

Straw Chopper

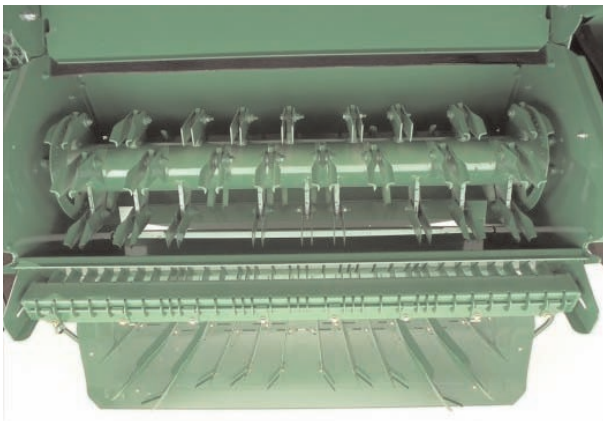


The high-speed chopper is available for fine shredding of separator and cleaning shoe residue. On the STS it sizes and spreads residue from both the separator and cleaning shoe. On Walker and STS machines it sizes and spreads material from the separator only. The deflector fins can be positioned to control distribution width of crop residue. This helps reduce heavy surface residue buildup that typically can hinder tillage operations and uniform crop emergence.

A heavy-duty two-speed drive provides convenience and durability.

Two-speed drive sheaves allow for speed changeover.

- Lower speed reduces power requirements to drive the chopper. It also helps extend wear life of rotor blades in heavy, abrasive conditions. Usually in slow position for corn
- Higher speed provides widest and most even distribution of residue when harvesting small grains with large platforms



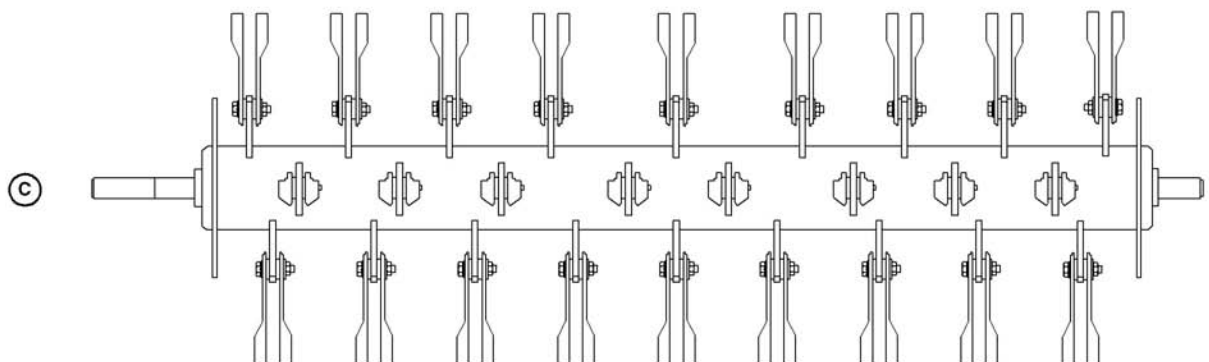
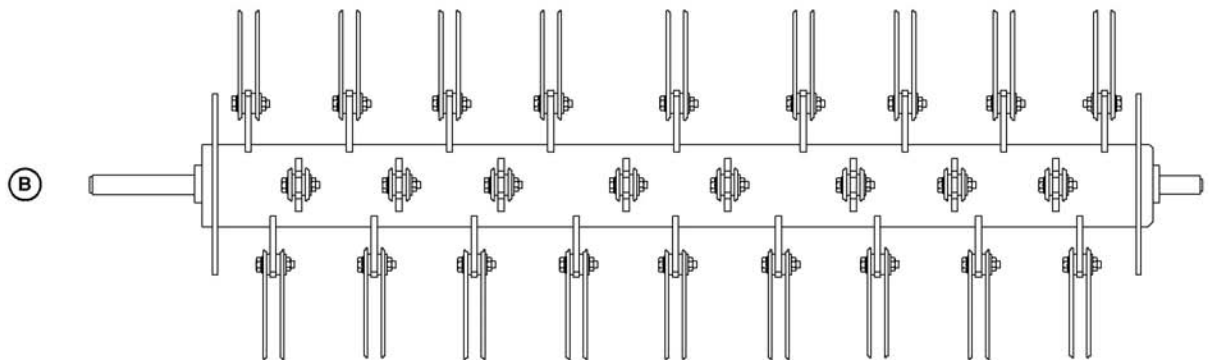
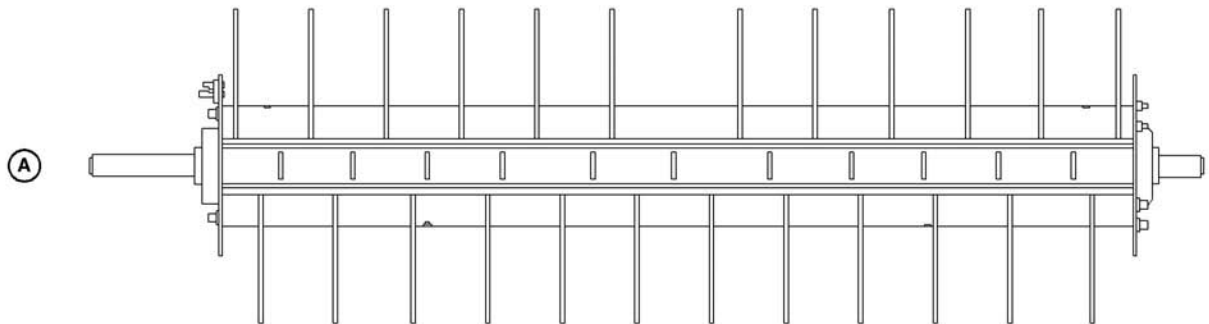
The fine-cut/wide-spread straw chopper for the 9660 STS, 9760 STS, and the 9860 STS comes equipped with a total of 68 knives, 48 paddle design and 20 straight knives. The 9560 STS has a 68-paddle design. This delivers the desired residue cut length and the ability to spread the material across the width of a 30-ft. and 35-ft. platform on 9660, 9760, and 9860 STS; 20-ft. and 25-ft. on the 9560 STS.

