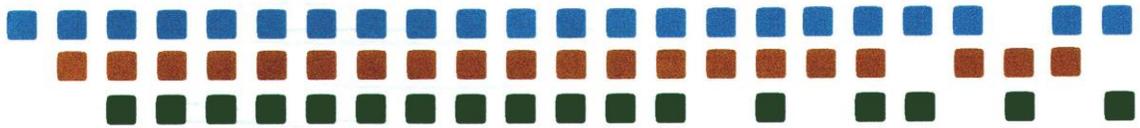


# Operator's Manual



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## **INTRODUCTION**

Dear Customer,

The following is some useful information provided to help ensure efficient and safe operation of this corn head.

**Read this manual** carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

**This manual should be considered** a permanent part of your machine and should remain with the machine when you sell it.

**Since the corn head is universal type**, carefully read your combine specifications and follow the combine manufacturer's recommendations for usage, set-up and operation of the combine.

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**SAFETY**



**This is the safety-alert symbol. When you see this symbol on your machine or in this manual carefully read the message that follows, and be alert to the possibility of personal injury or death.**

**Follow recommended precautions and safe operating procedures.**

**UNDERSTAND SIGNAL WORDS**

**A signal word – DANGER, WARNING, or CAUTION – is used with the safety-alert symbol. DANGER identifies the most serious hazards.**

**DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.**

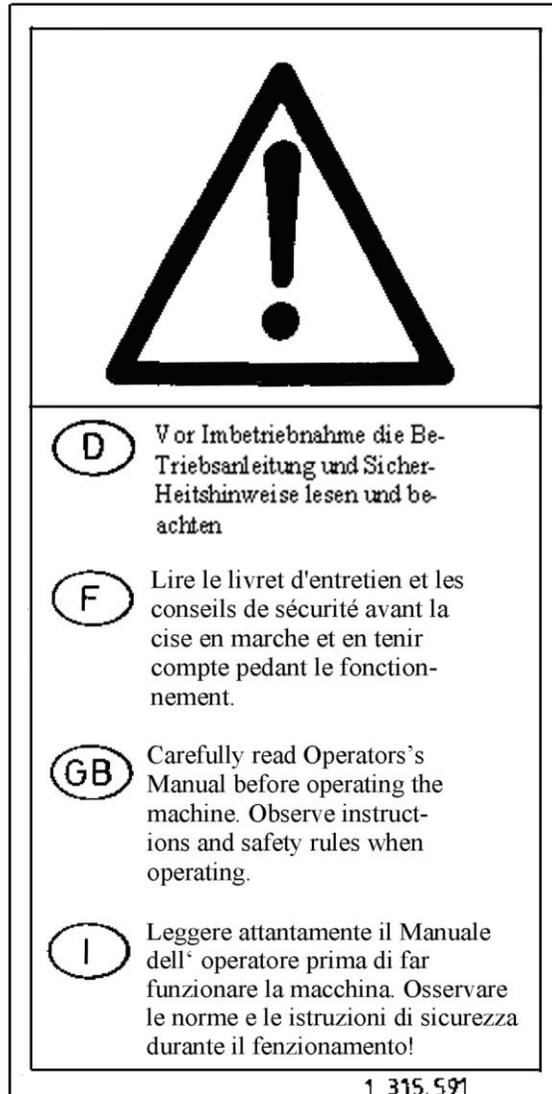
**FOLLOW SAFETY INSTRUCTIONS**

**Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new components and repair parts include current safety signs.**

## GENERAL SAFETY GUIDELINES

1. **ALLOW ONLY** trained and experienced operators to operate your machine. Operating this equipment safely requires the full attention of the operator. Do not wear entertainment headphones while operating this machine.
2. **ALWAYS DISENGAGE** header drive, shut off the engine and remove key before servicing, adjustment, maintenance and lubrication to your corn head.
3. **STAY CLEAR** of the header when it is in operation.
4. **DO NOT OPEN** safety shields or covers while your corn head is running.
5. **ENGAGE** the lock on the feeder lift cylinder before doing any work under or around the corn head.
6. **CHOPPER KNIVES** must not be installed without security locking pins.
7. **WORN or DAMAGED CHOPPER KNIVES** must be replaced before operation of the corn head. Radial clearance between knife and bushing must be properly maintained. See details in this manual.
8. It is **FORBIDDEN** to remove the warning labels from the machine. If they become damaged or illegible they have to be ordered as shown in the Figures.
9. It is **FORBIDDEN!** to remove the safety hydraulic valve of the folding corn head located on the upper support.
10. It is **FORBIDDEN!** to close or open the folding corn head when it is in operation.

## SAFETY DECAL

**1.315.591**

Carefully read Operator's Manual before handling the machine. When operating observe safety instructions.

**FRONT SIDE**

Two reflecting strips are located at the ends on the front of the top beam facing forwards.

**Fig A:** Two decals are located on the front side of the header rear sheet (on each side of the feeder opening).



**FIG A**

**REAR SIDE**

Two red reflector strips are located at the ends on the rear of the end shields facing rearward.

**FIG B.** Two decals are located on the rear side of the header back sheet (on each side of the feeder opening).



**FIG B**

**FIG. C:** Two decals are located on the rear of the end shields.

**NOTE:** Four-row Corn Head will have one or two decals depending on the quantity of drive shafts.



**FIG C**

**FIG D:** Two decals are located at the ends on the rear side of the header back panel above the drive shafts.



**FIG D**

	
<p><b>1.315.438 2 Decals</b></p>	<p><b>1.315.439 2 Decals</b></p>

	
<p><b>1.315.440 2 Decals</b></p>	<p><b>1.315.590 2 Decals</b></p>

**IDENTIFICATION, TECHNICAL DATA**

**1. Identification**

The corn head mounting is universal, so it can be assembled on specific combine types with the appropriate mounting kit. A mounting kit is assembled to the corn head at the factory when a machine is ordered. A data plate is provided located on the left side of the machine's upper support.

<b>HARVESTEC</b>			
Made in Hungary <input type="checkbox"/>	MODEL No: <input type="checkbox"/>		
YEAR PRODUCED: <input type="text"/>		WEIGHT: <input type="text"/>	
SERIAL NUMBER: <input type="text"/>			

The model number refers to the following: for example: HARVESTEC 630

- Universal corn head
- 630 6-row fix frame corn head with 30” row spacing
- HSA provided with stalk shredder located under the snapping roll

**2. Technical data**

2.1. Dimensions (in operating condition)

	Width(mm)	Length(mm)	Height(mm)
6-row 28-32"	4720	2950	1100
6-row 36-40"	5720	2950	1100
8-row 28-32"	6320	2950	1100
8-row 36-40"	7720	2950	1100

2.2. Dimensions (in shipping condition)

	Width(mm)	Length(mm)	Height(mm)
6-row 28-32"	4720	950	2170
6-row 36-40"	5720	950	2170
8-row 28-32"	6320	950	2170
8-row 36-40"	7720	950	2170

2.3. Weight:

	Corn Head with <u>Steel</u> Snouts/Dividers (less chopper)	Corn Head with <u>Plastic</u> Snouts/Dividers (less chopper)	Corn Head with <u>Steel</u> Snouts/Dividers (with chopper)	Corn Head with <u>Plastic</u> Snouts/Dividers (with chopper)
4-row	1650 kg	1490 kg	1780 kg	1620 kg
6-row	2000 kg	1775 kg	2195 kg	1970 kg
8-row	2650 kg	2360 kg	2910 kg	2620 kg
6-row folding	2250 kg	2025 kg	2445 kg	2220 kg
8-row folding	3205 kg	2915 kg	3465 kg	3180 kg

2.4. Lubrication specification: SAE 90 standard lubricating grease.

2.5. Pitch of the gathering auger is 450 mm.

2.6. Input shaft speed of the snapping unit drive: 550-620 rpm

2.7. Length of chopped stalk:

HSA = average 70 mm, depending on crop conditions.

