

2018-2019 PARTS CATALOG

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- Planter/Grain Drill Discs
- Hoe Drill Points
- Disc Ripper Points
- Chisel Points & Spikes

- Tillage Sweeps
- Undercutter V-Blades
- Long Wear Chrome Carbides
- DMR Openers & Parts

- Baler Belts
- Fertilizer Knives, Shanks & Blades
- Milo Guards & Crop Savers
- EZE-Latch for Trailers

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- Pricing is subject to change without notice
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- Availability can change due to original manufacturer production schedules
- Customer is responsible for any local or state retail sales taxes that might apply

Index

Page	Products
1	Coulter blades for fertilizer and tillage machines
2	Concave disc harrow blades
3	Planter and drill disc assemblies
4	Undercutter V-blades (sweep plow)
5	V-blade identification chart
6	Field cultivator sweeps and chisels, hardware
7	Chisel and fallowmaster/fallow king sweeps
8	Disc Ripper CRP product information
9	Conservation Ripper Point CRP product listing for most disc rippers
10--11	Chrome carbide VPS and Orthman, Krause subsoiler and strip till points
12	Chrome carbide subsoiler/ripper points for other makes
13	Chrome carbide BluJet subsoiler points
14	Shank Repair parts
15	Acra-Plant hoe drill points and replacement hoe drill shoes
16	Acra-Plant V-Shot in-furrow product information
17	Acra-Plant V-Shot kit part numbers by planter model
18	Acra-Plant V-Slice inserts
19	Chrome carbide Danish tyne and field cultivator sweeps
20	Fertilizer toolbar row units, berm builders and NH3 disc sealers
21	Fertilizer shanks and shank mounts
22	Acra-Plant fertilizer knives and chisel plow applicator knives and points
23	Chisel Plow and Deep Furrow (MOLE) Knives
24	Conventional and Side Dress Knives
25	Front-swept and Min-Till / No-Till knives
26	Sweep tubes for applying fertilizer with chisels and sweeps
27	Plow bolts and bulk hardware
28--29	U-bolts
30	Pry bars
31--42	Milo guards and crop savers
43	Baler belts



TillagePartsDirect.com

BOLD HIGHLIGHTED COLUMNS ARE MOST IMPORTANT FOR IDENTIFYING BLADES

SHIELD BLADES 17"---27" IDENTIFICATION CHART

Part Number	Diameter	STYLE	Center hole	THICK MM	THICK Inches	Bolt Circle	# of Bolt holes	Bolt hole diameter	Weight lbs	Retail Price	TYPICAL USE
17FLYET CLT	17"	Crucible Fluted	4"	4.5	0.177	5.25"	4	0.53	11.88	\$40.32	Fertilizer
17WB COMBO	17"	12-wave 3/4" overall wave height	3-11/16"	4.5	0.177	5.0" & 5.25"	8	0.53	11.88	\$45.88	Sealer
17WB CLOSER	17"	12-wave 3/4" overall wave height	1-25/32"	4.5	0.177	5.0"	4	.53 SQ	11.88	\$45.88	Sealer
18 DB11-NO	18"	18" Dalton Notched Sealer	2-1/4"	3.5	0.138	4.0"	4	0.44	8.80	\$33.99	Sealer
18DD6-3	18"	Smooth, Deere 1800-series Air seeder	3.03	5.0	0.197	4.4"	4	10mm	13.00	\$27.76	Air Seeder
20FL CLT	20"	Fluted	3-11/16"	4.5	0.177	5"	4	0.53	16.28	\$32.29	Tillage
20FL ORTH	20"	Fluted	2-49/64"	4.5	0.177	4.3	4	0.41	16.28	\$32.29	Tillage
20FL COMBO	20"	Fluted	3-11/16"	4.5	0.177	5.0" & 5.25"	8	0.53	16.28	\$32.29	Fertilizer
20NO COMBO	20"	Notched	3-11/16"	4.5	0.177	5.0" & 5.25"	8	0.53	16.28	\$33.99	Fertilizer
20FLYET CLT	20"	Crucible Fluted	4"	4.5	0.177	5.25	4	0.53	16.28	\$33.42	Tillage
20FLC COMBO	20"	Crucible Fluted	3-11/16"	4.5	0.177	5.0" & 5.25"	8	0.53	16.28	\$33.14	Fertilizer
20PL COMBO	20"	Smooth	3-11/16"	4.5	0.177	5.0" & 5.25"	8	0.53	16.28	\$30.59	Fertilizer
20PL CLT	20"	Smooth	3-11/16"	4.5	0.177	5	4	0.53	16.28	\$32.29	Tillage
20WB8 COMBO	20"	8-WAVE 1-3/4" overall wave height	3-11/16"	4.5	0.177	5.0" & 5.25"	8	0.53	16.28	\$44.18	Fertilizer
20WB12 COMBO	20"	12-WAVE 3/4" overall wave height	3-11/16"	4.5	0.177	5.0" & 5.25"	8	0.53	16.28	\$44.18	Fertilizer
20WB20-COMBO	20"	20-Wave Spirial wave	3-11/16"	4.5	0.177	5.0" & 5.25"	8	0.53	16.28	\$44.18	Fertilizer
20VT-COMBO	20"	25-wave, Z-wave, 1/2" overall height	3-11/16"	5.0	0.197	5.0" & 5.25"	8	0.53	18.10	\$40.46	Fertilizer
20DD6-3	20.4"	Smooth, JD Cultivator Blade, N216270	3-1/32"	4.5	0.177	4.4"	4	0.40	17.00	\$48.91	Tillage
22FL CLT	22"	Fluted	4"	4.5	0.177	5.5	5	0.53	19.80	\$40.22	Tillage
22PL CLT	22"	Smooth	4"	4.5	0.177	5.5	5	0.53	19.80	\$32.29	Tillage
24PL CLT	24"	Smooth	4"	4.5	0.177	5.5	5	0.53	26.18	\$50.41	Tillage
24PL COMBO	24"	Smooth	3-11/16"	5.0	0.197	5.0" & 5.25"	8	0.53	26.18	\$45.88	Fertilizer
24PLDBJ CLT	24"	Smooth	3-11/16"	5.0	0.197	5.0"	4	0.53	26.18	\$45.88	Fertilizer
25PL-CLT6	25"	Smooth, Krause Gladiator	3-11/16"	6.0	0.236	5"	4	0.53	31.00	\$94.88	Strip Till
27PL6 CLT	27"	Smooth Orthman	4-1/16"	6.0	0.236	5.5	5	0.53	33.13	\$54.95	Orthman
KSC-33551445N	14"	14" DMI Notched Sealer	2-17/32"	3.5	0.138	4.0"	4	.53 SQ	7.04	\$28.89	Sealer
KSC-33551445	14"	14" DMI Plain Sealer	2-17/32"	3.5	0.138	4.0"	4	.53 SQ	7.04	\$28.89	Sealer
KSC-33551870	18"	18" DMI Plain Sealer, Dull	1-25/32"	3.5	0.138	5.0"	4	.53 SQ	8.80	\$33.99	Sealer



20FL-COMBO
20" Dia
Flutes to the edge
8 bolt holes
3-7/16" center hole



20FLC-COMBO
20" Dia
Flutes with smooth edge
8 bolt holes
3-7/16" center hole



20PL-COMBO
20" Dia
SMOOTH (Plain)
8 bolt holes
3-7/16" center hole



17WB-COMBO
17" Dia
12-wave, 3/4" height
8 bolt holes
3-7/16" center hole



20NO-COMBO
20" Dia
Notched RIM
8 bolt holes
3-7/16" center hole



20VT-COMBO
20" Dia
Z-shaped flutes
25 flutes, 1/2" overall
8 bolt holes
3-7/16" center hole

Plain Concave Disc Blades

Part #	Size	Concavity	Center hole	Weight	Retail
20 DB7-3	20" X 7ga 4.5mm	2"	1-1/8 SQx1-1/4 SQ	16.3	\$38.66
20 DB7-5	20" X 7ga 4.5mm	2"	1-1/2" Round	16.3	\$38.66
20 DB7-PH	20" X 7ga 4.5mm	2"	3/4" Pilot hole	16.3	\$38.66
22 DB7-3	22" X 7ga 4.5mm	2.5"	1-1/8 SQx1-1/4 SQ	20	\$47.26
22 DB7-5	22" X 7ga 4.5mm	2.5"	1-1/2" Round	20	\$47.26
22 DB7-7	22" X 7ga 4.5mm	2.5"	1-3/4" Round	20	\$47.26
22 DB7-PH	22" X 7ga 4.5mm	2.5"	3/4" Pilot hole	20	\$47.26
24 DB6-4	24" X 6ga 5mm	3"	1-1/4 SQ x 1-1/2RD	26.5	\$64.46
24 DB6-5	24" X 6ga 5mm	3"	1-1/2" Round	26.5	\$64.46
24 DB6-7	24" X 6ga 5mm	3"	1-3/4" Round	26.5	\$64.46
24 DB6-PH	24" X 6ga 5mm	3"	3/4" Pilot hole	26.5	\$64.46

Disc blades are Boron Steel heat treated and tempered, sharpened on one side
 -PH pilot holes may be used to make special center holes, cut charge applies



TPD Number	Grain Drill disc assemblies, except where noted	OEM P/N or MODELS	DIAMETER	WEIGHT	RETAIL
13505	Great Plains 13-1/2", 3.5mm with 205 brg	107-135S and 107-138S	13-1/2"	6.25	\$23.94
SH13505	Great Plains 13-1/2", boxed set of two, shims + dust covers	107-135S and 107-138S	13-1/2"	15	\$52.07
15005GP	Great Plains 15", 4mm with 205 brg	404-121S and 404-072S	15"	7.5	\$27.13
SH15005GP	Great Plains 15", boxed set of two, shims + dust covers	404-121S and 404-072S	15"	16.5	\$59.52
13505	Crustbuster 13-1/2", 3.5mm with 205 brg	863597 for model 3800	13-1/2"	6.25	\$23.94
SH13505	Crustbuster 13-1/2", boxed set of two, shims + dust covers	863597 for model 3800	13-1/2"	15	\$52.07
15005GP	Crustbuster 15", 4mm with 205 brg	859090	15"	7.5	\$27.13
15005N	Crustbuster 15" notched, 4mm with 205 brg	N/A	15" notched	7.4	\$30.80
13505K	Krause 13-1/2", 3.5mm with 205 brg	No-till and Pro	13-1/2"	6.25	\$23.94
13505	Krause 13-1/2", 3.5mm with 205 brg	No-till and Pro	13-1/2"	6.25	\$23.94
15005SUN	Sunflower 15", 4mm with 205 brg	SN9753 & SN8358	15"	7.5	\$30.32
15005SFOB	Sunflower 15", 4mm with 205 brg	SN6483, 7261 & 18476	15"	7.5	\$30.32
DD13.5RC	Deere domed 13-1/2", DISC ONLY	N283805, N164594	13-1/2"	5.5	\$10.11
18-DD6-3	Deere air seeder 18", DISC ONLY	N283804, N214190	18"	14.5	\$26.06

TPD Number	Row crop planter disc assemblies	OEM P/N	DIAMETER	WEIGHT	RETAIL
AP-JDF15D	Deere XP, XPRO EXTREME-duty cast steel hub, dbl 204	AA65248	15"	9.5	\$37.50
AP-7000MAXE15	Deere Max Emerge/Kinze 2000 HD single 204 brg	AA53860, exact OEM	15"	7.1	\$28.80
AP-7000MAXE15	Kinze 2000/3000 HD single 204 brg	GA8324, exact OEM	15"	7.1	\$28.80
AP-1700XP15	Deere XP, XPRO HD double row 204 brg	AA65248, exact OEM	15"	7.4	\$32.07
AP-1200-14-HDL	CaseIH 14" LEADING 4.5mm bevel OUTSIDE, HD 304 brg	84416318-L, 47828498	14"	8.2	\$35.33
AP-1200-14-HDT	CaseIH 14" TRAILING 4.5mm bevel INSIDE, HD 304 brg	84416319-T, 47828499	14"	8.2	\$35.33

*** Case discs are Heavy-Duty 4.5mm steel, replace mounting bolts with CaseIH HD bolt kit (longer bolts)

ALL Notched planter openers require the use of V-slice or V-shot planter inserts !

TPD Number	ACRA PLANT DISC ASSEMBLIES, NOTCHED 15" NO-TILL	OEM P/N	DIAMETER	WEIGHT	RETAIL
AP-001711	Deere, Kinze 4mm HD 205 brg 11-notch	AP1711	15"	10.5	\$69.95
AP-001715	Deere, Kinze 4mm HD 205 brg 15-notch	AP1715	15"	10.5	\$69.95
AP-301151	Acra-Plant 15" ADU blade, 4mm domed HD 11-notch	301151	15"	10.5	\$69.95
AP-301152	Acra-Plant 15" ADU blade, 4mm domed HD, 15-notch	301151	15"	10.5	\$69.95



V-BLADES 75° B=Bottom hardface CPB=Bottom hardface, chrome cap Undercutter Sweep Plow
 T=Top hardface CPT=Top hardface, chrome cap Blade Plow V-Blade

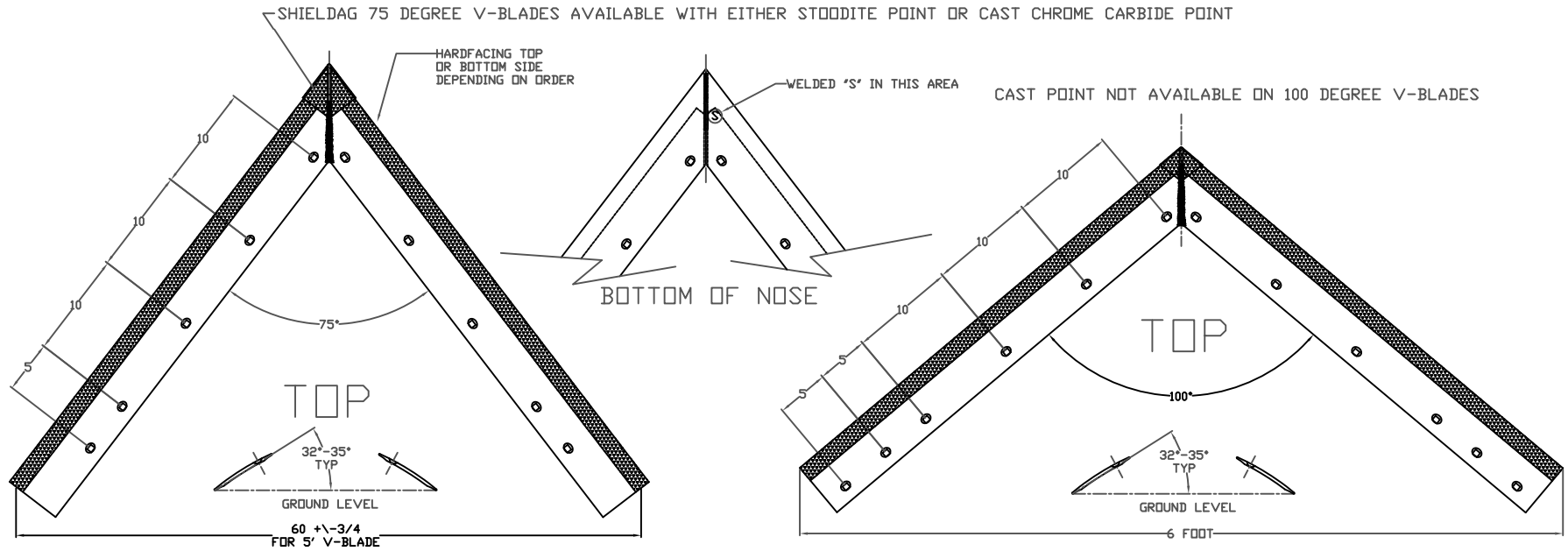
Part Number	Description	Weight	Retail
B5	5' bottom	57.0	\$315.00
CPB5	5' bottom chrome cap	57.0	\$318.00
CPT5	5' top chrome cap	57.0	\$318.00
T5	5' top	57.0	\$315.00
B5.5	5-1/2' bottom	61.0	\$330.00
CPB5.5	5-1/2' bottom chrome cap	61.0	\$333.00
CPT5.5	5-1/2' top chrome cap	61.0	\$333.00
T5.5	5-1/2' top	61.0	\$330.00
B6	6' bottom	63.0	\$348.00
CPB6	6' bottom chrome cap	63.0	\$351.00
CPT6	6' top chrome cap	63.0	\$351.00
T6	6' top	63.0	\$348.00
B6.5	6-1/2' bottom	69.0	\$391.00
CPB6.5	6-1/2' bottom chrome cap	69.0	\$394.00
CPT6.5	6-1/2' top chrome cap	69.0	\$394.00
T6.5	6-1/2' top	69.0	\$391.00
T7	7' top	78.0	\$412.00
KT4	4' Great Plains Kent, top hardfaced, 6-1/2" wide standard lift	53.0	\$288.00
KT4S	4' Great Plains Kent top hardfaced, low profile low lift	40.0	\$263.00
QB4	Quintstar and Roll-A-Cone Bottom	45.0	\$288.00
QT4	Quinstar and Roll-A-Cone Top	45.0	\$288.00

