

Tillage Parts Guide





Adjust depth and pressure in seconds with TruSet™

With advanced TruSet Tillage technology you can independently adjust settings for depth and pressure (while on the go) in just seconds. **That's up to 200 times faster than manual field adjustments.**

With just a few simple touches you can command TruSet to respond to changing field conditions. Go from lighter soil to highly compacted areas with $\frac{1}{10}$ -in. (2.5mm) accuracy. Also at your fingertips is **real-time data for actual tillage settings**, in addition to tillage pass documentation for later review and analysis.

Available for most newer John Deere implements and tractors—and compatible with competitive tractors—TruSet enhances your entire tillage operation by:

- Maximizing yield potential
- Increasing fuel efficiency
- Lowering operating costs
- Providing documentation and prescription functionality

Compatible equipment for TruSet

2230 Field Cultivator
2330 Mulch Finisher
2510H High-Speed Applicator
2620 and 2630 Series Disks
2720 Disk Ripper
2730 Combination Ripper
2623VT, 2633VT, and 2660VT Vertical Tillage

Go to <http://www.deere.com/en/tillage/truset/> to learn more.



BENEFITS OF TILLAGE

Dry soil sooner and more uniformly, especially high-residue or poorly drained fields. Tillage warms the soil earlier in the spring, so you may be able to plant sooner, use longer-season seed varieties, and harvest later. Crop dries in the field, not the bin.

Reduce insect and plant disease problems. The risk of insect damage increases as tillage decreases and more crop residue remains. The mixing action of tillage helps reduce the population of pests such as cutworms, slugs, and stalk borers.

Makes it easier to control soil fertility. By applying fertilizer, lime, and manure directly into the soil, you get more even distribution to the crop and lose less beneficial material. Incorporation also reduces volatilization and runoff of surface-applied commercial nitrogen and manure.

Low-cost way to manage weeds. Pre-plant incorporation of herbicides with a tillage pass lets you use less chemicals and, with consistent distribution, use them more effectively. Plus, tillage kills weeds and volunteer plants before the crop goes in.

Economical solution for soil compaction in the top 8 to 12 inches of soil. Even by eliminating all pre-plant tillage, compaction can still develop from trips over the field by combines, grain carts, fertilizer and manure applicators, trucks, and livestock.

Benefits the environment. A rough, residue-covered soil surface from fall tillage increases water absorption and reduces runoff and wind erosion. Mixing fertilizer, manure, lime, and herbicides into a residue-covered surface on your seedbed pass further reduces runoff into surface waters.

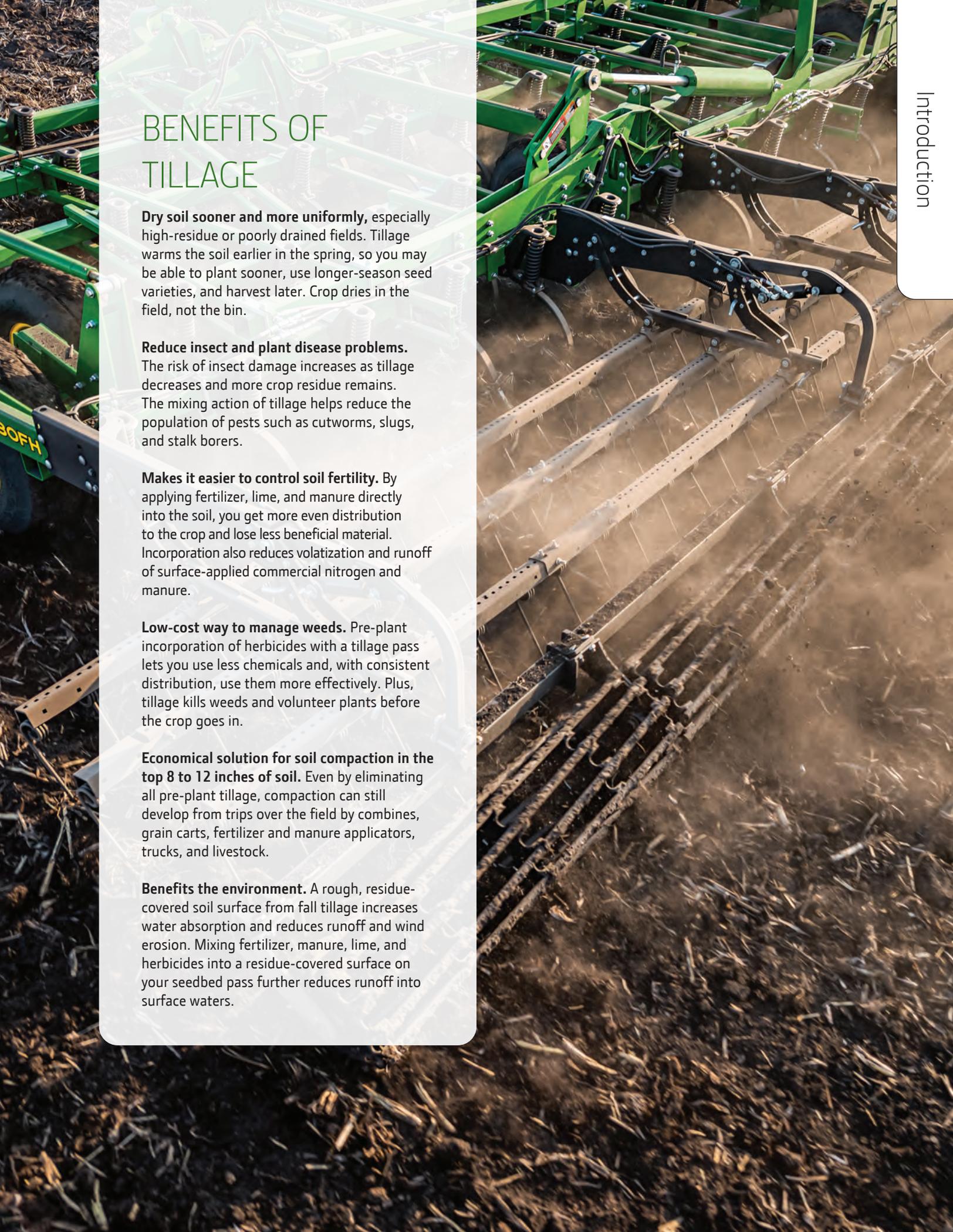


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Why tillage is important?

From rising input costs, to changing regulations, to tougher residue, today's producers are faced with many challenges when it comes to tillage. At the same time, higher yielding crops require healthy soil and tillage is still an indispensable tool to create an environment that promotes seed germination and root growth, controls moisture, weeds, and soil erosion. John Deere is a reliable source of proven tillage parts and attachments that allow producers to get the best out of every acre. The John Deere Tillage Parts Guide can help you get the necessary information on the right part whether you are managing compaction, sizing residue, controlling weeds or prepping for planting.

Tillage methods



Primary Tillage

Primary tillage is aggressive, deep tillage. It usually penetrates six inches deep or deeper, and uses implements such as a chisel plow, ripper, heavy disk, or mulch tiller. Its aim is to fracture or loosen soil and mix residue and fertilizer into the tilled layer.

Chisel Plow: 2400, 2410, and 2430, 240, 610

Disk: 637, 650, 2625, and 2635

Moldboard Plow: 3710, 975, and 995

Mulch Tiller: 714

Rippers: 512, 2100, 2700, 2720, 2730, 913 and 915



Secondary Tillage

Secondary tillage is shallow tillage — usually less than six inches. Its goal is to kill weeds, level soil, break clods, or incorporate herbicides and nutrients. Secondary tillage uses light disks, field cultivators, mulch finishers, crumblers, or similar tools. Secondary tillage is not necessarily preceded by primary tillage.

Disks: 425, 2620, 2623, 2630, 2623, 2680H

Field Cultivators: 2200, 2210 and 2230

Mulch Finisher: 2310 and 2330



Vertical Tillage

Vertical tillage is any type of deep tillage that doesn't create a horizontal layer to break up surface soil compaction, or smooth out areas in a field with shallow rills from water erosion or ruts and tire tracks from agricultural equipment.

Vertical tillage: 2623VT and 2633VT, 2660VT



Nutrient Application

Nutrient applicators are used to obtain maximum crop yield by managing nutrients in the soil. This is accomplished by utilizing tools that allow for efficient and precise delivery of dry and liquid fertilizers.

Nutrient Applicators: 2410C, 2430C, 2510C, 2510H, and 2510S



Seeding Tillage

Seeding tillage is shallow — usually three to four inches. Its major goals are to dislodge weed seeds, fracture soil, and provide a temporary cavity for seed placement. It is performed by air seeders and metered drills.

Air Hoe Drill: 1830 and 1835



Row Crop Tillage

Tilling the soil kills weeds, increases aeration, and improves water infiltration — all important for optimum plant growth. If crusting occurs before emergence, a rotary hoe is used to break up the crust and uproot small weeds.

Row Crop Cultivators: 856, 550 Mulch Master
Row Crop Ripper: 955

John Deere Weed Management Solutions

There is no one-size-fits-all weed control system. Crops, weather and soil conditions vary and you need the flexibility to handle them - and cost - effectively. While the use of sprayers has increased in popularity, tillage still represent an effective way to manage weeds. For this reason, John Deere offers a full product line of premium-quality tools with a variety of product features to give the ability to meet your weed management goals.

A row of green John Deere sweepers is parked on a gravel lot. The sweepers are arranged in a line, receding into the distance. The foreground shows a close-up of the front wheel and suspension of one of the sweepers. The background features a large, light-colored building with a dark roof. The sky is clear and blue.

SWEEPS, SHOVELS &
ATTACHING HARDWARE

Sweeps, Shovels & Hardware

How to choose the right sweep for you

Wing Type Options



Conventional Sweep

“Good” - Classic John Deere offering, value offering for the smaller operator, fits John Deere tools and most competitive equipment.

- Nose angle set for soil penetration.



Tru-Width™ Wing

“Better” - For the medium sized grower, optimal scouring in stickier and wetter soil and shallow depth, maintain cutting width throughout life of sweeps.

- Low and Medium crown, the Tru-Width sweeps are ideal for shallow conditions such as air seeding or planting operations or when the soil is wet and sticky, as the improved scouring action leaves a smoother soil finish.
- 30%* increase in life over conventional sweeps.
- Wings are clipped for minimum soil side throw.
- Best choice if grower is limited in tractor horse power or prefers lower working speed.



High Productivity

“Best” - For the grower that needs to stay ahead of their planter or to cover more acres per day, the high productivity sweep is the choice for them. They perform best at speeds of 7 to 10 mph.

- Curved wing design improves wear life by 30%* over Tru-Width sweeps.
- Lower draft, potentially decreasing the cost.
- Low crown allows the sweep to leave a level finish, even at higher speeds.
- Sharp edge allows to cut effortlessly through weeds.

Sweeps: Good/Better/Best Options



| | Conventional | Tru-Width™ | High Productivity |
|------------------------------------|--------------|------------|-------------------|
| Longest Wear Life | Good | Better | Best |
| Shape Retention | Good | Better | Best |
| Lower Draft | Good | Better | Best |
| Reduces Ridging | | Better | Best |
| Sticky Wet Soil Conditions | | Best | Better |
| Shallow Working Depths (<2") | Best | Best | Better |
| High Speed Capabilities (7-10 mph) | | | ✓ |
| Easy Perma-Loc™ Adapter | | ✓ | ✓ |
| Bolt-on Adapter | ✓ | ✓ | ✓ |
| Extra Life Coating Option | ✓ | ✓ | ✓ |

*Based on internal testing performed in 2012 and 2013.

Xtra-Life and Plus Sweeps

When it comes to increasing the working life of your sweeps, John Deere offers two wear resistant options. The Xtra-Life or “XLT” is a carbide powder coating that is fused to the wings and neck of the sweep. It is available for Conventional and Tru-Width sweeps. The XLT sweeps are ideal for sandy soil and weed management as they wear sharper.



Conventional sweep with XLT coating



Tru-Width sweep with XLT coating

The High Productivity Plus sweep has an iron based carbide powder that is laser cladded to the sweep wings. It is available on High Productivity sweeps only. The Plus sweeps represent the best choice for the grower who wants to cover a large amount of acres on a single set of sweeps.



High Productivity Plus Sweep

Perma-Loc™ Attaching System

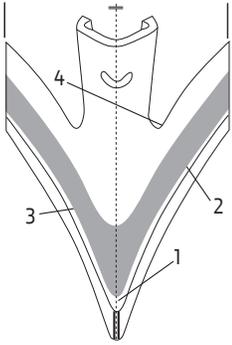
John Deere offers two attaching systems. For the operator with a smaller acreage where sweep replacement is not as frequent, John Deere offers the the traditional bolt-on system.

However, if the grower is looking to increase productivity and uptime, the Perma-Loc™ quick attach system is the perfect choice. The Perma-Loc™ system is the most reliable quick attach system in the industry and allows the operator to change sweeps five times faster than the regular bolt-on system. Perma-Loc™ is based on a heavy-duty cast iron adapter and a locking spring. Available for 47- and 51-degree standards.



When to replace a sweep.

Sweep wear is the natural result of tillage. An excessively worn off sweep should be replaced as soon as possible as it would ultimately put your investment in time, resources, and inputs at risk of reduced returns. Replace your sweeps when you see one of the following wear characteristics.

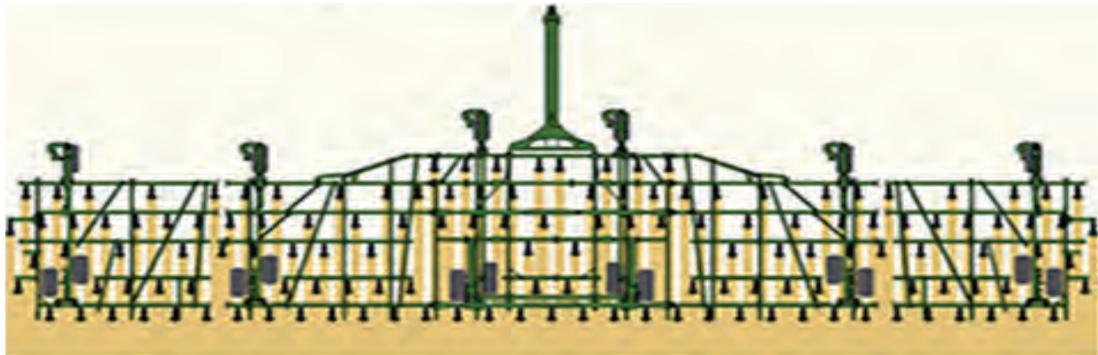


| WEAR CHARACTERISTIC | RESULT |
|--|---|
| 1. Rounded point. | <ul style="list-style-type: none"> Reduces penetration performance. Up force begins to occur, reducing tillage effectiveness and increasing equipment stress. |
| 2. Cutting blade of wing reduced to 50-percent width of original wing | <ul style="list-style-type: none"> Soil-mixing action is reduced and risk of wing breakage occurs. |
| 3. Blunt edge on wing blade. | <ul style="list-style-type: none"> Compacts soil at tillage surface and reduces seed germination and water infiltration activity. |
| 4. Shank worn through (caused by shallow tillage where extremely crusty abrasive soils exist). | <ul style="list-style-type: none"> The sweep breaks off the shank and is lost in the field. |

Sizes

John Deere offers a wide range of sweep sizes to allow customers to match the right sweep with the right spacing of their tillage tool. Sweeps are oversized by one inch for proper overlap and completely eradicating weeds.

For example: if you have a customer that has 6" spacing they will need a 7" sweep for the entire ground to be worked.



Crown Height

Choose the crown height of your sweep based on the desired results.



