Tillage Parts Guide





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TILLAGE METHODS

Tillage tool requirements are based on the tillage method being used — primary, secondary, seeding, or crop care.

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: 2410, 240 and 610 Disk: 2625 Moldboard Plow: 3710, 975, and 995 Mulch Tiller: 714 Rippers: 512, 2100, 2700, 2720, 913 and 915

Secondary Tillage



Disks: 425, 637, 650, 670, 2620, and 2623 Field Cultivators: 2210 Mulch Finisher: 2310

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

Nutrient Application



Nutrient application is 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: 2510C, 2510H and 2510S

Seeding 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.

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

Crop-Care Tillage



Crop-care tillage begins when seeds begin to germinate. 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 are used not only to till and shape the soil, but also to fertilize and apply pesticides.

Benefits of tillage

- A **Tillage helps soil dry 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.
- B **Tillage can help 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.
- C **Tillage 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 volatization and runoff of surface-applied commercial nitrogen and manure.
- D **Tillage is the 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.
- E Tillage is the most 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.
- F Tillage can benefit 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.

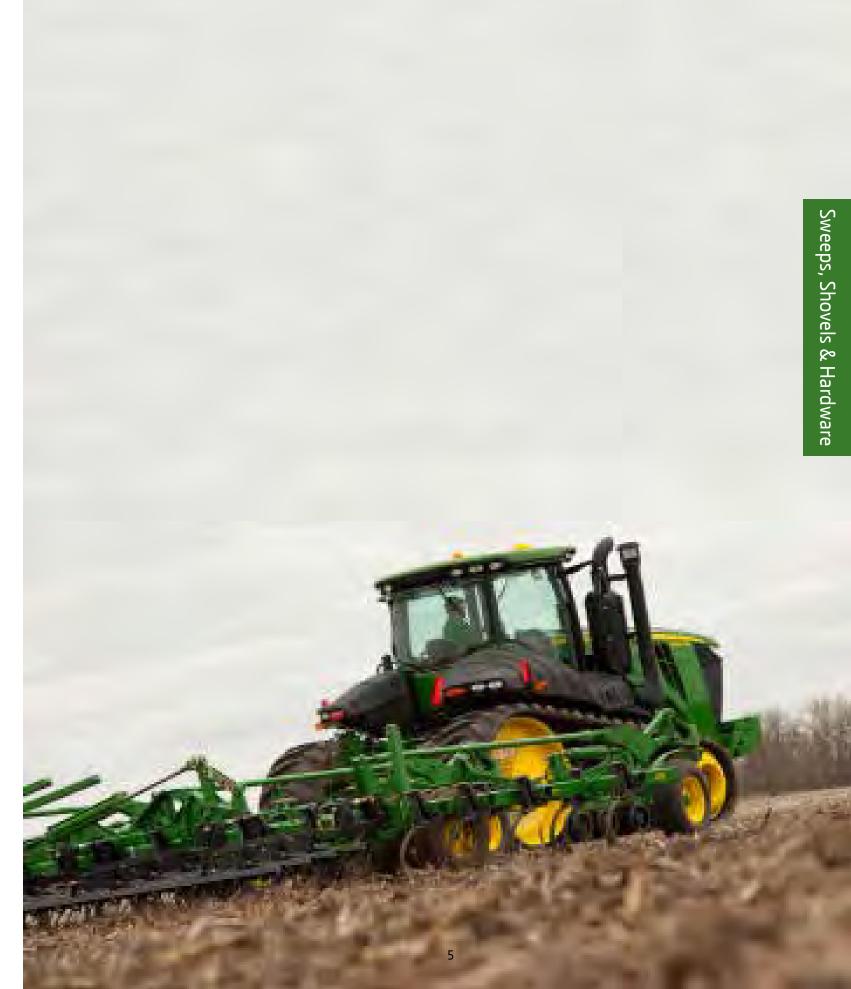
John Deere Soil-Management Solutions

There is no one-size-fits-all weed-control system. Every year is different. Crops, weeds, and weather conditions vary. Your weed-management plan needs the flexibility to handle change — and cost effectively.

Some years you may be able to accomplish your weed-management goal by spraying. Other years, tillage alone may be the best choice. Much of the time, however, combining managed tillage with a site-specific chemical application will give you the most complete and cost-effective weed kill. And it optimizes your seed and chemical investment.

Because conditions are ever changing, you may need to mix and match various ground-engaging tools from year to year on your implement. John Deere offers a full product line of premium-quality tools with a variety of product features to provide flexibility to meet these changing needs.

SWEEPS, SHOVELS & ATTACHING HARDWARE



Product features

product option follow:

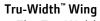
Wing Type Options





shape retention.





Xtra-Life sweeps

For those who demand even more from their tillage tools, John Deere offers Xtra-Life coating, a special alloy coating applied to the high-wear areas of the tillage parts (shank, point, and blade). The coating is then melted in via a high-heat process that allows the coating to blend into the base metal. The end result is tillage parts with extended life and reduced wear on parts that are key to tillage tool performance.

Wear Characteristics and Results (When should a sweep be replaced?)

Tillage tools wear during their performance. Too much wear affects weed-management results. When tools show on the following wear characteristics, the tool should be replaced.

	WEAR CHARACTERISTIC	RESULT
	1. Rounded point.	 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	 Soil-mixing action is reduced and risk of wing breakage occurs.
`2	3. Blunt edge on wing blade.	 Compacts soil at tillage surface and reduces seed germination and water infiltration activity.
	 Shank worn through (caused by shallow tillage where extremely crusty abrasive soils exist). 	• The sweep breaks off the shank and is lost in the field.

Hardware

John Deere specifies certified Grade 5 or Grade 8 hardware for use with our tillage products. These certified products provide:

- 1. High hardness ratings for long wear life and durability.
- 2. High yield-strength ratings for maximum strain resistance.
- 3. High tensile-strength ratings for excellent fracture resistance.

These characteristics are designed to provide long-wearing and reliable hardware performance.

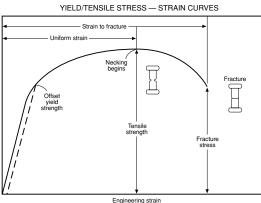
Hardware recommendations are matched to the sweep work requirements to ensure excellent sweep retention and rigidity. To ensure that proper hardware is being used, refer to the following markings to verify hardware grade rating:

Grade 5 markings 52 ft.lbs



74 ft. lbs

Counterfeit hardware is common in the market. Use of inferior hardware can result in frequent hardware adjustments, replacement, and tillage tool-performance problems (related to loose or lost sweeps). To learn more on the torque for John Deere machines, reference DTAC solution:92123.



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High Productivity Wing:

• The High Productivity curved wing design allows for longer wear life and

• Thanks to its low wing profile, it performs at top speeds of 7-10 mph while creating less draft and soil disturbance.

Conventional Wing

· The conventional-wing design provides an excellent option for the lowest cost investment and minimum soil throw.

• The Tru-Width design provides up to 30 percent more wear life compared to the conventional wing design.

- It reduces the potential of field striping throughout the life of the sweep,
- providing more consistent chemical incorporation and weed kill.

FIELD CULTIVATOR SWEEPS

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

Material Thickness

Select the material thickness depending upon tillage and performance requirements.

Sweeps are typically made of 3/16-in.- or 1/4-in. material:

- ³/16-in. material is typically used where sharp edges are required for aggressive slicing and soil penetration (particularly in hard, crusty soils).
- 1/4-in. material is typically used where tough and highly abrasive soils are encountered and longer wear life is desired.

Shovels/chisels vary in thickness — 1/4-in., 5/16-in., 3/8-in., 1/2-in., 5/8-in., 3/4-in., and 7/8-in.



¹/4-in. N33109 ¹/4-in. N33110 ¹∕₄-in. N33110 ¹/4-in. N33110

Part Num



Size	Thickness	Part Number	Angle	Crown	Wing	Hole Spacing	Bolthole Size
7-in.	¹ /4-in.	N238333	47-deg.	Medium	Medium	NA	NA
7-in.	1⁄4-in.	N238333XLT*	47-deg.	Medium	Medium	NA	NA
9-in.	¹ /4-in.	N238334	47-deg.	Medium	Medium	NA	NA
9-in.	¹ /4-in.	N238334XLT*	47-deg.	Medium	Medium	NA	NA
10-in.	¹ /4-in.	N238335	47-deg.	Medium	Medium	NA	NA
10-in.	¹ /4-in.	N238335XLT*	47-deg.	Medium	Medium	NA	NA
12-in.	¹ /4-in.	N238336	47-deg.	Medium	Medium	NA	NA
12-in.	¹ /4-in.	N238336XLT*	47-deg.	Medium	Medium	NA	NA
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*XLT= Xtra-Life coating on wings, points, and stem.

Thickness

1/4-in.

¹/4-in.

¹/4-in.



Perma-Loc Adapters

Part Description	
47-deg., Curved	
47-deg., Flat	

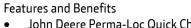
51-deg., Curved Perma-Loc Springs

47-deg. Adapter Locking Spring 51-deg. Adapter Locking Spring

Perma-Loc Removal Tool

Optional Tool Helps Make Perma-Loc Sweep Removal Quick and Easy

Sweeps, Shovels & Hardware



before.

Perma-Loc[™] Part Detail

- ٠ to install sweep.
- Quick and easy removal of the sweep with part number N237623.
- See hardware AN234540 or AN234961 on page 21 ٠

High Productivity Perma-Loc[™] Field Cultivator Sweeps

Thickness



• John Deere Perma-Loc Quick Change system makes changing sweeps and spoons faster than ever

• Specifically designed sweep, spoon, adapter, and spring work together to ensure that the sweep locks on and stays on throughout the tillage operation. Heavy-duty cast adapter with locking spring ensure for a tight fit and easy installation-no tools required

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nber	Angle	Crown	Wing	Hole Spacing	Bolthole Size
99	47-deg.	Low	Medium	NA	NA
00	47-deg.	Low	Medium	NA	NA
01	47-deg.	Low	Medium	NA	NA
02	47-deg.	Low	Medium	NA	NA

Perma-Loc Tru-Width[™] Field Cultivator Sweeps

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Part Num

Field (

Part Number	Angle	Crown	Wing	Hole Spacing	Bolthole Size
N403769	47-deg.	Medium	Medium	NA	NA
N238756	51-deg.	Medium	Medium	NA	NA
N238757	51-deg.	Medium	Medium	NA	NA

Part Number
N237614
N330001
N237616
N237620
N237621
N237623

High Productivity and Tru-Width[™] Sweeps





Sweeps, Shovels & Hardware



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



N331103 (7-in.)



N182043 (12-in.)

Features and Benefits

- Unique, proven, Tru-Width design maintains cutting width throughout sweep life, which can extend 30 percent beyond that of conventional sweeps.
- Available in low and medium crown.
- 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.
- Sweeps will fit most competitive equipment.
- See hardware AN234100 or AN234101 on page 21

High Productivity Field Cultivator Sweeps

Size	Thickness	Part Number	Angle	Crown	Wing	Hole Spacing	Bolthole Size
7-in.	¹∕₄-in.	N331103	47-deg.	Medium	Medium	1³/4-in.	⁷ ∕16-in.
9-in.	¹∕₄-in.	N331104	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ ∕16-in.
10-in.	¹∕₄-in.	N331105	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ ∕16-in.
12-in.	¹ /4-in.	N331106	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ /16-in.

Tru-Width Field Cultivator Sweeps

Size	Thickness	Part Number	Angle	Crown	Wing	Hole Spacing	Bolthole Size
7-in.	¹∕₄-in.	N182039	47-deg.	Medium	Medium	1³/4-in.	⁷ ∕16-in.
7-in.	¹∕₄-in.	N182039XLT*	47-deg.	Medium	Medium	1³/4-in.	⁷ ∕16-in.
9-in.	¹∕₄-in.	N182113	47-deg.	Low	Medium	1³/4-in.	⁷ ∕16-in.
9-in.	¹∕₄-in.	N182040	47-deg.	Medium	Medium	1³/4-in.	⁷ /16-in
9-in.	¹∕₄-in.	N182040XLT*	47-deg.	Medium	Medium	1³/4-in.	⁷ ∕16-in.
10-in.	¹∕₄-in.	N182114	47-deg.	Low	Medium	1³/4-in.	⁷ ∕16-in.
10-in.	¹∕₄-in.	N182041	47-deg.	Medium	Medium	1³/4-in.	⁷ ∕16-in.
10-in.	¹∕₄-in.	N182041XLT*	47-deg.	Medium	Medium	1³/4-in.	⁷ ∕16-in.
11-in.	¹∕₄-i n .	N182042	47-deg.	Medium	Medium	1³/4-in.	⁷ ∕16-in.
11-in.	¹∕₄-i n .	N182042XLT*	47-deg.	Medium	Medium	1³/4-in.	⁷ ∕16-in.
12-in.	¹∕₄-i n .	N182043	47-deg.	Medium	Medium	1³/4-in.	⁷ ∕16-in.
12-in.	¹∕₄-in.	N182043XLT*	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ /16-in.
16-in.	¹∕₄-in.	N182117	47-deg.	Low	Medium	1 ³ /4-in.	⁷ ∕16-in.
*XLT = Xtra-Life coating on wings, point, and stem.							

Conventional Sweeps

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Examples of 47-deg.-shank-angle conventionalwing sweeps for primary and seeding tillage.

N188991 (41/2-in.)

N188995 (12-in.)

Conventional Field Cultivator Sweeps

Size	Thickness	Part Number	Angle	Crown	Wing	Hole Spacing	Bolthole Size
4 ¹ /2-in.	³∕16 -in .	N130165	43-deg.	Medium	Medium	1³/4-in.	³∕8-in.
7-in.	³ /16-in.	N130166	43-deg.	Medium	Medium	1 ³ /4-in.	³∕ ₈ -in.
7-in.	³ /16-in.	N130166XLT*	43-deg.	Medium	Medium	1 ³ /4-in.	³∕ ₈ -in.
9-in.	³ /16-in.	N130167	43-deg.	Medium	Medium	1 ³ /4-in.	³ /8-in.
9-in.	³ /16-in.	N130167XLT*	43-deg.	Medium	Medium	1³/4-in.	³∕8-in.
10-in.	³ /16-in.	N130168	43-deg.	Medium	Medium	1 ³ /4-in.	³ /8-in.
10-in.	³ /16-in.	N130168XLT*	43-deg.	Medium	Medium	1³/4-in.	³∕8-in.
12-in.	1/4-in.	N973MN	43-deg.	Medium	Medium	1 ³ /4-in.	³ /8-in.
4 ¹ /2-in.	1/4-in.	N188991	47-deg.	Medium	Medium	1³/4-in.	⁷ /16-in.
4 ¹ / ₂ -in.	¹ /4-in.	N188991XLT*	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ /16-in.
7-in.	¹ /4-in.	N188992	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ /16-in.
7-in.	¹ /4-in.	N188992XLT*	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ /16-in.
9-in.	1/4-in.	N188993	47-deg.	Medium	Medium	1³/4-in.	⁷ /16-in.
9-in.	1/4-in.	N188993XLT*	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ /16-in
10-in.	1/4-in.	N188994	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ /16-in.
10-in.	¹ /4-in.	N188994XLT*	47-deg.	Medium	Medium	1 ³ /4-in.	⁷ /16-in.
12-in.	¹∕₄-in.	N188995	47-deg.	Medium	Medium	1³/4-in.	⁷ /16-in.
*VIT - V+.	a Life coating	on wings point on	d stom				



Hardware Kit Part Numbe

AN234100

AN234101



10

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.

• Sweeps will fit most competitive equipment.

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

er	Quantity	Part Number	Part Description	
	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	
	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	

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 percent beyond that of conventional sweeps.
- Available in low and medium crown.
- 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.
- Sweeps will fit most competitive equipment.

Tru-Width Chisel Plow Sweeps

Size	Thickness	Part Number	Angle	Crown	Wing	Hole Spacing	Bolthole Size
8-in.	¹∕₄-in.	N182044	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
10-in.	¹ /4-in.	N182045	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
12-in.	¹∕₄-in.	N182046	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
12-in.	¹ /4-in.	N182035	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
12-in.	¹∕₄-in.	N182035XLT*	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
14-in.	¹ /4-in.	43CP14TW	43-deg.	Medium	Wide	21/4-in.	¹ /2-in.
14-in.	¹∕₄-in.	N182036	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
14-in.	¹ /4-in.	N182036XLT*	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
16-in.	¹∕₄-in.	43CP16TW	43-deg.	Medium	Wide	21/4-in.	¹ /2-in.
16-in.	¹ /4-in.	N182037	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
16-in.	¹∕₄-in.	N182037XLT*	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
18-in.	¹ /4-in.	43CP18TW	43-deg.	Medium	Wide	21/4-in.	¹ /2-in.
18-in.	¹∕₄-in.	N182038	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
18-in.	¹ /4-in.	N182038XLT*	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
20-in.	¹∕₄-in.	N182111	51-deg.	Low	Wide	21/4-in.	¹ /2-in.
24-in.	¹ /4-in.	N232829	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
24-in.	¹ /4-in.	N233903*	51-deg.	Medium	Wide	21/4-in.	¹ /2-in.
*XLT=Xt	ra-Life coatir	ng on wings, point	, and stem				

Hardware

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

Conventional Sweeps





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



N130179 (8-in.)



N130185 (20-in.)

Hardware

Kit Part Numbe AN234104

AN234105



12

Features and Benefits

retention.

- Nose angle is precisely set for excellent soil penetration.
- Both low and medium-crown wing designs provide excellent soil mixing and residue
- 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 utilizing the characteristics in the charts.

			•				
Size	Thickness	Part Number	Angle	Crown	Wing	Hole Spacing	Bolthole Size
6 ¹ /2-in.	¹∕₄-in.	N130188	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
6 ¹ / ₂ -in.	¹∕₄-in.	N130188XLT*	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
8-in.	¹∕₄-in.	N130179	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
8-in.	¹∕₄-in.	N130179XLT*	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
10-in.	¹∕₄-in.	N130180	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
10-in.	¹∕₄-in.	N130180XLT*	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
12-in.	¹∕₄-in.	N130181	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
12-in.	¹∕₄-in.	N130181XLT*	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
14-in.	¹∕₄-in.	47CP014	47-deg.	Medium	Medium	21/4-in.	¹ /2-in.
14-in.	¹∕₄-in.	N130182	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
14-in.	¹∕₄-in.	N130182XLT*	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
16-in.	¹∕₄-in.	47CP016	47-deg.	Medium	Medium	21/4-in.	¹ /2-in.
16-in.	¹∕₄-in.	N130177	51-deg.	Low	Narrow	21/4-in.	¹ /2-in.
16-in.	¹∕₄-in.	N130183	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
16-in.	¹∕₄-in.	N130183XLT*	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
18-in.	¹∕₄-in.	47CP018	47-deg.	Medium	Medium	21/4-in.	¹ /2-in.
18-in.	¹∕₄-in.	N130178	51-deg.	Low	Narrow	21/4-in.	¹ /2-in.
18-in.	¹∕₄-in.	N130178XLT*	51-deg.	Low	Narrow	21/4-in.	¹ /2-in.
18-in.	¹∕₄-in.	N130184	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
18-in.	¹∕₄-in.	N130184XLT*	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
20-in.	¹∕₄-in.	N130185	51-deg.	Medium	Medium	21/4-in.	¹ /2-in.
24-in.	¹∕₄-in.	N188290	51-deg.	Low	Medium	21/4-in.	¹ /2-in.
	-						

Conventional Chisel Plow Sweeps

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

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

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

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

Chisel Points for Heel Sweeps, Double Point

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

Single-Point Chrome Cap

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

Heavy-Duty Double Point

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

Hardware

naluwale			
Kit Part Number	Quantity	Part Number	Part Description
For-N130189, N130	190, and N13019	93	
AN234106	50	10H1238	1/2-in. x2 3/4-in. Bolt
	50	14H960	1/2-in. Heavy Hex
	50	12H301	1/2-in. Washer
For-AN231796 with	heel sweep		
No kit order	50	N234753	3/8-in. x 1 3/4-in. Grade 8 Bolt
individual parts	50	10H1239	1/2-in. x 3-in. Hex
	50	24H1305	13/32-in. x 13/16-in. x 1/16-in. Washer
For-AN231796 with	out heel sweep		
AN234106	50	10H1238	1/2-in. x2 3/4-in. Bolt
	50	14H960	1/2-in. Heavy Hex
	50	12H301	1/2-in. Washer
For-N237890 and N2	237910		
No kit order	50	N234753	3/8-in. x 1 3/4-in. Grade 8 Bolt
individual parts	50	19H3057	1/2-in. x 2 3/4-in. Hex
	50	24H1305	13/32-in. x 13/16-in. x 1/16-in. Washer

Chisel Parts Chisel Parts Part Num N237720 A—Single-piece twisted slash point N237721 (N237720) N237722 N23772

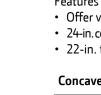


B—Points for moldboard assembly (N237724)

N237727 N237728 N237729

C—Moldboards for moldboard assembly (N237729)

Twisted Shovels



Size 3-in. x 24-in 3-in. x 24-in 4-in. x 24-in. 4-in. x 24-in.

Flat Twisted Shovels

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

Sweeps, Shovels & Hardware

14

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

Hardware for Points, Moldboards, and Twist Assemblies

Number	Description	OEM Number
CH1500	¹ /2-in. Clipped Head Bolt	
H301	1/2-in. Hex Nut	

Features and Benefits

• Offer versatility for your primary tillage operation.

• 24-in. concave shovel generates "soil ribbons" that tack down residue and reduce erosion damage.

• 22-in. flat shovel provide excellent soil/trash mixing and compaction control.

Concave Twisted Shovels

	Part Number	Material Thickness	Weight (lb.)
n. LH	N181913	¹ /2-in.	9.00
n. RH	N181912	1/2-i n .	9.00
n. LH	N181907	¹ /2-in.	11.00
n. RH	N181906	¹ /2-in.	11.00

ROW-CROP CULTIVATOR SWEEPS

Sweeps, Shovels & Hardware



Seeding Shovels

Size/Description	Part Number	Material Thickness	Weight (lb.)
1 ³ /16-in. Double-Point Shovel	B910M	³ /16-in.	0.70
1 ³ /4-in. Double-Point Shovel	K144M	³ /16-in.	0.95
15/8-in. x 8-in. Double-Point Shovel	N182058	1/4-in.	1.00
1 ³ /4-in. x 10-in. Double-Point Shovel (43-deg.)	N506M	⁵ /16-in.	1.13
1 ³ / ₄ -in. x 10-in. Double-Point Shovel (47-deg.)	N188990	5∕16-i n .	1.13
2-in. x 10-in. Double-Point Shovel (55-deg.)	N182029	5∕16-in.	1.59
2 ¹ /4-in. Single-Point Wraparound Shovel	M15012	1/4-in.	1.57
4-in. Single-Point Wraparound Shovel	M17050	1/4-in.	2.25
Weeding Knives			
Size Part	Number	Weight (lb.)
26-in. LH A:	38642	6.90	
26-in. RH A3	38641	6.90	

Miscellaneous products

Size/Description	Part Number
Sweep Extender (3 holes, for field cultivators)	N189542
1 ³ / ₄ -in. x 9-in. Shank Protectors (poly)	TY15990
2-in. x 10-in. Shank Protectors (poly, for chisel plows)	TY15991

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. • Available in low and medium crown.
- 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.

Size

24-in. 24-in. XLT

Hardware

Kit Part Numbe AN234095

AN234104

Tru-Width Row-Crop Cultivator Sweeps

Thickness	Part Number	Stem Angle	Crown	Hole Spacing	Bolthole Size
¹∕₄-i n .	N232829	51-deg.	Medium	21/4-in.	⁷ /16-in.
¹∕₄-i n .	N233903*	51-deg.	Medium	21/4-in.	⁷ /16-in.

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

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

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.

Conventional Row-Crop Cultivator Sweeps

Size	Thickness	Part Number	Angle	Crown	Wing	Hole Spacing	Bolthole Size
4-in.	³∕16-i n .	N239040	55-deg.	Medium	Narrow	2-in.	⁷ ∕16-in.
4-in.	³ /16-in.	N239040XLT*	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
6-in.	³ /16-in.	N239041	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
6-in.	³ /16-in.	N239041XLT*	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
8-in.	³ /16-in.	N239042	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
8-in.	³ /16-in.	N239042XLT*	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
10-in.	³∕16-i n .	N239043	55-deg.	Medium	Narrow	2-in.	⁷ ∕16-in.
10-in.	³ /16-in.	N239043XLT*	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
12-in.	¹∕₄-i n .	N239033	55-deg.	Medium	Medium	2-in.	⁷ ∕16-in.
12-in.	¹∕₄-i n .	N239033XLT*	55-deg.	Medium	Medium	2-in.	⁷ /16-in.
14-in.	¹∕₄-i n .	N239034	55-deg.	Medium	Medium	2-in.	⁷ /16-in.
14-in.	¹∕₄-in.	N239034XLT*	55-deg.	Medium	Medium	2-in.	⁷ /16-in.
16-in.	¹∕₄-i n .	N239035	55-deg.	Medium	Medium	2-in.	⁷ /16-in.
16-in.	¹∕₄-in.	N239035XLT*	55-deg.	Medium	Medium	2-in.	⁷ /16-in.
*XLT=Xt	ra-Life coatir	ng on wings, poin	t, and stem	1			

³/₄ Conventional Row-Crop Cultivator Sweeps

Description	Size	Thickness	Part Number	Angle	Crown	Wing	Hole Spacing	Bolthole Size
³∕₄Wing — RH	5-in.	³∕16 -in .	N239036	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
3 / ₄ Wing — LH	5-in.	³ /16-in.	N239037	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
³∕₄Wing — RH	6 ¹ /2-in.	³ /16-in.	N239038	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
3 / ₄ Wing — LH	6 ¹ /2-in.	³ /16-in.	N239039	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
³∕₄Wing — RH	7³/4-in.	³∕16 -in .	N187688	55-deg.	Medium	Narrow	2-in.	⁷ /16-in.
$^{3}/_{4}$ Wing — LH	7³/4-in.	³ /16-in.	N187689	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 / 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 ¹⁵ / 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 ¹¹ /16-in. Washer
	50	14H760	⁵∕₀-in. Hex Nut

S-Tine Sweeps and Shovels for Row-Crop Cultivators



Features and Benefits

- Produces even draft and maximum holding power.

