP

- Hard facing is placed on critical wear points to ensure a long-lasting holder, proper seed placement and virtually no plugging.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The streamlined holder design combined with the front delivery concept reduces plugging and encourages trash clearance.



CASE IH 800, NEW HOLLAND P2070, ADVANTAGE SERIES OPENERS

PAIRED ROW



684-ASY-4020G



684-ASY-4020L

Double-Shoot Granular



- Fertilizer is placed down the middle of the row and on the same plane as the seed. The seed is placed in two distinct rows measuring 3" centre to centre.
- The 4" Paired Row tip allows you to achieve great seedbed utilization.
- Extended wear life due to high-chrome tip with carbide inserts on the nose and underside.
- Carbide placement provides sharp cutting edges for excellent penetration.
- Hard facing is placed on critical wear points to ensure a long-lasting holder.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The sleek holder design combined with the front delivery concept reduces plugging and encourages trash clearance.

Double-Shoot Liquid



- Note: all information from the opener above applies to this product as well.
- Quick change liquid insert provides easy switching from granular to liquid.

SINGLE-SHOOT



684-KNH-1000 684-ASY-1000P

Single-Shoot



- Can be used with any replaceable tip allowing you to choose the tip for your conditions. (Tips sold separately.)
- Extra hard surfacing on critical wear areas to increase the life of the holder.

SIDE BAND



684-ASY-0711G (left)
684-ASY-0712G (right)



Optional P Tube



684-ASY-0711L (left)
684-ASY-0712L (right)

Double-Shoot Granular



- **Triple-Shoot Liquid Phosphorus Openers:**
684-ASY-0711GP, 684-ASY-0712GP

- The 2-1/4" Side Band tip provides you with the lowest draft and soil disturbance in the industry while ensuring great seed placement.
- Long-wearing carbide tip is reinforced where you need it – on the nose and wing.
- Carbide placement provides sharp cutting edges for excellent penetration.

Double-Shoot Liquid



- Quick change liquid insert provides easy switching from granular to liquid.
- **Triple-Shoot Liquid Phosphorus Openers:**
684-ASY-0711LP, 684-ASY-0712LP

- Hard facing is placed on critical wear points to ensure a long-lasting holder, proper seed placement and virtually no plugging.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The streamlined holder design combined with the front delivery concept reduces plugging and encourages trash clearance.



SEED HAWK

ADVANTAGE SERIES OPENERS

SIDE BAND



686-ASY-0711G (left)
686-ASY-0712G (right)



Optional P Tube



686-ASY-0711L (left)
686-ASY-0712L (right)

Double-Shoot Granular



- **Triple-Shoot Liquid Phosphorus Openers:**
686-ASY-0711GP, 686-ASY-0712GP

- The 2-1/4" Side Band tip provides you with the lowest draft and soil disturbance in the industry while ensuring great seed placement.
- Long-wearing carbide tip is reinforced where you need it – on the nose and wing.
- Carbide placement provides sharp cutting edges for excellent penetration.

Double-Shoot Liquid



- Quick change liquid insert provides easy switching from granular to liquid.
- **Triple-Shoot Liquid Phosphorus Openers:**
686-ASY-0711LP, 686-ASY-0712LP

- Hard facing is placed on critical wear points to ensure a long-lasting holder, proper seed placement and virtually no plugging.
- Replaceable tip to ensure high-wear points can be replaced at a lower cost.
- The streamlined holder design combined with the front delivery concept reduces plugging and encourages trash clearance.

JOHN DEERE CONSERVA PAK™

FERTILIZER OPENER



650-ASY-1000G



650-ASY-1000L



650-ASY-1000N

Granular Fertilizer



Liquid Fertilizer



NH₃ Fertilizer



- These openers replace the current John Deere fertilizer opener on the Conserva Pak™ drill.
- Comes in either granular, liquid or NH₃ fertilizer options with quick-remove liquid NH₃ tube for flexibility.

- Comes complete with a 3/4" carbide replaceable tip.
- Heat-treated and hard-surface holder for a long-wearing product.





SEED BOOTS

The quick change seed boot system consists of two parts: the seed boot holder which bolts on to the back of the shank and the seed boot attachment which fits into the holder and is secured with a bolt and nut. There are six different interchangeable attachments to choose from, each giving a different seed spread pattern. This system allows you to match your seed spread to the width of opener you are using. It is perfect for producers who want to switch back and forth from a wide seed spread behind a sweep to a narrow seed band behind a knife.



300 SERIES

SEED BOOT HOLDERS



300-HLD-4700

This holder has 1-3/4" (45 mm) bolt hole spacing. The bolt hole section is designed flat to fit the Bourgault and Ezee-On 47° shanks.



300-HLD-4710

This holder has 1-3/4" (45 mm) bolt hole spacing. The bolt hole section is curved to fit all 47° shanks except the Bourgault and Ezee-On.



300-HLD-5000

This holder has 2-1/4" (57 mm) bolt hole spacing. The bolt hole section is flat and has two sets of holes. The top set of holes should be used in almost all cases when mounting this holder to the shank. It fits on the Bourgault chisel plow shanks as well as the LH755 shank used on the Morris Magnum III and the Morris Concept 2000.



300-HLD-5010

This holder has 2-1/4" (57 mm) bolt hole spacing. The bolt hole section is curved to fit any chisel plow shank except the Bourgault and the Morris LH755 shank.

SEED BOOT ATTACHMENTS



300-ATM-1000

This spreader attachment will distribute the seed evenly in a 3" to 4" (76 mm to 100 mm) band. Seed spread may vary depending on sweep size, soil type and fan speed.



300-ATM-1006

The spreader attachment will distribute the seed evenly in a 6" (152 mm) row. Seed spread may vary depending on sweep size, soil type and fan speed. Works well for organic operations.



300-ATM-1010

The splitter attachment will place the seed into two distinct rows approximately 6" (150 mm) apart. Seed spread may vary depending on sweep size, soil type and fan speed.



300-ATM-1020

The straight attachment will spread the seed approximately 2-1/2" (63 mm). It works well with the quick change spoons, spikes or any size of sweep.

SEED BOOT ATTACHMENTS



300-ATM-1031

This knife attachment will place the seed in a very narrow band. It is designed to be used behind the 200-VRT-1000, 410-VRT-1000, 410-KNF-0800 and 410-KNF-0801.



300-ATM-1035

This knife attachment will place the seed in a very narrow band. It is designed to be used behind the 200-KNF-0810, 200-KNF-0811, 200-KNF-0813 and 200-KNH-4000.



300-ATM-1036

This knife attachment will place the seed in a band. There is hard facing on the side and the slot is wider than the 300-ATM-1035. It is designed to be used behind the 200-KNF-0815.



300-BNC-4414

This bolt and nut secure the quick change seed boot attachments into the holders.

SEED BOOTS



300-SDS-4755

Double-Shoot Paired Row Granular

This double-shoot paired row granular seed boot is designed to maintain seed/fertilizer separation. The fertilizer drops straight down which minimizes "bounce" while the seed is propelled forward and out which minimizes the possibility of seed/fertilizer contact. This product can be used on any C-shank. It has a slotted top hole that allows the boot to fit 1-3/4" to 2-1/4" (45 mm to 57 mm) bolt spacing. This seed boot is designed to use behind sweeps (minimum 7"). It accepts 1-1/4" (31 mm) O.D. hose. It provides a 6" paired row.

300-SQR-1500
300-SQR-1505

Square Tube

The square tube seed boot has a slotted top hole to fit 1-3/4" to 2-1/4" (45 to 57 mm) bolt spacing. It accepts 1-1/4" (32 mm) O.D. air hose. The 300-SQR-1500 seed boot is designed to fit curved bottom shanks. The 300-SQR-1505 seed boot is designed to fit flat bottom shanks.



FERTILIZER KNIVES

We understand the importance of your fertilizer operation and that you depend on your opener to get it done right. That is why we have designed a full line of fertilizer knives that are durable and stand up to most every condition. Choose from NH₃, Granular or Maxquip options.



200 Series
Speed-Loc™



410 Series
Speed-Loc™



47°
C-Shank



47° and 50°
C-Shank



FERTILIZER KNIVES



050-KNH-0820

47°
50°

N

Fits 47° and 50° C-Shank

- Enjoy the flexibility of using any replaceable tip from pages 16 and 17. (Tips sold separately.)
- The welded tube fits 1/2" (12 mm) cold-flow anhydrous kits.
- Not recommended for rocky areas.



200-KNH-4020

SL
200

N

Fits 200 Series Speed-Loc™

- Fits on any 200 Series adapter for easy installation and fast replacement.
- Enjoy the flexibility of using any replaceable tip from pages 16 and 17. (Tips sold separately.)
- The welded tube fits 1/2" (12 mm) cold-flow anhydrous kits.
- Not recommended for rocky areas.