PLAIN (non-hardfaced) and 100 degree Noble blades available with special order

Part Number	Blade mounting bolts, shin guards and replacement chrome caps	Weight	Retail
4-3	1/2 x 1-1/2, Bolt/nut box 50ea	6.50	\$24.57
4-3H	1/2 x 1-1/2, Bolt/nut box 50ea	7.50	\$28.87
4-3JH	1/2 x 1-1/2, Bolt/nut box 50ea	6.50	\$29.82
4-4	1/2 x 1-3/4, Bolt/nut box 50ea	7.00	\$27.98
4-4H	1/2 x 1-3/4, Bolt/nut box 50ea	7.75	\$32.30
4-4JH	1/2 x 1-3/4, Bolt/nut box 50ea	7.00	\$33.24
H3-4	7/16 x 1-3/4, Bolt/nut box 50ea with 1/2" head	6.00	\$31.21
Z4-3	1/2 x 1-1/2, Bolt only per 500ea	43.00	\$169.66
Z4-4	1/2 x 1-3/4, Bolt only per 500ea	43.00	\$199.66
ZH3-4	7/16" x 1 3/4" with 1/2" head, Bolt only per 500ea	44.00	\$220.00
SMG-1	Stubble mulch shank guard, UHMW plastic, fitted	2.26	\$31.90
SNS-1	Chrome carbide cap	1.50	\$17.30



SHIELDAG V-BLADE SPECIFICATIONS



THEORETICAL WIDTH OF CUT (FEET)	NUMBER OF HOLES PER WING (SIDE)	SPACING BETWEEN HOLES
5 FOOT	5	3 EA 10' SPACING & 1 EA 5' SPACING
5-1/2 FOOT	6	3 EA 10' SPACING & 2 EA 5' SPACING
6 FOOT	7	4 EA 10' SPACING & 2 EA 5' SPACING
6-1/2 FOOT	8	4 EA 10' SPACING & 3 EA 5' SPACING
7 FOOT	8	4 EA 10' SPACING & 3 EA 5' SPACING
7-1/2 FOOT	9	5 EA 10' SPACING & 3 EA 5' SPACING
8 FOOT-OBSOLETE	9	5 EA 10' SPACING & 3 EA 5' SPACING
9 FOOT-OBSOLETE	11	5 EA 10' SPACING & 5 EA 5' SPACING

THEORETICAL WIDTH OF CUT (FEET)	NUMBER OF HOLES PER WING (SIDE)	SPACING BETWEEN HOLES
5 FOOT	5	2 EA 10' SPACING & 2 EA 5' SPACING
5-1/2 FOOT	5	2 EA 10' SPACING & 3 EA 5' SPACING
6 FOOT	6	3 EA 10' SPACING & 2 EA 5' SPACING
6-1/2 FOOT	7	3 EA 10' SPACING & 3 EA 5' SPACING
7 FOOT	8	3 EA 10' SPACING & 4 EA 5' SPACING
7-1/2 FOOT	8	3 EA 10' SPACING & 4 EA 5' SPACING
8 FOOT-OBSOLETE	8	3 EA 10' SPACING & 4 EA 5' SPACING
9 FOOT-OBSOLETE	9	4 EA 10' SPACING & 4 EA 5' SPACING

NOTE: QUINSTAR LASER PLOW USES SPECIAL 4' BLADE WITH 5 HOLES SPACED AT 7 1/2' KENT PLAINS PLOW USES SPECIAL 4' BLADE WITH 4 HOLES SPACED AT 10' V-BLADES FOR KENT & SUNFLOWER ARE ALSO AVAILABLE WITH SINGLE EDGE MATERIAL STANDARD 4 FOOT BLADES ARE ALSO MADE BY SHIELDAG EQUIPMENT BUT ARE GENERALLY NOT A STOCK ITEM. PLEASE CALL FOR AVAILABILITY.

NOTE: VIRTUALLY ALL V-BLADES ARE PUNCHED AND WELDED TO FIT NOBLE V-BLADE SPECIFICATIONS. THERE ARE EXCEPTIONS SUCH AS THE QUINSTAR LASER, KENT PLAINS PLOW, THE MARTEN-RATSLAFF (BUILT IN OK) AND SOME OF THE EARLY YEAR JOHN DEERE. WE CURRENTLY STOCK ONLY THE QUINSTAR LASER AND THE KENT PLAINS PLOW BLADES.



800-798-1968
WWW.SHIELDAG.COM

SUNFLOWER MFG. PRODUCES SOME UNITS USING BLADES WITH 1/4 FOOT INCREMENTS (I.E. 5 1/4, 6 1/4) THESE ARE MANUFACTURED RIGHT HAND AND LEFT HAND VERSIONS. THEY ARE PRODUCED ONLY PER ORDER, WHICH REQUIRES ABOUT 3 WEEKS LEAD TIME. BOLT SPACING WILL GENERALLY HAVE ONE MORE HOLE ON THE LONG SIDE.

2-bolt Field Cultivator Sweeps - 47° Stem Angle

Part #	SIZE	WEIGHT	RETAIL
FCC4-SST09	9" X 1/4", Surfa-Shield, two-hole	3.1	\$15.97
FCC4-SST10	10" X 1/4", Surfa-Shield, two-hole	3.2	\$16.89
FCC4-SST11	11" X 1/4", Surfa-Shield, two-hole	3.53	\$22.44
FCC4-SST12	12" X 1/4", Surfa-Shield, two-hole	3.65	\$25.08



FCC4-SST10



**ASK ABOUT OUR
TA-1, TA-2 AND TA-3
FERTILIZER TUBES
FOR USE WITH
SWEEPS AND CHISELS**

Standard bolt boxes for Field Cultivator sweeps

Part #	SIZE	WEIGHT	RETAIL
3-4	7/16 x 1-3/4 Bolt/nut box 50ea	6	\$25.80
Z3-4	7/16 x 1-3/4 Bolt only per 500ea	44	\$179.56

Part #	Chisels & Spikes	WEIGHT	RETAIL
C34	13 x 3/4 x 2", Chrome Cap	5.6	\$24.50
C34-SP	13 x 3/4 x 2", HEAVY-DUTY Chrome Cap	7.2	\$29.50
123HL	22 x 1/2 x 3", twisted LEFT	8.4	\$19.00
123HR	22 x 1/2 x 3", twisted RIGHT	8.4	\$19.00
123HL/HF	22 x 1/2 x 3" hardfaced	8.6	\$35.95
123HR/HF	22 x 1/2 x 3" hardfaced	8.6	\$35.95
1858	18 x 5/8 x 2", double end forged chisel	5.6	\$12.60
1858/HF	18 x 5/8 x 2", hardfaced	5.8	\$24.50
1878	18 x 7/8 x 2", double end forged chisel	7.4	\$16.60
1878/HF	18 x 7/8 x 2", hardfaced	7.6	\$27.70
KB-1	Crustbuster double end point	1.5	\$7.70



1858



C34



C34-SP

Recommended Grade 5 Plow Bolt/Nut for CHISELS

Part#	SIZE	WEIGHT	RETAIL
4-7	1/2 x 2-1/2 Bolt/nut box 50ea	9	\$36.68
Z4-7	1/2 x 2-1/2 Bolt only per 500ea	68	\$275.80

Mounting Wedge to adjust angle, fits all chisels and spikes

Part #	DESCRIPTION	WEIGHT	RETAIL
AP-708003	5° Mounting cast wedge	0.4	\$9.79

Chisel Plow Sweeps--50 degree stem angle

Part #	SIZE	WEIGHT	RETAIL
CPS4-16	1/4" X 16", plain	7.6	\$24.50
CPS5-SST18	5/16 X 18" with Surfa-Shield	9.5	\$45.50

5/16" Heavy-Duty 8' wide Penetrator

Part #	SIZE	WEIGHT	RETAIL
PS5-08	5/16 X 8" plain	4.6	\$25.50
PS5-SST08	5/16 X 8" with Surfa-Shield	4.9	\$31.00
PS5-HFT08	5/16 X 8" with top hardface	5.1	\$35.50

Conservation Sweeps ("fallowmaster/king")

Part #	SIZE	WEIGHT	RETAIL
PCS-DFB26	5/16 X 26" sweep Surfa-Shield Bottom and Stem	15.8	\$88.00
PCS-DFT26	5/16 X 26" sweep Surfa-Shield TOP and Stem	15.8	\$92.00



PS5-HFT08



PCS-DFT26

Grade 5 Plow Bolt/Nut for Chisel Plow and Conservation Sweeps

Part#	SIZE	WEIGHT	RETAIL
4-7	1/2 x 2-1/2 Bolt/nut box 50ea	9	\$36.68
Z4-7	1/2 x 2-1/2 Bolt only per 500ea	68	\$275.80

Plastic Shank Cushions

Part #	DESCRIPTION	WEIGHT	RETAIL
CPG-1	2 x 10" chisel plow guard	0.25	\$4.50
CPG-2	Cushion blocks for 26" sweeps	0.17	\$3.40
FCG-1	1-5/8 x 9" field cultivator guard	0.15	\$4.45

Acra Plant Conservation Ripper Points

Available in 7" & 10" winged points and Narrow Points with No Wing

Does your Conservation Tillage Yield Improvement Program include Subsoiling or Disc/Ripping to relieve compaction zones and improve soil tilth?

Our CRP Points are designed to:



- Relieve soil compaction zones for **YIELD IMPROVEMENT**
- Improve **SOIL TILTH** to increase nutrient availability and root uptake
- Produce a subsoil profile that assures improved root penetration
- Assure moisture retention in the driest conditions
- Provide fracture and lift with little surface disruption or "slabbing"
- Allow flexibility in running depth
- Scour up, pull easy and flow soil around the shank to reduce wear
- Provide long wear life in the widest variety of soil conditions

Our unique design allows us to use solid 25% chrome carbide in all of the wear surfaces with mounting boots are designed to fit most makes and models of disc rippers and subsoilers.

Start your Conservation Tillage Yield Improvement program today!



CRP Conservation Ripper Points FOR DISC RIPPERS

Part #	Description and OEM Machine Fit	Shank Width	Weight lbs	Suggested Retail	Machine Reference
CRP-1	7" Winged, Deere 510 512 2700, Baker, Krause TL3000 & 4880, Laney	1-1/4	15.8	\$151.02	Deere
CRP-1-10	10" Winged, Deere 510 512 2700, Baker, Krause TL3000 & 4880, Laney	1-1/4	16.6	\$170.59	Deere
CRP-2	7" Winged, DMI, CaseIH 870 9300 530 730, Krause Dominator	1-1/4	15.8	\$156.99	CNH/DMI/KRAUSE
CRP-2-10	10" Winged, DMI, CaseIH 870 9300 530 730, Krause Dominator	1-1/4	16.6	\$179.39	CNH/DMI/KRAUSE
CRP-2B	7" Winged, Brillion Land Commander 1 & 2	1-1/4	15.8	\$164.74	Brillion
CRP-2B-10	10" Winged, Brillion Land Commander 1 & 2	1-1/4	16.8	\$188.28	Brillion
CRP-3	7" Winged, DMI, CaseIH 870 9300 530 730	1-1/2	15.8	\$156.51	DMI/CNH
CRP-3-10	10" Winged, DMI, CaseIH 870 9300 530 730	1-1/2	16.6	\$171.61	DMI/CNH
CRP-4	7" Winged, Sunflower 4300, 4400, 4600-series & M&W Earthmaster	1-1/4	15.8	\$151.02	Sunflower/M&W
CRP-4-10	10" Winged, Sunflower 4300, 4400, 4600-series & M&W Earthmaster	1-1/4	16.6	\$170.59	Sunflower/M&W
CRP-5	2-3/8" Flat top for DMI, CASEIH 870 9300 530 730, Krause Dominator	1-1/4	12	\$123.84	CNH/DMI/KRAUSE
CRP-6	2-1/2" Narrow Point (no wings), DMI, CaseIH 870 9300 530 730, Krause Dominator	1-1/4	13.8	\$142.49	CNH/DMI/KRAUSE
CRP-6B	2-1/2" Narrow Point (no wings), Brillion Land Commander 1 & 2	1-1/4	13.8	\$152.23	Brillion
CRP-7	2-3/8" Flat top, JD 510 512 2700, Baker, Krause TL3000 & 4880, Laney	1-1/4	12	\$121.26	Deere
CRP-8	2-1/2" Narrow Point, Deere 510 512 2700, Baker, Krause TL3000 & 4880, Laney	1-1/4	13.8	\$138.45	Deere
CRP-9	7" Winged, Brent Earthquake & CPC	1-1/4	15.8	\$161.89	Brent
CRP-9-10	10" Winged, Brent Earthquake & CPC	1-1/4	16.6	\$184.63	Brent
CRP-9R	2-1/2" Narrow Point (no wings), Unverferth / Rawson Zonebuilder	3/4	13.8	\$147.48	Rawson/Unverferth
CRP-9RW	7" Winged, Unverferth / Rawson Zonebuilder	3/4	15.8	\$161.89	Rawson/Unverferth
CRP-10	2-1/2" Narrow Point (no wings), Landoll Weatherproofer 2200-2300- series	1-1/8	13.8	\$147.48	Landoll 2200-
CRP-11	7" Winged, Landoll Weatherproofer 2200-2300-series	1-1/8	15.8	\$161.89	Landoll 2200-
CRP-11-10	10" Winged, Landoll Weatherproofer 2200-2300-series	1-1/8	16.8	\$176.89	Landoll 2200-
CRP-12	7" Winged, Caldwell/Graber	1-1/2	15.8	\$170.26	Caldwell
CRP-13	2-1/2" Narrow Point (no wings), Brillion subsoilers with 1" shank	1	14	\$157.20	Brillion
CRP-14	7" Winged, Brillion subsoilers with 1" shank	1	15.8	\$171.61	Brillion
CRP-14-10	10" Winged, Brillion subsoilers with 1" shank	1	16.8	\$191.18	Brillion
CRP-15	7" Winged, Koenig DWK-series	1-1/2	15.8	\$161.08	Koenig
CRP-15N	2-1/2" Narrow point (no wings), Koenig DWK-series	1-1/2	14.5	\$145.17	Koenig
CRP-16	7" Winged, Laney Extra Heavy Duty Plow	1-1/2	15.8	\$161.08	Laney
CRP-17	2-1/2" Narrow Point (no wings), DMI, CaseIH 870 9300 530 730	1-1/2	13.8	\$141.18	DMI/CNH
CRP-18	2-1/2" Narrow Point (no wings), Unverferth 310/330/332 Ripper/Stripper	3/4	13.8	\$147.48	Unverferth
CRP-19	7" Winged, Worksaver V-ripper	1-1/4	15.8	\$160.18	Worksaver
CRP-20	2-1/2" Narrow Point (no wings), Brillion ST-30 Rip/Strip narrow shank	3/4	13.8	\$154.90	Brillion
CRP-21	2-1/2" Narrow Point (no wings), Allis #9	1	16.8	\$145.75	Allis
CRP-24	2-1/2" Narrow Point, Sunflower 4300, 4400, 4600-series & M&W Earthmaster	1-1/4	16.8	\$136.59	Sunflower/M&W
CRP-25	7" Winged, Unverferth Ripper/Stripper	3/4	16.8	\$161.89	Unverferth
CRP-26	2-1/2" Narrow Point (no wings), Wilrich SoilPro & 657 DCR/ripper	1-1/4	13.8	\$141.18	Wilrich
CRP-26-7	7" Winged, Wilrich SoilPro & 657 DCR/ripper	1-1/4	16	\$156.51	Wilrich
CRP-26-10	10" Winged, Wilrich SoilPro & 657 DCR/ripper	1-1/4	16.9	\$171.61	Wilrich
CRP-28	7" Winged, Dammer-Diker and Tillage Master, CRP-1 & -8 also fit some models	1-1/4	15.8	\$156.36	Dammer
CRP-34	7" Winged, Besler 4000-series	1-1/4	15.6	\$151.60	Besler
CRP-37	7" Winged, Quinstar/Orthman SoilShark	1-1/4	15.8	\$151.01	Orthman
CRP-44	2-1/2" Narrow Point, Great Plains Verti-Till 4360/6360 & Turbo-Chisel TC 5-series	1-1/4	13.8	\$150.33	Great Plains
CRP-44-7	7" Winged, Great Plains Verti-Till 4360/6360 & Turbo-Chisel TC-5 series	1-1/4	16	\$164.74	Great Plains
CRP-44-10	10" Winged, Great Plains Verti-Till 4360/6360 & Turbo-Chisel TC-5 series	1-1/4	16.9	\$184.33	Great Plains
CRP-50	2-1/2" Narrow CRP, Landoll WP 2410/2430-series	1-1/4	14	\$153.45	Landoll 2400-
CRP-50-7	7"Winged CRP, Landoll WP WP 2410/2430-series	1-1/4	16	\$158.02	Landoll 2400-
CRP-50-10	10" Winged CRP, Landoll WP 2410/2430-series	1-1/4	16.5	\$190.95	Landoll 2400-
CRP-50LS	Shin guard Landoll WP 2410/2430-series	1-1/4	4.5	\$83.06	Landoll 2400-
CRP-60	2-1/2" Narrow Point (no wings) Unverferth 112, 122 and 132 zone builders	3/4	16	\$156.94	Unverferth
CRP-60-7	7" Winged, Unverferth 112, 122 and 132 zone builders	3/4	19	\$169.84	Unverferth
CRP-77	7" Winged, BluJet Subtilers, all	1-1/4	21	\$185.00	Blu Jet
342-JD-238	2-3/8" Flat Top Ripper point, Deere 900, 915V, Baker in-line and V-rippers	1-1/4	11	\$89.93	Deere
342-JD-278	2-7/8" Flat Top Ripper point, Deere 900, 915V, Baker in-line and V-rippers	1-1/4	13	\$104.90	Deere

Deere 2700-series includes 2720 Disk Rippers and 2730 combo rippers Landoll's new 2410 and 2430-series WeatherProofer take a two piece point and shin guard Unverferth's new 112, 122 and 132 Zone builders are different than the older Unverferth / Rawson Rip/Strippers (CRP-18) and Zone Builders (CRP-9R and -9RW)

