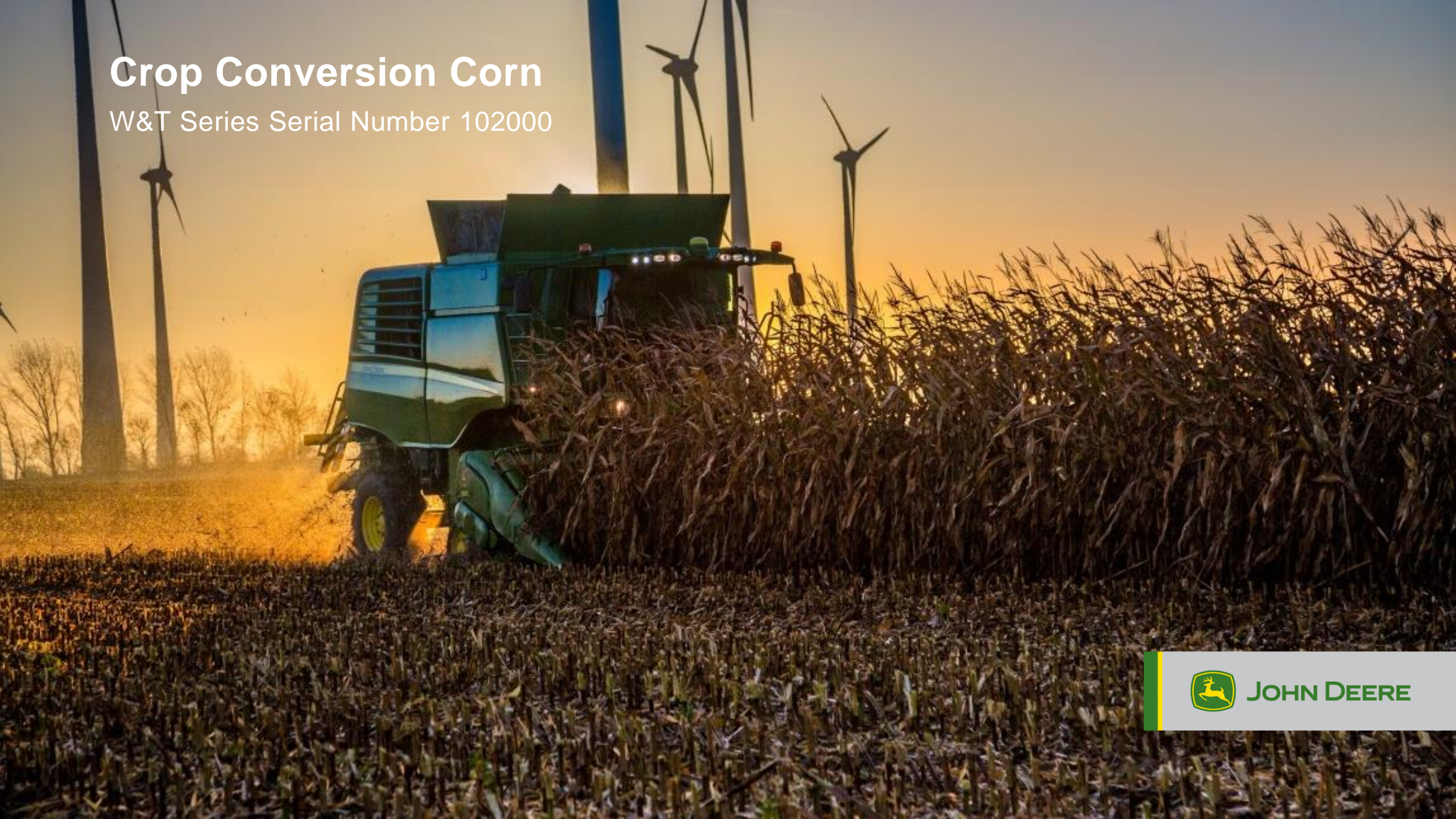


# Crop Conversion Corn

W&T Series Serial Number 102000

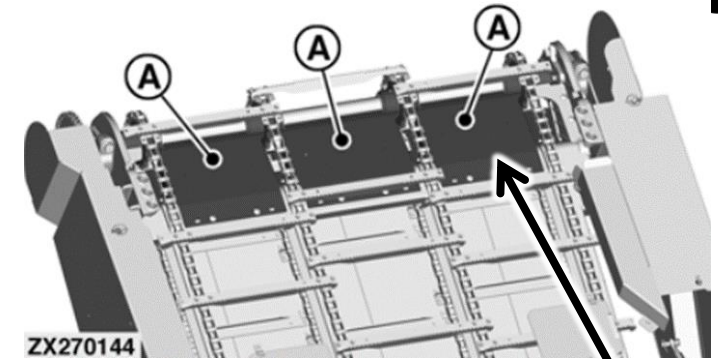


JOHN DEERE

# Feeder House



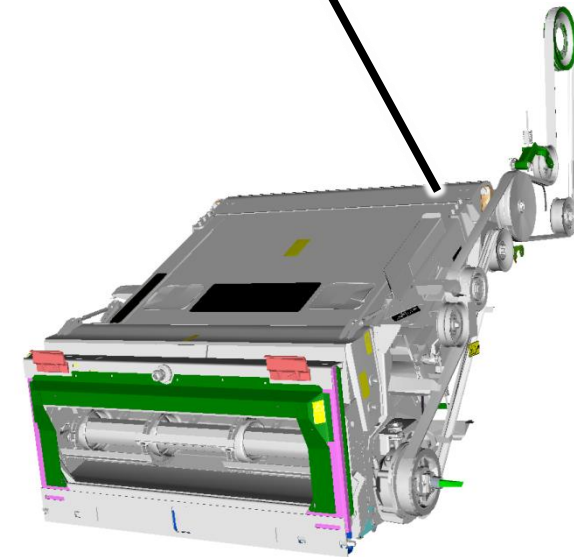
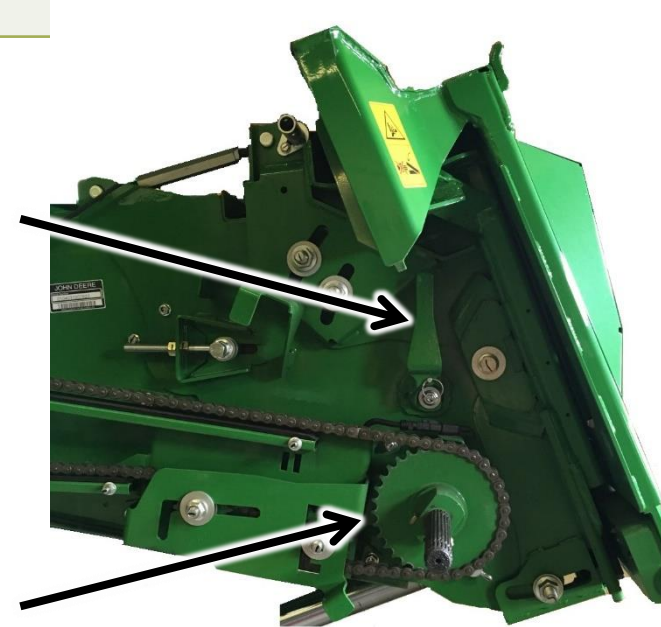
Drum position	Up (lever upwards)
Sprocket	15 teeth (small sprocket)
Top shaft stripper (A)	Yes
Perforated doors	No
Oil cooler (BH84479)	Recommended for 8 row chopping corn head and larger



Drum Position: Up  
(lever upwards)

Oil cooler:

Sprocket: Dual speed  
15 teeth



# Corn Head



## Feeder House Angle:

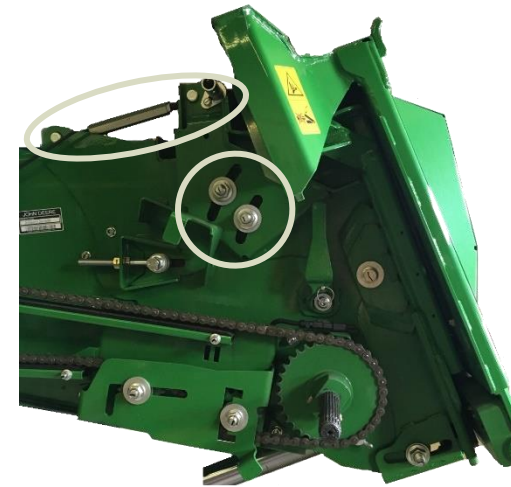
A John Deere corn head works best when the Deck plates have an angle of about  $21^\circ$  backwards relative to the ground in working position. Adjust the Feeder House face plate accordingly.