2.8. Adjustment of the snapping plate is centrally electrical in-cab control switch.

2.9. Adjustable for row spacing

28"-30"-32"-(70 cm-76.2 cm-80 cm)

36"-38"-40"-(90 cm- 96.2 cm-100 cm)

**SHIPPING CONDITIONS**

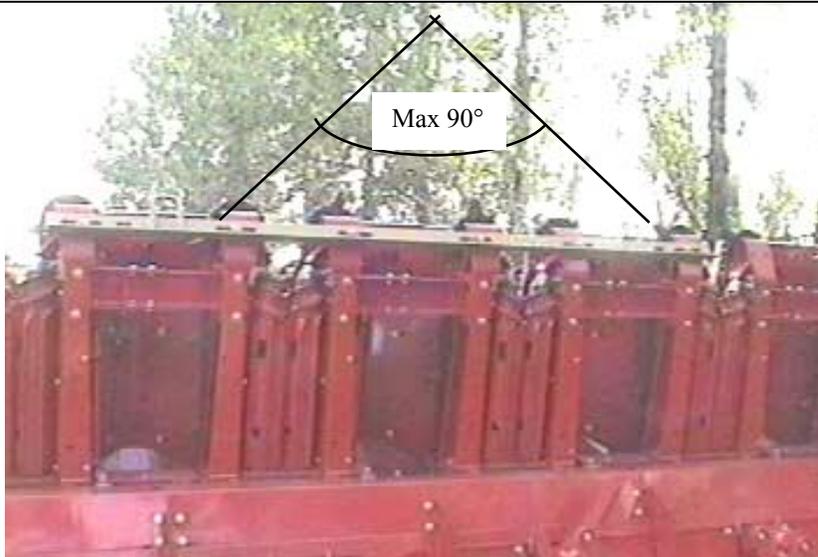
Your corn head is delivered with gearboxes filled with oil, and packaged on a shipping skid.

Oil levels should be checked before putting the Corn Head into operation.





The corn head can be lifted with a suitable crane or forklift. When choosing lifting equipment consider the weight as detailed in the Chapter 1, point 2.3. When lifting with a cable or chain, the included angle should not exceed 90°.



The minimum cable length 'L' to not exceed the max. 90° angle:  
for 6-row fixed and folding frame and 8-row fixed frame is 1100 mm

The cable length should be equal on each side.

Use only a cable, which has capacity for the weight of the machine.

## **MOUNTING THE CORN HEAD ON THE COMBINE**

After removing the Corn Head from the shipping container, and while on shipping stand

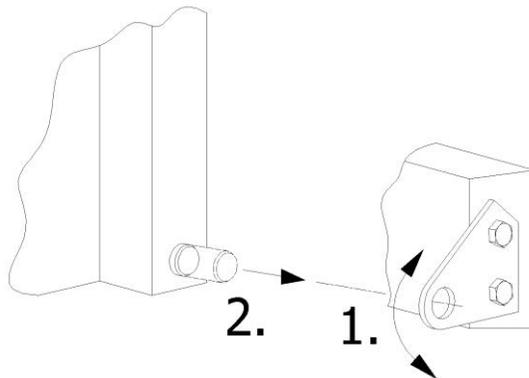
- Remove the parking stands and snouts from their stored shipping position
- Install parking stands in their retracted (transport) position
- Carefully lower the machine to horizontal position with a cable attached to lifting hooks.
- Disassemble the transport skid after the machine is resting securely in horizontal position.

The corn head is shipped from the factory with mounting kit installed as ordered. If the corn head will be mounted to a different combine than ordered for, remove the factory installed mounting kit and install the required mounting kit as recommended for your combine.



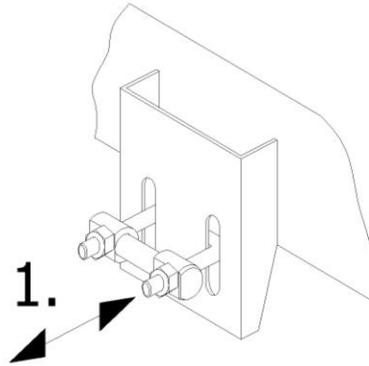
After the above operation and with the specified mounting kit securely attached to the Corn Head, engage and securely attach the Corn Head to the combine according to Combine Manufacturer's instructions and engage the feeder lift cylinder safety stop and secure the lower latches.

### **John Deere** **9000 series**



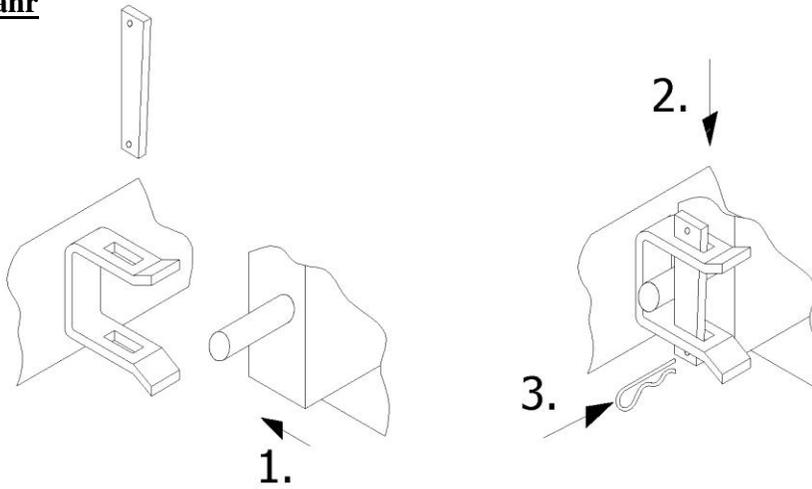
Insert the spring pivot pin of the feeder house into the hole of the secure plate, which is assembled on the lower support. If it is required adjust the shaft alignment.