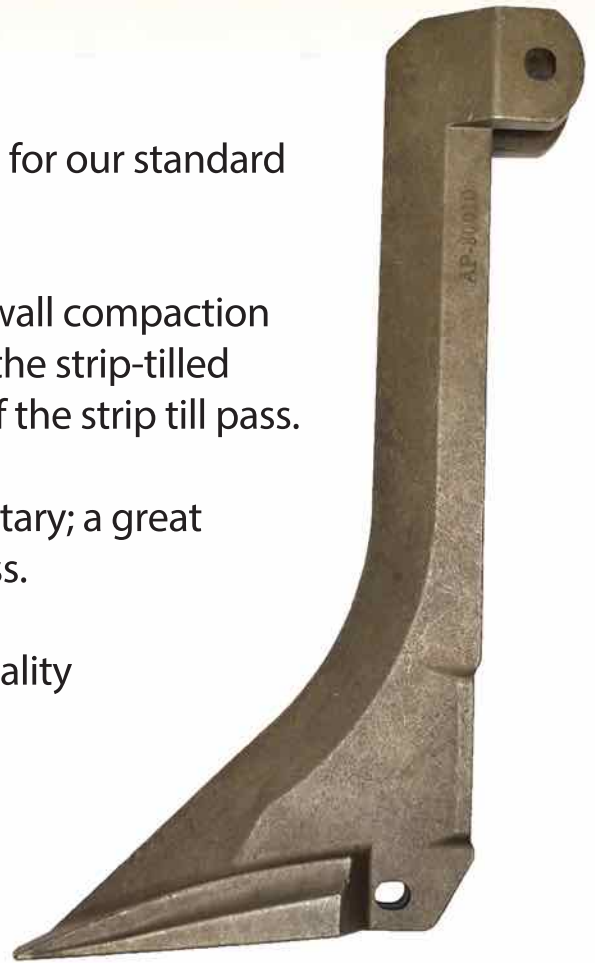


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New From TPD: AP-800106

Acra Replacement Point

- More lift and fracture of the soil profile for optimum strip till results.
- Reduced wear on the OEM shank
- “Diamond” nose is directly from our terrific design for our standard ST-series knives, designed to increase wear life.
- Design of the mole foot (and fin) will reduce sidewall compaction and nearly eliminate “gully washers” right down the strip-tilled row in case of heavy rains within a week or two of the strip till pass.
- Casting Materials is ACRA-EXCLUSIVE and proprietary; a great combination of improved wear life and toughness.
- Absolutely World-Class foundry capability and quality control. The best of the best!
- The AP-800106 NOW AVAILABLE from TPD
Replaces Orthman P/N 164-054 & 164-057



*For Fast, Easy Service...
Shop On-Line Today!*



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TillagePartsDirect.com*

Acra Plant Chrome Carbide V-Crown Ripper Points and Shank Guards

Item	DESCRIPTION AND MACHINE FIT	WEIGHT	RETAIL
AP-10420	Replacement Shank for for Acra VPS 2000	132	\$634.83
AP-20406	Replacement Shank for Acra VPS 3000	88	\$559.32
TF-820101	RIPPER POINT, VPS 2000 without WINGS, casting # TF820101	4.8	\$79.50
TF-820102	RIPPER POINT, VPS 2000 with WINGS, casting # TF820102	5.6	\$88.00
TF-820108	RIPPER POINT, VPS 3000 with WINGS, casting # TF820108	10.21	\$86.00
TF-129	SHANK GUARD for ACRA VPS & QUINSTAR RIPPERS TF820116	10.1	\$104.00



TF-820102
(VPS 2000)



TF-820108
(VPS 3000)



TF-129
(VPS &
QUINSTAR)

Item	DESCRIPTION AND MACHINE FIT	WEIGHT	RETAIL
AG-8001-DF	RIPPER POINT Orthman Dorsal Fin, casting # AG-8001-DF	4.75	\$65.50
AP-800102	RIPPER POINT w/PIN Orthman 2" CP20, casting # TF800102	3.42	\$36.00
AP-800104	RIPPER POINT w/PIN Orthman 4", casting # TF800104	4.7	\$43.00
AP-800106	Orthman 1TripR Strip Till	12	\$72.00
TF-103	Spring Cultivator Point Krause/Hamby/Johnson, casting #103	2.68	\$27.00
TF-104	Shank Guard Krause 4650	6.5	\$29.00
TF-122	Tillage Point Krause/Hamby/Johnson, Fall Point, casting #122	3	\$33.00



AG-8001-DF
(ORTHMAN)



AP-800102
(2" ORTHMAN)



AP-800104
(4" ORTHMAN)

IMPROVED ORTHMAN
ONE-TRIPPER POINT !



AP-800106
(ORTHMAN)



TF-103



TF-122



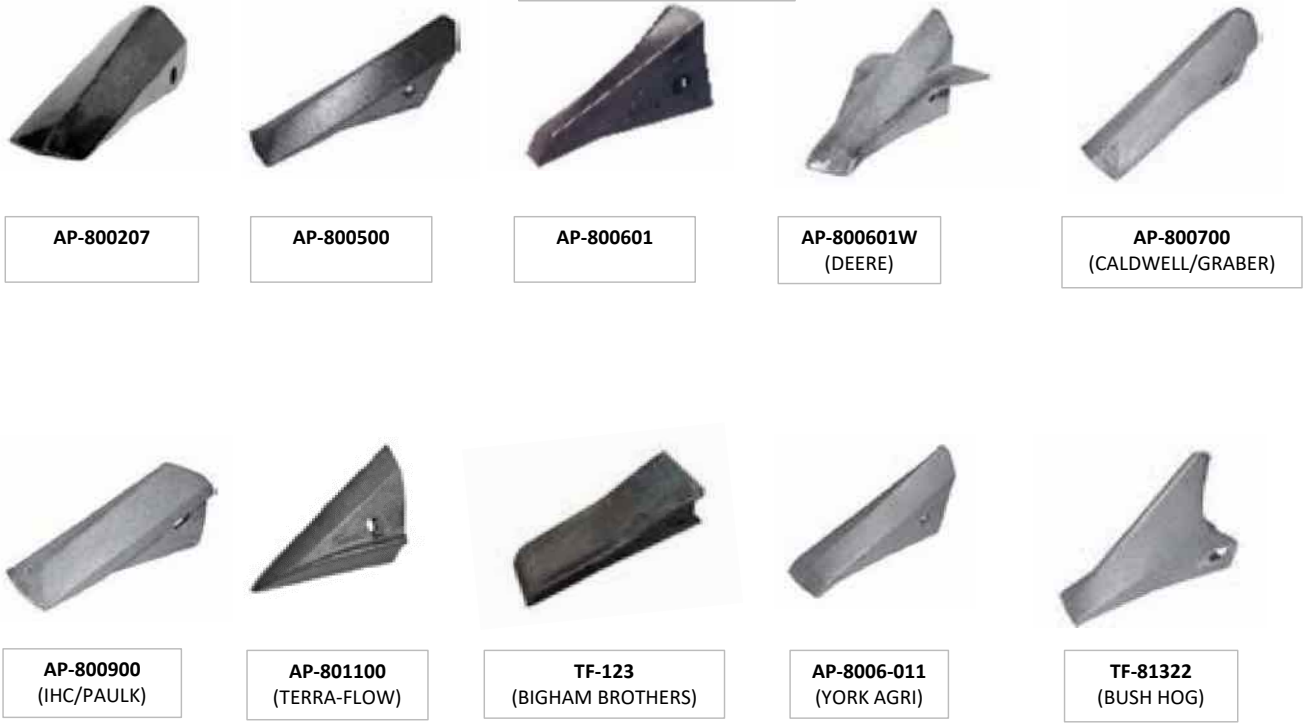
TF-104
(KRAUSE)

ALL CHROME CARBIDE CASTINGS ARE MADE FROM THE ORIGINAL ACRA-TUFF ALLOY

SPECIALLY FORMULATED FOR LONG WEAR LIFE AND RESISTANCE TO BREAKAGE !!!

Item	DESCRIPTION AND MACHINE FIT	WEIGHT	RETAIL
AP-800207	RIPPER POINT w/PIN Big Ox Before 1986, casting # TF800207	3.33	\$50.00
AP-800500	V-CROWN RIPPER POINT FOR IHC#14 w/PIN, casting # 800500	6.33	\$72.50
AP-800601	RIPPER POINT w/PIN 1.25" SHANK JD/BH, casting # 8006-01	6.33	\$71.50
AP-800601W	RIPPER POINT WINGED 1.25" SHANK w/PIN, casting # 8006-01W	6.4	\$102.00
AP-800700	RIPPER POINT w/PIN Caldwell/Graber, casting # TF800700	8.5	\$69.00
AP-800800	RIPPER POINT w/PIN M&W Sunflower	5.5	\$68.50
AP-800900	RIPPER POINT w/PIN IHC #10 & #11 PAULK, casting # 800900	4.3	\$55.50
AP-801100	Terra-Flow point , casting # 801100 or ORP 3	4.5	\$77.85
TF-123	RIPPER POINT Tye/BighamBrothers, casting # TF123	6.1	\$46.50
TF-8006-011	SUBSOILER POINT 1" SHANK York Agri, casting # TF8006-011	5.5	\$81.00
TF-8006-011W	RIPPER POINT WINGED 1" SHANK woPIN, casting # TF8006-011W	7.4	\$110.00
TF-81322	BUSH HOG DORSAL FIN POINT	6.5	\$120.00

AP-800601 or 800-601 for Deere V-rippers has been improved to wear longer and reduce shank wear !



SEE OUR COMPLETE LINE OF AGRONOMICALLY DESIGNED DISC RIPPER POINTS TOO !!

OUR CRP- Disc ripper points are available in 2-1/2", 7" and 10" wide for over 20 models of disc rippers !!

Tillage Parts Direct • TPD • 844-533-1311 • www.tillagepartsdirect.com

BluJet Ripper points and shin guards

Item	Description	Weight	Retail	Fitup
AP-503200	BLUE JET OEM STYLE FALL POINT BJ3AFALL/5032	16	\$115.00	Same as BluJet Factory, except Chrome Carbide
AP-503300	BLUE JET OEM STYLE SPRING POINT BJ3ASPRING/5033	11	\$95.00	Same as BluJet Factory, except Chrome Carbide
AP-801300	BLUE JET SPRING POINT noHARDWARE, casting # TF801300	11	\$110.00	Acra Plant heavy duty replacement
AP-801400	BLUE JET FALL POINT noHARDWARE, casting # TF801400	16	\$140.00	Acra Plant heavy duty replacement, Salford 801400
AP-801600	BLUE JET SHIN GUARD, reversible	14.5	\$120.00	Shin guard, chrome carbide
CRP-77	7" winged point	18	\$185.00	7" wide BluJet point, CRP wings

Acra-Plant points and shin guards are made from a special alloy of chrome carbide for long wear life and resistance to brittle failure

Acra-Plant Chrome Carbide Subsoiler & Ripper Points

Specialty Points for OEM Replacement

The Acra-Plant Line of Blu-Jet Points have been redesigned to optimize the fit, lower draft requirements, improve the attack angle and provide more protection of the shank bottom

Blu-Jet Sub Tillers

Part #	Description	Weight
AP-801300	Inner-row point (also considered "spring point") <ul style="list-style-type: none"> • Narrow point for deep tillage • V-crown chrome carbide point scours up quickly and pulls easily • Point is 2" wide x 14" long • Casting # TF801300 	11.00

NOTE: Uses factory hardware, not supplied by Acra-Plant



AP-801300

Part #	Description	Weight
AP-801400	Wide point (also considered "Fall point") <ul style="list-style-type: none"> • Wider point for deeper tillage, more shattering action • V-crown chrome carbide point scours up quickly and pulls easily • Designed to run "nose-down" for optimum performance • Point is 2-7/8" wide x 15-1/2" long • Casting # TF801400 	16.00

NOTE: Uses factory hardware, not supplied by Acra-Plant



AP-801400

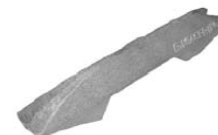
Part #	Description	Weight
AP-801600	Shin guard for Blu-Jet sub tiller <ul style="list-style-type: none"> • Improved casting chemistry to resist breakage • Guard is 1-1/4" wide x 22" long 	14.50

NOTE: Uses factory hardware, not supplied by Acra-Plant



AP-801600

Part #	Description	Weight
AP-503300	Blu-Jet Spring (OEM) <ul style="list-style-type: none"> • Replaces casting # BJ3ASPRING/5033 or AP5033 	7.0
AP-503200	Blu-Jet FALL (OEM) <ul style="list-style-type: none"> • Replaces casting # BJ3AFALL/5032 or AP5032 	13.6



AP-503300

Chrome Carbide Shank, Sweep, Ripper and Harvesting Equipment Repairs

Segmented flat and half-round weld-on sectional guards

Part #	Size	Style	Typical Application	Weight	Retail
SG-111-9	1" X 9" long	Flat	3/4" ripper shanks	0.9	\$12.62
SG-114-9	1-1/4" X 9" long	Flat	1" ripper shanks	1	\$13.67
SG-112-9	1-1/2" X 9" long	Flat	1-1/4" ripper shanks	1.1	\$17.88
SG-175-7	1-3/4" X 7" long	Flat	1-1/2" ripper shanks	1.1	\$17.88
SGR-114-14	1-1/4" X 12" long	half round	1" ripper shanks	1.1	\$17.88
SGR-112-14	1-1/2" X 12" long	half round	1-1/4" ripper shanks	1.2	\$23.15

Edge Guards

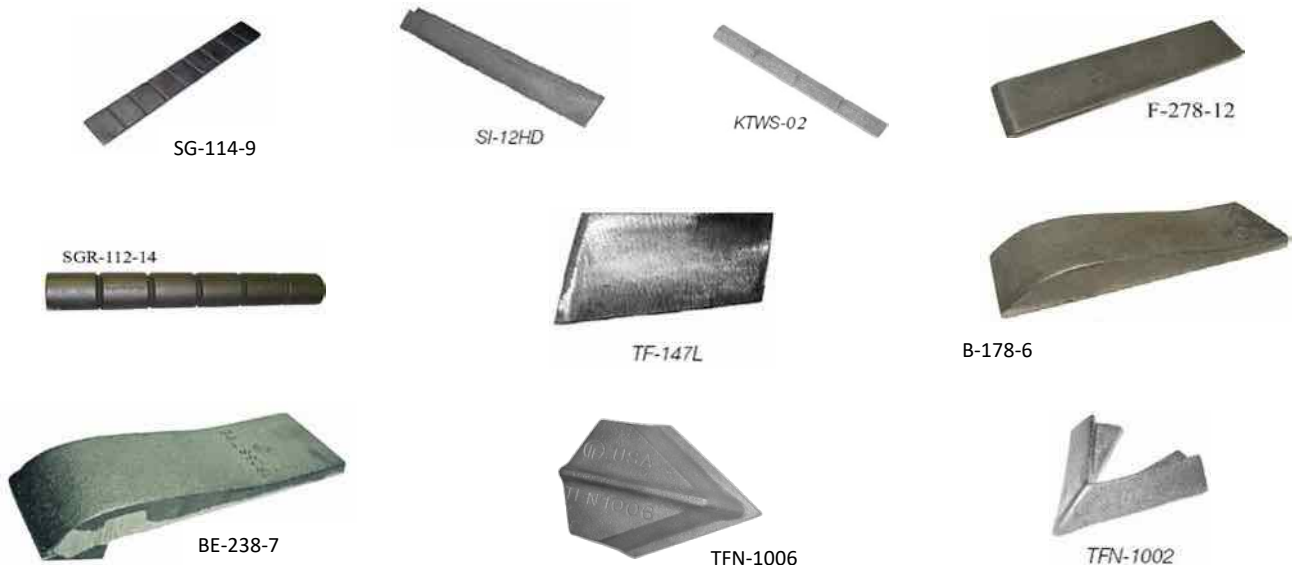
Part #	Size	Style	Typical Application	Weight	Retail
SI-12	1" X 14" long	V-nose	Potato & peanut digger	1.11	\$13.67
SI-12HD	1-3/4" X 12" long	V-nose	Potato & peanut digger	2.17	\$21.04
SGT-12X 1/2	1/2" X 12" long	Triangle	harrow tynes & renovators	0.46	\$5.25
KTWS-01	9/16" X 6" segmented	Triangle	knife shank, edge guard	0.34	\$10.52
KTWS-02	3/4" X 6" segmented	Triangle	knife shank, edge guard	0.44	\$14.73
KTWS-05	9/16" X 6" segmented	Tapered triangle	knife shank, edge guard	0.33	\$9.46

Caps and other protectors

Part #	Size	Style	Typical Application	Weight	Retail
TF-147L	3" X 6" X 15 degrees	parallelogram	Left hand shank protector	1.6	\$23.15
TF-147R	3" X 6" X 15 degrees	parallelogram	Right hand shank protector	1.6	\$23.15
F-234-4	2-3/4" X 4" long	flat rectangle	ripper cap, shin protector	0.97	\$10.52
F-278-12	2-7/8" X 12"	flat rectangle	ripper cap, shin protector	3.85	\$32.62
B-178-6	1-7/8" X 6" long	bulb nose rectangle	ripper cap, shin protector	1.7	\$17.88
B-238-12	2-3/8" X 12" long	bulb nose rectangle	ripper cap, shin protector	3.5	\$34.73
B-278-12	2-7/8" X 12" long	bulb nose rectangle	ripper cap, shin protector	3.88	\$36.83
BE-238-7	2-3/8" X 7" long	hook nose rectangle	ripper cap, shin protector	2.25	\$24.20
BE-278-12	2-7/8" X 12" long	hook nose rectangle	ripper cap, shin protector	4.1	\$35.78
TFN-1002	3" step pocket V	open top point	sweep & chisel tip	0.29	\$9.46
TFN-1006	3" X 4-3/4"	HD closed top	chisel point	1.04	\$23.15