Three Configurations of Straw Chopper blades

A – Regular Cut

B – Fine Cut (Straight Blade)

C – Fine Cut, Wide Spread (Paddle Blades)



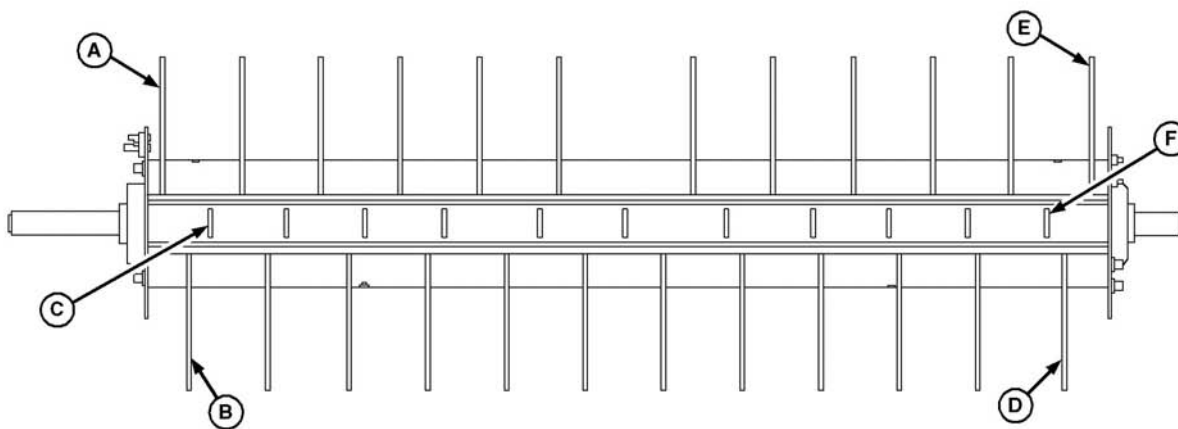
There are three rotor configurations available for choppers:

- (A) Regular
- (B) Fine Cut (Straight blades)
- (C) Fine Cut, Wide Spread (paddle blades)

The optional fine cut choppers have twice as many blades as the standard chopper.