**CASE IH**

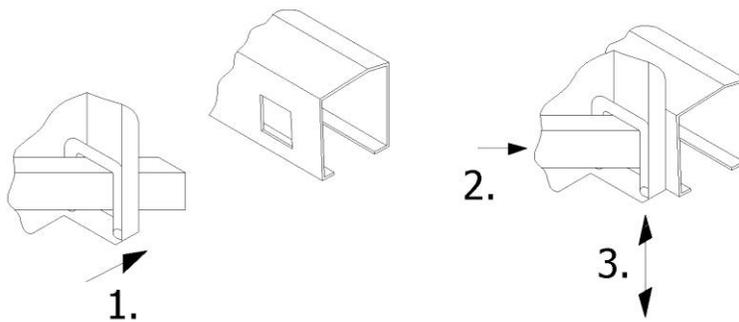


If necessary, adjust the nuts on the U-bolts to get the required force on the latches. Refer to the combine Operator's Manual for the correct adjustments and latching methods.

**Deutz-Fahr**

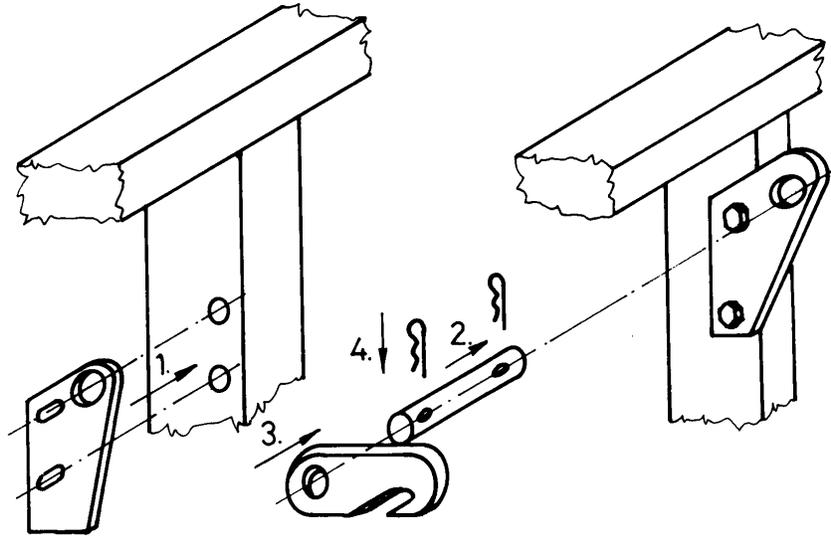


**Fiat-Laverda**



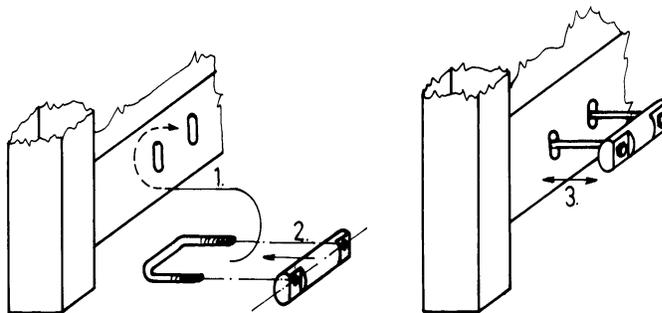
**New Holland**

- For fixed frame corn heads



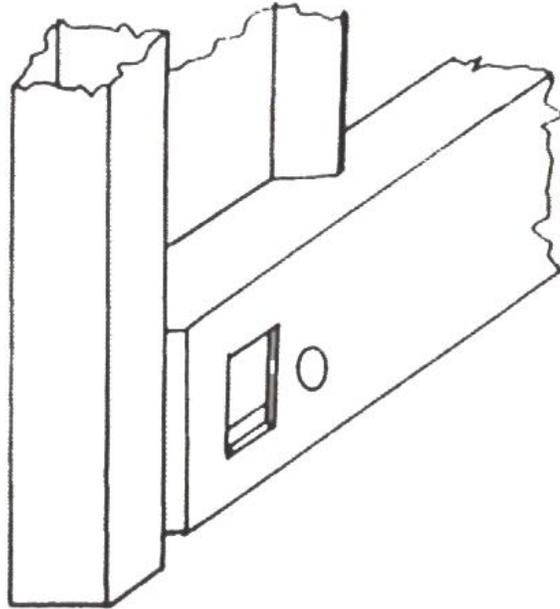
Adjust the position of the feeder house's arm to the collar clamp. If the proper position is not attainable, change the original arm of the feeder house with the arm supplied as an attachment.

**MF 8570; 8590**

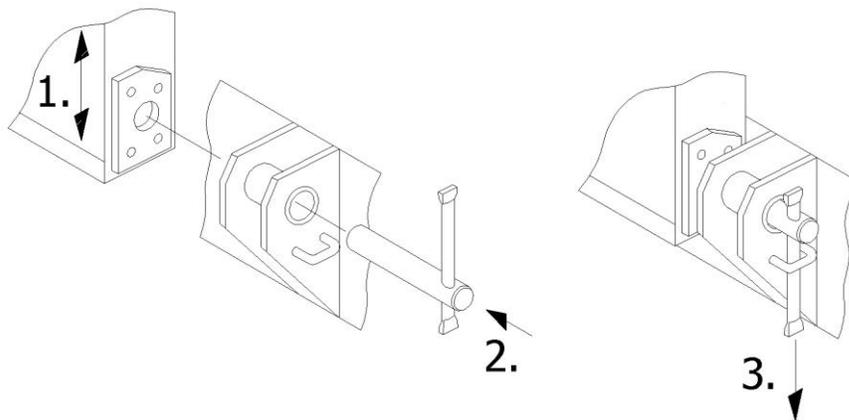


If necessary, adjust the nuts on the U-bolts to get the required force on the latches. Refer to the combine Operator's Manual for the correct adjustments and latching methods.

**MF 8680; 8780; Gleaner R; Gleaner C**



**Claas Mega, Claas Dominator, Claas Lexion**



When the corn head is properly attached and secured to the combine, and the feeder lift cylinder stop is engaged, disassemble the angle steel lifting bracket from the snapping unit.



Assemble the snout using the pivot bolts supplied at the front attaching points



Steel Snout/Dividers Shown

Next, attach the drive shaft couplers. The spare parts list shows the coupler elements of the corn head, which suit the type of combine as listed.

The shaft of the folding corn head is adjusted at the factory to align with the feeder shaft. Please check the shaft alignment and adjust it if it is necessary, (except for New Holland type).

The 6-8-row fixed machines are supplied with Bondioli & Pavesi universal PTO drive shafts and protective shield. These are installed at the factory with the original protective shields as supplied by the shaft manufacturer.



Position the protective shield for of the feeder drive shaft, according to the combine's operator's manual, after connecting to the feeder house's drive shaft.



To prevent the rotation of the universal drive shaft shield, attach both original chain restraints to the corn head.

