

PLATFORMS

Starting with the platform, the parts that experience high wear are the cutting components.

- Knives
- Guards
- Wear Plates
- Hold-Down Clips

The knife is a series of shears. To cut effectively, the knife must run smoothly in the cutterbar, and every knife section must rest on the guard, in position to make a shear cut. The knife guard, wear plates, and hold-down clips must be in good condition and set correctly.

Replacing worn cutting parts:

- Reduces shatter loss
- Prevents crop stripping
- Provides clean, efficient feeding
- Provides possibly faster ground speeds
- Reduces power requirements
- Reduces cutterbar plugging
- Increases capacity
- Improves profitability

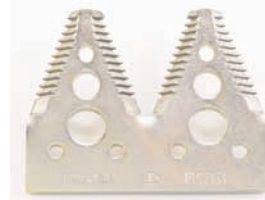
When it's time to replace a knife, a section, or a set of guards, consider replacing all components for maximum effectiveness.

**Sickle Sections**

John Deere sickle sections are made from high-carbon steel for durability and long wear life. Tests have proven that many competitive sections fail to meet John Deere specifications. John Deere sickle sections offer tough construction, uniform thickness, and long wear life.

600R, 600F, AND 900D DRAPER SERIES CUTTING PLATFORMS**Dura-Cut Knife Section (4-in Cut)****Fine-Tooth Sections**

- 14 serrations per inch (5.6 per cm)
- Works best in finer stems, grassy undergrowth and stone conditions
- Minimal plugging in serration area

Coarse-Tooth Sections

- 7 serrations per inch (2.8 per cm)
- Extra-aggressive for coarse, dry crops
- Grabs stalks and brings them to the ledger surface
- Self-sharpens to maintain a well-defined pattern

The double-cut knife system, used on the 600R, 600F, and 900D Draper cutting platforms, provides customers with faster, cleaner, and smoother cutting action for small grain harvesting. The system uses the unique Dura-Twin knife section, with a full four inches of knife travel.

- Full four inches of knife travel for faster, cleaner, and smoother cutting action
- Manufactured to the same quality specifications as the Dura-Lite and Dura-Cut knife sections for long wear life and high performance
- Made of high-carbon and heat-treated hardened chrome steel for long life in most abrasive crop and field conditions
- Deep serrations reduce stripping and tearing of crop – reduces shatter loss at the cutterbar
- Course-tooth knife sections featured on all flex platforms and fine-tooth knife sections featured on all rigid platforms
- CBZ-controlled breakage zone – the holes in the sickle section provide a controlled breakage zone so the sickle will break without damaging the guards
- Each section securely fastens with special bolt and self-locking nut
- Allows for quick, easy replacement of knife sections

Dura-Twin Short-Long Knife Section

**Short-Long, Fine Tooth****Short-Long, Coarse Tooth**

For harvesting crop in no-till planting conditions.
For use on 600F Series Flex Platforms only.

- The recessed point provides a more open profile to the cutterbar – allows cornstalks and/or other large-stemmed plants to enter knife guards more easily for cutting
- Helps stop plugging of the cutterbar caused by corn and wheat residue

Double-Cut Knife End Section

**End Section Knife**

End sections reduce troublesome cutterbar clogging in thick and badly tangled crops.

Double-Cut Knife Guards

Long Guards – 600R and 900D Draper Series Platform only

**Long-Short-Long****Short-Long-Short**

Blunt Guards – 600F Series Platform only

**Long-Short-Long****Short-Long-Short**

The double-cut knife system features a four-inch knife stroke for smooth cutting action. The double-cut system uses a unique set of knife guards that work with the Dura-Twin knife sections. The guards are available in "long-short-long" or "short-long-short" versions. The two versions are alternated across the cutterbar.

- Manufactured of forged steel to create a smooth surface for snag-free flow to the knife
- Special heat-treating process provides extra hardness so guard withstands tough impacts
- Coining process ensures the cutting ledger surface sits flat with the knife section for precision cutting action
- Long guards for rigid platforms – “comb” the crop for even cutting, improved platform productivity
- Blunt guards for Hydra-Flex™ platforms – maximize cutting surfaces at lower cut heights, with the ability to ride over crop material

Note: The wear plates are an integral part of the 4-in. system.