Low-Crown Design

- Shallow crown and flat wings
- Excellent residue flow
- Minimal ridging
- Good soil conservation



Medium-Crown Design

- Higher profile with steeper angled wings
- More soil lifting and moving action
- Excellent down force for good penetration
- Positive scouring performance

Field cultivator sweeps

High productivity field cultivator sweeps

Features and benefits

“Best” - For the grower that needs to stay ahead of their planter or to cover more acres per day, the high productivity sweep is the choice for them. They perform best at speeds of 7 to 10 mph.

- Curved wing design improves wear life by 30%* over Tru-Width sweeps.
- Lower draft, potentially decreasing cost.
- Low crown allows the sweep to leave a level finish, even at higher speeds.
- Sharp edge allows to cut effortlessly through weeds.

High Productivity Sweeps

| Part Number | Size | Thickness | Angle | Crown | Wing | Style |
|-------------|--------|-----------|---------|-------|--------|-------|
| N331103 | 7-in. | 1/4-in. | 47-deg. | Low | Medium | Bolt |
| N331104 | 9-in. | 1/4-in. | 47-deg. | Low | Medium | Bolt |
| N331105 | 10-in. | 1/4-in. | 47-deg. | Low | Medium | Bolt |
| N331106 | 12-in. | 1/4-in. | 47-deg. | Low | Medium | Bolt |



High Productivity Perma-Loc™ Sweeps

| Part Number | Size | Thickness | Angle | Crown | Wing | Style |
|-------------|--------|-----------|---------|-------|--------|------------|
| N331099 | 7-in. | 1/4-in. | 47-deg. | Low | Medium | Perma-Loc™ |
| N331100 | 9-in. | 1/4-in. | 47-deg. | Low | Medium | Perma-Loc™ |
| N331101 | 10-in. | 1/4-in. | 47-deg. | Low | Medium | Perma-Loc™ |
| N331102 | 12-in. | 1/4-in. | 47-deg. | Low | Medium | Perma-Loc™ |



High Productivity Plus Perma-Loc™

| Part Number | Size | Thickness | Angle | Crown | Wing | Style |
|-------------|------|-----------|---------|-------|--------|------------|
| KK36222 | 7 | 1/4-in. | 47-deg. | Low | Medium | Perma-Loc™ |
| KK36223 | 9 | 1/4-in. | 47-deg. | Low | Medium | Perma-Loc™ |
| KK36224 | 10 | 1/4-in. | 47-deg. | Low | Medium | Perma-Loc™ |



Perma-Loc™ Adapters, Spring and Removal Tool

| Part Description | Where Used | Part Number |
|--|---|-------------|
| Perma-Loc™ Adapters | | |
| 47-deg., Curved | Field Cultivators and Mulch Finishers with Curved Standards (Deere Applications) | N237614 |
| 47-deg., Flat | Field Cultivators and Mulch Finishers with Flat Standards (Competitive-DMI, CNH, Bourgault) | N330001 |
| 51-deg., Curved | Air Hoe Drills/Spoons | N237616 |
| Perma-Loc™ Springs | | |
| 47-deg. Adapter Locking Spring | NA | N237620 |
| 51-deg. Adapter Locking Spring | NA | N237621 |
| Perma-Loc™ Removal Tool | | |
| Optional Tool Helps Make Perma-Loc™ Sweep Removal Quick and Easy | NA | N237623 |



*See hardware AN234540 and AN234961 on page 20

*Based on internal testing performed in 2012 and 2013.

Field cultivator sweeps

Tru-Width™ Sweeps



Examples of Tru-Width sweeps for secondary and crop care tillage. 47-deg. shank angle.



N182043 (12-in.)



Features and Benefits

- Unique, proven, Tru-Width design maintains cutting width throughout sweep life, which can extend 30%* beyond that of conventional sweeps.
- Ridged medium crown ensures long point life for ongoing consistent tillage action. It parts soil and improves mixing action, chemical incorporation, and weed eradication.
- Available in low and medium crown.
- Tru-Width wing design provides even seed distribution throughout the life of the sweep.
- Sweeps will also fit most competitive equipment.

Tru-Width Sweeps

| Part Number | Size | Thickness | Angle | Crown | Wing | Style |
|-------------|--------|-----------|---------|--------|--------|-------|
| N182039 | 7-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182113 | 9-in. | 1/4-in. | 47-deg. | Low | Medium | Bolt |
| N182040 | 9-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182114 | 10-in. | 1/4-in. | 47-deg. | Low | Medium | Bolt |
| N182041 | 10-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182042 | 11-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182043 | 12-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182117 | 16-in. | 1/4-in. | 47-deg. | Low | Medium | Bolt |

Tru-Width XLT Sweeps

| Part Number | Size | Thickness | Angle | Crown | Wing | Style |
|-------------|--------|-----------|---------|--------|--------|------------|
| N182039XLT | 7-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182040XLT | 9-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182041XLT | 10-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182042XLT | 11-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182043XLT | 12-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N238333XLT | 7-in. | 1/4-in. | 47-deg. | Medium | Medium | Perma-Loc™ |
| N238334XLT | 9-in. | 1/4-in. | 47-deg. | Medium | Medium | Perma-Loc™ |
| N238335XLT | 10-in. | 1/4-in. | 47-deg. | Medium | Medium | Perma-Loc™ |
| N238336XLT | 12-in. | 1/4-in. | 47-deg. | Medium | Medium | Perma-Loc™ |

Xtra-Life coating on wing, point and stem.

Perma-Loc™ Tru-Width™ Sweeps

| Part Number | Size | Thickness | Angle | Crown | Wing | Style |
|-------------|--------|-----------|---------|--------|--------|------------|
| N238333 | 7-in. | 1/4-in. | 47-deg. | Medium | Medium | Perma-Loc™ |
| N238334 | 9-in. | 1/4-in. | 47-deg. | Medium | Medium | Perma-Loc™ |
| N238335 | 10-in. | 1/4-in. | 47-deg. | Medium | Medium | Perma-Loc™ |
| N238336 | 12-in. | 1/4-in. | 47-deg. | Medium | Medium | Perma-Loc™ |

Perma-Loc™ Tru-Width Spoons

| Part Number | Size | Thickness | Angle | Crown | Wing | Style |
|-------------|-------|-----------|---------|--------|--------|------------|
| N403769 | 2-in. | 1/4-in. | 47-deg. | Medium | Medium | Perma-Loc™ |
| N238756 | 3-in. | 1/4-in. | 51-deg. | Medium | Medium | Perma-Loc™ |
| N238757 | 4-in. | 1/4-in. | 51-deg. | Medium | Medium | Perma-Loc™ |

*Based on internal testing performed in 2012 and 2013.

Field cultivator sweeps

Conventional Sweeps

Features and benefits

- Nose angle is precisely set for excellent soil penetration.
- Wing ends are clipped for minimum soil side throw.
- 3/16-in. and 1/4-in. thickness options are dependent upon soil conditions and sweep applications.
- Provide an economical tillage value.
- Sweeps will fit most competitive equipment.



N188995 (12-in.)



XLT coated conventional sweep

Sweeps, Shovels & Hardware

Conventional Field Cultivator Sweeps

| Part Number | Size | Thickness | Angle | Crown | Wing | Style |
|-------------|-----------|-----------|---------|--------|--------|-------|
| N130165 | 4 1/2-in. | 3/16-in. | 43-deg. | Medium | Medium | Bolt |
| N130166 | 7-in. | 3/16-in. | 43-deg. | Medium | Medium | Bolt |
| N130167 | 9-in. | 3/16-in. | 43-deg. | Medium | Medium | Bolt |
| N130168 | 10-in. | 3/16-in. | 43-deg. | Medium | Medium | Bolt |
| N973MN | 12-in. | 1/4-in. | 43-deg. | Medium | Medium | Bolt |
| N188991 | 4 1/2-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |

Conventional Field Cultivator Sweeps - XLT Coated

| Part Number | Size | Thickness | Angle | Crown | Wing | Style |
|-------------|-----------|-----------|---------|--------|--------|-------|
| N130166XLT | 7-in. | 3/16-in. | 43-deg. | Medium | Medium | Bolt |
| N130167XLT | 9-in. | 3/16-in. | 43-deg. | Medium | Medium | Bolt |
| N130168XLT | 10-in. | 3/16-in. | 43-deg. | Medium | Medium | Bolt |
| N188991XLT | 4 1/2-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182039XLT | 7-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182040XLT | 9-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |
| N182041XLT | 10-in. | 1/4-in. | 47-deg. | Medium | Medium | Bolt |

Xtra-Life coating on wings, point and stem.

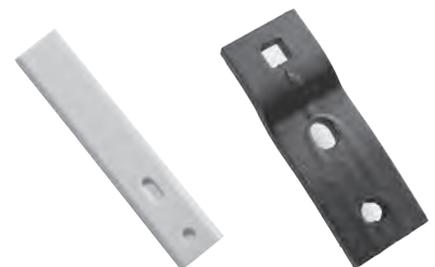
Hardware

| Kit Part Number | Quantity | Part Number | Part Description |
|-----------------|----------|-------------|-------------------------------------|
| AN234100 | 50 | 10H1073 | 7/16-in. x 1 1/2-in. Bolt |
| | 50 | 24M7043 | .060-in. x 15/32-in. Washer |
| | 50 | 14H813 | 7/16-in. Hex Nut |
| AN234101 | 50 | N189527 | No. 3 Repair Head Special Plow Bolt |
| | 50 | 24H1305 | .060-in. x 13/32-in. Washer |
| | 50 | 14H812 | 3/8-in. Hex Nut |

Miscellaneous products

Sweep extenders help the sweep reach deeper and break up compacted areas such as behind the tractor tires. Poly shank protectors help the soil flow off the shank protecting the metal and extending the life of the part.

| Part Number | Size/Description |
|-------------|---|
| KK51728 | Sweep Extender (3 holes, for field cultivators) |
| TY15990 | 1 3/4-in. x 9-in. Shank Protectors (poly) |
| TY15991 | 2-in. x 10-in. Shank Protectors (poly, for chisel plows) |
| BKK11115 | Sweep extender kit for Perma-Loc sweeps. (includes 4 extenders, and necessary bolts, washers and nuts.) |
| BKK11116 | Sweep extender kit (includes 4 extenders, and necessary bolts, washer and nuts.) |



Chisel plow sweeps

Tru-Width™ Sweeps



Examples of Tru-Width sweeps for primary and seeding tillage. Medium crown, 51-deg. shank angle.



N182045 (10-in.)



N182038 (18-in.)

Features and Benefits

- Unique, proven, Tru-Width design maintains cutting width throughout sweep life, which can extend 30%* beyond that of conventional sweeps.
- Ridged medium crown ensures long point life for ongoing consistent tillage action. It parts soil and improves mixing action, chemical incorporation, and weed eradication.
- Wing angle is set on each type to optimize performance related to respective tillage/seeding practices.
- Tru-Width wing design provides even seed distribution throughout the life of the sweep.
- Excellent fit on other makes of tillage equipment for improved performance.
- Because of their unique wraparound design, Tru-Width sweeps provide even draft and maximum holding power.

Tru-Width Chisel Plow Sweeps

| Part Number | Size | Thickness | Angle | Crown | Wing | Hole Spacing | Bolthole Size |
|-------------|--------|-----------|---------|--------|--------|--------------|---------------|
| N182044 | 8-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N182045 | 10-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N182046 | 12-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N182035 | 12-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N402442 | 12-in. | 1/4-in. | 51-deg. | Low | Wide | 2 1/4-in. | 1/2-in. |
| N182036 | 14-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N402449 | 14-in. | 1/4-in. | 51-deg. | Low | Wide | 2 1/4-in. | 1/2-in. |
| 43CP16TW | 16-in. | 1/4-in. | 43-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N182037 | 16-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N402453 | 16-in. | 1/4-in. | 51-deg. | Low | Wide | 2 1/4-in. | 1/2-in. |
| 43CP18TW | 18-in. | 1/4-in. | 43-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N182038 | 18-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N402276 | 18-in. | 1/4-in. | 51-deg. | Low | Wide | 2 1/4-in. | 1/2-in. |
| N182111 | 20-in. | 1/4-in. | 51-deg. | Low | Wide | 2 1/4-in. | 1/2-in. |
| N232829 | 24-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |

Tru-Width Chisel Plow Sweeps - XLT Coating

| Part Number | Size | Thickness | Angle | Crown | Wing | Hole Spacing | Bolthole Size |
|-------------|--------|-----------|---------|--------|------|--------------|---------------|
| N182035XLT* | 12-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N182036XLT* | 14-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N182037XLT* | 16-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N182038XLT* | 18-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |
| N233903* | 24-in. | 1/4-in. | 51-deg. | Medium | Wide | 2 1/4-in. | 1/2-in. |

*XLT=Xtra-Life coating on wings, point, and stem



Hardware

| Kit Part Number | Part Number | Quantity | Part Description |
|-----------------|-------------|----------|--------------------------|
| AN234104 | 10H1236 | 50 | 1/2-in. x 2 1/4-in. Bolt |
| | 12H301 | 50 | 1/2-in. Washer |
| | 14H960 | 50 | 1/2-in. Heavy Hex |
| AN234105 | 10H1237 | 50 | 1/2-in. x 2 1/2-in. Bolt |
| | 12H301 | 50 | 1/2-in. Washer |
| | 14H960 | 50 | 1/2-in. Heavy Hex |

*Based on internal testing performed in 2012 and 2013.

Chisel plow sweeps

Conventional Sweeps

Features and Benefits

- Nose angle is precisely set for excellent soil penetration.
- Both low and medium-crown wing designs provide excellent soil mixing and residue retention.
- 3/16-in.- and 1/4-in. thickness options are dependent upon soil conditions and sweep applications.
- Provide an economical tillage value.
- Sweeps will fit most competitive equipment utilizing the characteristics in the charts.

Conventional Chisel Plow Sweeps

| Part Number | Size | Thickness | Angle | Crown | Wing | Hole Spacing | Bolthole Size |
|-------------|-----------|-----------|---------|--------|--------|--------------|---------------|
| N130188 | 6 1/2-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N182044 | 8-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N182045 | 10-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N182046 | 12-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| 47CP014 | 14-in. | 1/4-in. | 47-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N130182 | 14-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| 47CP016 | 16-in. | 1/4-in. | 47-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N130177 | 16-in. | 1/4-in. | 51-deg. | Low | Narrow | 2 1/4-in. | 1/2-in. |
| N130183 | 16-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| 47CP018 | 18-in. | 1/4-in. | 47-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N130178 | 18-in. | 1/4-in. | 51-deg. | Low | Narrow | 2 1/4-in. | 1/2-in. |
| N130184 | 18-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N130185 | 20-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N188290 | 24-in. | 1/4-in. | 51-deg. | Low | Medium | 2 1/4-in. | 1/2-in. |



N130185 (20-in.)



N130179 (8-in.)

Conventional Chisel Plow Sweeps - XLT Coating

| Part Number | Size | Thickness | Angle | Crown | Wing | Hole Spacing | Bolthole Size |
|-------------|-----------|-----------|---------|--------|--------|--------------|---------------|
| N130188XLT* | 6 1/2-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N130182XLT* | 14-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N130183XLT* | 16-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |
| N130178XLT* | 18-in. | 1/4-in. | 51-deg. | Low | Narrow | 2 1/4-in. | 1/2-in. |
| N130184XLT* | 18-in. | 1/4-in. | 51-deg. | Medium | Medium | 2 1/4-in. | 1/2-in. |

*XLT=Xtra-Life coating on wings, point, and stem



Examples of medium crown, 51-deg.-shank-angle conventional-wing sweeps for primary and seeding tillage.