For other brands please contact the manufacturer to get optimized settings.

Deck plate spacing needs to be set according to the thickness of the corn stalk.

If deck spacing is too wide the corn ear can be damaged leading to grain loss. If it is too tight, more plant material will get into the combine.

Check the conveyor auger height in case of a large amount of broken grains. If the conveyor auger height is too low, it will damage the cobs.



# Feederhouse Lift Accumulator



## Accumulator Precharge Pressure

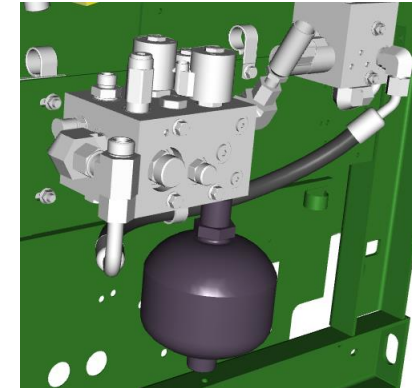
- should be matched to the specific header and feeder house lift cylinders
- factory precharge pressure is 7000 kPa (70 bar) (1015 psi).

## Use With Different Headers

accumulator precharge pressure should be set for the header with the lowest recommended precharge. When changing headers during the harvest season, there is usually no need to change accumulator precharge pressure, unless there is a big weight difference and you use the accumulator as suspension

You can activate accumulator based suspension by modifying the addresses below:

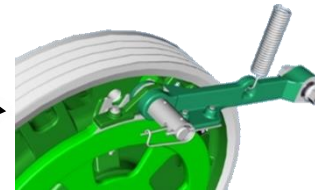
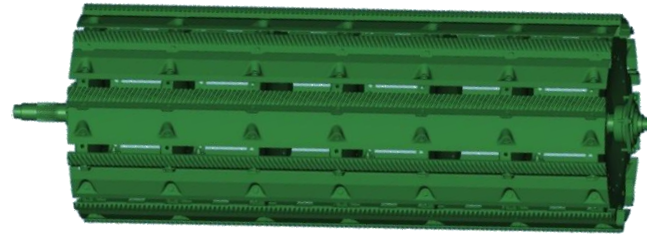
LC1 130	- - - 1 - - - -	enable accu in float mode
LC1 130	- - - - 1 - - -	enable accu in road mode
LC1 130	- - - - - 1 - -	enable accu in manual mode
LC1 130	- - - - - - 1 -	enable accu in height sensing mode
LC1 130	- - - - - - - 1	enable accu when engine running



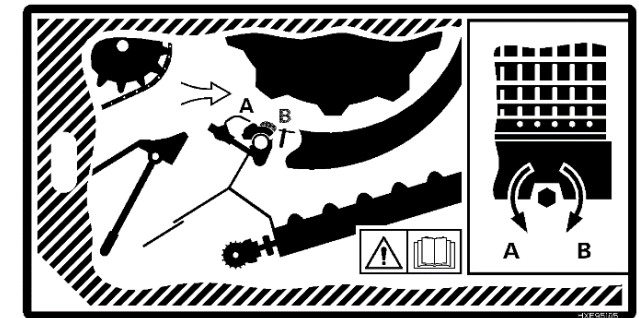
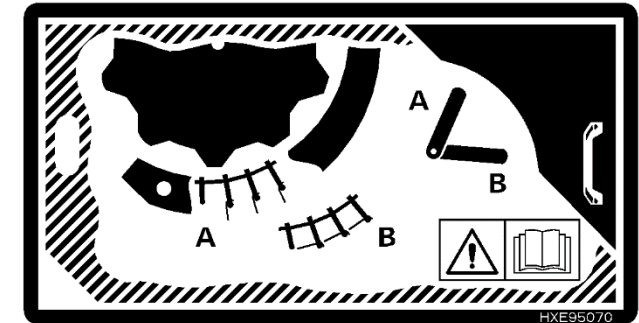
# Threshing – W&T-Series



Stone trap cover plate	Yes
Booster bar	No – disengage
Concave	Universal
Cylinder filling plates	Yes (if broken cobs with kernels leave the chaffer)
De-awning-plates	No – disengage
Threshing speed range	Low* *machine needs to be equipped with 2 speed cyl. Drive
Threshing speed	250 – 480 rpm
Concave clearance	25 – 38 (cob diameter without the grains)

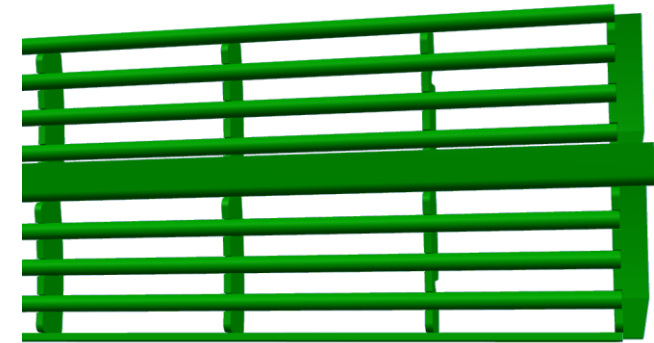
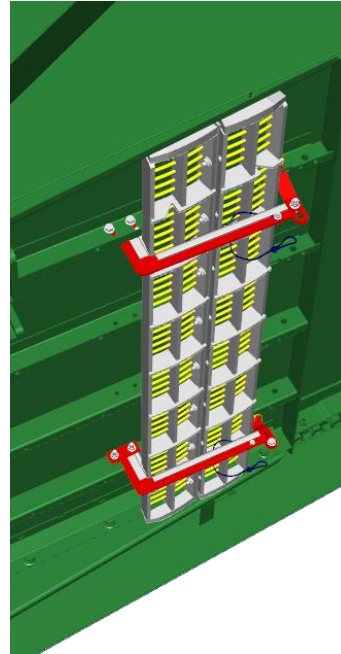
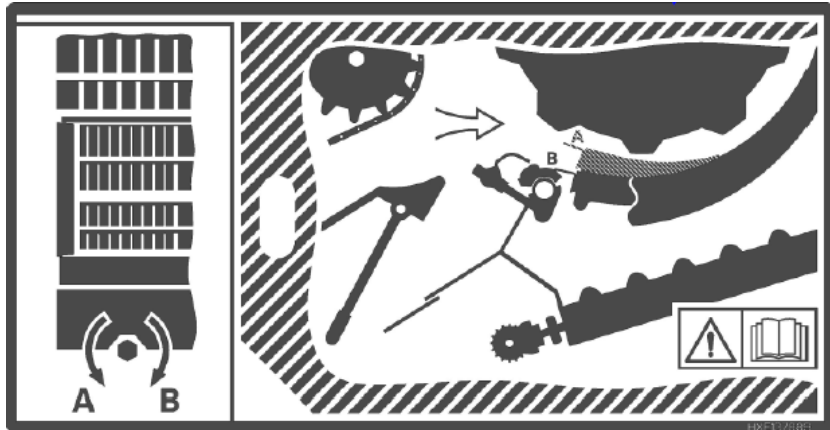


De-awning plates



Booster bar

# Sectional Concaves



Use Roundbar Sectional concaves

1. Open stone trap
2. Open concave completely
3. Disengage booster bar
4. Open sectional concave locking mechanism
5. Replace concave sections
6. Close the locking mechanism

# Threshing Speed Range: Pin Positions



You need to choose the low range threshing speed for corn. Dual speed range can be retrofitted.