600 RIGID, 600 FLEX, AND 900D DRAPER SERIES PLATFORM

Hold-Down Clips



**New Style – Adjustable
Hold-Down Clip**



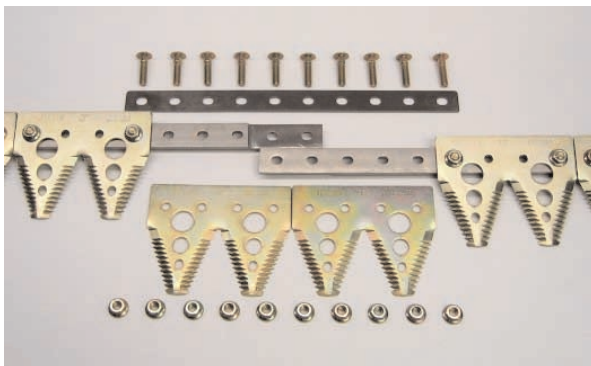
**Old Style – Adjustable
Hold-Down Clip**



**Raised Hold-Down Clip
Used on left side where the knife head is**

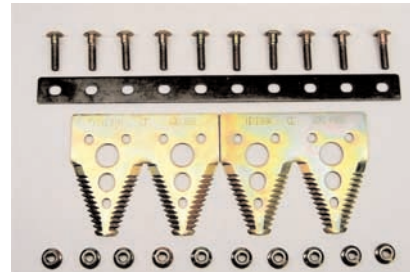
Hold-down clips must be durable to prevent the clip from breaking under stress. The hold-down clip keeps the knife section in the shearing position. The ideal cutting position is when the bottom surface of the knife section is kept in contact with the lower self-sharpening edge of the rock guard groove, creating a scissors-like action. The hold-down clip flexes under field stress conditions, but is strong enough to hold the knife section in place.

Dura-Twin Sectionalized Knife



The Litening Bolt sectionalized knife can be transported in the back of a pickup truck. The sections can be quickly and easily bolted together in 15- to 35-ft. lengths. The sectionalized knives are available in coarse-tooth and fine-tooth knife sections (refer to the following page for the charts to determine the quantity of each knife length needed).

Joint Kit



A lap joint provides a strong hold and lightning-fast assembly. There is no need for drilling.



AH202628

Repair broken John Deere knives with these knifeback splices. Just bolt the splice over the knifeback, and the spliced sickle will perform just like a one-piece knife.

600 RIGID, 600 FLEX, AND 900D DRAPER SERIES PLATFORM

SICKLE SECTION LENGTH AND NUMBER	TEETH PER INCH	15 FT.	18 FT.	20 FT.	22 FT.	25 FT.	30 FT.	35 FT.	36 FT.
600R Series Platforms:									
Dura-Twin™ 9-ft. left-hand section with head AH213011	----	----	1	1	1	1	1	----	----
Dura-Twin middle section AH219604	----	----	1	1	1	1	2	----	----
Dura-Twin joint/splice kits (fine) AH205715	----	----	2	2	2	2	3	----	----
Dura-Twin right-hand end section (fine) AH155557	----	----					1	----	----
AH155520, right-hand end section	----	----				1		----	----
AH166900, right-hand end section	----	----			1			----	----
AH155555, right-hand end section	----	----		1				----	----
AH166963, right-hand end section	----	----	1					----	----
600F Series Platforms:									
Dura-Twin™ left-hand section AH213012	----	1	1	1	1	1	1	1	----
Dura-Twin middle section AH218389	----		1	1	1	1	2	2	----
Dura-Twin joint/splice kits (coarse) AH205918	----	1	2	2	2	2	3	3	----
Dura-Twin right-hand end section (coarse) AH204247	----							1	----
AH159567, right-hand end section	----						1		----
AH164035, right-hand end section	----					1			----
AH166904, right-hand end section	----				1				----
AH159216, right-hand end section	----			1					----
AH168298, right-hand end section	----		1						----
AH168216, right-hand end section	----	1							----
600F Series Platforms short-long coarse sections:									
Dura-Twin™ left-hand section AH218357	----	1	1	1	1	1	1	1	----
Dura-Twin middle section AH218388	----		1	1	1	1	2	2	----
Dura-Twin joint/splice kits (coarse) AH218363	----	1	2	2	2	2	3	3	----
Dura-Twin right-hand end section (coarse) AH204246	----							1	----
AH218361, right-hand end section	----						1		----
AH218360, right-hand end section	----					1			----
AH218382, right-hand end section	----				1				----
AH218380, right-hand end section	----			1					----
AH168298, right-hand end section	----		1						----
900D Draper Platforms:									
Middle sectionalized knife AH219604		----	----	----	----	1	2	----	2
Head end sectionalized knife AH215256		----	----	----	----	1	1	----	1
End section AH155520	14	----	----	----	----	1		----	
End section AH155557	14	----	----	----	----		1	----	
End section AH166963	14	----	----	----	----			----	1
Joint/splice AH205715		----	----	----	----	2	3	----	4