Hardware

| Kit Part Number | Part Number | Quantity | Part Description |
|-----------------|-------------|----------|--------------------------|
| AN234104 | 10H1236 | 50 | 1/2-in. x 2 1/4-in. Bolt |
| | 12H301 | 50 | 1/2-in. Washer |
| | 14H960 | 50 | 1/2-in. Heavy Hex |
| AN234105 | 10H1237 | 50 | 1/2-in. x 2 1/2-in. Bolt |
| | 12H301 | 50 | 1/2-in. Washer |
| | 14H960 | 50 | 1/2-in. Heavy Hex |

Chisel plow sweeps

Heel Sweeps



Features and Benefits

- Heat-treated for extra strength and durability.
- By using with chisel points, operators are able to chisel and cultivate at the same time, optimizing soil conditions for their crops.

Heel Sweeps

| Part Number | Size | Thickness | Stem Angle | Crown | Hole Spacing | Bolthole Size |
|-------------|--------|-----------|------------|-------|--------------|---------------|
| N237718 | 16-in. | 1/4-in. | NA | NA | 2 1/4-in. | 1/2-in. |
| N237719 | 18-in. | 1/4-in. | NA | NA | 2 1/4-in. | 1/2-in. |

Chisel Points for Heel Sweeps, Double Point

| Part Number | Size | Thickness |
|-------------|--------------------|-----------|
| N130189 | 2-in. x 14-in. | 5/8-in. |
| N130190 | 2-in. x 16-in. | 5/8-in. |
| N130193 | 4-in. x 14 1/2-in. | 3/8-in. |

Single-Point Chrome Cap

| Part Number | Size | Thickness |
|-------------|----------------|-----------|
| N237890 | 2-in. x 12-in. | 7/8-in. |
| AN231796 | 2-in. x 12-in. | 7/8-in. |

Heavy-Duty Double Point

| Part Number | Size | Thickness |
|-------------|----------------|-----------|
| N237910 | 2-in. x 16-in. | 7/8-in. |

Hardware

| Kit Part Number | Part Number | Quantity | Part Description |
|---|-------------|----------|---|
| For-N130189, N130190, N130193 and AN231796 without heel sweep | | | |
| AN234106 | 10H1238 | 50 | 1/2-in. x 2 3/4-in. Bolt |
| | 14H960 | 50 | 1/2-in. Heavy Hex |
| | 12H301 | 50 | 1/2-in. Washer |
| For-AN231796 with heel sweep, N237890 and N237910 | | | |
| No kit order individual parts | N234753 | 50 | 3/8-in. x 1 3/4-in. Grade 8 Bolt |
| | 10H1239 | 50 | 1/2-in. x 3-in. Hex |
| | 24H1305 | 50 | 13/32-in. x 13/16-in. x 1/16-in. Washer |



Chisel plow parts

Fits Brillion, Brinkley, Bush Hog, Case, Glencoe, Hiniker, John Deere, KMC, Krause, Landoll, Noble, Taylor, and Wil-Rich (three-piece assembly parts).

Chisel Parts

| Part Number | Description | OEM Number |
|--|---|------------|
| A — Single-piece twisted slash point | | |
| N237720 | 1/2- x 4- x 26-in. Twisted Slash Point (RH) | |
| N237721 | 1/2- x 4- x 26-in. Twisted Slash Pointt (LH) | |
| N237722 | 1/2- x 4- x 26-in. Twisted Slash Point, Hard Faced (RH) | |
| N237723 | 1/2- x 4- x 26-in. Twisted Slash Point, Hard Faced (LH) | |
| B — Points for moldboard twist assembly | | |
| N237724 | 1/2- x 4-in. Soil-Saver Point (RH) | 6135 |
| N237725 | 1/2- x 4-in. Soil-Saver Point (LH) | 6167 |
| N237726 | 1/2- x 4-in. Soil-Saver Point, Hard Faced (RH) | 6136 |
| N237727 | 1/2- x 4-in. Soil-Saver Point, Hard Faced (LH) | 6168 |
| C — Moldboards for moldboard assembly | | |
| N237728 | 1/2- x 4- x 18-in. Soil-Saver Moldboard (RH) | 6137 |
| N237729 | 1/2- x 4- x 18-in. Soil-Saver Moldboard (LH) | 6138 |



A—Single-piece twisted slash point (N237720)



B—Points for moldboard assembly (N237724)



C—Moldboards for moldboard assembly (N237729)

Hardware for Points, Moldboards, and Twist Assemblies

| Part Number | Description | OEM umber |
|-------------|--|-----------|
| PMCH1483 | 1/2-in. Clipped Head Bolt 1 1/4" length | |
| 12H301 | 1/2-in. Hex Nut | |

Twisted Shovels

Features and Benefits

- Offer versatility for your primary tillage operation.
- 24-in. concave shovel generates “soil ribbons” that tackdown residue and reduce erosion damage.
- 22-in. flat shovel provide excellent soil/trash mixing and compaction control.

Concave Twisted Shovels

| Part Number | Size | Material Thickness | Weight (lb.) |
|-------------|-------------------|--------------------|--------------|
| N181913 | 3-in. x 24-in. LH | 1/2-in. | 9.00 |
| N181912 | 3-in. x 24-in. RH | 1/2-in. | 9.00 |
| N181907 | 4-in. x 24-in. LH | 1/2-in. | 11.00 |
| N181906 | 4-in. x 24-in. RH | 1/2-in. | 11.00 |



Flat Twisted Shovels

| Part Number | Size | Material Thickness | Weight (lb.) |
|-------------|-------------------|--------------------|--------------|
| N130195 | 3-in. x 22-in. LH | 3/8-in. | 6.00 |
| N130194 | 3-in. x 22-in. RH | 3/8-in. | 6.00 |
| N182107 | 3-in. x 22-in. LH | 1/2-in. | 8.00 |
| N182108 | 3-in. x 22-in. RH | 1/2-in. | 8.00 |
| N182109 | 4-in. x 22-in. LH | 1/2-in. | 10.40 |
| N182110 | 4-in. x 22-in. RH | 1/2-in. | 10.40 |



Chisel plow parts

Seeding Shovels and Weeding Knives



Seeding Shovels

| Part Number | Size/Description | Material Thickness | Weight (lb.) |
|-------------|---|-----------------------------------|--------------|
| B910M | 1 ³ / ₁₆ -in. Double-Point Shovel | ³ / ₁₆ -in. | 0.70 |
| K144M | 1 ³ / ₄ -in. Double-Point Shovel | ³ / ₁₆ -in. | 0.95 |
| N182058 | 1 ⁵ / ₈ -in. x 8-in. Double-Point Shovel | ¹ / ₄ -in. | 1.00 |
| N506M | 1 ³ / ₄ -in. x 10-in. Double-Point Shovel (43-deg.) | ⁵ / ₁₆ -in. | 1.13 |
| N188990 | 1 ³ / ₄ -in. x 10-in. Double-Point Shovel (47-deg.) | ⁵ / ₁₆ -in. | 1.13 |
| N182029 | 2-in. x 10-in. Double-Point Shovel (55-deg.) | ⁵ / ₁₆ -in. | 1.59 |
| M15012 | 2 ¹ / ₄ -in. Single-Point Wraparound Shovel | ¹ / ₄ -in. | 1.57 |
| M17050 | 4-in. Single-Point Wraparound Shovel | ¹ / ₄ -in. | 2.25 |

Weeding Knives

| Part Number | Size | Weight (lb.) |
|-------------|-----------|--------------|
| A38642 | 26-in. LH | 6.90 |
| A38641 | 26-in. RH | 6.90 |

Row-Crop Cultivator Sweeps

Tru-Width™ Sweeps



Features and Benefits

- Unique, proven, Tru-Width design maintains cutting width throughout sweep life, which can extend 30 percent* beyond that of conventional sweeps.
- Ridged medium crown ensures long point life for ongoing consistent tillage action. It parts soil and improves mixing action, chemical incorporation, and weed eradication.
- Wing angle is set on each type to optimize performance related to respective tillage/seeding practices.
- Because of their unique wraparound design, Tru-Width sweeps provide even draft and maximum holding power.

Tru-Width Row-Crop Cultivator Sweeps

| Part Number | Size | Thickness | Stem Angle | Crown | Hole Spacing | Bolthole Size |
|-------------|------------|----------------------------------|------------|--------|------------------------------------|-----------------------------------|
| N232829 | 24-in. | ¹ / ₄ -in. | 51-deg. | Medium | 2 ¹ / ₄ -in. | ⁷ / ₁₆ -in. |
| N233903* | 24-in. XLT | ¹ / ₄ -in. | 51-deg. | Medium | 2 ¹ / ₄ -in. | ⁷ / ₁₆ -in. |

XLT=Xtra-Life coating on wings, point, and stem

Hardware

| Kit Part Number | Part Number | Quantity | Part Description |
|-----------------|-------------|----------|---|
| AN234095 | N181782 | 50 | ⁷ / ₁₆ -in. x 1 ³ / ₄ -in. Bolt |
| | 12H293 | 50 | ⁷ / ₁₆ -in. Lock Washer |
| | 14H813 | 50 | ⁷ / ₁₆ -in. Hex Nut |
| AN234104 | 10H1236 | 50 | ¹ / ₂ -in. x 2 ¹ / ₄ -in. Bolt |
| | 12H301 | 50 | ¹ / ₂ -in. Washer |
| | 14H960 | 50 | ¹ / ₂ -in. Heavy Hex Nut |

*Based on internal testing performed in 2012 and 2013.

Row-Crop Cultivator Sweeps

Conventional Row-Crop Cultivator Sweeps

Features and Benefits

- Nose angle is precisely set for excellent soil penetration.
- Both low and medium-crown wing designs provide excellent soil mixing and residue retention.
- Wing ends are clipped for minimum soil side throw.
- 3/16-in. and 1/4-in. thickness options are dependent upon soil conditions and sweep applications.
- Provide an economical tillage value.
- Available for many all-makes applications.



Sweeps, Shovels & Hardware

Conventional Row-Crop Cultivator Sweeps

| Part Number | Size | Thickness | Angle | Crown | Wing | Hole Spacing | Bolthole Size |
|-------------|--------|-----------|---------|--------|--------|--------------|---------------|
| N239040 | 4-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239041 | 6-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239042 | 8-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239043 | 10-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239033 | 12-in. | 1/4-in. | 55-deg. | Medium | Medium | 2-in. | 7/16-in. |
| N239034 | 14-in. | 1/4-in. | 55-deg. | Medium | Medium | 2-in. | 7/16-in. |
| N239035 | 16-in. | 1/4-in. | 55-deg. | Medium | Medium | 2-in. | 7/16-in. |

Conventional Row-Crop Cultivator Sweeps - XLT Coating

| Part Number | Size | Thickness | Angle | Crown | Wing | Hole Spacing | Bolthole Size |
|-------------|--------|-----------|---------|--------|--------|--------------|---------------|
| N239041XLT* | 6-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239042XLT* | 8-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239043XLT* | 10-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239033XLT* | 12-in. | 1/4-in. | 55-deg. | Medium | Medium | 2-in. | 7/16-in. |
| N239034XLT* | 14-in. | 1/4-in. | 55-deg. | Medium | Medium | 2-in. | 7/16-in. |
| N239035XLT* | 16-in. | 1/4-in. | 55-deg. | Medium | Medium | 2-in. | 7/16-in. |

*XLT=Xtra-Life coating on wings, point, and stem



3/4 Conventional Row-Crop Cultivator Sweeps

| Part Number | Description | Size | Thickness | Angle | Crown | Wing | Hole Spacing | Bolthole Size |
|-------------|---------------|-----------|-----------|---------|--------|--------|--------------|---------------|
| N239036 | 3/4 Wing — RH | 5-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239037 | 3/4 Wing — LH | 5-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239038 | 3/4 Wing — RH | 6 1/2-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N239039 | 3/4 Wing — LH | 6 1/2-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N187688 | 3/4 Wing — RH | 7 3/4-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |
| N187689 | 3/4 Wing — LH | 7 3/4-in. | 3/16-in. | 55-deg. | Medium | Narrow | 2-in. | 7/16-in. |



Hardware

| Kit Part Number | Quantity | Part Number | Part Description |
|-----------------|----------|-------------|------------------------------|
| AN181518 | 50 | 09H1761 | 7/16-in. x 2 1/2-in. Bolt |
| | 50 | 24M7180 | .105-in. x 1 1/2-in. Washer |
| | 50 | 14H813 | 7/16-in. Hex Nut |
| AN181520 | 50 | 09H1765 | 7/16-in. x 1 1/2-in. Bolt |
| | 50 | 24H1327 | .105-in. x 1 5/32-in. Washer |
| | 50 | 14H813 | 7/16-in. Hex Nut |
| AN181521 | 50 | 03H1528 | 5/8-in. x 1 1/2-in. Bolt |
| | 50 | 24H1139 | .105-in. x 1 1/16-in. Washer |
| | 50 | 14H760 | 5/8-in. Hex Nut |

Row-Crop Cultivator Sweeps

S-Tine Sweeps and Shovels for Row-Crop Cultivators



Features and Benefits

- Built with unique wraparound design, leading to a tight square shank-to-standard fit.
- Produces even draft and maximum holding power.

S-Tine Sweeps and Shovels for Row-Crop Cultivators

| Part Number | Size | Thickness | Angle | Crown | Hole Spacing | Bolthole Size |
|-------------|--|-----------|---------|--------|--------------|---------------|
| N182058 | 1 ⁵ / ₈ -in. x 8-in. | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| AN232008 | 1 ⁵ / ₈ -in. x 8-in. Kit | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| N182059 | 2 ³ / ₄ -in. | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| AN232009 | 2 ³ / ₄ -in. Kit | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| N182059XLT* | 2 ³ / ₄ -in. | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| N182060 | 4-in. | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| AN232010 | 4-in. Kit | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| N182060XLT* | 4-in. | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| N182076 | 4-in. V-Pattern | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| AN232011 | 4-in. V-Pattern Kit | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| N182076XLT* | 4-in. V-Pattern | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| N182061 | 7-in. | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| N182061XLT* | 7-in. | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |
| N182081 | 9-in. | 1/4-in. | 43-deg. | Medium | NA | 3/8-in. |

*XLT=Xtra-Life coating on wings, point, and stem

Hardware

| Kit Part Number | Part Number | Quantity | Part Description |
|-----------------|-------------|----------|---|
| AN232013 | N234753 | 50 | 3/8-in. x 1 ³ / ₄ -in. Bolt |
| | 24H1139 | 50 | .060-in. x 1 ³ / ₃₂ -in. Washer |
| | 14H931 | 50 | 3/8-in. Hex Nut |

Rotary Hoe Wheel



Sixteen curved tines on each wheel explode soil crust and uproot weeds. These wheels can also fit Yetter, M&W, and Hiniker rotary hoes.

- Triple-sealed bearing for long life.
- Spoon-formed tine for excellent aeration and weed eradication.
- Accurately peened rivets strengthen wheel construction for long life.

Rotary Hoe Wheel

| Part Number | Description | Weight (lb.) | Diameter (in.) |
|-------------|------------------|--------------|----------------|
| AN142664 | Rotary Hoe Wheel | 12.80 | 21 |

Row-Crop Cultivator Sweeps

Precision Plus Fin and Precision Plus Narrow-Wing S-Tine Sweeps

Features and Benefits

- Greatly reduces the likelihood of shoe breakage, because the shoe slotted, tang-inserted, and double welded (top and bottom).
- The sweeps reduce twisting and have an extended product life.