The fine cut chopper has straight blades with double edged sharpened blades, good where yields and tough straw crops are harvested with narrow 7.6 m (25 ft) or less headers.

The wide spread, fine cut chopper has paddle type blades. The wide spread chopper provides a spread width of 9.1 m to 9.7 m (up to 36-in.) depending upon conditions, and is suited for those areas where wider header equipment or windrows are utilized.



A-F-Blades

On regular and fine cut (straight blades) Chopper balance must be maintained. When replacing one broken blade, six blades must be replaced in the proper locations to maintain chopper balance.

If blade (A) is broken, adjacent blades (B) and (C) must be replaced, as well as corresponding blades (D), (E), and (F) on the opposite end of the rotor.

Replacement blades are sold in sets of six or enough to replace all blades to keep rotor in balance.

For fine cut, wide spread (paddle blades) Chopper balance must be maintained. When replacing one broken blade, eight blades must be replaced in the proper locations to maintain chopper balance.

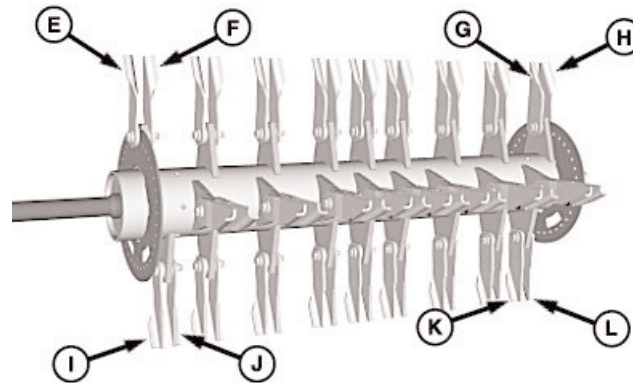
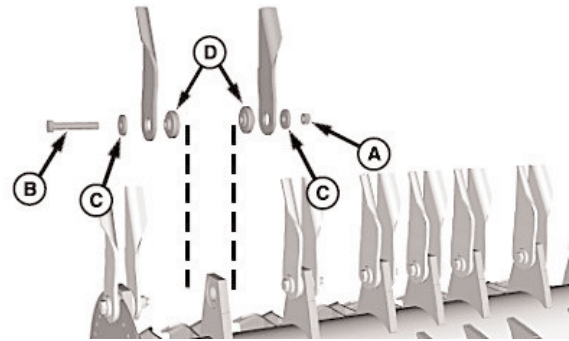
If paddle blade (E) is broken, replace paddle blades (E-L).

Replace blade and install cap screw (B), washer (C), bushing (D) and lock nut (A). Tighten nut to specification.

Replacement blades are sold in sets of eight.

- A – Lock nut
- B – Cap Screw
- C – Washers
- D – Bushings
- E-L – Paddle blades

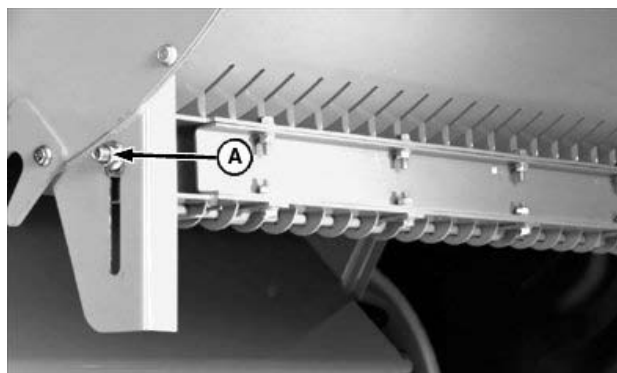
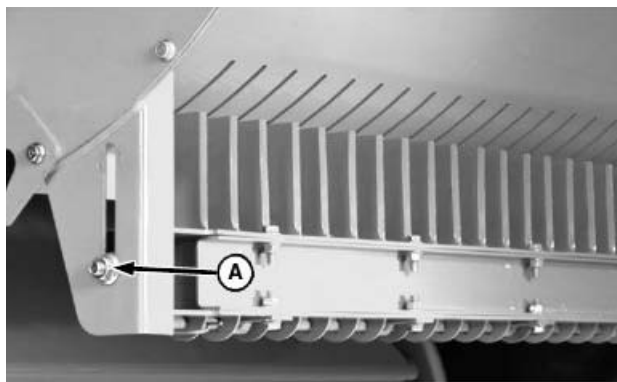
Stationary Knives