S-Tine Sweeps and Shovels for Row-Crop Cultivators

Size	Thickness	Part Number	Angle	Crown	Hole Spacing	Bolthole Size
15⁄8-in. x 8-in.	1⁄4-in.	N182058	43-deg.	Medium	NA	³∕8-in.
15/8-in. x 8-in. Kit	¹ /4-in.	AN232008	43-deg.	Medium	NA	³∕8-in.
2 ³ /4-in.	1/4-in.	N182059	43-deg.	Medium	NA	³∕8-in.
2 ³ /4-in. Kit	¹ /4-in.	AN232009	43-deg.	Medium	NA	³∕8-in.
2 ³ /4-in.	1/4-in.	N182059XLT*	43-deg.	Medium	NA	³∕8-in.
4-in.	¹ /4-in.	N182060	43-deg.	Medium	NA	³∕8-in.
4-in. Kit	1/4-in.	AN232010	43-deg.	Medium	NA	³∕8-in.
4-in.	¹ /4-in.	N182060XLT*	43-deg.	Medium	NA	³∕8-in.
4-in. V-Pattern	1/4-in.	N182076	43-deg.	Medium	NA	³∕8-in.
4-in. V-Pattern Kit	¹ /4-in.	AN232011	43-deg.	Medium	NA	³∕ ₈ -in.
4-in. V-Pattern	1/4-in.	N182076XLT*	43-deg.	Medium	NA	³∕8-in.
7-in.	¹ /4-in.	N182061	43-deg.	Medium	NA	³∕8-in.
7-in.	1/4-in.	N182061XLT*	43-deg.	Medium	NA	³∕8-in.
9-in.	¹ /4-in.	N182081	43-deg.	Medium	NA	³ /8-in.
*XIT=Xtra-Life coatin	a on winas noir	nt and stem				

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

Hardware

Kit Part Number	Quantity	Part Number	Part Description
AN232013	50	N234753	³ / ₈ -in. x 1 ³ / ₄ -in. Bolt
	50	24H1139	.060-in. x ¹³ / ₃₂ -in. Washer
	50	14H931	³ / ₈ -in. Hex Nut

Rotary Hoe Wheel

M&W, and Hiniker rotary hoes.

- Triple-sealed bearing for long life.

Rotary Hoe Wheel

Description	Part Number	Weight (lb.)	Diameter (in.)
Rotary Hoe Wheel	AN142663	9.35	18
Rotary Hoe Wheel	AN142664	12.80	21



18



• Built with unique wraparound design, leading to a tight square shank-to-standard fit.

Sixteen curved tines on each wheel explode soil crust and uproot weeds. These wheels can also fit Yetter,

Spoon-formed tine for excellent aeration and weed eradication.

• Accurately peened rivets strengthen wheel construction for long life.

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, tanginserted, and double welded (top and bottom).
- The sweeps reduce twisting and have an extended product life.

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

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

Hardware

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

Precision Plus Narrow-Wing Sweeps

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

Hardware

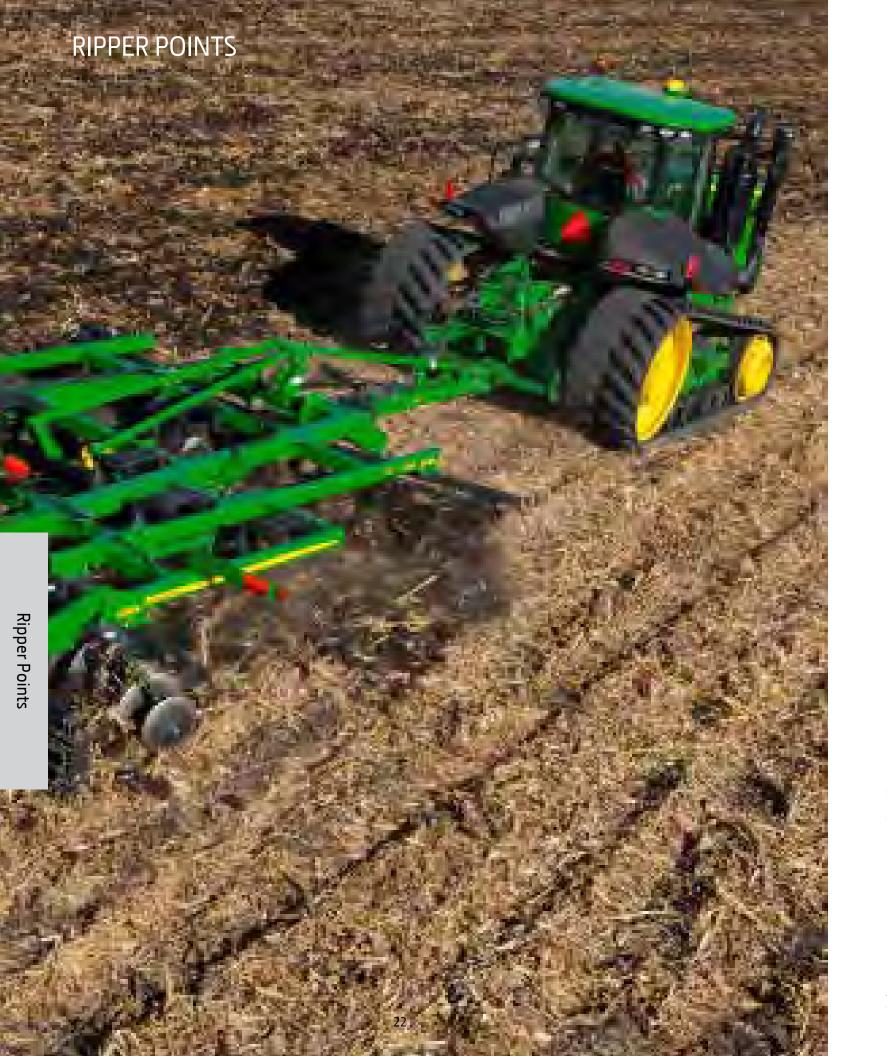
Kit Part Number	Quantity	Part Number	Part Description
AN232013	50	N234753	³ / ₈ -in. x 1 ³ / ₄ -in. Grade 8 Bolt
	50	24H1305	.060-in. x ¹³ / ₃₂ -in. Washer
	50	14H931	³ / ₈ -in. Hex Nut

Attaching Hardware Information

				Ki	t Breakdown		
Part Number	Hardware Kit Description	Bolt	Description	Nut	Description	Washer	Description
AN181518	Sweep Bolts $(50 - \frac{7}{16} \times 2^{1}/2)$	09H1761	⁷ / ₁₆ -in. x 2 ¹ / ₂ -in.	14H813	⁷ /16-in. Hex	24M7180	.105-in. x ¹ / ₂ -in.
AN181519	Part no longer a kit — order individual pieces	03H1857	⁵ / ₈ -in. x 2 ³ / ₄ -in.	14H1039	⁵∕≀₀-in. Hex	24H1192	.105-in. x ¹¹ / ₁₆ -in.
AN181520	Sweep Bolts (50 – 7/16 x 11/2)	09H1765	⁷ / ₁₆ -in. x 1 ¹ / ₂ -in.	14H813	⁷ /16-in. Hex	24H1327	.105-in. x ¹⁵ / ₃₂ -in.
AN181521	Sweep Bolts (50 – 5/8 x 11/2)	03H1528	⁵ / ₈ -in. x 1 ¹ / ₂ -in.	14H760	⁵∕≀₀-in. Hex	24H1139	.105-in. x ¹¹ / ₁₆ -in.
AN232013	Sweep Bolts (50 – 3/8 x 13/4)	N234753	³ / ₈ -in. x 1 ³ / ₄ -in.	14H931	³∕ ₈ -in. Hex	24H1305	.060-in. x ¹³ / ₃₂ -in.
AN234095	Sweep Bolts (50 – 7/16 x 13/4)	N181782	⁷ / ₁₆ -in. x 1 ³ / ₄ -in.	14H813	⁷ /16-in. Hex	24H1327	.105-in. x ¹⁵ / ₃₂ -in.
AN234096	Sweep Bolts (50 – 7/16 x 21/4)	10H1160	⁷ / ₁₆ -in. x 2 ¹ / ₄ -in.	14H813	⁷ /16-in. Hex	24H1327	.105-in. x ¹⁵ / ₃₂ -in.
AN234097	Sweep Bolts — Special Head	N181784	⁷ / ₁₆ -in. x 2 ¹ / ₄ -in.	14H813	⁷ /16-in. Hex	24H1327	.105-in. x ¹⁵ / ₃₂ -in.
AN234098	Sweep Bolts — Special Head	N181783	⁷ / ₁₆ -in. x 2-in.	14H813	⁷ /16-in. Hex	24H1327	.105-in. x ¹⁵ / ₃₂ -in.
AN234099	Sweep Bolts (50 – 3/8 x 11/4)	10H1027	³ / ₈ -in. x 1 ¹ / ₄ -in.	14H812	³∕ ₈ -in. Hex	24H1305	.060-in. x ¹³ / ₃₂ -in.
AN234100	Sweep Bolts (50 – 7/16 x 11/2)	10H1073	⁷ / ₁₆ -in. x 1 ¹ / ₂ -in.	14H813	⁷ /16-in. Hex	24M7043	.060-in. x ¹⁵ / ₃₂ -in.
AN234101	Sweep Bolts (50 – Special Head)	N189527	No. 3 Head	14H812	³∕ ₈ -in. Hex	24H1305	.060-in. x ¹³ / ₃₂ -in.
AN234102	Sweep Bolts (50 – 7/16 x 13/4)	10H1158	⁷ / ₁₆ -in. x 1 ³ / ₄ -in.	14H813	⁷ /16-in. Hex	24M7043	.060-in. x ¹⁵ / 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	$^1\!/_2\text{-in.}$ Lock Washer
AN234104	Sweep Bolts (50 – $1/2 \times 2^{1}/4$)	10H1236	¹ / ₂ -in. x 2 ¹ / ₄ -in.	14H960	¹ / ₂ -in. Heavy Hex	12H301	$^1\!/_2\text{-in.}$ Lock Washer
AN234105	Sweep Bolts (50 – $1/2 \times 2^{1}/2$) R.O.	10H1237	¹ / ₂ -in. x 2 ¹ / ₂ -in.	14H960	¹ / ₂ -in. Heavy Hex	12H301	$^1\!/_2\text{-in.}$ Lock Washer
AN234106	Sweep Bolts (50 – $1/2 \times 2^{3}/4$) 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 ¹⁵ / 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 ¹⁵ / 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 ¹⁵ / ₃₂ -in.

Part Number	Hardware Kit Description	Tru- Width™ FC	Conventional Wing FC	Perma- Loc™ FC		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						х			
AN181520	50 - ⁷ /16 x 1 ¹ /2						х			
AN181521	50 – ⁵ / ₈ x 1 ¹ / ₂									
AN232013	50 - ³ / ₈ x 1 ³ / ₄								х	х
AN234095	50 - ⁷ / ₁₆ x 1 ³ / ₄							x		
AN234096	50 - ⁷ / ₁₆ x 2 ¹ / ₄									
AN234097	Special Head									
AN234098	Special Head									
AN234099	50 - ³ /8 x 1 ¹ /4									
AN234100	50 - ⁷ / ₁₆ x 1 ¹ / ₂	х	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				х	х				
AN234105	50 – ¹ / ₂ x 2 ¹ / ₂ R.O.				х	x				
AN234106	50 – ¹ / ₂ x 2 ³ / ₄ R.O.									
AN234168	50 - ⁷ / ₁₆ x 2									
Perma-Loc [™] Har	dware Bundle									
AN234540	50 PCS — FC			х						
AN234961	50 PCS 200# Standard FC			x						





RIPPER POINTS

John Deere ripper points, available in regular and heavy-duty, are highly rock resistant for longer wear. They fluff the soil for improved root penetration and water percolation, and the patented wing profile creates less draft for easier pulling and lower horsepower requirements.

LaserRip[™] II Ripper Points

Features and Benefits

- Exclusive cast material ensures resistance to rock chipping.
- Fits John Deere and many competitive machines with 1 1/4-in parabolic standards.

Size Wingless 5-in. 7-in. 10-in. LaserF Size Wingless 7-in.

LaserRip Ripper Points for All-Makes Applications

Features and Benefits

Regular-Duty LaserRip Ripper Points

Size	Applications	Part Number	Standard
2 ³ /4-in.	Sunflower	N237223	1 ¹ /4-in. Parabolic
7-in.	Sunflower	N237224	11/4-in. Parabolic
2 ³ /4-in.	DMI	N236412	11/2-in. Parabolic
7-in.	DMI	N400739	1 ¹ / ₂ -in. Parabolic
10-in.	DMI	N400740	11/2-in. Parabolic

Min-Till LaserRip Points

Features and Benefits

• Designed to create minimum soil disturbance

Min-Till LaserRip Point

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



- High-Performance for those operating in difficult conditions.Critical wear areas are thicker for increased wear life.
- Patented enlarged mounting holes for bolt head protection and retention.

LaseRip II Ripper Points

LaserRip II Points to fit 1¼-in. Standard for John Deere (Front mounting hole)

Applications	Part Number	Standard				
Deere	N400763	1 ¼-in. Parabolic				
Deere	N400764	1 ¼-in. Parabolic				
Deere	N400765	1 ¼-in. Parabolic				
Deere	N400766	1 ¼-in. Parabolic				
Rip II Points to fit 1¼-in. Standard for CNH/DMI/Brillion (Rear mounting hole)						

Application	Part Number	Standard	
CNH/DMI/Brillion	N401043	1 ¼-in. Parabolic	
CNH/DMI/Brillion	N401044	1 ¼ -in. Parabolic	

• Exclusive cast material ensures high resistance to rock chipping.

• Critical wear areas thicker for increased wear life.

NUTRIENT APPLICATION



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

Size	Part Number	Material Thickness	Туре
2 ¹ /4-in. x ³ /4-in.	AA21507	³ /4-in.	Standard
3-in. x ³ /4-in.	AN260481	³ /4-in.	Single Capped (3 ³ /4-in.)
3-in. x ³ /4-in.	AN260482	³ /4-in.	Double Capped (71/2-in.)

Heavy-Duty Steel Ripper Points — 11/4-in. thickness

Size	Part Number	Material Thickness	Туре
2 ¹ / ₂ -in. x 1 ¹ / ₄ -in.	AP39487	11/4-in.	Standard
3-in. x 1 ¹ /4-in.	AP39496	11/4-in.	Single Chrome Capped (3 ³ /4-in.)
3-in. x 1 ¹ /4-in.	AP39491	11/4-in.	Full-Cover Chrome Capped (10-in.)



AN261226

Coverboards

- For use with LaserRip points on $1^{1}/4$ -in. and $1^{1}/2$ -in. parabolic standards: John Deere, Case, and DMI.
- Move more soil and bury residue.
- Fit John Deere 2700 Mulch Ripper.
- Not for use with wear shins.

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

Soil Probe

To detect soil compaction, use of the soil probe is recommended.

- 1. Press probe into ground slowly with consistent down pressure.
- 2. Note the depth at which it takes added force to penetrate (typically the top of the compacted layer).
- 3. Continue to force the probe through this layer and note the depth where less force is needed (typically the bottom edge).
- 4. Continue in different areas of the field to diagnose compacted areas.
- 5. Set opening depth one inch below the bottom edge of the compacted layer.











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

Replaceable Pin-On Points

Description
Mole-Style Replaceable Pin-On Point Kit
Wingless Replaceable Pin-On Point Kit

Application	Part Number	Quantity	Part Descriptions
Anhydrous	AN236291	1	Knife Configuration (³ / ₈ -in. stainless steel anhydrous ammon tube) Poly liquid and vapor tube not included with knife. The poly tubes (liquid and vapor) come with the anhydrous flow syster for the toolbar.
Anhydrous, Dry, and Vapor	AN236292	1	Knife Configuration (³ / ₈ -in. stainless steel anhydrous ammoni 1 ³ / ₄ -in. dry, and ³ / ₄ -in. vapor tube) Poly liquid and vapor tube not included with knife. The poly tubes (liquid and vapor) come with the anhydrous flow syster for the toolbar.
Anhydrous and Dry	AN236292	1	Knife Configuration (³ /8-in. stainless steel anhydrous ammon and 1 ³ /4-in. dry tube) Poly liquid and vapor tube not included with knife. The poly tubes (liquid and vapor) come with the anhydrous flow syster for the toolbar.
Anhydrous and Liquid	AN236293	1	Knife Configuration (³ /8-in. stainless steel anhydrous ammon and ¹ /2-in. liquid tube) Poly liquid and vapor tube not included with knife. The poly tubes (liquid and vapor) come with the anhydrous flow syster for the toolbar.
Anhydrous and Vapor	AN236293	1	Knife Configuration (³ / ₈ -in. stainless steel anhydrous ammon and ³ / ₄ -in. vapor tube) Poly liquid and vapor tube not included with knife. The poly tubes (liquid and vapor) come with the anhydrous flow syster for the toolbar.
Anhydrous, Liquid, and	AN236293	1	Knife Configuration (³ / ₈ -in. stainless steel anhydrous ammoni ¹ / ₂ -in. liquid, and ³ / ₄ -in. vapor tube) Poly liquid and vapor tube not included with knife. The poly tubes (liquid and vapor) come with the anhydrous flow syster for the toolbar.
Mole-Style Replaceable	AN236320	1	Cast-Chrome Pin-On Point with A35642 Roll Pin
Wg.csscp.accasle Pin-On Point Kit	AN237013	1	Cast-Chrome Reduced Disturbance Pin-On Point with A3546 Roll Pin
		<u> </u>	
Mounting Hardware	19M7481	2	M16 x 80 Cap Screw

Nutrient Application Part Detail

Nutrient Application

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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 as part of heavier implements pulled by higher horse-power tractors.

Even at moderate tractor speed, a disk blade will grind itself against the soil 4,000 times an hour. Each rotation means another flexing of the metal. The impact of its edge against a granite boulder tops 500,000 psi.

At John Deere, we talk about disk blades using two different names: John Deere O.E.M. disk blades and All-Makes blades.

John Deere Diamond Series Blades are made specifically for John Deere equipment and meet a high set of standards. These standards, JDS 100, ensure that John Deere blades are made from the finest steel, heat-treated properly, and dimensionally correct.

The Diamond Series Blades for All-Makes line of disk blades uses these same high standards for blades that fit competitive equipment.

Value

Value — that is the goal of each and every disk blade, whether it is John Deere or All Makes. Each is designed to meet a specific need of the customer and give excellent value for the dollar spent. Only you, the John Deere dealer, can offer the farmer such a variety of products, whether it's for a John Deere machine or a competitive brand.

Disk Blade Material

Rockwell Hardness



without breaking.

The heat-treat process must be closely monitored to control hardness within a small range. This maximizes wear resistance, but ensures the blade will be flexible and absorb impacts without failure.

All lines of disk blades offered by John Deere are within this range. In addition, great care is taken to make sure the hardness is consistent throughout the blade. This consistency is one of the hallmarks of all the blades sold by John Deere.

Performance Features

Improved Wear Rates reduce part-replacement costs. On average, customers are covering more acres than they have in the past. As a result, wear rates are a larger issue. The window of opportunity is not getting any larger, so it is imperative that the implement and its parts perform.

- disk blades they replace.
- materials) while maintaining excellent durability.
- Manufacturing processes are simpler, providing for better consistency.

In addition to micro-alloy content, the hardness of the steel is important. A properly hardened blade will resist wear, but too much hardness can cause a blade to be brittle. Because a disk blade is constantly flexing, it must have the ability to bend

• John Deere Diamond Series disk blades are up to 17 percent harder than the old high-carbon John Deere

Micro-alloy steel can be hardened to higher levels (roughly 7 to 10 percent higher than traditional

• The new micro-alloy steel yields extended life and durability.

Improved Flex Capability when striking anchored objects. This is an important feature, as customers are using higher-horsepower tractors to pull disks, thus pulling them at higher rates of speed to increase productivity. The improved flexibility of the blade will help keep the customer up and running instead of replacing broken blades.

- Micro-alloy steel is more ductile, increasing its ability to flex more readily when severe side loads occur.
- The improved ductility also reduces the potential for edge deformation.

Sharper Edges provide for more aggressive penetration and improved cutting action. With today's genetically modified seed, the residue (such as that from BT corn stalks) is much more challenging to deal with. Also as yields continue to increase, customers have to deal with more residue than ever before. All of these are reasons why sharper and longer-lasting blades provide our customers with more uptime.

• The micro-alloy material tends to wear more on the sidewall in proportion to the diameter. This provides a sharper, more aggressive edge compared to high-carbon disk blades that tend to reduce in diameter as they wear.

Ball Test

The "Ball Test" involves drilling a 1/2-in. hole in the blade and then trying to force a 1-in. ball through that hole. The resulting cracks then indicate the effectiveness of the method of inclusion control. A dominant crack in one direction is a failure. Random cracks that do not exceed a 3-in. diameter circle indicate that inclusion control was good and the blade passes inspection.

Wear Test

Wear tests can indicate which blades have the proper micro-alloy levels and hardness to resist wear, but the tests give no indication of the ability to absorb shock and impacts, or the dimensional accuracy of the blade. Wear tests are done under laboratory conditions by running sand between a coupon cut from a blade and a rubber wheel.

Toughness Test



To measure toughness, the steel industry has developed the Tensile and Yield test and the Charpy Impact test.

In the Tensile and Yield test, a coupon is literally pulled apart. The measurement of the amount of force applied before the material begins to stretch is its yield point. The point at which it finally breaks is its tensile strength.

In the Charpy Impact test, coupons are subjected to increasingly stronger blows until breakage occurs.

These two tests give a real indication of the toughness of a disk blade and its ability to flex without breaking and to withstand impacting such materials as rocks and stumps.

Basic Shapes of Disk Blades







Vertical Tillage

The front plain blade has a shallow concavity to enable operation at narrower blade spacing's which helps in the sizing of residue and also assists in operating at higher speeds.

The rear 13-wave blade delivers maximum vertical residue soil mixing, soil aeration and residue anchoring. The waves help reduce drag and consequently wear and allow the blade to operate more efficiently at higher speeds.



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The spherical, the most common shape, is so called because it represents a slice from a sphere. Because there are no flat areas on this blade, its curvature must be consistent and exact if the mating parts are to fit correctly against the blade. Consistent diameter and depth (concavity) are good indications that the curvature is correct. Many John Deere blades are spaced out to two decimal places as a way of maintaining control over this characteristic.

A variation of the spherical blade is the *raised flat center*. This style is commonly found on Case-IH-brand disks. With this style of blade, it is very important that the flat area in the center be in the same plane as the edge of the blade and that the diameter of this area be correct. If these two characteristics are not controlled, there can be problems with wobble and eccentricity.

The conical represents a section cut from a cone. This is a John Deere design still popular in some soils and tillage conditions. With this blade, diameter, concavity, and the center area must be controlled as well as the degree of the angle of the cone itself. Because of the aggressive action of this blade, dimensional accuracy must be maintained for the entire disk to work properly.

Blade Spacing Versus Diameter

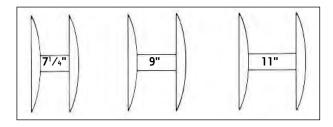
Spacing is the most limiting factor when selecting the proper blade diameter. In general, the larger the space between the blades, the greater the volume of trash and soil that can pass through. This permits the use of larger-diameter blades that cut and throw more trash and soil.

(a) For 7¹/4-in. blade spacing, 18-in., 20-in., or 22-in. blades are recommended. This 7¹/4-in. blade spacing is the best choice for thorough chemical incorporation and seedbed preparation. This spacing is suited for disking through cover crops and penetrating the soil easily.

(b) For 9-in. spacing, 22-in. or 24-in. blades are optimum. This 9-in. spacing provides more disking versatility. It's narrow enough to prepare seedbeds and incorporate chemicals. It's also wide enough to offer ample blade weight and clearance for disking crop residue.

(c) For 11-in. spacing, 24-in., 26-in., or 28-in. blades work best for deep tillage, hard-topenetrate soils, or heavy residue.

Performance



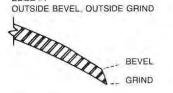
It is important that replacement blades are compatible with the specific operation. Characteristics such as correct blade diameter, shape, thickness, and edge will affect overall disk performance and must be considered. Choosing the best blade for a specific operation will give the type of penetration,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

Thickness

A thinner, smaller blade will penetrate better, but will break more easily. A thicker, larger blade is heavier to stand up better in rocky conditions, but will not penetrate as easily.



TYPES OF DISK EDGES EDGE #1



EDGE #10 INSIDE BEVEL, OUTSIDE GRIND GRIND Edging and notches play an important role in the high-residue conditions common today. John Deere blades have edge designs that provide trash-cutting ability with enough toughness to hold up in the field. The blade being too sharp will result in feathered edges that peen over and break off, resulting in uneven wear patterns. A blade that is too dull will not penetrate the ground or cut the trash. The notched blades have notches cut at angles to provide a sharp edge inside the notch. They are beneficial in cutting trash.

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.

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. These blades can be rolled to restore the edge sharpness for customers needing a better penetrating blade. The special boron-composite material is capable of enduring the edge-rolling techniques without jeopardizing blade edge durability and longetivity. 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 $19^{1}/_{2}$ -20-in.
- 22-in. original diameter replace when worn to 18¹/₂–19-in.