Sweeps, Shovels & Hardware

Precision Plus Fin and Precision Plus Narrow-Wing S-Tine Sweeps

| Part Number | Size | Thickness |
|-------------|--------|-----------|
| AN231772 | 8-in. | 3/16-in. |
| AN231773 | 10-in. | 3/16-in. |
| AN231774 | 12-in. | 3/16-in. |
| AN231775 | 14-in. | 3/16-in. |

Hardware

| Part Number | Part | Part Description |
|-------------|------|--------------------------|
| 03H1746 | Bolt | 1/2-in. x 1 1/4-in. Bolt |
| 14H1040 | Nut | 1/2-in. Hex Nut |

Precision Plus Narrow-Wing Sweeps

| Part Number | Size | Thickness |
|-------------|--------|-----------|
| N182082 | 8-in. | 3/16-in. |
| N182083 | 10-in. | 3/16-in. |
| N182084 | 12-in. | 1/4-in. |
| N182085 | 14-in. | 1/4-in. |



Hardware

| Kit Part Number | Part Number | Quantity | Part Description |
|-----------------|-------------|----------|----------------------------------|
| AN232013 | N234753 | 50 | 3/8-in. x 1 3/4-in. Grade 8 Bolt |
| | 24H1305 | 50 | .060-in. x 1 3/32-in. Washer |
| | 14H931 | 50 | 3/8-in. Hex Nut |

Attaching Hardware Information

Sweeps, Shovels & Hardware

| Part Number | Hardware Kit Description | Kit Breakdown | | | | | |
|-------------|--|---------------|----------------------|---------|-------------------|---------|------------------------|
| | | Bolt | Description | Nut | Description | Washer | Description |
| AN181518 | Sweep Bolts (50 – 7/16 x 2 1/2) | 09H1761 | 7/16-in. x 2 1/2-in. | 14H813 | 7/16-in. Hex | 24M7180 | .105-in. x 1 1/2-in. |
| | Part no longer a kit — order individual pieces | 03H1857 | 5/8-in. x 2 3/4-in. | 14H1039 | 5/8-in. Hex | 24H1192 | .105-in. x 1 1/16-in. |
| AN181520 | Sweep Bolts (50 – 7/16 x 1 1/2) | 09H1765 | 7/16-in. x 1 1/2-in. | 14H813 | 7/16-in. Hex | 24H1327 | .105-in. x 1 5/32-in. |
| AN181521 | Sweep Bolts (50 – 5/8 x 1 1/2) | 03H1528 | 5/8-in. x 1 1/2-in. | 14H760 | 5/8-in. Hex | 24H1139 | .105-in. x 1 1/16-in. |
| AN232013 | Sweep Bolts (50 – 3/8 x 1 3/4) | N234753 | 3/8-in. x 1 3/4-in. | 14H931 | 3/8-in. Hex | 24H1305 | .060-in. x 1 13/32-in. |
| AN234095 | Sweep Bolts (50 – 7/16 x 1 3/4) | N181782 | 7/16-in. x 1 3/4-in. | 14H813 | 7/16-in. Hex | 24H1327 | .105-in. x 1 5/32-in. |
| AN234096 | Sweep Bolts (50 – 7/16 x 2 1/4) | 10H1160 | 7/16-in. x 2 1/4-in. | 14H813 | 7/16-in. Hex | 24H1327 | .105-in. x 1 5/32-in. |
| | Part no longer a kit — order individual pieces | N181784 | 7/16-in. x 2 1/4-in. | 14H813 | 7/16-in. Hex | 24H1327 | .105-in. x 1 5/32-in. |
| AN234098 | Sweep Bolts — Special Head | N181783 | 7/16-in. x 2-in. | 14H813 | 7/16-in. Hex | 24H1327 | .105-in. x 1 5/32-in. |
| AN234099 | Sweep Bolts (50 – 3/8 x 1 1/4) | 10H1027 | 3/8-in. x 1 1/4-in. | 14H812 | 3/8-in. Hex | 24H1305 | .060-in. x 1 13/32-in. |
| AN234100 | Sweep Bolts (50 – 7/16 x 1 1/2) | 10H1073 | 7/16-in. x 1 1/2-in. | 14H813 | 7/16-in. Hex | 24M7043 | .060-in. x 1 5/32-in. |
| AN234101 | Sweep Bolts (50 – Special Head) | N189527 | No. 3 Head | 14H812 | 3/8-in. Hex | 24H1305 | .060-in. x 1 13/32-in. |
| AN234102 | Sweep Bolts (50 – 7/16 x 1 3/4) | 10H1158 | 7/16-in. x 1 3/4-in. | 14H813 | 7/16-in. Hex | 24M7043 | .060-in. x 1 5/32-in. |
| AN234103 | Sweep Bolts (50 – 1/2 x 2) R.O. | 10H1246 | 1/2-in. x 2-in. | 14H960 | 1/2-in. Heavy Hex | 12H301 | 1/2-in. Lock Washer |
| AN234104 | Sweep Bolts (50 – 1/2 x 2 1/4) | 10H1236 | 1/2-in. x 2 1/4-in. | 14H960 | 1/2-in. Heavy Hex | 12H301 | 1/2-in. Lock Washer |
| AN234105 | Sweep Bolts (50 – 1/2 x 2 1/2) R.O. | 10H1237 | 1/2-in. x 2 1/2-in. | 14H960 | 1/2-in. Heavy Hex | 12H301 | 1/2-in. Lock Washer |
| AN234106 | Sweep Bolts (50 – 1/2 x 2 3/4) R.O. | 10H1238 | 1/2-in. x 2 3/4-in. | 14H960 | 1/2-in. Heavy Hex | 12H301 | 1/2-in. lock washer |
| AN234168 | Sweep Bolts (50 – 7/16 x 2) | 10H1159 | 7/16-in. x 2-in. | 14H813 | 7/16-in. Hex | 24H1327 | .105-in. x 1 5/32-in. |
| AN234540 | Perma-Loc™ Hardware Bundle (50 PCS) (FC) | 10H1159 | 7/16-in. x 2-in. | 14H813 | 7/16-in. Hex | 24H1327 | .105-in. x 1 5/32-in. |
| AN234961 | Perma-Loc™ Hardware Bundle (50 PCS) (200# Standard FC) | 10H1160 | 7/16-in. x 2 1/4-in. | 14H813 | 7/16-in. Hex | 24H1327 | .105-in. x 1 5/32-in. |

| Part Number | Hardware Kit Description | Tru-Width™ FC | Conventional Wing FC | Perma-Loc™ FC | Tru-Width™ CP | Conventional Wing CP | Conventional Row-Crop FC | Tru-Width™ Row-Crop FC | S-Tine | Precision Plus |
|--------------------|----------------------------|---------------|----------------------|---------------|---------------|----------------------|--------------------------|------------------------|--------|----------------|
| Sweep Bolts | | | | | | | | | | |
| AN181518 | 50 – 7/16 x 2 1/2 | | | | | | x | | | |
| AN181520 | 50 – 7/16 x 1 1/2 | | | | | | x | | | |
| AN181521 | 50 – 5/8 x 1 1/2 | | | | | | | | | |
| AN232013 | 50 – 3/8 x 1 3/4 | | | | | | | | x | x |
| AN234095 | 50 – 7/16 x 1 3/4 | | | | | | | x | | |
| AN234096 | 50 – 7/16 x 2 1/4 | | | | | | | | | |
| AN234098 | Special Head | | | | | | | | | |
| AN234099 | 50 – 3/8 x 1 1/4 | | | | | | | | | |
| AN234100 | 50 – 7/16 x 1 1/2 | x | x | | | | | | | |
| AN234101 | 50 – Special Head | x | x | | | | | | | |
| AN234102 | 50 – 7/16 x 1 3/4 | | | | | | | | | |
| AN234103 | 50 – 1/2 x 2 R.O. | | | | | | | | | |
| AN234104 | 50 – 1/2 x 2 1/4 | | | | x | x | | | | |
| AN234105 | 50 – 1/2 x 2 1/2 R.O. | | | | x | x | | | | |
| AN234106 | 50 – 1/2 x 2 3/4 R.O. | | | | | | | | | |
| AN234168 | 50 – 7/16 x 2 | | | | | | | | | |
| AN234540 | 50 PCS — FC | | | x | | | | | | |
| AN234961 | 50 PCS 200# Standard FC | | | x | | | | | | |

RIPPER POINTS



Ripper Points

Ripper Points

LaserRip™ II Ripper Points

Features and Benefits

- High-Performance for those operating in difficult conditions.
- Critical wear areas are thicker for increased wear life.
- Exclusive cast material ensures resistance to rock chipping.
- Patented enlarged mounting holes for bolt head protection and retention.
- Fits John Deere and many competitive machines with 1 1/4-in parabolic standards.

LaserRip II Ripper Points

LaserRip II Points to fit 1 1/4-in. Standard for John Deere (Front mounting hole)

| Part Number | Size | Applications | Standard |
|-------------|----------|--------------|---------------------|
| KK28539 | Wingless | Deere | 1 1/4-in. Parabolic |
| KK28540 | 5-in. | Deere | 1 1/4-in. Parabolic |
| KK28541 | 7-in. | Deere | 1 1/4-in. Parabolic |
| KK28542 | 10-in. | Deere | 1 1/4-in. Parabolic |

LaserRip II Points to fit 1 1/4-in. Standard for CNH/DMI/Brillion (Rear mounting hole)

Seamlessly install John Deere LaserRip II points on Kuhn/Krause and Case IH machines with wear shins. The new design does not require the operator to modify the points at installation or remove the wear shin.

| | Size | Application | Standard |
|---------|----------|------------------|---------------------|
| N401043 | Wingless | CNH/DMI/Brillion | 1 1/4-in. Parabolic |
| KK30374 | 7-in. | CNH/DMI/Brillion | 1 1/4-in. Parabolic |
| KK31538 | 10-in. | CNH/DMI/Brillion | 1 1/4-in. Parabolic |



LaserRip Ripper Points for All-Makes Applications

Features and Benefits

- Exclusive cast material ensures high resistance to rock chipping.
- Critical wear areas thicker for increased wear life.

Regular-Duty LaserRip Ripper Points

| Part Number | Size | Applications | Standard |
|-------------|-----------|--------------|---------------------|
| N237223 | 2 3/4-in. | Sunflower | 1 1/4-in. Parabolic |
| N237224 | 7-in. | Sunflower | 1 1/4-in. Parabolic |
| N236412 | 2 3/4-in. | DMI | 1 1/2-in. Parabolic |
| N400739 | 7-in. | DMI | 1 1/2-in. Parabolic |
| N400740 | 10-in. | DMI | 1 1/2-in. Parabolic |



LaserRip™ Classic

The John Deere LaserRip™ Classic is a low disturbance ripper point, ideal for operators who want to create less soil disturbance and a more even soil profile at shallower depths.

| Part Number | Size | Applications |
|-------------|--------|--------------|
| KK47198 | 7-in. | Deere |
| KK47199 | 10-in. | Deere |



Min-Till LaserRip Points

Features and Benefits

- Designed to create minimum soil disturbance

Min-Till Ripper Point

| Part Number | Size | Standard | Soil Surface Profile | Fracturing | Penetration | Speed Sensitivity | Residue Retention |
|-------------|----------|----------|-----------------------|------------|-------------|-------------------|-------------------|
| N262903 | Wingless | 3/4-in. | Ultra Low Disturbance | Good | Best | Best | Best |
| N262740 | 7-in. | 3/4-in. | Moderate Disturbance | Best | Best | Good | Good |
| N262902 | 10-in. | 3/4-in. | Low Disturbance | Best | Better | Better | Better |



Steel Ripper Points

Features and Benefits

- Designed for highly abrasive soils.
- Economical way to meet standard tillage needs.

Regular-Duty Steel Ripper Points — 3/4-in. thickness

| Part Number | Size | Material Thickness | Type |
|-------------|---------------------|--------------------|---------------------------|
| AA21507 | 2 1/4-in. x 3/4-in. | 3/4-in. | Standard |
| AN260481 | 3-in. x 3/4-in. | 3/4-in. | Single Capped (3 3/4-in.) |
| AN260482 | 3-in. x 3/4-in. | 3/4-in. | Double Capped (7 1/2-in.) |

Heavy-Duty Steel Ripper Points — 1 1/4-in. thickness

| Part Number | Size | Material Thickness | Type |
|-------------|-----------------------|--------------------|-----------------------------------|
| AP39487 | 2 1/2-in. x 1 1/4-in. | 1 1/4-in. | Standard |
| AP39496 | 3-in. x 1 1/4-in. | 1 1/4-in. | Single Chrome Capped (3 3/4-in.) |
| AP39491 | 3-in. x 1 1/4-in. | 1 1/4-in. | Full-Cover Chrome Capped (10-in.) |



Sizes available: 4-in. to 8-in.
N262718 (4-in.), N262719
(6-in.), N262720 (8-in.)

Ripper Points

Coverboards

- For use with LaserRip points on 1 1/4-in. and 1 1/2-in. parabolic standards: John Deere, Case, and DMI. Not for use with wear shins.
- Fit John Deere 2700 Mulch Ripper.

Soil Compaction Tester

Get the best crop yield by measuring the extent and depth of subsurface compaction with the brand new John Deere Soil Compaction Tester.

Some features include:

- 24" stainless steel rod with adjustable shock collar to prevent damage
- Easy-to-read, color coded stainless steel dial that is liquid-filled to reduce shock
 - Green (0-200 psi) = Good growing conditions
 - Yellow (200-300 psi) = Fair growing conditions
- Large and small tip included with convenient storage in tester housing
 - 1/2" tip for firm soil
 - 3/4" tip for soft soil
- Durable molded housing with rubber grip handle

See your local dealer to learn more.



SW SCT08180

NUTRIENT APPLICATION

Timely application and proper placement of nutrients help ensure plants thrive and reach their maximum yield potential while being environmentally responsible.



Nutrient Application Parts

Conventional Applicator Knives

Features and Benefits

- Chrome carbide point for excellent wear
- Available as a standard knife or with vapor tube
- Universal mounting hole for All-Makes applications
- Shank is high strength steel

Anhydrous Knife

| Part Number | Description | Thickness |
|-------------|---|-----------|
| AN231685 | Conventional Applicator knife | 1/2in |
| AN401419 | Conventional Anhydrous knife | 1/2in |
| AN401420 | Conventional Anhydrous knife with Vapor | 1/2in |
| AN401421 | Mole Anhydrous knife | 1/2in |
| AN401422 | Mole Anhydrous knife with Vapor | 1/2in |



Heavy-Duty Strip-Till Knives

Features and Benefits

- Provides consistent nutrient placement along with superior compaction shattering.
- Cast-chrome pin-on point provides excellent lifting and fracturing without soil inversion or blowout.
- Points can easily be switched out in season between the mole style and wingless style, depending on soil and field conditions
- Reference page 27 for Heavy Duty part detail

Replaceable Pin-on Points

Features and Benefits

- New wingless point provides a low disturbance option for customers who want to run shallow and fast
- Mole-style option for customers requiring more aggressive tillage and compaction shattering
- Chrome-carbide for excellent wear performance
- Points easily switched between mole and wingless style, depending on soil and field conditions
- Wingless point available as a service part only



AN236320



AN237013

Replaceable Pin-On Points

| Part number | Description |
|-------------|---|
| AN236320 | Mole-Style Replaceable Pin-On Point Kit |
| AN237013 | Wingless Replaceable Pin-On Point Kit |

Replaceable Points for 2410C and 2430C

| Part number | Description |
|-------------|-------------------------|
| AKK22496 | Bolt-on point |
| AKK22497 | Bolt-on point w/vapor |
| AKK12703 | Pin-on Point |
| AKK12704 | Pin-on Point with Vapor |



AKK22487

Nutrient Application Part Detail

Knife part numbers on this page fit the John Deere 2510S. Please note: Poly liquid and vapor tube not included with knife. The poly tubes (liquid and vapor) come with the anhydrous flow system for the toolbar.

| Application | Part Number | Quantity | Part Descriptions |
|---|-------------|----------|---|
| Anhydrous  | AN236291 | 1 | Knife Configuration ($\frac{3}{8}$ -in. stainless steel anhydrous ammonia tube) |
| Anhydrous, Dry, and Vapor  | AN236292 | 1 | Knife Configuration ($\frac{3}{8}$ -in. stainless steel anhydrous ammonia, $1\frac{3}{4}$ -in. dry, and $\frac{3}{4}$ -in. vapor tube) |
| Anhydrous and Dry  | AN236292 | 1 | Knife Configuration ($\frac{3}{8}$ -in. stainless steel anhydrous ammonia and $1\frac{3}{4}$ -in. dry tube) |
| Anhydrous and Liquid  | AN236293 | 1 | Knife Configuration ($\frac{3}{8}$ -in. stainless steel anhydrous ammonia and $\frac{1}{2}$ -in. liquid tube) |
| Anhydrous and Vapor  | AN236293 | 1 | Knife Configuration ($\frac{3}{8}$ -in. stainless steel anhydrous ammonia and $\frac{3}{4}$ -in. vapor tube) |
| Anhydrous, Liquid, and Vapor  | AN236293 | 1 | Knife Configuration ($\frac{3}{8}$ -in. stainless steel anhydrous ammonia, $\frac{1}{2}$ -in. liquid, and $\frac{3}{4}$ -in. vapor tube) |
| Mole-Style Replaceable Pin-On Point Kit  | AN236320 | 1 | Cast-Chrome Pin-On Point with A35642 Roll Pin |
| Wingless Replaceable Pin-On Point Kit  | AN237013 | 1 | Cast-Chrome Reduced Disturbance Pin-On Point with A35462 Roll Pin |
| Mounting Hardware | 19M7481 | 2 | M16 x 80 Cap Screw |
| | 14M7589 | 2 | M16 Locknut |

DISK BLADES AND BEARINGS



Disk Blades



Farms and farm equipment manufacturers are requiring a lot more of their disk blades these days. These blades are expected to operate at high speeds pulled by higher horse-power tractors.