## High:

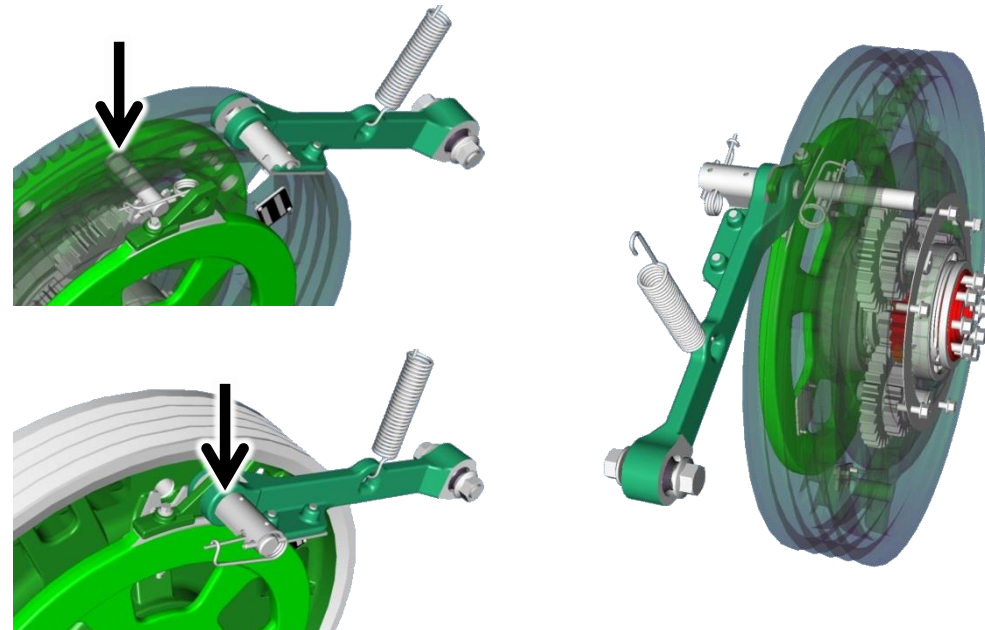
Inner Locking pin engaged

Outside pulley free

## Low:

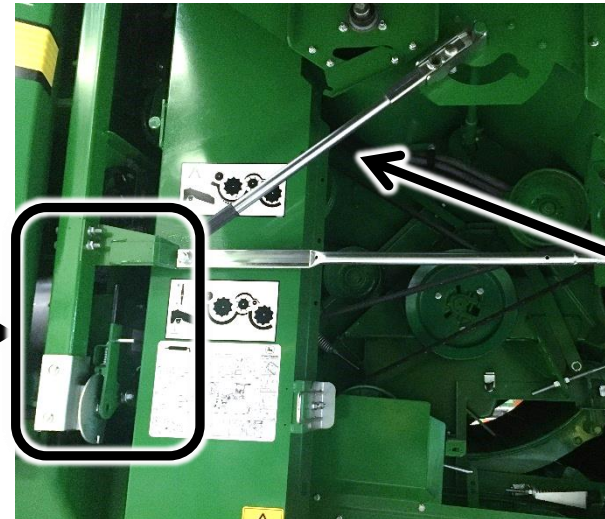
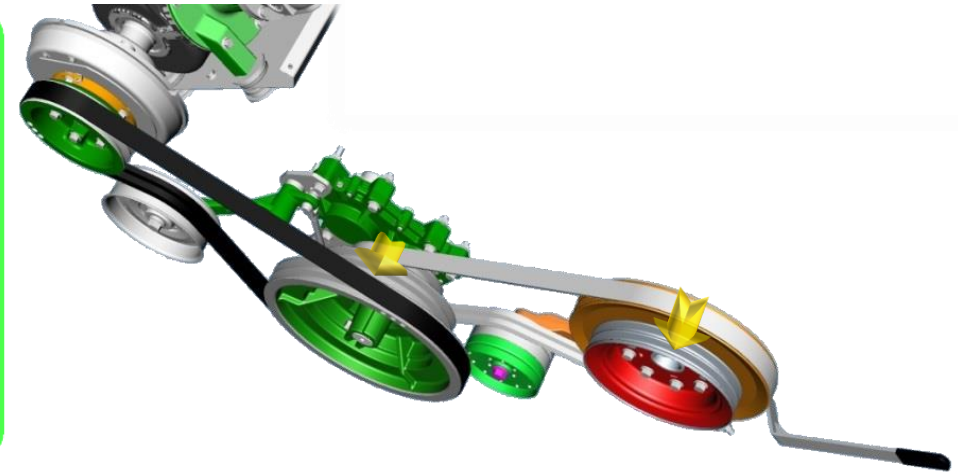
Inner locking pin free

Outside pulley locked



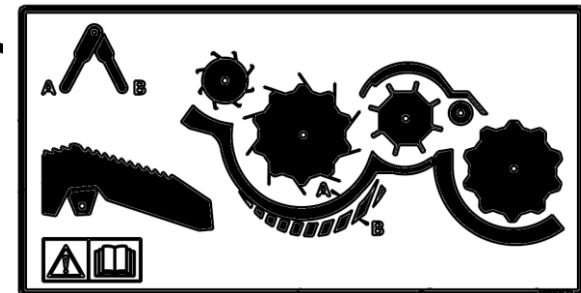
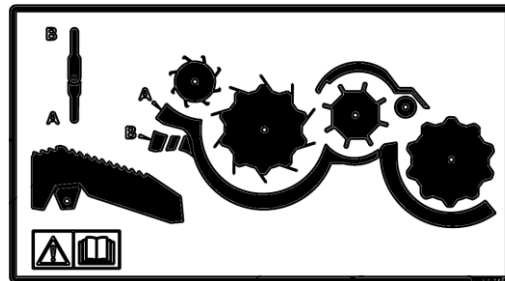
# Separation – T-Series

T-Separator grate pos.	Open
Rear beater grate position	Open
T-Separator speed	Low
Fish back	Not needed
Rubber Flap	Not needed
T separator speed reduction	Yes