Additional information:

Blades will wear differently depending on conditions and operation, and these guidelines do not fall within the John Deere warranty policy for these blades.

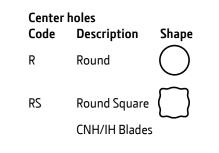
Type of Disk Blades Code Description

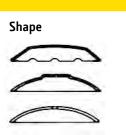
С	Cutout
PF	Plain Flat Center

Ρ Plain Edge

Common Thicknesses (Gauge)

Metric	Birmingham	or	Fraction
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	n parentheses for comp	barison	

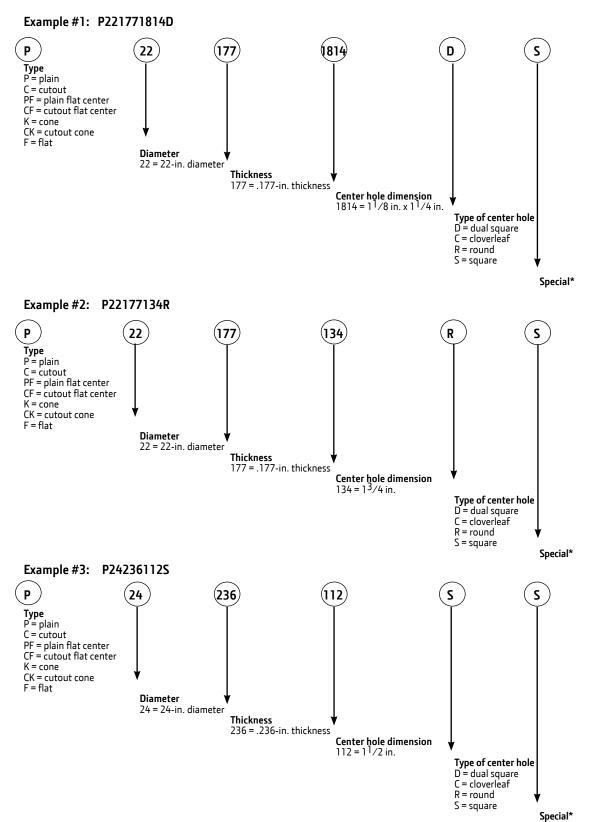




Code	Description	Shape
D	Dual Square	
S	Square	

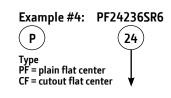
All-Makes Disk Blades — Smart Part Instructions

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



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.	11/8-in.	59/64-in.	1 ³ /64-in.
SR-3	11/8-in.	11/4-in.	1 ³ /64-in.	111/64-in.
SR-4	11/4-in.	11/2-in.	111/64-in.	ן 19⁄64-in.
SR-4.5	1 ¹ /2-in.	1 ⁵ /8-in.	19/64-in.	ז ³⁵ /64-in.
SR-5	11/2-in.	13/4-in.	135/64-in.	143/64-in.
SR-6	13/4-in.	2-in.	151/64-in.	ן51/64-in.
SR-7	21/4-in.	11/2-in.	219/64-in.	235/64-in.

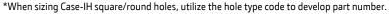


Diameter 24 = 24-in. diameter

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

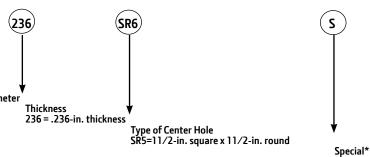
For special disking applications, deviations in concavities may occur. When a blade has a special concavity, the part number will be noted with "S". Special concavities are used on plain blades only. The print must be reviewed to identify unique concavity.

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.



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



Disk Blades — Plain Edge

art Number		neter	Thick	ness	Blade		r Hole	Center		cavity	Арр. Туре		
	inch	mm	inch	mm	Edge	inch	mm	HoleShape	inch	mm			
22877	14	356	0.098	2.5		0.53	13.49	R	1.19	30.23	John Deere		
B27492	14	356	0.038	3	i i	1.17	29.72	S	1.19	30.23	John Deere		
N216471	14	356	0.118	3	i	2	50.8	R	1.19	30.23	John Deere		
A38558	16	406	0.118	3	i i	1.06	26.92	R	1.5	38.1	John Deere		
B31343	16	406	0.118	3	i	1.05x1.17	26.59x29.77	D	1.45	36.83	John Deere		
N186718	16	406	0.118	4.5	1	1.05x1.17	26.59x29.77	D	1.45	38.1	John Deere		
A36156	18	408	0.177	4.5	10	1.17x1.30	29.72x33.02	D	2.8	71.12	John Deere		
A30150 A39551	18	457	0.157	4	1	1.06	29.72x33.02	R	1.75	44.45	John Deere		
				4.5			26.92 29.77x32.94	D					
A47239	18	457	0.177		-	1.17x1.30			1.75	44.45	John Deere		
B31313	18	457	0.118	3		1.05x1.17	26.59x29.77	D	1.75	44.45	John Deere		
B31315	18	457	0.138	3.5		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		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	l i l	1.17	29.17	S	1.9	48.26	John Deere		
N402465	20	508	0.177	4.5	l i l	2	50.8	R	1.64	41.9	John Deere		
N242912	20	508	0.177	4.5	l i l	2	50.8	R	1.9	48.3	John Deere		
A27767	22	559	0.256	6.5	ii	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		
A27700					10								
A28610	22	559	0.256	6.5		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	i	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	0.236	4.7	1	1.58	40.08	R	3.6	91	John Deere		
N240064	24	610	0.187	4.7	10	1.17x1.30	29.77x32.94	D	2.88	73.15	John Deere		
N241278	24	610	0.177	4.5	10	1.17x1.30	29.77x32.94	D	2.00	58.42			
										50.42 E0 / 2	John Deere		
N242322	24	610	0.256	6.5		1.17x1.30	29.77x32.94	D	2.3	58.42	John Deere		
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		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		
222561185	22	559	0.256	6.5	i	1.17	29.72	S	2.48	62.99	All-Makes		
242561125	24	610	0.256	6.5	i	1.5	38.1	S	3.04	77.22	All-Makes		
M33551445	14	356	0.236	2.4		2.5	64	R	0.91	23	DMI		
					1 1								
M33551850	18	457	0.138	3.5	1	1.8	46	R	1.6	41	DMI		
M33552050	20	508	0.197	5		5.5	135	R	1.8	44	DMI		
M33552055	20	508	0.256	6.5	1	5.5	135	R	1.8	44	DMI		
M33552255	22	559	0.256	6.5	1	5.5	135	R	1.8	44	DMI		
218138112R	18	457	0.138	3.5	1	1.56	39.62	R	1.74	44.19	Krause		
20177112R	20	508	0.177	4.5	1	1.56	39.7	R	1.89	48.01	Krause		
20197112R	20	508	0.197	5	1	1.55	39.29	R	1.85	46.99	Krause		
22177112R	22	559	0.177	4.5	1	1.55	39.29	R	2.57	65.28	Krause		
22197112R	22	559	0.197	5	1	1.56	39.7	R	2.53	64.26	Krause		
222256112R	22	559	0.256	6.5	l i l	1.55	39.29	R	2.48	62.99	Krause		
22230112R	24	610	0.197	5	l i l	1.55	39.29	R	2.8	71.12	Krause		
24256112R	24	610	0.157	6.5	1	1.55	39.29	R	3.04	77.22	Krause		
					1 1								
24256112R	24	610	0.256	6.5		1.55	39.29	R	3.04	77.22	Krause		
20197134RS	20	508	0.197	5		1.8	45.72	R	1.47	37.34	Landoll/Sunflo		
20256134RS	20	508	0.256	6.5	1	1.8	45.72	R	1.45	36.83	Landoll/Sunflo		
P22177134R	22	559	0.177	4.5	1	1.82	46.2	R	2.5	63.5	Landoll/Sunflo		
P22197134R	22	559	0.197	5	1	1.8	45.72	R	2.56	65.02	Landoll/Sunflo		
P22256134R	22	559	0.256	6.5	1	1.8	45.72	R	2.47	62.74	Landoll/Sunflo		
P24177134R	24	610	0.177	4.5	l i l	1.8	45.72	R	2.81	71.37	Landoll/Sunflo		
P24197134R	24	610	0.197	5	i i	1.8	45.72	R	2.78	70.61	Landoll/Sunflo		
24157154R	24	610	0.256	6.5	i i	1.8	45.72	R	3	76.2	Landoll/Sunflo		



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Vertical Tillage Disk Blades

Part Number	Diam	neter	Thick	ness	Blade	Cente	r Hole	Center	Concavity		
	inch	mm	inch	mm	Edge	inch	mm	Hole Shape	inch	mm	
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	

John Deere Rollable-Edge Disk Blades

Part Number	Diam	eter	Thick	ness	Blade	Disk	Cent	ter Hole	Center	Con	cavity
	inch	mm	inch	mm	Edge	Edge	inch	mm	Hole Shape	inch	mm
John Deere Appli	cations										
N404744	20	508	0.197	5	Plain	1	2	50.8	S	1.65	41.9
PS222561814D	22	559	0.256	6.5	Plain	special	1.17 x 1.30	29.77 x 32.94	C	2.25	57.1
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	52.5
PS242561814D	24	610	0.256	6.5	Plain	special	1.17 x 1.30	29.77 x 32.94	С	2.3	58.4
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	58.4
Krause Applicatio	ons										
PS22256112R	22	559	0.256	6.5	Plain	special	1.55	39.29	R	2.25	57.1
PS24256112R	24	610	0.256	6.5	Plain	special	1.55	39.29	R	2.3	58.4
Landoll/Sunflowe	er Applic	ations						·			
PS22256134R	22	559	0.256	6.5	Plain	special	1.8	45.72	R	2.25	57.1
PS24256134R	24	610	0.256	6.5	Plain	special	1.8	45.72	R	2.3	58.4

Disk Blades — Cutout Edge

				<u> </u>							
Part Number	Diam	neter	Thick	ness	Edge	Blade	Cent	er Hole	Center	Cond	avity
	inch	mm	inch	mm	Туре	Edge	inch	mm	Hole Shape	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	С	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	С	3.27	83.06
A47238	20	508	0.256	6.5	Cutout, 10	1	1.17 x 1.30	29.77 x 32.94	С	2	50.8
B31323	22	559	0.177	4.5	Cutout, 10	1	1.17 x 1.30	29.77 x 32.94	С	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	С	2.5	63.5
A36293	22	559	0.256	6.5	Cutout, 7	10	1.17 x 1.30	29.72 x 33.02	С	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	С	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	С	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 S	Square	RS – Rou	nd Squa	re						
	R – Roun		S – Squar		-						
		-		-							

All-Makes Disk Blades Plain Flat Center (Crimped) — Plain Edge — CNH/IHC New Holland

Part Number	Diarr	neter	Thick	ness	Edge	Blade	Center Hole		Center	Concavity	
	inch	mm	inch	mm	Туре	Edge	inch	mm	Hole Shape	inch	mm
PF20177118C	20	508	0.177	4.5	Plain	1	1.17	29.77	С	2	50.8
PF20177SR3	20	508	0.177	4.5	Plain	1	1.23 x 1.36	32.24 x 34.42	SR3	1.93	49.02
PF22177118C	22	559	0.177	4.5	Plain	1	1.17	29.77	С	2.5	63.5
PF22197SR3	22	559	0.197	5	Plain	1	1.23 x 1.36	32.24 x 34.42	SR3	2.43	61.72
PF22197SR4	22	559	0.197	5	Plain	1	1.34 x 1.59	34.04 x 40.39	SR4	2.48	62.99
PF22197118C	22	559	0.197	5	Plain	1	1.17	29.77	С	2.46	62.48
PF22256SR4	22	559	0.256	6.5	Plain	1	1.34 x 1.59	34.04 x 40.39	SR4	2.47	62.74

Abbrevations: 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.

O.E.M. Disk Blades — Center Hole

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Model Number	Axle Size	Model Number	Axle Size	Model Number	Axle Size
Allis Chalmers		Dunham-Lehr		John Deere (continued)	
2100	11/2-in. square	GC	1 ¹ /8-in. square	1630	11/2-in. square
2300	1 ¹ /2-in. square	34	$1^{1}/2$ -in. round	100	1 ¹ /8-in. square
Amco		Ford		110	1 ¹ /8-in. square
WOD, WTD	1 ¹ /8-in. square	201	1-in. round	200 Series	1 ¹ /8-in. square
WOE	1 ³ / ₈ -in. round	202	1-in. round	210 Series	1 ¹ /8-in. square
WOF, WOJ	11/2-in. square	204	1-in. round	220	1 ¹ /8-in. square
WTF, WTJ	11/2-in. square	219	1 ¹ / ₂ -in. square	230 (Cone Disc)	1 ¹ /8-in. square
F-15	1 ¹ / ₂ -in. square	220	1 ¹ /8-in. square	310	1 ¹ /8-in. square
Athens	·	221	¹⁵ /16-in. round	525	1 ¹ /4-in. square
48	1-in. square	222	1 ¹ /8-in. square	637	1 ¹ /8-in. square
62	11/8-in. square	223	1 ¹ /8-in. square	1630	11/2-in. round
126	11/2-in. square	236	1 ¹ / ₂ -in. square	1635	1 ¹ / ₂ -in. square
131	1 ¹ /2-in. square	240	1 ¹ /8-in. square	1640	1 ¹ /2-in. square
Blanton		241	1 ¹ /8-in. square	2620 (Cone Disc)	1 ¹ /2-in. square
4500	11/2-in. square	243	1 1/2-in. round	2621	1 ¹ /2-in. square
B900	1 ¹ / ₈ -in. square	Hesston		2650	1 ³ / ₄ -in. square
B1000	11/8-in. square	2440	1 ¹ /8-in. square	2651	1 ³ /4-in. square
3000H	11/2-in. square	2420	11/8-in. square	2700	2 ¹ /4-in. square
Burch		International Harvest	er	BWA	1 ¹ /4-in. square
Kwick-Set	11/8-in. square	122	11/8-in. square	BWF	1 ¹ /4-in. square
209	1 ¹ /8-in. square	132	1 ¹ /8-in. square	Kent	
208 BW	11/2-in. round	350	1 ¹ /8-in. square	6112D	11/2-in. round
Tru-Cut	7/8-in. square	370	11/8-in. square	6118D	11/2-in. round
Bush-Hog		470	1 ¹ /8-in. square	6323D	1 ¹ / ₂ -in. round
245	11/4 or 11/2-in. square	475	11/8-in. square	6327D	11/2-in. round
346	21/4-in. round	480	11/8-in. square	7333D	11/2-in. round
1440	1 ¹ /8-in. square	485	1 ¹ /8-in. square	6540D	1 ¹ / ₂ -in. round
1445	11/8 or 11/4-in. square	490	1 ¹ /8-in. square	7550D	11/2-in. round
1450	11/8 or 11/4-in. square	500	1 ¹ / ₂ -in. square	Kewanee	
145	1 ¹ /4-in. square	501	1 ¹ / ₂ -in. square	800	1 ¹ /8-in. square
146 Reg.	11/4-in. square	596	1 ¹ / ₂ -in. square	1000	11/8-in. square
146 HD	11/2-in. square	610	11/2-in. square	Krause	
1422	1-in. or 11/8-in. square	630	11/2-in. round	1952-1956-1960-1970	11/2-in. round
1424	11/8-in. square	770	1 ¹ / ₂ -in. square	1968–1969–1979	11/2-in. round
1432	1 ¹ /8-in. square	780	1 ³ /4-in. square	1965–1966–1976	1 ¹ / ₂ -in. round
1436	11/8-in. square	John Deere		1480 Series	11/2-in. round
1437	11/8-in. or 11/2-in. square	105	1-in. round	1480 Series	1 ³ /4-in. round
1438	1 ¹ /8-in. square	115	1 ¹ /8-in. round	1900 Series	1 ¹ /2-in. round
1444	1 ¹ /8-in. square	215	11/2-in. round	1950 Series	11/2-in. round
Rolling Bedder	1 ¹ /8-in. square	225	11/2-in. round	2100 Series	11/2-in. round
		235	1 ¹ / ₂ -in. round	2200 Series	1 ¹ /2-in. round
		425	$1^{1}/_{2}$ -in. round	2400 Series	11/2-in. round

O.E.M. Disk Blades — Center Hole (continued)

O.E.M. Disk Model Number	Axle Size	O.E.M. Disk Model Number	Axle Size	O.E.M. Disk Model Number	Axle Size
Krause (continued)					
2400 Series	1 ³ /4-in. round	Schafer		White	
2700 Series	$2^{1/2}$ -in. round	355	1 ³ /4-in. round	250	11/8-in. squ
3100 Series	11/2-in. round	555	2-in. round	251	11⁄8-in. squ
3200 Series	1 ³ /4-in. round	Sunflower		252	11⁄8-in. squ
+995 Series	$1^{1}/_{2}$ -in. round	1210	11/2-in. round	253	11⁄8-in. squ
5800 Series	11/2-in. round	1211	1 ³ /4-in. round	254	1¹∕8-in. squ
7300 Series	11/2-in. round	1230	1 ¹ / ₂ -in. round	255	1¹∕8-in. squ
7400 Series	1 ¹ / ₂ -in. round	1231	1 ³ /4-in. round	256	11⁄8-in. squ
3200 Series	11/2-in. round	1233	1 ³ /4-in. round	263	11/8-in. squ
3300 Series	11/2-in. round	1300	1 ³ /4-in. round	264	11/8-in. squ
498 and 1499	$1^{1/2}$ -in. round	1320 and 1330	1 ³ /4-in. round	265	1 ¹ /2-in. squ
465–1470	1 ³ / ₄ -in. round	1321	1 ³ /4-in. round	271	11/8-in. squ
580	11/2-in. round	1331	1 ³ /4-in. round	272	1 ¹ /8-in. squ
740–1769	1 ³ /4-in. round				
912–1915–1918	$1^{1}/2$ -in. round	1430 and 1440	1 ³ /4-in. round	273/274	1 ¹ /2-in. rou
1901-1904-1907	$1^{1/2}$ -in. round	1431	1 ³ /4-in. round	281	11/2-in. squ
1922-1925-1928	1 ¹ /2-in. round	1434	1 ³ /4-in. round		
921–1924–1927 959–1963–1973	11/2-in. round	1435	1 ³ /4-in. round		
	1 · / 2-iii. Touliu	1441	1 ³ /4-in. round		
Massey Ferguson		1444	13/4-in. round		
MF820	1 ¹ / ₄ -in. square	1541	1 ³ /4-in. round		
MF620	1 ¹ /4-in. square	1544	1 ³ /4-in. round		
MF520	1 ¹ /4-in. square	4211	1 ³ /4-in. round		
MF270	1 ¹ / ₂ -in. square	6010	1 ³ /4-in. round		
MF21	1-in. square	6030	1 ³ /4-in. round		
MF25	1-in. round	Taylor Way			
MF30	1 ¹ /2-in. square	200251-200268	11/2-in. square		
MF39	1-in. round	200108-200118	1 ¹ /8-in. square		
MF40	1 ¹ / ₂ -in. square	200023	1 ¹ / ₈ -in. square		
MF52	$1^{1}/8$ -in. round	200024	1 ¹ /8-in. square		
MF72	1 ¹ /8-in. round	200196-200199	-		
MF120			1 ¹ /8-in. square		
	1 ¹ / ₈ -in. square	2000051-2000068	1 ¹ /8-in. square		
MF220	1 ¹ /8-in. square	200284-200291	11/2-in. square		
MF233	1 ¹ / ₈ -in. square	200310-200315	11/2-in. square		
MF213	1 ¹ /8-in. square	2001 Series	1 ¹ /8-in. square		
Miller		200011	⁷ / ₈ -in. square		
Series I	1 ³ /4-in. round	200013	⁷ / ₈ -in. square		
Series II	1 ³ /4-in. round	200035	1 ¹ /8-in. square		
New Holland		200036	11/8-in. square		
OD100	1 ³ /4-in. round	200037	11/8-in. square		
OD200	1 ³ /4-in. round	200048	1 ¹ /8-in. square		
OD300	2-in. round	200049	1 ¹ /8-in. square		
TD100	1 ³ /4-in. round	2000165	⁷ / ₈ -in. square		
TD200	1 ³ /4-in. round	2000166	⁷ / ₈ -in. square		
Rhino			•		
127/167		2000167	⁷ /8-in. square		
	1 ¹ / ₂ -in. square				
131	11/2-in. square				
137/187	1 ¹ / ₂ -in. square				
177	1 ¹ / ₂ -in. square				
Flex 90	1 ¹ /8-in. 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 **Results**

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





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



Results

Designed for slower planting speeds.Aggressively tills a wider area for a

good seedbed.



25 WAVE Results

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

Tillage Coulter Blades

Part Number	Description	Blade Type	Diamete	er	Thick	ness	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
A17843	Blade, Coulter, 14 Notches	Notched	18	457	0.177	4.5	6
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

Seeding Coulter Blades

Disk Assemblies

- at Nissandar	Decariation	Die de Terre		neter		kness	D.U
art Number B287M	Description	Blade Type	inch	mm	inch	mm D F	Bolts 8
K202M	Blade, Double-Disk Opener	Concave Flat	13.50	342.9 342.9	0.098	2.5 2.5	6
K202IVI K204M	Blade, Double-Disk Opener	Concave	13.50 14.00		0.098	2.5	
	Blade, Semi-Deep			355.6			6
M18600 A36114	Blade, Single Disk Coulter Blade	Concave Flat	13.00 20.38	330.2 517.5	0.083	2.1 4.5	5
			16.25	412.8		4.5 3.0	4
A72361	Disk, Concave Notched	8 Notched			0.118	3.0 5.0	5
A72358	Fertilizer Opener Disk	Flat	15.94	405.0	0.197		-
A72677	Flutted Coulter Blade	13 Flute	15.87	403.0	0.177	4.5	6
A72678	Flutted Coulter Blade	13 Flute	15.87	403.0	0.177	4.5	5
A72679	Flutted Coulter Blade	25 Flute	15.87	403.0	0.177	4.5	6
A72680	Flutted Coulter Blade	25 Flute	15.87	403.0	0.177	4.5	5
A72685	Flutted Coulter Blade	36 Rippled	15.87	403.0	0.157	4.0	4
A72686	Flutted Coulter Blade	8 Flute	15.87	403.0	0.157	4.0	4
A72687	Flutted Coulter Blade	13 Flute	15.87	403.0	0.157	4.0	4
A72688	Flutted Coulter Blade	25 Flute	15.87	403.0	0.157	4.0	4
A72690	Flutted Coulter Blade	8 Flute	14.65	372.0	0.157	4.0	4
A72691	Flutted Coulter Blade	8 Flute	17.56	446.0	0.157	4.0	4
A72692	Flutted Coulter Blade	8 Flute	17.56	446.0	0.157	4.0	4
A72693	Flutted Coulter Blade	13 Flute	17.64	448.0	0.157	4.0	4
A72694	Flutted Coulter Blade	13 Flute	17.64	448.0	0.157	4.0	4
A72698	Flutted Coulter Blade	25 Flute	17.64	448.0	0.157	4.0	4
A72699	Flutted Coulter Blade	25 Flute	17.64	448.0	0.157	4.0	4
A73612	Flutted Coulter Blade	25 Flute	14.65	372.0	0.157	4.0	4
A73615	Flutted Coulter Blade	8 Flute	15.87	403.0	0.177	4.5	5
A73911	Flutted Coulter Blade	8 Flute	15.63	397.0	0.177	4.5	6
A73916	Flutted Coulter Blade	8 Flute	15.00	381.0	0.177	4.5	6
N140342	Flutted Coulter Blade	25 Flute	14.13	358.8	0.157	4.0	4
A34776	Rippled Coulter Blade	60 Rippled	22.36	567.9	0.177	4.5	5
A72360	Rippled Coulter Blade	36 Rippled	15.87	403.0	0.157	4.0	5
A73910	Rippled Coulter Blade	36 Rippled	15.87	403.0	0.157	4.0	6
N262330	Rippled Coulter Blade	60 Rippled	22.19	563.6	0.177	4.5	4
A72357	Seed Opener Disk	Flat	15.00	381.0	0.118	3.0	6
A72359	Seed Opener Disk	Flat	13.50	343.0	0.118	3.0	6
A73831	Seed Opener Disk	Flat	12.00	304.8	0.098	2.5	6
A74203	Seed Opener Disk	Flat	13.50	342.9	0.098	2.5	6

Part	Description	Blade	Diam	eter	Bolts	Blade
Number		Туре	inch	mm		
AN161226	Blade, Assembly with Bearing Case Riveted	Concave	13	305	6	Uses Blade M18600
AA57466	Blade, Assembly, Fertilizer Opener, 13.5-in.	Flat	13.5	343	6	Uses Blade A72359
AA57467	Blade, Assembly, Fertilizer Opener, 13.5-in.	Flat	13.5	343	6	Uses Blade A72359
AA58324	Blade, Assembly	Flat	13.5	343	6	Uses Blade A74199
BB83M	Blade, Assembly with Bearing Double-Disk Opener RH Side	Flat	13.5	343	1	Uses Blade B287M
BB84M	Blade, Assembly with Bearing Double-Disk Opener LH Side	Flat	13.5	343	1	Uses Blade B287M
KK254M	Blade, Assembly for Double-Disk Openers RH	Flat	13.5	343	6	Uses Blade K202M
KK255M	Blade, Assembly for Double-Disk Openers LH	Flat	13.5	343	6	Uses Blade K202M
AM12419	Blade, Assembly with Bearing Case	Concave	14	356	6	Uses Blade K204M
AN161227	Blade, Assembly with Bearing Case Semi-Deep	Concave	14	356	6	Uses Blade K204M
AA55927	Blade, Assembly Tru-Vee Opener, 15-in., 3.0-mm	Flat	15	381	6	Uses Blade A72357
AA53860	Blade, Assembly Tru-Vee Opener, 15-in, 3.5-mm	Flat	15	381	6	Uses Blade A71827

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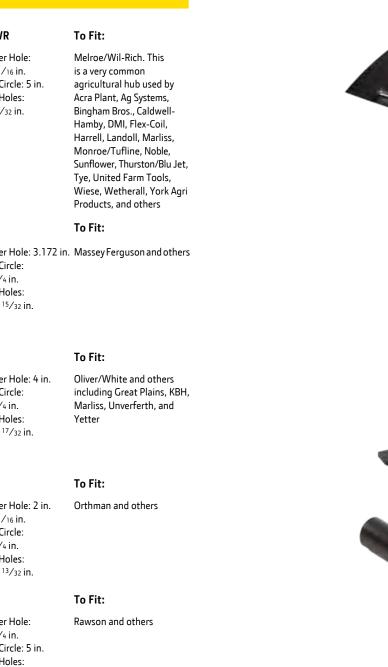
Bolthole Pattern

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	н	To Fit:		MLWR
) 0	Center Hole: 2 ¹ / ₂ in. Bolt Circle: 4 in. Bolt Holes: (4) ¹⁷ / ₃₂ in. Farm Tools, and Wil-Rich/Noble	Hiniker and others includingBlackMachine Brillion, DMI, Glencoe/ Farmland, Haybuster, Landoll, Sukup United	$\circ \bigcirc \circ \\ \circ \\ \circ \\ \circ $	Center Hole: $3^{11}/_{16}$ in. Bolt Circle: 5 in. Bolt Holes: (4) $1^{7}/_{32}$ in.
	IH	To Fit:		
0	Center Hole: ers $3^{1}/_{32} \times$ $1^{11}/_{32}$ in. Bolt Circle: $3^{1}/_{4}$ in. Bolt Holes: (6) $1^{1}/_{32}$ in.	IH older style and oth-	0 0 () 0	MF Center Hole: 3.172 Bolt Circle: 4 ³ /4 in.
С	IHN	To Fit:	0	Bolt Holes: (4) ¹⁵ / ₃₂ in.
0	Center Hole: $1^{1/2}$ in. Bolt Circle: $4^{1/2}$ in. Bolt Holes: (4) $1^{7/32}$ in.	IH newer style and others	0000	OL Center Hole: 4 in. Bolt Circle:
	D	To Fit:	\sim	5 ¹ / ₄ in. Bolt Holes:
0	Center Hole: 2 in. Bolt Circle: 3 ¹ /2 in. Bolt Holes: (6)	John Deere HS and NU bottoms (non-metric) and others including Yetter		(4) ¹⁷ / ₃₂ in.
	JDD	To Fit::	0	Center Hole: 2 in.
) 0	Center Hole: 3 in. Bolt Circle: 4 ³ / ₈ in. Yetter Bolt Holes: (4)	John Deere NU450 Metric bottoms and others including	0 () 0	2 ¹¹ / ₁₆ in. Bolt Circle: 4 ¹ / ₄ in. Bolt Holes: (4) ¹³ / ₃₂ in.
				R
	JDM Center Hole: 2 in. Bolt Circle: 3 ³ /8 in.	To Fit: Kinze and others includingBlackMachine		Center Hole: 3 ³ /4 in. Bolt Circle: 5 in. Bolt Holes: (6) ⁷ /16 in.
0	Bolt Holes: (6)		0	W
			0	



Wetherall and others including Alloway, Kongskilde, Lorenz, Noble, P&H, and Tebben

Combination Scrapers



· Heat-treated.