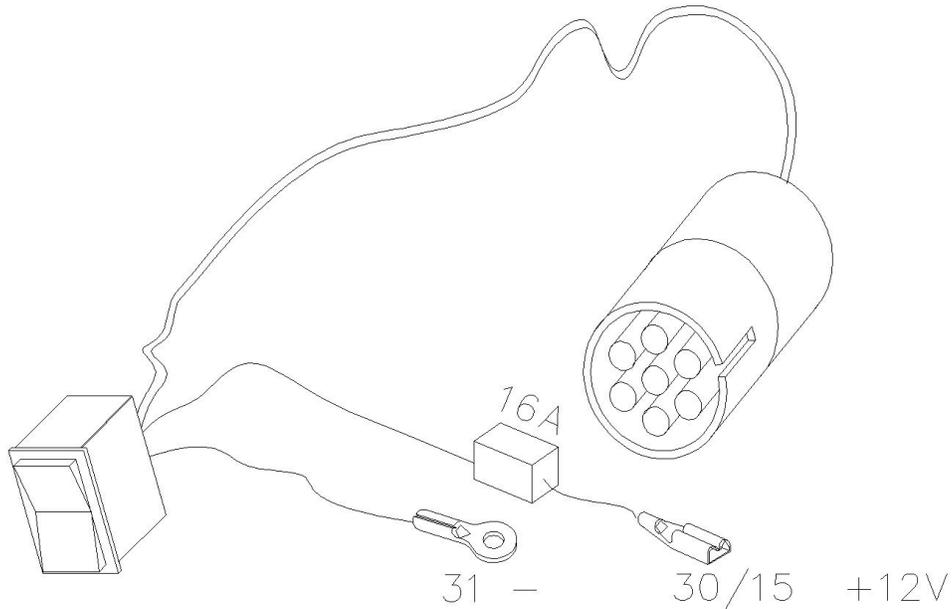


The drive shaft/coupler shields of the 6-row folding corn head are shown in the spare parts list.

These shields must be adjusted and installed correctly.

The length of the shields can be adjusted using the slotted holes, to ensure complete and full length guarding of the driving element.

Connect the electric snapping plate adjuster according to the following figure.



The plug is connected on line # 1, 7 in the factory.

**RUN-IN PROCEDURE**

A 20 minutes trial run is suggested after the initial mounting.

Start the combine and engage the drive with the engine speed at low idle, and run it slowly.

Avoid starting the drive at high speed as the inertia from accelerating can increase the load by 8-10 times more than the full steady speed operational load. High-speed start-up may cause damage to the drive system and safety clutches.

After the slow speed start, increase the speed to a medium level. Listen for abnormal clicking sounds while the machine is running. If no irregularity is observed, the speed can be increased to maximum level and should be run at this speed for about 10 minutes.

When the trial run has been completed, shut off the engine, remove the key and check the temperature of the drive elements, bearings and drive units. No irregular overheating should occur.

## **SETUP PROCEDURE AND ADJUSTMENT OF THE CORN HEAD**

### **1. Frame**

The fixed frame machines are provided with parking stands, which must always be used when the machine is to be disconnected from the combine. Before detaching the corn head from the combine, adjust the parking stand position such that the distance between the ground and the lower support of the corn head is about 30 cm (12 inches).

Adjust the stand position by removing and replacing the retaining pin, and re-installing the hairpin.



There is no adjustable parking stand for the folding corn head.

### **2. Gathering auger**

The gathering auger is driven through a torque-limiting clutch, to disengage excessive loads on the drive. This clutch is located on the left-hand side.

In some conditions it may be necessary to change the speed of the gathering auger. An additional sprocket is available to permit changing the auger speed to match field conditions.

Two types of flighting are available to satisfy the combine and field requirements.

	
<p>Finger Type</p>	<p>Auger Type</p>

### 3. Drive units

The speed of the drive units has been determined for optimum performance. The replaceable sprockets permit speeds to satisfy varying harvesting conditions

The corn head is set at the factory such that the speed of the snapping unit input shaft is about 550 rpm. With the attached replacement sprocket, the shaft speed can be set to 600 rpm. It is not recommended to exceed 600 rpm.

Do not over tighten the drive chain. Adjust the idler only to remove loose slack in the chain. Check chain tension after the first 50 working hours.



A security pin is provided for the latch of the drive shields and side shield. This pin should never be removed. To open the shield, first release the security pin using a tool as shown.



#### 4. Snapping units

A schematic in the parts book shows the arrangement of snapping unit for the various row spacing. Modification of the row spacing is described in chapter VII.

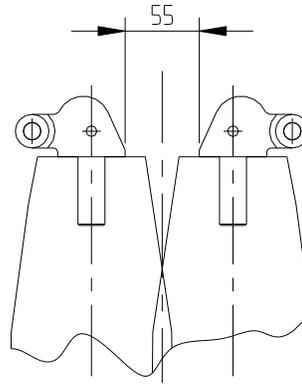
##### 4.1. Adjustment of the snapping rolls

Three important settings must be observed when installing or adjusting the snapping rolls.

##### 4.1.1. The shaft distance of the snapping roll

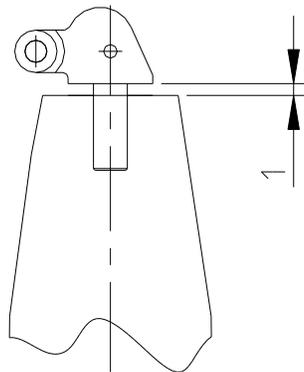
The basic adjustment is a parallel shaft distance, set to 55mm (2.2 inches) between the two bearing houses as shown in the illustration (on next page). This distance can be increased or decreased with a washer used as spacer, as required to suit smaller or larger stalks as typical in some regions. For example, in South Africa it may be necessary to increase this dimension, as the diameter of the stalk can be 55-60 mm.

If the snapping rolls wear excessively, it is possible to compensate by adjusting the setting dimension as low as 48 mm (1.9 inches).



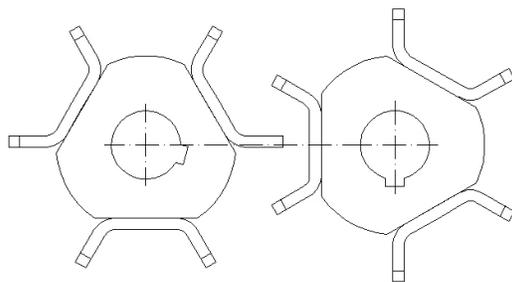
**4.1.2. Setting labyrinth seal**

A needle bearing is used to support the spiral end of the snapping roll. Two gasket rings and labyrinth seal protect it. This seal is effective only if the distance between the stationary bearing block and the rotating snapping roll is not larger than 1 mm (.04 inches)

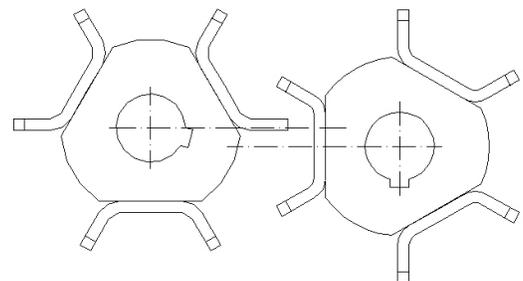


**4.1.3. Alignment**

The supporting bearing block is mounted on the snapping roll frame with slotted holes. Visual setting is suitable.