200-KNF-7521
200-KNF-7520SL
200

N

Fits 200 Series Speed-Loc™

- Fits on any 200 Series adapter for easy installation and fast replacement.
- Available with carbide nose (7521) or without (7520). The carbide provides extra wear life and much better penetration.
- The welded tube fits 1/2" (12 mm) (200-KNF-7521 & 7520) cold-flow anhydrous kits or 3/8" (9 mm) (200-KNF-7531 & 7530) hot-gas anhydrous kits.
- Shorter tube length makes this opener better for cultivators and chisel plows.
- Welded tip makes this opener better in rocky conditions.

200-KNF-7525
200-KNF-7524SL
200

N

Fits 200 Series Speed-Loc™

- Fits on any 200 Series adapter for easy installation and fast replacement.
- Available with carbide nose (7525) or without (7524). The carbide provides extra wear life and much better penetration.
- The tube fits 1/2" (12 mm) cold-flow anhydrous kits.
- The longer tube length makes this opener better for air seeders and air drills.
- Welded tip makes this opener better in rocky conditions.



410-KNF-0825
410-KNF-0824

SL
410

N

Fits 410 Series Speed-Loc™

- Fits on any 410 Series adapter for easy installation and fast replacement.
- Available with carbide nose (0825) or without (0824). The carbide provides extra wear life and much better penetration.
- The fertilizer tube fits 1/2" (12 mm) (410-KNF-0825 & 0824) cold-flow anhydrous kits or 3/8" (9 mm) (410-KNF-0830 & 0831) hot-gas anhydrous kits.
- This opener is designed for heavy-duty use.
- Welded tip makes this opener better in rocky conditions.



600-KNH-7520

47°
50°

N

Fits 47° and 50° C-Shank

- This is the most durable opener that we provide for fertilizer placement.
- The tube fits 1/2" (12 mm) cold-flow anhydrous kits.
- Choose from a 3/4" (19 mm) chrome (600-TIP-7500) or carbide (600-TIP-7501) tip. (Tips sold separately.)
- Fits 1-3/4" (44 mm) to 2-1/2" (63 mm) bolt hole spacing. Use on a 43° shank with the addition of a 7° wedge.



600-KNH-7530

47°
50°

N

Fits 47° and 50° C-Shank

- This is the most durable opener that we provide for fertilizer placement.
- The tube fits 3/8" (9 mm) hot-gas anhydrous kits.
- Choose from a 3/4" (19 mm) chrome (600-TIP-7500) or carbide (600-TIP-7501) tip. (Tips sold separately.)
- Fits 1-3/4" (44mm) to 2-1/2" (63 mm) bolt hole spacing. Use on a 43° shank with the addition of a 7° wedge.

Not sure which
bolts you need?

Refer to our bolt length chart
on pages 78–80.



FERTILIZER KNIVES



410-KNF-7551

SL
410

Fits 410 Series Speed-Loc™

N
G

- Fits on any 410 Series adapter for easy installation and fast replacement.
- The tube fits 1/2" (12 mm) (410-KNF-7551) cold-flow anhydrous kits or 3/8" (9 mm) (410-KNF-07553) hot-gas anhydrous kits. An additional 1-1/4" tube is used for granular fertilizer. This tube also accepts 1-1/8" tube with 880-BSH-1130.
- This opener is designed for heavy-duty use.
- Welded 3/4" (19 mm) tip makes this opener better in rocky conditions.
- Not recommended for seeding.



600-KNH-7552

47°
50°N
G

Fits 47° and 50° C-Shank

- The tube fits 1/2" (12 mm) cold-flow anhydrous kits. An additional 1-1/4" tube is used for granular fertilizer. This tube also accepts 1-1/8" tube with 880-BSH-1130.
- Choose from a 3/4" (19 mm) chrome (600-TIP-7500) or carbide (600-TIP-7501) tip. (Tips sold separately.)
- Fits 1-3/4" (44 mm) to 2-1/2" (63 mm) bolt hole spacing. Use on a 43° shank with the addition of a 7° wedge.
- This is the most durable opener that we provide for fertilizer placement.



600-KNH-7540

47°
50°

G

Fits 47° and 50° C-Shank

- Accepts 1-1/4" (31 mm) and 1-1/8" (28 mm) granular hose (with 880-BSH-1130).
- Choose from a 3/4" (19 mm) chrome (600-TIP-7500) or carbide (600-TIP-7501) tip. (Tips sold separately.)
- Fits 1-3/4" (44 mm) to 2-1/2" (63 mm) bolt hole spacing. Use on a 43° shank with the addition of a 7° wedge.
- This is the most durable opener that we provide for fertilizer placement.



599-KNH-7540

47°

G

Fits 47° C-Shank

- Accepts 1-1/4" (31 mm) and 1-1/8" (28 mm) granular hose (with 880-BSH-1130).
- Choose from a 3/4" (19 mm) chrome (600-TIP-7500) or carbide (600-TIP-7501) tip. (Tips sold separately.)
- 1-3/4" (45 mm) bolt hole spacing designed to fit on 47° shank.
- This is the most durable opener that we provide for fertilizer placement.
- This opener is designed to fit on the Bourgault shank better than the 600 Series.

FERTILIZER ACCESSORIES



600-HHA-0750



Hose Holder

- Stainless steel hose holder.
- Mount on any C-shank.
- Completely height adjustable.
- Holds the NH₃ hose in place.

600-NUT-3754



600-BLT-5004



Bolt and Nut Combo

- Use to hold the 600 Series tips onto the 599 and 600 Series knife holders.

600-BNC-5000



600-TIP-7500



Chrome Tip

- 3/4" chrome tip fits all 599 and 600 Series knife holders.
- Does not fit 600-KNH-7562.



600-TIP-7501



Carbide Tip

- 3/4" chrome tip with carbide on the nose fits all 599 and 600 Series knife holders.
- Does not fit 600-KNH-7562.



600-TIP-7507



Carbide Tip with wing for liquid application

- 3/4" carbide tip fits 600-KNH-7562.
- Allows vertical and horizontal separation when shooting liquid.



FERTILIZER KNIVES



675-ASY-1801GM



675-ASY-1801GN

47°
50°

Fits 47° and 50° C-Shank

- Accepts 1-1/4" and 1-1/8" granular hose (insert included).
- This opener comes standard with a 3/4" carbide tip. Inquire about other tip options.
- 675-ASY-1801GN accepts 1/2" (12 mm) hose for cold-flow anhydrous kits.
- 675-ASY-1801GM accepts Maxquip anhydrous systems.

MID ROW SHANKS



685-ASY-1801G



685-ASY-1801M



Fits Bourgault 3310 & 3320 PHD

- Use on the Bourgault 3310 & 3320 Mid Row Shank.
- Deliver any one of the following fertilizers: granular, liquid, NH₃ or NH₃ Maxquip.
- 685-ASY-1801GM and 685-ASY-1801GN give you the flexibility to switch between products or place both products down at the same time.
- This opener comes standard with a 3/4" carbide tip. Inquire about other tip options.
- Fits 1/2" (12 mm) cold-flow anhydrous kits or Maxquip anhydrous systems.
- Accepts 1-1/2" granular hose.



685-ASY-1801N



685-ASY-1801L



685-ASY-1801GM



685-ASY-1801GN





TILLAGE

What's in a sweep? Most sweeps on the market today are made with very comparable material. If the material used doesn't set the sweep apart, then what makes the difference in the life and quality of a sweep?

- Precise Heat Treatment
- Long-Lasting Design
- Consistent Quality
- Innovative Speed-Loc™



200 SERIES

SPEED-LOC™ PRODUCTS

4"



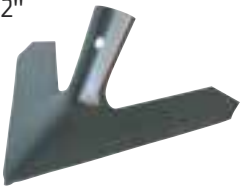
7"



10"



12"



14"



SIZE

THICKNESS

PRODUCT NO.

4" (100 mm)	1/4" (6 mm)	200-PWV-0400
5" (140 mm)	1/4" (6 mm)	200-PWV-0500
5" (140 mm)	5/16" (8 mm)	200-PWV-0508
7" (180 mm)	1/4" (6 mm)	200-PWV-0700
7" (180 mm)	5/16" (8 mm)	200-PWV-0708
9" (230 mm)	1/4" (6 mm)	200-PWV-0900
9" (230 mm)	5/16" (8 mm)	200-PWV-0908
10" (254 mm)	1/4" (6 mm)	200-PWV-1000
10" (254 mm)	5/16" (8 mm)	200-PWV-1008
11" (280 mm)	1/4" (6 mm)	200-PWV-1100
11" (280 mm)	5/16" (8 mm)	200-PWV-1108
12" (305 mm)	1/4" (6 mm)	200-PWV-1200
12" (305 mm)	5/16" (8 mm)	200-PWV-1208
13" (330 mm)	1/4" (6 mm)	200-PWV-1300
13" (330 mm)	5/16" (8 mm)	200-PWV-1308
14" (355 mm)	1/4" (6 mm)	200-PWV-1400
14" (355 mm)	5/16" (8 mm)	200-PWV-1408
16" (406 mm)	5/16" (8 mm)	200-PWV-1608*
18" (457 mm)	5/16" (8 mm)	200-PWV-1808*

5"



9"



11"



13"



16"



*Available in North America by special order only.