Rigid Scrapers

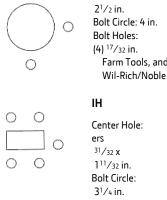
- · Heat-treated.

Heavy-Duty Disk Spools

- blade breakage.

Heavy-Duty Reinforced Sleeve

- Features
 - Thick wall.
 - Drawn I.D.
 - Accurate float
 - High-carbo







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- \bigcirc Center Hole: **2**¹/₂ in. Ο Bolt Circle: 4 in. Bolt Holes: Ο
- To Fit: Rawson and others Circle: 5 in. ⁷/16 in.

Yetter

er Hole:

(4) ¹³/32 in.

To Fit:

Disk Blades and Bearings

 Self-adjusting for sticky soil. • Can be locked tight for light, sandy, or dry soil to prevent wear on

 Positioned to direct soil back, rather than up on gangs. • High-strength steel.

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

• 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

• 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:

and O.D.	
ow.	
on 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 mediumcarbon 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.

1 1/8-in. sq. x 92.19 in.

1 1/8-in. sq. x 101.19 in.

A40826

A40827

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.		

Square Body	Square Head	Square Body	Square Head	Square Body	Square Head
Part number	* Dimesnion	Part number	* Dimesnion	Part number	* Dimesnion
30750	1-in. sq. x 22.50 in.	N241663	1 1/8-in. sq. x 60.08 in.	N217157	1 1/4-in. sq. x 52.76 in.
K1718B	1-in. sq. x 58.38 in.	A10862	1 1/8-in. sq. x 61.00 in.	N217153	1 1/4-in. sq. x 53.44 in.
N189983	1-in. sq. x 74.90 in.	N184523	1 1/8-in. sq. x 62.50 in.	N217155	1 1/4-in. sq. x 54.05 in.
N261792	1 1/8-in. sq. x 6.12 in.	N281323	1 1/8-in. sq. x 62.75 in.	N217152	1 1/4-in. sq. x 55.44 in.
N241638	1 1/8-in. sq. x 7.00 in.	A20615	1 1/8-in. sq. x 65.00 in.	B34224	1 1/4-in. sq. x 56.70 in.
A15143	1 1/8-in. sq. x 10.12 in.	N240687	1 1/8-in. sq. x 67.10 in.	N217156	1 1/4-in. sq. x 58.25 in.
N260928	1 1/8-in. sq. x 10.40 in.	N241664	1 1/8-in. sq. x 67.38 in.	N217156	1 1/4-in. sq. x 60.25 in.
Q437K	1 1/8-in. sq. x 20.19 in.	B12172	1 1/8-in. sq. x 69.75 in.	B13159	1 1/4-in. sq. x 62.00 in.
A20131	1 1/8-in. sq. x 29.00 in.	A20616	1 1/8-in. sq. x 74.00 in.	B34225	1 1/4-in. sq. x 65.80 in.
A20132	1 1/8-in. sq. x 38.12 in.	P70772	1 1/8-in. sq. x 74.33 in.	B34219	1 1/4-in. sq. x 68.36 in.
N241660	1 1/8-in. sq. x 38.23 in.	N240688	1 1/8-in. sq. x 74.35 in.	B13161	1 1/4-in. sq. x 69.80 in.
P55127	1 1/8-in. sq. x 38.27 in.	N241665	1 1/8-in. sq. x 74.73 in.	N262064	1 1/4-in. sq. x 70.24 in.
N281316	1 1/8-in. sq. x 38.75 in.	B12173	1 1/8-in. sq. x 78.06 in.	B34226	1 1/4-in. sq. x 74.90 in.
N281318	1 1/8-in. sq. x 42.75 in.	N240689	1 1/8-in. sq. x 81.60 in.	B13681	1 1/4-in. sq. x 78.38 in.
B10482	1 1/8-in. sq. x 44.38 in.	N241666	1 1/8-in. sq. x 82.03 in.	B34220	1 1/4-in. sq. x 79.36 in.
N240684	1 1/8-in. sq. x 45.35 in.	A20617	1 1/8-in. sq. x 83.00 in.	B34227	1 1/4-in. sq. x 84.00 in.
N241661	1 1/8-in. sq. x 45.48 in.	AP40416	1 1/8-in. sq. x 83.86 in.	B34221	1 1/4-in. sq. x 90.36 in.
N281317	1 1/8-in. sq. x 45.48 in.	B12576	1 1/8-in. sq. x 86.75 in.	A26367	1 1/4-in. sq. x 93.10 in.
A20133	1 1/8-in. sq. x 47.00 in.	N240690	1 1/8-in. sq. x 88.85 in.	A26368	1 1/4-in. sq. x 101.36 in.
P55862	1 1/8-in. sq. x 47.40 in.	N241667	1 1/8-in. sq. x 89.38 in.	A33123	1 1/4-in. sq. x 102.48 in.
N281319	1 1/8-in. sq. x 47.75 in.	A40826	1 1/8-in. sq. x 92.19 in.	N262065	1 1/4-in. sq. x 103.24 in.
N281320	1 1/8-in. sq. x 50.75 in.	N241668	1 1/8-in. sq. x 96.68 in.	A37822	1 1/4-in. sq. x 112.36 in.
B10483	1 1/8-in. sq. x 51.50 in.	A40827	1 1/8-in. sq. x 101.19 in.	N241153	1 1/4-in. sq. x 123.36 in.
N240685	1 1/8-in. sq. x 52.60 in.	P58273	1 1/8-in. sq. x 102.93 in.	B32003	1 1/2-in. sq. x 56.90 in.
N241662	1 1/8-in. sq. x 52.73 in.	A16841	1 1/8-in. sq. x 187.75 in.	B15415	1 1/2-in. sq. x 57.38 in.
B12170	1 1/8-in. sq. x 52.75 in.	B34222	1 1/4-in. sq. x 38.50 in.	B34218	1 1/2-in. sq. x 57.38 in.
N281321	1 1/8-in. sq. x 52.75 in.	B34217	1 1/4-in. sq. x 46.30 in.	B32002	1 1/2-in. sq. x 67.90 in.
N281322	1 1/8-in. sq. x 55.25 in.	P58274	1 1/4-in. sq. x 46.94 in.	B32001	1 1/2-in. sq. x 90.40 in.
A20134	1 1/8-in. sq. x 56.00 in.	B34223	1 1/4-in. sq. x 47.60 in.	A31658	1 5/8-in. sq. x 80.90 in.
B10484	1 1/8-in. sq. x 58.75 in.	N217154	1 1/4-in. sq. x 51.44 in.	N402318	2-in .sq. x 48.27 in.
N240686	1 1/8-in. sq. x 59.85 in.			N242978	2-in. sq. x 49.45 in.
					-

Gang Bolts for John Deere Disks (continued)

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

Square Body	Square Head
Part number	*Dimensions
N242975	2-in. sq. x 55.28 in.
N242979	2-in. sq. x 58.43 in.
N401856	2-in. sq. x 59.29 in.
N242985	2-in.sq. x 62.56 in.
N242980	2-in. sq. x 67.44 in.
N242990	2-in. sq. x 69.84 in.
N242991	2-in. sq. x 70.31 in.
N242976	2-in. sq. x 75.91 in.
N242981	2-in. sq. x 76.46 in.
N243005	2-in. sq. x 77.13 in.
N243007	2-in. sq. x 81.26 in.

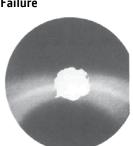
Square Body	Hex Head
Part number	*Dimension
A41971	1-in. sq. x 31.57 in.
A41969	1-in. sq. x 38.70 in.
A41970	1-in. sq. x 47.48 in.
A45919	1-in. sq. x 56.50 in.
N240397	1-in. sq. x 65.50 in.
N240406	1-in. sq. x 67.75 in.

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.



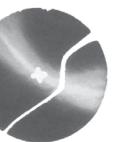
Disk fracture resulting from contact with rocks, stumps, or other solid objects. Credit is not offered.

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

Part number	*Dimensions
N243008	2-in. sq. x 84.68 in.
N242982	2-in. sq.x 85.47 in.
N243155	2-in. sq. x 91.65 in.
N402168	2-in. sq. x 92.44 in.
N242917	2-in. sq. x 93.82 in.
N242983	2-in. sq. x 94.49 in.
N243006	2-in. sq. x 98.94 in.
N242972	2-in. sq. x 102.79 in.
N242984	2-in. sq. x 103.50 in.
N243152	2-in. sq. x 114.33 in.
N400393	2-in. sq. x 125.35
	-

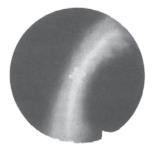
Hex Head Square Body Part number *Dimension 1 1/8-in. sq. x 125.13 in. B11044 B11045 1 1/8-in. sq. x 148.37 in. A16841 1 1/8-in. sq. x 187.75 in. 1 1/2-in. sq. x 50.00 in. AP29932 AP29702 1 1/2-in. sq. x 59.13 in. AP29703 1 1/2-in. sq. x 105.28 in.

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.



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

Bearing with Flange Housing

3 + 1 Seal

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 gualities — 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:

- 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.

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.

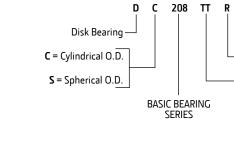
Part	Inside Di	mensions	Outside D	imensions	Outer Race Width in.	Outer Race Width mm
number	inch	mm	inch	mm	wiath in.	wiath mm
AA28184	1.777	45.16	3.346	85	1.187	30.163
AA28186	2.194	55.75	3.937	100	1.312	33.338

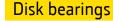
John Deere Maintenance Free Bearing

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	Inside Di	mensions	Outside D	imensions	Outer Race	Outer Race	
number	inch	mm	inch	mm	Width inch	Width mm	
AN241911	2.194	55.75	3.937	100	1.562	39.688	





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.

regard to:

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

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.











a load and rotation. 3) Speed in rpm — rotation.



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.

Feature/Benefit Summary

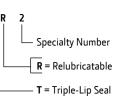
Application tested:







Disk-Bearing Identification Code



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

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

Designed and manufactured to John Deere tolerance requirements:

- Ensures long bearing life.
- Reduces costly machine downtime.
- 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
PMDC208TTR17	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 – 1 ¹ / ₄ SQ	1.250	31.7500	5.000	127.00000	1.687	42.84980
PMFD209RM	FD209 – 11/8 SQ	1.125	28.5750	5.000	127.00000	1.687	42.84980
PMFD211RM	FD211 – 1 ¹ / ₂ 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
PMDC211TTR21	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
PMDS210TTR5R	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
bbreviations:	SQ – Square						

Disk-Bearing Applications

OEM Machine	Replaces	All-Makes Part Number	Bore Size (in.)	Outside Diameter (in.)	Inside Race Width (in.)	Outside Race Width (in.)	Flange Used	Reference	Applications
Amco	10272	JD9248	11∕8 sq.	3.150	1.438	0.709	E62484	W208PPB5	WTD5, WTD6, LFD2, LFDB2, Disk
Amco	10333	PMDS208TT8	1₁∕8 sq.	3.150	1.438	1.188	E62484	W208PPB8	WTD10, WTD3, WTD4 Disk
Amco	11071	PMDC211TT3	1₁∕₂ sq.	3.937	1.313	1.313	—	W211 PP3	516, 517, 518 Disk Harrow
Amco	11079	PMDS208TT6	1 sq.	3.150	1.438	0.709	E62484	W208PPB6	LFBD2, LFB2, LTB
Amco	11503	PMDC211TTR4	11/2 sq .	3.937	1.750	1.313	—	GW21 1 PP4	—
Amco	610333	PMDS208TTR8	11∕8 sq.	3.150	1.438	1.188	AE30794/E50822	GW208PPB8	131/2 Pulverizing D
Amco	610771	PMDS210TTR2	115∕16 sq.	3.543	1.188	1.188	PMG90MSA-ZP/ PMG90MSB-ZP	GW210PPB2R	Disk Harrow
Amco	611071	PMDC211TTR3	1₁∕₂ sq.	3.937	1.313	1.312	_	GW21 1 PP3	WOF3, WOF5, WOF WOJ3, WOJ4, Offs Disk
Athens	—	JD9248	1₁∕ଃ sq.	3.150	1.438	0.709	E62484	W208PPB5	Ridger
Athens	—	JD9350	1₁∕ଃ sq.	3.150	1.438	0.709	—	W208PP5	Ridger
Athens		PMDC211TT3	1₁∕₂ sq.	3.937	1.313	1.313		W211PP3	Levee Plow, 1st Ser
Athens	—	PMDS208TT6	1 sq.	3.150	1.438	0.709	E62484	W208PPB6	—
Athens	—	PMDS211TT6	11/2 sq.	4.125	1.750	1.438	—	W211 PPB6	Levee Plow, 2nd Sei
Athens	—	PMDS211TTR3	1₁∕₂ sq.	3.937	1.313	1.313	AA21005/A22445	GW21 1 PPB3	Disk Harrow, New Ground Disl
Badger	85481014	PMDC211TT5	11/2 sq.	4.00	1.750	1.438	—	W211 PP5	—
BCA	DC208TT5	JD9350	11∕8 sq.	3.150	1.438	0.709		W208PP5	F871, F901, F984 F981,F982 Bedde
BCA	DS208TT5	JD9248	1₁∕ଃ sq.	3.150	1.438	0.709	E62484	W208PPB5	8500, F810H, F850
BCA	DS209TT5	JD8664	11/4 sq.	3.347	1.438	1.188	N166516	W209PPB5	9000 Drill, 4400 Comb
BCA	DS209TTR4	AN240220	1.535 rd.	3.347	1.188	1.188	AE29907/E39751	GW209PPB4	—
BCA	DS211TTR13	AN240221	13/4 rd.	3.968	1.313	0.984	AA21005/A22445	GW211PPB13	—
Blanton		PMDS208TT12	1₁∕ଃ sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	Square Axle Disk
Brillion	9C16	PMDC208TT8	1₁∕ଃ sq.	3.150	1.438	1.185	—	W208PP8	—
Brillion	2.1516	JD9248	1₁∕ଃ sq.	3.150	1.438	0.709	E62484	W208PPB5	_
Brillion	3.1131	PMDS211TT3	1₁∕₂ sq.	3.937	1.313	1.313	EH714360	W211 PPB3	_
Burch	_	PMDS210TT2	115∕16 rd.	3.543	1.188	1.188	H75385	W210PPB2	EZ, EZ-A, EZ-B, 145 Disk, Kwik Se Hippen Ridge
Burch	—	PMDS211TT6	1₁∕₂ sq.	4.125	1.750	1.438	—	W211 PPB6	Super Tandem 1973
Burch	203214	PMDS211TT3	1₁∕₂ sq.	3.937	1.313	1.313	EH714360	W211 PPB3	Offset Disk
Burch	78672A	PMDS211TTR3	1₁∕₂ sq.	3.937	1.313	1.313	AA21005/A22445	GW21 1 PPB3	Offset Disk, Super Tandem
Burch	9554A	JD9350	1₁∕ଃ sq.	3.150	1.438	0.709	—	W208PP5	Ridger, 8 Row
Burch	J9373	JD9248	11∕8 sq.	3.150	1.438	0.709	E62484	W208PPB5	Ridger, E-Z Set, E-2G0, Early
Bush Hog	14-24-16 14-36-183	PMDC208TTR17	11∕8 sq.	3.376	1.438	1.188	_	GW208PP17	1424, 1426, 1432 1435, 1438, 1439 1444 w/11/8-in.
Bush Hog	14-24-63	PMDC208TTR17	11∕8 sq.	3.376	1.438	1.888	—	GW208PP17	1422, 1423, Disk 1-in. Gang Bolt
		DI IDCOOTTI O	1. /	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	Disk Harrow
Bush Hog	14-24-26	PMDS208TT12	1₁∕ଃ sq.	3.430	0.41	1.100	110071013 3 21	W20011 B12	DISK HallOW

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RD – Round

Disk Blades and Bearings

Continued from previous page

OEM Machine	Replaces	All-Makes Part Number	Bore Size (in.)	Outside Diameter (in.)	Inside Race Width	Outside Race Width	Flange Used	Reference	Applications
Bush Hog	14-5-109	PMDS210TT2	115/16 rd.	3.543	(in.) 1.188	(in.) 1.188	H75385	W210PPB2	145
Bush Hog	14-6-430	PMDC211TTR3	11/2 sq.	3.937	1.313	1.313	_	GW21 1PP3	145, 146, 246, 1435 1437
Bush Hog	16-11-176	JD9350	11∕8 sq.	3.150	1.438	0.709	—	W208PP5	W/11/2-in. Gang Bolt Bedder and Rigger
Bush Hog Caldwell	7950006 	JD9350 JD9248	11∕8 sq. 11∕8 sq.	3.150 3.150	1.438 1.438	0.709 0.709	E62484	W208PP5 W208PPB5	11/8 Axle Models
Case	H7474139	JD9350	11/8 sq.	3.150	1.438	0.709	_	W208PP5	Ridger
Case	H747170	PMDS211TT2	23/16 rd.	3.968	1.313	1.313	EH714360	W211 PPB2	Trencher
Case	H747444	PMDC211TT3	11/2 sq.	3.937	1.313	1.313		W211 PP3	Trencher
Case	T15820	PMDS208TT6	1 sq.	3.150	1.438	0.709	E62484	W208PPB6	Smaller Ridger
Case	T25486	PMDS208TT8	11/8 sq.	3.150	1.438	1.188	E62484	K208PPB8	_
Case	T28503	PMDS208TT12	1₁∕ଃ sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	Disk Harrow
Case	T51610	PMDS211TTR3	11/2 sq.	3.937	1.313	1.313	AA21005/ A22445	GW21 1 PPB3	K23, K23A, G59, Disk (Spherical O.D.)
Case	T51653	PMDC211TTR3	1₁∕₂ sq.	3.937	1.313	1.313	—	GW21 1 PP3	E30, 6109, 6110, 6119 K23, K23A Disk Harro
Case	T53781	PMDS210TTR2	115∕16 rd.	3.543	1.188	1.188	PMG90MSA-ZP/ PM90MSB-ZP	GW210PPB2	Disk Harrow
Case	T56688	PMDC211TTR4	11/2 sq.	3.937	1.750	1.313	—	GW21 1 PP4	K23B Disk Harrow
Case	T57559	PMDS211TTR2	23/16 rd.	3.968	1.313	1.313	AA21005/ A22445	GW21 1 PPB2	_
narles Mach.	—	JD9350	11∕8 sq.	3.150	1.438	0.709	—	W208PP5	Trencher
hattanooga	—	JD9248	11∕8 sq.	3.15	1.438	0.709	E62484	W208PPB5	_
hattanooga	_	PMDS211TT6	11/2 sq .	4.125	1.750	1.438	_	W211 PPB6 ~Levi,	Levi-Dyke Plow
Deutz-Allis	—	PMDC211TT3	11/2 sq.	3.937	1.313	1.313	—	W211 PP3	K7 Disk
Deutz-Allis	406677	PMDC211TT5	11/2 sq.	4.00	1.750	1.438	—	W211 PPB5	3100, K, KT, WKT Dis
Deutz-Allis	430478	PMDS209TT2	1.7717 rd.	3.347	1.188	1.188	N166516	W209PPB	Disk Harrow
Deutz-Allis	430480	PMDS211TT2	23/16 rd.	3.968	1.313	1.313	EH714360	W211 PPB2	_
Deutz-Allis	70583939	PMDS211TTR3	11/2 sq.	3.937	1.313	1.313	AA21005/ A22445	GW21 1 PPB3	2600 Disk
DMI	21842400	AN240220	1.535 rd.	3.347	1.188	1.188	AE29907/ E39751	GW209PPB4	_
Dunham	GK260	JD9248	11∕8 sq.	3.150	1.438	0.709	E622484	W208PPB5	Disk Harrow
Dunham	_	PMDS208TT12	11∕8 sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	Disk Harrow (Wide O.R.)
Eversman	261750	JD9248	11∕8 sq.	3.150	1.438	0.709	E62484	W208PPB5	_
Eversman	266740	PMDS208TT12	11/8 sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	_
Farmhand Farmhand	EP5403 610771	PMDC211TTR4 PMDS210TTR2	11/2 sq. 115/16 rd.	3.937 3.937	1.750 1.750	1.313 1.313	PMG90MSA-ZP/ PM90MSB-ZP	GW21 1 PP4 GW21 0PPB2	 Disk Harrow
Farmhand	10771	PMDS210TT2	115/16 rd.	0.543	1.188	1.188	H75385	W210PP132	
Farmhand	IA64318	PMFD209RB	11/2 rd.		_			DHU1- 1/28209	Disk Harrow
Farmhand	IR41009	JD9248	11/8 sq.	3.150	1.438	0.709	E62484	W208PP135	
Farmhand	310072	PMDS209TT2	1.7717 rd.	3.347	1.188	1.188	N166516	W209PPB2	Disk Harrow
Farmhand	340103	PMDS209TT4	1.535 rd.	3.347	1.188	1.188	N166516	W209PPB4	Disk Harrow
Farmhand	7377-1	PMDS211TT3	11/2 sq.	3.937	1.313	1.313	EH71436	W211 PPB3	_
Farmhand	EP6576	AN240220	1.535 rd.	3.347	1.188	1.188	AE29907/ E39751	GW209PPB4	-
Ford	113903	PMDS209TT2	1.7717 rd.	3.347	1.188	1.188	N166516	W209PPB2	204, 210, 224, 230 Disk
Ford	MULCH112SG	PMDS211TT3	11/2 sq.	3.937	1.313	1.313	EH714360	W211 PPB3	236 Cutting Disk
Ford	MULCBB112	PMDC211TT3	11/2 sq.	3.937	1.313	1.313		W211 PP3	219, 223 Cutting Dis

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reviations:	SQ – Square
	RD – Round