Separator Grate Position

Rear beater grate position



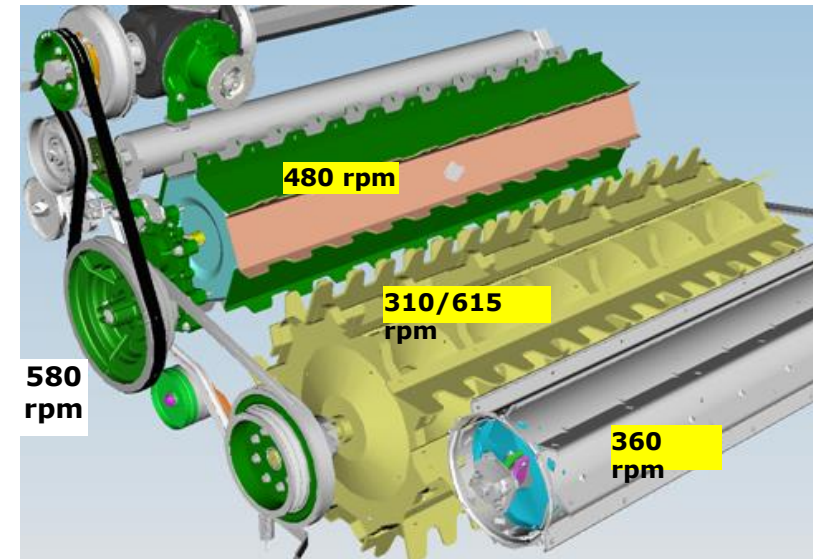
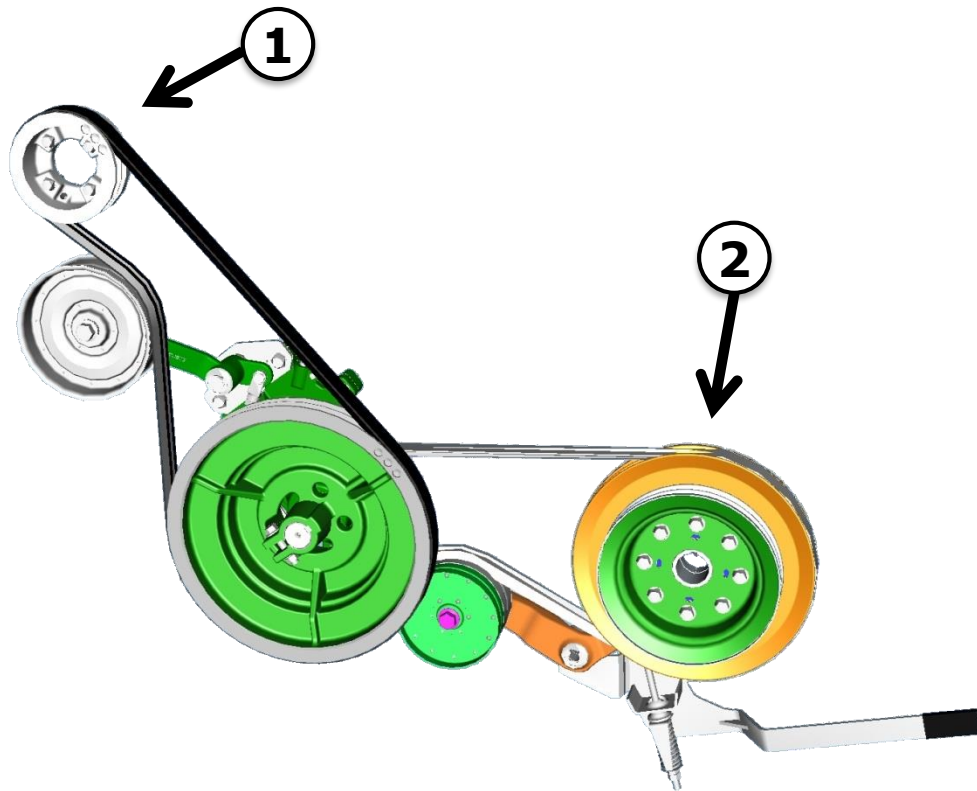


# T Separator Drive – Corn



For corn and other large grains (310rpm)

1. Power input from gearcase (reduced size)
2. T separator standard (dual) pulley

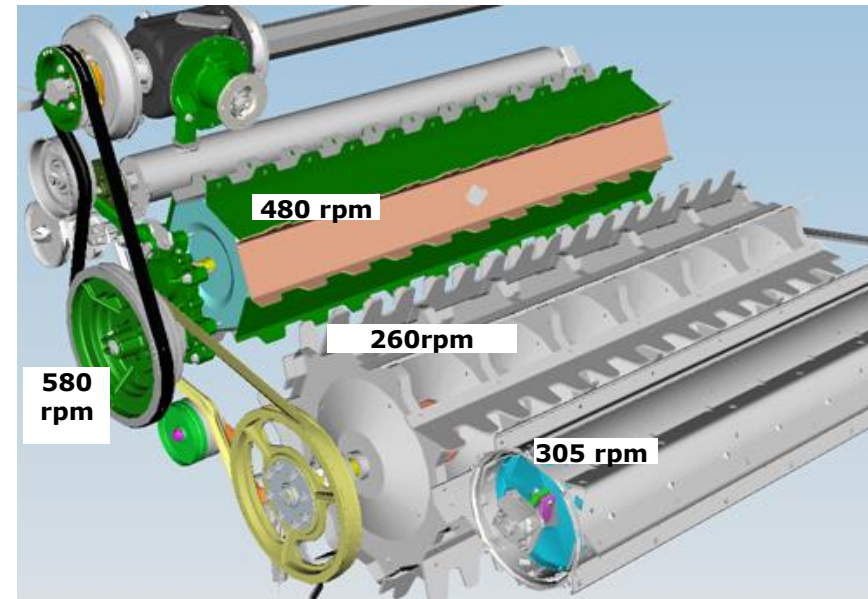
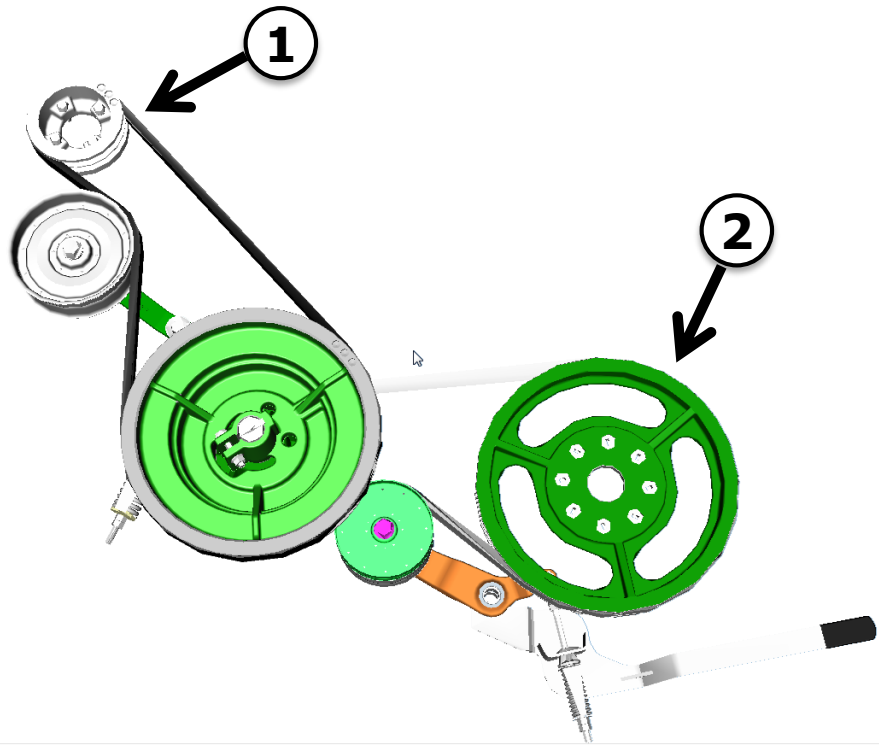


# T Separator Drive – Popcorn



For sensitive crops like popcorn, overshoot beater speed and rear beater speed can be reduced even further

1. Reduced size pulley for power input from gear case (as seen before)
2. Bigger Pulley T separator drive

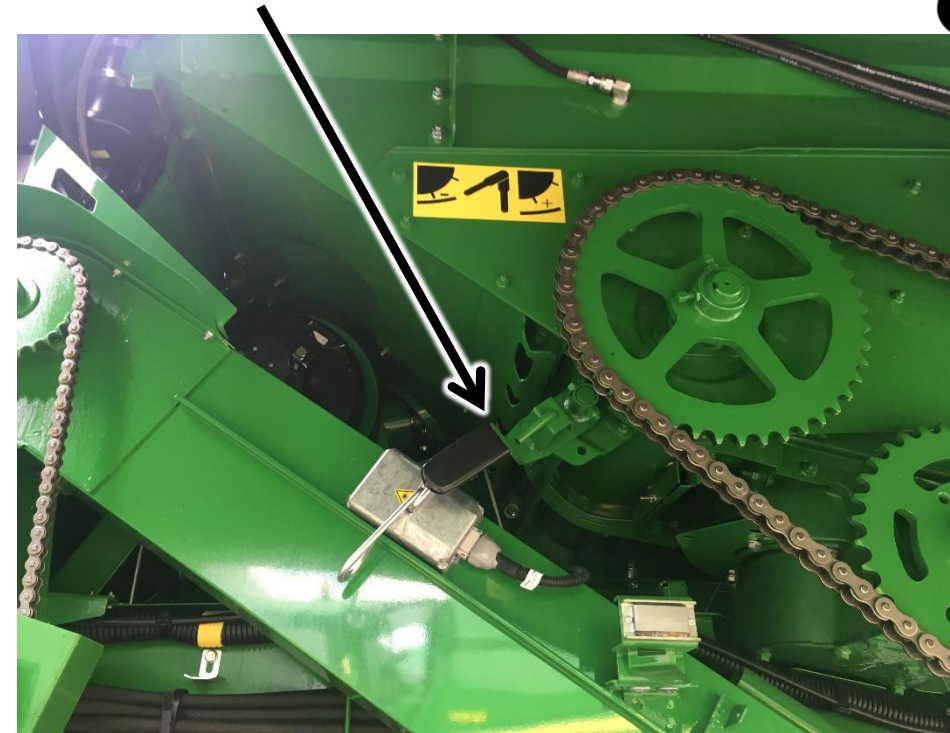


# Separation – W-Series



Rear beater grate position	Open
Rear beater speed reduction	Yes Modify RC1 Address 140 normal speed: 100 Reduced speed 75
Fish backs	No
Power Separator	If needed
Rubber Flap	Not needed