This sweep is only available in 5/16" (8 mm) thickness and was developed for Western Europe. It is not recommended for most North American field conditions.



200-GFO-0308

This "Goosefoot" tillage tool is 5/16" (8 mm) thick and 2-1/2" (63 mm) wide. It is designed specifically for vibrating S-tine cultivators.



200-SPK-0200

This quick change spike is 5/8" (15 mm) thick, 2-1/4" (57 mm) wide and 6" (150 mm) long. It has a hardened wear pad (52-56 HRC) for extra life. This tool is ideal for primary tillage or banding fertilizer.



200-SPK-0215

This quick change spike is 5/8" (15 mm) thick, 2-1/4" (57 mm) wide and 6" (150 mm) long. It has a hardened wear pad (52-56 HRC) that extends to the top of the stem to prevent wear in abrasive soil or when working at greater depths.



200-SPK-0230

This quick change spike is 5/8" (15 mm) thick, 2" (50 mm) wide and 4" (102 mm) long. It has a hardened wear pad (52-56 HRC) for extra life. This tool is made specifically for slurry injection.



200-PWV-0405

This sweep is 1/4" (6 mm) thick and 4" (100 mm) wide. It is designed mainly for fall tillage or deep working. It has a hardened wear pad (52-56 HRC) which increases the life expectancy. The nose on this sweep runs 1/2" (12 mm) lower than the other 200 Series sweeps. This increased pitch improves penetration in hard or compacted ground.



200-PWV-0428*

This sweep is 5/16" (8 mm) thick and 4" (100 mm) wide. It is designed mainly for fall tillage or deep working. It has a hardened wear pad (52-56 HRC) which increases its life expectancy.



200-PWV-0528*

This sweep is 5/16" (8 mm) thick and 5" (127 mm) wide. It is designed mainly for fall tillage or deep working. It has a hardened wear pad (52-56 HRC) which increases its life expectancy.



200-PWV-0738*

This sweep is 5/16" (8 mm) thick and 4" (100 mm) wide with a 4" wide extended wear pad.



200-PWV-0928*

This sweep is 5/16" (8 mm) thick and 9" (230 mm) wide. The wear pad extends up the entire stem.

*Available in North America by special order only.



410 SERIES

SPEED-LOC™ PRODUCTS

4"



8"



12"



16"



SIZE

THICKNESS

PRODUCT NO.

4" (100 mm)

1/4" (6 mm)

410-PWV-0400

6" (150 mm)

1/4" (6 mm)

410-PWV-0600

6" (150 mm)

5/16" (8 mm)

410-PWV-0608

8" (200 mm)

1/4" (6 mm)

410-PWV-0800

8" (200 mm)

5/16" (8 mm)

410-PWV-0808

10" (254 mm)

1/4" (6 mm)

410-PWV-1000

10" (254 mm)

5/16" (8 mm)

410-PWV-1008

12" (305 mm)

1/4" (6 mm)

410-PWV-1200

12" (305 mm)

5/16" (8 mm)

410-PWV-1208

14" (355 mm)

1/4" (6 mm)

410-PWV-1400

14" (355 mm)

5/16" (8 mm)

410-PWV-1408

16" (406 mm)

1/4" (6 mm)

410-PWV-1600

16" (406 mm)

5/16" (8 mm)

410-PWV-1608

18" (457 mm)

1/4" (6 mm)

410-PWV-1800

18" (457 mm)

5/16" (8 mm)

410-PWV-1808

6"



10"



14"



18"





410-PWV-0418

SL
410

Sweep with Hardened Wear Pad

- 5/16" (8 mm) thick and 4" (100 mm) wide.
- 3/8" hardened wear pad (52-56 HRC) for longer life.
- Runs at a 13° pitch, which is steeper than the regular 410 sweep.



410-PWV-0518

SL
410

Sweep with Hardened Wear Pad

- 5/16" (8 mm) thick and 5" (140 mm) wide.
- 3" hardened wear pad.
- Runs at a 3° pitch, which is the same as a standard sweep.



410-SPK-0200

SL
410

Spike

- Heavy-duty quick change spike.
- 2" (50 mm) wide, 5/8" (15 mm) thick and 9" (230 mm) long.
- Hardened wear pad (52-56 HRC) for long life.
- Works well for primary tillage or for banding fertilizer.



BOLT-ON SERIES

Our bolt-on sweeps fit all makes and models of tillage equipment.

The Extended Stem Advantage

The stem or neck on our bolt-on sweeps is longer than that of our competitors. This extended stem allows us to punch the bolt holes higher than on any other brand of sweeps. This reduces stem breaking and results in less wear on the shank and less wear and stone damage to the bottom bolt. Less wear on the shank extends the useful life of the sweep, and less stone damage on the bottom bolt means fewer problems when changing shovels. The extended stem feature saves you time and money.



043 Series

For heavy-duty chisel plows with 43° shanks and 2-1/4" to 2-1/2" (57 mm to 64 mm) hole centres.

SIZE	THICKNESS	PRODUCT NO.
8" (200 mm)	1/4" (6 mm)	043-PWV-0800
10" (254 mm)	1/4" (6 mm)	043-PWV-1000
12" (305 mm)	1/4" (6 mm)	043-PWV-1200
14" (355 mm)	1/4" (6 mm)	043-PWV-1400
16" (420 mm)	1/4" (6 mm)	043-PWV-1600
18" (460 mm)	1/4" (6 mm)	043-PWV-1800

047 Series

For field cultivators with 47° shanks and 1-3/4" (45 mm) hole centres.

SIZE	THICKNESS	PRODUCT NO.
4" (100 mm)	1/4" (6 mm)	047-PWV-0400
9" (230 mm)	1/4" (6 mm)	047-PWV-0900
10" (254 mm)	1/4" (6 mm)	047-PWV-1000
11" (280 mm)	1/4" (6 mm)	047-PWV-1100
12" (305 mm)	1/4" (6 mm)	047-PWV-1200
13" (330 mm)	1/4" (6 mm)	047-PWV-1300

050 Series

For heavy-duty chisel plows with 50° shanks and 2-1/4" (57 mm) hole centres.

SIZE	THICKNESS	PRODUCT NO.
6" (150 mm)	1/4" (6 mm)	050-PWV-0600
8" (200 mm)	1/4" (6 mm)	050-PWV-0800
10" (254 mm)	1/4" (6 mm)	050-PWV-1000

SIZE	THICKNESS	PRODUCT NO.
12" (305 mm)	1/4" (6 mm)	050-PWV-1200
14" (355 mm)	1/4" (6 mm)	050-PWV-1400
16" (420 mm)	1/4" (6 mm)	050-PWV-1600
18" (460 mm)	1/4" (6 mm)	050-PWV-1800

Not sure which bolts you need? | Refer to our bolt length chart on pages 78–80.



070-RSP-0200A

47°
50°

Reversible Spike

- 2" (50 mm) wide, 5/8" (16 mm) thick and 14" (355 mm) long.
- 1-3/4" to 2-1/2" (45 to 57 mm) bolt hole spacing.
- Shorter than our other two reversible spikes, it is designed for light- to medium-duty field cultivators or for chisel plows where ground clearance in transport is a concern.



070-RSP-0210A

50°

Reversible Spike

- 2" (50 mm) wide, 5/8" (16 mm) thick and 17" (431 mm) long.
- 2-1/4" (57 mm) bolt hole spacing.
- Flat through the bolt hole section, it is designed specifically to fit the Bourgault chisel plow as well as the Morris LH 755 shank.



070-RSP-0220A

50°

Reversible Spike

- 2" (50 mm) wide, 5/8" (16 mm) thick and 16-1/2" (419 mm) long.
- 2-1/4" to 2-1/2" (57 to 63 mm) bolt hole spacing.
- Curved at the bolt hole section, it can be used on any chisel plow shank except the Bourgault and Morris LH 755 shank.



070-RCH-0451

47°

Reversible Chisel

- 5/16" (8 mm) thick and 4" (100 mm) wide.
- 1-3/4" (45 mm) bolt hole spacing to fit light- and medium-duty field cultivators.
- Use mostly for primary tillage in the fall or early spring.



070-RCH-0452

50°

Reversible Chisel

- 5/16" (8 mm) thick and 4" (100 mm) wide.
- 2-1/4" to 2-1/2" (57 to 63 mm) bolt hole spacing.
- Use mostly for primary tillage in the fall or early spring.



ACCESSORIES



100-DRV-1010

This driver should be used for installing the following knives: 200-KNF-0861, 200-KNF-0863, 200-KNF-7510, 200-KNF-7511, 200-KNF-7518, 200-KNF-7542, 200-KNF-7520, 200-KNF-7521, 200-KNF-7524, 200-KNF-7525, 200-KNF-7530 and 200-KNF-7531.



100-DRV-1020

This driver is used when installing the 200-HOE-1700 onto the adapter.



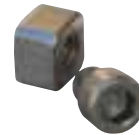
200-DRV-1012

This driver should be used for installing the 200-KNF-0813.