Disk-Bear	ing Applicati	ons							
OEM	Replaces	All-Makes	Bore	Outside	Inside	Outside	Flange	Reference	Applications
Machine		Part Number	Size (in.)	Diameter (in.)	Race Width (in.)	Race Width (in.)	Used		
Ford	SBP238481B	PMDS208TTR8	11/8 sq.	3.150	1.438	1.188	AE30794/ E50822	GW208PPB8	241, 242, 243 246 Disk Harrow
Forest City	_	JD9350	11/8 sq.	3.150	1.438	0.709		W208PP5	Ridger
Greenline	_	PMDC211TTR3	11/2 sq.	3.937	1.313	1.313	_	GW21 1 PP3	Disk Harrow
Hardee Mfg.	—	PMDS208TT12	l1∕8 sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	Disk Harrow
Hester Plow	_	JD9350	11∕8 sq.	3.150	1.438	0.709	—	W208PP5	Disk Harrow
IH/Case	1251062091	PMDS209TT2	1.7717 rd.	3.347	1.188	1.188	N166516	W209PP132	_
IH/Case	630210891	JD9448	1₁∕ଃ sq.	3.150	1.438	0.709	E62484	W208PPB5	Ridger
H/Case	958334891	PMDS211TTR2	23/16 rd.	3.968	1.313	1.313	EH714360	W211 PPB2	_
IH/Case	ST491A	PMFD209RA	13/4 rd.	—	_	_	_	DHU1-3/45209	315 Pack-Mulch, 330, 350, 370, 470 475, 480
IMCO	—	PMDS208TT12	1₁∕ଃ sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	Wheel Disk
Kelly	5051001	AN240220	1.535 rd.	3.347	1.188	1.188	AE29907/ E39751	GW209PPB4	—
Kelly	605100	JD9248	11/8 rd.	3.150	1.438	0.709	E62484	W208PPB5	—
Kelly	06A51-001	JD9350	1₁∕ଃ sq.	3.150	1.438	0.709	—	W208PPB	Coulter
Kent	FC0481	PMFD209RB	11/2 rd.	—	-	—	—	DHU1-1/28209	Disk Harrow
Kewanee	6143683	PMDC208TTR17	1₁∕ଃ sq.	3.376	1.438	1.188	—	—	GW208PP17
Kewanee	82055	PMDC211TT3	11/2 sq.	3.937	1.313	1.313	—	W211 PP3	Disk Harrow
Kewanee	82151	PMDS208TTR8	11∕8 sq.	3.150	1.438	1.188	AE30794/ E50822	GW208PPB8	500, 600 Disk
Kewanee	82246	PMDS210TTR4	1₁∕ଃ sq.	3.543	1.188	1.188	PMG90MSA-ZP/ PM90MSB-ZP	W210PPB4	1000 Series Disk thru 1977
Kewanee	B7980/ G0052604	JD9248	1₁∕ଃ sq.	3.150	1.438	0.709	E62484	W208PPB5	206, 400 Disk
Kewanee	88018	JD9350	11∕8 sq.	3.150	1.438	0.709	—	W208PP5	—
Kewanee	61046430	PMDC211TTR3	11/2 sq.	3.937	1.313	1.313	PM87MS-S-ZP	GW21 1 PP3 W208PPB12	KGB, WGH, EZB, MFB, Disk Harrow
King Plow	BB-2N	PMDS208TT12	11/8 sq.	3.438	1.438	1.188	_	None	1900-1928, 2135–2166, 2200 4900 Series Rock F
Krause	1927-11-0	PMCDS209TTR6	1.530 rd	—	-	_	_	None	2400 Series Rock Flex Gang
Krause	2410-11-1	PMCDS211TTR2	13/4 rd.	3.979	2.125	1.335	H75385	W210PPB5	Disk Harrow
Krause	40103	PMDS210TT5	13/4 rd.	3.543	1.188	1.188	PMG90MSA-ZP/ PM90MSB-ZP	GW210PPB5	—
Krause	40-106	PMDS210TTR5R	1.785 rd.	3.543	1.188	1.188	—	DHU1-1/45209	Disk Harrow
Krause Krause	40-128 40102/	PMFD209RK PMDS208TT7	11/4 sq. 13/16 rd	 3.150		 0.709	E62484 N166516	W208PPB7 W209PPB4	Disk Harrow —
Krause	P-212-10-2 40-104/ 412-10-2	PMDS209TT4	1.535 rd.	3.347	1.188	1.188	—	—	-
Krause	40-105	AN240220	1.535 rd.	3.347	1.188	1.188	AE29907/ E39751	GW209PPB4	—
Krause	40-109	PMFD209RB	11/2 rd.	_	_	_	_	DHU1-128209	Disk Harrow
Krause	612-10-2	AN240220	1.535 rd.	3.347	1.188	1.188	AE29907/ E39751	GW209PPB4	Disk Harrow
Landoll	1065010003	AN240220	1.535 rd.		_	_	_	AE29907/ E39751	GW209PPB4
Landoll	1065010011	PMFD209RB	11/2 rd.	—	—	—	—	DHU1-1/28209	Disk Harrow
Long	9-90092	PMDS208TT12	1₁∕ଃ sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	Disk Harrow
Long	9-90241	PMDS211TT6	1₁∕₂ sq.	4.125	1.750	1.438	—	W211 PPB6	958, 959, 960, 1090, Disk Harrov
Long	9-92088	PMDS211TTR3	1₁∕₂ sq.	3.937	1.313	1.313	AA21005/ A22445	GW21 1 PPB3	—

Abbreviations: SQ – Square RD – Round

Continued on next page

Disk-Bearing Applications

OEM

Machine

Replaces

All-Makes

Outside

Diameter

Bore

Inside

Race

Outside

Race

Flange Used Part Size Number (in.) (in.) Width Width (in.) (in.) and 843638M1/ JD9248 1.438 0.709 E62484 W208PPB5 11/8 sq. 3.150 Massey Ferguson 1905666 Bearings 1905678M1 PMDC211TT3 11/2 sq. 1.313 W211 PP3 Massey Ferguson 3.937 1.313 — 447899M1 PMDS208TT12 11/8 sq. 3.438 1.438 1.188 PM87MS-S-ZF W208PPB12 Massey Ferguson Massey Ferguson 4494321V11 PMDS211TTR3 11/2 sq. 3.937 1.313 1.313 AA21005/ GG21 1 PPB3 30, 40, 520, 620, 720, A22445 831960M1 PMDS211TT2 1.313 1.313 EH714360 W211 PPB2 Massey Ferguson 23/16 rd. 3.968 831960M3 PMDS210TT2 115/16 rd. 3.543 1.188 1.188 H75385 W210PPB2 Massey Ferguson 832540M1 PMDS211TT3 1.313 EH714360 W211PP133 3.937 1.313 Massey Ferguson 11/2 sq. 834367M1/ PMDS208TT6 1.438 0.709 Massey Ferguson 1 sq. 3.150 E62484 W208PPB6 1025130 835050M1 PMDS209TT2 1.772 rd. 3.347 1.188 1.188 N166516 W209PPB2 Massey Ferguson 11/4 sq. 1.188 Massey Ferguson 842303M1 JD8664 3.347 1.438 N166516 W209PPB5 1.438 1.188 PM87MS-S-ZF McClesky PMDS208TT12 11/8 sq. 3.438 W208PPB12 1.313 W211 PP132 Melroe 6517957 PMDS211TT2 23/16 rd. 3.968 1.313 EH714360 Moline JD9350 11/8 sq. 3.150 1.438 0.709 W208PP5 _ Moline 20H2152 PMDS209TT2 1.772 rd. 3.347 1.188 1.188 N166516 W209PPB2 1₁∕ଃ sq. 1.438 0.709 Multi Purpose JD9350 3.150 W208PP5 _ _ 1.438 0.709 New Holland NDAS4508BJ JD9248 11/8 sq. 3.150 E62484 W208PPB5 SPB238481B PMDS208TTR8 New Holland 1₁∕ଃ sq. 3.150 1.438 1.188 AE30794/ GW208PPB8 E50822 Oliver 2370928 13/16 rd. 1.188 0.709 E62484 PMDS208TT7 3.150 W208PPB7 Oliver 2384818 PMDS208TTR8 11/8 sq. 3.150 1.438 1.188 AE30794/ GW208PPB8 E50822 13/16 rd. Oliver 30-1005197 PMDS208TT7 3.150 1.188 0.709 E62484 W208PPB7 1.313 W211 PPB3 4404-P PMDS211TT3 3.937 1.313 EH714360 Pico 11/2 sq. 744-P JD9248 11/8 sq. 3.150 1.438 0.709 E62484 W208PPB5 Pico JD8664 3.347 1.438 1.188 N166516 W209PPB5 Piper _ 11/4 sq. JD9350 3.150 1.438 0.709 W208PP5 Piper _ 11/8 sq. _ 1.438 1.188 PM87MS-S-ZP 208PPB12 Rome — PMDS208TT12 1₁∕ଃ sq. 3.438 Shaffer 1.772 rd. 1.188 1.188 W209PPB2 PMDS209TT2 3.347 N166516 — Shaffer PMDS210TT2 115/16 rd. 3.543 1.188 1.188 H75385 W210PPB2 _ PMDS208TT12 1.438 1.188 PM87MS-S-ZP W208PPB12 Southern _ 11/8 sq. 3.438

Disk-Bearing Applications

OEM Machine	Replaces	All-Makes Part Number	Bore Size (in.)	Outside Diameter (in.)	Inside Race Width (in.)	Outside Race Width (in.)	Flange Used	Reference	Applications
Taylor	204147	PMDS208TT12	11∕8 sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	Disk Harrow, Light Duty, 121/2, 19, 21
Taylor	204679	PMDS211TT6	11∕2 sq.	4.125	1.750	1.438	_	W211 PPB6	Disk Harrow, Extra Heavy Duty
Taylor	207022	PMDS211TTR3	11∕2 sq .	3.937	1.313	1.313	AA21005/ A22445	GW21 1 PP133	Disk Harrow, Heavy Duty
Taylor	207359	PMDS208TTR8	11∕8 sq.	3.150	1.438	1.188	AE30794/ E50822	GW208PPB8	20000, Series Disk,
Taylor	606973	JD9350	11∕8 sq.	3.150	1.438	0.709	—	W208PP5	—
Towner		PMDS211TT6	11/2 sq.	4.125	1.750	1.438	_	W211 PPB6	510, 515 Harrow
Towner	15013	PMDS208TT12	11∕8 sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	15013 Rep 1
Tufline	T60	JD9248	11∕8 sq.	3.150	1.438	0.709	E62484	W208PPB5	Disk Harrow, 11⁄8-in. Gang Bolt
Tufline	T602	PMDS208TT12	11∕8 sq.	3.438	1.438	1.188	PM87MS-S-ZP	W208PPB12	Disk Harrow, 11/8-in.
Unverferth	7044	PMDS209TT2	1.7717 rd.	3.347	1.188	1.188	N166516	W209PPB2	Disk Harrow
Unverferth	91134	PMFD209RB	11/2 rd.	_	—	—	_	DHU1-1/28209	Disk Harrow
W & A Mfg.	481217A	PMDC208TTR17	1₁∕ଃ sq.	3.376	1.438	1.188	_	GW208PP17	_
W & A Mfg.	481202	JD9350	11∕8 sq.	3.150	1.438	0.709	_	W208PP5	Ridger and Does More
W & A Mfg.	481213	PMDC211TTR3	11∕8 sq.	3.937	1.313	1.313	_	GW21 1 PP3	_
White	2730928	PMDS208TT7	13/16 rd	3.150	1.188	0.709	E62484	W208PPB7	—
White	W238481B	PMDS208TTR8	1₁∕ଃ sq.	3.150	1.438	1.188	AE30794/ E50822	W209PPB8	_
White	W238813	PMFD209RM	11∕8 sq.	_	_	_	_	DHU1-1/88209	Disk Harrow
Wil-Rich	24677	PMDC208TTR17	11∕8 sq.	3.376	1.438	1.188	—	GW208PP17	_
Wil-Rich	24022	PMDS211TTR2	23∕16 rd.	3.968	1.313	1.313	AA21005/ A22445	GW21 1PPB2	Disk Harrow

Abbreviations: SQ – Square RD – Round

SQ – Square Abbreviations:

Sunflower

Sunflower

Sunflower

Sunflower

Sunflower

Sunflower

Sunflower

Talbot

RD - Round

3091

FK311007

YYB3471

1186

1829

242

24A5301

T151

PMDC211TTR21

PMFD209RK

PMFD209RM

PMDS208TT7

AN240220

AN240221

JD9248

PMDS208TT8

13/4 rd.

11/4 sq.

11/8 sq.

13/16 rd.

1.535 rd.

13/4 rd.

1₁∕ଃ sq.

11/8 sq.

3.937

—

3.150

3.347

3.968

3.150

3.150

1.750

—

1.188

1.188

1.313

1.438

1.438

1.313

—

0.709

1.188

0.984

0.709

1.188

_

E62484

AE29907/

E39751

AA21005/

A22445

E62484

E62484

Continued on next page

Continued from previous page

Applications

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Disk Harow

34MTD and 33 Rev.

Disk

Disk Harrow

27 Flex Disk

Disk Harrow

38, 41, 42 Disk Harrow

21 Disk Harrow '

34, 39, 68, Disk

Harrow

520, 620, Disk Harrow

F228, L150 Harrow

Hipper

Disk Harrow

Ridger

—

_

241, 352, 250 Series

Wheel Disk Harrow

263 Disk

HD Levee Plow, WO

Series Disk Harrow

L0, 175, 185, 200,

206, 250, 300

LT400, 720,

Do-All

Disk Harrow

and Ridger

71/2 Disk Harrow

Disk Harrow

Disk Harrow

Disk Harrow.

13 Pulverizing Disk Gimbal Mount

Unit Insert

Disk Harrow

Disk Harrow

_

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Disk Harrow

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None

DHU1-1/45209

DHU1-1/85209

W208PPB7

GW209PPB4

GW211PPB13

W208PPB5

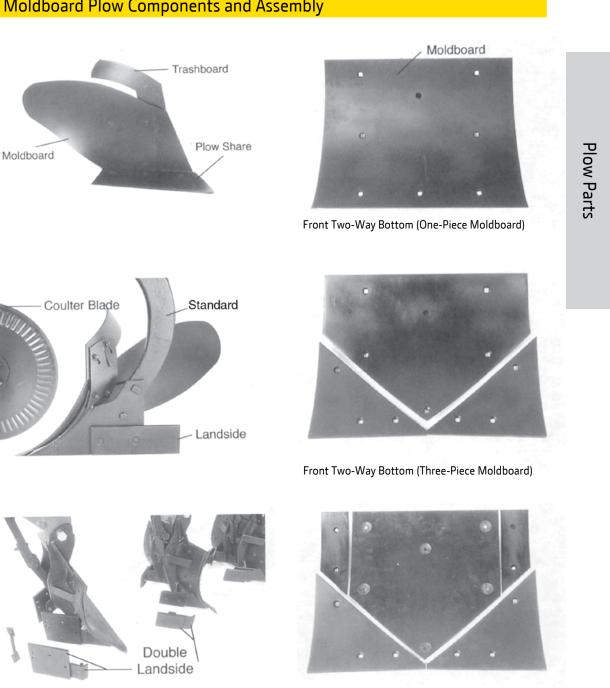
W208PPB8

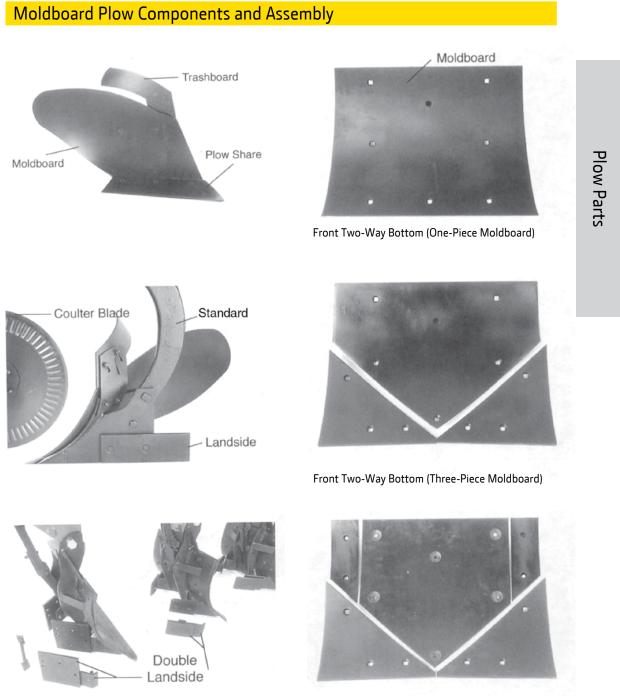
Reference

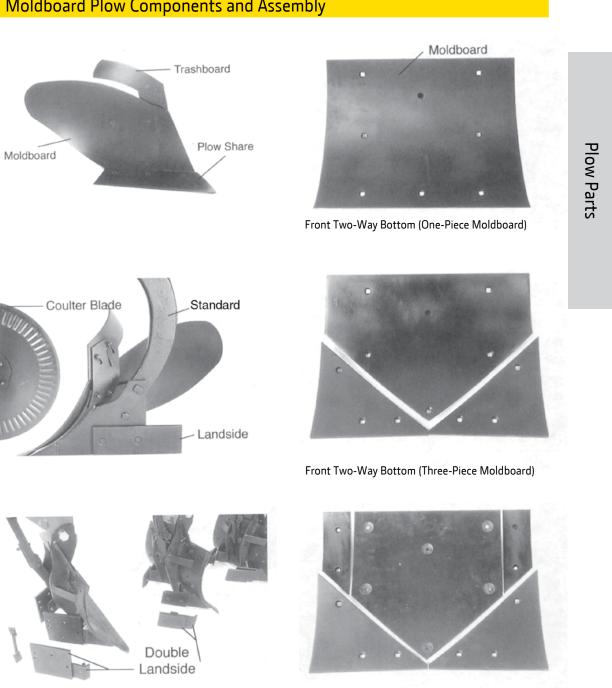
PLOW PARTS

John Deere Moldboard Plow Parts

This moldboard plow parts section provides listings of high-wear plow components. These components reflect John Deere's commitment to quality that provides maximum product life and performance. John Deere design and manufacturing processes, competitive prices, and field-to-parts-counter service deliver added value for our customers.









Front Two-Way Bottom (Five-Piece Moldboard)

Plowshare Features And Benefits

Plowshare Options

Material

- Fine-grain, high-carbon steel meets rigid metallurgical and dimensional specifications.
- · Parts have consistent quality.

Process

- Modern, well-maintained equipment heat-treats, guenches, and tempers these products.
- Hardness levels that maximize wear and minimize breakage are maintained.

Design

Upset Point (Standard Feature on Heavy-Duty Plowshares — One-Way Bottoms Only)

- Extra material is forged into the point.
- This increases product life by reducing replacement intervals.



6

Extended Point

(Optional Feature)

- The extended point is desirable for use in heavy soils.
- · Soil penetration is improved and product life is increased.

Concave and Beveled Back Side

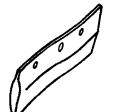
(Standard Feature)

- The back side of the plowshare is concave and beveled.
- This design promotes a continuous self-sharpening edge that minimizes draft and provides excellent soil penetration.

Exclusive Top Ground Edge

(Standard Feature)

- 0 0 0
- John Deere plowshares have an exclusive top ground edge. • A precise fit with the moldboard and shin eliminates gaps and uneven soil flow that reduces scouring and can cause uneven wear patterns.



Lengthwise Twist

(Standard Feature — One-Way Bottoms Only)

- The exclusive lengthwise twist conforms to the shape of the moldboard and lowers the position of the point.
- The twist minimizes draft for smooth soil flow.
- The lower point maximizes soil penetration.



Full Cut Narrow Cut Overcut Extended Point (Gumbo)

Reversible Point (400-mm Long Bottom) Two-Way (Two Points)

Shape Options

Regular Heavy Duty (Upset Point) Hard Faced



1 – Narrow cut, regular

- 3 Full cut, regular
- 5 Overcut, heavy duty
- 7 Full cut, heavy duty, long point, hard faced
- 9 Reversible point share

Performance Characteristics

Use when a standard width of cut is required.

Use when a narrow width of cut is required.

Use when a wide width of cut or complete slicing is required.

Use in heavy soil conditions when penetration in tight, heavy soil is a problem.

Has a reversible and replaceable share point.

Used on reversible (two-way) plows.

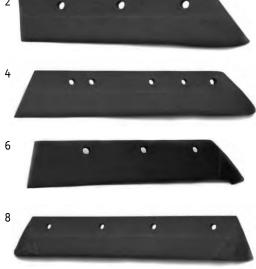
Performance Characteristics

Use where there are few rocks and low-wear soil conditions.

Use in hard-to-penetrate, high-wear conditions.

Use in areas where abrasive soil causes rapid wear of heavy-duty plowshares. Do not use in rocky soil.





2 – Narrow cut, heavy duty

- 4 Full cut, heavy duty
- 6 Full cut, heavy duty, hard faced
- 8 Plowshare

One-Way Moldboard and Shin Features and Benefits

Hardware For Plowshares

Use hardware with the right fit and the designed strength to work with John Deere plowshares.

- Plow bolts with nuts, ⁷/16-in. x 1³/16-in., AA15890 (box of 50)
 Plow bolts with nuts, ¹/2-in. x 1¹/4-in., AA15892(box of 50)
 Plow bolts only, ¹/2-in. x 1³/8-in., A14551 (package of 4)

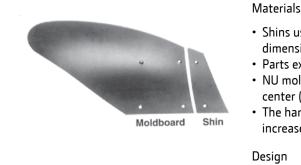
- Plow bolts with nuts. M16 x 34. AA28651 (box of 25)*

*Use with 14H1040 ¹/2-in. heavy-duty nut.

Warranty Information

The John Deere warranty policy covers plowshares for up to 12 months following the date of purchase. A replacement part will be furnished without charge if the part breaks, subject to the established wear guidelines. To determine if the product fits within these warranty guidelines, follow the steps below:

- 1) Measure the perpendicular distance from the center of the first bolthole to the share's edge of ground contact.
- 2) Determine if the share is a metric-dimension share or inch-dimension share:
- Metric-Dimension Shares: If there are 100 mm of product remaining, then the share is warrantable. In other words, there has been only 15 mm of wear.
- Inch-Dimension Shares: If there are 3.5 inches of product remaining, then the share is warrantable. In other words, there has been only a half-inch of wear.



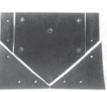
Design

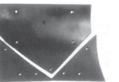
Process

Two-Way Moldboard and Shins

Two-way integral moldboard plows utilize a single set of bottoms that can be positioned right or left. The standard is located directly behind the moldboard, minimizes moldboard flexing, and eliminates the need for three-ply construction.

steel.







Plow Parts

• Shins use ⁵/16-in.-thick high-carbon steel that meets rigid metallurgical and dimensional specifications.

• Parts exhibit consistent quality.

• NU moldboards feature three-ply construction — hard outer layers with a soft center (available on select models).

• The hard outer layer provides long life with maximum polish. The soft center increases flex capability, reducing the potential for breakage.

• Moldboard, shin, and other components are computer designed. • Parts fit perfectly, for longer wear.

• Moldboards and shins are die cut, formed, and guenched in a continuous process. • Each component has a consistent shape and fits precisely with mating components to maintain proper soil flow.

The one-piece moldboard is made from 1/4-in.-thick, heat-treated, high-carbon

A five-piece moldboard is available as a field-installed option. Two additional steel shins are added above the current shins. For use with a smaller plastic moldboard, holes are predrilled in the frog to accept the factory option.

The three-piece moldboard has two options:

Option 1: ⁵/16-in. high-carbon steel for use in abrasive or rocky soil.

Option 2: 1/4-in. plastic to shed sticky soil.

Steel shins are used with both the steel and plastic moldboard.

Landsides and Wedges

35 and 45 Series Integral Plows

One-Way Plows

Landsides and wedges help keep the plow on the "line of draft" and minimize overcutting or undercutting in adverse conditions.

п



	option	T unction		
	Long Landside	Use to minimize overcutting in light soil and/or shallow plowing.		
	Short Landside	Use as required to minimize overcutting.		
	Landside Wedge	Recommended in severe conditions when landside is not enough to prevent overcutting or undercutting.		

Functio



NU1034 Bottom – 14 in. NU1036 Bottom - 16 in. NU1044 Bottom – 14 in. NU1046 Bottom – 16 in. SDT446 Slat Bottom – 16 in.

Plowshares

Description

14-in. Full Cut, Heavy Duty 16-in. Full Cut, Heavy Duty 16-in. Full Cut, Heavy Duty, Hard Faced 16-in. Narrow Cut, Regular 16-in. Narrow Cut, Heavy Duty

Description Frog (NU1036 and NU1046) Moldboard Brace (NU1036 and NU1046) Moldboard Brace (NU1036 and NU1046)

Landside — No. 12			
Description	Part Number		
Heel	A13853		
Landside, Rear	A17550		
Strap	A17552		
Wedge	A13851		

Landside –	— No. 13*
Description	Part Number
Landside	A16493
Wear Plate	A16495
*Use No. 13 Landsi	ide and hardware for r

Cou	lter	B	lad	es
Cou	i c C i		uuu	

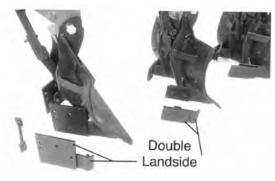
Coulter Blades					
Description	Blade Only Part Number	Serial Number			
17-in. Plain	33131*#	(–1976)			
17-in. Notched	-	(–1966)			
17-in. Rippled	A17093*	—			
Rivet	16H1370*	—			
Cone bearing (–1976). / #Anti-friction bearing.					

Plow Parts

Large Square Landside

Two-Way Plows

Landsides and wedges are used in average-to-soft soil conditions to provide sufficient furrow-wall pressure.



Option	Function		
Landsides and Wedges	Use in average-to-soft soil conditions to provide sufficient furrow-wall pressure.		
Double Landsides	Use in hard soil conditions where furrow- wall pressure is not a problem.		
Square Landside	Use on the rear bottom.		