John Deere disk blades are manufactured to provide the optimal performance of the tool they are designed for. This includes specifications such as thickness, concavity, hardness and edge type, which most competitive blades don't meet. While we provide specific OEM blades, John Deere also offers all-makes blades that fit on most common competitive machines.

Performance

It is important that replacement blades are compatible with the specific operation. Characteristics such as correct blade diameter, shape, thickness, and edge will affect overall disk performance and must be considered. Choosing the best blade for a specific operation will give the type of penetration, mixing, and residue flow you want without ridging.

Basic Shapes of Disk Blades

John Deere offers four main disk blade shapes: Spherical, raised flat center, conical and cutout blades. The spherical is the most common blade and has no flat areas on the disk. A variation of the spherical is the raised flat center and this blade can be commonly found on the Case-IH brand disks. Conical blades represent a shape cut from a cone. These blades provide aggressive action and it is important that they keep consistent dimension for the entire disk to work properly. Cutout or notched blades are used to penetrate through wet or heavy soil types or fields with more crop residue.

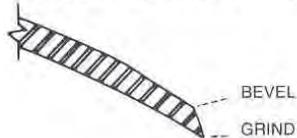


Vertical Tillage

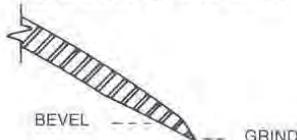
John Deere offers two basic vertical tillage blades, 13 wave for the 2600 series disks and Commander blades for the 2660VT. Vertical tillage blades are generally flatter and regular blades as they need to operate at higher speed without creating excessive soil movement.

TYPES OF DISK EDGES

EDGE #1
OUTSIDE BEVEL, OUTSIDE GRIND



EDGE #10
INSIDE BEVEL, OUTSIDE GRIND



Edge

Select the blade edge to best match customer needs. The No. 1 edge has a beefier profile and is best for rocky conditions. The No. 10 edge has a narrower profile and should work well in most non-rock conditions. Competitors usually offer only one kind of edge.

Edge-Rolling

John Deere offers several disk blades that will support the edge-rolling practices that are commonly used in some areas of the country. John Deere does not recommend rolling disk blades that do not have this "rollable" designation.

John Deere Disk Blade-Replacement Recommendations

Generally a blade will begin to lose its effectiveness for leveling and penetration when it has worn down past **15 to 20** percent of its original size. For example, the following blade sizes would be worn down as follows when applying that rule of thumb:

- 26-in. original diameter — replace when worn to 20¹/₂–21-in.
- 24-in. original diameter — replace when worn to 19¹/₂–20-in.
- 22-in. original diameter — replace when worn to 18¹/₂–19-in.

Type of Disk Blades

| Code | Description | Shape |
|------|-------------------|---|
| C | Cutout |  |
| PF | Plain Flat Center |  |
| P | Plain Edge |  |

Common Thicknesses (Gauge)

| Metric | Birmingham | Standard |
|----------------|---------------|-----------------|
| 3.0 mm (.118) | 11 ga. (.125) | 1/8 in. (.125) |
| 3.5 mm (.138) | 10 ga. (.134) | |
| 4.0 mm (.157) | 9 ga. (.148) | |
| | 8 ga. (.169) | |
| 4.5 mm (.177) | 7 ga. (.180) | 3/16 in. (.187) |
| 5.0 mm (.197) | 6 ga. (.203) | |
| 6.5 mm (.256) | | 1/4 in. (.250) |
| 8.0 mm (.315) | | 5/16 in. (.312) |
| 10.0 mm (.394) | | 3/8 in. (.375) |
| 12.0 mm (.472) | | 1/2 in. (.500) |

Decimal equivalents are in parentheses for comparison.

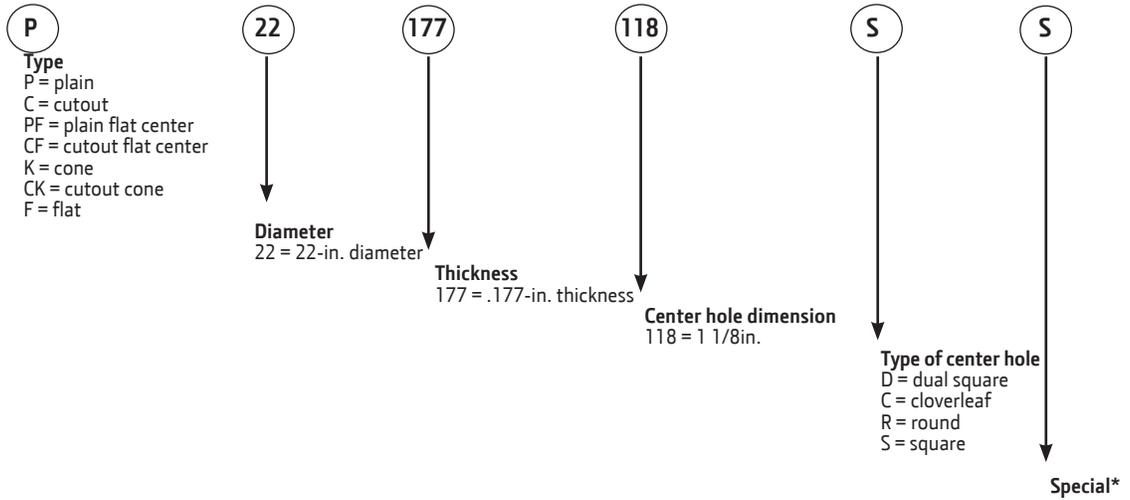
Center holes

| Code | Description | Shape | Code | Description | Shape |
|------|--------------|---|------|-------------|---|
| R | Round |  | D | Dual Square |  |
| RS | Round Square |  | S | Square |  |

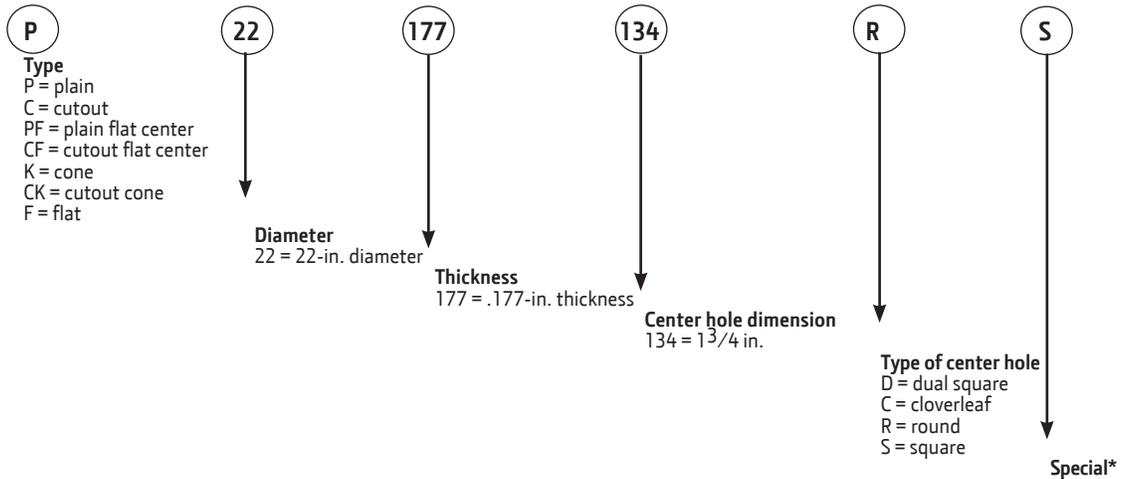
All-Makes Disk Blades — Smart Part Instructions

See the examples below to understand the smart part numbers established for all brands of disk blades.

Example #1: P22177118S



Example #2: P22177134R



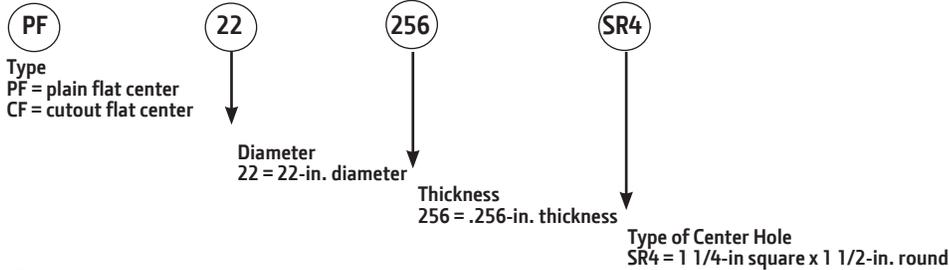
*When sizing Case-IH square/round holes, utilize the hole type code to develop part number.

All-Makes Disk Blades — Smart Part Instructions (continued)

Square Round Center Hole Codes for CNH/IHC Blades

| Code | Arbor Square Dimension | Arbor Round Dimension | Blade Square Dimension | Blade Round Dimension |
|--------|------------------------|-----------------------|------------------------|-----------------------|
| SR-1 | 7/8-in. | 1-in. | | |
| SR-2 | 1-in. | 1 1/8-in. | 59/64-in. | 13/64-in. |
| SR-3 | 1 1/8-in. | 1 1/4-in. | 13/64-in. | 111/64-in. |
| SR-4 | 1 1/4-in. | 1 1/2-in. | 111/64-in. | 119/64-in. |
| SR-4.5 | 1 1/2-in. | 1 5/8-in. | 119/64-in. | 135/64-in. |
| SR-5 | 1 1/2-in. | 1 3/4-in. | 135/64-in. | 143/64-in. |
| SR-6 | 1 3/4-in. | 2-in. | 151/64-in. | 151/64-in. |
| SR-7 | 2 1/4-in. | 1 1/2-in. | 219/64-in. | 235/64-in. |

Example #4: PF22256SR4



*Blades are typically sized with a concavity directly related to the diameter.

For special disking applications, deviations in concavities may occur. When a blade has a special concavity, the part number will be noted with "S". Special concavities are used on plain blades only. The print must be reviewed to identify unique concavity.

Diameter Typical concavity

- 16 in. 1.5 in.
- 18 in. 1.75 in.
- 20 in. 2.0 in.
- 22 in. 2.50 in.
- 24 in. 3.0 in.
- 26 in. 3.5 in.