200-DRV-1013

This driver should be used when installing knives with the following tips: 200-TIP-2011, 200-TIP-0300, 200-TIP-3001, 200-TIP-3011 and 200-TIP-4011. It should also be used when installing the 200-KNF-0501, 200-KNF-0571 and 200-KNF-0575.



200-BNC-3100

Stainless steel square nut and bolt. Used to secure any quick change tip. This combination is made up of 200-BLT-3102 and 200-NUT-3101.



200-DRV-1030

This driver should be used when installing the following openers: 200-KNF-0505, 200-VRT-1000, 200-VRT-1011, 200-VRT-1016, 200-VRT-1061 and 410-VRT-1000. It should also be used when installing knives with the following tips: 200-TIP-0503, 200-TIP-0507, 200-TIP-0523, 200-TIP-0524, 200-TIP-0531 and 200-TIP-1011.



100-WDG-0700

This 7° urethane wedge is designed to correct the pitch of the 100-QCA-5010 and the 200-QCA-5010 adapters on 43° shanks.



200-WDG-0206

This 2° urethane wedge has 45 mm to 80 mm bolt hole spacing. It is used to obtain proper sweep pitch on certain shanks.



200-WDG-0506

This 5° urethane wedge has 45 mm to 80 mm bolt hole spacing. It is used to obtain proper sweep pitch on certain shanks.



200-WDG-1000

This 10° urethane wedge has 45 mm to 80 mm bolt hole spacing. It is used to obtain proper sweep pitch on certain shanks.



200-WDG-1006

This 10° urethane wedge has 45 mm to 80 mm bolt hole spacing. It is used to obtain proper sweep pitch on certain shanks.



400-WDG-0300

This 3° urethane wedge is designed to correct the pitch of the 410-QCA-5010 adapter on a 47° chisel plow shank, as well as the 50° bolt-on sweeps.



400-WDG-0700

This 7° urethane wedge is designed to correct the pitch of the 410-QCA-5010 adapter when installing on a 43° shank. It should also be used with the 600 Series knives when installing on a 43° shank.



880-WDG-0300

This cast wedge adapter is designed for our 047, 610 and 612 seeding openers on all John Deere shanks except the John Deere 1830.



880-WDG-0301

This cast wedge adapter is designed for our 047, 610 and 612 seeding openers on all 50° curved bottom shanks including the John Deere 1830 but excluding all other John Deere models.



200-QAS-4711

This sub-plate is used in conjunction with the 200-QCA-4710 adapter on the Kongskilde VFM shank.



200-QAS-4712

This sub-plate is used in conjunction with the 200-QCA-4710 adapter on an S-tine. S-tines with a single hole can now use the Speed-Loc™ system.



400-DRV-1000

This driver can be used when installing any of the quick change sweeps and spoons.



400-DRV-1010

This driver should be used when installing the following knives: 200-KNF-0810, 200-KNF-0811, 410-KNF-0800 and 410-KNF-0801. It should also be used for installing knives with the following tips: 200-TIP-0800 and 200-TIP-0801.



100-HAM-4000

This 4 lb (1.8 kg) hammer is ideal for installing all quick change products.



200-REL-1010

The speed-release tool must be used to remove 200 and 410 Series sweeps and openers off the Speed-Loc™ adapters.



047-ACC-1001

Helps direct the flow of seed in a focused row behind the opener. Use with 047-ASY-1000 or 675 Series openers.



680-ACC-1000

Helps direct the flow of seed in a focused row behind the opener. Use with 680-ASY-1000 openers prior to 2012.



300-BSH-1200

This bushing adapts from a 1-1/8" (28 mm) O.D. air hose up to a 1-1/4" (31 mm) O.D. air hose.



300-BSH-1205

This bushing adapts from 1-1/8" (28 mm) O.D. air hose to 1-1/8" (28 mm) O.D. air hose.



880-BSH-1130

This bushing is needed when you are using 1-1/8" (28 mm) hose.



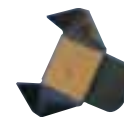
880-BSH-1150

This bushing adapts from 1-1/4" (31 mm) O.D. air hose up to a 1-1/2" (31 mm) O.D. air hose.



880-CPL-2500

This coupler is used to attach an 1-1/4" O.D. liquid phosphorous tube. Included with all new liquid phosphorous openers.



880-HCL-0001

This clip eliminates hose movement, as the sharp corners imbed into the granular pipe.



880-HCL-0002

Spacer clip may be required on the rear tube of the following side band openers: 683, 684, 686, 693, 694 where 1-1/8" hose is used.



880-ORF-0001

This orifice is used to concentrate and direct the flow of liquid fertilizer on the 200-VRT-1061 and 200-KNF-0863.



047-ACC-1002

Allows you to adapt to any shank with an open bottom hole. Keeps the bottom bolt in place on the John Deere 1820, 1830 & 2400.



880-ASY-1000

Adapt a .085 mm Maxquip system with our NH₃ (1/2") fertilizer openers. This kit gives you everything you need to adapt to an existing line.



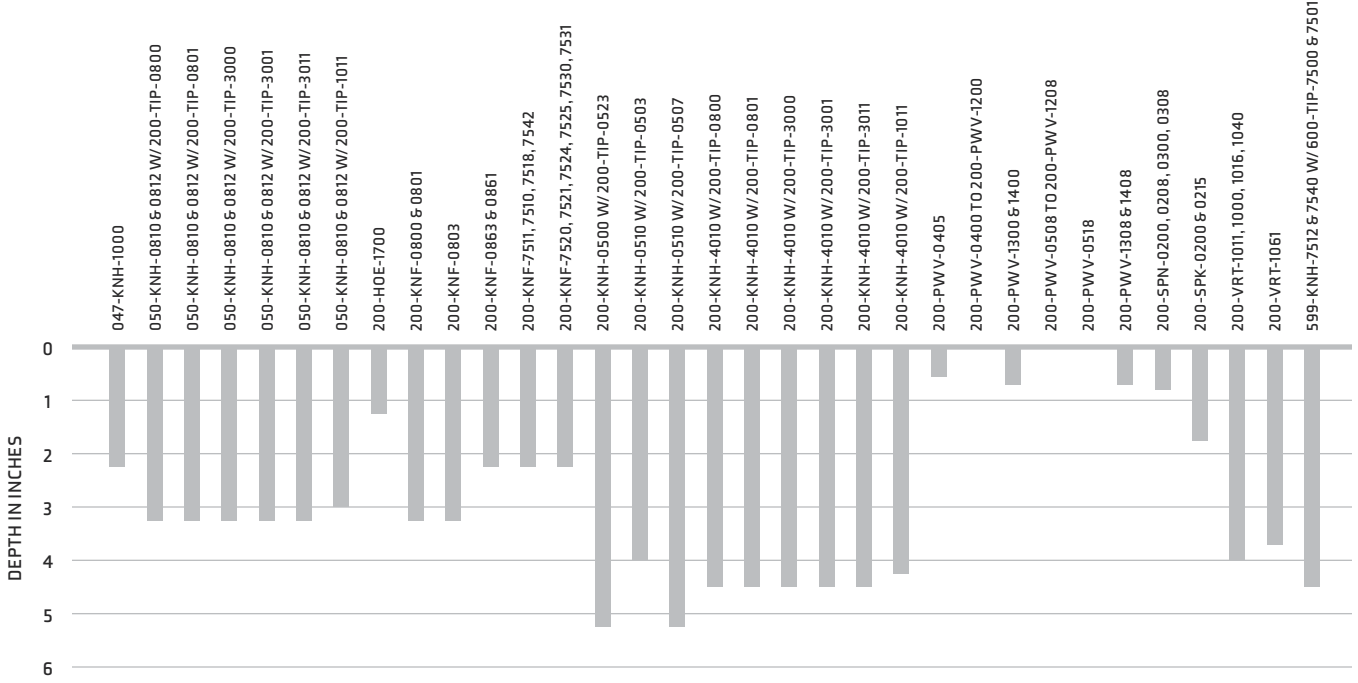
680-ACC-0001

Spacer plate is required for the Concord when installing any Edge-On product.