Correct

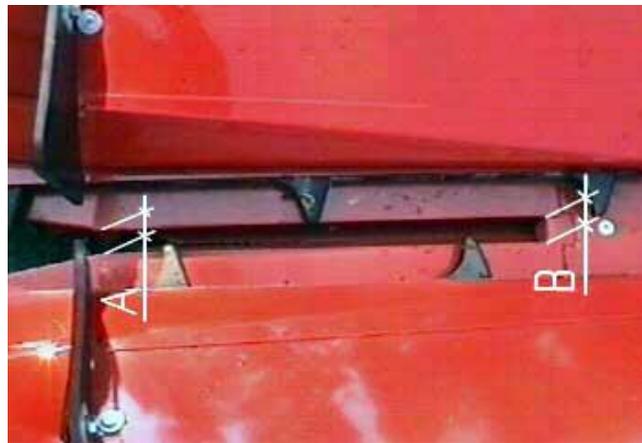


Incorrect

#### 4.2. Snapping plate settings

The basic factory setting is 27-32 mm (1-1/16 to 1-1/4 inches). Essentially, the snapping plate spacing should be 5 mm (3/16 inches) closer at the front end than at the rear end. The central snapping plate adjusting mechanism can change the spacing from the nominal position 6 mm closer together and 10 mm farther apart. Based on the above data set the mechanism as follows:

- Check to ensure that the fixed snapping plate is aligned with the inner side of the plastic chain guide. It can be re-positioned by loosening the three retaining screws. After setting, tighten the screws.
- Set the in-cab adjustment to minimum position.
- Set the moveable snapping plate relative to the fixed one (21 mm at the front and 26 mm at the back), and fasten securely. In-cab operation should result in the 27-32 mm distance. Effort should be made to set the same value on each row to ensure the same operation of all the snapping units. With regards to the dimension marks in the Figure, after the initial setting, A=21 and B=26; after the adjustment for the central mechanism A=27 and B=32.



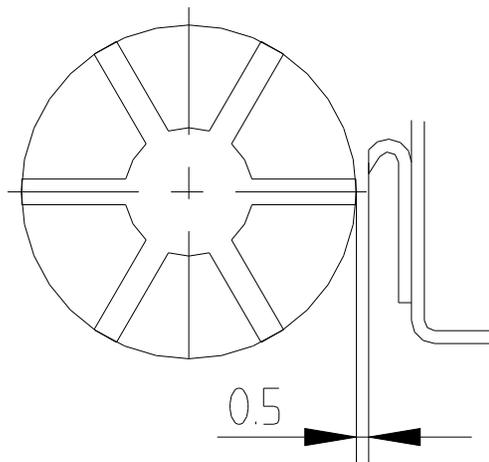
#### 4.3. Adjustment of vine knives

The knives are made of spring steel and are hardened.

If the adjustment is correct, material will be prevented from wrapping on the snapping roll.



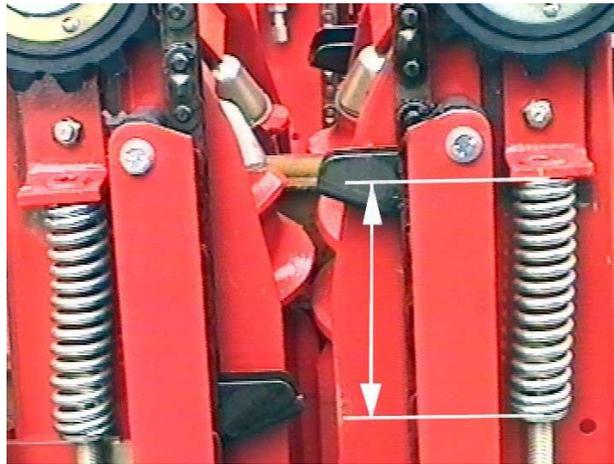
The maximum gap between the vine knife and the stalk roll is 0.5 mm (.04 inches). This gap should be set on one rib and all rib clearances should be checked by the rotation of the roll to ensure no interference. Adjustment is made by loosening the four M-10 screws. To make a fine adjustment, 2 relief holes are provided.



#### 4.4. Setting the chain tension of the gathering chain.

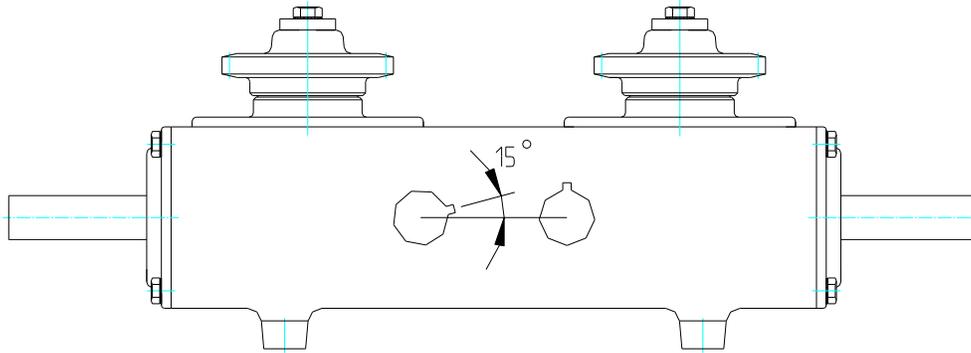
The basic setting of the plastic sprocket's tension spring length is 150 mm (6 in). The elongation of the chain will increase this value. It should be reset after 180-200 hours of operation if working in severe conditions. Before adjustment, the offset link should be removed from the gathering chain. Failure to do so will result in a loose chain.

When harvesting laid or lodged corn stalks with a loose chain, the feeding finger of the chain can jump over the stalks and result in plugging of the snapping unit.



#### 4.5. Adjustment of the keyway position on snapping unit drive – Backlash

The angles do not need to be measured because incorrect tooth setting leads to coarse deviation. Visual inspection is satisfactory. Backlash dimensions are average relative to the elementary tooth and can be checked by tilting the shafts 1°. Adjustment can be varied by means of seals.



## **5. PTO Shafts (Universal drive shafts)**

Corn heads are provided with "Bondioli and Pavesi" PTO shafts. The PTO shafts are fitted with friction safety clutch, which must be set at the beginning of each season. The reason for this is that the friction safety clutch can seize after prolonged period of inoperation, and therefore may not provide torque limiting.

At the beginning of each season, remove the PTO shaft and loosen the springs after measurement of the original factory set spring length. Check to ensure free sliding and rotational action of the friction discs, then reset the tension of the springs to the original, pre-measured value. If the clutch slips during normal harvesting, then increasing the tension of the springs can increase the torque value. If a torquemeter is available, the above operation can be completed more easily and more exact.

**Adjust the spring tension to result in a torque value of the friction safety clutch of 920 NM**



**6. Adjustment of the snout (Steel and Plastic Snouts)**

See the photo below (steel snouts shown).