Disk Blades — Plain Edge

| Part Number | Diameter | | Thickness | | Blade Edge | Center Hole | | Center HoleShape | Concavity | | App. Type |
|-------------|----------|-----|-----------|-----|---------------|-------------|-------------|---------------------|-----------|--------|------------|
| | inch | mm | inch | mm | | inch | mm | | inch | mm | |
| 22877 | 14 | 356 | 0.098 | 2.5 | 1 | 0.53 | 13.49 | R | 1.19 | 30.23 | John Deere |
| B27492 | 14 | 356 | 0.118 | 3 | 1 | 1.17 | 29.72 | S | 1.19 | 30.23 | John Deere |
| N216471 | 14 | 356 | 0.118 | 3 | 1 | 2 | 50.8 | R | 1.19 | 30.23 | John Deere |
| A38558 | 16 | 406 | 0.118 | 3 | 1 | 1.06 | 26.92 | R | 1.5 | 38.1 | John Deere |
| B31343 | 16 | 406 | 0.118 | 3 | 1 | 1.05x1.17 | 26.59x29.77 | D | 1.45 | 36.83 | John Deere |
| N186718 | 16 | 406 | 0.177 | 4.5 | 1 | 1.05x1.17 | 26.59x29.77 | D | 1.5 | 38.1 | John Deere |
| A36156 | 18 | 457 | 0.157 | 4 | 10 | 1.17x1.30 | 29.72x33.02 | D | 2.8 | 71.12 | John Deere |
| A39551 | 18 | 457 | 0.118 | 3 | 1 | 1.06 | 26.92 | R | 1.75 | 44.45 | John Deere |
| A47239 | 18 | 457 | 0.177 | 4.5 | 1 | 1.17x1.30 | 29.77x32.94 | D | 1.75 | 44.45 | John Deere |
| B31313 | 18 | 457 | 0.118 | 3 | 1 | 1.05x1.17 | 26.59x29.77 | D | 1.75 | 44.45 | John Deere |
| B31315 | 18 | 457 | 0.138 | 3.5 | 1 | 1.17x1.30 | 29.77x32.94 | D | 1.75 | 44.45 | John Deere |
| N262113 | 18 | 457 | 0.157 | 4 | 1 | 1.16 | 29.36 | R | 1.72 | 43.69 | John Deere |
| N242994 | 18 | 457 | 0.177 | 4.5 | 1 | 2 | 50.8 | R | 1.75 | 44.5 | John Deere |
| A38658 | 20 | 508 | 0.157 | 4 | 1 | 1.06 | 26.92 | R | 2 | 50.8 | John Deere |
| A47237 | 20 | 508 | 0.256 | 6.5 | 1 | 1.17x1.30 | 29.77x32.94 | D | 2 | 50.8 | John Deere |
| B31316 | 20 | 508 | 0.157 | 4 | 1 | 1.17x1.30 | 29.77x32.94 | D | 2 | 50.8 | John Deere |
| B31318 | 20 | 508 | 0.177 | 4.5 | 1 | 1.17x1.30 | 29.77x32.94 | D | 2.03 | 51.56 | John Deere |
| B31321 | 20 | 508 | 0.177 | 4.5 | 10 | 1.17x1.30 | 29.77x32.94 | D | 3.32 | 84.33 | John Deere |
| B32709 | 20 | 508 | 0.177 | 4.5 | 1 | 1.17x1.30 | 29.77x32.94 | D | 3.2 | 81.28 | John Deere |
| N231991 | 20 | 508 | 0.177 | 4.5 | 1 | 1.17x1.30 | 29.77x32.94 | D | 1.63 | 41.4 | John Deere |
| N330738 | 20 | 508 | 0.197 | 5 | 1 | 1.17x1.30 | 29.77x32.94 | D | 1.65 | 41.91 | John Deere |
| P20177118S | 20 | 508 | 0.177 | 4.5 | 1 | 1.17 | 29.17 | S | 1.9 | 48.26 | John Deere |
| N402465 | 20 | 508 | 0.177 | 4.5 | 1 | 2 | 50.8 | R | 1.64 | 41.9 | John Deere |
| N242912 | 20 | 508 | 0.177 | 4.5 | 1 | 2 | 50.8 | R | 1.9 | 48.3 | John Deere |
| A27767 | 22 | 559 | 0.256 | 6.5 | 1 | 1.55x1.67 | 32.29x42.49 | D | 2.5 | 63.5 | John Deere |
| A27768 | 22 | 559 | 0.256 | 6.5 | 10 | 1.55x1.67 | 39.29x42.52 | D | 3.74 | 94.99 | John Deere |
| A28610 | 22 | 559 | 0.256 | 6.5 | 10 | 1.17x1.30 | 29.77x32.94 | D | 3.6 | 91.77 | John Deere |
| A35487 | 22 | 559 | 0.256 | 6.5 | 1 | 1.17x1.30 | 29.72x33.02 | D | 2.56 | 65.02 | John Deere |
| A42170 | 22 | 559 | 0.256 | 6.5 | 1 | 1.57 | 39.88 | R | 2.5 | 63.5 | John Deere |
| A49254 | 22 | 559 | 0.177 | 4.5 | 10 | 1.17x1.30 | 29.77x32.94 | D | 2.5 | 63.5 | John Deere |
| B32711 | 22 | 559 | 0.177 | 4.5 | 10 | 1.17x1.30 | 29.77x32.94 | D | 3.65 | 92.71 | John Deere |
| N241277 | 22 | 559 | 0.197 | 5 | 10 | 1.17x1.30 | 29.77x32.94 | D | 2.07 | 52.58 | John Deere |
| N242216 | 22 | 559 | 0.256 | 6.5 | 1 | 1.17x1.30 | 29.77x32.94 | D | 2.1 | 53.34 | John Deere |
| P22177118S | 22 | 559 | 0.177 | 4.5 | 1 | 1.17 | 29.17 | S | 2.45 | 63.5 | John Deere |
| N242915 | 22 | 559 | 0.177 | 4.5 | 10 | 2 | 50.8 | R | 2.44 | 62.2 | John Deere |
| N242917 | 22 | 559 | 0.256 | 6.5 | 1 | 2 | 50.8 | R | 2.5 | 63.5 | John Deere |
| N242996 | 22 | 559 | 0.256 | 6.5 | 1 | 2 | 50.8 | R | 2.5 | 59.8 | John Deere |
| B28211 | 24 | 610 | 0.256 | 6.5 | 10 | 1.55 | 39.29 | S | 4.18 | 106.17 | John Deere |
| B32715 | 24 | 610 | 0.256 | 6.5 | 10 | 1.3 | 32.94 | S | 3.87 | 98.3 | John Deere |
| B32721 | 24 | 610 | 0.256 | 6.5 | 10 | 1.55x1.67 | 32.29x42.49 | D | 3.87 | 98.3 | John Deere |
| B35606 | 24 | 610 | 0.256 | 6.5 | 10 | 1.3 | 32.94 | D | 2.84 | 72.14 | John Deere |
| B35610 | 24 | 610 | 0.256 | 6.5 | 10 | 1.55x1.67 | 32.29x42.49 | D | 2.84 | 72.14 | John Deere |
| K33524 | 24 | 610 | 0.187 | 4.7 | 1 | 1.58 | 40.08 | R | 3.6 | 91 | John Deere |
| N240064 | 24 | 610 | 0.177 | 4.5 | 10 | 1.17x1.30 | 29.77x32.94 | D | 2.88 | 73.15 | John Deere |
| N241278 | 24 | 610 | 0.197 | 5 | 10 | 1.17x1.30 | 29.77x32.94 | D | 2.3 | 58.42 | John Deere |
| N242322 | 24 | 610 | 0.256 | 6.5 | 1 | 1.17x1.30 | 29.77x32.94 | D | 2.3 | 58.42 | John Deere |

Disk Blades — Plain Edge continued

| Part Number | Diameter | | Thickness | | Blade Edge | Center Hole | | Center HoleShape | Concavity | | App. Type |
|-----------------------------|----------|-----|-----------|-----|------------|-------------|---------------|------------------|-----------|--------|-------------------|
| | inch | mm | inch | mm | | inch | mm | | inch | mm | |
| P24256118S | 24 | 610 | 0.177 | 4.5 | 1 | 1.17 | 29.17 | S | 2.9 | 74.68 | John Deere |
| N242920 | 24 | 610 | 0.197 | 5 | 10 | 2 | 50.8 | R | 2.29 | 58.4 | John Deere |
| N242921 | 24 | 610 | 0.256 | 6.5 | 1 | 2 | 50.8 | R | 2.83 | 72.1 | John Deere |
| N242998 | 24 | 610 | 0.256 | 6.5 | 1 | 2 | 50.8 | R | 2.29 | 57.2 | John Deere |
| A31998 | 26 | 660 | 0.256 | 6.5 | 10 | 1.55x1.67 | 32.29x42.49 | D | 4 | 101.6 | John Deere |
| B29353 | 26 | 660 | 0.256 | 6.5 | 10 | 1.55 | 39.29 | S | 4.69 | 119.13 | John Deere |
| B32717 | 26 | 660 | 0.256 | 6.5 | 10 | 1.3 | 33.02 | S | 4.51 | 114.55 | John Deere |
| B35608 | 26 | 660 | 0.256 | 6.5 | 10 | 1.3 | 33.02 | S | 4 | 101.6 | John Deere |
| N242039 | 26 | 660 | 0.256 | 6.5 | 10 | 1.3 | 33.02 | S | 3.45 | 87.63 | John Deere |
| N242923 | 26 | 660 | 0.256 | 6.5 | 1 | 2 | 50.8 | R | 3.4 | 86.4 | John Deere |
| Competitive Blade Offerings | | | | | | | | | | | |
| P22256118S | 22 | 559 | 0.256 | 6.5 | 1 | 1.17 | 29.72 | S | 2.48 | 62.99 | All-Makes |
| P24256112S | 24 | 610 | 0.256 | 6.5 | 1 | 1.5 | 38.1 | S | 3.04 | 77.22 | All-Makes |
| PM33551445 | 14 | 356 | 0.098 | 2.4 | 1 | 2.5 | 64 | R | 0.91 | 23 | DMI |
| PM33551850 | 18 | 457 | 0.138 | 3.5 | 1 | 1.8 | 46 | R | 1.6 | 41 | DMI |
| PM33552050 | 20 | 508 | 0.197 | 5 | 1 | 5.5 | 135 | R | 1.8 | 44 | DMI |
| PM33552055 | 20 | 508 | 0.256 | 6.5 | 1 | 5.5 | 135 | R | 1.8 | 44 | DMI |
| PM33552255 | 22 | 559 | 0.256 | 6.5 | 1 | 5.5 | 135 | R | 1.8 | 44 | DMI |
| P18138112R | 18 | 457 | 0.138 | 3.5 | 1 | 1.56 | 39.62 | R | 1.74 | 44.19 | Krause |
| P20177112R | 20 | 508 | 0.177 | 4.5 | 1 | 1.56 | 39.7 | R | 1.89 | 48.01 | Krause |
| P20197112R | 20 | 508 | 0.197 | 5 | 1 | 1.55 | 39.29 | R | 1.85 | 46.99 | Krause |
| P22177112R | 22 | 559 | 0.177 | 4.5 | 1 | 1.55 | 39.29 | R | 2.57 | 65.28 | Krause |
| P22197112R | 22 | 559 | 0.197 | 5 | 1 | 1.56 | 39.7 | R | 2.53 | 64.26 | Krause |
| P22256112R | 22 | 559 | 0.256 | 6.5 | 1 | 1.55 | 39.29 | R | 2.48 | 62.99 | Krause |
| P24197112R | 24 | 610 | 0.197 | 5 | 1 | 1.55 | 39.29 | R | 2.8 | 71.12 | Krause |
| P24256112R | 24 | 610 | 0.256 | 6.5 | 1 | 1.55 | 39.29 | R | 3.04 | 77.22 | Krause |
| P24256112R | 24 | 610 | 0.256 | 6.5 | 1 | 1.55 | 39.29 | R | 3.04 | 77.22 | Krause |
| P20197134RS | 20 | 508 | 0.197 | 5 | 1 | 1.8 | 45.72 | R | 1.47 | 37.34 | Landoll/Sunflower |
| P20256134RS | 20 | 508 | 0.256 | 6.5 | 1 | 1.8 | 45.72 | R | 1.45 | 36.83 | Landoll/Sunflower |
| P22177134R | 22 | 559 | 0.177 | 4.5 | 1 | 1.82 | 46.2 | R | 2.5 | 63.5 | Landoll/Sunflower |
| P22197134R | 22 | 559 | 0.197 | 5 | 1 | 1.8 | 45.72 | R | 2.56 | 65.02 | Landoll/Sunflower |
| P22256134R | 22 | 559 | 0.256 | 6.5 | 1 | 1.8 | 45.72 | R | 2.47 | 62.74 | Landoll/Sunflower |
| P24177134R | 24 | 610 | 0.177 | 4.5 | 1 | 1.8 | 45.72 | R | 2.81 | 71.37 | Landoll/Sunflower |
| P24197134R | 24 | 610 | 0.197 | 5 | 1 | 1.8 | 45.72 | R | 2.78 | 70.61 | Landoll/Sunflower |
| P24256134R | 24 | 610 | 0.256 | 6.5 | 1 | 1.8 | 45.72 | R | 3 | 76.2 | Landoll/Sunflower |
| P24256134RS | 24 | 610 | 0.256 | 6.5 | 1 | 1.8 | 45.72 | RS | 2.19 | 55.63 | Landoll/Sunflower |
| PF20177118C | 20 | 508 | 0.177 | 4.5 | 1 | 1.17 | 29.77 | C | 2 | 50.8 | CNH/IHC/NH |
| PF20177SR3 | 20 | 508 | 0.177 | 4.5 | 1 | 1.23 x 1.36 | 32.24 x 34.42 | sr3 | 1.93 | 49.02 | CNH/IHC/NH |
| PF22177118C | 22 | 559 | 0.177 | 4.5 | 1 | 1.17 | 29.77 | C | 2.5 | 63.5 | CNH/IHC/NH |
| PF22197SR3 | 22 | 559 | 0.197 | 5 | 1 | 1.23 x 1.36 | 32.24 x 34.42 | sr3 | 2.43 | 61.72 | CNH/IHC/NH |
| PF22197SR4 | 22 | 559 | 0.197 | 5 | 1 | 1.34 x 1.59 | 34.04 x 40.39 | sr4 | 2.48 | 62.99 | CNH/IHC/NH |
| PF22197118C | 22 | 559 | 0.197 | 5 | 1 | 1.17 | 29.77 | C | 2.46 | 62.48 | CNH/IHC/NH |
| PF22256SR4 | 22 | 559 | 0.256 | 6.5 | 1 | 1.34 x 1.59 | 34.04 x 40.39 | sr4 | 2.47 | 62.74 | CNH/IHC/NH |

Abbreviations: C-Cloverleaf SR3-1 1/8-in sq. x 1 1/4-in. rd. SR4-1 1/4-in. sq. x 1 1/2-in. rd.



Vertical and High Speed Tillage Disk Blades

| Part Number | Diameter | | Thickness | | Blade Edge | Center Hole | | Center Hole Shape | Concavity | |
|--|----------|-----|-----------|-----|-------------|----------------|------|-------------------|-----------|-------|
| | inch | mm | inch | mm | | inch | mm | | inch | mm |
| 2623VT, 2633VT | | | | | | | | | | |
| N242916 | 22 | 559 | 0.197 | 5 | 10 | 2 | 50.8 | R | 2.07 | 52.6 |
| N403847 | 22 | 559 | 0.197 | 5 | 1 | 2 | 50.8 | R | 2.07 | 52.6 |
| 2660VT - Commander Blades, crimped center and special edge | | | | | | | | | | |
| KK48473 | 22 | 565 | .256 | 6.5 | Notched, 11 | 2.07 | 52.5 | rd | 1.22 | 31 |
| KK50221 | 20 | 508 | .256 | 6.5 | Notched, 11 | 2.07 | 52.5 | rd | 1.22 | 31 |
| 2680H High Speed Disk | | | | | | | | | | |
| 5NS90340002 | 20 | 508 | .26 | 6.6 | Notched | N/A - 4 Bolts* | | N/A | 2.1 | 53.34 |
| 5NS90340003 | 20 | 508 | .26 | 6.6 | Plain | N/A - 4 Bolts* | | N/A | 2.1 | 53.35 |
| 5NS90340007 | 18 | 457 | .26 | 6.6 | Plain | N/A - 4 Bolts* | | N/A | | |

Rollable-Edge Disk Blades



| Part Number | Diameter | | Thickness | | Blade Edge | Disk Edge | Center Hole | | Center Hole Shape | Concavity | |
|--------------------------------|----------|-----|-----------|-----|------------|-----------|-------------|---------------|-------------------|-----------|-------|
| | inch | mm | inch | mm | | | inch | mm | | inch | mm |
| John Deere Applications | | | | | | | | | | | |
| N404744 | 20 | 508 | 0.197 | 5 | Plain | 1 | 2 | 50.8 | S | 1.65 | 41.91 |
| PS222561814D | 22 | 559 | 0.256 | 6.5 | Plain | special | 1.17 x 1.30 | 29.77 x 32.94 | C | 2.25 | 57.15 |
| N402348 | 22 | 559 | 0.256 | 6.5 | Plain | 1 | 2 | 50.8 | R | 2.25 | 57.2 |
| N404600 | 22 | 559 | 0.197 | 5 | Plain | 1 | 2 | 50.8 | S | 2.07 | 52.58 |
| PS242561814D | 24 | 610 | 0.256 | 6.5 | Plain | special | 1.17 x 1.30 | 29.77 x 32.94 | C | 2.3 | 58.42 |
| N402349 | 24 | 610 | 0.256 | 6.5 | Plain | 1 | 2 | 50.8 | R | 2.29 | 58.4 |
| N404601 | 24 | 610 | 0.197 | 5 | Plain | 1 | 2 | 50.8 | S | 2.3 | 58.42 |
| Krause Applications | | | | | | | | | | | |
| PS22256112R | 22 | 559 | 0.256 | 6.5 | Plain | special | 1.55 | 39.29 | R | 2.25 | 57.15 |
| PS24256112R | 24 | 610 | 0.256 | 6.5 | Plain | special | 1.55 | 39.29 | R | 2.3 | 58.42 |
| Landoll/Sunflower Applications | | | | | | | | | | | |
| PS22256134R | 22 | 559 | 0.256 | 6.5 | Plain | special | 1.8 | 45.72 | R | 2.25 | 57.15 |
| PS24256134R | 24 | 610 | 0.256 | 6.5 | Plain | special | 1.8 | 45.72 | R | 2.3 | 58.42 |