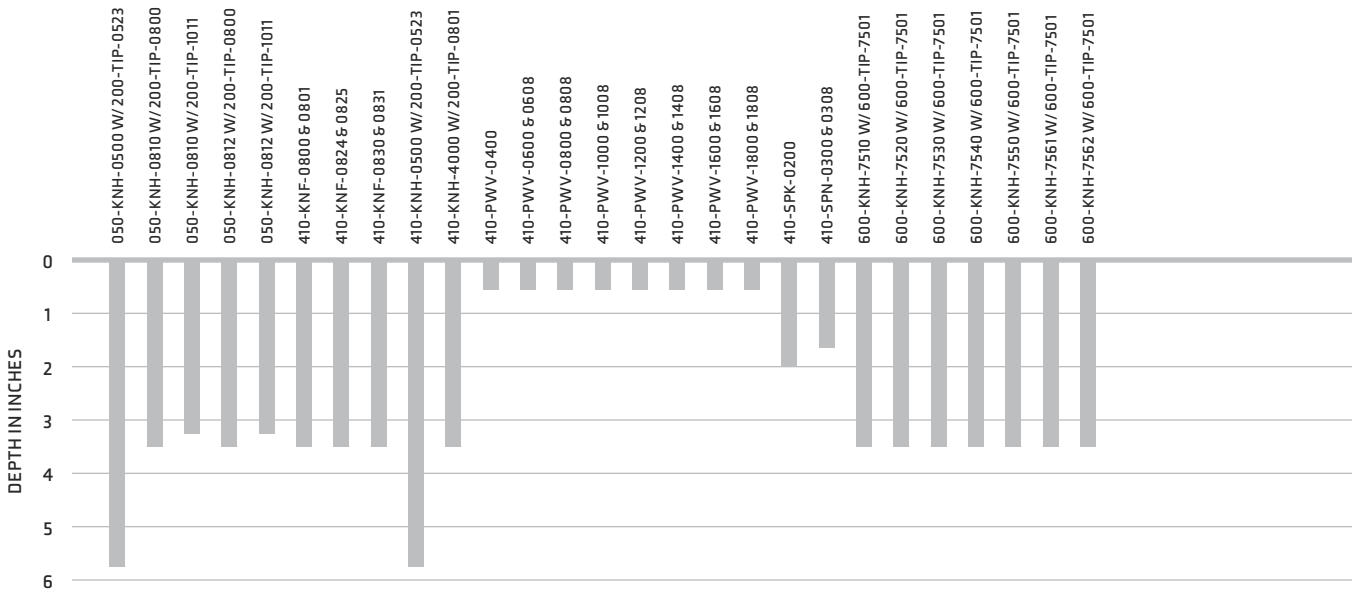


PRODUCT DEPTH CHART

200 SERIES



410 SERIES





200-SLC-1001

Replacement bushing for all 200 Series adapters as well as the 410-QCA-5050. Comes complete with dust seal.



200-SLC-1010

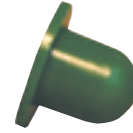
Replacement dust seal for all 200 and 410 Series Speed-Loc™ adapters.



200-SLC-1020

Replacement locking pin for all 200 and 410* Series adapters.

**After Nov. 1/08*



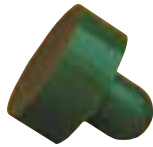
200-SLC-1030

Replacement spring ball for the 200-QCA-4700 adapters.



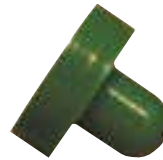
200-SLC-1035

Replacement spring ball for the 200-QCA-4710, 200-QCA-5000 and 200-QCA-5010 adapters.



200-SLC-1037

Replacement spring ball for the 200-QCA-5020 and 410-QCA-5050 adapters.



200-SLC-1038

Replacement spring ball for 200-QCA-5020 adapter for special applications.



200-SLC-1039

Replacement spring ball for 200-QCA-5030 adapters.



410-SLC-1001

Replacement bushing for the 410-QCA-5000, 410-QCA-5010 and 410-QCA-5020. Comes complete with dust seal.



410-SLC-1022*

Replacement locking pin for all the 410 Series adapters* Go to 200-SLC-1020 if 410 Series adapter was purchased after Nov. 1/08.

**Prior to Nov. 1/08*



410-SLC-1030

Replacement spring ball for the 410-QCA-5000, 410-QCA-5010 and 410-QCA-5020.

Note: a complete package for the 410 Series can be ordered including bushing, spring ball, pin and dust seal. Order part number 410-SLC-1050.



SPEED-LOC™ ADAPTER CHART

FOR NORTH AMERICA & AUSTRALIA

MAKE & MODEL	SHANK DEGREE	BOLT SIZE	HOLE CENTRE	200 SERIES		410 SERIES						
				200-QCA-4700	200-QCA-4710	200-QCA-5000	200-QCA-5010	200-WDG-0700	410-QCA-5000	410-QCA-5010	410-WDG-0300	410-WDG-0700
AFM												
180, 200, 250, 880	43°	7/16	1-3/4	■	■		* FOR KNIFE OPENERS ONLY					
150, 2300, 310, 300	50°	1/2	2-1/4			■						
350 SCARICHISEL	50°	1/2	2-1/4			■						
ANDERSON												
FIELD CULTIVATORS	47°	3/8	1-3/4	■								
CHISEL PLOWS	50°	1/2	2-1/4			■						
BOURGAULT												
FIELD CULTIVATORS 6200, 6800, 8800, 8810, 8910	47°	1/2	1-3/4	■								
5710, 5810 AIR DRILL	47°	1/2	1-3/4	■								
CHISEL PLOWS 9200, 9400, 9800	50°	1/2	2-1/4				■					
3310, 3320 EDGE-ON							(NO ADAPTER FOR THIS APPLICATION)					
BRADY												
FIELD CULTIVATORS	43°	3/8	1-5/8				(NO ADAPTER FOR THIS APPLICATION)					
CHISEL PLOWS	50°	7/16	2-1/4			■						
BRILLION												
HFCT MO	47°	7/16	1-5/8	■								
BUSH HOG												
FIELD CULTIVATORS	47°	3/8	1-3/4	■								
CHISEL PLOWS	50°	7/16	2-1/4			■						
CASE												
FC, FCW, FCM, 10, 50, 55, 645	47°	3/8	1-3/4	■								
4700, 4900, 5000, 645	43°	1/2	2-1/4			■	■					
CASE IH												
45, 4300, 4500, 4600, 4700, 4800, 4900	47°	7/16	1-3/4	■								
VIBRASHANK	47°	7/16	1-3/4	■								
VIBRACHISEL 5600, 5700	43°	1/2	2-1/4			■	■					
5800, 5850, 5900	50°	1/2	2-1/4			■	■					
PTX 300, PTX 600	50°	1/2	2-1/4			■	■					
ATX AIR DRILL WITH EDGE-ON 84° SHANK							(NO ADAPTER FOR THIS APPLICATION)					
ATX 400, 700 AIR HOE DRILL 350 LB OR 550 LB TRIP	50°	1/2	2-1/4			■						
CONCORD												
C-SHANKS	50°	1/2	2-1/4			■	■					
EDGE-ON SHANKS							(NO ADAPTER FOR THIS APPLICATION)					
CCIL												
202, 179, 279, 379	47°	3/8	1-3/4	■								
203, 204, 205	43°	1/2	2-1/2			■	■					
806, 807, 808	43°	1/2	2-1/2			■	■					
CHISEL PLOW (THICK SHANK)	50°	7/16	2-1/4			■						
CNH (DMI)												
FIELD CULTIVATORS	47°	7/16	1-3/4	■								
DEGELMAN												
FIELD CULTIVATORS	47°	7/16	1-3/4	■								
500	50°	7/16	2-1/4			■	■					
3000-2	50°	7/16	2-1/4			■	■					
DEMSTER												
CHISEL PLOWS	54°	7/16	2-1/4				(NO ADAPTER FOR THIS APPLICATION)					
EDWARDS												
CHISEL PLOWS	50°	7/16	2-1/4			■	■					
FORWARD												
BOURGAULT TYNE												
280, 2700, 2800, 8800	47°	1/2	1-3/4	■								
FUSION DELTA	47°	1/2	1-3/4	■								
3000 & 400 SERIES C/P	50°	1/2	2-1/4			■	■					