E-L-Blades

Stationary Knives

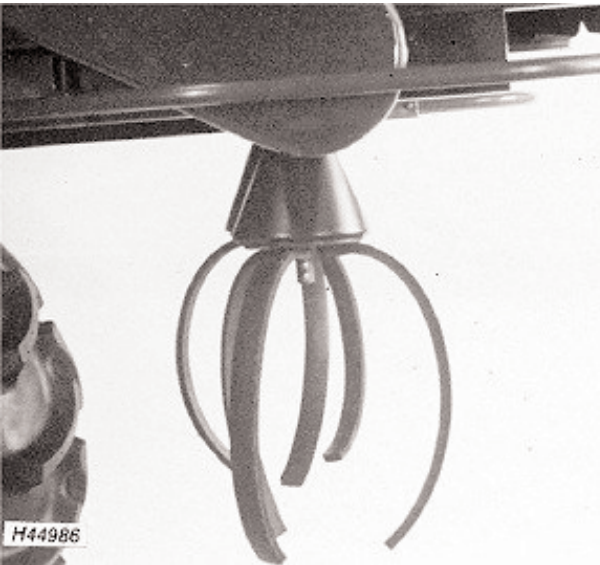
- Are used to help size the length of straw material
- Knives can be adjusted to any position. Position of knives determines the cut length of straw
- Knives must be in the “out” (not cutting) position for corn
- For long straw, loosen bolt (A) (both sides) and slide knives out. Tighten bolt
- For short straw, loosen bolt (A) (both sides) and slide knives in. Tighten bolt
- In heavy straw conditions, the chopper can be run on low speed with the knives out to save power and increase blade life. However, in certain conditions, chaff particles in the grain tank sample may increase slightly



Straw Spreader



STS twin-rotor straw spreader



The straw spreader option does not chop or size material. It simply spreads the material. The spreader is recommended for use when tillage practices do not dictate fine shredding of crop residue.

The STS Twin-rotor straw spreader system uses two large disk impellers to assure uniform, wide distribution of material from separator and cleaning shoe. Spreader disks are hydraulically driven by two hydraulic motors. The disk speed can be varied from 150-500 rpm and they can be controlled from the operator's station. It can spread residue depending upon conditions up to 30-ft. An in-cab warning buzzer sounds if speed drops below 128 rpm.

For Walker and CTS machines the spreader consists of two rotors with rubber paddles that distribute residue from the separator only.

Summary of Combine production from 1969 - 2007

Combine Series	Years produced	Serial number(s)	Models
New Generation	1969 – 1978	(2001 – 353900)	4400, 6600, 7700, 3300, 6601, 6602, and 7701
20 Series	1989 – 1989	(353901 – 631100)	4420, 6620, 7720, 8820, 6622, 7722, and 7721
Maximizers	1989 – 1997	(630101 – 675100)	9400, 9500, 9600, CTS, and 9501
10 Series	1998 – 1999	(675101 – 685100)	9410, 9510, 9610, and CTSII
50 Series	2000 – 2003	(685101 – 705100)	9450, 9550, 9650, 9650CTS, 9650STS, and 9750STS
60 Series	2004 –	(705101 –)	9460, 9560, 9660, 9560STS, 9660STS, 9760STS, and 9860STS