Disk Blades — Cutout Edge



| Part Number | Diameter | | Thickness | | Edge Type | Blade Edge | Center Hole | | Center Hole Shape | Concavity | |
|-------------|----------|-----|-----------|-----|------------|------------|-------------|---------------|-------------------|-----------|--------|
| | inch | mm | inch | mm | | | inch | mm | | inch | mm |
| A39177 | 18 | 457 | 0.118 | 3 | Cutout, 9 | 1 | 1.06 | 26.92 | R | 1.75 | 44.45 |
| B31342 | 18 | 457 | 0.138 | 3.5 | Cutout, 9 | 1 | 1.17 x 1.30 | 29.77 x 32.94 | C | 1.75 | 44.45 |
| A39548 | 18 | 457 | 0.177 | 4.5 | Cutout, 3 | | 1.17 | 29.72 | S | 1.67 | 42.42 |
| A39178 | 20 | 508 | 0.157 | 4 | Cutout, 10 | 1 | 1.06 | 26.92 | R | 2 | 50.8 |
| B31319 | 20 | 508 | 0.177 | 4.5 | Cutout, 10 | 1 | 1.17 x 1.30 | 29.77 x 32.94 | C | 2.03 | 51.56 |
| B32710 | 20 | 508 | 0.177 | 4.5 | Cutout, 6 | 1 | 1.17 x 1.30 | 29.77 x 32.94 | C | 3.27 | 83.06 |
| A47238 | 20 | 508 | 0.256 | 6.5 | Cutout, 10 | 1 | 1.17 x 1.30 | 29.77 x 32.94 | C | 2 | 50.8 |
| B31323 | 22 | 559 | 0.177 | 4.5 | Cutout, 10 | 1 | 1.17 x 1.30 | 29.77 x 32.94 | C | 2.5 | 63.5 |
| B32712 | 22 | 559 | 0.177 | 4.5 | Cutout | 10 | 1.17 x 1.30 | 29.77 x 32.94 | C | 3.74 | 94.99 |
| Q31446 | 22 | 559 | 0.177 | 4.5 | Cutout, 10 | 1 | 1.58 | 40.08 | R | 2.5 | 63.5 |
| A36292 | 22 | 559 | 0.256 | 6.5 | Cutout, 10 | 1 | 1.17 x 1.30 | 29.72 x 33.02 | C | 2.5 | 63.5 |
| A36293 | 22 | 559 | 0.256 | 6.5 | Cutout, 7 | 10 | 1.17 x 1.30 | 29.72 x 33.02 | C | 3.62 | 91.95 |
| N242918 | 22 | 559 | 0.256 | 6.5 | Cutout, 10 | 1 | 2 | 50.8 | R | 2.57 | 65.5 |
| B28061 | 24 | 610 | 0.256 | 6.5 | Cutout, 8 | 10 | 1.55 | 39.29 | S | 4.18 | 106.17 |
| B32716 | 24 | 610 | 0.256 | 6.5 | Cutout, 8 | 10 | 1.30 | 32.94 | S | 3.87 | 98.3 |
| N242047 | 24 | 610 | 0.256 | 6.5 | Cutout, 10 | 10 | 1.17 x 1.30 | 29.77 x 32.94 | C | 2.3 | 58.42 |
| B35607 | 24 | 610 | 0.256 | 6.5 | Cutout, 10 | 10 | 1.30 | 32.94 | S | 2.84 | 72.14 |
| N242922 | 24 | 610 | 0.256 | 6.5 | Cutout, 10 | 10 | 2 | 50.8 | R | 2.83 | 72.1 |
| N242997 | 24 | 610 | 0.256 | 6.5 | Cutout, 10 | 10 | 2 | 50.8 | R | 2.42 | 61.7 |
| B29354 | 26 | 660 | 0.256 | 6.5 | Cutout, 9 | 10 | 1.55 | 39.29 | S | 4.69 | 119.13 |
| B32092 | 26 | 660 | 0.256 | 6.5 | Cutout, 10 | 1 | 1.55 | 39.29 | S | 3.75 | 95.25 |
| A34797 | 26 | 660 | 0.256 | 6.5 | Cutout, 10 | 10 | 1.3 | 33.02 | S | 4 | 101.6 |
| B32718 | 26 | 660 | 0.256 | 6.5 | Cutout, 9 | 10 | 1.3 | 33.02 | S | 4.35 | 110.49 |
| N242344 | 26 | 660 | 0.256 | 6.5 | Cutout, 10 | 10 | 1.3 | 33.02 | S | 3.45 | 87.63 |
| B32720 | 26 | 660 | 0.315 | 8 | Cutout, 9 | 10 | 1.55 x 1.67 | 32.29 x 42.49 | C | 4.51 | 114.55 |
| N242924 | 26 | 660 | 0.256 | 6.5 | Cutout, 10 | 10 | 2 | 50.8 | R | 3.29 | 83.8 |

Abbreviations: D - Dual Square RS - Round Square R - Round S - Square

Coulter Blades

Customize your equipment to match any trash-cutting or row-tillage requirements. Special micro-alloy material and advanced manufacturing technology make these blades tougher than anything in the field. Each blade is made to the same stringent John Deere specifications. The end result is a blade that maintains its diameter and edge longer, resulting in extended life and performance.



BUBBLE

- Aggressively tills as the point bubbles enter the soil.
- Cuts through tough residue.
- Works well in wet conditions.



8 WAVE

- Performs well at high planting speeds.
- Less soil disruption, but gives a versatile seedbed for good seed-to-soil contact.



13 FLUTE

- Designed for slower planting speeds.
- Aggressively tills a wider area for a good seedbed.



25 WAVE

- Slower-speed blade for a fine-tilled seedbed.
- Works well in wet conditions.

Tillage Coulter Blades

| Part Number | Description | Blade Type | Diameter | | Thickness | | Bolts |
|-------------|----------------------------|------------|----------|-----|-----------|-----|-------|
| | | | inch | mm | inch | mm | |
| N283805 | Blade, Double-Disk Opener | Flat | 13.5 | 343 | 0.098 | 2.5 | 1 |
| 33124 | Blade, Coulter, Flat | Flat | 15 | 381 | 0.138 | 3.5 | 5 |
| A17093 | Blade, Coulter, 50 Ripples | Ripple | 17 | 432 | 0.138 | 3.5 | 6 |
| 33131 | Blade, Coulter, Flat | Flat | 17 | 432 | 0.157 | 4.0 | 6 |
| N130051 | Blade, Coulter, Flat | Flat | 18 | 456 | 0.177 | 4.5 | 4 |
| A17842 | Blade, Coulter, 54 Ripples | Ripple | 18 | 457 | 0.157 | 4.0 | 6 |
| A33005 | Blade, Coulter, 54 Ripples | Ripple | 18 | 457 | 0.157 | 4.0 | 5 |
| N283804 | Blade, Single-Disk Opener | Flat | 18 | 459 | 0.197 | 5.0 | 4 |
| A17094 | Blade, Coulter, 60 Ripples | Ripple | 20 | 508 | 0.177 | 4.5 | 6 |
| A33066 | Blade, Coulter, 60 Ripples | Ripple | 20 | 508 | 0.177 | 4.5 | 5 |
| A36114 | Blade, Coulter, Flat | Flat | 20 | 508 | 0.177 | 4.5 | 5 |
| N233826 | Blade, Coulter, 60 Ripples | Ripple | 20 | 514 | 0.177 | 4.5 | 4 |
| PM33502042 | Blade, Coulter, Flat | Flat | 20 | 518 | 0.177 | 4.5 | 4 |
| N216270 | Blade, Coulter, Flat | Flat | 20 | 518 | 0.177 | 4.5 | 4 |
| N187522 | Blade, Coulter, Flat | Flat | 20 | 518 | 0.197 | 5.0 | 1 |
| F20256134R | Blade, Coulter, Flat | Flat | 20 | 518 | 0.256 | 6.5 | 1 |
| A34776 | Blade, Coulter, 60 Ripples | Ripple | 22 | 559 | 0.177 | 4.5 | 5 |
| N262329 | Blade, Coulter, Flat | Flat | 22 | 559 | 0.177 | 4.5 | 4 |
| N183542 | Blade, Coulter, Flat | Flat | 22 | 564 | 0.177 | 4.5 | 1 |
| PM33502240 | Blade, Coulter, Flat | Flat | 22 | 577 | 0.177 | 4.5 | 4 |
| PM33502442 | Blade, Coulter, Flat | Flat | 25 | 632 | 0.197 | 5.0 | 4 |

Combination Scrapers



- Self-adjusting for sticky soil.
- Can be locked tight for light, sandy, or dry soil to prevent wear on the blade.
- Positioned to direct soil back, rather than up on gangs.
- High-strength steel.
- Heat-treated.

Rigid Scrapers



- Clean blades in most conditions.
- Easy to adjust for long life and good performance.
- Mounting bar positioned to allow good residue flow.
- Heat-treated.

Heavy-Duty Disk Spools



- Designed to handle the constant hammering to the gang and to prevent the gang bolt from flexing when an obstacle is struck.
- The larger surface diameter also provides extra blade support to help reduce blade breakage.

Heavy-Duty Reinforced Sleeve



- The John Deere disk uses a heavy-duty sleeve in the gang assembly.
- The sleeves are made out of high-carbon seamless tubing with thicker walls for longer wear life and strength. It is placed between spools carrying the bearing.
- The sleeve reinforces the spool and axle, and distributes the bearing load as the sleeve fits into the end of the spool.

The John Deere reinforced sleeves offer:

Features

- Thick wall.
- Drawn I.D. and O.D.
- Accurate flow.
- High-carbon steel.

Benefits

- Withstand operating stress in the standard area.
- Fits tightly to I.D. control dimensions of bearing.
- Consistent strength throughout.
- Long wear life.

Gang Bolts for John Deere Disks



John Deere gang bolts contain high-carbon steel while some of our competitors use medium-carbon steel. This means the John Deere gang bolt is less likely to bend or box, which would impact the performance of the total gang assembly.

*Gang-bolt lengths are measured from below the head of the bolt.

| Square Body | Round Head | Square Body | Round Head |
|-------------|------------------------------|-------------|---------------------------|
| Part number | *Nuts and washers dimensions | Part number | *Dimension |
| A15143 | 1 1/8-in. sq. x 10.12-in. | B34225 | 1 1/4-in. sq. x 65.80 in. |
| A20132 | 1 1/8-in. sq. x 38.12 in. | B34219 | 1 1/4-in. sq. x 68.74 in. |
| A20133 | 1 1/8-in. sq. x 50.70 in. | B34226 | 1 1/4-in. sq. x 74.89 in. |
| A20134 | 1 1/8-in. sq. x 59.70 | B13681 | 1 1/4-in. sq. x 78.38 in. |
| A20615 | 1 1/8-in. sq. x 65.00 in. | B34220 | 1 1/4-in. sq. x 79.35 in. |
| N241664 | 1 1/8-in. sq. x 67.25 in. | B34227 | 1 1/4-in. sq. x 84.00 in. |
| N241665 | 1 1/8-in. sq. x 74.50 in. | B34221 | 1 1/4-in. sq. x 90.36 in. |
| N241666 | 1 1/8-in. sq. x 81.75 in. | | |
| A20617 | 1 1/8-in. sq. x 83.00 in. | | |
| A40826 | 1 1/8-in. sq. x 92.19 in. | | |
| A40827 | 1 1/8-in. sq. x 101.19 in. | | |

| Square Body | Square Head | Square Body | Square Head | Square Body | Square Head |
|-------------|---------------------------|-------------|----------------------------|-------------|----------------------------|
| Part number | * Dimension | Part number | * Dimension | Part number | * Dimension |
| 30750 | 1-in. sq. x 22.50 in. | N184523 | 1 1/8-in. sq. x 62.50 in. | B34224 | 1 1/4-in. sq. x 56.70 in. |
| N189983 | 1-in. sq. x 74.90 in. | N281323 | 1 1/8-in. sq. x 62.75 in. | B13159 | 1 1/4-in. sq. x 62.00 in. |
| N261792 | 1 1/8-in. sq. x 6.12 in. | A20615 | 1 1/8-in. sq. x 65.00 in. | B34225 | 1 1/4-in. sq. x 65.80 in. |
| N241638 | 1 1/8-in. sq. x 7.00 in. | N240687 | 1 1/8-in. sq. x 67.10 in. | B34219 | 1 1/4-in. sq. x 68.36 in. |
| A15143 | 1 1/8-in. sq. x 10.12 in. | N241664 | 1 1/8-in. sq. x 67.38 in. | B13161 | 1 1/4-in. sq. x 69.80 in. |
| N260928 | 1 1/8-in. sq. x 10.40 in. | B12172 | 1 1/8-in. sq. x 69.75 in. | N262064 | 1 1/4-in. sq. x 70.24 in. |
| Q437K | 1 1/8-in. sq. x 20.19 in. | A20616 | 1 1/8-in. sq. x 74.00 in. | B34226 | 1 1/4-in. sq. x 74.90 in. |
| A20131 | 1 1/8-in. sq. x 29.00 in. | P70772 | 1 1/8-in. sq. x 74.33 in. | B13681 | 1 1/4-in. sq. x 78.38 in. |
| A20132 | 1 1/8-in. sq. x 38.12 in. | N240688 | 1 1/8-in. sq. x 74.35 in. | B34220 | 1 1/4-in. sq. x 79.36 in. |
| N241660 | 1 1/8-in. sq. x 38.23 in. | N241665 | 1 1/8-in. sq. x 74.73 in. | B34227 | 1 1/4-in. sq. x 84.00 in. |
| P55127 | 1 1/8-in. sq. x 38.27 in. | B12173 | 1 1/8-in. sq. x 78.06 in. | B34221 | 1 1/4-in. sq. x 90.36 in. |
| N281316 | 1 1/8-in. sq. x 38.75 in. | N240689 | 1 1/8-in. sq. x 81.60 in. | A26367 | 1 1/4-in. sq. x 93.10 in. |
| B10482 | 1 1/8-in. sq. x 44.38 in. | N241666 | 1 1/8-in. sq. x 82.03 in. | A26368 | 1 1/4-in. sq. x 101.36 in. |
| N240684 | 1 1/8-in. sq. x 45.35 in. | A20617 | 1 1/8-in. sq. x 83.00 in. | A33123 | 1 1/4-in. sq. x 102.48 in. |
| N241661 | 1 1/8-in. sq. x 45.48 in. | AP40416 | 1 1/8-in. sq. x 83.86 in. | N262065 | 1 1/4-in. sq. x 103.24 in. |
| N281317 | 1 1/8-in. sq. x 45.48 in. | N240690 | 1 1/8-in. sq. x 88.85 in. | A37822 | 1 1/4-in. sq. x 112.36 in. |
| A20133 | 1 1/8-in. sq. x 47.00 in. | N241667 | 1 1/8-in. sq. x 89.38 in. | N241153 | 1 1/4-in. sq. x 123.36 in. |
| P55862 | 1 1/8-in. sq. x 47.40 in. | A40826 | 1 1/8-in. sq. x 92.19 in. | B32003 | 1 1/2-in. sq. x 56.90 in. |
| N281320 | 1 1/8-in. sq. x 50.75 in. | N241668 | 1 1/8-in. sq. x 96.68 in. | B15415 | 1 1/2-in. sq. x 57.38 in. |
| N240685 | 1 1/8-in. sq. x 52.60 in. | A40827 | 1 1/8-in. sq. x 101.19 in. | B34218 | 1 1/2-in. sq. x 57.38 in. |
| N241662 | 1 1/8-in. sq. x 52.73 in. | P58273 | 1 1/8-in. sq. x 102.93 in. | B32002 | 1 1/2-in. sq. x 67.90 in. |
| B12170 | 1 1/8-in. sq. x 52.75 in. | A16841 | 1 1/8-in. sq. x 187.75 in. | B32001 | 1 1/2-in. sq. x 90.40 in. |
| N281322 | 1 1/8-in. sq. x 55.25 in. | B34222 | 1 1/4-in. sq. x 38.50 in. | N402318 | 2-in. sq. x 48.27 in. |
| A20134 | 1 1/8-in. sq. x 56.00 in. | B34217 | 1 1/4-in. sq. x 46.30 in. | N242978 | 2-in. sq. x 49.45 in. |
| N240686 | 1 1/8-in. sq. x 59.85 in. | P58274 | 1 1/4-in. sq. x 46.94 in. | | |
| | | B34223 | 1 1/4-in. sq. x 47.60 in. | | |