The corn head should be positioned with the combine feeder house such that the distance between the skid shoe of the snapping unit and the ground is 8 cm (3 ¼ ") with sliding skid shoe of the snout just touching the ground.



The snout position can be made using the threaded rod attached to the snout.



The height of snout's skid plate (steel snouts only) can be changed if conditions justify.



7. Plastic Snouts



Shipping Position



Service position



Adjustment for changing snout position



Skid plate is not adjustable.

**Manufacturer and Distributor are not responsible for incorrect setting of snout position.**

## **HARVESTING**

The corn head is ready for harvesting after completing the preceding instructions in this manual, which refer to Mounting, Run-in, and Set-up and Adjustment Procedure.

- Always be aware of the presence of the stalk chopper when putting the corn head into harvesting operation.
- The corn head should be used only when in functional condition and operating position.



Specified daily maintenance, correct settings and safe operation are required to ensure that the stalk shredder knives can operate properly and safely. Always consider possible circumstances where the knife can impact foreign material, stone or other objects laying on the ground. Any such impact can result in a piece separating from the hardened knife blade.

**ALWAYS STAY CLEAR** of the corn head while in operation. Bystanders should always be more than 30 m (100 ft) from the corn head while it is in operation.

- If the crop is severely lodged or laid, remove the ear savers and/or rubber flaps from the divider shields.



Steel divider shown in photo

Remove this complete assembly, or remove only the rubber ear savers.

- After 1 hour of initial operation, stop the machine, remove the combine engine key, and check the following:
  - Temperature of the drive gearboxes,
  - Loose hardware,
  - The tightness of the chain
  - General visual inspection

If this inspection reveals any abnormal result, look for the cause of the abnormality or contact your dealer.

#### HSA -front stalk shredder (chopper)

This specially constructed unit is directly driven from the shaft of the snapping unit's drive, as an entirely closed unit. This design enables the high-speed shredder knives to evenly chop corn stalks, while they are being directly fed by the snapping roll.

#### Tall Crop Dividers

When harvesting tall corn stalks, and there is a tendency for ear loss over the side of the outer dividers, a Tall Crop Divider Kit is available as accessory (for steel end dividers only).

Since this divider increases the leading angle of the outer divider, there could be a resistance to smooth flow of crops in severely lodged or laid crop. If this condition is encountered, remove the Tall Crop Dividers.

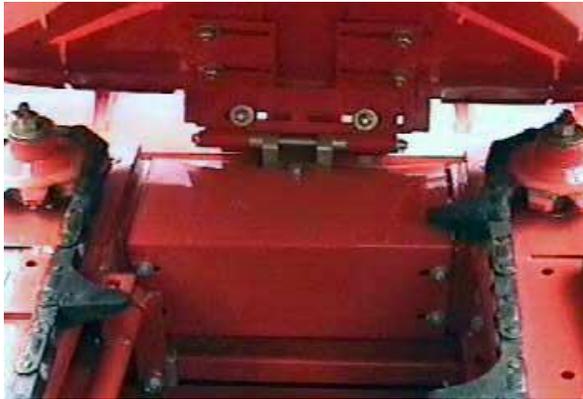
When assembling the Tall Crop Dividers onto a folding corn head, a catch plate of the outer frame must be changed because the divider touches the pulley when it is in closed position.

## **ROW SPACING ADJUSTMENT**

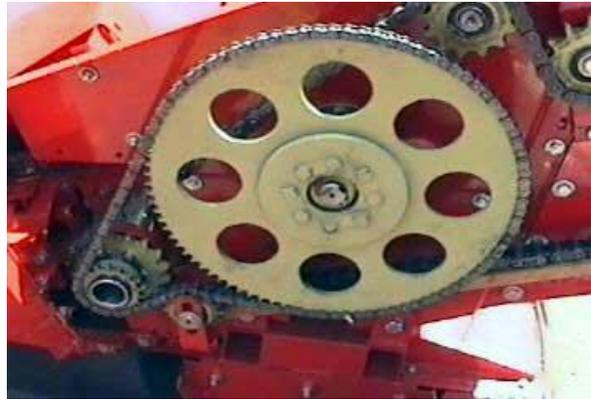
Matching of the corn head row-spacing to the corn rows is necessary for optimum performance, and of especially greater importance with wider corn heads.

Improper matching can result in pre-mature wearing of the snapping roll nose supports, and the leading edges of the snapping plates.

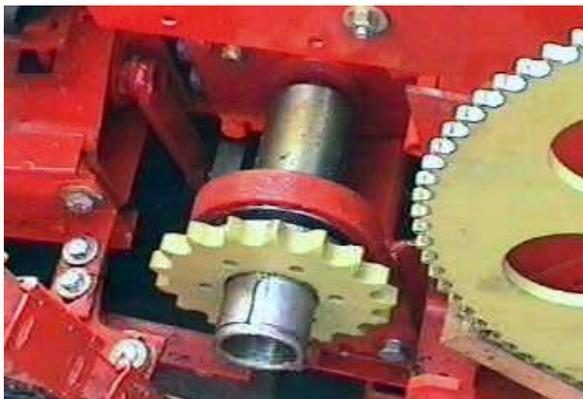
The spacing of the snapping units can be adjusted as follows:



1. Remove the shields from the machine by disassembling the hinge rod



2. Remove side drive chain (It is located between the main frame outer bracket on the folding corn head)



3. Remove driving hub



4. Remove shield plate (omitted if the corn head was originally assembled for row distance of 80 cm (32 “))



5. Remove shields of drive unit connections and loosen chain coupling screws on drive unit connection



6. Loosen screws on snapping unit connection



7. Loosen screws on the clamp of the adjusting tube



9. Loosen flat straps fastening snapping unit

When the above mentioned is completed the snapping units can be moved sideways to the correct position. After the adjustment of the row spacing, replace the elements in reverse order.

Observe the requirement written in chapter 4.2 for the setting the central snapping plate adjuster.

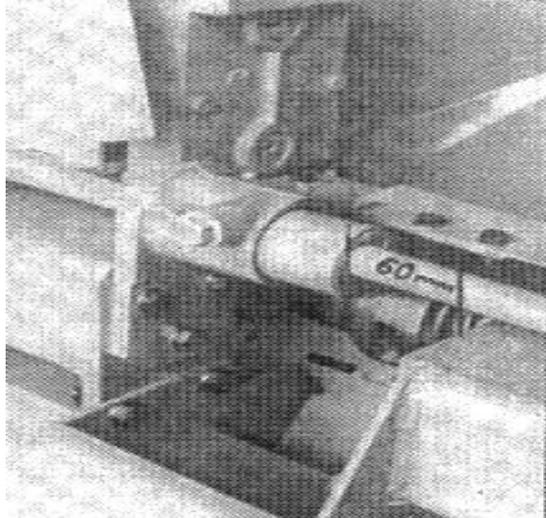


**Folding corn head:**

When disassembling the rod on the folding frame and removing the fastening element 1.308.195 the spring will force the rod 1.308.198 out of position. Take care to ensure it is suitably supported.