Rear beater grate position



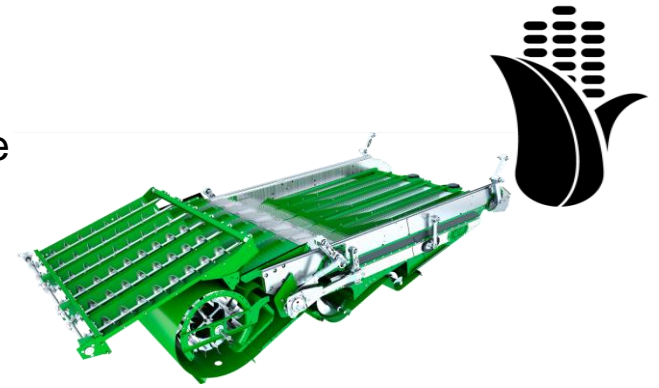
With speed reduction: 286mm & 217mm  
(AH163931 H135849 H135850)

Without speed reduction: 266mm each

# Cleaning Shoe – W&T Series

Cleaning shoe configuration depends on crop moisture. It is also different if you would like to harvest corn cob mix.

When changing sieve type Cab address 116 needs to be modified. This will make sure, that the clearance indicated in the display will correspond to the clearance of the chaffer / sieve. Contact your dealer for more information.



Moisture	<32%	>32%	Corn cob mix
Chaffer	17 – 22 mm standard chaffer	15 – 20 mm	22 mm Premium corn  Or frog mouth type
Setting Type	15 – 20 mm Deep tooth CZ3	Premium corn	
Sieve	11 – 18 mm Standard sieve	10 - 15 mm Deep tooth sieve (CZ3)	removed
Réglage Type	10 - 15 mm Deep tooth CZ3	Or removed	
Tailings cover	Yes as soon as there is no sieve installed		
Fan speed	1050 - 1350 tr/min		

# Chaffer And Sieve Types



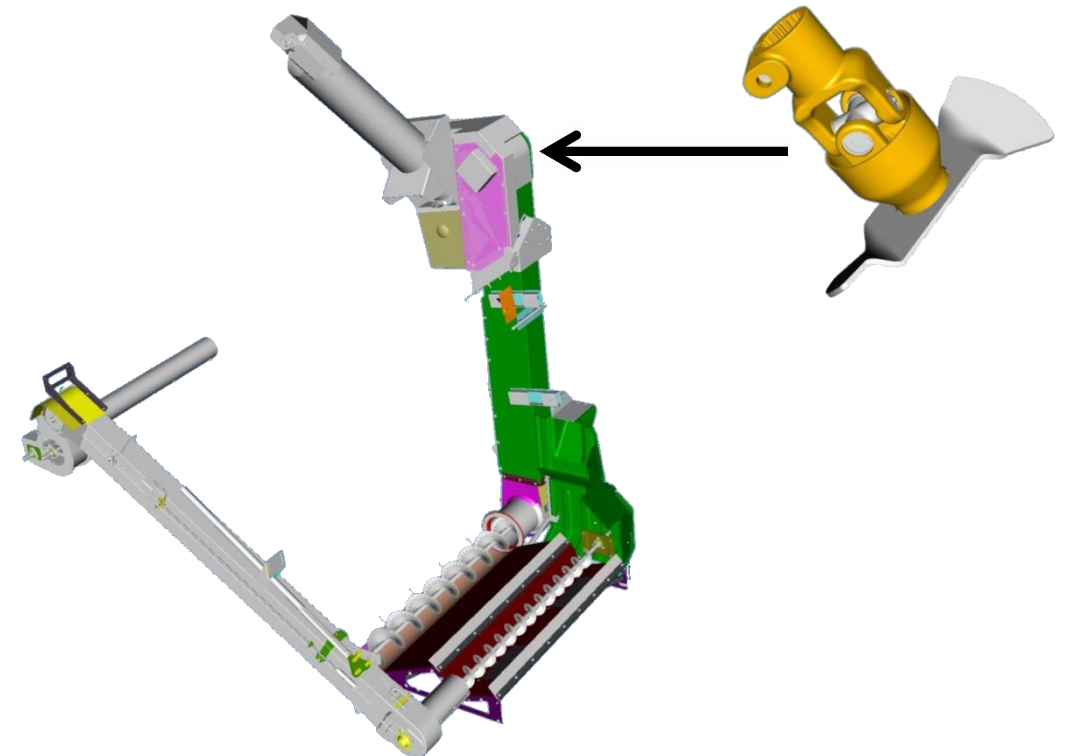
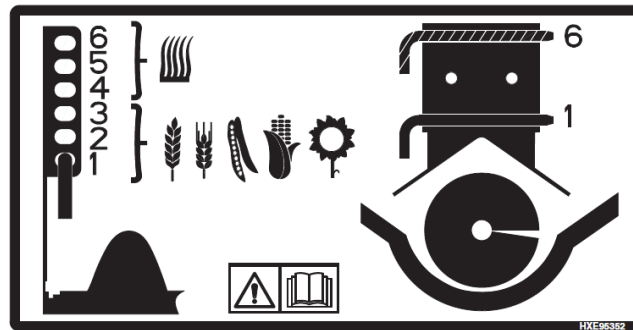
	Standard	<32%	>32%	Corn cob mix
<b>Chaffer</b>				
	22mm W/T5: AXE48967 W/T6: AXE47945 et AXE47947	32mm Not available for W&T Series	40mm W/T5: AXE63391 W/T6: AXE63395 and AXE63397	Frog mouth W/T5: AXE48126 W/T6: 2x AXE47992
<b>Sieve</b>			 	
	Type 10 mm W/T5: AXE60449 W/T6: AXE61522 et AXE61523	Type 22 mm W/T5: AXE60451 W/T6: AXE61528 et AXE61529	22mm Sieve	Or Tailings cover

The HP chaffer type is not suitable for corn

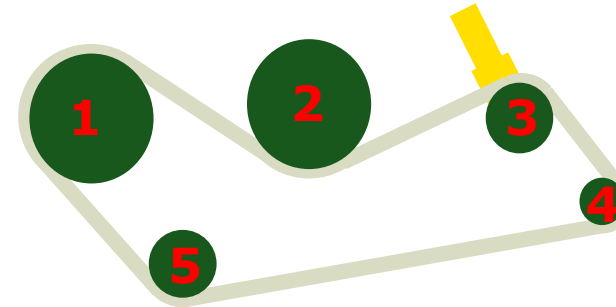
# Grain Handling



Clean grain elevator steel paddels	Needed in wet corn >25% moisture
Cross auger cover position	1-3
U-joint paddle	Not mandatory
Perforated doors for elevator, etc.	No
Slip clutch	Needed in wet corn >25% moisture
Grain tank speed changes	No - standard