MAKE & MODEL	SHANK DEGREE	BOLT SIZE	HOLE CENTRE	200 SERIES		410 SERIES						
				200-QCA-4700	200-QCA-4710	200-QCA-5000	200-QCA-5010	200-WDG-0700	410-QCA-5000	410-QCA-5010	410-WDG-0300	410-WDG-0700
EZEE-ON												
FIELD CULTIVATORS 3500, 3550, 5550	47°	1/2	1-3/4	■								
6000 WITH FIELD CULTIVATOR SHANK OPTION	47°	1/2	1-3/4	■								
6000 WITH CHISEL PLOW SHANK OPTION	50°	1/2	2-1/4			■	■					
ALL CHISEL PLOWS INCLUDING 7450	50°	1/2	2-1/4			■	■					
7560, 7550	47°	1/2	1-3/4	■								
FLEXI-COIL												
200, 400, 800	47°	7/16	1-3/4	■								
300, 340, 600	50°	1/2	2-1/2			■	■					
820 & ST820 WITH 350 LB & 550 LB TRIPS	47°	1/2	2-1/2	■								
820 & ST820 WITH 550 LB & 650 LB TRIPS	50°	1/2	2-1/4			■	■					
5000 & 7500 DEPENDING ON SHANK OPTION	47°	1/2	2-1/2	■								
5000 & 7500 DEPENDING ON SHANK OPTION	50°	1/2	2-1/2			■	■					
EDGE-ON							(NO ADAPTER FOR THIS APPLICATION)					
5000HD & 5500 AIR HOE DRILL 350 LB OR 550 LB TRIP	50°	1/2	2-1/2			■						
FRIGGSTAD												
FIELD CULTIVATORS	47°	7/16	1-3/4	■								
CHISEL PLOWS (OLDER MODELS)	50°	7/16	2-1/4			■	■					
CHISEL PLOWS	50°	1/2	2-1/4			■	■					
GASON												
5100 SERIES	46°	7/16	1-3/4	■								
SCARITILL & EH SCARITILL	47°	1/2	BOTH	■								
7100 ECOTILL	50°	1/2	2-1/4			■	■					
GESSNER												
HR1200	50°	1/2	2-1/4			■	■					
GLENCOE												
PC, MPC, PCMW	47°	3/8	1-3/4	■								
CHISEL PLOWS	47°	7/16	2-1/4			■	■					
HIGH CLEARANCE	50°	7/16	1-2/4			■	■					
GRAHAM												
CHISEL PLOWS	50°	1/2	2-1/4			■	■					
400, 500, 1600, 2600	54°	7/16	2-1/4				(NO ADAPTER FOR THIS APPLICATION)					
GREAT PLAINS												
8000, 7000	47°	7/16	1-3/4	■								
GYRAL IMPLEMENTS												
PENETRATOR T23, T25	43°	1/2	BOTH			■	■					
AG BN055 T30	43°	7/16	BOTH			■	■					
GYSLER												
CHISEL PLOWS	47°	7/16	2-1/4			■	■					
HESSTON												
FIELD CULTIVATORS	47°	1/2	1-3/4	■								
CHISEL PLOWS	50°	1/2	2-1/4			■	■					
HINKER												
FIELD CULTIVATORS	47°	7/16	1-3/4	■								
CHISEL PLOWS	50°	1/2	2-1/4			■	■					
HORWOOD BAGSHAW												
350 SCARIBAR EDGE-ON	47°	1/2	1-3/4	■								
HORWARD												
CHISEL PLOWS**	50°	9/16	2-1/4			■	■					
INTERNATIONAL												
45, 46, 47	47°	7/16	1-3/4	■								
10, 50, 55, 75, 509, 645	43°	1/2	2-1/4			■	■					

MAKE & MODEL	SHANK DEGREE	BOLT SIZE	HOLE CENTRE	200 SERIES					410 SERIES				
				200-QCA-4700	200-QCA-4710	200-QCA-5000	200-QCA-5010	200-WDG-0700	410-QCA-5000	410-QCA-5010	410-WDG-0300	410-WDG-0700	800-WDG-0300
JANKE													
UNIV DIRECT DRILL	50°	1/2	2-1/4										
U/D DRILL (HYD) EARLY	50°	1/2	2-1/4										
JEFFROY													
450	47°	3/8	1-3/4										
JOHN DEERE													
1000, 1010, 1050	43°	3/8	1-5/8	(NO ADAPTER FOR THIS APPLICATION)									
726, 2210, 2200	47°	7/16	1-3/4										
940, 960, 985	47°	7/16	1-3/4										
730	47°	1/2	1-3/4										
735, 737, 610, 680, 685, 1600, 1610, 1650	50°	1/2	2-1/4										
1810, 1820, 1830, 1835 WITH 350 LB TRIPS	47°	1/2	1-3/4										
1810, 1820, 1830, 1835 WITH 500 LB TRIPS	50°	1/2	2-1/4										
2400, 2410	50°	1/2	2-1/4										
JOHN SHEARER													
UNIVERSAL CULTIVATOR	47°	7/16	1-3/4										
CHISEL PLOWS	50°	1/2	2-1/4										
KONGSKILDE													
C-SHANK	47°	1/2	1-3/4										
S-TINE	47°	7/16	1-5/8										
KRAUSE													
600, 900, 3100, 4200	47°	7/16	1-3/4										
4000	50°	1/2	2-1/4										
5630, 5635	47°	1/2	1-3/4										
LEON													
CP77	43°	7/16	2-1/4										
ALL OTHER LEON CHISEL PLOWS	50°	1/2	2-1/4										
FIELD CULTIVATORS	47°	7/16	1-3/4										
MASSEY FERGUSON													
160	47°	3/8	1-3/4										
259	47°	7/16	1-3/4										
124, 125, 126, 128, 133	54°	7/16	2-1/4	(NO ADAPTER FOR THIS APPLICATION)									
MF 7300 CHISEL PLOW	50°	1/2	2-1/4										
MORRIS													
L225, L233, L240, L320	47°	3/8	1-3/4										
CHALLENGER II, 9000, 9100	47°	1/2	1-3/4										
MAXIM, MAXIM II	47°	1/2	1-3/4										
MAXIM III	47°	1/2	1-3/4										
CONCEPT 2000 WITH 400 LB TRIP	47°	1/2	1-3/4										
CONCEPT 2000 WITH 550 LB TRIP	47°	1/2	1-3/4										
CONCEPT 2000 WITH LH755 LB TRIP	50°	1/2	2-1/4										
220, 4, 5, 6, 7	43°	7/16	2-1/4										
MAGNUM I	43°	1/2	2-1/4										
912, 8900, 9000, MAGNUM II	50°	1/2	2-1/4										
MAGNUM III WITH LH755 LB TRIP	50°	1/2	2-1/4										
EDGE-ON (CONTOUR DRILL)													
CHALLENGER L2 480	47°	3/8	1-3/4										
NEWHOLLAND													
SD 440A, SD 550A AIR HOE DRILL (DEPENDING ON SHANK OPTION)	47°	1/2	1-3/4										
SD 440A, SD 550A AIR HOE DRILL (DEPENDING ON SHANK OPTION)	50°	1/2	2-1/4										

MAKE & MODEL	SHANK DEGREE	BOLT SIZE	HOLE CENTRE	200 SERIES					410 SERIES				
				200-QCA-4700	200-QCA-4710	200-QCA-5000	200-QCA-5010	200-WDG-0700	410-QCA-5000	410-QCA-5010	410-WDG-0300	410-WDG-0700	800-WDG-0300
ST 540 CHISEL PLOW													
ST 540 CHISEL PLOW	50°	1/2	2-1/4										
ST 250	47°	1/2	1-3/4										
ST 830 WITH 350 LB TRIP	47°	1/2	1-3/4										
ST 830 WITH 550 LB TRIP (DEPENDING ON SHANK OPTION)	47°	1/2	1-3/4										
ST 830 WITH 550 LB TRIP (DEPENDING ON SHANK OPTION)	50°	1/2	2-1/4										
ST 830 WITH 650 LB TRIP	50°	1/2	2-1/4										
P2050, P2060 AIR HOE DRILL 350 LB OR 550 LB TRIP	50°	1/2	2-1/4										
NOBLE													
XR20	50°	7/16	2-1/4										
8000, 4000 MULTI-TOOL	50°	1/2	2-1/4										
QUINSTAR													
FIELD FINISHER	47°	7/16	1-3/4										
FALLOW MASTER III	50°	1/2	2-1/4										
RYAN (RFM)													
1000 SERIES	47°	7/16	1-3/4										
SALFORD													
FIELD CULTIVATOR	47°	7/16	1-3/4										
SCHULTE													
1000 SERIES	50°	7/16	2-1/4										
SMALE													
MULTIVATOR	47°	7/16	1-3/4										
CHISEL PLOWS	50°	1/2	2-1/4										
SUMMERS													
SUPERCHISEL	50°	1/2	2-1/4										
SUNFLOWER													
CHISEL PLOWS	50°	1/2	2-1/4										
5000, 6000, 7000	47°	7/16	1-3/4										
TAYLOR													
FIELD CULTIVATORS	47°	3/8	1-3/4										
UNVERFERTH													
PERFECTA II FIELD CULTIVATORS	47°	7/16	1-3/4										
VERSATILE													
DH730, DH750 WITH 350 LB & 550 LB TRIPS	47°	1/2	1-3/4										
C500 WITH 350 LB & 550 LB TRIPS	47°	1/2	1-3/4										
C600 WITH 350 LB & 550 LB TRIPS	47°	1/2	1-3/4										
C600 WITH 600 LB TRIP	50°	1/2	2-1/4										
C700 WITH 650 LB TRIP	50°	1/2	2-1/4										
VICTORY													
CHISEL PLOWS	50°	1/2	2-1/4										
WIL-RICH													
FIELD CULTIVATORS	47°	7/16	1-3/4										
CHISEL PLOWS (1993 & OLDER)	43°	7/16	2-1/4										
CHISEL PLOWS (1994 & NEWER)	50°	1/2	2-1/4										
XL2, QX2	47°	7/16	1-3/4										
YEDMANS GRAHAM HOEMES													
US CHISEL PLOWS	50°	1/2	2-1/4										

*Sweeps will not work with this combination, knives only.
 **Bolt sizes will require adapting.