DO IT YOURSELF WELDING REPAIRS, Stoddy STUBS sold by the pound, minimum 25 lb order, wire by full spools only

Part #	Size	Style	Typical Application	Weight	Retail
STUBS	1/4" dia X 12--18" long	Stoddy hardface rod	manual oxy-acetylene hardfacing/lb	2--4 lbs	\$1.04
11943400	.062" dia wire	hardface wire 101-HD	Mig weld hardfacing, price/lb	33	\$10.52



ALL HOE DRILL POINTS ARE ORIGINAL ACRA-PLANT "Acra-Tuff" ALLOY

PART #	DESCRIPTION	WEIGHT	RETAIL
AP-701830	Air hoe seeder point Deere 1830 and 1835 air drills, Tungsten Carbide tip	1.8	\$33.10
AP-710060	(DSZ6, Z6) bolt-on V-bottom, with hardware	0.8	\$15.27
AP-710070	(DSZ7, Z7) pin-on V-slice with pin	1.0	\$17.06
AP-710080	(DSZ8, Z8) pin-on V-slice with pin	1.2	\$17.51
AP-720011X	(Z11X) bolt-on extreme conditions, without hardware	0.9	\$14.37
AP-720012	Z12 Acra-Style V-bottom Air hoe seeder point Deere 1830 and 1835 air drills	1.2	\$15.10
AP-729390	(Z9, TF132) bolt-on drop-nose without hardware	0.9	\$10.78
AP-729400	Bolt-on V-bottom, drop-nose without hardware	0.9	\$12.57
AP-729410	(Z10, 657PO, TF105) pin-on without hardware	0.8	\$12.57
DNC-657D	(657) bolt-on Spear, without hardware	0.8	\$13.92
DNC-657DEB	(657DEB) drop nose bolt-on, without hardware	0.8	\$13.92
DNC-657V	(657V) B-bottom bolt-on Spear, without hardware	0.9	\$13.92
DNC-715V	(715V) economy bolt-on shallow V, without hardware	0.7	\$13.92
AP-720011XV	(809V) bolt-on V-bottom point, without hardware	1.0	\$17.06

ACRA HOE DRILL SHOES

ASSEMBLY #	JD LZ and 9300	WEIGHT	RETAIL
AP-711052	JD LZ, 9300 Hoe drill shoe body only WITHOUT POINT	3.1	\$85.99
AP-711070	Acra Hoe drill shoe w/ Z7 point, JD LZ, 9300, 775-785 Air Hoe Drill, WITH POINT	4.1	\$104.16

ASSEMBLY #	CaseIH 150 Cast Boot	WEIGHT	RETAIL
AP-715052	CaseIH 150 Cast Boot Hoe drill shoe body only WITHOUT POINT	2.5	\$93.02
AP-715070	Acra Hoe drill shoe w/Z7 point, CaseIH 150 cast boot, WITH POINT	3.5	\$110.19

ASSEMBLY #	JD 9400 and 1800-series air hoe seeder	WEIGHT	RETAIL
AP-719452	JD 9400 Hoe drill shoe body only WITHOUT POINT	3.8	\$86.13
AP-719480	Acra Hoe drill shoe w/Z8 point, JD 9400 & 1800-series Air hoe air seeder, WITH POINT	5.0	\$104.43



AP-710060
(DSZ6), (Z6)
(AG-7100-60)
(TF111)



AP-710070
(DSZ7)
(Z7)
(DNC-827P)



AP-710080
(DSZ8)
(Z8)



AP-729390
(Z9)
(TF132)



AP-729400
(99)
(TF132)



AP-729410
(Z10), (TF105)
(657PO)



DNC-657D



DNC-657DEB



DNC-657V
(657V)



DNC-715V



AP-720011X
(720011)



AP-720011XV
(809V)



AP-720012



AP-701830
(CARBIDE TIP)

NEW FOR 1800
SERIES AIR HOE
SEEDERS

INNOVATION IN PRECISION AGRICULTURE

STRAIGHT FROM THE HEARTLAND

MADE IN THE USA



ShieldAg/AcraPlant offers precision seed placement WITH starter fertilizer

DEERE XP



EARLY DEERE & KINZE



WHITE



KINZE 3000



KINZE 4000



CASE IH



V-Shot

- V-slice proven technology, improving seed-soil contact
- Uniform and early emergence, eliminate seed roll-and-bounce
- Apply starter fertilizer WHERE IT BELONGS, below the seed
- All these benefits with 1 tool



All complete kits have Suggested Retail Price of \$79.95 per Row

Acra-Plant V-SHOT kits			Approximate Planter Production years	Casting and SS tube in the kit	
Acra-Plant Kit Number	Brand	Designed for		Casting #	SS tube #
AP-1785V-SHOT-7100	Deere	7000 and 7100 Max Emerge built before 1984 and Kinze 2000	1977--1984	AP-001785VS	AP-001785VS-W
AP-1785V-SHOT-7184	Deere	7000 and 7100 Max Emerge built in 1984, 85 and early 86	1984--1986	AP-001785VS	AP-001785VS-WO
AP-1785V-SHOT	Deere	7200 and later ME2, ME PLUS and ME-PRO planters, including 1700-series prior to 2004 with ME+ or PRO row units, and 1530 and early 1535 Drills with ME row units.	1986--2004	AP-001785VS	AP-001985XPVS-W
AP-1985V-SHOT	Deere	XP, XP Pro and MaxEmerge® 5 ME5 row units ***DOES NOT FIT EXACT EMERGE	2005 to present	AP-001985XPVS	AP-001985XPVS-W

NEW FOR 2017 !! Shorter Version of 1985XP V-shot that does NOT hang as far below the blades, for tough clay conditions AP-1985V-SHOTG

Acra-Plant Kit Number	Brand	Designed for	Approximate Planter Production years	Casting #	SS tube #
AP-1985V-SHOTG	Deere	XP, XP Pro and MaxEmerge® 5 ME5 row units ***DOES NOT FIT EXACT EMERGE	2005 to present	AP-001985XPVSG	AP-001985XPVS-W

***Consult factory for details !!!

Acra-Plant Kit Number	Brand	Designed for	Approximate Planter Production years	Casting #	SS tube #
AP-1785V-SHOT-7100	Kinze	Kinze 2000, same kit as for early JD ME 7000/7100	All Kinze 2000 models 1999 & older	AP-001785VS	AP-001785VS-W
AP-4985V-SHOT	Kinze	Kinze 4900 (4000-series row units)	Introduced in 2014	AP-004985VS	AP-001785VS-W
AP-1690V-SHOT	White	White 9000 series ** Planter has 16" discs, requires different V-slice than Acra- Plant makes for the White 6000 and 8000-series planters	Introduced in 2014	AP-001690VS	AP-001690VS-W

Acra-Plant Kit Number	Brand	Designed for	Approximate Planter Production years	Casting and SS tube in the kit	
AP-1885V-SHOT	Kinze	Kinze 3000	Introduced in 1999 for 2000 --2014	AP-001885VS	Not required
AP-1685V-SHOT	White	White 6000 and 8000 series	Approximately 1990--2014	AP-001685VS	AP-001785VS-W
AP-9885V-SHOT	CaseIH	CaseIH 1200 series and later	Approximately 2000--2015	AP-009885VS	Not required

***Installation of the AP-9885V-SHOT for CaseIH planters requires drilling a 9/32" hole through the trailing disc lip of the center disc support

***Complete set of instructions and drilling template is furnished with each kit, and a video is available on the ShieldAg YOUTUBE page

<https://www.youtube.com/watch?v=RofCqdxtK4U> ← Location on YouTube

*** AP-9885V-SHOT will also work with CaseIH 800- and 900-series planters, consult Acra-Plant to confirm planter center body design

Tillage Parts Direct • TPD • 844-533-1311 • www.tillagepartsdirect.com

All complete kits have Suggested Retail Price of \$79.95 per Row

Acra Plant V-slice Inserts, see V-SHOT Catalog Section for precision in-furrow V-shots

Item	Description	Weight	Retail
AP-001685	V-SLICE INSERT w/PIN/BOLT White 6000 Series and Later NON V-SHOT	1.9	\$26.95
AP-001785	V-SLICE INSERT w/PIN/BOLT John Deere & Kinze 2000 NON V-SHOT	2.0	\$26.95
AP-001785CLIP	Plastic seed tube clip for Deere 7000, Kinze 2000 NON V-SHOT	0.1	\$2.85
AP-001885	KINZE 3000 SERIES V-SLICE OPENER NON V-SHOT	2.0	\$31.45
AP-001985XP	V-SLICE INSERT John Deere XP Row Units NON V-SHOT	2.2	\$32.45
AP-331100	ADU INSERT JDI3 w/Bolts/Nuts for Acra Drill Unit	1.9	\$32.41
AP-410000	OPENER SLICING BLADE w/BOLT/NUT 10-C for tandem blade opener	2.2	\$47.77
AP-410100	OPENER SLICING STUB w/JBOLT V-9 & tandem opener	1.0	\$41.05
AP-954141	ACRA PLANT OPENER W/J-Bolt 7-C for Lister Opener	1.3	\$41.55



AP-001685



AP-001685



AP-001885



AP-001985XP



AP-410100



TillagePartsDirect.com

ORIGINAL ACRA-TUFF DANISH TYNES AND FIELD CULTIVATOR SWEEPS

Acra-Tuff Alloy Danish Tynes and Field Cultivator points/sweeps will OUT LAST stamped steel parts by 3 to 5 TIMES !!!

AP-860102

AP-860202

AP-860402

AP-860702

1"



2-3/4"



4"



7"



Hardware and fitment shim is included with every kit !!!



Danish 1-HOLE sweeps for round-tyne Danish cultivators

Part Number	Description, single-hole Danish	WEIGHT	RETAIL
AP-860102	1" Spike w/hdwre and shim, single hole mounting	0.9	\$8.94
AP-860202	2-3/4" Goosefoot w/hdwre and shim, single hole mounting	1.2	\$9.99
AP-860402	4" Sweep w/hdwre and shim (4" OK Sweep), single hole mounting	1.2	\$12.09
AP-860702	7" Sweep w/hdwre and shim (7" OK Sweep), single hole mounting	2.2	\$18.41

All 860-series single-hole Danish Chrome Carbide sweeps are furnished with the proper hardware kit and the rubber cushioning shim

AP-861202

2-3/4"



AP-861402

4"



Kongskilde Chrome Carbide Tynes will outlast OEM stamped-steel parts by 3-5 TIMES and are furnished with the correct hardware. Fitup is exact to the round tyne, no rubber shim is required

Part Number	Description, Kongskilde 2-hole Danish tyne	WEIGHT	RETAIL
AP-861202	Kongskilde 2-3/4" 2-hole, with hardware, no shims	1.8	\$11.04
AP-861402	Kongskilde 4" duckfoot 2-hole, with hardware, no shims	3	\$18.41

All 861-series Kongskilde points are furnished with the proper 2-bolt set

AP-871102

2-3/4"



AP-871104

4"



AP-871107

7"



AP-871109

9"



Furnished with rubber adjusting wedges and correct 7/16 hardware !



AP-871380 bolt kit available for cultivator shanks with 3/8" mounting holes

Part Number	Hole/slot field cultivator points and sweeps	WEIGHT	RETAIL
AP-871102	Field cultivator point, 2-3/4", hole/slot, with hardware, no shims	2.4	\$12.09

AP-871102 replaces ACRA AP-871101 and AP-871201, Extra flat washer incuded in AP-871102 to "pitch" the cultivator point as needed

Part Number		WEIGHT	RETAIL
AP-871104	Field cultivator hole/slot, 4" duckfoot, with hardware	3.5	\$22.09
AP-871107	Field cultivator hole/slot, 7" sweep, with hardware	4.8	\$26.83
AP-871109	Field cultivator hole/slot, 9" sweep, with hardware	5.5	\$31.57
AP-871380	Special bolt kit for field cultivators with 3/8" diameter shank holes	0.4	\$4.05
AP-501226	Radius fitment shim to allow for special OEM cultivator shanks with flattened soil ends	0.2	\$2.33

All 871-series chrome carbide field cultivator points & sweeps furnished with the proper 7/16" hardware kit & rubber 5-degree wedge

COMPLETE ROW UNITS AND COMPONENTS AVAILABLE TO FIT ALL TOOLBAR SIZES

Part Number	Coulter mounts and coulter arms for toolbars	WEIGHT	RETAIL
KSC-466340S	Cast Steel 4 X 4 or 6 X 4 Coulter System Mount, requires 3/4" mtg hdwre	10.0	\$83.50
KSC-466360	20" Coulter Arm with shaft and 20" smooth blade	77.0	\$430.00
KSC-466370	24" Coulter Arm with shaft and 24" smooth blade	90.0	\$460.00
KSC-466670	Cast steel 5 X 7, 7 X 7, 4 X 6, 6 X 6 Coulter Mount, requires 3/4" mtg hdw	20.0	\$98.00
KSC-531002	20" Liquid Coulter Arm w/ shaft and 20" fluted crucible blade	91.0	\$498.00
KSC-531002LH	20" LEFT HAND Liquid Coulter Arm w/ shaft and 20" fluted crucible blade	91.0	\$525.00
KSC-666460	Berm conditionerfor 1 X 2 or 1-1/4 X 2 flat-way shanks, convex basket	65.0	\$610.00
KSC-666461	Berm conditionerfor 1 X 2 or 1-1/4 X 2 flat-way shanks, concave basket	65.0	\$610.00



Berm conditioner baskets available for about any toolbar shank-style !!

Building or repairing a toolbar?

- *Side dress or liquid bar
- *Strip till
- *Conventional applicator
- *Chisel bar

TPD has all of the components needed below the toolbar !!!
 Many components are not listed here,
 just call us if you are repairing or rebuilding your toolbar !

Part Number	Anhydrous bar disc sealers	WEIGHT	RETAIL
KSC-441100	Sealer assy with 2ea 18DB11-NO (blades) and U-bolts 1 X 2 flat shanks	70.0	\$515.00
KSC-441200	Sealer assy with 2ea 18DB11-NO (blades) and U-bolts edge-bent shanks	70.0	\$515.00



Disc sealer assemblies are shipped "nearly fully assembled"
 5 different sealer blade types are available
 from 14" smooth to 17" wavy to 18" notched or smooth

Fertilizer toolbar shanks are 100% Made In USA using domestic 5160 chromium manganese steel !
Coil shanks and Flat-way shanks to fit most modern toolbars !

Part Number	SHANKS	WEIGHT	RETAIL
KSC-90	DMI Shank 1-1/4" square	30.0	\$92.41
KSC-91	Clark 3 Hole Front Mount, 1-1/4" square	34.0	\$98.01
KSC-92	Wilmar or Dempster, 1-1/4" square	32.0	\$94.28
KSC-93	TCI Stubby Shank, 1-1/4" square	31.0	\$94.28
KSC-94	Universal 1 Hole, 1-1/4" square	30.0	\$92.41
KSC-95	Titan or Blue Jet, 1-1/4" square, most common coil shank	33.0	\$86.81
KSC-96	Champion Shank, 1-1/4" square	31.0	\$88.68
KSC-97	John Blue Long, 1-1/4" square	32.0	\$92.41
KSC-98	John Blue Short, 1-1/4" square	30.0	\$99.88
KSC-1290	DMI Flat Shank, 1 X 2, no soil end holes	19.0	\$46.42
KSC-1295	Flatten Side Blue Jet, 1 X 2 BluJet flat way shank, NOT edge bent	20.0	\$48.21
KSC-1298	Flatten Side Mount DMI, 1 X 2 standard shank, NOT edge bent	22.0	\$50.00
KSC-1298WP	Flatten Side Mount DMI w/Locating Pin	22.0	\$53.39
KSC-1299	Flatten Side Mount DMI, HEAVY DUTY 1-1/4 X 2"	28.0	\$71.78

SHANK DIMENSIONS AVAILABLE UPON REQUEST



Part Number	Lollipop shank mount eyebolts	WEIGHT	RETAIL
KSC-384i1142	4" bar Eye Bolt w/hdwre for 1-1/4" square, 1x2" or 1-1/4 X 2 shanks	1.3	\$19.99
KSC-386i6	6" bar Eye Bolt w/hdwre for 1-1/4" square, 1x2" or 1-1/4 X 2 shanks	1.5	\$24.49



Eyebolt clamp sets available to fit all standard toolbar sizes, call TPD for a rigid clamp to suit your application



TillagePartsDirect.com

Acra Plant Side Mount Quick Change Fertilizer Knives and Parts

Item	Description	Weight	Retail
AP-711	Acra Knife Shank w/ 3/8" NH3 tube (.408" OD, for 3/8" NH3 hose), no point, Replaces AP-700010	4.6	\$40.63
AP-711/3/4DA	Acra Knife Shank w/ 3/8" NH3 tube and 3/4" Vapor Tube, no point, Replaces AP-700010V	5.4	\$62.15
AP-700041	STANDARD ACRA KNIFE POINT w/PIN	4.3	\$29.84
AP-700043	ACRA HEAVY DUTY SUPER WING POINT WITH PIN	4.4	\$33.28
AP-700042-ST	Strip Till Point Acra Knife Series	4.0	\$34.44
AP-700044	ACRA CLOSER POINT w/PIN	3.8	\$48.79

All Acra-Plant fertilizer knives and replacement points have been improved for longer wear life and durability in modern high-horsepower environments !
 All types of fertilizer tubes and knife configurations, including dry fertilizer, are now available.
 Call TPD for a quote on your special application !!!