# Grain Tank Speed Change Configuration



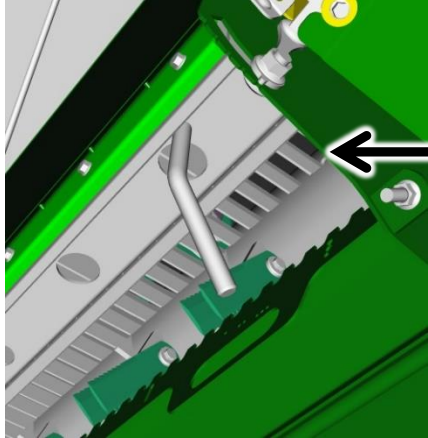
	1	2	3	4	5	chain
RUR standard	AH125070 49T	AH125070 49T	AH206131 24T	HXE33324 20T	HXE76913 46T	AXE55765 ¾in x198 links
Xtra fast standard	HXE63642 45T	HXE63642 45T	AXE27959 19T	HXE95326 21T	HXE63575 31T	AXE37810 1in x156 links
RUR grass	AH140001 60T	AH140001 60T	AH206131 24T	HXE33324 20T	HXE100784 34T	AXE56875 ¾in x204 links
RUR rice / corn	AH140001 60T	AH140001 60T	AH206131 24T	AH128074 17T	HXE100785 40T	AXE56875 ¾in x204 links
Xtra fast grass / rice / corn	HXE73865 54T	HXE73865 54T	HXE43629 19T	HXE64040 19T	HXE63575 31T	AXE57022 1in x162 links

**RUR: Regular unload Rate 88l/s**  
**Xtra fast: Xtra fast unload rate 125l/s**

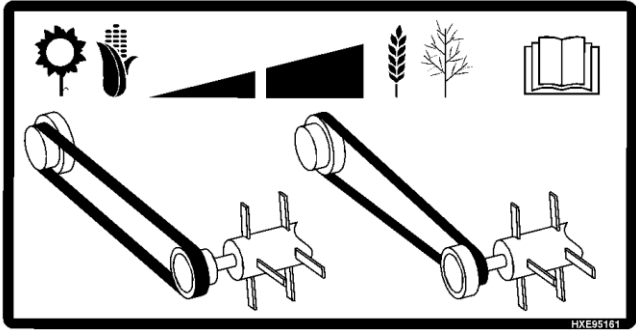
# Residue



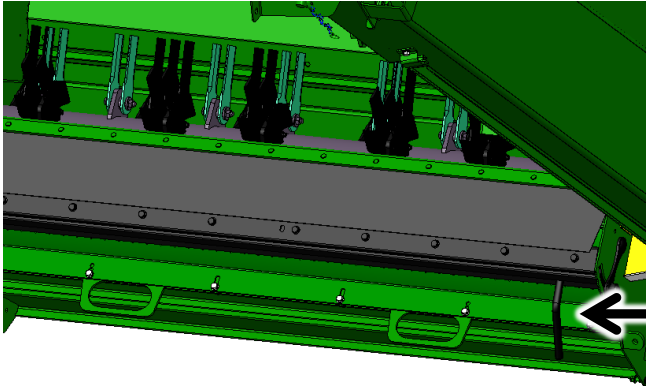
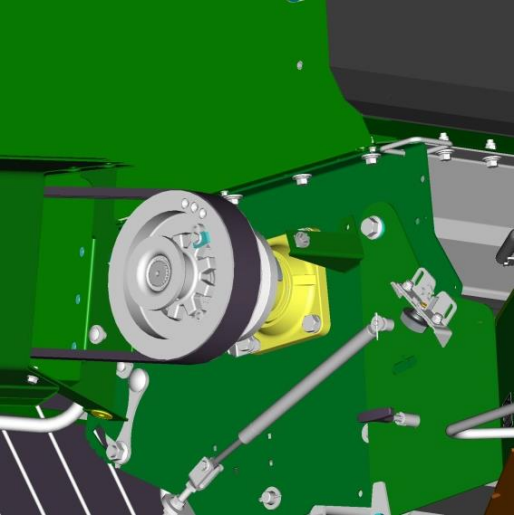
Speed of chopper	Low speed
Counter knife position	Removed
Position of cross bar	Removed
Chaff Spreader speed valve	Low
Cob deflector	Yes