BOLT LENGTH CHART

047 Series Bolt-On Sweeps on light- and medium-duty cultivators

APPLICATION	BOTTOM BOLT	TOP BOLT	SPECIAL NOTES
1" Bourgault shank without seed boot	1/2" x 2"	1/2" x 2"	Plow bolts, no lock washer, regular nut
1" Bourgault shank with Bourgault round tube seed boot	1/2" x 2"	1/2" x 2"	Plow bolts, no lock washer, regular nut
1" Bourgault shank with Bourgault square tube seed boot	1/2" x 2"	1/2" x 2-1/4"	Plow bolts, no lock washer, regular nut
7/8" Bourgault shank without seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
7/8" Bourgault shank with Bourgault round tube seed boot	1/2" x 1-3/4"	1/2" x 2"	Plow bolts, no lock washer, regular nut
7/8" Bourgault shank with Bourgault square tube seed boot	1/2" x 1-3/4"	1/2" x 2-1/4"	Plow bolts, no lock washer, regular nut
3/4" Bourgault shank without seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
3/4" Bourgault shank with Bourgault round tube seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut
3/4" Bourgault shank with Bourgault square tube seed boot	1/2" x 1-3/4"	1/2" x 2"	Plow bolts, no lock washer, regular nut
3/4" Degelman shank without seed boot	7/16" x 1-3/4"	7/16" x 1-3/4"	Plow bolts, no lock washer, regular nut
7/8" Flexi-Coil shank without seed boot	7/16" x 1-3/4"	7/16" x 1-3/4"	Plow bolts, no lock washer, regular nut
1/2" Morris Challenger shank without seed boot	3/8" x 1-1/2"	3/8" x 1-1/2"	Plow bolts, no lock washer, regular nut
5/8" Morris Challenger shank without seed boot	3/8" x 1-1/2"	3/8" x 1-1/2"	Plow bolts, no lock washer, regular nut
5/8" John Deere shank without seed boot	7/16" x 1-1/2"	7/16" x 1-1/2"	Plow bolts, no lock washer, regular nut
9/16" CIL shank without seed boot	3/8" x 1-1/2"	3/8" x 1-1/2"	Plow bolts, no lock washer, regular nut
1/2" Case IH shank without seed boot	7/16" x 1-1/2"	7/16" x 1-1/2"	Plow bolts, no lock washer, regular nut

043 & 050 Series Bolt-On Sweeps on heavy-duty chisel plows

APPLICATION	BOTTOM BOLT	TOP BOLT	SPECIAL NOTES
1" Bourgault shank without seed boot	1/2" X 2"	1/2" X 2"	Plow bolts, no lock washer, regular nut
1" Bourgault shank with Bourgault splitter seed boot #6505-42	1/2" X 2"	1/2" X 2-1/4"	Plow bolts, no lock washer, regular nut
1-1/4" Bourgault shank without seed boot	1/2" X 2-1/4"	1/2" X 2-1/4"	Plow bolts, no lock washer, regular nut
1-1/4" Bourgault shank with Bourgault splitter seed boot #6505-42	1/2" X 2-1/4"	1/2" X 2-1/2"	Plow bolts, no lock washer, regular nut
1" John Deere shank without seed boot	1/2" X 2"	1/2" X 1-3/4"	Plow bolts, no lock washer, regular nut
3/4" Degelman shank (50°) without seed boot	1/2" X 1-3/4"	1/2" X 1-3/4"	Plow bolts, no lock washer, regular nut
1-1/4" Flexi-Coil shank without seed boot	1/2" X 2-1/4"	1/2" X 2-1/4"	Plow bolts, no lock washer, regular nut
1" Morris shank (43°) without seed boot	1/2" X 2"	1/2" X 2"	Plow bolts, no lock washer, regular nut
7/8" Shulte shank without seed boot	1/2" X 2"	1/2" X 2"	Plow bolts, no lock washer, regular nut
1-1/4" CIL shank without seed boot	1/2" X 2-1/4"	1/2" X 2-1/4"	Plow bolts, no lock washer, regular nut
1-1/4" IH shank without seed boot	1/2" X 2-1/4"	1/2" X 2-1/4"	Plow bolts, no lock washer, regular nut
3/4" Case IH Vibra shank without seed boot	1/2" x 1-3/4"	1/2" x 1-3/4"	Plow bolts, no lock washer, regular nut

NOTES: 1) All Bourgault sweeps come with 1/2" holes. Shanks with 3/8" and 7/16" holes require special oversize (O/S) head plow bolts. 2) When bolting a seed boot, usually it is the bottom bolt which bolts the seed boot to the shank; the top bolt should remain the same length as listed above. If the seed boot cross section at the point the bolt goes through is 1/8" thick or less, use the same bolt length as above without the lock washer. If the seed boot cross section at the point the bolt goes through is greater than 1/8", increase bolt length by adding the measured cross section of the seed boot at the point the bolt goes through to the above lengths.

200 Series QC Adapter – 200-QCA-4700

APPLICATION	BOTTOM BOLT	TOP BOLT	SPECIAL NOTES
1" Bourgault shank without seed boot	1/2" x 2-1/4" no lock washer	1/2" x 2-1/4" no lock washer	Hex-head bolts
1" Bourgault shank with round tube Bourgault seed boot	1/2" x 2" no lock washer	1/2" x 2-1/4" no lock washer	Hex-head bolts, grade 8 required
1" Bourgault shank with square tube Bourgault seed boot	1/2" x 2" no lock washer	1/2" x 2-1/2" no lock washer	Hex-head bolts, grade 8 required
7/8" Bourgault shank without seed boot	1/2" x 2" no lock washer	1/2" x 2" no lock washer	Hex-head bolts
7/8" Bourgault shank with round tube Bourgault seed boot	1/2" x 2" no lock washer	1/2" x 2-1/4" no lock washer	Hex-head bolts, grade 8 required
7/8" Bourgault shank with square tube Bourgault seed boot	1/2" x 2" no lock washer	1/2" x 2-1/4" no lock washer	Hex-head bolts, grade 8 required
3/4" Bourgault shank without seed boot	1/2" x 2" no lock washer	1/2" x 2" no lock washer	Hex-head bolts
3/4" Bourgault shank with round tube Bourgault seed boot	1/2" x 1-3/4" no lock washer	1/2" x 2" c/w with lock washer	Hex-head bolts
3/4" Bourgault shank with square tube Bourgault seed boot	1/2" x 1-3/4" no lock washer	1/2" x 2-1/4" with lock washer	Hex-head bolts
3/4" Ezee-On shank without seed boot	7/16" x 1-3/4"	7/16" x 1-3/4"	Hex-head bolts (see note 3 below)
7/8" Ezee-On shank without seed boot	7/16" x 2"	7/16" x 2"	Hex-head bolts (see note 3 below)

NOTES: 1) Above bolt lengths are determined using prevailing torque side locknuts – grade C. This special locknut is necessary to keep the adapter tight. It is very important to use it, especially in stony or hard ground conditions. 2) Grade 8 bolts are required with the Bourgault 7/8" and 1" shanks where seed boots are involved. If not used, bolt loosening may occur. 3) Shanks with 7/16" holes require the special oversize head hex bolt.

200 Series QC Adapter – 200-QCA-4710

APPLICATION	BOTTOM BOLT	TOP BOLT	SPECIAL NOTES
3/4" and 7/8" Flexi-Coil shank without seed boot	7/16" x 2-1/4" no lock washer	7/16" x 2-1/4" no lock washer	Plow bolt (see note 2 below)
7/8" Flexi-Coil shank with 5649 seed boot	7/16" x 3-7/8" no lock washer	7/16" x 2-1/2" no lock washer	Plow bolt (see note 2 below)
1/2" Morris Challenger shank without seed boot	3/8" x 1-3/4" no lock washer	3/8" x 1-3/4" no lock washer	Plow bolt (see note 2 below)
5/8" Morris Challenger shank without seed boot	3/8" x 2" no lock washer	3/8" x 2" no lock washer	Plow bolt (see note 2 below)
7/8" Morris shank without seed boot	7/16" x 2-1/4" no lock washer	7/16" x 2-1/4" no lock washer	Plow bolt (see note 2 below)
9/16" CIL shank without seed boot	3/8" x 2" no lock washer	3/8" x 2" no lock washer	Plow bolt (see note 2 below)
5/8" John Deere shank without seed boot	7/16" x 2" no lock washer	7/16" x 2" no lock washer	Plow bolt (see note 2 below)
3/4" Degelman shank	7/16" x 2-1/4" no lock washer	7/16" x 2-1/4" no lock washer	Plow bolt (see note 2 below)
9/16" Wil-rich shank without seed boot	1/2" x 2" no lock washer	1/2" x 2" no lock washer	Plow bolt

200 Series QC Adapter – 200-QCA-5010

APPLICATION	BOTTOM BOLT	TOP BOLT	SPECIAL NOTES
1" shank without seed boot or wedge	1/2" x 2-1/2" with lock washer	1/2" x 2-1/2" with lock washer	Plow bolt
1-1/4" shank without seed boot seed boot or wedge	1/2" x 2-3/4" with lock washer	1/2" x 2-3/4" with lock washer	Plow bolt

NOTES: 1) Above bolt lengths are determined using prevailing torque side locknuts – grade C. This special locknut is necessary to keep the adapter tight. 2) Shanks with 3/8" and 7/16" holes require special oversize head plow bolts. 3) When bolting a seed boot, usually it is the bottom bolt which bolts the seed boot to the shank; the top bolt should remain the same length as listed above. If the seed boot cross section at the point the bolt goes through is 1/8" thick or less, use the same bolt length as above without the lock washer. If the seed boot cross section at the point the bolt goes through is greater than 1/8", increase bolt length by adding the measured cross section of the seed boot at the point the bolt goes through to the above lengths.