ACRA PLANT
FERTILIZER KNIFE
WITH AP-700041



AP-700042-ST
STRIP TILL



AP-700043
HD conventional



AP-700044
SUPER SEALER

Acra Plant Chisel Plow Fertilizer Knives and Parts

Item	Description	Weight	Retail
AP-705011	Nickel Alloy Chisel Plow Shank	4.4	\$30.23
AP-705020	3/8" NH3 tube (.408" OD), crimped and drilled	0.3	\$10.01
AP-705021	3/8" Liquid tube (.408" OD), open end	0.3	\$9.75
AP-705029	Tube Mounting bracket kit	0.5	\$12.62
AP-705042	Enhanced Chrome Alloy Chisel Plow Point w/pin	4.1	\$31.02
AP-705141	Chrome Alloy Chisel Plow Point with pin	3.9	\$31.90
AP-708003	Adjusting Wedge for AP-705000	0.5	\$9.99

Convert your chisel plow to an efficient fertilizer applicator !!!
 With interchangeable points, you can go from fertilizer application to standard chisel operation in minutes by just changing the tip !!



ACRA PLANT
CHISEL



AP-705011
Alloy shank



AP-705042
Fertilizer point



AP-705141
Chisel point

CPK-1E



CPK-1E/3/4DA



Heaviest chrome carbide wear point in the industry !
 Universal front mount using plow bolts to fit just about any chisel shank out there !

Part Number	CHISEL PLOW	WEIGHT	RETAIL
CPK-1	Single 3/8" NH3 tube, CHISEL PLOW	5.8	\$36.07
CPK-1/1/2A	Single 1/2" NH3 tube, CHISEL PLOW	6	\$39.95
CPK-1E	Single 3/8" NH3 tube w/ trash guard, CHISEL PLOW	6.2	\$41.99
CPK-1E/1/2A	Single 1/2" NH3 tube w/ trash guard, CHISEL PLOW	6.3	\$44.49
CPK-1E/3/4DA	3/8" NH3 tube and 3/4" Vapor Tube w/trash guard, CHISEL PLOW	7.3	\$59.99

DF-1PM



DF-1PM/3/4DA



DF-1PM knives are 16" tall with universal mounting hole/slot
 Self-sealing in most applications

When ordering, specify OPEN END or DRILLED primary fertilizer tubes

Part Number	Shield MOLE/Deep Furrow	WEIGHT	RETAIL
DF-1PM	Single 3/8" NH3 tube	7.2	\$39.99
DF-1PM/3/4DA	3/8" NH3 & 3/4" vapor tube	7.8	\$59.99
DF-1PM/DA	3/8" NH3 & 3/8" open end tubes	7.6	\$49.99
DF-1PM/DA/3/4	3/8" NH3 & 3/8" open end tubes and 3/4 vapor tube	8.4	\$69.99
DF-1PM/ST	Single 3/8" NH3 tube with Strip till protection STRIP TILL	10.3	\$79.99
DF-1PM/ST/3/4DA	3/8" NH3 & 3/4" open end tubes and strip till protection STRIP TILL	11.1	\$99.99

K-2T



K-2T/3/4DA



K-2T knives use upright universal mounting shanks and are 15" tall to fit most standard fertilizer rigs

Part Number	Upright conventional knives	WEIGHT	RETAIL
K-2T	Single 3/8" NH3 tube	6.2	\$34.99
K-2T/3/4DA	3/8" NH3 & 3/4" open end tubes	7.2	\$59.99
K-2T/3/4DA/PLSPL	3/8" NH3 & 3/4" open end tubes with sealer	7.8	\$68.99
K-2T/O	Single 3/8" open end tube	6.2	\$34.99
K-2T/O/3/4DA	3/8" OPEN & 3/4" open end tubes	7.2	\$59.99
K-2T/O/3/4DA/PLSPL	3/8" OPEN & 3/4" open end tubes with sealer	7.8	\$68.99
K-2T/O/PLSPL	Single 3/8" OPEN tube with sealer	7	\$37.99
K-2T/PLSPL	Single 3/8" NH3 tube with sealer	7	\$37.99

NEW FOR 2018 !

K-5SBSST

K-7S



K-5F50
Forged 13"
Coulter knife



Part Number	Liquid applicator (side dress) knives	WEIGHT	RETAIL
K-33607014BB	Boron Steel thin knife for DMI coulters rigs, 3/8" open-end tube	4.2	\$45.99
K-33607014BBSST	Boron Steel thin knife for DMI coulters rigs, 3/8" tube w/SURFA-SHIELD	4.3	\$51.99
K-4TSBS/BSST	14" Tall Backswept, 3/8" Tube, 5/16" Boron steel w/SURFA-SHIELD	3.6	\$46.99
K-5SBSST	Boron Steel thin knife , 3/8" open end tube with SURFA-SHIELD	4.4	\$46.99
K-5SHDWREKIT	Hardware kit for thin knives, includes cushion	1	\$14.99
K-7S	Chrome knife for coulters systems, accepts 3/8" flex hose	5.5	\$46.99
K-5F50	Forged 3/8 X 13" side dress knife with 3/8" tube, NEW FOR 2018 !!	3.7	\$21.99

Call TPD if you don't see the side dress knife you want for your rig, we probably have one !!

K-4T



K-4T/3/4DA



16" tall front swept knives designed to "take the ground" in the toughest conditions. Universal shank mount is the same as our DF-1PM series knives.

When ordering, specify OPEN END or DRILLED primary fertilizer tubes

Part Number	Front Swept knives	WEIGHT	RETAIL
K-4T	Single 3/8" NH3 tube	6.6	\$34.99
K-4T/3/4DA	3/8" NH3 & 3/4" open end tubes	7.4	\$58.99
K-4TS	Single 3/8" NH3 tube, SLIM NO-TILL	5.5	\$35.99
K-4TS/3/4DA	3/8" NH3 & 3/4" open end tubes, SLIM NO-TILL	6.5	\$64.99
K-4TS/DA	3/8" NH3 & 3/8" open end tubes, SLIM NO-TILL	6.4	\$59.99
K-4TS/DA/3/4DA	3/8" NH3 & 3/8" open end tubes and 3/4 vapor tube, SLIM NO-TILL	7.2	\$64.99

K-4TSDF

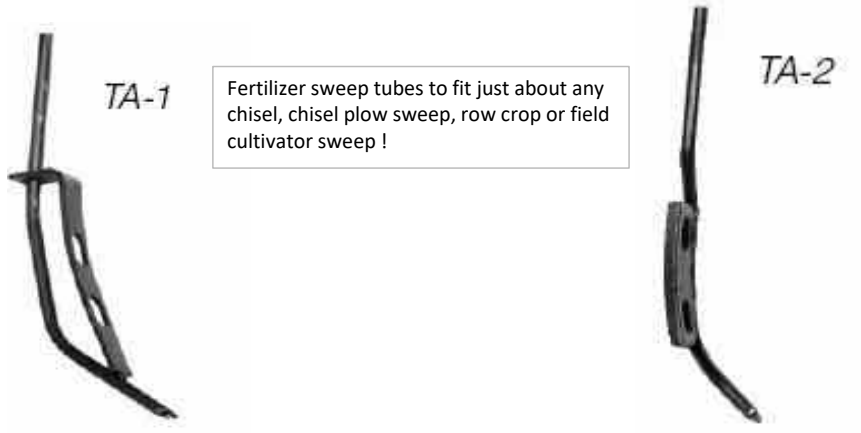


K-4TSDF/3/4DA



SHREW knives are min-till 3/8 X 2-1/2 knives made to give a little fracture and lift for good sealing without a lot of surface

Part Number	SHREW knives, miniature DF Mole knife	WEIGHT	RETAIL
K-4TSDF	SHREW with 3/8" drilled tube mini DF	6	\$35.99
K-4TSDF/DA	SHREW with 3/8" drilled and 3/8" open tubes	6.9	\$46.99
K-4TSDF/3/4DA	SHREW with 3/8" drilled tube and 3/4" vapor tube	7.1	\$55.99



Part Number	Sweep and chisel tubes to convert	WEIGHT	RETAIL
TA-1	Center Mount Chisel Plow and Sweep Tube	0.65	\$11.99
TA-2	Side Mount Chisel Plow and Sweep Tube	0.68	\$12.99
TA-3	Side Mount Sweep Tube for Chisel Plow Sweeps and Field cultivators	0.69	\$35.99



TillagePartsDirect.com

Boxed Bolt & Nut Kits and bulk purchase bolts/nuts



P/N	Box of Bolts and Nuts	Box Quantity	Weight per box	BOLTS ONLY	Weight per 100	Retail
1-1	1/4-20 X 1" w/ square nut, drill points	100	2.3	Z1-1	1.6	\$30.90
1-3	1/4-20 X 1-1/2" w/ square nut, drill points	100	2.9	Z1-3	2.2	\$36.04
2-2	3/8-16 X 1-1/4 Plow Bolt/nut	100	5.8	Z2-2	4	\$24.65
2-3	3/8-16 X 1-1/2 Plow Bolt/nut	100	6.3	Z2-3	4.7	\$26.43
3-3	7/16-14 X 1-1/2 Plow Bolt/nut	50	5	Z3-3	6	\$19.92
3-4	7/16-14 X 1-3/4 Plow Bolt/nut	50	5.3	Z3-4	7.1	\$25.80
3-5	7/16-14 X 2 Plow Bolt/nut	50	5.6	Z3-5	8.2	\$27.50
3-7	7/16-14 X 2-1/2 Plow Bolt/nut	50	6.2	Z3-7	10.4	\$29.86
4-3	1/2-13 X 1-1/2 Plow Bolt/standard nut	50	6.5	Z4-3	8.7	\$24.57
4-3H	1/2-13 X 1-1/2 Plow Bolt/heavy nut	50	7.5	Z4-3	8.7	\$28.87
4-3JH	1/2-13 X 1-1/2 Plow Bolt/heavy JAM nut	50	6.5	Z4-3	8.7	\$29.82
4-4	1/2-13 X 1-3/4 Plow Bolt/standard nut	50	7	Z4-4	9.9	\$27.98
4-4H	1/2-13 X 1-3/4 Plow Bolt/heavy nut	50	7.75	Z4-4	9.9	\$32.30
4-4JH	1/2-13 X 1-3/4 Plow Bolt/heavy JAM nut	50	7	Z4-4	9.9	\$33.24
4-5	1/2-13 X 2 Plow Bolt/standard nut	50	7.5	Z4-5	11.3	\$30.09
4-5H	1/2-13 X 2 Plow Bolt/heavy nut	50	8	Z4-5	11.3	\$32.07
4-6	1/2-13 X 2-1/4 Plow Bolt/standard nut	50	8	Z4-6	12.4	\$35.54
4-6H	1/2-13 X 2-1/4 Plow Bolt/heavy nut	50	8.5	Z4-6	12.4	\$39.82
4-7	1/2-13 X 2-1/2 Plow Bolt/standard nut	50	9	Z4-7	14.1	\$36.68
4-8	1/2-13 X 2-3/4 Plow Bolt/standard nut	50	9.2	Z4-8	15.5	\$42.95
4-9	1/2-13 X 3 Plow Bolt/standard nut	50	9.5	Z4-9	16.8	\$43.15
4-91	1/2-13 X 3-1/2 Plow Bolt/standard nut	50	10	Z4-91	19.5	\$46.32
P/N	Plow Bolts with oversize heads					
H2-3	3/8-16 X 1-1/2 with 7/16" plow head w/Nut	100	5.9	ZH2-3	4.8	\$37.85
H3-4	7/16-14 X 1-1/2 with 1/2" plow head w/Nut	50	6	ZH3-4	6.2	\$31.21
H3-7	7/16-14 X 2-1/4 with 1/2" plow head w/Nut	50	7	ZH3-7	8	\$37.19

P/N	Grade 5 Nuts, purchase in bulk	Box Quantity	Weight per 100	Retail
N1	1/4-20 Square Nut	100	0.7	\$7.11
N2	3/8-16 Hex Nut	100	1.6	\$6.36
N3	7/16-14 Hex Nut	100	2.8	\$6.62
N4	1/2-13 Hex Nut	100	4	\$6.87
N4H	1/2-13 Heavy Hex Nut	100	6.6	\$14.46
N4JH	1/2-13 Heavy Hex Jam Nut	100	4.1	\$7.87
N5	5/8-11 Hex Nut	100	7.4	\$18.60
N6	3/4-10 Hex Nut	100	12	\$32.00

Please order BULK BOLTS and BULK NUTS in even Quantities of 100ea

ShieldAg Stocks
1000's of Hex Bolts Too
Ask us for a quote !!

SHIELDAG U-BOLTS

- ALL U-BOLTS ARE FURNISHED WITH NUTS AND LOCKWASHERS
- ZINC PLATED FOR CORROSION RESISTANCE
- ASME GRADE 5 FOR STRENGTH AND TOUGHNESS, WITHOUT BEING BRITTLE
- PULL-TESTED TO MEET ASME AND ASAE SPECIFICATIONS
- LARGE INVENTORY OF MOST COMMON SIZES

SHIELDAG U-BOLTS ARE MADE IN USA !!!



NOTE: ALL MEASUREMENTS ARE VERTICAL FIRST (LEG LENGTH) BY HORIZONTAL SECOND (INSIDE WIDTH)

SIZE	PART NUMBER	DESCRIPTION, VERT X WIDTH X THREADS	TOOLBAR	LEG LENGTH	WIDTH	WEIGHT	RETAIL
1/4"	AP-500536	U-BOLT, 1 X 0.5625 X 1/4-20	N/A	1	9/16	0.06	\$2.13
5/16"	AP-500559	U-BOLT, 2.5 X 1.5 X 5/16-18	1.5X1.5	2 1/2	1 1/2	0.16	\$3.59
3/8"	AP-500541	J-BOLT, 2 X 0.5625 X 3/8-16	J-BOLT	2	9/16	0.12	\$2.28
	AP-500556	U-BOLT, 4 X 1.5 X 3/8-16	3X1.5	4	1 1/2	0.32	\$4.14
	AP-500561	U-BOLT, 5.25 X 4 X 3/8-16	4X4	5 1/4	4	0.35	\$4.31
	AP-500576	U-BOLT, 5 X 6.0625 X 3/8-16	4X6	5	6	0.44	\$4.37
	AP-500573	U-BOLT, 7 X 6 X 3/8-16	6X6	7	6	0.48	\$4.44
	AP-500562	U-BOLT, 7.25 X 4 X 3/8-16	6X4	7 1/4	4	0.50	\$4.54
	AP-500577	U-BOLT, 7.875 X 7 X 3/8-16	7X7	7 7/8	7	0.55	\$4.63
7/16"	AP-500575	U-BOLT, 6 X 5.125 X 7/16-14	5X5	6	5 1/8	0.65	\$7.59
1/2"	AP-500523	U-BOLT, 1.75 X 3.0625 X 1/2-13	N/A	1 3/4	3	0.40	\$4.26
	AP-505525	U-BOLT, 2.5 X 2 X 1/2-13	1X2	2 1/2	2	0.42	\$4.45
	AP-500525	U-BOLT, 3.25 X 2.0625 X 1/2-13	2X2	3 1/4	2	0.49	\$4.99
	AP-500527	U-BOLT, 3.25 X 6 X 1/2-13	2X6	3 1/4	6	0.68	\$7.19
	AP-305648	U-BOLT, 3.5 X 1.25 X 1/2-13	N/A	3 1/2	1 1/4	0.45	\$6.95
	AP-500526	U-BOLT, 4.375 X 2 X 1/2-13	3X2	4 3/8	2	0.58	\$5.75
	AP-500524	U-BOLT, 4.25 X 3.0625 X 1/2-13	3X3	4 1/4	3	0.62	\$5.59
	AP-505528	U-BOLT, 4.25 X 5.0625 X 1/2-13	3X5	4 1/4	5	0.73	\$6.09
	AP-405648	U-BOLT, 4.5 X 1.25 X 1/2-13	N/A	4 1/2	1 1/4	0.55	\$5.75
	AP-505265	U-BOLT, 5 X 3.5 X 1/2-13	3.5X3.5	5	3 1/2	0.73	\$6.61
	AP-505125	U-BOLT, 5.25 X 4 X 1/2-13	4X4	5 1/4	4	0.74	\$6.15
	AP-505123	U-BOLT, 5.25 X 6 X 1/2-13	4X6	5 1/4	6	0.84	\$7.47
	AP-505120	U-BOLT, 6.5 X 5 X 1/2-13	5X5	6 1/2	5	0.90	\$7.76
	AP-505122	U-BOLT, 7.25 X 4 X 1/2-13	6X4	7 1/4	4	0.92	\$8.04
	AP-505121	U-BOLT, 7.5 X 6 X 1/2-13	6X6	7 1/2	6	1.05	\$8.17
	AP-515753	U-BOLT, 8.25 X 5 X 1/2-13	7X5	8 1/4	5	1.13	\$8.04
AP-515755	U-BOLT, 8.25 X 7 X 1/2-13	7X7	8 1/4	7	1.27	\$8.51	
5/8"	AP-505545	U-BOLT, 3.5 X 2.0625 X 5/8-11	2X2	3 1/2	2	0.80	\$5.46
	AP-505546	U-BOLT, 4 X 2.5 X 5/8-11	2.5X2.5	4	2 1/2	0.90	\$5.50
	AP-505174	U-BOLT, 4.25 X 3 X 5/8-11	3X3	4 1/2	3	0.95	\$5.52
	AP-500522	U-BOLT, 4.5 X 4 X 5/8-11	3X4	4 1/2	4	1.00	\$5.87
	AP-505130	U-BOLT, 5.5 X 2 X 5/8-11	4X2	5 1/2	2	1.00	\$5.87
	AP-500529	U-BOLT, 5.5 X 4 X 5/8-11	4X4	5 1/2	4	1.10	\$6.00
	AP-505529	U-BOLT, 5.5 X 6 X 5/8-11	4X6	5 1/2	6	1.35	\$7.20
	AP-500539	U-BOLT, 6.5 X 5 X 5/8-11	5X5	6 1/2	5	1.40	\$8.32
	AP-500537	U-BOLT, 6.5 X 7 X 5/8-11	5X7	6 1/2	7	1.52	\$9.06
	AP-500542	U-BOLT, 7.5 X 2 X 5/8-11	6X2	7 1/2	2	1.30	\$7.82
	AP-505530	U-BOLT, 7.5 X 4 X 5/8-11	6X4	7 1/2	4	1.55	\$7.91
	AP-505018	U-BOLT, 7.5 X 6 X 5/8-11	6X6	7 1/2	6	1.60	\$8.30
	AP-500550	U-BOLT, 8.125 X 2 X 5/8-11	7X2	8 1/8	2	1.40	\$7.28
	AP-500554	U-BOLT, 8.5 X 3 X 5/8-11	7X3	8 1/2	3	1.52	\$7.65
	AP-500551	U-BOLT, 8.125 X 4 X 5/8-11	7X4	8 1/8	4	1.55	\$7.75
	AP-505025	U-BOLT, 8.5 X 5 X 5/8-11	7X5	8 1/2	5	1.65	\$11.47
	AP-500538	U-BOLT, 8.5 X 7 X 5/8-11	7X7	8 1/2	7	1.75	\$9.83
	AP-505533	U-BOLT, 10 X 4 X 5/8-11	N/A	10	4	1.75	\$12.77
	AP-505131	U-BOLT, 10 X 5 X 5/8-11	N/A	10	5	1.85	\$13.11
AP-500578	U-BOLT, 14 X 8 X 5/8-11	8X8	14	8	2.57	\$15.51	
AP-500579	U-BOLT, 17 X 8 X 5/8-11	8X8	17	8	3.12	\$16.83	