Counterknife



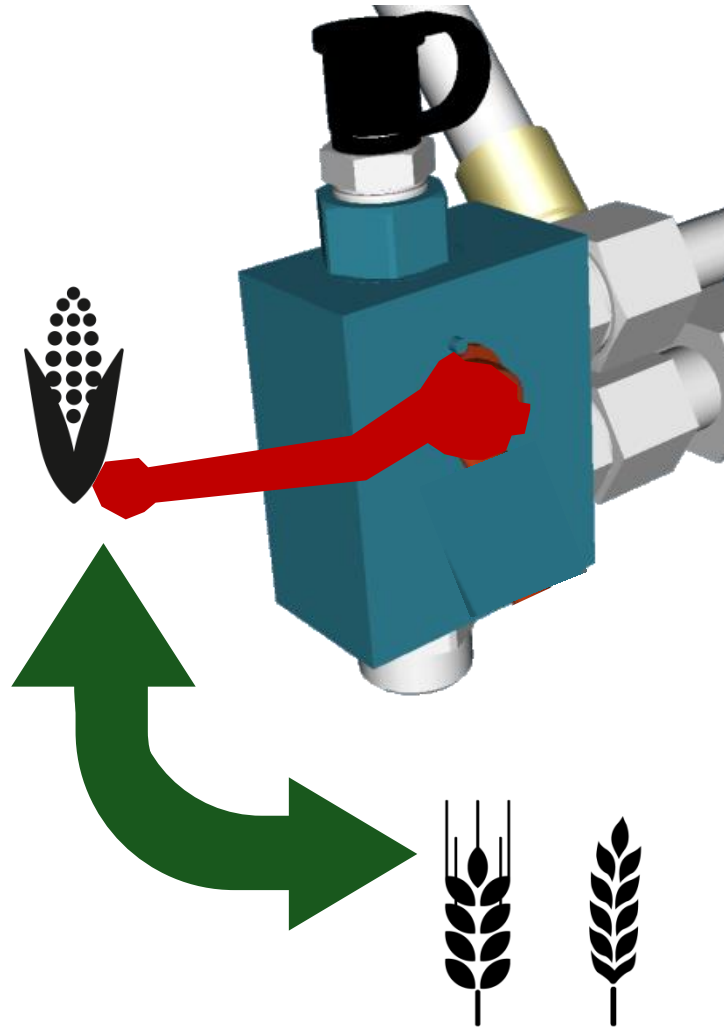
Chopper speed



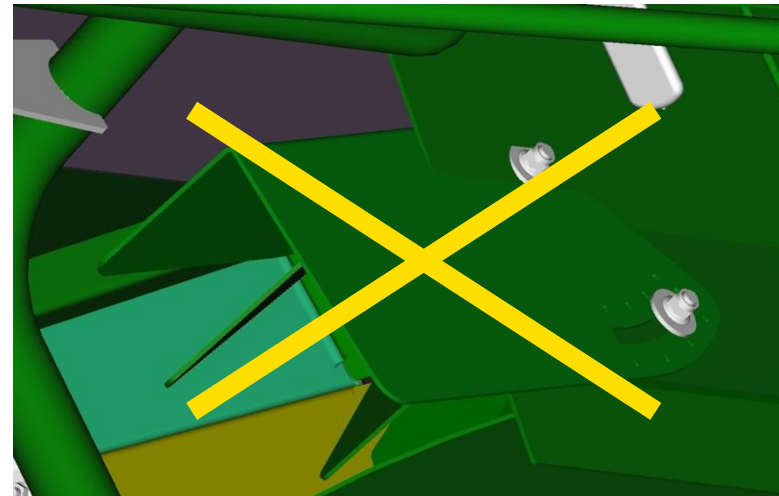
cross bar



# Chaff Spreader - Speed & Vanes



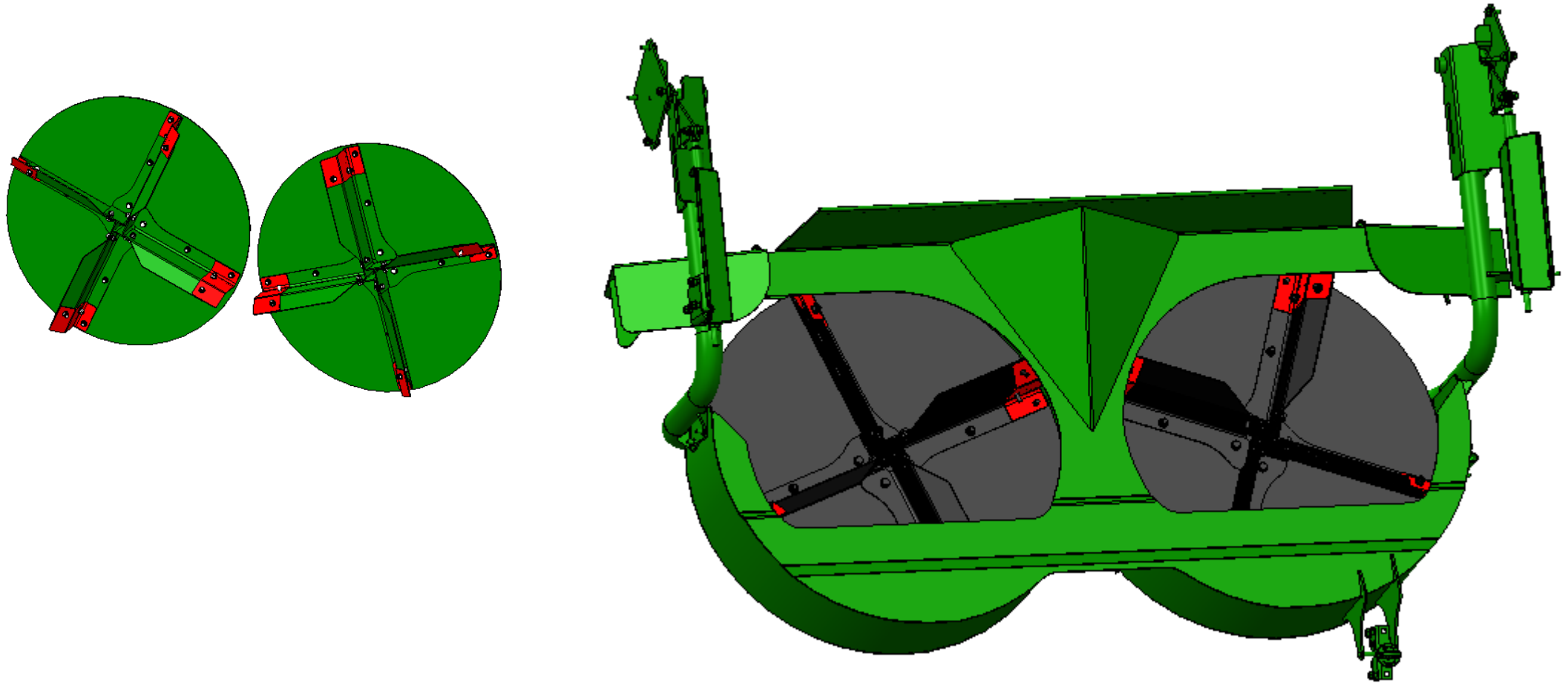
Vane adjustment:  
Adjust to working width depending on  
crop type and conditions.



# Chaff Spreader



1. Remove outer paddles (red marked) at the chaff spreader discs:

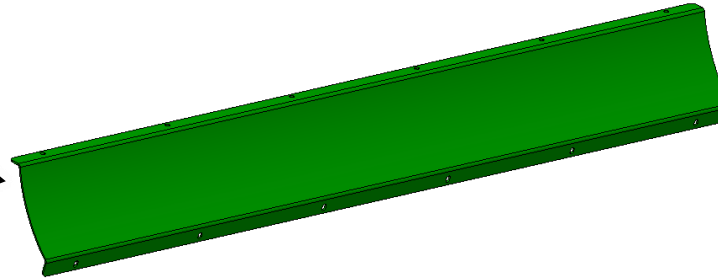


# Chopper

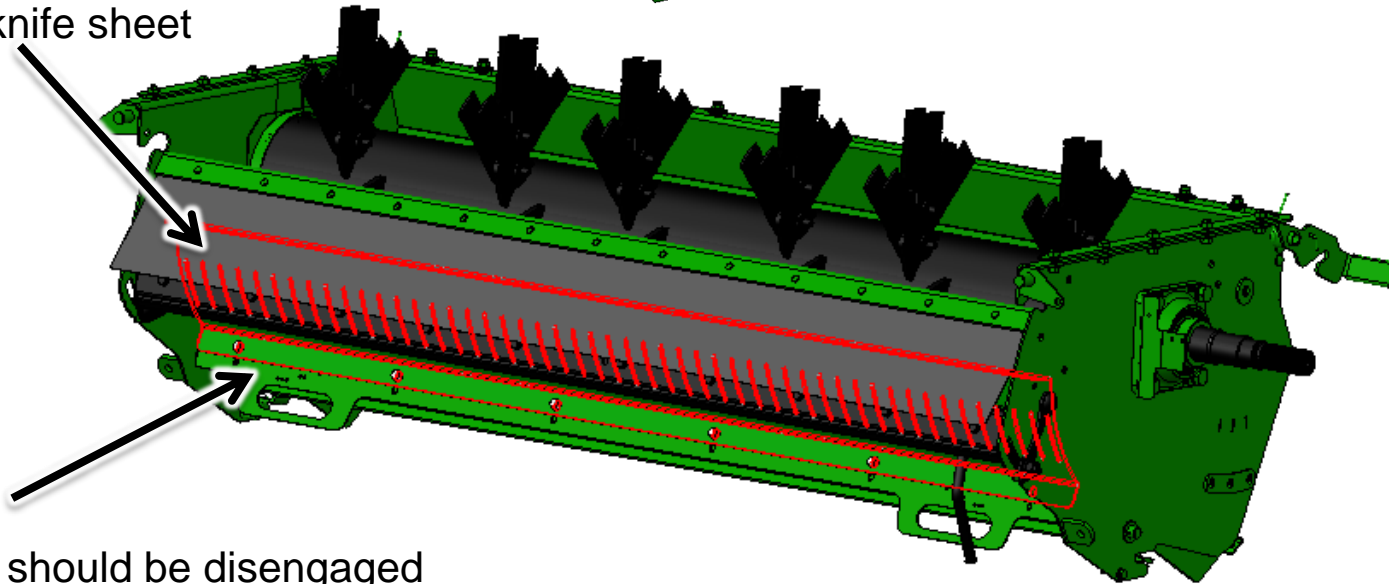
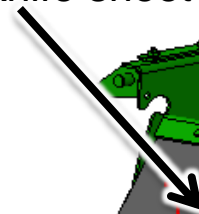


Remove counter knife bar and replace counter knife sheet by:

Cover sheet for corn



Counter knife sheet



Cross bar should be disengaged

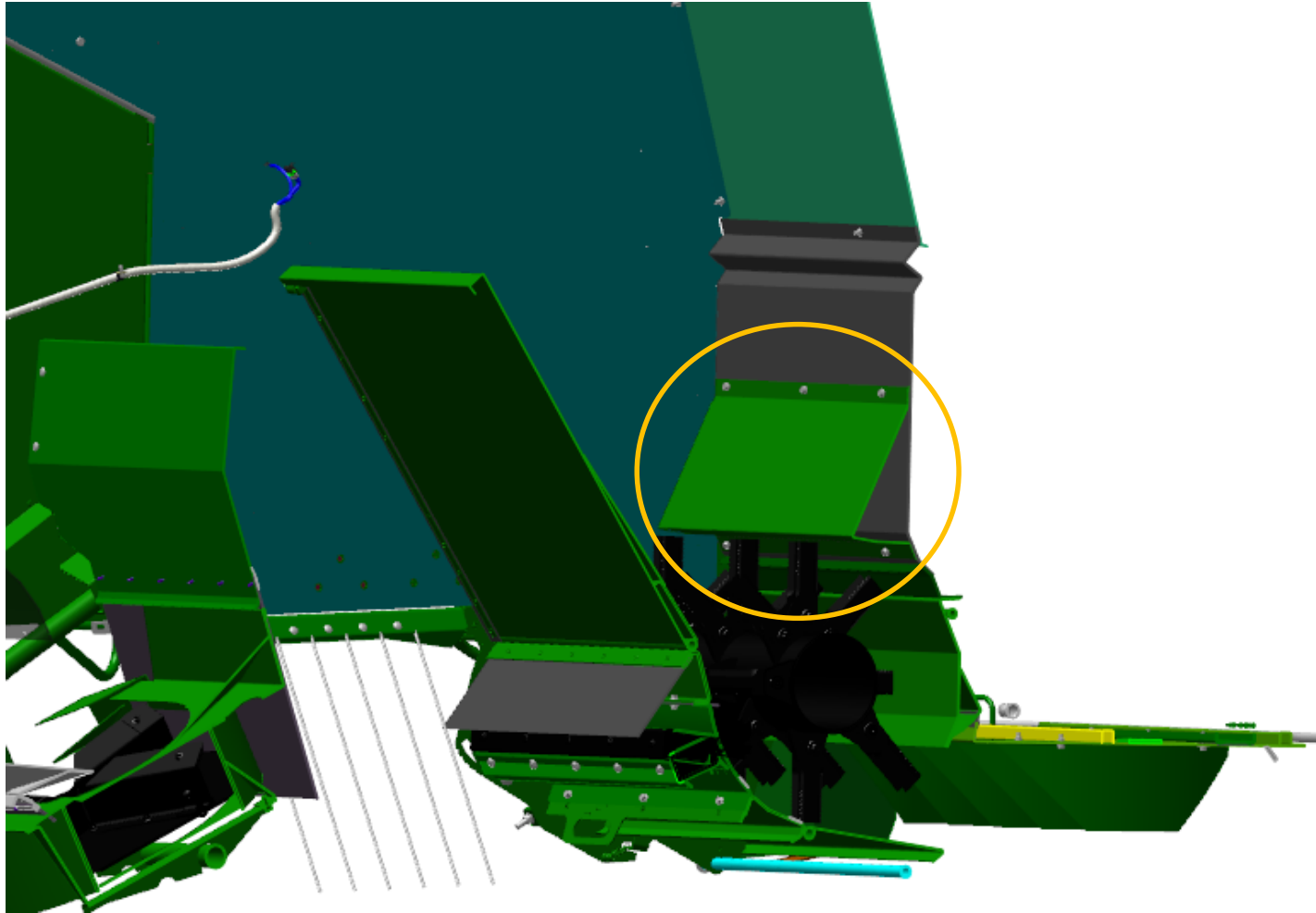
Only on FineCut chopper:

For corn harvest please replace 4mm smooth knives with 5mm knives (smooth or serrated)

# Straw Hood



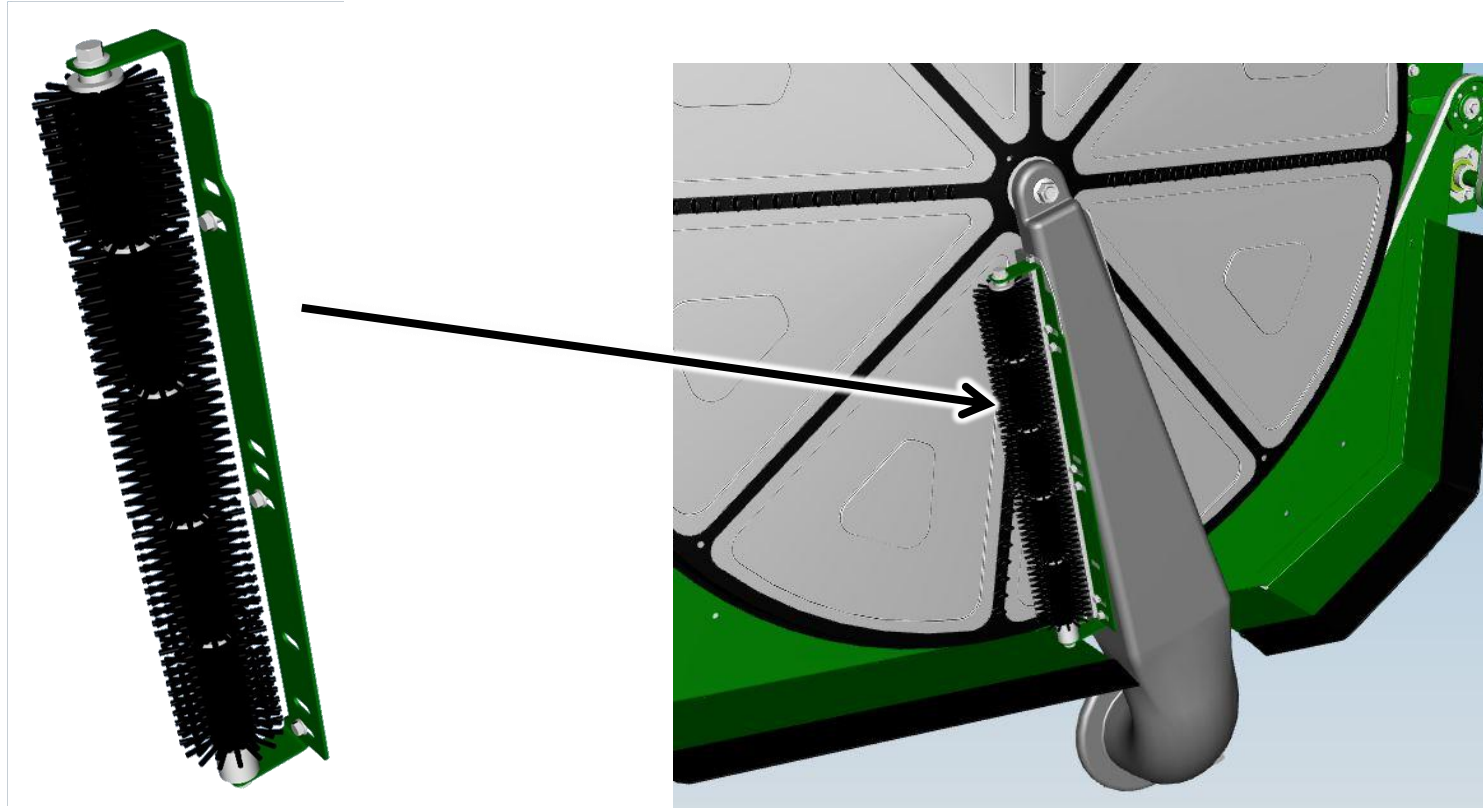
Mount corn cob deflector in the straw hood:



# Rotary Screen Brush



Install rotary screen brush:



# Addresses for corn conversion



Control Unit	Address	Display	Description	Details
CAB	116	___ X X X n n	Remote shoe adjust sieve element type.  NOTE: This address applies beginning with model year 2016 combines.	0 = Not installed 1 = W and T series general purpose 9 = 500 Series W/T and STS DF4 general purpose 10 = 500 Series W/T and STS DF4 deep tooth 11 = 600 Series W/T DF4 general purpose 12 = 600 Series W/T DF4 deep tooth
CAB	116	___ X n n X X	Remote shoe adjust chaffer element type.  NOTE: This address applies beginning with model year 2016 combines.	0 = Not installed 1 = W and T series general purpose 9 = 500 Series W/T w/DF4 general purpose 10 = 500 Series W/T w/DF4 deep tooth 11 = 600 Series W/T DF4 general purpose 12 = 600 Series W/T DF4 deep tooth
CAB	118	X X X X X n X X	Spreader control configuration	0 = No chaff spreader 7 = Chaff spreader installed
RC1	140	_____ n n n	Rear beater speed reduction – only W-Series  A ratio of the pulley diameters (threshing Cylinder to rear Beater).	100 = WTS Rear Speed Reduction Kit Not Installed (default)  75 = WTS Rear Speed Reduction Kit Installed



**JOHN DEERE**