600 RIGID, 600 FLEX, AND 900D DRAPER SERIES PLATFORM

Rebuilding a Cutterbar

Complaint or Symptom: How many guards, sections, and hold downs does it take to rebuild a cutterbar?

Solution:

NOTE: The following quantities are the same for both rigid, flex, and draper platforms. Although there are several different types of guards and sections, the quantities are the same.

Sections		Guards	Hold downs
Length	Number of units	Number of units	Number of units
15 ft.	45	15 short-long-short and 15 long-short-long	13
18 ft.	54	18 short-long-short and 18 long-short-long	16
20 ft.	60	20 short-long-short and 20 long-short-long	18
22 ft.	65	22 short-long-short and 22 long-short-long	20
25 ft.	75	25 short-long-short and 25 long-short-long	23
30 ft.	90	30 short-long-short and 30 long-short-long	33
35 ft.	105	34 short-long-short and 34 long-short-long	42
36 ft.	108	36 short-long-short and 36 long-short-long	44

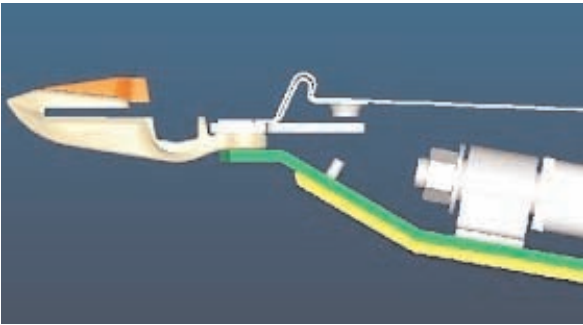
HIGH ARCH HOLD DOWNS FOR LEFT HAND END (600 Series and Draper Platforms):

- 15, 18, 20, 22, and 25 ft. platforms use one
- 30, 35, and 36 ft. platforms use two

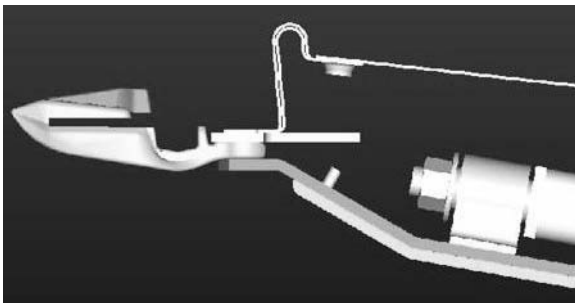
Feed Floor with Optional Tall Profile Stone Dam – 600F Series Platform