When assembling the central rods, they must extend past the central frame element side opening by 60-60 mm (2 3/8-2 3/8")

This value refers to 21-26 snapping plate adjustment.



The final procedure is to change the shield spacing. Loosen all screws, replace the shields and tighten the screws.

If your corn head has a fixed shield, you must order a new shield in order to adjust the row spacing. 2 experienced people can complete the spacing adjustment in approximately 3 hours

**MOUNTING TO ANOTHER TYPE OF COMBINE**

The mounting kits for the combines can be found in the spare parts list. If you wish to mount to another type of combine, order the relevant mounting kit.



When assembling to another type of combine, be sure to assemble all of the protective shields. The shields are provided in the mounting kits.



For safe operation after assembly of the mounting kit, the individual shield supplied in the kit must be assembled to the bracket.  
Ensure that the lower attachments and drive shaft connection are securely in place.

## **MAINTENANCE AND LUBRICATION**

### **1. Frame**

The frame of the fixed machines does not require any special maintenance.

The folding mechanism of the folding corn head should be greased every 50 operating hours.

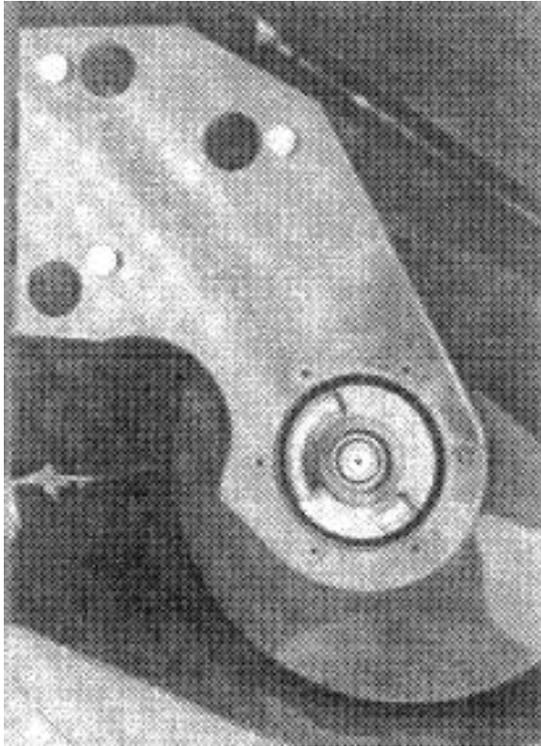


### **2. Gathering auger**

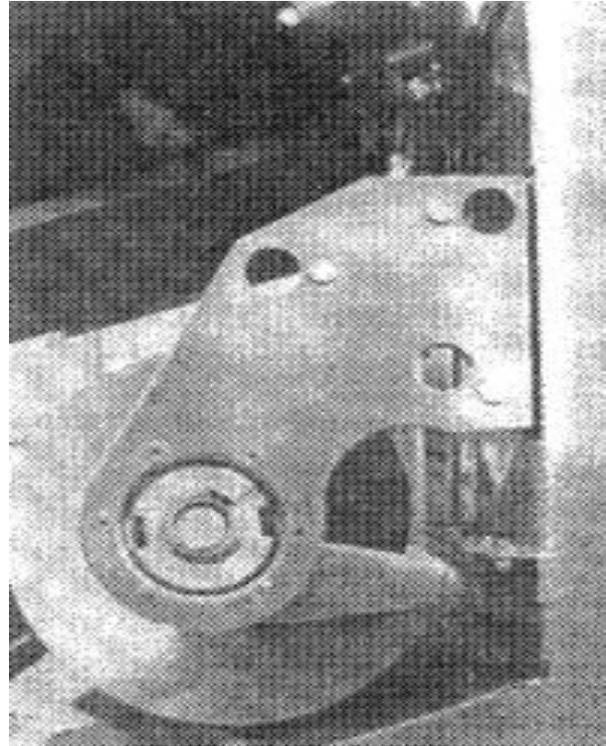
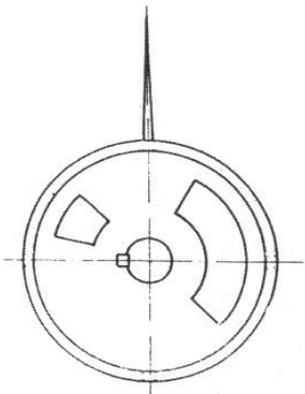
The driving chain of the gathering auger should be greased daily, and the chain tension should be checked frequently

The drive jaw of the 4+2 folding corn head should be greased daily.

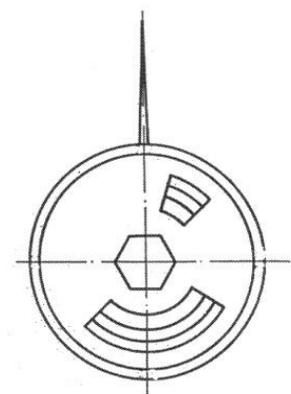
Before folding into field operation, ensure that the position of the drive jaw is as shown in the figure, relative to the end of the pulley.



The central frame  
jaw

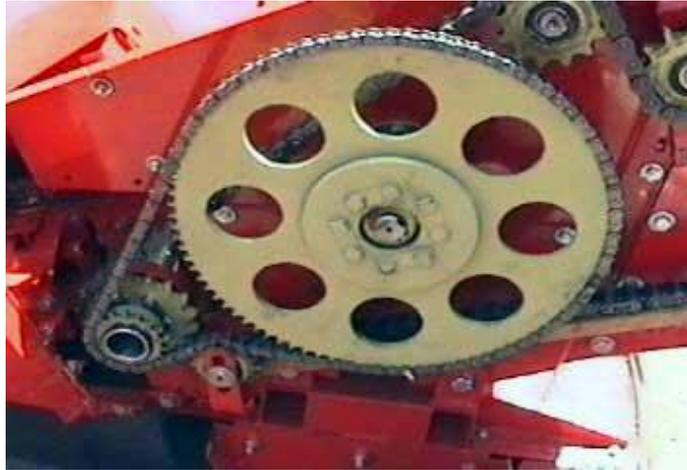


the outer frame  
jaw



### 3. Drive Chain

The chain should be greased daily, and chain tension checked frequently.



### 4. Drive connecting elements

#### 4.1. PTO shafts:

- should be greased daily. This includes the lower PTO shaft of the 4+2 folding corn head.

#### 4.2. Chain coupler connecting the feeder house shaft (Deere without 21T Spline)

- should be greased daily.

#### 4.3. Claw clutch joining snapping unit gear drives on the 4+2 folding corn head

- The surface of the clutch should be greased daily.