Gang Bolts for John Deere Disks (continued)

*Gang-bolt lengths are measured from below the head of the bolt.

| Square Body | | Square Head | | Square Body | | Hex Head | |
|-------------|-----------------------|-------------|------------------------|-------------|----------------------------|-------------|-----------------------|
| Part number | *Dimensions | Part number | *Dimensions | Part number | *Dimension | Part number | *Dimension |
| KK15212 | 2-in. sq. x 55.28 in. | N243008 | 2-in. sq. x 84.68 in. | B11044 | 1 1/8-in. sq. x 125.13 in. | A41971 | 1-in. sq. x 31.57 in. |
| N242979 | 2-in. sq. x 58.43 in. | N242982 | 2-in. sq. x 85.47 in. | B11045 | 1 1/8-in. sq. x 148.37 in. | A41969 | 1-in. sq. x 38.70 in. |
| N401856 | 2-in. sq. x 59.29 in. | N243155 | 2-in. sq. x 91.65 in. | A16841 | 1 1/8-in. sq. x 187.75 in. | A41970 | 1-in. sq. x 47.48 in. |
| KK15211 | 2-in. sq. x 62.56 in. | N402168 | 2-in. sq. x 92.44 in. | AP29932 | 1 1/2-in. sq. x 50.00 in. | A45919 | 1-in. sq. x 56.50 in. |
| N242980 | 2-in. sq. x 67.44 in. | N242917 | 2-in. sq. x 93.82 in. | AP29702 | 1 1/2-in. sq. x 59.13 in. | N240397 | 1-in. sq. x 65.50 in. |
| N242990 | 2-in. sq. x 69.84 in. | N242983 | 2-in. sq. x 94.49 in. | AP29703 | 1 1/2-in. sq. x 105.28 in. | | |
| N242991 | 2-in. sq. x 70.31 in. | N243006 | 2-in. sq. x 98.94 in. | | | | |
| N242976 | 2-in. sq. x 75.91 in. | N242972 | 2-in. sq. x 102.79 in. | | | | |
| N242981 | 2-in. sq. x 76.46 in. | N242984 | 2-in. sq. x 103.50 in. | | | | |
| N243005 | 2-in. sq. x 77.13 in. | N243152 | 2-in. sq. x 114.33 in. | | | | |
| N243007 | 2-in. sq. x 81.26 in. | N400393 | 2-in. sq. x 125.35 in. | | | | |

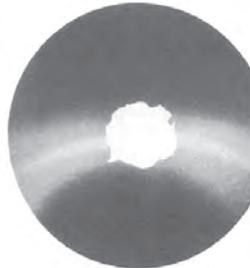
Our Adjustment Policy on Disk Blade Failure

Our adjustment policy is designed to be fair to both the user and the manufacturer. In these drawings of impaired disks, we have indicated typical disk failures and the most common reasons for these failures. John Deere disk blades with warrantable breaks as shown have worn less than 10 percent of the original diameter (center breakage excluded) up to one year from date of purchase.

Example of Disk Blade Field Failure



Straight directional break due to defective material. Full credit is granted at original purchase price.



Breakout of center of disk. Generally caused by tilling over rocks or stumps, loose gang bolts, and excessive disk flexing. Credit is not offered.



Disk fracture resulting from contact with rocks, stumps, or other solid objects. Credit is not offered.



Disk fracture resulting from contact with rocks, stumps, or other solid objects. Credit is not offered.



Disk fracture resulting from contact with rocks, stumps, or other solid objects. Credit is not offered.



Chipped and dented edges resulting from contact with rocks, stumps, or other solid objects. Credit is not offered.

John Deere Dura-Flex™ Bearings



Gang Bearings

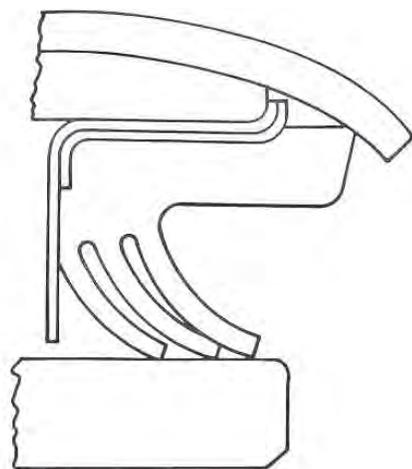
Dura-Flex gang bearings with 3 + 1 seals are one of the finest examples of John Deere engineering. This exclusive patented design has greatly increased bearing life when used with either flange or cast housing.

The 3 + 1 seal design posed a unique challenge in the seal material itself. The three long flexible seals require contradicting qualities — toughness for long wear, yet resiliency for constant spring-like action to seal against the inner race. The three lips shield the bearings, thereby keeping dirt out while allowing old grease to be purged from the heart of the bearing by fresh grease. Bearing failure is caused by contamination and/or misalignment. With three seals to protect the bearing against contamination, the engineers set out to design a true self-aligning bearing. The housing extends beyond the outer race of the bearing, contacting the fourth or outer seal when the two housing halves are clinched together. This fourth seal serves three functions:



Bearing with Flange Housing

- 1) Frees the outer race to realign inside the housing.
- 2) Prevents the bearing from turning inside the housing.
- 3) Provides a positive seal to keep dirt from getting in between the outer race and bearing.



3 + 1 Seal

Housings

For repair, John Deere offers two types of housings: cast or flange. Both offer the same protection, allowing the bearing to realign.

The flange housing is designed for most conditions. The flange housing with bearing wear guards can also preserve bearing life and provides an economical alternative if some protection is desired.

The cast housing is designed to preserve bearing life in very abrasive soils and is used with a heavier standard and a large-diameter spool for better blade backup.

The cast or extended flange housing also adds protection against wrapping of twine, wire, or grass.

| Part number | Inside Dimensions | | Outside Dimensions | | Outer Race Width in. | Outer Race Width mm |
|-------------|---|-------|--------------------|----|----------------------|---------------------|
| | inch | mm | inch | mm | | |
| AA28184 | 1.777 | 45.16 | 3.346 | 85 | 1.187 | 30.163 |
| AA30941 | Dura-Flex Bearing Kit - Includes: AA28184 bearing, flanges, gasket, bolts, nuts | | | | | |

John Deere Limited or Maintenance Free Bearings

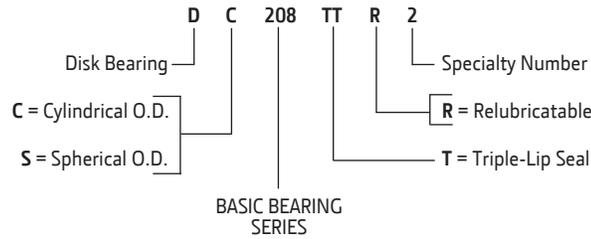


Maintenance free bearings are features of the new John Deere 2600 Series Disks. A high-density polymer liner allows the bearing to dynamically align the shaft in rough field conditions.

These new bearings increase productivity by reducing the amount of time needed to service the disk before operation and allow the customer to spend more time in the field.

| Part number | Inside Dimensions | | Outside Dimensions | | Outer Race Width inch | Outer Race Width mm |
|-------------|-------------------|-------|--------------------|-----|-----------------------|---------------------|
| | inch | mm | inch | mm | | |
| AKK16196 | 2.194 | 55.75 | 3.937 | 100 | 1.562 | 39.688 |
| AKK22197 | 2.194 | 55.75 | 3.937 | 100 | 1.31 | 33.34 |

Disk-Bearing Identification Code



John Deere Dura-Flex™ Bearings



All-Makes Bearings

Disk bearings

Choosing The Right Bearing

Load, speed, shaft diameter, and projected fatigue life are important considerations affecting the selection of a suitable disk-blade bearing. Bearing type and bearing fatigue life can be substantially influenced by environmental conditions such as operating speed, alignment, lubrication type, and contamination.

When selecting a John Deere or All-Makes bearing for a disk-blade application, you can be sure that the life-load relationship has been met in regard to:

- 1) Fatigue life — hours that a bearing will attain or exceed.
- 2) Radial load — the load applied to a bearing with a rotating inner ring and stationary outer ring that would be attained under the actual conditions of a load and rotation.
- 3) Speed in rpm — rotation.

John Deere bearings, regardless of supplier, are manufactured and tested to rigid quality standards to ensure they stand up to tough use:

- 1) Laboratory Tests — under accelerated conditions, various bearing types and sources are tested to ensure the correct bearing is selected.
- 2) Field Tests — in actual working conditions.

By using John Deere replacement bearings, the customer can be assured of getting a bearing with the correct sealing, lubrication, internal tolerance finish, load, and speed characteristics. This means longer bearing life and reduced downtime.

Feature/Benefit Summary

Designed and manufactured to John Deere tolerance requirements:

- Ensures long bearing life.
- Reduces costly machine downtime.

Application tested:

- Ensures correct bearing for specific application.

Disk Bearings — Cross-Reference Specifications

Square Bore Size

| Part Number | Supplier | Inside Dimension (in.) | Inside Dimension (mm) | Outside Dimension (in.) | Outside Dimension (mm) | Outer Race Width (in.) | Outer Race Width (mm) |
|-------------|---------------|------------------------|-----------------------|-------------------------|------------------------|------------------------|-----------------------|
| PMDC208TT8 | W208PP8 | 1.125 | 28.5750 | 3.150 | 80.00000 | 1.188 | 30.16250 |
| PMDC208T- | GW208PP17 | 1.125 | 28.5750 | 3.376 | 85.73770 | 1.188 | 30.17520 |
| PMDC209TTR8 | GW209PPB8 | 1.250 | 31.7500 | 3.347 | 85.00110 | 0.886 | 22.50694 |
| PMDC210TT4 | W210PP4 | 1.125 | 28.5750 | 3.543 | 89.99982 | 1.188 | 30.16250 |
| PMDC211TT3 | W211PP3 | 1.500 | 38.1000 | 3.937 | 100.00000 | 1.313 | 33.33750 |
| PMDC211TT5 | W211PP5 | 1.500 | 38.1000 | 4.000 | 101.60000 | 1.438 | 36.52520 |
| PMDC211TTR3 | GW211PP3 | 1.500 | 38.1000 | 3.937 | 100.00000 | 1.313 | 33.33750 |
| PMDC211TTR4 | DC211TTR4 | 1.500 | 38.1000 | 3.937 | 100.00000 | 1.313 | 33.33750 |
| PMDC214TTR3 | GW214PP3 | 2.688 | 68.2625 | 4.921 | 125.00102 | 1.563 | 39.68750 |
| PMDS208TT12 | DS208TT12 | 1.125 | 28.5750 | 3.443 | 87.45220 | 1.188 | 30.16250 |
| PMDS208TT6 | W208PPB6 | 1.000 | 25.4000 | 3.150 | 80.00000 | 0.709 | 18.00098 |
| PMDS208TT8 | DS208TT8 | 1.125 | 28.5750 | 3.150 | 79.99984 | 1.188 | 30.16250 |
| PMDS208TTR8 | DS208TTR8 | 1.125 | 28.5750 | 3.150 | 79.99984 | 1.188 | 30.16250 |
| PMDS209TT5 | W209PPB5 | 1.250 | 31.7500 | 3.347 | 85.00110 | 1.188 | 30.16250 |
| PMDS209TTR5 | GW209PPB5 | 1.250 | 31.7500 | 3.347 | 85.00110 | 1.188 | 30.16250 |
| PMDS210TTR4 | GW210PPB4 | 1.125 | 28.5750 | 3.543 | 89.99982 | 1.188 | 30.16250 |
| PMDS211TT3 | W211PPB3 | 1.500 | 38.1000 | 3.937 | 99.99980 | 1.313 | 33.33750 |
| PMDS211TT6 | W211PPB6 | 1.500 | 38.1000 | 4.130 | 104.90200 | 1.438 | 36.51250 |
| PMDS211TTR3 | GW211PPB3 | 1.500 | 38.1000 | 3.937 | 99.99980 | 1.313 | 33.33750 |
| PMFD209RK | FD209 – 1¼ SQ | 1.250 | 31.7500 | 5.000 | 127.00000 | 1.687 | 42.84980 |
| PMFD209RM | FD209 – 1⅛ SQ | 1.125 | 28.5750 | 5.000 | 127.00000 | 1.687 | 42.84980 |
| PMFD211RM | FD211 – 1½ SQ | 1.500 | 38.1000 | 5.500 | 139.70000 | 2.000 | 50.80000 |

Round Bore Size

| Part Number | Supplier | Inside Dimension (in.) | Inside Dimension (mm) | Outside Dimension (in.) | Outside Dimension (mm) | Outer Race Width (in.) | Outer Race Width (mm) |
|--------------|---------------|------------------------|-----------------------|-------------------------|------------------------|------------------------|-----------------------|
| PMDC208TT10 | W208PP10 | 1.500 | 38.10000 | 3.150 | 79.99984 | 0.827 | 21.00072 |
| PMDC211T- | GW211PP25 | 1.775 | 45.08500 | 3.937 | 99.99980 | 1.313 | 33.33750 |
| PMDS208TT7 | W208PPB7 | 1.188 | 30.16250 | 3.150 | 79.99984 | 0.709 | 18.00098 |
| PMDS209TT2 | W209PPB2 | 1.771 | 44.98848 | 3.347 | 85.00110 | 1.188 | 30.16250 |
| PMDS209TT4 | W209PPB4 | 1.525 | 38.73500 | 3.347 | 85.00110 | 1.188 | 30.16250 |
| PMDS209TT6 | DS209TT6 | 1.525 | 38.73500 | 3.443 | 87.45220 | 1.188 | 30.16250 |
| PMDS209TTR2 | GW209PPB2 | 1.771 | 44.98848 | 3.347 | 85.00110 | 1.188 | 30.16250 |
| PMDS210TT2 | W210PPB2 | 1.938 | 49.21250 | 3.543 | 89.99982 | 1.188 | 30.16250 |
| PMDS210TT5 | W210PPB5 | 1.775 | 45.08500 | 3.543 | 89.99982 | 1.188 | 30.16250 |
| PMDS210TTR2 | GW210PPB2 | 1.938 | 49.21250 | 3.543 | 89.99982 | 1.188 | 30.16250 |
| PMDS210T- | GW210PPB5 | 1.775 | 45.08500 | 3.543 | 89.99982 | 1.188 | 30.16250 |
| PMDS211TT2 | W211PPB2 | 2.188 | 55.57520 | 3.937 | 99.99980 | 1.313 | 33.33750 |
| PMDS211TT4 | W211PPB4 | 2.187 | 55.55996 | 3.937 | 99.99980 | 1.312 | 33.32480 |
| PMDS211TTR14 | GW211PPB14 | 2.005 | 50.92700 | 3.937 | 99.99980 | 0.984 | 25.00122 |
| PMDS211TTR2 | GW211PPB2 | 2.187 | 55.55996 | 3.937 | 99.99980 | 1.313 | 33.33750 |
| PMDS211TTR23 | DS211TTR23 | 1.775 | 45.08500 | 3.980 | 101.09200 | 1.335 | 33.90900 |
| PMFD209RA | ST491A | 1.750 | 44.45000 | 5.000 | 127.00000 | 1.687 | 42.84980 |
| PMFD209RB | ST491B | 1.500 | 38.10000 | 5.000 | 127.00000 | 1.687 | 42.84980 |
| PMFD211RE | FD211-1-3/4RD | 1.750 | 44.45000 | 5.500 | 139.70000 | 2.187 | 55.54980 |

Abbreviations: SQ – Square
RD – Round