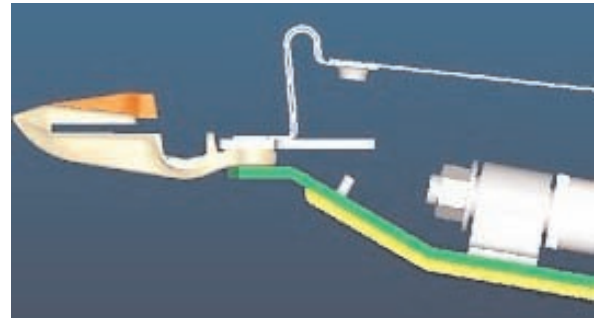
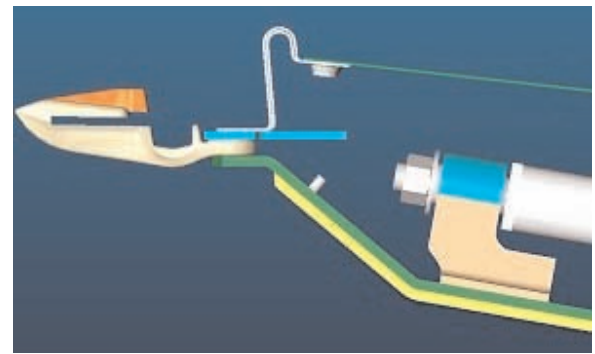
- The stainless steel feed plates have a flat profile that provides for smoother feeding into the platform auger
- Unique feed plate floor design prevents the “hump” that is typical of conventional floor designs – the feed plates pivot from the rear
- During normal operation, the profile of the feed floor is flat, which improves feeding geometry and also maintains a consistent clearance between the reel and cutterbar for improved crop flow from the cutterbar to the auger

600 RIGID, 600 FLEX, AND 900D DRAPER SERIES PLATFORM**Standard Stone Dam****Standard Stone Dam**

- Short profile allows smoother flow of residue over cutterbar
- Reduces temporary blockages of knife and corresponding cutting issues
- Available factory installed
- In crops that are subject to shatter loss, the stone dam holds the crop in the platform reducing header field loss

Tall Stone Dam**Tall Stone Dam**

- The tall stone dam minimizes rock ingestion in rocky conditions into the platform
- In crops that are subject to shatter loss, the tall stone dam holds the crop in the platform reducing header field loss

Raised Cut Height Skid Shoe Option**Tall Stone Dam on Standard
38-mm (1.5-in.) Skid Shoe****Raised Skid Shoe - Optional
63-mm (2.5-in.) Skid Shoe**

A “raised cut height” skid shoe is available as a dealer-installed option on the 600 Series Hydra-Flex. The raised cut height design of this skid shoe increases the cutterbar cutting height from 38 mm (1.5-in.) to 63 mm (2.5-in.).

The tall stone dam minimizes rock ingestion in rocky conditions into the platform. Also, this option helps to provide added protection in field conditions where other field debris are present or tall, damp, high residue from double-crop operations exists within the standard low-height cutting range of the 600 Series flexible cutterbar. In crops that are subject to shatter loss, the stone dam holds the crop in the platform, reducing header field loss.

Poly Skid Shoes and Extensions



Poly skid shoes and extensions offer improved performance when harvesting low to the ground. They are recommended for harvesting crops that must be cut closer to the ground, like lentils or peas, or when harvesting shorter-than-normal or downed crops. The skid shoes and extensions:

- Improve the skid angle of the frame under the cutterbar
- Provide a smooth travel surface under the cutterbar
- Help protect the underside of the platform
- Permit faster travel in light crops
- Reduce the likelihood of mud building up on the cutterbar

Note: Draper poly skid extensions are not compatible with crop lifters or the draper poly skid plate bundle.

Auger Fingers



Steel Auger Finger with Retainer



Composite Auger Finger

As the material moves to the center of the platform, auger fingers, deliver material to the feeder house. The fingers and bearings should be checked periodically and replaced if there is excessive play.

The John Deere steel auger fingers are made of boron steel. The surface is heat-treated for long wear. A narrow, breakaway groove in the finger protects it and allows the finger to break, rather than bend, at a precise point if it hits a rock or other obstruction.

This prevents severe damage to the auger.

The John Deere composite retractable auger fingers are created of a composite material known for its strength and resiliency in most crop conditions. They reduce machine damage from broken fingers.

Note: Composite fingers will not work with metal finger guides. Also, new hardware is needed when converting to composite fingers.