Trash Boards

Trash boards improve coverage in heavy or tall residue. They are mounted just above and at the leading edge of the plow moldboard to help deflect trash toward the furrow bottom. Slots in the trash-board support bracket provide adjustment for various levels of coverage.

For maximum coverage, set the trash board at the highest setting in the slot on the trash-board support bracket. For less coverage, use the lowest slot in the trash-board support bracket.



Option	Function
Steel	Use in abrasive and nonsticky soils.
Plastic	Use in sticky, nonabrasive soil.

Usage	Part Number	Attaching Hardware
NU1034 and NU1044	A51498	(1) 12H292, (3) 12H325, and (3) AA15890
NU1046 and SDT	A51500	Same as above
NU1036, NU1046, and SDT	A51508	Same as above
NU1036	A10224	Same as above
NU1046 and SDT	A51501	Same as above

Part Number	Attaching Hardware
AA15835	_
A15600	(4) 24H1334, (1) 10H1241, and (1) 14H1047
A15598	(1) A12414 and (1) 14H1047

Attac	hina	Harro	ware
	mg	i iui u	in a c

(3) 14H1047, (1) 24H1346, (1) 15645, (1) 10H1015, (2) 10H1158, (1) 10H1080, (1) 10H1238, (2) 14H1040, (1) 10H1237, and (1) 14H1039 (1) 14H1040, (1) 19H2726, and (1) 12H294

Attaching Hardware

(1) 10H1237, (1) 10H1238, and (2) 14H1040 (1) A16497, (1) A16498, and (2) 14H1047

replacement of the No. 9 Landside.

965, 975, and 995 Reversible On-Land Plows 835, 3945, and 3955 Reversible Integral Plows

Plowshares			
Description	Usage	Part Number	Attaching Hardware
26-in. Two Way, Hard Faced	3835	P59131	(4) 10H1245, (4) 12H293, and (4) 14H813
28-in. Two Way, Regular	965, 975, 995, 3945, and 3955	P59129	(4) AA15890, (4) 12H325, and (4) 14H1047
28-in. Two Way, Hard Faced	965, 975, 995, 3945, and 3955	P59130	Same as above
Frogs			

Description	Usage	Part Number	Attaching Hardware
Frog (Except Rear)	965, 3945, and 3955	AP31247	(3) 19H2228, (3) 12H304, (3) 14H812, (1) P57273, (1) 12H245, and (1) 14H1077
Frog (Rear)	965, 3945, and 3955	AP31246	Same as above
Bushing	965, 3945, and 3955	P57252	(1) 19H1922 and (1) K40014
Frog	975 and 995	AP39473	(2) P66664, (2) 12H234, and (2) 14H1048

Landsides and Wedges

Description	Usage	Part Number	Attaching Hardware
Landside (Except Rear) (6 Bottom)	965	P57046	(2) 10H1073, (2) 12H293, and (2) 14H813
Landside (Rear) (6 Bottom)	965	P57522	(4) 10H1073, (4) 12H293, and (4) 14H813
Landside (Except Rear) (7 Bottom)	965	P57046	(2) 10H1011, (2) 12H293, and (2) 14H813
Landside (Rear) (7 Bottom)	965	P57052	(4) 10H1011, (4) 12H293, and (4) 14H813
Landside (Except Rear)	3835	P57219	(2) 10H1073, (2) 12H293, and (2) 14H813
Landside (Rear)	3835	P57223	(4) 10H1073, (4) 12H293, and (4) 14H813
Landside (Except Rear)	3945	P57046	(2) 10H1011, (2) 12H293, and (2) 14H813
Landside (Rear)	3945	P57052	(4) 10H1011, (4) 12H293, and (4) 14H813
Landside (Except Rear)	975, 995, and 3955	P57046	(2) 10H1073, (2) 12H293, and (2) 14H813
Landside (Rear)	3955	P57052	(4) 10H1011, (4) 12H293, and (4) 14H813
Landside (Rear)	975 and 995	P60071	(2) 10H1159, (1) 14H1047, and (2) 12H293
Wedge (Except Rear)	965	AP31248	(1) 19H2731, (1) 10H1015, (2) 12H293, and (2) 14H813
Wedge (Rear)	965	AP31249	(1) 19H2731, (1) 10H1015, (2) 12H293, and (2) 14H813
Wedge (All Bottoms)	975 and 995	AP31248	(1) 19H2731, (1) 10H1015, (2) 12H293, an (2) 14H813

Moldboards and Shins

Description	Usage	Part Number	Attaching Hardware
Moldboard, Steel	965, 975, 995, 3945, and 3955	P57264	(6) 10H1027, (6) 24H1682, (6) 12H304, and (6) 14H1076
Moldboard, Plastic	965, 975, 995, 3945, and 3955	P60102	(6) P57541, (6) 24H1292, (6) 12H303, and (6) 14H785
Shin (RH)	965, 3945, and 3955	P57266	(3) 10H1027, (3) 24H1682, (3) 12H304, and (3) 14H1076
Shin (LH)	965, 3945, and 3955	P57265	Same as above
Shin (RH), Steel	975 and 995	P59408	Same as above
Shin (LH), Steel	975 and 995	P59409	Same as above
Share Point (RH), Steel	975 and 995	P57266	—
Share Point (LH), Steel	975 and 995	P57265	—
Sheet	8395, 3945, and 3955	P57062	—

Landside — N	No. 14	
Description	Part Number	Attaching Hardware
Landside	A18001	(2) 14H1040, (1) 14H1047, (1) 10H1238, (1) 10H1239, and (1) 10H1158
Adjuster	A15635	(1) 19H2699, (1) 12H293, and (1) 14H1047

Landside — No. 15

Description	Part Number	Attaching Hardware
Landside (RH), Front	A22032	(2) 10H1242, (1) 10H1238, (1) 10H1239, (2) 14H1047, and (2) 14H1040
Wedge	A22031	_

Landside — No. 16

Description	Part Number	Attaching Hardware
Landside (RH), Front	A34336	(2) 10H1242, (1) 10H1238, (1) 10H1239, (2) 14H1047, and (2) 14H1040
Wedge	A22031	—

Moldboards and Shins — NU Bottoms

Description	Part Number	Attaching Hardware
Moldboard (NU1034 and NU1044)	A15595	(7) A12414 and (7) 14H1047
Moldboard (NU1036 and NU1046)	A15596	Same as above
Moldboard Extension (NU1036 and NU1046)	7750A	(AR) 24H1346
Shin (NU1034 and NU1044)	A15593	(2) A12414 and (2) 14H1047
Shin (NU1036 and NU1046)	A51081	Same as above

Shins and Slats — SDT446 Bottom

Description	Part Number	Attaching Hardware
Shin	A14702	(2) A12414 and (2) 14H1047
Slat — 1st	A12402	(4) A12414 and (4) 14H1047
Slat — 2nd	A12404	(2) A12414, (1) 24H1341, and (2) 14H1047
Slat — 3rd	A12406	Same as above
Slat — 4th	A12408	Same as above

Trash Boards

Description	Part Number	Attaching Hardware
Trash Board, Plastic	A36451	(2) A12414 and (2) 14H1047
Trash Board, Steel	A45379	Same as above

Plow Parts

1000 Integral Plow



NU350 Bottom – 14 in. (350 mm)

Plowshares

Description	Part Number	Attaching Hardware
14-in. (350 mm) Full Cut, Regular	A32217	(3) AA28651
14-in. (350 mm) Narrow Cut, Heavy Duty	A42805	Same as above
16-in. (400 mm) Full Cut, Heavy Duty	A42806	Same as above
16-in. (400 mm) Full Cut, Heavy Duty,		
Hard Faced	A42946	Same as above

Part Number

A17093

Coulter Blade Description

17-in.	(430 mm) Rippled	

(3) 191	M3145	and (3) 14M7	274	

Attaching Hardware

Frog		
Description	Part Number	Attaching Hardware
Bolt	A45048	(1) A31869

Landside and Wedges		
Description	Part Number	Attaching Hardware
Landside, Short	A45226	(1) A45223, (1) A45224, and (1) A31869,
Landside, Long	N250286	(1) 14M7276
Landside, Long Rear	A39114	(1) A44246, (1) A31869, and (1) 14M7276
Heel for Long Rear Landside	A13853	(2) A44271, (2) 24M7038, (2) 14M7275, and (1) 15645
Wedge	A36611	(1) A45489, (1) A45488, (1) A31869, and (1) 14M7276

Moldboard and Sh	nin	
Description	Part Number	Attaching Hardware
Shin	A42943	(1) A32044, (2) 14M7275, (1) A32225, and (1) 24M7038

Trash Boards		
Description	Part Number	Attaching Hardware
Bracket (For Plastic Trash Board)	A32216	—
Bracket (For Steel Trash Board)	A32214	—
Trash Board, Plastic	A36451	(2) A32225, (2) 14M7275, and (2) 24M7038
Trash Board, Steel	A45381	(2) A32044, (2) 14M7275, and (2) 24M7038

1150 and 1250 Series Integral Plows 1350 and 1450 Series Semi-Integral Plows



NU1036 Bottom – 16 in. NU1056 Bottom – 16 in. NU1046 Bottom – 16 in. SDT446 Slat Bottom – 16 in. NU1048 Bottom – 18 in.

Plowshares

Description	
16-in. Full Cut, Regular	
16-in. Full Cut, Heavy Duty	NU1046
16-in. Full Cut, Heavy-Duty,	NU1036
Hard Faced	NUTUS
16-in. Narrow Cut, Regular	
16-in. Narrow Cut, Heavy Duty	
18-in. Full Cut, Heavy Duty	
18-in. Full Cut, Heavy Duty, Hard Faced	
18-in. Narrow Cut, Heavy Duty	

Frogs

Description	Part Number	Attaching Hardware
Frog (NU1036, NU1046, and NU1056)	AA15835	_
Frog (NU1048) (–1974)	AA15835	_
Frog (NU1048) (1974–)	AA23791	_
Moldboard Brace (NU1036, NU1046, and NU1056)	A15600	(4) 24H1334, (1) 10H1241, and (1) 14H1047
Moldboard Brace (NU1036, NU1046, and NU1056)	A15598	(1) A12414 and (1) 14H1047
Moldboard Brace (NU1048) (–1974)	A17435**	(1) A17787 and (1) 14H1047
Moldboard Plate (NU1048) (1982–)	A17437	(2) A12414, (4) 14H1047, and (2) A16497
*Use with AA15835 Frog. / **Use with AA23791 Frog.		

Landside — No.	.12
Description	Part Numb
Heel	A13853
Landside, Rear	A17550
Strap	A17552
Wedge	A13851

Coulter Blades (1150 ar

Description	Blade and Hub Part Number	Blade Only Part Number	Serial Number
17-in. Rippled	—	A17093*	—
18-in. Notched	—	A17843 ⁺	(—1976)
20-in. Rippled	—	A17094 ⁺ *	(–1976)
Rivet	_	16H1370*#	_

*Cone-bearing clamp and round shank.

Usage	Part Number	Attaching Hardware
NU1036	A10223	(1) 12H292, (1) AA15892, (3) 12H325, and (3) AA15890
6, NU1056, and SDT	A51500	Same as above
36, NU1046, and SDT	A51508	Same as above
NU1036	A10224	Same as above
SDT	A51501	Same as above
NU1048	A51504	Same as above
NU1048	A51510	Same as above
NU1048	A51505	Same as above

Attaching Hardware

(3) 14H1047, (1) 24H1346, (1) 15645, (1) 10H1015, (2) 10H1158, (1) 10H1080, (1) 10H1238, (2) 14H1040, (1) 10H1237, and (1) 14H1039

(1) 14H1040, (1) 19H2726, and (1) 12H294

nd 1250) (See Parts Catalog for 1350 and 1450)

*Cone bearing (-1973). / *Cone bearing, cushion clamp and round shank (-1976). / †Anti-friction bearing clamp and round shank. /

1600 Integral Plow 2000 Semi-Integral Plow



Plowshares

Description

14-in. (350 mm) Full Cut, Regul 14-in. (350 mm) Narrow Cut, Heavy 16-in. (400 mm) Full Cut, Heavy Duty, H 16-in. (400 mm) Full Cut, Heavy Duty, H 16-in. (400 mm) Long-Bottom Reversible 16-in. (400 mm) Long-Bottom Reversi

Coulter Blades

Description 18-in. (450 mm) Rippled 20-in. (500 mm) Rippled

Frogs

Description Frog (NU400 Bottom) Bolt

Landsides and Wedges

Description
Landside, Short
Landside, Long
Landside, Long (RH), Rear (NU350)
Heel for Rear Long Landside
Landside (16-in. [400 mm] Long Bottom)
Landside Plate (16-in. [400 mm] Long Botton
Wedge

Landside — No. 13* Description Part Number Attaching Hardware Landside A16493 (1) 10H1237, (1) 10H1238, and (2) 14H1040

Wear PlateA16495(1) A16497, (1) A16498, and (2) 14H1047* Use No. 13 Landsides and hardware for replacement of No. 9 Landside.

Landside — No. 14

Description	Part Number	Attaching Hardware
Landside	A18001	(2) 14H1040, (1) 14H1047, (1) 10H1238, (1) 10H1239, and (1) 10H1158
Adjuster	A15635	(1) 19H2699, (1) 12H293, and (1) 14H1047

Landside — No. 15

Description	Part Number	Attaching Hardware
Landside (RH), Front	A22032	(2) 14H1040, (2) 10H1242, (1) 10H1238, (1) 10H1239, and (2) 14H1047
Wedge	A22031	_

Landside — No. 16

Description	Part Number	Attaching Hardware
Landside (RH), Front	A34336	(2) 14H1040, (2) 10H1242, (1) 10H1238, (1) 10H1239, and (2) 14H1047
Wedge	A22031	—

Moldboards and Shins — NU

	Description	Part Number	Attaching Hardware	
	Moldboard (NU1036 and NU1046)	A15596	(7) A12414 and (7) 14H1047	
	Moldboard (NU1048)	A17431	(8) A12414 and (8) 14H1047	
	Moldboard (NU1056)	A20895	(5) A12414 and (5) 14H1047	
I	Moldboard Extension (NU1036, NU1046, and NU1048)	7750A	(1) 24H1346	
	Shin (NU1036, NU1046, NU1048, and NU1056)	A51081	(2) A12414 and (2) 14H1047	

Trash Boards

Description	Part Number	Attaching Hardware
Trash Board, Steel	A45379	(2) A12414 and (2) 14H1047
Trash Board, Plastic	A36451	Same as above

NU350 Bottom – 14 in. (350 mm) NU400 Bottom – 16 in. (400 mm) 16 in. (400 mm) Long Bottom

AA33156

A45048

	Usage	Part Number	Attaching Hardware	
ular	NU350	A32217	(3) AA28651	
vy Duty	NU350	A42805	Same as above	
Duty	NU400	A42806	Same as above	
Hard Faced	NU400	A42946	Same as above	
e Point Share	16-in. (400 mm) Long	A45243	Same as above	
sible Point	16-in. (400 mm) Long	A45244	(2) AA33098	
	Part Number	Attachin	g Hardware	
A33005		(5) A31867 and (5) 19M7744		
A33066		Same as above		
Part Number		Attachi	ng Hardware	

S		
	Part Number	Attaching Hardware
	A45226	(1) A45223, (1) A45224, (1) A31869, and (1) 14M7276
	N250286	Same as above
	A39114	(1) A44246, (1) A31869, and (1) 14M7276
	A13853	(2) A44271, (1) 15645, (2) 24M7038, and (2) 14M7275
om)	A45251	A46551, (1) A46552, and (1) AA33098
ttom)	A45249	(2) 19M7720 and (2) A31869
	A36611	(1) A45489, (1) A31869, (1) A45488, and (1) 14M7276

_

(1) A31869

2600, 2700, 2800, and 2810 Semi-Integral Plows 3600, 3700 (Flex), and 3710 Drawn Plows



Plowshares

Description	Usage	Part Number	Attaching Hardware
14-in. (350 mm) Full Cut, Regular	NU400	A32217	(3) AA28651
14-in. (350 mm) Narrow Cut, Heavy Duty	NU400	A42805	Same as above
16-in. (400 mm) Full Cut, Heavy Duty	NU400	A42806 and A42946	Same as above
18-in. (450 mm) Full Cut, Heavy Duty	NU450	A42808	Same as above
18-in. (450 mm) Full Cut, Heavy Duty, Hard Faced	NU450	A42947	Same as above
18-in. (450 mm) Full Cut, Heavy Duty, Long Point, Hard Faced	NU450	A44851	Same as above
18-in. (450 mm) Narrow Cut, Heavy Duty	NU450	A42807	Same as above
18-in. (450 mm) Overcut, Heavy Duty	NU450	A42809	Same as above
16-in. (400 mm) Reversible Point Share	400 mm Long	A45243	(4) AA33098
16-in. (400 mm) Reversible Point	400 mm Long	A45244	(2) AA33098

Coulter Blades

Description	Part Number	Attaching Hardware
18-in. Rippled (Except 2810 and 3710)	A33005*	(5) A31867 and (5) 19M7744
20-in. Plain	A36114*	Same as above
20-in. Rippled	A33066*	Same as above
22-in. Rippled (Except 2600 and 3600)	A34776#	Same as above
*Cushion and rigid./ #Rigid only.		

Frogs

Description	Part Number	Attaching Hardware
Frog (NU400)	AA33156	—
Frog (NU450)	AA33157	—
Bolt (1982–)	A45048	(1) A31869

Landsides and Wedges

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Moldboards and Shins		
Description	Part Number	Attaching Hardware
Moldboard (NU400 Bottom)	A32210	(3) A32044, (4) 14M7275, (2) 24M7038, and (1) A32225
Moldboard (16-in. [400 mm] Long Bottom)	A45245	(10) AA35634
Moldboard Extension (16-in. [400 mm] Long Bottom)	A46321	—
Eyebolt (16-in. [400 mm] Long Bottom)	A45256	—
Eyebolt Bracket (16-in. [400 mm] Long Bottom)	A45254	—
Shin (NU350 Bottom)	A42943	(1) A32044, (2) 14M7275, (1) A32225, and (1) 24M7038
Shin (NU400 Bottom)	A51080	Same as above
Shin (16-in. [400 mm] Long Bottom)	A45246	(1) AA35634

Trash Boards

Description	Part Number	Attaching Hardware
Trash Boards, Plastic	A36451	(2) A32225, (2) 24M7038, and (2) 14M7275
Trash Boards, Steel	A45381	(2) A32044, (2) 24M7038, and (2) 14M7275
Trash Board (16-in. [400 mm] Long Bottom)	N250313	(2) AA35634 and (2) 24M7038
Bracket for Plastic Trash Board	A32216	_
Bracket for Steel Trash Board	A32214	—
Bracket (16-in. [400 mm] Long Bottom)	N250314	—

NU400 Bottom – 16 in. (400 mm) NU450 Bottom – 18 in. (450 mm) 16-in. (400 mm) Long Bottom

Part Number	Attaching Hardware
N250286	(1) A45223 and (1) A45224
A45226	(1) A31869 and (1) 14M7276
A45251	(1) AA33098, (1) A46551, and (1) A46552
A45249	(2) 19M7720 and (2) A31869
A36611	(1) A45488, (1) 14M7276, (1) A45489, and (1) A31869

Moldboards and Shins		
Description	Part Number	Attaching Hardware
Moldboard (NU400)	A32210	(3) A32044, (4) 14M7275, (2) 24M7038, and (1) A32225
Moldboard (NU450)	A32209	Same as above
Moldboard (16-in. [400 mm] Long)	A45245	(10) AA35634
Moldboard Extension (16-in. [400 mm] Long)	A46321	_
Eyebolt (16-in. [400 mm] Long)	A45256	_
Eyebolt (16-in. [400 mm] Long)	A45254	_
Shin (NU400 and NU450)	A51080	(1) A32044, (2) 14M7275, (1) A32225, and (1) 24M7038
Shin (16-in. [400 mm] Long)	A45246	(1) AA35634

Trash Boards

Description	Part Number	Attaching Hardware
Bracket (For Plastic Trash Board)	A32216	—
Bracket (For Steel Trash Board)	A32214	—
Bracket (16-in. [400 mm] Long)	N250314	—
Trash Board, Plastic	A36451	(2) A32225, (2) 14M7275, and (2) 24M7038
Trash Board, Steel (Except 2810 and 3710)	A45379	(2) A32044, (2) 14M7275, and (2) 24M7038
Trash Board, Steel (2810 and 3710)	A45381	Same as above
Trash Board (16-in. [400 mm] Long)	N250313	(2) AA35634 and (1) 24M7038



NU1046 Bottom – 16 in.

Plowshares

Description

16-in. Full Cut, Heavy Duty (RH) 16-in. Full Cut, Heavy Duty (RH), Hard Faced 16-in. Narrow Cut, Heavy Duty (RH) 16-in. Full Cut, Heavy Duty (LH) 16-in. Full Cut, Heavy Duty (LH), Hard Faced 18-in. Full Cut, Heavy Duty (RH) 18-in. Full Cut, Heavy Duty (RH), Hard Faced 18-in. Narrow Cut, Heavy Duty (RH) 18-in. Full Cut, Heavy Duty (LH) 18-in. Full Cut, Heavy Duty,(LH), Hard Faced

Frogs	
	Description

Description
Frog (RH)
Frog (LH)
Frog (RH) (–1974)
Frog (RH) (1974–)
Frog (LH) (–1974)
Frog (LH) (1974–)
Moldboard Brace (RH)
Moldboard Brace (RH)
Moldboard Brace (LH)
Moldboard Brace (RH) (–1974)
Moldboard Brace (LH) (1974–)
Moldboard Brace (RH)
Moldboard Brace (LH)

Coulter Blades		
Description		
17-in. Rippled		
18-in. Rippled		
18-in. Notched		
20-in. Rippled		
Rivet		
*Cone bearing. / *Antifriction bearing.		

4200, 4600, 8350, and 8450 Series Integral Two-Way Plows

Us	sage	Part Number	Attaching Hardware
NU	1046	A51500	(1) 12H292, (1) AA15892, (3) 12H325, and (3) AA15890
NU	1046	A51508	Same as above
NU	1046	A51501	Same as above
NU	1046	A51503	Same as above
NU	1046	A51509	Same as above
NU	1048	A51504	(1) 12H292, (1) AA15892, (4) 12H325, and (4) AA15890
NU	1048	A51510	Same as above
NU	1048	A51505	Same as above
NU	1048	A51506	Same as above
NU	1048	A51511	Same as above

Usage	Part Number	Attaching Hardware
NU1046	AA15835	_
NU1046	AA15836	-
NU1048	AA15835	—
NU1048	AA23791	_
NU1048	AA15836	_
NU1048	AA23792	_
NU1046	A15600	(4) 24H1334, (1) 10H1241, and (1) 14H1047
NU1046	A15598	(1) A12414 and (1) 14H1047
NU1046	A10517	Same as above
NU1048	A17435**	(1) A17787 and (1) 14H1047
NU1048	A27457#	(1) 10H1241, (AR) 24H1346, and (1) 14H1047
NU1048	A17437	(2) A12414, (4) 14H1047, and (2) A16497
NU1048	A17438	Same as above

Blade and Hub Part Number	Blade Only Part Number	Serial Number
—	A17093*	(–1971)
—	A17842*#	(—1976)
—	A17843#	(—1976)
_	A17094*#	(–1976)
—	16H1370*	

4200, 4600, 8350, and 8450 Series Integral Two-Way Plows (continued)



Ρ	lo	NS	ha	re

Description

16-in. Full Cut, Heavy Duty (RH) 16-in. Full Cut, Heavy Duty (RH), Hard Fac 16-in. Narrow Cut, Heavy Duty (RH) 16-in. Full Cut, Heavy Duty (LH) 16-in. Full Cut, Heavy Duty (LH), Hard Face

Landside — No. 12

Description	Part Number
Heel (LH)	A13855
Heel (RH)	A13853
Landside (LH), Rear	A17551
Landside (RH), Rear	A17550
Strap	A17552
Wedge	A13851

Landside —	- No.	13*
Description		

Description	Part Number	Attaching Hardware	
Landside (LH)	A16494	(1) 10H1237, (1) 10H1238, and (2) 14H1040	
Landside (RH)	A16493	Same as above	
Wear Plate (LH)	A16496	(1) A16497, (1) A16498, and (2) 14H1047	
Wear Plate (RH)	A16495	Same as above	
*Use No. 13 Landsides and hardware for replacement of the No. 9 Landside			

Coulter Blades			
Description	Blade and Hub Part Number	Blade Only Part Number	Serial Number
17-in. Plain	33131*	—	(–1971)
17-in. Rippled	A17093*	—	(–1971)
18-in. Rippled	A17842*#	—	(—1976)
18-in. Notched	A17843#	—	(—1976)
20-in. Rippled	A17094*#	—	(—1976)
Rivet	16H1370*	_	_
*Cone bearing (–1976). / *Antifriction be	aring.		

Landside —	– No.	12	
Description	Usage	Part Number	Attaching Hardware
Heel (RH)	—	A13853	—
Heel (LH)	_	A13855	—
			(3) 14H1047, (1) 24H1346, (1) 15645, (1) 10H1015, (1) 10H1237, (2) 10H1158,
Landside (LH), Rear	—	A17550	(1) 10H1080, (1) 10H1238, (2) 14H1040, and (1) 14H1039
Landside (RH), Rear		A17551	Same as above
Strap		A17552	(1) 14H1040, (1) 19H2726, and (1) 12H294
Wedge		A13851	—

Landside — No. 13*

Description	Part Number	Attaching Hardware
Landside (LH)	A16494	(1) 10H1237, (1) 10H1238, and (2) 14H1040
Landside (RH)	A16493	Same as above
Wear Plate (LH)	A16496	(1) A16497, (1) A16498, and (2) 14H1047
Wear Plate (RH)	A16495	Same as above

*Use No. 13 Landside and hardware for replacement on the No. 9 Landside.