SIZE	PART NUMBER	DESCRIPTION, VERT X WIDTH X THREADS	TOOLBAR	LEG LENGTH	WIDTH	WEIGHT	RETAIL
3/4"	AP-500543	U-BOLT, 3.5 X 2 X 3/4-10	2X2	3 1/2	2	1.17	\$5.18
	AP-505336	U-BOLT, 4 X 2 X 3/4-10	3X2	4	2	1.30	\$5.87
	AP-500546	U-BOLT, 4.25 X 3 X 3/4-10	3X3	4 1/4	3	1.50	\$7.88
	AP-500528	U-BOLT, 4.375 X 5 X 3/4-10	3X5	4 3/8	5	1.79	\$8.22
	AP-505133	U-BOLT, 4.75 X 5 X 3/4-10	3X5	4 3/4	5	1.89	\$8.28
	AP-500545	U-BOLT, DIAMOND, 5 X 3.375 X 3/4-10	2.25X2.25	5	3 3/8	1.74	\$9.58
	AP-500548	U-BOLT, 5 X 3.5 X 3/4-10	3.5X3.5	5	3 1/2	1.76	\$8.17
	AP-505333	U-BOLT, 5.25 X 2 X 3/4-10	4X2	6	2	1.63	\$7.82
	AP-500531	U-BOLT, 5.5 X 4 X 3/4-10	4X4	5 1/2	4	1.95	\$9.36
	AP-505532	U-BOLT, 5.5 X 6 X 3/4-10	4X6	5 1/2	6	2.21	\$9.75
	AP-505531	U-BOLT, 5.5 X 7 X 3/4-10	4X7	5 1/2	7	2.34	\$9.54
	AP-510750	U-BOLT, DIAMOND, 6 X 5.375 X 3/4-10	4X4	6	5 3/8	2.26	\$10.29
	AP-505538	U-BOLT, 6.5 X 3 X 3/4-10	5X3	6 1/2	3	2.42	\$9.75
	AP-505280	U-BOLT, 6.25 X 4.75 X 3/4-10	N/A	6 1/4	4 3/4	2.24	\$10.13
	AP-505126	U-BOLT, 6.5 X 5 X 3/4-10	5X5	6 1/2	5	2.34	\$10.13
	AP-500535	U-BOLT, 6.5 X 7 X 3/4-10	5X7	6 1/2	7	2.60	\$10.51
	AP-500534	U-BOLT, 7.5 X 2 X 3/4-10	6X2	7 1/2	2	2.21	\$10.51
	AP-500532	U-BOLT, 7.5 X 4 X 3/4-10	6X4	7 1/2	4	2.47	\$9.75
	AP-500533	U-BOLT, 7.75 X 6 X 3/4-10	6X6	7 3/4	6	2.80	\$10.51
	AP-510751	U-BOLT, DIAMOND, 8.125 X 7.375 X 3/4-10	7X4	8 1/8	7 3/8	3.07	\$12.43
	AP-510756	U-BOLT, 8.5 X 4.0625 X 3/4-10	7X4	8 1/2	4	2.73	\$10.42
	AP-505128	U-BOLT, 8.5 X 5 X 3/4-10	7X5	8 1/2	5	2.86	\$11.86
	AP-510755	U-BOLT, 8.5 X 7 X 3/4 3/4-10	7X7	8 1/2	7	3.12	\$11.86
	AP-510752	U-BOLT, DIAMOND, 9.625 X 8.3125 X 3/4-10	7X7	9 5/8	8 5/16	3.25	\$13.11
AP-515780	U-BOLT, 9 X 5 X 3/4-10	N/A	9	5	2.99	\$12.08	
AP-505543	U-BOLT, 9 X 7 X 3/4-10	N/A	9	7	3.25	\$12.19	
AP-505134	U-BOLT, 10 X 5 X 3/4-10	N/A	10	5	3.25	\$12.19	
7/8"	AP-500544	U-BOLT, 5.5 X 4 X 7/8-9	4X4	5 1/2	4	2.65	\$10.35
	AP-510757	U-BOLT, 5.75 X 4.0625 X 7/8-9	4X4	5 3/4	4	2.74	\$12.36
	AP-505542	U-BOLT, 8.5 X 6.125 X 7/8-14, FINE THREAD	7X6	8 1/2	6 1/8	4.09	\$16.79
	AP-505132	U-BOLT, 9 X 7 X 7/8-9	7X7	9	7	4.27	\$14.26
1"	AP-505135	U-BOLT, 9 X 7 X 1-8	7X7	9	7	5.63	\$20.47

USE THE U-BOLT IDENTIFICATION GUIDE BELOW TO PROPERLY SIZE YOUR U-BOLT

Radius per tooling requirements OR SPECIFY

ALL SHIELDAG U-BOLTS ARE MADE IN USA & FURNISHED WITH NUTS & LOCKWASHERS

H

W

TL

THREADS

Please Identify your U-bolt so that we can give you a quote !

H = Height or "Leg Length" _____

W = Inside width _____

THREADS = _____
examples: 3/4" course, 1/2" fine

TL = Thread Length _____

Plating required ? _____
Note: U-bolts are plated with EITHER bright zinc or yellow zinc unless specified

REV.	BY	DATE	DESCRIPTION	TOLERANCE UNLESS OTHERWISE NOTED			SHIELD AGRICULTURAL EQUIPMENT	DRAWN BY: MB	DATE: 01-15-15
DESCRIPTION U-BOLT IDENTIFICATION CHART				Per ASME, ASAE specifications				CHECKED BY:	DATE:
							U-BOLTS		REV. NC



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Our HEAVY-DUTY pry-bars are the hottest thing going for farm equipment dealerships & small fab shops. Take advantage of this hot selling pair of pry-bars today.

SPB-1 DOUBLE HOOK BAR

- Dimensions: 1x1x45"
- Weight: 13 Lbs

SPB-1

LIST PRICE: \$31.95



SPB-2 POINT BAR W/HOOK

- 7° double taper
- Dimensions: 1x1x23"
- Weight: 6.5 Lbs

SPB-2

LIST PRICE: \$31.95



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- **Heat Treated & Tempered**
- **150,000 psi Strength**
- **Made in the USA**

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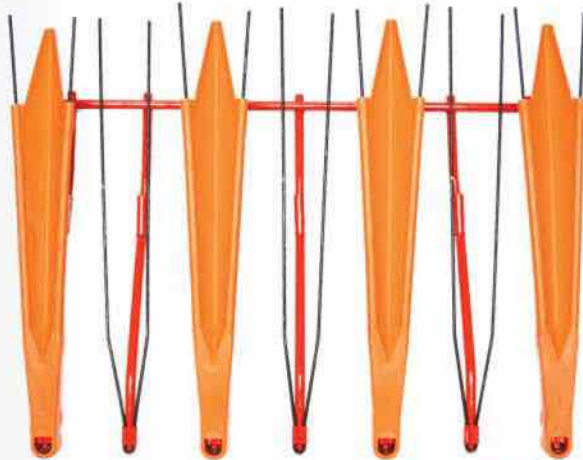
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MILO-GUARDS

EFFECTIVE IN MILO, DWARF SUNFLOWERS AND MORE!

7 Point Section for Standard Headers



3 Point Section for JD Flex



- High-Strength Steel
- Heat-treated Tine Wires
- Auto-Welded Design
- Powder Coat Paint
- Made in USA!

(Shown with Optional Grain Saver Boots)

"The Original Flexible Milo-saving Guard & Grain Saver Boot Attachment."

Measure your savings in equipment performance and in the Bin!

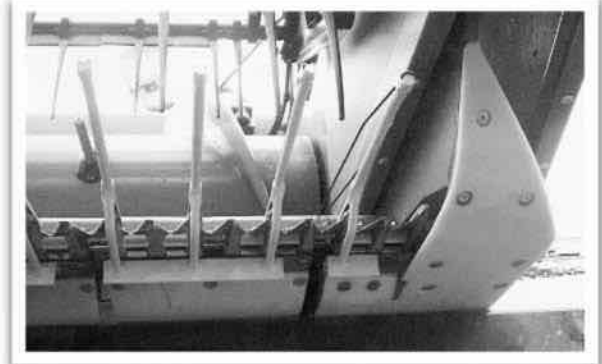
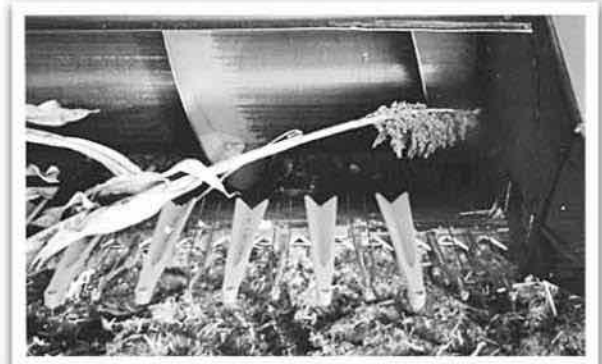
Flexo-Guards reach out 12 inches ahead of the sickle to retrieve and deliver wild heads back to the platform. Our heat-treated flexible spring steel tine wires prevent fall away losses and slide the heads quickly back to the platform. ABM Grain Saver Boots provide added savings by catching lost shatter due to sickle vibration, funneling the grain back to the platform through a specially-designed valley. The Grain Saver Boot Attachment is beneficial in Milo and Dwarf Sunflowers.

- **Save up to 30 Bushels of Milo per Hour**

- To save even more, add our grain saver boots to your Flexo-Guards

- **Depend on Flexo-Guards to:**

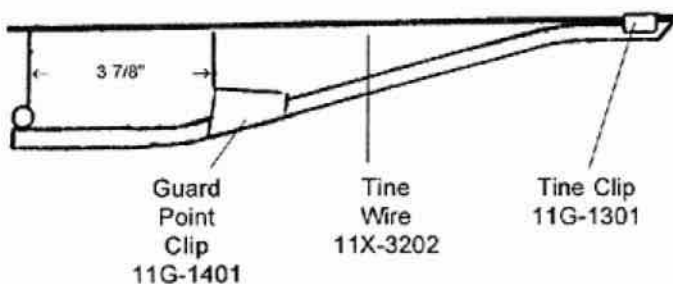
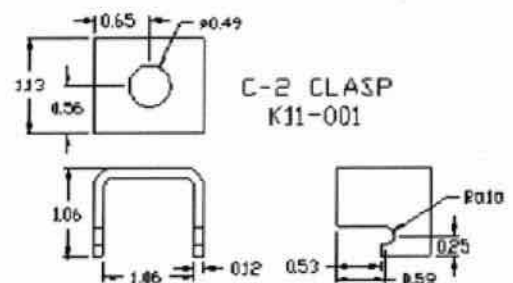
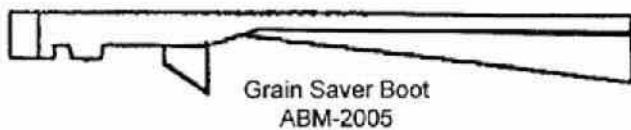
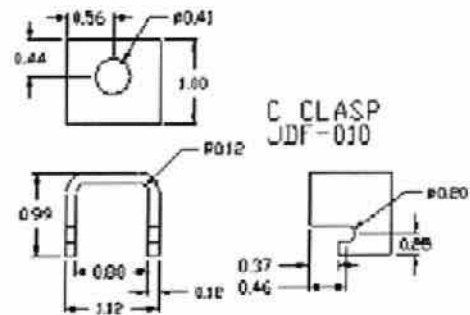
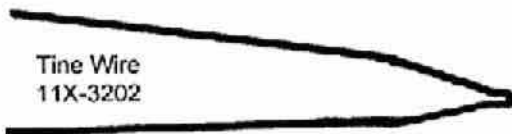
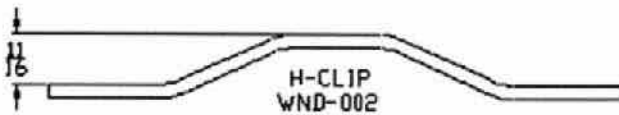
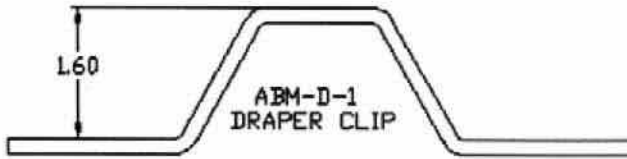
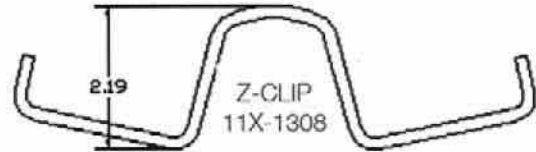
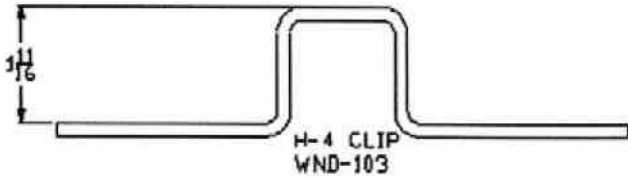
- Prevent fall-away, drop-through and thrown-out heads
- Improve reel action & crop transfer into the header
- Reduce shatter loss for more grain in the bin!





FLEXO GUARD PARTS

For most Standard and Legacy Headers



800-798-1968

Flexo-Guard Installation Instructions



CLASP INSTALLATION — 2 clasps are required per section, one on each side. Place all Flexo Guard sections on guard points for reference. Space clasps accordingly. Remove guard point nut and place clasp in direction shown per **Figure A**. Secure using the same nut removed. Be sure nuts are drawn tight. Clasp should be left in place from season to season to facilitate subsequent installations.

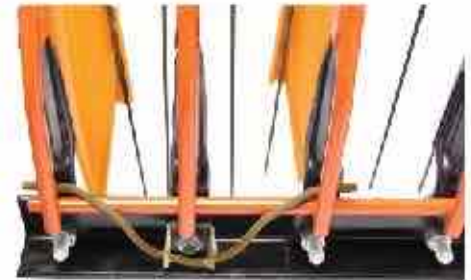


Figure A.

TINE WIRE INSTALLATION — With the Flexo Guard sections mounted firmly in place, compress the ends of the tines together and thread into tine clip holes. Take care not to cross tine wire ends or damage may occur. Push the tine wire through the tine clip as far as possible using hand pressure. When you have completed a section, use a block of wood and a hammer to tap them to their fully seated position as shown in **Figure B**. This will also seat each section properly to better facilitate clip installation. If you are using bolt-on sickle sections you must put ABM Grain Saver Boots on either side of the sickle hold down to prevent tine wire damage. (Hint: If you are using a bolt-on sickle section and you do not have ABM Grain Saver Boots installed, bend the ends of the tine wire down 45 degrees 3" from the end. Do this on tine wires located on either side of the sickle hold down. This will detour the sickle bolts from grabbing the tine wire but will not prevent it.



Figure B.

CLIP INSTALLATION — From below, place both ends over adjacent Flexo Guard fingers centering the clip in front of the clasp previously installed. Using a screwdriver, force the center of the clip toward the clasp using the guard point nut as leverage. A hammer may be needed to tap the clip down the shank of the screwdriver toward the clasp. Make sure clip is fastened securely in clasp hooks. **See Figure A.**

ABM GRAIN SAVER BOOTS — The grain saver boots are made of UV Stabilized High Density Polyethylene material that is weather resistant, long wearing and resists breakage in cold weather. When first received, the Grain Saver Boots will be somewhat stiff. To improve hinging action before the first field run, compress the sides together a few times by hand. This will greatly improve the flexibility for better initial stock feed to sickle and platform.