600 Series Platform Reel Finger Quantities per Models

Part number	Reel fingers
618 Series Platform	
AH166489	174 standard
AH166490	15 left hand
AH166491	12 right hand
AH166492	21 outside
620 Series Platform	
AH166489	204 standard
AH166490	15 left hand
AH166491	12 right hand
AH166492	18 outside
622 Series Platform	
AH166489	216 standard
AH166490	18 left hand
AH166491	15 right hand
AH166492	21 outside
625 Series Platform	
AH166489	252 standard
AH166490	15 left hand
AH166491	15 right hand
AH166492	24 outside
630 Series Platform	
AH166489	312 standard
AH166490	15 left hand
AH166491	15 right hand
AH166492	24 outside
635 Series Platform	
AH166489	360 standard
AH166490	21 left hand
AH166491	21 right hand
AH166492	24 outside

900 RIGID AND 900 FLEX CUTTING PLATFORMS

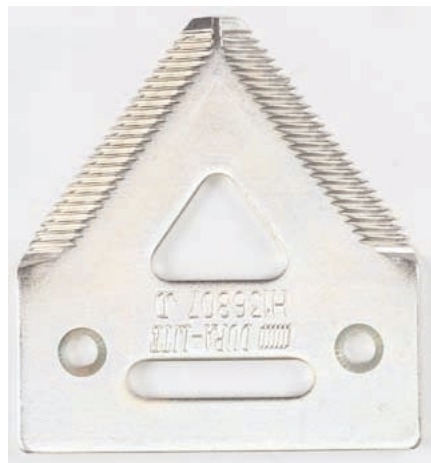
Course and Fine Tooth Sections

Coarse-Tooth Sections



- 7 serrations per inch (2.8 per cm)
- Extra-aggressive for coarse, dry crops
- Grabs stalks and brings them to the ledger surface
- Self-sharpens to maintain a well defined pattern

Fine-Tooth Sections



- 14 serrations per inch (5.6 per cm)
- Works best in finer stems, grassy undergrowth and stone conditions
- Minimal plugging in serration area

Litening Bolt™ Sectionalized Knife

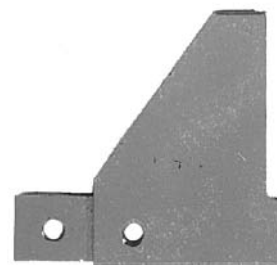


The Litening Bolt sectionalized knife can be transported in the back of a pickup truck. The sections can be quickly and easily bolted together in 13- to 30-ft. lengths (10 possible knife lengths). A lap joint provides a strong hold and lightning-fast assembly. There's no need for drilling. The sectionalized knives are also available with coarse-tooth and fine-tooth knife sections (refer to the chart on the following page to determine the quantity of each knife length needed).

End Sections



Standard Knife



Sectional Knife

End sections reduce troublesome cutterbar clogging in thick and badly tangled crops.

900 RIGID AND 900 FLEX SERIES PLATFORM

SICKLE SECTION LENGTH AND NUMBER	TEETH PER INCH	13 FT.	15 FT.	18 FT.	20 FT.	22 FT.	24 FT.	25 FT.	30 FT.
900, 900R, 900F Series Platforms:									
9-ft. section with head		1	1	1	1	1	1	1	1
Dura-Lite™ AH213828	7								
Dura-Cut™ AH213838	7								
Dura-Lite AH213833	14								
9-ft. section without head			1	1	1	1	2	2	2
Dura-Lite AH213829	7								
Dura-Cut AH159725	7								
Dura-Lite AH213834	14								
2-ft. 9-in. section				1	1				
Dura-Lite AH213830	7								
Dura-Cut AH159726	7								
Dura-Lite AH213835	14								
4-ft. 9 1/2-in. section		1				1			1
Dura-Lite AH213831	7								
Dura-Cut AH213841	7								
Dura-Lite AH213836	14								
Kit — End section AH213837									
Box of hardware		1	1	1	1	1	1	1	1
Dura-Lite AH213832	7								
Dura-Cut AH213842	7								

Knife Guards

Knife guards are designed to provide long life and top productivity. The guards are forged from low-carbon steel to ensure durability.