BOLT LENGTH CHART

410 Series QC Adapter – 410-QCA-5000

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" Bourgault shank without seed boot	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-head
1" Bourgault shank with Bourgault splitter seed boot 6505-42	1/2" x 2-1/2"	1/2" x 2-3/4"	Hex-head
1-1/4" Bourgault shank without seed boot	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex-head
1-1/4" Bourgault shank with Bourgault splitter seed boot 6505-42	1/2" x 2-3/4"	1/2" x 3"	Hex-head

410 Series QC Adapter – 410-QCA-5010

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
1" shank without seed boot or wedge	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-head
1-1/4" shank without seed boot or wedge	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex-head

NOTES: 1) Above bolt lengths are determined using prevailing torque side locknuts – grade C. This special locknut is necessary to keep the adapter tight. 2) When bolting a seed boot, usually it is the bottom bolt which bolts the seed boot to the shank; the top bolt should remain the same length as listed above. If the seed boot cross section at the point the bolt goes through is 1/8" thick or less, use the same bolt length as above without the lockwasher. If the seed boot cross section at the point the bolt goes through is greater than 1/8", increase bolt length by adding the measured cross section of the seed boot at the point the bolt goes through to the above lengths. 3) When bolting an adapter using a wedge, a wedge will only be used when using the 410-QCA-5010 adapter on 43° and 47° chisel plows. Measure the cross section of the wedge at both bolt holes and add this amount to the above numbers. Remember that the measured cross section will be different at each hole in the wedge.

600 Series Quick Tip Knives

APPLICATION	TOP HOLE	BOTTOM HOLE	SPECIAL NOTES
For 47° and 50° applications, no wedge is needed			
1-1/4" Bourgault shank	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex-head bolt, regular nut and lock
1" Bourgault shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-head bolt, regular nut and lock
7/8" Bourgault shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-head bolt, regular nut and lock
3/4" Bourgault shank	1/2" x 2-1/4"	1/2" x 2-1/4"	Hex-head bolt, regular nut and lock
1-1/4" Flexi-Coil shank	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex-head bolt, regular nut and lock
1-1/4" Morris shank	1/2" x 2-3/4"	1/2" x 2-3/4"	Hex-head bolt, regular nut and lock (see note 1 below)
1" John Deere shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-head bolt, regular nut and lock
7/8" Shulte shank	1/2" x 2-1/2"	1/2" x 2-1/2"	Hex-head bolt, regular nut and lock
3/4" Degelman shank	1/2" x 2-1/4"	1/2" x 2-1/4"	Hex-head bolt, regular nut and lock
For 43° applications, wedge 400-WDG-0700 is required			
1" Morris shank for NH ₃ knives	1/2" x 3" no lock washer	1/2" x 2-3/4" no lock washer	Hex-head, regular nut
1" Morris shank for granular knives	1/2" x 3" no lock washer	1/2" x 2-3/4" no lock washer	Hex-head, regular nut
1-1/4" CIL shank, 2-1/2" hole centre-to-centre	1/2" x 3-1/4" c/w no lock washer	1/2" x 2-3/4" no lock washer	Hex-head, regular nut
1-1/4" IH shank	1/2" x 3-1/4"	1/2" x 3"	Hex-head bolt, regular nut and lock (see note 2 below)
3/4" Case IH vibra chisel shank	1/2" x 2-3/4"	1/2" x 2-1/2"	Hex-head bolt, regular nut and lock

NOTES: 1) Some material may have to be ground off the bottom of the 1-1/4" Morris shank (front face) to get the knife holder to seat down tight against the shank. 2) The 1-1/4" IH shank will fit the NH₃ knives, but not the granular knife. 3) All knives come with holes to accommodate 1/2" bolts. If cultivator shanks have 7/16" holes, substitute 7/16" bolts for 1/2" and use a flat washer on the bolt head.

Bolt and Nut Part Numbers

DESCRIPTION	SIZE	PART NUMBER
Lock Washer	1/2"	902-LWS-5000
Nut – Grade 5	3/8"	904-NRG-3754
Nut – Grade 5	7/16"	904-NRG-4374
Nut – Grade 5	1/2"	904-NRG-5004
Lock Nut – Stover	1/4"	906-NPT-2505
Lock Nut – Stover	3/8"	906-NPT-3755
Lock Nut – Stover	7/16"	906-NPT-4375
Lock Nut – Stover	1/2"	906-NPT-5005
Lock Nut – Nylon Insert	1/4"	908-NNI-2504
Screw – Pan Head	3/8"	911-SCR-1038
Screw – Self Drill	1/2"	911-SCR-1051
Plow Bolt – O/S Hd Low Shld	3/8" x 1-1/2"	922-POL-1504
Plow Bolt – O/S Hd Low Shld	3/8" x 1-3/4"	922-POL-1754
Plow Bolt – O/S Hd Low Shld	3/8" x 2"	922-POL-2004
Plow Bolt – O/S Hd	3/8" x 2-1/4"	922-POR-2254
Plow Bolt – O/S Hd Low Shld	7/16" x 1-1/2"	924-POL-1504
Plow Bolt – O/S Hd Low Shld	7/16" x 1-3/4"	924-POL-1754
Plow Bolt – O/S Hd	7/16" x 2"	924-POR-2004
Plow Bolt – O/S Hd	7/16" x 2-1/4"	924-POR-2254
Plow Bolt – O/S Hd	7/16" x 2-1/2"	924-POR-2504
Plow Bolt – O/S Hd	7/16" x 2-3/4"	924-POR-2754
Plow Bolt – O/S Hd	7/16" x 3"	924-POR-3004
Plow Bolt – O/S Hd	7/16" x 3-7/8"	924-POR-3874
Plow Bolt	1/2" x 1-3/4"	926-PRG-1754

DESCRIPTION	SIZE	PART NUMBER
Plow Bolt	1/2" x 2"	926-PRG-2004
Plow Bolt	1/2" x 2-1/4"	926-PRG-2254
Plow Bolt	1/2" x 2-1/2"	926-PRG-2504
Plow Bolt	1/2" x 2-3/4"	926-PRG-2754
Plow Bolt	1/2" x 3"	926-PRG-3004
Plow Bolt	1/2" x 3-1/2"	926-PRG-3504
Hex Bolt – O/S Hd Shld Blt	7/16" x 1-3/4"	933-HOS-1754
Hex Bolt – O/S Hd Shld Blt	7/16" x 2"	933-HOS-2004
Hex Bolt	1/4" x 3/4"	942-HRG-0754
Hex Bolt	1/4" x 2"	942-HRG-2004
Hex Bolt	1/2" x 1-3/4"	946-HRG-1754
Hex Bolt – Grade 8	1/2" x 2"	946-HRG-2005
Hex Bolt – Grade 8	1/2" x 2-1/4"	946-HRG-2255
Hex Bolt – Grade 8	1/2" x 2-1/2"	946-HRG-2505
Hex Bolt	1/2" x 2-3/4"	946-HRG-2754
Hex Bolt	1/2" x 3"	946-HRG-3004
Hex Bolt	1/2" x 3-1/4"	946-HRG-3524
Hex Bolt	1/2" x 3-1/2"	946-HRG-3504
Carriage Bolt – Grade 8	3/8" x 2-1/4"	960-CRG-3755
Carriage Bolt – Grade 8	1/2" x 2"	961-CRG-2005
Carriage Bolt – Grade 8	1/2" x 2-1/4"	961-CRG-2255
Carriage Bolt – Grade 8	1/2" x 2-1/2"	961-CRG-2505

Legend: O/S Hd = Oversized Head; Low Shld = Low Shoulder; Shld Blt = Shoulder Bolt

Common Torque Values

This chart lists some of the more common bolt sizes and their calculated torque values. To ensure proper installation and the integrity of the bolts, it is recommended that you follow these values. We have highlighted some of the more common sizes that our products will use.

USS/SAE Grade 8

BOLT DIAMETER	WRENCH SIZE	TORQUE DRY FT. LBS.	LUBRICATED FT. LBS.
1/4"	7/16"	12	9
5/16"	1/2"	24	18
3/8"	9/16"	45	35
7/16"	5/8"	70	50
1/2"	3/4"	110	80
9/16"	13/16"	150	110
5/8"	15/16"	210	160
3/4"	1-1/8"	380	280
7/8"	1-5/16"	600	450
1"	1-1/2"	910	680

All highlighted values are common bolt sizes used for BTT products.

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