Landside — No. 14

Description	Part Number	Attaching Hardware
Landside (RH)	A18001	(2) 14H1040, (1) 14H1047, (1) 10H1238, (1) 10H1239, and (1) 10H1158
Adjuster	A15635	(1) 19H2699, (1) 12H293, and (1) 14H1047

Landside — No. 15

Description	Part Number	Attaching Hardware
Landside (LH), Front	A22033	(1) 10H1242, (1) 10H1238, (1) 10H1239, (2) 14H1047, (2) 14H1040, and (1) A17787
Landside (RH), Front	A22032	Same as above
Wedge	A22031	_

Landside — No. 16

Description	Part Number	Attaching Hardware
Landside, (LH) Front	A34337	(1) 10H1242, (1) 10H1238, (1) 10H1239, (2) 14H1047, (2) 14H1040, and (1) A17787
Landside, (RH) Front	A34336	Same as above
Wedge	A22031	_

Moldboards and Shins

Description	Usage	Part Number	Attaching Hardware
Moldboard (RH)	NU1046	A15596	(7) A12414 and (7) 14H1047
Moldboard (LH)	NU1046	A51082	Same as above
Moldboard (RH)	NU1048	A17431	(8) A12414 and (8) 14H1047
Moldboard (LH)	NU1048	A17432	Same as above
Shin (RH)	_	A51081	(2) A12414 and (2) 14H1047
Shin (LH)	_	A51082	Same as above
Moldboard Extension (RH)	_	7750A	(–1969) (1) 24H1341 and (1) 24H1346
Moldboard Extension (LH)	_	7749A	(1) 24H1341

Trash Boards

Description	Part Number	Attaching Hardware
Trash Boards (RH), Steel	A45379	(2) A12414 and (2) 14H1047
Trash Boards (LH), Steel	A45380	Same as above
Trash Boards (LH), Steel	A45380	Same as above

SDT446 Slat Bottom – 16 in.

	Part Number	Attaching Hardware
	A51500	(1) 12H292, (1) AA15892, (3) 12H325, and (3) AA15890
ced	A51508	Same as above
	A51501	Same as above
	A51503	(1) 12H292, (1) AA15892, (3) 12H325, and (3) AA15890
ced	A51509	Same as above

Attaching Hardware _

(3) 14H1047, (1) 24H1346, (1) 15645, (1) 10H1015, (2) 10H1158, (1) 10H1080, (1) 10H1238, (2) 14H1040, (1) 10H1237, (1) 14H1039, and (1) 24H1226 Same as above

> (1) 14H1040, (1) 19H2726, and (1) 12H294 ___

Use No. 13 Landsides and hardware for replacement of the No. 9 Landside

4200, 4600, 8350, and 8450 Series Integral Two-Way Plows (continued)



SDT546 Bottom – 16 in.

Plowshares

Description

16-in. Full Cut, Heavy Duty (RH) 16-in. Full Cut, Heavy Duty (RH), Hard Face 16-in. Full Cut, Heavy Duty (LH) 16-in. Full Cut, Heavy Duty (LH), Hard Face

Frogs Description Frog (RH) Brace (RH) Brace (LH)

Landside — No. 12			
Description	Part Number		
Heel (LH)	A13855		
Heel (RH)	A13853		
Landside (LH), Rear	A17551		
Landside (RH), Rear	A17550		
Strap	A17552		
Wedge	A13851		

Coulter Blades

Councer Blades			
Description	Blade and Hub Part Number	Blade Only Part Number	Serial Number
17-in. Plain	—	33131*#	(–1971)
17-in. Rippled	—	A17093*	(–1971)
18-in. Rippled	—	A17842*#	(–1976)
18-in. Notched	—	A17843#	(—1976)
20-in. Rippled	—	A17094*#	(–1976)
Rivet	_	16H1370*	—
*6 1 : (1070) (#4)	····		

*Cone bearing (–1976). / *Antifriction bearing.

Landside — N	o. 14	
Description	Part Number	Attaching Hardware
Landside	A18001	(2) 14H1040, (1) 14H1047, (1) 10H1238, (1) 10H1239, and (1) 10H1158
Adjuster	A15635	(1) 19H2699, (1) 12H293, and (1) 14H1047

Landside — No. 15

Description	Part Number	Attaching Hardware
Landside (LH), Front	A22033	(1) 10H1242, (1) 10H1238, (1) 10H1239, (2) 14H1047, (2) 14H1040, and (1) A17787
Landside (RH), Front	A22032	Same as above
Wedge	A22031	-

Landside — No. 16

Description	Part Number	Attaching Hardware
Landside (LH), Front	A34337	(1) 10H1242, (1) 10H1238, (1) 10H1239, (2) 14H1047, (2) 14H1040, and (1) A17787
Landside (RH), Front	A34336	Same as above
Wedge	A22031	—

Shins and Slats

Description	Part Number	Attaching Hardware
Shin (RH)	A14702	(2) A12414 and (2) 14H1047
Shin (LH)	A14703	Same as above
Slat — 1st (RH)	A12402	(4) A12414 and (4) 14H1047
Slat — 2nd (RH)	A12404	(2) A12414, (1) 24H1341, and (2) 14H1047
Slat — 3rd (RH)	A12406	Same as above
Slat — 4th (RH)	A12408	Same as above
Slat — 1st (LH)	A12403	(4) A12414 and (4) 14H1047
Slat — 2nd (LH)	A12405	(2) A12414, (1) 24H1341, and (2) 14H1047
Slat — 3rd (LH)	A12407	Same as above
Slat — 4th (LH)	A12409	Same as above

Trash Boards

Description	Part Number	Attaching Hardware
Trash Board (LH), Steel	A45379	(2) A12414 and (2) 14H1047
Trash Board (RH), Plastic	A45380	Same as above

	Part Number	Attaching Hardware
	A51500	(1) 12H292, (1) AA15892, (3) 12H325, and (3) AA15890
ed	A51508	Same as above
	A51503	Same as above
ed	A51509	Same as above
	Part Number	Attaching Hardware
	Part Number BA1055A	Attaching Hardware
		Attaching Hardware — (1) A12414 and (1) 14H1047
	BA1055A	_
	BA1055A 8275A	(1) A12414 and (1) 14H1047
	BA1055A 8275A	(1) A12414 and (1) 14H1047
	BA1055A 8275A	(1) A12414 and (1) 14H1047

_ (3) 14H1047, (1) 24H1346, (1) 15645, (1) 10H1015, (2) 10H1158, (1) 10H1080, (1) 10H1238, (2) 14H1040, (1) 10H1237, (1) 10H1039, and (1) 24H1226

> Same as above (1) 14H1040, (1) 19H2726, and (1) 12H294

Reference Guide for Identifying Genuine John Deere Parts

This reference guide is intended to help dealers and customers more easily identify the parts they need for their John Deere plow. Below you will find tables of useful data and/or hints/tips that will help to significantly narrow down the possibilities.

Part Numbers Indicate Number of Boltholes and Shape		
Set of Part Numbers*	Number of Boltholes and Shape	
A10000 Series	4 Boltholes, Regular	
A32000 Series	3 Boltholes, Regular	
A42000 Series	3 Boltholes, Heavy Duty	
A44000 Series	3 Boltholes, Gumbo	
A45000 Series	Number of Boltholes Varies, Long Bottom	
P57000 and P59000 Series	4 Boltholes, Two Way	
A51000 Series	4 Boltholes, Heavy Duty	
*Note: Older plow models will normally require a 4-bolt share, while the newer models typically require a 3-bolt share.		

Bottoms Separated by Number of Boltholes and Length of Top Edge on Share

Boltholes	Plowshare Part Number	Bottom Type	Dimension X on Share	
7	A42808, A44851, A42807, A42809, and A42947	NU450	20.08 in. (510 mm)	
3	A32217, A42805, A42806, and A42946	NU350	17.13 in. (435 mm)	
	A51501	NU1046 and SDT446	1/4 72 in (27/4 mm)	
	A51498	NU1034 and NU1044	14.72 in. (374 mm)	
	A10223	NU1036	16.75 in. (425.5 mm)	
	A51503 and A51509	SDT446, NU1046, and SDT546		
4	A51500	NU1046, NU1056, SDT446, and SDT546	16 (1):= (//22 -===)	
	A51508	NU1036, NU1046, SDT446, and STD546	16.61 in. (422 mm)	
	A51506	NU1048		
	A51511, A51510, and A51504	NU1048	19.76 in. (502 mm)	
	A10224	NU1036	17.25 in. (438 mm)	
6	A45243	16 in. (400 mm) Long	14.96 in. (380 mm)	

Landside — No. 13*	
Description	Part Numbe
Landside (LH)	A16494
Landside (RH)	A16493

A16494	(1) 10H1237, (1) 10H1238, and (2) 14H1040
A16493	Same as above
A16496	(1) A16497, (1) A16498, and (2) 14H1047
A16495	Same as above

Attaching Hardware

*Use No. 13 Landsides and hardware for replacement of the No. 9 Landside.

Description	Part Number	Attaching Hardware
Landside	A18001	(2) 14H1040, (1) 14H1047, (1) 10H1238, (1) 10H1239, and (1) 10H1158
Adjuster	A15635	(1) 19H2699, (1) 12H293, and (1) 14H1047

Landside — No. 15

Wear Plate (LH) Wear Plate (RH)

Description	Part Number	Attaching Hardware
Landside (LH), Front	A22033	(1) 10H1242, (1)10H1238, (1) 10H1239, (2) 14H1047, (2) 14H1040, and (1) A17787
Landside (RH), Front	A22031	Same as above
Wedge	A22031	—

Landside — No. 16

Description	Part Number	Attaching Hardware
Landside (LH), Front	A34337	(1) 10H1242, (1) 10H1238, (1) 10H1239, (2) 14H1047, (2) 14H1040, and (1) A17787
Landside (RH), Front	A34336	Same as above
Wedge	A22031	_

Moldboards and Shins

Description	Part Number	Attaching Hardware
Shin (RH)	A14702	(2) A12414 and (2) 14H1047
Shin (LH)	A14703	Same as above

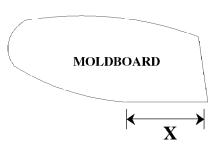
Trash Boards

Description	Part Number	Attaching Hardware
Trash Board (LH), Steel	A45380	(2) A12414, (2) 14H1047, and (2) 24H1226
Trash Board (RH), Steel	A45379	Same as above



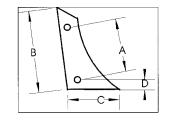
Bottoms Separated by Dimension X on Moldboard							
Type of Bottom	Dimension X on Moldboard						
NU1034 – 14 in.	A15595	7.00 := (100 -===)					
NU1044 – 14 in.	A15595	7.80 in. (198 mm)					
NU1036 – 16 in.	A15596						
NU1046 – 16 in.	A15596 and A15607	10.20 in. (259 mm)					
NU1056 – 16 in.	A20895						
NU1048 – 18 in.	A17431 and A17432	13.11 in. (333 mm)					
NU400 – 16 in. (400 mm)	A32210	10.08 in. (256 mm)					
NU450 – 18 in. (450 mm)	A32209	13.15 in. (334 mm)					
400 mm Long	A45245	Varies					

*Note: These are merely moldboards that could be compatible with your plow. If more than one possibility is listed, it is advised that you reference the page for your specific plow series.

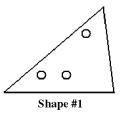


Shin Identification Guide — Part 1

			Drav	/ing Dime	nsions (ir	iches)
Part Number	Plow Bottom Series/Usage	Hardware Needed	Α	В	С	D
A15593	NU1034 and NU1044	(2) A12414 and (2) 14H1047	8.25	12.04	5.81	1.38
A14702	SDT446 and SDT546	(2) A12414 and (2) 14H1047	9.06	12.94	6.22	1.25
A14703	SDT446 and SDT546	(2) A12414 and (2) 14H1047	9.06	12.94	6.22	1.25
A42943	NU350	(1) A32044 and (2) 14M7275 (1) A32225 and (1) 24M7038	8.83	13.47	6.57	1.38
A51081	NU1036, NU1046, NU1048, and NU1056	(2) A12414 and (2) 14H1047	8.77	13.30	6.37	1.25
A51082	NU1046 and NU1048	(2) A12414 and (2) 14H1047	8.77	13.30	6.37	1.25
A51080	NU400	(1) A32044 and (2) 14M7275 (1) A32225 and (1) 24M7038	8.77	13.30	6.37	1.37



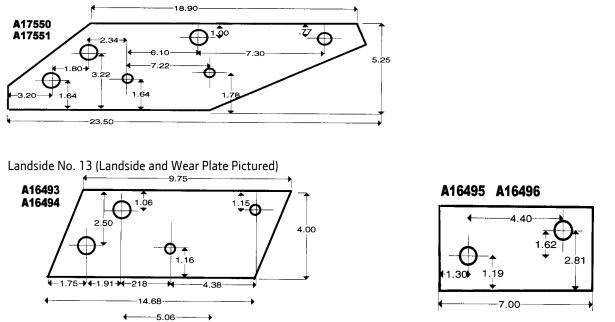
Shin Identification Guid						
Part Number*	Right-/Left-Handed P					
P57266	RH					
P57265	LH					
P59408	RH					
P59409	LH					
A45246	RH					

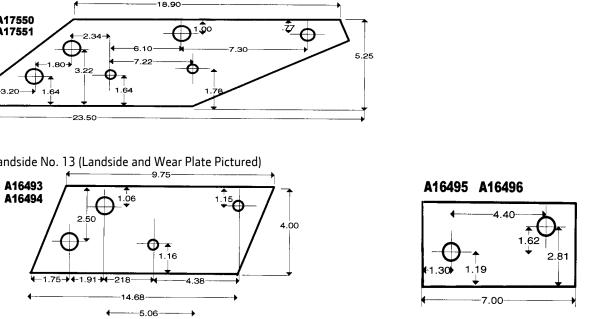


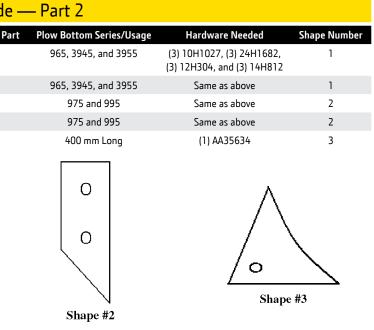
Landside Identification Guide

The following landsides are compatible with one or more of the following bottoms: NU1034, NU1036, NU1044, NU1046, NU1048, SDT446, or SDT546. Please note some part numbers may be for left-handed parts and not compatible with all plows. Reference the page matching the customer's model number to confirm that the proper landside is selected.

Landside No. 12

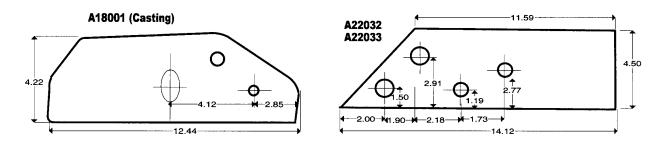




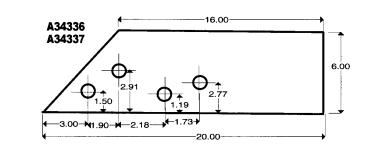




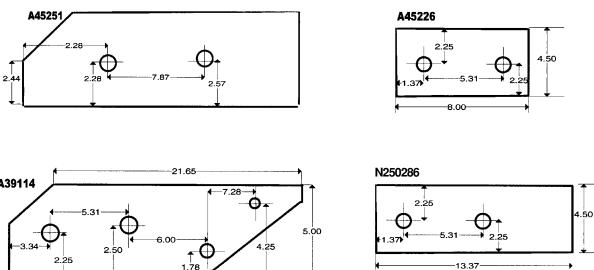
Landside No. 15

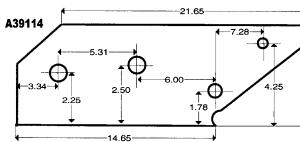


Landside No. 16

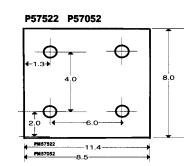


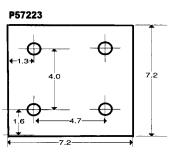
The following landsides are compatible with one or more of the following bottoms: NU350, NU400, NU450, or 400mm long. Reference the page matching the customer's model number to confirm that the proper landside is selected.



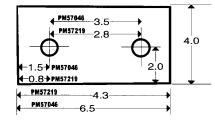


The following landsides are compatible with two-way bottoms for one or more of following plow models: 965, 975, 995, 3835, 3945, and 3955. Reference the page matching the customer's model number to confirm that the proper landside is selected.

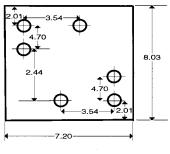




P57046 P57219



P60071

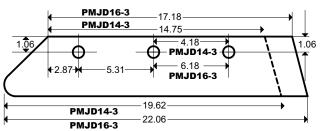


Plow Parts

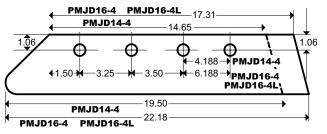
All-makes plow parts and chisel points

J	<mark>ohn Deere</mark>	2			
	Part No.	Description	Plow Bottom Series	Plow Bolt Requirements	Will Replace OEM Number
	PMJD14-3	14-in. Ribbed, 3 Hole (RH)	HS	(3) AA15890	A10005
	PMJD14-4	14-in. Ribbed, 4 Hole (RH)	HS and NU	(1) PMCH1483 and (3) AA15890	A10221 and A51498
	PMJD16-3	16-in. Ribbed, 3 Hole (RH)	HS	(3) AA15890	A10003 and A10007
	PMJD16-4	16-in. Ribbed, 4 Hole (RH)	HS and NU	(1) PMCH1483 and (3) AA15890	A10223, A51500,
	PMJD16-4HF	16-in. Ribbed, Hard Faced, 4 Hole (RH)			A51500, and A51509
ares	PMJD16-4L	16-in. Ribbed, 4 Hole (LH)	HS and NU	(1) PMCH1483 and (3) AA15890	A51503
Shai	PMJD16-4LHF	16-in. Ribbed, Hard Faced, 4 Hole (LH)			COCICA
	PMJD18-5	18-in. Ribbed, 5 Hole (RH)	NU	(1) PMCH1483 and (4) AA15890	A51504, and A51510
	PMJD18-5HF	18-in. Ribbed, Hard Faced, 5 Hole (RH)	NO		ASTSTO, and ASTSTO
	PMJD18-3M	18-in. Metric Ribbed, 3 Hole (RH)	Metric NU450	(4) 03M7198	A42808
	PMJD18-5L	18-in. Ribbed, 5 Hole (LH)	NU	(1) PMCH1483 and (4) AA15890	A51511, and A51506
	PMJD18-5LHF	18-in. Ribbed, Hard Faced, 5 Hole (LH)	NU		ASTSTT, and ASTSOU

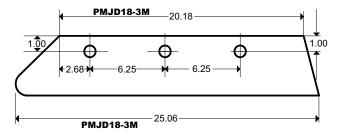
Deere 3-Hole Shares



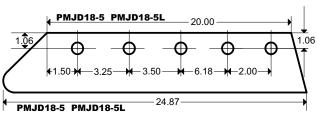
Deere 4-Hole Shares



Deere Metric 3-Hole Shares



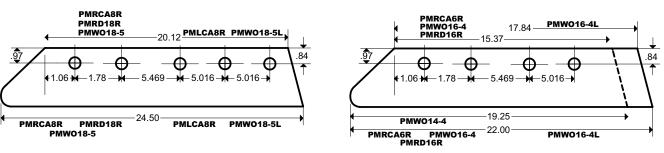
Deere 5-Hole Shares



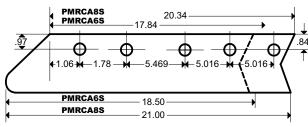
	Part No.	Description	Plow Bottom	Plow Bolt Requirements			Will Replace OEM Number
			Series	Qty.	Size	Bolt No.	
	PMHS14R	Moldboard, 14-in. (RH)	HS	6	⁷ ∕16 x]¹∕4	10H1072	A20700
	PMHS16R	Moldboard, 16-in. (RH)	HS	6	⁷ ∕16 x]¹∕4	10H1072	A20702
ş	PMNU16R	Moldboard, 16-in. (RH)	NU	7	⁷ /16 x] ¹ /4	10H1072	A15596
Moldboards	PMNU16L	Moldboard, 16-in. (LH)	NU	7	⁷ ∕16 x]¹∕4	10H1072	A15607
dblo	PMNU18R	Moldboard, 18-in. (RH)	NU	7	⁷ /16 x] ¹ /4	10H1072	A17431
Σ	PMNU18L	Moldboard, 18-in. (LH)	NU	7	⁷ ∕16 x]¹∕4	10H1072	A17432
	PMMET16R	Moldboard, 400 mm (RH)	Metric NU400	4	12 mm x 30	03M7198	A32210
	PMMET18R	Moldboard, 450 mm (RH)	Metric NU450	4	12 mm x 30	03M7198	A32209

J	l Case				
	Part No.	Description	Plow Bottom Series	Plow Bolt Requirements	Will Replace OEM Number
	PMRCA6S	16-in. Narrow Cut (RH)	White R619	(3) AA15890 and (1) PMCH1483	T63195, and T57749
	PMRCA6R	16-in. Full (RH)	White R619	(3) AA15890 and (1) PMCH1483	T63194, T58108,
	PMW016-4	16-in. Full, Ribbed (RH)	White Rors		and 133068C1
6	PMRD16R	16-in. Full (RH)	White R619	(4) PMCH1483	T58111 and T63197
Shares	PMRCA8S	18-in. Narrow Cut (RH)	White R619	(4) AA15890 and (1) PMCH1483	T63097 and T57750
۲.	PMRCA8R	18-in. Full (RH)	White R619	(4) AA15000 and (1) DMCU1(02	TE0100 and 1227(0001
	PMW018-5	18-in. Full, Ribbed (RH)	vvnite R619	(4) AA15890 and (1) PMCH1483	T58109 and 1337609C1
	PMRD18R	18-in. Full (RH)	White R619	(5) PMCH1483	T58112 and T63133

White 5-Hole Shares



White Narrow Cut Shares



			Plow Bottom Plow Bolt Requirements				
	Part No.	Description	Series	Qty.	Size	Bolt No.	Will Replace OEM Number
	PMEP7490	Shin, 12–18-in. (RH)	White R619	2	⁷ ∕16 x]¹∕4	10H1072	T63099 and T57747
	PMR619-16	Moldboard, 16-in. (RH)	White R619	4	⁷ ∕16 x]¹∕4	10H1072	T57757, T57827, and T63183
	PIVIKO 19-10		vville Kol9	1	⁷ /16 x 1 ¹ /2	10H1073	15//5/, 15/02/, dilu 105105
	PMR619-18	Moldboard 19 in (DU)	White R619	5	⁷ /16 x 1 ¹ /4	10H1072	T63183 and T57757
	PIVIRO 19-18	Moldboard, 18-in. (RH)	White Roly	1	⁷ /16 x 1 ¹ /2	10H1073	163163 and 157757
Other				1	⁷ /16 x 1 ³ /4	10H1158	
ò	PM220787	Landside, Offset (RH)	White R619	1	⁵ /8 x 1 ³ /4	10H1039	T54235
				1	5∕8 x 3	10H1043	
		Landsida Elat (DLI)		1	5/8 x 11/2	10H1059	TE (272
	PM220379	Landside, Flat (RH)	White R619	1	¹ / ₂ x 2	10H1246	T54272
	PM220380	Landside, Pad (RH)	White R619	2	5/8 x 11/2	10H1080	T56680
	PMHS151X	Trash Board (RH)	All Series	2	³ /8 x 1 ¹ /2	10H1028	T54227

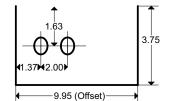
White 4-Hole Shares

4

Allis-Chalmers

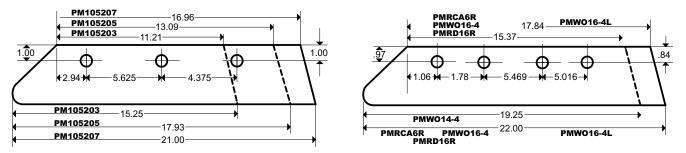
	Part No.	Description	Plow Bottom Series	Plow Bolt Requirements		ements	Will Replace OEM Number
				Qty.	Size	Bolt No.	
Other	PM586758	Landside, Offset (RH)	386 and 387	2	⁷ / ₁₆ x 2 ¹ / ₄	10H1015	568758, 586924, and 70568758

PM586758

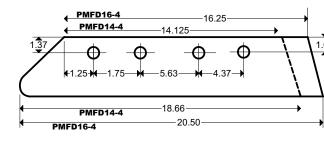


	Ford				
	Part No.	Description	Plow Bottom Series	Plow Bolt Requirements	Will Replace OEM Number
	PM105203	12-in. Full (RH)	General Purpose	(2) AA15890	105203, 104405, and 251419
	PM105205	14-in. Full (RH)	General Purpose	(3) AA15890	105205, 104410, and 251421
	PMFD14-4	14-in. Full, Ribbed (RH)	Heavy Duty or General Purpose	(4) AA15890	7100369, 201579, and 7102454
	PM105207	16-in. Full (RH)	General Purpose	(3) AA15890	105207, 251424, and 104413
s	PMFD16-4	16-in. Full, Ribbed	Heavy Duty or General Purpose	(4) AA15890	7100269, 201579, 7102454, 251428, and 7100370
Shares	PMRCA6S	16-in. Narrow (RH)	White R619 and R625	(3) AA15890 and (1) PMCH1483	219623BS and RCA6S
S	PMRCA6R PMWO16-4	16-in. Full (RH) 16-in. Full, Ribbed (RH)	White R619 and R625	(3) AA15890 and (1) PMCH1483	219617BS and RCA6R
	PMRCA8S	18-in. Narrow	White R619 and R625	(4) AA15890 and (1) PMCH1483	219625BS and RCA8S
	PMRCA8R PMWO18-5	18-in. Full (RH) 18-in. Full, Ribbed (RH)	White R619 and R625	(4) AA15890 and (1) PMCH1483	219619BS and RCA8R
	PMW016-4L	16-in. Full, Ribbed (LH)	White R619 and R625	(3) AA15890 and (1) PMCH1483	SBP219207BS and 251565
	PMW018-5L	18-in. Full, Ribbed (LH)	White R619 and R625	(4) AA15890 and (1) PMCH1483	SBP219210BS and 251566