The forging process gives the guard a smooth surface for snag-free crop flow to the knife. A special heat treating process provides extra hardness so the guard retains its shock-resistant characteristics.

The upper lip of the guard is wider than the cutting surface. This lip keeps the cutting edge sharper longer by protecting it from damage by foreign material. The lower portion of the guard is designed in a “V” shape and flares out into the wide cutting surface of the guard, positioning the crop stem at a slight angle. The result is a clean, scissors-like cut.



Carbonized Knife Guard (Black)

Carbonized and heat-treated process aligns carbon with a wear-resistant outer surface, increasing wear life and helping keep the ledger plate sharp. Provides maximum cutting performance.



DuraGuard™ Knife Guard (Silver)

Double heat-treating resists bending and helps resist breaking in tough conditions. Best choice for rocky conditions.



**Economical Guard
(Green)**

Economical knife guard, manufactured of forged steel for snap-free flow to the knife.



**Economical Knife Guard for rocky conditions
(Green)**

Crossbar design adds strength for rocky conditions. Works well with rigid platforms. Not recommended for weedy conditions.

Hold-Down Clip



clip from breaking under stress. The hold-down clip keeps the knife section in the shearing position. The ideal cutting position is when the bottom surface of the knife section is kept in contact with the lower self-sharpening edge of the rock guard groove, creating a scissors-like action. The hold-down clip flexes under field stress conditions, but is strong enough to hold the knife section in place.

Wear Plates



Wear plates keep the knife aligned with the ledger surface to ensure a clean shearing action. Worn plates cause the knife to chew and tear the crop.

John Deere wear plates are heat-treated for long wear-life. Sharp, forged ends assure even sickle bar contact, and rectangular attaching holes provide positive alignment. Uniform and consistent manufacturing processes assure a tight, perfect fit.

Auger Fingers



Steel Auger Finger with Retainer



Composite Auger Finger

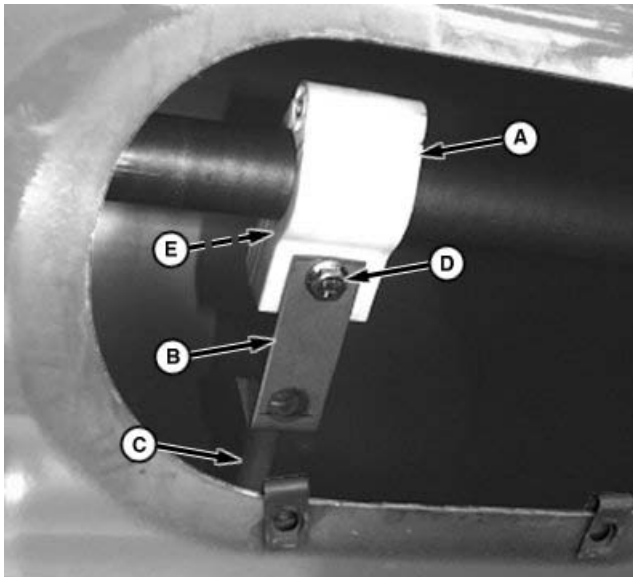
As the material moves to the center of the platform, auger fingers, deliver material to the feeder house. The fingers and bearings should be checked periodically and replaced if there is excessive play. The John Deere steel auger fingers are made of boron steel. The surface is heat-treated for long wear. A narrow, breakaway groove in the finger protects it and allows the finger to break, rather than bend, at a precise point if it hits a rock or other obstruction. This prevents severe damage to the auger.

Provide your customers an option over metal auger fingers with John Deere composite retractable auger fingers. These fingers are created of a composite material known for its strength and resiliency in most crop conditions. They reduce machine damage from broken fingers.

Note: Composite fingers will not work with metal finger guides. Also, new hardware is needed when converting to composite fingers.

Hold-Down Clip

The finger retainer holds the auger finger in place if it should break and prevents it from damaging the auger.



- A** - Bearing
- B** - Finger Retainer
- C** - Finger
- D** - M8 x 50 Cap Screw
- E** - M8 Lock Nut