REEL SET UP INSTRUCTIONS — The center line of your reel needs to be set 5" to 6" from the back of the Grain Saver Boot Attachment to allow proper feed action. Also, it is recommended to leave the reel clearance between 2" to 3" from the top of the Grain Saver Boot Attachment.



Do not allow the tips of the Flexo Guard to ride below 5" from the ground or they may be damaged from ground contact. ABM Manufacturer's Warranty will not cover damage due to ground contact!

800-798-1968

INSTALLATION IS EASY AS 1, 2, 3!

1. To install the Grain Saver Boot, slide it over the Flexo-Guard finger in direction shown in *Figure A*. With a rubber mallet or block of wood and hammer, gently strike the end of the Grain Saver Boot until it is fully seated onto the Flexo Guard Finger. To make sure, check that the Flexo Guard Finger is just touching the inside tip of the Grain Saver Boot. Use the cutout provided on the nose for this inspection.

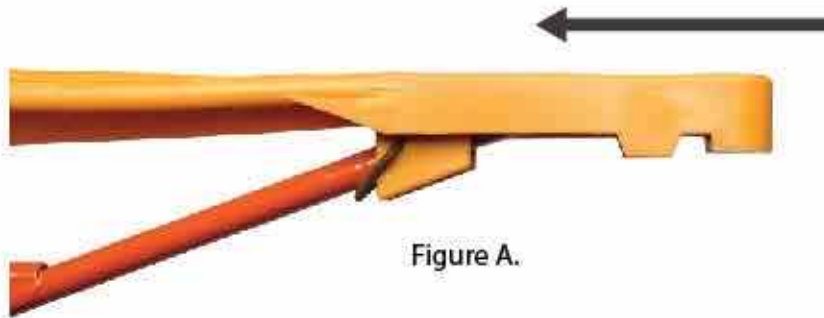


Figure A.

2. When all desired Grain Saver Boots are fitted per step 1, firmly snap the tine wires into the grooves provided starting at the nose and working to the tail. See *Figure B*.



Figure B.

3. Secure the Grain Saver Boots by installing the Hog Rings. Using a pair of Hog Ring pliers or regular Channel Lock pliers, crimp the Hog Ring in the holes provided. Reference *Figure C*, for appropriate Hog Ring angle.



Figure C.

Flexo-Guard

ABM-D-6

This 2 foot wide, 6 finger guard can be used on Deere 600 & 900 series draper heads and the 600 series rigid auger headers with 4 inch guard spacing from long point to long point in the staggered design. This milo guard will fit on John Deere guards with part numbers H213508 & H213405 or H229539.



Kit Part Numbers For Header Widths:

25' FG-925D
30' FG-930D
35' FG-635/R/D
36' FG-936D

****ABM-2005 Grain Saver Boots
SOLD SEPARATELY**

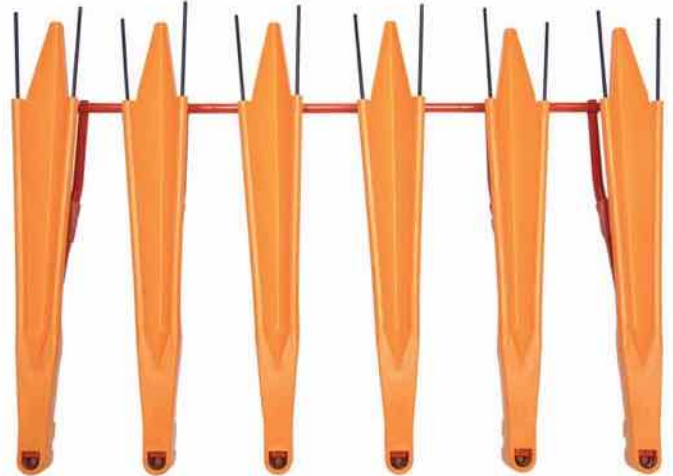
Each 2 foot section requires:

1ea ABM-D-6, 6 Point Milo Guard
2ea JDF-010 Clasps
2ea ABM-D-1J Wire Clips

ABM-2005 Orange Grain Saver Boots are optional, but should be used on every finger to save more grain and keep the tine wires organized.



6ea ABM-2005 Grain Saver Boots, optional



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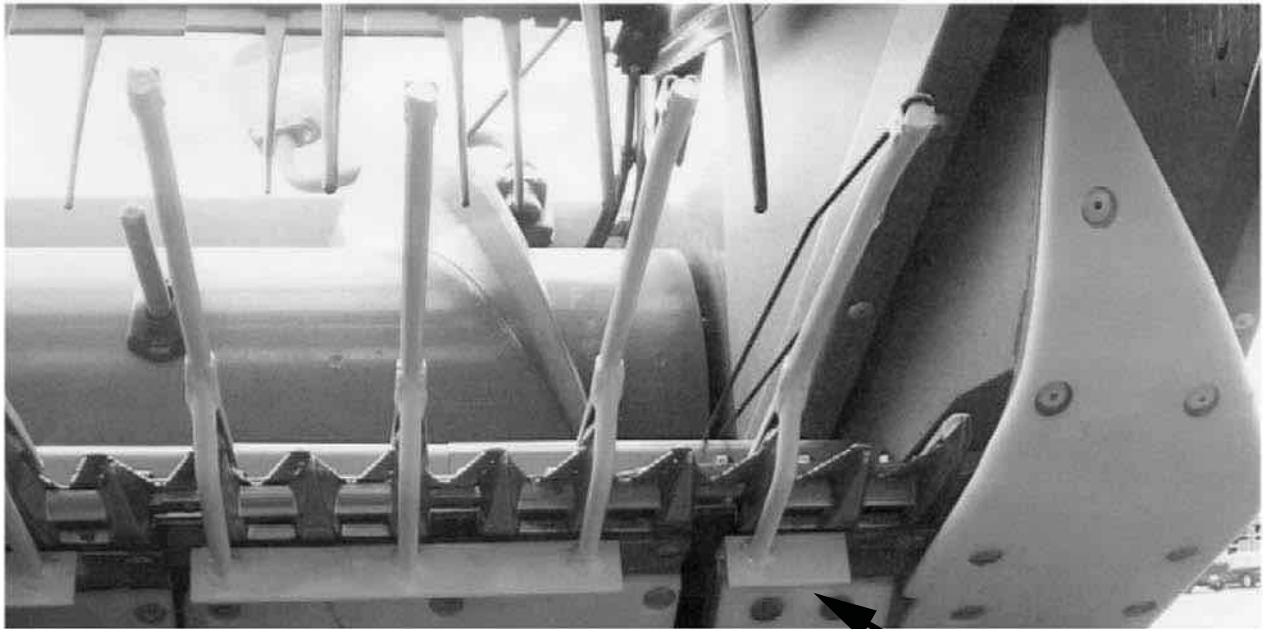


www.abm-mfg.com

FLEXO-GUARD

ABM-D-3F

This is a special 3-PT bolt-on guard to be used on John Deere Flex Heads with 4" guard point centers. This guard will fit on guards listed in the application guide.



1. Start with one exposed guard at the left end of your platform, install the single point ABM-D-3FL.
2. Place the 3-point guard on the next 3 guard points and bolt it into place. Continue bolting on guards until you have one exposed point at the right end of your platform, where you will install the single point ABM-D-3FR.
3. This completes the assembly as needed to cover the guard points. Install the tine wires in each of the Flexo-Guard points tapping in each wire until flush with the end. Then spread the wires approximately 4" to 5" at the extreme points.
4. ABM-2005 Grain Saver Boots installed on every point are optional and recommended to reduce grain losses and keep tine wires organized.

NOTE: You may need longer bolts to compensate for the thickness of the tab on the guard.

*See Deere Application guide for ordering details



JOHN DEERE 200- and 900-series headers with 3" guard point spacing							2018	Optional	Retail Price	Total Kit
Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of Clips	# of Clasps	Wt. Lbs.	Header Kit Retail Price	Grain Saver Boots Quantity Required	For set of GS-boots	Price including GS-Boots
FG-537	14	4	3	14	14	40	\$432.73	26	\$141.50	\$574.23
FG-577	15	1	7	16	16	43	\$476.13	28	\$152.38	\$628.51
FG-617	16	5	3	16	16	46	\$496.76	30	\$163.27	\$660.02
FG-697	18	6	3	18	18	51	\$560.78	34	\$185.04	\$745.82
FG-737	19	3	7	20	20	54	\$604.19	36	\$195.92	\$800.10
FG-777	20	7	3	20	20	58	\$624.81	38	\$206.80	\$831.62
FG-857	22	8	3	22	22	63	\$688.84	42	\$228.57	\$917.41
FG-937	24	9	3	22	22	68	\$745.66	46	\$250.34	\$996.01
FG-997/ 925 Flex	25	8	5	26	26	75	\$806.58	49	\$266.67	\$1,073.25
FG-1177	30	5	11	32	32	86	\$967.73	58	\$315.65	\$1,283.38

Guard Part #	Clasp	Clip	Guard Part #	Clasp	Clip
H-61954	C-2	H-3	H-113571	C	H-3
H-75386	C	H-3	H-145791	C	H-3
H153855 or H25603	C	H-3	H-153719	C	H-3
Other	C	H-3			

↑
One ABM-2005
Grain Saver Boot
On every OTHER Tyne
OPTIONAL

**** NOTE: The 925 FLEX platform uses the same ABM setup as standard 900-series with 3" guard system

JOHN DEERE Draper Headers, 600- and 900-series RIGID DRAPERS and 600-series Rigid Auger, guards on 4" spacing							Optional	Retail Price	Total Kit	
Set #	Cut size (Width ft)	# of ABM-D-6 6-points	# of Clips	# of Clasps	Wt. Lbs.	Header Kit Retail Price	Grain Saver Boots Quantity Required	For set of GS-boots	Price including GS-Boots	
FG-925D	25	12	SEE NOTE	24	24	53	\$664.01	72	\$391.84	\$1,055.85
FG-930D	30	15		30	30	66	\$830.01	90	\$489.80	\$1,319.81
FG-635/R/D	35	17	SEE NOTE	34	34	73	\$940.68	102	\$555.11	\$1,495.79
FG-936D	36	18		36	36	79	\$996.02	108	\$587.76	\$1,583.77
FG-940D	40	20		40	40	85	\$1,845.53	120	\$653.07	\$2,498.60

NOTE: 25' and 35' drapers use 12ea or 17ea 6-point milo guards and leave 6" of each end of header without milo guards

Guard Part #	Clasp	Clip	Part #	Clasp	Clip
H-213405	JDF-010	ABM-D-1J	H-229539	JDF-010	ABM-D-1J
H213508	JDF-010	ABM-D-1J			

↑
One ABM-2005
Grain Saver Boot
On EVERY Tyne
RECOMMENDED

JOHN DEERE Flex Headers, 600- and 900-series FLEX, BOLT-ON guard system, guards on 4" spacing							Optional	Retail Price	Total Kit	
Set #	Cut size (Width ft)	# of ABM-D-3F 3-points	New Bolts Required	One of ea LH & RH finger	Deere Bolt #	Wt. Lbs.	Header Kit Retail Price	Grain Saver Boots Quantity Required	For set of GS-boots	Price including GS-Boots
FG-060 / 620F	20	19	40	2	03M7196	65	\$1,022.25	59	\$321.09	\$1,343.34
FG-066 / 622F	22	21	44	2	03M7196	72	\$1,125.58	65	\$353.74	\$1,479.33
FG-075 / 625F	25	24	48	2	03M7196	82	\$1,280.58	74	\$402.72	\$1,683.30
FG-090F / 630F	30	29	58	2	03M7196	99	\$1,538.91	89	\$484.36	\$2,023.26
FG-105F / 635F	35	34	70	2	03M7196	116	\$1,797.23	104	\$565.99	\$2,363.22

This is a bolt-on 3-point system, purchase bolts from Shield or your dealer, Shield ABM-3M7196 retail \$0.98ea

NEW FOR 2018, Kits will include 1ea Left hand Single finger ABM-D-3FL

and 1ea Right hand Single finger ABM-D-3FR

Guard Part #	NOTE: The most popular headers are 625F, 630F and 635F Guard Description
H213398	Guard with (2) LONG points and (1) SHORT point
H205992	Guard with (2) LONG points and (1) SHORT point
H205448	Guard with (2) LONG points and (1) SHORT point
H229537	Heat-treated Guard with (2) LONG points and (1) SHORT point
H213507	Guard with (1) LONG point and (2) SHORT points
AH213055	Guard with (1) LONG point and (2) SHORT points
H229538	Heat-treated guard with (1) LONG point and (2) SHORT points

↑
One ABM-2005
Grain Saver Boot
On EVERY Tyne
OPTIONAL

CASE IH / INT. HARVESTER, guards on 3" spacing

Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of Clips	# of Clasps	Wt. Lbs.	2018 Header Kit Retail Price	Optional Grain Saver Boots Quantity Required	Retail Price For set of GS-boots	Total Kit Price including GS-Boots
FG-717	18	8	1	18	18	53	\$571.10	35	\$190.48	\$761.58
FG-797	20	9	1	20	20	58	\$635.13	39	\$212.25	\$847.37
FG-877	22	10	1	22	22	68	\$699.16	43	\$234.02	\$933.17
FG-937	24	9	3	24	24	68	\$752.87	46	\$250.34	\$1,003.21
FG-1007	25	9	4	26	26	73	\$811.74	50	\$272.11	\$1,083.85
FG-1207	30	15	0	30	30	88	\$960.43	60	\$326.53	\$1,286.96
FG-118D	30	6	10	32	32	88	\$972.88	59	\$321.09	\$1,293.98
FG-1407	35	0	20	40	40	103	\$1,177.43	70	\$380.95	\$1,558.38
FG-1407 **	36	0	20	40	40	103	\$1,177.43	70	\$380.95	\$1,558.38
FG-136FD	36	17	0	34	34	103	\$1,088.48	68	\$370.07	\$1,458.55
FG-170FD	40	16	6	44	44	114	\$1,377.68	85	\$462.59	\$1,840.27
FG-186FD	45	18	6	48	48	128	\$1,505.74	93	\$506.13	\$2,011.87

** Alternate for RIGID Draper, leaving one guard point exposed

FD headers are Flex-drapers made by MacDon for CNH and New Holland
40' and 45' Flex-drapers use 6ea 7 point Milo-guards in center of header

For All Flex-drapers, cover center of header first, then work out from the main flex joints to cover outboard guards

Guard Part #	Clasp	Clip	Guard Part #	See NOTE: Clasp	Clip
633089	C-2	H-2	118344	C-2 or C	H-4
633240R1	C-2	H-3	87702973	C-2 or C	H-4
1307299	C-2	H-4	118301	C-2 or C	H-4
OTHER	C-2	H-4	87442324	C-2 or C	H-4

Use C-2 Clasp for 7/16" or 12mm bolt

Use C-Clasp for 3/8" or 8mm bolt

↑
**One ABM-2005
Grain Saver Boot
On every OTHER Tyne
OPTIONAL**

Call ABM and we will walk you through what you need
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NEW HOLLAND / FORD, guards on 3" spacing

Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of Clips	# of Clasps	Wt. Lbs.	2018 Header Kit Retail Price	Optional Grain Saver Boots Quantity Required	Retail Price For set of GS-boots	Total Kit Price including GS-Boots
FG-697	18	6	3	18	18	51	\$560.78	34	\$185.04	\$745.82
FG-797	20	9	1	20	20	58	\$635.13	39	\$212.25	\$847.37
FG-877	22	10	1	22	22	68	\$699.16	43	\$234.02	\$933.17
FG-937	24	9	3	24	24	79	\$752.87	46	\$250.34	\$1,003.21
FG-977	25	6	7	26	26	69	\$796.27	48	\$261.23	\$1,057.50
FG-1167	30	11	4	30	30	85	\$939.80	58	\$315.65	\$1,255.45
FG-118D	30	6	10	32	32	88	\$972.88	59	\$321.09	\$1,293.98
FG-971 / Rigid	30	3	12	30	30	86	\$898.54	54	\$293.88	\$1,192.42
FG-1407	35	0	20	40	40	103	\$1,177.43	70	\$380.95	\$1,558.38
FG-1407 **	36	0	20	40	40	103	\$1,177.43	70	\$380.95	\$1,558.38
FG-136FD	36	17	0	34	34	103	\$1,088.48	68	\$370.07	\$1,458.55
FG-170FD	40	16	6	44	44	114	\$1,377.68	85	\$462.59	\$1,840.27
FG-186FD	45	18	6	48	48	128	\$1,505.74	93	\$506.13	\$2,011.87

** Alternate for RIGID Draper, leaving one guard point exposed

FD headers are Flex-drapers made by MacDon for CNH and New Holland
40' and 45' Flex-drapers use 6ea 7 point Milo-guards in center of header

For All Flex-drapers, cover center of header first, then work out from the main flex joints to cover outboard guards

Guard Part #	Clasp	Clip	Guard Part #	See NOTE: Clasp	Clip
65327	C-2	H-3	118344	C-2 or C	H-4
695501	C-2	H-4	87702973	C-2 or C	H-4
8652187	C-2	H-4	118301	C-2 or C	H-4
858778	C-2	H-4	87442324	C-2 or C	H-4
134024	C	H-3	86615982	C-2	H-4
219191	C-2	H-4	Use C-2 Clasp for 7/16" or 12mm bolt		
8653340DS	C-2	H-4	Use C-Clasp for 3/8" or 8mm bolt		
OTHER	C-2	H-4			

↑
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MASSEY FERGUSON/MASSEY HARRIS, guards on 3" centers

Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of Clips	# of Clasps	Wt. Lbs.	2018 Header Kit Retail Price	Optional Grain Saver Boots Quantity Required	Retail Price For set of GS-boots	Total Kit Price including GS-Boots
FG-507	13	1	6	14	14	38	\$417.26	25	\$136.06	\$553.31
FG-547	14	5	2	14	14	41	\$437.89	27	\$146.94	\$584.82
FG-587	15	2	6	16	16	44	\$481.29	29	\$157.82	\$639.11
FG-627	16	6	2	16	16	45	\$501.91	31	\$168.71	\$670.62
FG-707	18	7	2	18	18	52	\$565.94	35	\$190.48	\$756.42
FG-787	20	8	2	20	20	58	\$629.97	39	\$212.25	\$842.22
FG-947	24	10	2	24	24	69	\$758.03	47	\$255.78	\$1,013.81
FG-1167	30	11	4	30	30	86	\$939.80	58	\$315.65	\$1,255.45
FG-1407 35' draper	35	0	20	35	35	103	\$1,159.41	70	\$380.95	\$1,540.37

35' Massey 9250 Draper uses JDF-10 C-Clasp and WND-004 H-3 Clip, Same as Gleaner Model 9250

Guard Part #	Clasp	Clip	Guard Part #	Clasp	Clip
BC258AC	C	H-3	OTHER	C	H-3
BC240AC	C	H-3			

↑
One ABM-2005
Grain Saver Boot
On every OTHER Tyne
OPTIONAL

GLEANER/DUETZ/ALLIS CHALMERS, guards on 3" spacing

Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of Clips	# of Clasps	Wt. Lbs.	2018 Header Kit Retail Price	Optional Grain Saver Boots Quantity Required	Retail Price For set of GS-boots	Total Kit Price including GS-Boots
FG-667	17	3	6	18	18	49	\$545.31	33	\$179.59	\$724.91
FG-707	18	7	2	18	18	52	\$565.94	35	\$190.48	\$756.42
FG-747	19	4	6	20	20	55	\$609.34	37	\$201.36	\$810.70
FG-787	20	8	2	20	20	58	\$629.97	39	\$212.25	\$842.22
FG-867	22	9	2	22	22	63	\$694.00	43	\$234.02	\$928.01
FG-907	23	6	6	24	24	66	\$737.40	45	\$244.90	\$982.30
FG-947	24	10	2	24	24	69	\$758.03	47	\$255.78	\$1,013.81
FG-1127	27	0	16	32	32	81	\$941.94	56	\$304.76	\$1,246.71
FG-1207	30	15	0	30	30	88	\$960.43	60	\$326.53	\$1,286.96
FG-1407 35' draper	35	0	20	35	35	103	\$1,159.41	70	\$380.95	\$1,540.37

35' Gleaner Draper uses JDF-10 C-Clasp and WND-004 H-3 Clip, Gleaner Model 9250

Guard Part #	Clasp	Clip	Guard Part #	Clasp	Clip
71341601	C	H-4	OTHER	C	H-4
1116504	C	H-3			

↑
One ABM-2005
Grain Saver Boot
On every OTHER Tyne
OPTIONAL

Challenger/Lexion, guards on 3" spacing

Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of Clips	# of Clasps	Wt. Lbs.	2018 Header Kit Retail Price	Optional Grain Saver Boots Quantity Required	Retail Price For set of GS-boots	Total Kit Price including GS-Boots
FG-1007	25	9	4	26	26	73	\$811.74	50	\$272.11	\$1,083.85
FG-1207	30	15	0	30	30	88	\$960.43	60	\$326.53	\$1,286.96
FG-1387 / F535	35	5	14	38	38	103	\$1,144.34	69	\$375.51	\$1,519.85
FG-1607	40	13	8	42	42	118	\$1,303.34	80	\$435.38	\$1,738.72

The Lexion F535 uses 38ea WND-004 H-3 Clip and the K11-001 C-2 Clasp

To Select Clips and Clasps for Challenger/Lexion/Claas Combines, please call us with your Guard Part Numbers, Guard Bolt Diameters and any special guard configurations

↑
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MACDON, guards on 3" guards

Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of Clips	# of Clasps	Wt. Lbs.	2018 Header Kit Retail Price	Optional Grain Saver Boots Quantity Required	Retail Price For set of GS-boots	Total Kit Price including GS-Boots
FG-1207	30	15	0	30	30	86	\$960.43	60	\$326.53	\$1,286.96
FG-1407	35	0	20	40	40	103	\$1,177.43	70	\$380.95	\$1,558.38
FG-1447	36	18	0	36	36	102	\$1,152.51	72	\$391.84	\$1,544.35
FG-136FD	36	17	0	34	34	103	\$1,088.48	68	\$370.07	\$1,458.55
FG-170FD	40	16	6	44	44	114	\$1,377.68	85	\$462.59	\$1,840.27
FG-186FD	45	18	6	48	48	128	\$1,505.74	93	\$506.13	\$2,011.87

FD headers are Flex-drapers also made for CNH and New Holland
 40' and 45' Flex-drapers use 6ea 7 point Milo-guards in center of header
 For All Flex-drapers, cover center of header first, then work out from the main flex joints to cover outboard guards

Guard Part #	Clasp	Clip	Guard Part #	Clasp	Clip
23064	C-2	H-4	118344	C-2 or C	H-4
26370	C-2	H-4	87702973	C-2 or C	H-4
OTHER	C-2	H-4	118301	C-2 or C	H-4
			87442324	C-2 or C	H-4

Use C-2 Clasp for 7/16" or 12mm bolt Use C-Clasp for 3/8" or 8mm bolt

↑
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WHITE, guards on 3" centers

Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of Clips	# of Clasps	Wt. Lbs.	2018 Header Kit Retail Price	Optional Grain Saver Boots Quantity Required	Retail Price For set of GS-boots	Total Kit Price including GS-Boots
FG-437	11	1	5	12	12	44	\$358.39	21	\$114.29	\$472.67
FG-517	13	2	5	14	14	39	\$422.41	25	\$136.06	\$558.47
FG-597	15	3	5	16	16	44	\$486.44	29	\$157.82	\$644.27
FG-717	18	1	8	18	18	53	\$535.00	32	\$174.15	\$709.15
FG-797	20	9	1	20	20	58	\$635.13	39	\$212.25	\$847.37
FG-877	22	10	1	22	22	68	\$699.16	43	\$234.02	\$933.17
FG-957	24	11	1	24	24	70	\$763.18	47	\$255.78	\$1,018.97

Guard Part #	Clasp	Clip	Guard Part #	Clasp	Clip
9510220	C	H-3	31-1713400	NO FIT	
FC68-2	C	H	OTHER	C	H

↑
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 On every OTHER Tyne
 OPTIONAL**

PART #	ABM Replacement Parts	2018 Retail
FG-087	8 POINT SECTION	\$56.82
FG-077	7 POINT SECTION	\$51.67
ABM-D-6	6 POINT SECTION	\$46.47
ABM-D-3F	3-PT Bolt-on guard	\$51.67
ABM-D-3FL	Left finger w/ tyne wire	\$20.31
ABM-D-3FR	Right finger w/ tyne wire	\$20.31
ABM-3M7196	M10-1.5 X 50mm carr. bolt	\$1.04
JDF-010	C-CLASP	\$1.66
K11-001	C-2 CLASP	\$1.66
WND-002	H-CLIP	\$1.95
WND-004	H-3 CLIP	\$1.95
WND-103	H-4 CLIP	\$1.95
WND-105	H-5 CLIP	\$1.95
ABM-D-1	DRAPER CLIP	\$2.78
ABM-D-1J	JOHN DEERE DRAPER CLIP	\$2.78
11X-1308	Z-CLIP	\$2.78
11G-1301	TINE CLIP	\$0.73
11G-1401	GUARD POINT CLIP	\$0.91
11X-3202	TINE WIRE	\$1.57
11X-3202F	EXTRA LONG TINE WIRE	\$3.04
ABM-2005	GRAIN SAVER BOOT	\$5.44
FLX HC-3	HOG RING	\$0.17

All of the Set #'s listed above have been proven to work
 on the brands and header widths shown
 Because Guard Part Numbers and OE-Guard Suppliers change frequently,
 We recommend that you help your dealer specify a correct set of Milo-Guards for your machine
 Please have this information when you contact your dealer
 Guard part number or part numbers used on your machine
 Model Number and cutting width
 Main guard point spacing (usually either 3" or 4")
 Guard bolt diameter, usually either 3/8", 7/16" or 10mm diameter
 Brand Name--some headers are "private labeled" for major OE Brands
 We will assist you in the selection of a full set of milo-guards or replacement
 parts as needed so that you can get back in the field and start saving grain !!
WARRANTY: ABM will replace any part it manufactures that proves to be defective
 for a period of one year from the date of purchase. ABM is not responsible for
 damages cause by improper installation or misuse of its products nor is ABM responsible
 for any consequential damages to combines or headers.

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Schumacher EasyCut does not make headers. They make a world-class cutting system retrofittable to most modern combines. Therefore, ABM recommends that your farmer/customer goes back to the original fitup method for Milo Guards. COUNT the number of exposed guard points. Charts show options for header widths based on the number of exposed guard points. When cutting Sorghum (Milo), we recommend that Flex headers are "locked out" in the rigid position.

All OEM Headers equipped with Schumacher EasyCut SCH guard and sickle cutting systems

Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of H-5 Clips P/N WND-105	# of C-Clasps P/N JDF-010	Wt. Lbs.	Retail Price w/o GS boots	Grain Saver Boots Required	Retail Price GS-boots	Total Kit
										Price including GS-Boots
SCH-917-79	20	9	1	20	20	60	\$635.11	39	\$212.25	\$847.36
SCH-657-83	21	6	5	22	22	64	\$678.51	41	\$223.13	\$901.64
SCH-837-85	22	8	3	22	22	68	\$688.82	42	\$228.57	\$917.40
SCH-937-93	24	9	3	24	24	74	\$752.85	46	\$250.34	\$1,003.19
SCH-947-100	25	9	4	26	26	78	\$811.72	50	\$272.11	\$1,083.83
SCH-1147-116	30	11	4	30	30	88	\$939.77	58	\$315.65	\$1,255.42
SCH-5117-117	30	5	11	32	32	88	\$967.70	58	\$315.65	\$1,283.35
SCH-1507-120	30	15	0	30	30	88	\$960.40	60	\$326.53	\$1,286.93
SCH-1707-136	36	17	0	34	34	103	\$1,088.45	68	\$370.07	\$1,458.52
SCH-0207-140	36	0	20	40	40	103	\$1,177.39	70	\$380.95	\$1,558.35
SCH-1667-170	40	16	6	44	44	119	\$1,377.64	85	\$462.59	\$1,840.23
SCH-1767-178	42	17	6	46	46	127	\$1,441.67	89	\$484.36	\$1,926.03
SCH-1867-186	45	18	6	48	48	139	\$1,505.70	93	\$506.13	\$2,011.82

Part Number KEY: SCH-917 = 20' platform using 9ea 8-points and 1ea 7-point, -79 = 79 exposed guard points
 For retrofitting ABM Milo Guards to any OEM header equipped with Schumacher EasyCut, please COUNT the number of exposed guard points, use the charts to determine the correct SET # and quantities of 8-points and 7-points required to fill out the header
 For all Flex headers, work from the center out, avoiding placement of rigid milo guard bars over the flex joints in the header

↑
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 On every OTHER Tyne**

**ALWAYS
 INCLUDE
 GRAIN SAVER
 BOOTS
 For Optimum
 Performance**

Guard Part #	JDF-010	WND-105	Guard Part #	JDF-010	WND-105
	C-Clasp	H-5 Clip		C-Clasp	H-5 Clip
16538 BLACK	C	H-5	16539 RED	C	H-5
16540 GREY	C	H-5	Use C-Clasp for 3/8", 8mm or 10mm bolt		

<--ALL EasyCut Guard systems use the SAME ABM Milo Guard setup

For every C-Clasp installed, replace one 10mm Carriage bolt with a 3/8" or 10mm Hex bolt of the same length, install with NUT UP

HoneyBee Headers with EITHER 87112 or 87113 HoneyBee Guards, typically used on AirFlex headers

HoneyBee Grain Belt and 4000-series headers use complete Schumacher EasyCut SCH guards and sickles, use the SCH-charts above

Set #	Cut size (Width ft)	# of FG-087 8-points	# of FG-077 7-points	# of H-5 Clips P/N WND-105	# of C-2 Clasps P/N K11-001	Wt. Lbs.	Retail Price w/o GS boots	Grain Saver Boots Required	Retail Price GS-boots	Total Kit
										Price including GS-Boots
HB-230AF-122	30	10	6	32	32	88	\$993.48	61	\$331.97	\$1,325.46
HB-236AF-146	36	6	14	40	40	103	\$1,208.34	73	\$397.28	\$1,605.62
HB-240AF-162	40	15	6	42	42	119	\$1,313.62	81	\$440.82	\$1,754.44
HB-245AF-182	45	14	10	48	48	139	\$1,485.07	91	\$495.24	\$1,980.31
HB-250AF-202	50	20	6	52	52	148	\$1,633.75	101	\$549.66	\$2,183.42

Part Number KEY: HB-230AF = HoneyBee 30 foot Air Flex, -122 = 122 exposed guard points
 For all Flex headers, work from the center out, avoiding placement of rigid milo guard bars over the flex joints in the header

↑
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 On every OTHER Tyne**

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 GRAIN SAVER
 BOOTS
 For Optimum
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Guard Part #	K11-001	WND-105	Guard Part #	K11-001	WND-105
	C-2 Clasp	H-5 Clip		C-2 Clasp	H-5 Clip
87112	C-2	H-5	87113	C-2	H-5
Use C-2 Clasp for 7/16" or 12mm bolt					

For every C-2 Clasp installed, replace one 7/16" Carriage bolt with a 7/16" Hex bolt of the same length, install with NUT UP

Schumacher EasyCut
Header system

**ALWAYS SELL
 SYSTEMS
 WITH ABM-2005
 Grain Saver
 Boots on every
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HoneyBee AirFlex
Header system

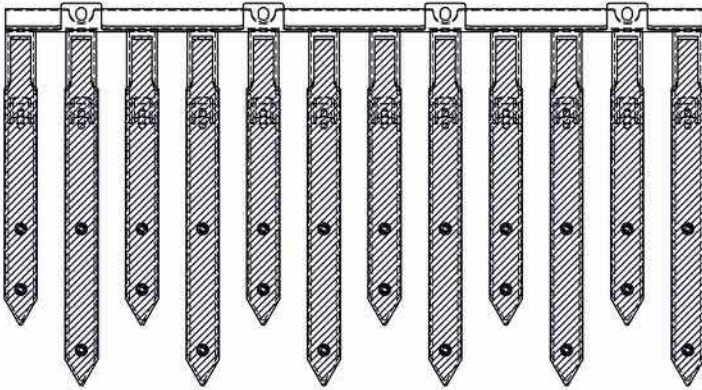
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 SYSTEMS
 WITH ABM-2005
 Grain Saver
 Boots on every
 OTHER point !!**

ShieldAg Cropsaver Staggered Designs for Milo

The new staggered design for guards on 3" centers will still be in 3' lengths. For example, a 30' header will take 10 units. The new 3" cutting system will have 4 tabs instead of the normal 3, and 12 fingers instead of 6. This unit should fit any combine on the market with guards on 3" centers. There will be only two models, one for the 3" guard and one for the 4" guard. This should cover virtually all current guards. All will use the "Rock Guard Support Bar". These will be laser cut into the support bar which will make it always fit.

Guards on 3" Centers:

Part #	Description	Retail Price
SACS-SPL	Short Plastic Part	\$17.33
SACS-LPL	Long Plastic Part	\$17.95
SACS-3S	Complete Unit	\$356.54

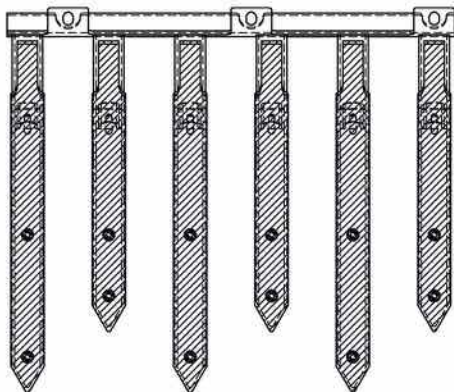


SACS-3S FOR ALL HEADERS WITH LONG GUARD POINTS ON 3" CENTERS

Cutting systems using the staggered finger design on 4" cutting systems (Draper and Flex) will use the same section, this section will be 2' in length. For example, 15 units are required to cover a 30' head, 18 units for a 35 or 36' head. These sections will have 3 tabs on the back, and 6 fingers. These units will also be using the "Rock Guard Support Bar".

Guards on 4" Centers:

Part #	Description	Retail Price
SACS-SPL	Short Plastic Part	\$17.33
SACS-LPL	Long Plastic Part	\$17.95
SACS-4S	Complete Unit	\$254.17



SACS-4S FOR ALL DEERE HEADERS WITH LONG GUARD POINTS ON 4" CENTERS
REQUIRES
3 LONGER BOLTS PER SECTION
10mm X 50mm LONG



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Lacing & Lacing tools are available!

Please specify the following:

Make: _____
Model: _____
Manufacture Year: _____

TYPE OF CONSTRUCTION:

2 PLY _____
or
3 PLY _____

CHOOSE TEXTURE:

Smooth Top _____
Mini-Rough Top _____
Rough Top _____
Chevron Top _____
Diamond Top _____

CHOOSE LACING:

Flexco Rivet Lacing _____
Clipper Lacing _____
Flexco 125 Staple Lacing _____
2-A Minet Lacing _____

CHEVRON TOP



DIAMOND TOP



ROUGH TOP



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- Baler Belts
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