Ford 2- and 3-Hole Shares

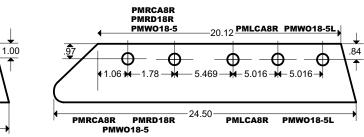


Ford 4-Hole Shares



White 4-Hole Shares



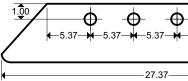


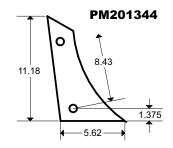
F	Ford (continued)								
	Part No.	Description	Plow Bottom	Plo	w Bolt Requi		Will Replace OEM Number		
		beschption	Series	Qty.	Size	Bolt No.			
	PM201344	Shin, 12-, 14-, 16-, and 18-in. (RH)	General Purpose	2	7/16 x 1 1/4	10H1072	251435, 201344, 112136, and 104403		
	PMEP7490	Shin, 12-, 14-, and 16-in. (RH)	R619 and R419	2	7/16 x 1 1/4	10H1072	251437, SBP-EP7490S, and HR22615A		
	PM220381	Shin, 18-in. HS and 20-in. (RH)	R619 Deep Till	2	7/16 x 1 1/4	10H1072	251439 and SBP2203818S		
	PM217404	Shin, 16- and 18-in. (LH)	White R619	2	7/16 x 1 1/4	10H1072	SBP-217404BS and 251571		
	PM104409	Moldboard, 14-in. (RH)	General Purpose	5	7/16 x 1 1/4	10H1072	201277, 104409, 251440, and 104425		
	PM104412	Moldboard, 16-in. (RH)	General Purpose	5	7/16 x 1 1/4	10H1072	201278, 104412, 251442, and 104426		
	PMR619-16	Moldboard, 16-in. (RH)	White R619	4 1	7/16 x 11/4 7/16 x 11/2	10H1072 10H1073	SPB-HR21800B and 251441		
	PMR619-16L	Moldboard, 16-in. (LH)	White R619	4 1	7/16 x] 1/4 7/16 x] 1/2		SBP-217776BS and 251575		
	PMR619-18	Moldboard, 18-in. (RH)	White R619	5 1	7/16 x 11/4 7/16 x 11/2		SBP-30-1012991 and 251444		
Other	PMR619-18H	Moldboard, 18-in. (RH)	R619 Deep Till	5 1	7/16 x 11/4 7/16 x 11/2		SBP220746B and 251443		
	PM107980	Landside, Short (RH)	General Purpose	4 1	7/16 x 13/4 5/8 x 31/2	10H1158 10H1059	107980 and 251448		
	PM107981	Landside, Medium (RH)	General Purpose	1 1	7/16 x 11/2 5/8 x 31/2	10H1073 10H1059	107981 and 251449		
	PM220787	Landside, Offset (RH)	White R619	1 1 1	7/16 x 13/4 5/8 x 13/4 5/8 x 3	10H1158 10H1039 10H1043	SBP-220787BS and 251454		
	PM220379	Landside, Flat (RH)	White R619	1 1	5/8 x 31/2 1/2 x 2	10H1059 10H1246	SBP-220379B and 251578		
	PM220380	Landside, Pad (RH)	White R619	2	5/8 x 11/2	10H1080	SBP-220380BS and 251580		
	PMHS151X	Trash Board (RH)	General Purpose	2	3/8 x 11/2	10H1028	W219290B and 109241		



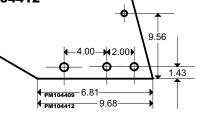
PMH30674 Share, Double Ended

Harrell Shares

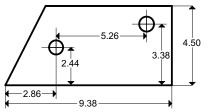


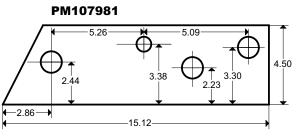


PM104409 PM104412



PM107980

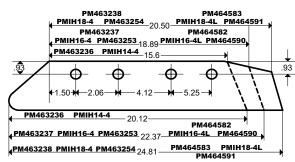


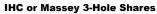


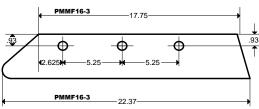
Plow Bottom	Pl	ow Bolt Requi	rements			
Series	Qty.	Size	Bolt No.	Will Replace OEM Number		
2-Way	5	⁷ ∕16 x]¹∕4	A16498	H7900636, 79006, and H79006		
1 1						
$\Phi \Phi \Phi \setminus$						
′ ─₩ ─5.37 ─₩	-5.37-	•	\backslash			

I	HC				
	Part No.	Description	Plow Bottom Series	Plow Bolt Requirements	Will Replace OEM Numbe
	PM463236 PMIH14-4	14-in. Full (RH) 14-in. Full, Ribbed	Super Chief	(3) AA15890 and (1) PMCH1483	463236R1, 463236R2, 463240R1, and 1980953C
	PM463237 PMIH16-4 PMIH16-4HF	16-in. Full (RH) 16-in. Full, Ribbed (RH) 16-in. Full, Ribbed, Hard Faced (RH)	Super Chief	(3) AA15890 and (1) PMCH1483	463237R1, 463237R2, 463241R1, and 19809540
	PMMF16-3	16-in. Full, Ribbed (RH)	Super Chief	(3) PMCH1483	463245R1 and 463229R
	PM463253	16-in. Deep Suck (RH)	Super Chief	(3) AA15890 and (1) PMCH1483	463253R1 and 463253R
Shares	PM464582 PMIH16-4L PMIH16-4LHF	16-in. Full (LH) 16-in. Full, Ribbed (LH) 16-in. Full, Ribbed, Hard Surface (LH)	Super Chief	(3) AA15890 and (1) PMCH1483	464582R1 and 464582R
	PM464590	16-in. Deep Suck (LH)	Super Chief	(3) AA15890 and (1) PMCH1483	464590R1 and 464590R
	PM463238 PMIH18-4 PMIH18-4HF	18-in. Full (RH) 18-in. Full, Ribbed (RH) 18-in. Full, Ribbed, Hard Faced (RH)	Super Chief	(3) AA15890 and (1) PMCH1483	463238R1, 463238R2, and 1980948C1
	PM463254	18-in. Deep Suck (RH)	Super Chief	(3) AA15890 and (1) PMCH1483	463254R1 and 463254R
	PM464583 PMIH18-4L PMIH18-4LHF	18-in. Full (RH) 18-in. Full, Ribbed (RH) 18-in. Full, Ribbed, Hard Faced (RH)	Super Chief	(3) AA15890 and (1) PMCH1483	464583R1 and 464583R
	PM464591	18-in. Deep Suck (LH)	Super Chief	(3) AA15890 and (1) PMCH1483	464591R1 and 464591R

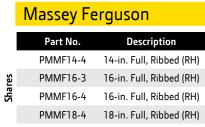
IHC Super Chief 4-Hole Shares

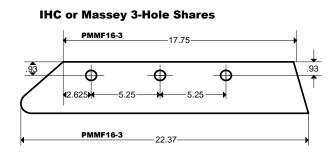


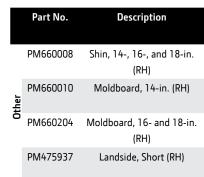




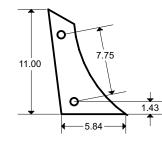
	Part No.		Plow Bottom	Plo	Plow Bolt Requirements		Will Replace OEM Number
		Description	Series	Qty.	Size	Bolt No.	
P	PM522325	Shin, 14-, 16-, and 18-in. (RH)	Super Chief	2	7/16 x 1 1/4	10H1072	132001C11, 522325R1, and 488266R1
P	PM464595	Shin, 16- and 18-in. (LH)	Super Chief	2	7/16 x 1 1/4	10H1072	464595R1, 128410C11, and 55075C
P	PM462314	Moldboard, 16- and 18-in. (RH)	Super Chief	4 1	7/16 x 1 1/4 7/16 x 1 1/2	10H1072 10H1073	462314R1, 1284101C1, 179314A1, 58996C11, and 132000C11
P	PM464603	Moldboard, 16- and 18-in. (LH)	Super Chief	4 1	7/16 x 1 1/4 7/16 x 1 1/2	10H1072 10H1073	464603R1 and 112779C1
	M59057C1	Landside, Medium (RH)	Super Chief	3	7/16 x 1 1/2	10H1073	59057C1, 1980672C1, 522342R1, 522343R1, and 489465R1
声 PI	M1980671	Landside, Medium (LH)	Super Chief	3	7/16 x 1 1/2	10H1073	1980671C1, 522342L, and 522343L
	M59058C1	Landside, Pad (RH)	Super Chief	1 1	7/16 x 2 1/2 7/16 x 1 3/4	10H1237 10H1158	59058C1 and 59058C2
PI	M1980947	Landside, Pad (LH)	Super Chief	1 1	7/16 x 2 1/2 7/16 x 1 3/4	10H1237 10H1158	1980947C1
P	PM464719	Trash Board (RH)	Super Chief	2	3/8 x 1 1/2	10H1028	464719R1
P	PM467817	Trash Board (LH)	Super Chief	2	3/8 x 11/2	10H1028	467817R1

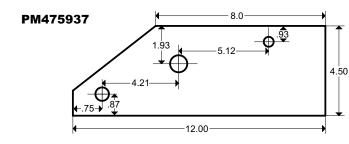






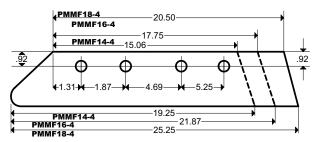
PM660008



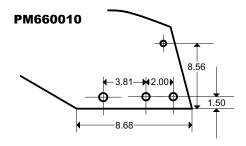


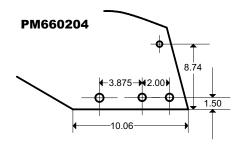
Plow Bottom Series	Plow Bolt Requirements	Will Replace OEM Number
N Heavy Duty	(4) PMCH1483	475161M1 and 475713M1
Ν	(3) PMCH1483	475135M1 and 660208M1
N Heavy Duty	(4) PMCH1483	475167M1 and 475716M1
N Heavy Duty	(4) PMCH1483	475823M1

Massey 4-Hole Shares



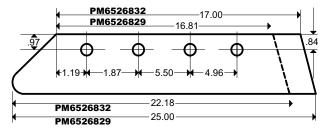
Plow Bottom	Plo	ow Bolt Requi	rements	Will Replace OEM Number
Series	Qty.	Size	Bolt No.	
N & N Heavy Duty	2	7/16 x 11/4	10H1072	660020M1, 1073604M1, and 660008M1
N & N Heavy Duty	5	7/16 x 11/4	10H1072	660022M91, 1073609M1, and 660010M1
N & N Heavy Duty	5	7/16 x 11/4	10H1072	660206M91, 1073616M1, and 660204M1
N & N Heavy Duty	1 2	5/8 x 31/2 7/16 x 11/2	10H1059 10H1073	475937M1



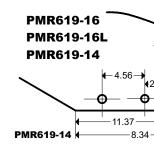


Melrose M	orris			
Part No.	Description	Plow Bottom Series	Plow Bolt Requirements	Will Replace OEM Number
រុ PM6526832	16-in. Full (RH)	GP 806-RR	(4) AA15890	P6526832 and P24988
PM6526829	18-in. Full (RH)	GP 806-RR	(4) AA15890	P6526829 and P24987

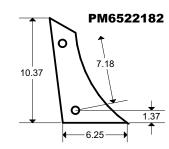
Melroe-Morris Shares



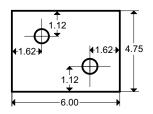
F	Pittsburgh / National / David Brown									
	Part No.	Description	w Bolt Requi	rements	Will Replace OEM Number					
				Qty.	Size	Bolt No.				
L	PMR619-14	Moldboard, 14-in. (RH)	HS, GP, HD, and DV	4 1	7/16 x]1/4 7/16 x]1/2	10H1072 10H1073	28978, HS117, and HS138			
Other	PMR619-16	Moldboard, 16-in. (RH)	HS, GP, HD, and DV	4 1	7/16 x]1/4 7/16 x]1/2	10H1072 10H1073	28979, HS119, and HS139			
	PMEP1300	Landside, Heel, Ref. HS136	HS, GP, HD, and DV	2	1/2 x 2	10H1246	EP1300 and HS115			
	PMHS151X	Trash Board (RH)	HS, GP, HD, and DV	2	3/8 x 11/2	10H1028	HS151			

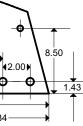


	Part No.	Description	Plow Bottom	Plo	ow Bolt Requir	ements	Will Replace OEM
			Series	Qty.	Size	Bolt No.	Number
5	PM6522182	Shin, 14-, 16-, and 18-in. (RH)	GP 806-RR	1 1	7/16 x 11/4 3/8 x 11/4	10H1072 10H1027	P6522182 and P14617
Other	PM6526852	Landside, Pad (RH)	GP 806-RR	1 1	7/16 x 21/2 7/16 x 13/4	10H1015 10H1158	P6526852 and P6522847
	PMHS151X	Trash Board (RH)	GP 806-RR	2	3/8 x 11/2	10H1028	P6522177



PM6526852

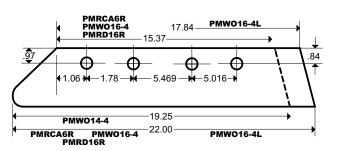




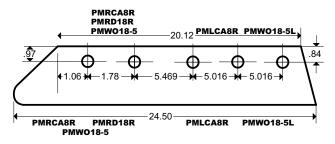
V	<mark>Vhite/Ol</mark>	iver			
	Part No.	Description	Plow Bottom Series	Plow Bolt Requirements	Will Replace OEM Number
	PMW014-4	14-in. Full, Ribbed (RH)	R619, R625, and R919	(3) AA15890 and (1) PMCH1483	219615BS and RCA4R
	PMRCA6S	16-in. Narrow (RH)	R619, R625, and R919	(3) AA15890 and (1) PMCH1483	219623BS and RCA6S
	PMRCA6R PMW016-4	16-in. Full (RH) 16-in. Full, Ribbed (RH)	R619, R625, and R919	(3) AA15890 and (1) PMCH1483	219617BS and RCA6R
	PMRD16R	16-in. Upset (RH)	R619, R625, and R919	(4) PMCH1483	220016B and RD16R
	PMRCA8S	18-in. Narrow (RH)	R619 and R625	(4) AA15890 and (1) PMCH1483	219625BS and RCA8S
Shares	PMRCA8R PMWO18-5	18-in. Full (RH) 18-in. Full, Ribbed (RH)	R619 and R625	(4) AA15890 and (1) PMCH1483	219619BS and RCA8R
	PMRD18R	18-in. Upset (RH)	R619 and R625	(5) PMCH1483	220024BS and RD18R
	PMW016-4L	16-in. Full, Ribbed	R619 and R625	(3) AA15890 and (1) PMCH1483	219207BS and LCA6R
	PMW018-5L	18-in. Full, Ribbed (LH)	R619 and R625	(4) AA15890 and (1) PMCH1483	219210BS and LCA8R

Plow Parts

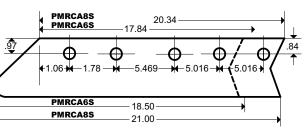
White 4-Hole Shares



White 5-Hole Shares

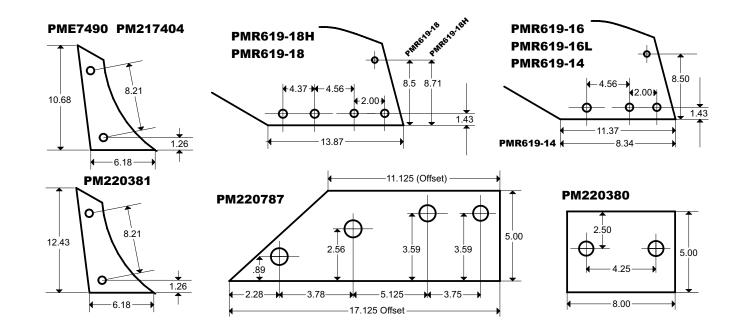


White Narrow Cut Shares



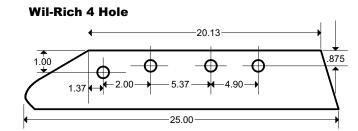
White/Oliver (continued)

	Part No. Description Plow Bottom Se		Plow Bottom Series	Pl	ow Bolt Requi	rements	Will Replace OEM Number
				Qty.	Size	Bolt No.	
	PMEP7490	Shin, 12-, 14-, and 16-in. (RH)	R619, R719, and 419	2	7/16 x 1 1/4	10H1072	WEP7490C and HR22615A
	PM220381	Shin, 18-in. HS and 20-in. (RH)	R619 Deep Till	2	7/16 x 1 1/4	10H1072	W220381BS
	PM217404	Shin, 12-, 14-, 16-, and 18 in. (LH)	R619, R719, and R419	2	7/16 x 1 1/4	10H1072	W217404BS
	PMR619-14	Moldboard, 14-in. (RH)	R619	4 1	7/16 x]1/4 7/16 x]1/2	10H1072 10H1073	WHR21799B
	PMR619-16	Moldboard, 16-in. (RH)	R619	4 1	7/16 x]1/4 7/16 x]1/2	10H1072 10H1073	WHR21800B
	PMR619-16L	Moldboard, 16-in. (LH)	R619	4 1	7/16 x]1/4 7/16 x]1/2	10H1072 10H1073	W217776BS
	PMR619-18	Moldboard, 18-in. (RH)	R619	5 1	7/16 x]1/4 7/16 x]1/2	10H1072 10H1073	30-1012991
	PMR619-18H	Moldboard, 18-in., High Speed (RH)	R619 Deep Till	5 1	7/16 x]1/4 7/16 x]1/2	10H1072 10H1073	W220746BS
Other	PM220787	Landside, Offset (RH)	R619 and R719	1 1 1	7/16 x 13/4 5/8 x 13/4 5/8 x 3	10H1158 10H1039 10H1043	W220787B
đ	PM220379	Landside, Flat (RH)	R619 and R719	1 1	5/8 x 31/2 1/2 x 2	10H1059 10H1246	W220379B and 22-379B
	PM220380	Landside, Pad (RH)	R619 and R719	2	5/8 x 11/2	10H1080	W220380B
	PMEP1300	Landside, Heel, Ref. HS136	R619 and R419	2	1/2 x 2	10H1246	WEP1300B
	PMHS151X	Trash Board (RH)	All Series	2	3/8 x 11/2	10H1028	W219290B

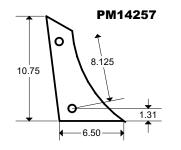


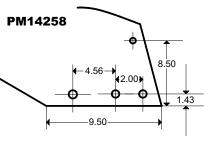
Bolts and Shares

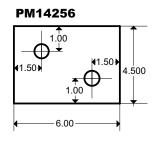
Wil-Rich				
Part No.	Description	Plow Bottom Series	Plow Bolt Requirements	Will Replace OEM Number
PM14255	18-in. Full (RH)			
PMWR18-4	18-in. Full, Ribbed (RH)	General Purpose	(4) PMCH1483	14255 and 215806
PMWR18-4HF	18-in. Full, Ribbed, Hard Faced (RH)		

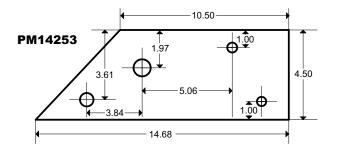


			Plow Bottom	Plo	w Bolt Requi	rements	Will Replace OEM	
	Part No.	Description	Series	Qty.	Size	Bolt No.	Number	
	PM14257	Shin, 16- and 18-in. (RH)	General Purpose	2	7/16 x 1 1/4	10H1072	14257 and 213022	
	PM14258	Moldboard, 16- and 18-in. (RH)	General Purpose	5	7/16 x 1 1/4	10H1072	14258, 21589, and 215177	
Other	PM14253	Landside (RH)	General Purpose	1 1	5/8 x 31/2 7/16 x 11/2	10H1059 10H1073	14253 and 215111	
	PM14256	Landside, Pad (RH)	General Purpose	1 1	7/16 x 21/2 7/16 x 13/4	10H1015 10H1158	14256 and 215225	
	PMHS151X	Trash Board (RH)	General Purpose	2	3/8 x 11/2	10H1028	14649	









Clipped Head (packaged 50 per box w	vith nut)
Description	Part Number
7/16- x 11/4-in. (RH)	AA15890
¹ / ₂ - x 1 ¹ / ₄ -in. (RH)	PMCH1483
¹ /2- x 1 ¹ /2-in. (RH)	PMCH1500

PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE	PART NUMBER	PAGE								
15645	61, 64,	10H1237	12, 13,	14H785	63	43CP16TW	12	A15600	61, 65,	A20134	44	A36292	37	A45246	68, 70,	A72361	41	AA57467	41
	65, 67,		61, 65,	14H812	11, 63,	43CP18TW	12		71	A20615	44	A36293	37		79	A72677	41	AA58324	41
	72, 73, 75		66, 72, 73, 75,		79	47CP014	13	A15607	78	A20616	44	A36451	62, 64,	A45249	67, 69	A72678	41	AM12419	41
22877	36		76, 88	14H813	11, 17,	47CP016	13	A15635	62, 66, 72, 74, 76	A20617	44		66, 68,	A45251	67, 69,	A72679	41	AN142663	19
30750	44	10H1238	14, 61,		18, 63	47CP018	13	A16493	61, 66,	A20895	66, 78		70		81	A72680	41	AN142664	19
33124	40		62, 65,	14H931	19, 20	7749A	72		72, 73,	A22031	62, 66,	A36611	64, 67, 69	A45254	68, 70	A72685	41	AN161226	41
33131	40,61,		66, 72, 73, 74,	14H960	12, 13, 14, 17	7750A	62, 66,		76, 79	A22031	72, 74,	A37822	44	A45256	68, 70	A72686	41	AN161227	41
10100	73, 75		75, 76	14M7274	64		72	A16494	72, 73, 76, 79		76			A45379	62, 66,	A72687	41	AN181518	18, 21
03H1528	18	10H1239	14, 62,	14M7275	64, 67,	8275A	75	A16495	61, 66,	A22032	62, 66,	A38558	36		70, 72, 74, 76	A72688	41	AN181519	21
03H1746	20		66, 72,		68, 70,	A10223	65, 77	A10495	72, 73,		72, 74, 80	A38641	16	A45380	72, 74,		_		
03M7198	82	10112/1	74, 76		78	A10224	61, 65,		76, 79	A22033	72, 74,	A38642	16		76	A72690	41	AN181520	18, 21
09H1761	18	10H1241	61, 65, 71	14M7276	64, 67,		77	A16496	72, 73,	122033	76, 80	A38658	36	A45381	64, 68,	A72691	41	AN181521	18, 21
09H1765	18	10H1242	62, 66,	1/147500	69	A10517	71, 75		76, 79	A26367	44	A39114	64, 67,		70	A72692	41	AN231685	26
		10111212	72, 74,	14M7589	27	A10862	44	A16497	61, 65, 66, 71,	A26368	44	420177	81	A45488	64, 67,	A72693	41	AN231772	20
10H1011	63		76	16H1370	61, 65, 71, 73,	A12402	62, 66		72, 73,	A27457	71	A39177	37		69	A72694	41	AN231773	20
10H1015	61, 63, 65, 72,	10H1245	63		75	A12402	74		76	A27767	36	A39178	37	A45489	64, 67,	A72698	41	AN231774	20
	73, 75,	10H1246	83, 86,	19H1922	63	A12403	74	A16498	61, 66,	A27768	36	A39548	37	A45919	69 45	A72699	41	AN231775	20
	84,90,94		91, 93	19H2228	63	A12404	62, 66,		72, 73, 76, 87	A28610	36	A39551	36			A73612	41	AN231796	14
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	90	12H245	63		72, 74,	A12405	74			A31867	67, 69	A40827	44	A46551	67, 69	A73831	41	AN232009	19
10H1028	83, 86, 88, 90,	12H292	61, 65,		76	A12406	62, 66,	A17093	40, 61, 64, 65,	A31869	64, 67,	A41969	45	A46552	67, 69	A73910	41	AN232010	19
	91, 93,		71, 73, 75	19H2726	61, 65,		74		71, 73,		69	A41970	45	A47237	36	A73911	41	AN232011	19
	94	12H293	17, 62,		72, 73, 75	A12407	74		75	A31998	36	A41971	45	A47238	37	A73916	41	AN232013	21
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	86, 93		72, 74,	19H3057	14	417600			71, 73, 75		70, 78	A42805	64, 67,	A49254	36	AA15835	61, 65,	AN234096	21
10H1043	83, 86, 93	121120/	76	19M3145	63	A12409	74	A17431	66, 72,	A32209	70, 78	4/2006	69, 77	A51080	68, 70,		71	AN234097	21
10H1055	75	12H294	61, 65, 72, 73,	19M7481	27	A12414	61, 62, 65, 66,		78	A32210	68, 70,	A42806	64, 67, 69, 77		78	AA15836	71	AN234098	21
10H1059	83, 86,		75				71, 72,	A17432	72, 78		78	A42807	69, 77	A51081	62, 66, 72, 78	AA15890	58, 61,	AN234099	21
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