## 5. Snapping unit

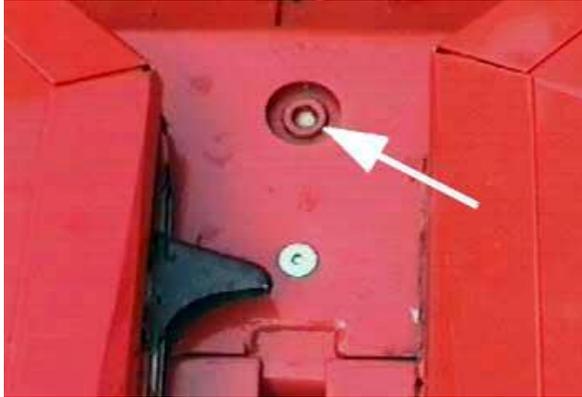
### 5.1. Drive unit

Oil change frequency: Every 300 hours, or once a season

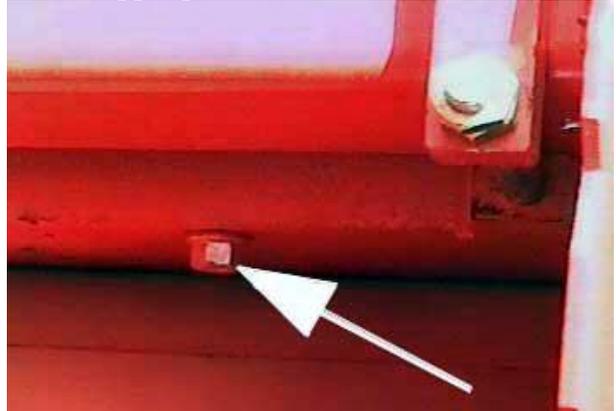
Oil Quantity and Specification: 1 litre of SAE 90

Oil level check frequency: every 100 hours

- Remove the filling bolt with a wrench and measure the depth of oil. The depth should be 2 cm (3/4 inches) from bottom of the gearbox, with corn head as near horizontal as possible (viewed relative to stripper plates).



Snapping unit gearbox  
oil filling and oil level check screw



Oil drain screw of the snapping  
unit gear box

### 5.2. Snapping roll

5.2.1 The needle bearing of the snapping roll should be greased daily

Apply grease until it appears at the labyrinth seal. This will ensure flushing out the old grease and fully replacing with new grease.



The location of the grease fitting of the snapping roll snout

5.2.2. The rear bolt retaining the flute to the stalk roll is a special type. It is must never be replaced with any bolt other than specified in the Parts Manual. Check visually the hex head of the bolts. If the heads are worn replace them before they become totally worn out, to prevent other problems

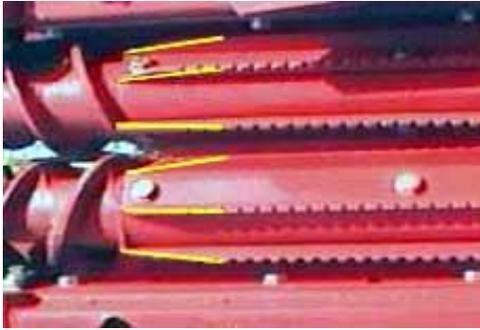
- The bolts should be checked every 50 hours.



1. The special hex bolt of the snapping roll rib

The size of the hex bolt: M 10 x 25  
Quality: 8,8, rust protected  
The torque: 48 Nm  
The special bolt should be ordered according to the spare Parts Manual

The following wear may be obvious on the snapping roll ribs after 350-700 acres of harvesting



The degree and quickness of the wear will depend on the type of corn and soil types. This wear will not influence the function of the corn head.

### 5.3. Gathering chain

- It should be greased daily using synthetic or vegetable grease or oil. The tension should be checked according to section “Set-up and Adjustment procedure”, paragraph 4.4.

## 6. HSA stalk shredder

### 6.1. Gearbox

Oil change: Every 300 hours, at least every year

Filling quantity: 0,65 litre

Quality: SAE 90

Oil level check: every 50 hours

Visually check gearboxes daily for signs of external leaks. If leaks are apparent, check level daily.



1. Oil filling
2. Level checking
3. Oil drain

6.2. Knives and their mounting:



6.2.1. The condition of the knives should be checked daily.

Never work with damaged knives!

6.2.2. The radial clearance between knife and bushing should not exceed 1 mm (.04”).

If clearance exceeds 1 mm (.04”), change both knife and bushing.

6.2.3. Knives must be changed only in pairs because of their high rotational speed and balance requirements.

6.2. Never operate the chopper without the specified locking pin at bottom end of knife support shaft.

6.2.5. Tightness of the knife support bolts should be checked daily.

**7. The lower gearbox of the folding corn head**

- Oil change: minimum of every 300 hours, or yearly
- Oil quantity: 0,4 litre
- Specification SAE 90
- Oil level checking frequency: every 50 hours

With corn head in horizontal position - the upper hex bolt is the level indicator and filling port, and the lower plug is the drain.

**The Manufacturer or Distributor does not take any responsibility for wear or failure resulting from improper maintenance or lubrication.**

## **TROUBLE SHOOTING**

1. A large quantity of ears is between the gathering auger and feeder house.  
This can result from improper setting of the combine for corn harvesting operation, including improper concave spacing or improper angle of the feeder house front face. Ensure that the combine is set for corn harvesting in accordance with the instructions and settings as recommended in the combine Operator Manual.
2. In laid or lodged corn stalks, the stalks do not feed properly into the snapping unit.  
Remove the rubber ear savers and/or the complete ear saver (steel snouts/dividers). See section on Harvesting.
3. Snapping unit becomes plugged while harvesting laid or lodged cornstalks.  
Check the tension of the gathering chain.  
See section “Set-up and Adjustment Procedure”, paragraph 4.4.
4. Stalks, grass or weeds wrap on the snapping roll.  
Set gap of vine knives.  
See section “Set-up and Adjustment procedure” paragraph 4.3.
5. Gathering auger does not rotate.  
Check setting of the auger drive safety clutch.  
See section” Set-up and Adjustment procedure” paragraph 2.
6. Ears are broken or split in the gathering auger  
Reduce the rotational speed of the auger, using the replaceable sprocket provided.  
See section “Set-up and Adjustment Procedure”, paragraph 2.
7. Difficulty in keeping the corn head properly on the row.  
Check that corn head row spacing matches the corn row spacing.

### **OFF-SEASON STORAGE OF YOUR CORN HEAD**

When the harvesting is finished, thoroughly clean the machine and remove all remaining stalks. Carefully inspect the machine to ensure it will be in proper operating condition for the next season. Repaint any paint-damaged area to prevent rusting. If this is not possible, coat the unpainted area with rust protector. If possible, store the corn head in a covered place. If this is not possible, remove the gathering chains, grease them and store in a dry, covered area.

### **WARRANTY, SERVICE, SPARE PARTS ORDER**

Contact your dealer or distributor about issues concerning warranty, or service.

**The Manufacturer and Distributor take no responsibility for failures, wear, or poor performance resulting from improper maintenance, settings, storage or incorrect usage of the Corn Head.**

The warranty does not apply to wear items.

When ordering spare parts, always identify your corn head by type and serial number, and part number of the part required as shown in the Parts Manual.

LUBRICATION CHART

LUBRICATION CHART

