

# **C Series Corn Header**

**Operator's Manual**

215608 Revision A

Original Instruction



## INTRODUCTION

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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.

This manual gives some information regarding the C-series corn heads.

**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 can be mounted to many models of combines,** 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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1. **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 decals are located near specific hazards. General precautions are listed on CAUTION safety decals. 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 decals. Keep safety decals in good condition. Replace missing or damaged safety decals. Be sure new components and repair parts include current safety decals.**

### GENERAL SAFETY GUIDELINES

1. **ALLOW ONLY TRAINED AND EXPERIENCED OPERATORS TO OPERATE THIS 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 service, adjustment, maintenance and lubrication of the corn head.
3. **STAY CLEAR** of the header when it is in operation.
4. **DO NOT OPEN** safety shields or covers while the corn head is running.
5. **ENGAGE** the lock on the feeder lift cylinder before doing any work under or around the corn head.
6. **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.
7. **NEVER** remove the warning labels from the machine. If they become damaged or illegible order replacement parts as shown in the Figures.
8. **NEVER** remove the safety hydraulic valve of the folding corn heads, located on the back of the corn head.
9. **NEVER** close or open the folding corn head when it is in operation.

## 1. **SAFETY DECALS**

### 1.1 **Recognize safety information**

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

**WARNING!**

This is the safety – alert symbol.



When you see this symbol on your machine or in this manual, be alert to the potential for personal injury. Carefully read all safety messages in this manual and on your machine safety signs, and respect them fully to avoid accidents leading to serious injury or death!

**WARNING!**

Keep safety signs in good condition. Replace missing or damaged safety signs. Replacement safety signs are available from the manufacturer. It is **PROHIBITED** to remove safety signs from your machine!



**WARNING!**

Before installing the machine read the operator's manual carefully, learn how to operate, control and keep your machine in good condition. Do not let anyone operate it without instruction.



1.326.700

Keep your machine in proper working condition. Unauthorized and non-professional modifications to the machine may impair the function and safety and affect the machine life.



## 1.2 Safety label meanings

The function of the labels is to give, easy to understand safety instructions for those who are staying close to the machine, in order to minimize the risk of accidents. It is therefore important that these labels always be easy to read, and in complete condition.

- a. Before beginning any maintenance or lubricating, stop the engine of the combine and remove the key!



1.326.703

- b. If you stop the combine while the header is lifted, secure the loose working cylinder with the help of the device - dive inhibitor - fixed to the hydraulic working cylinder of the combine to avoid the accidental crash of the header.



1.326.701

- c. Always stay clear of moving elements during operation! Always disengage header drive, shut off the engine and remove key before servicing or unclogging header.



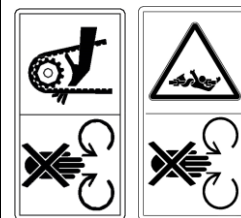
1.315.438

- d. Always keep your distance from the rotating parts of the machine. The header's snapping rolls and other moving parts can't be covered completely due to their functions. Do not feed crop material into machine by hand or attempt to manually unplug machine while it is running. The stalk rolls can feed the crop material in faster than you can release your grip on it. To avoid personal injury or mortal accident always stop engine before unclogging.



1.326.702

- e. Never attempt to open or remove shield while the engine is running. Keep every shield in its place. Avoid direct contact of your hand, leg, any part of your body or cloth with rotating, moving machine parts, elements! Before approaching any moving parts wait for them to completely stop!



1.326.705 1.379.142

- f. Avoid bruise!

The loose and non-fixed header can unexpectedly crash down, so stay away from loose and non-fixed machine!



1.315.439

- g. If the engine is still operating, the combine can accidentally start. Never step between the header and the combine if the engine is not shut off!



1.379.143

- h. Machines equipped with chopper are more dangerous because of objects thrown out unexpectedly. Do not stay close to operating machine. Follow the instructions on use and maintenance of chopper knives!



1.315.440

- i. When we are talking about foldable machines there's a possibility that the wing frames can suddenly fold. Do not stay under and around the wing frames!



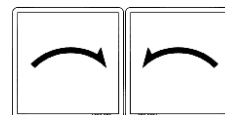
1.326.707

- j. On some types of corn heads you can find high-pressure hydraulic system. In case of a pressurized system, the piping system must not be disturbed or exposed to any external effects of the damage.



1.332.254

- k. The drive shaft rotation.



1.332.252-3

- l. To prevent injury from sharp cutting blades: Do NOT operate without shields in place. Disengage power take-off, stop engine and remove key before opening covers. Stop engine and remove key before opening shield. Blades may continue to rotate after power is shut off. Listen and look for evidence of rotation before opening shield.



1.372.836

- m. To prevent injury from entanglement with rotating auger: Stand clear of auger while machine is running.



1.372.837

- n. Before putting the machine into operation, please remove the screws which fasten the main frame and side frames on both sides at delivery.



1.372.916

- o. Lifting points on the lifting bar.



514.038.0

## SAFETY

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p. Tie-down point locations.



1.372.890

q. Chopper knife covers are marked with safety decals. Do NOT operate without covers in place.



1.373.044

r. Operating the machine with feeder lateral tilt feature enabled may result in damage!

### **WARNING**

Do not operate feeder lateral tilt feature with this Cornhead  
Damage may result!

1.379.138

1.379.138

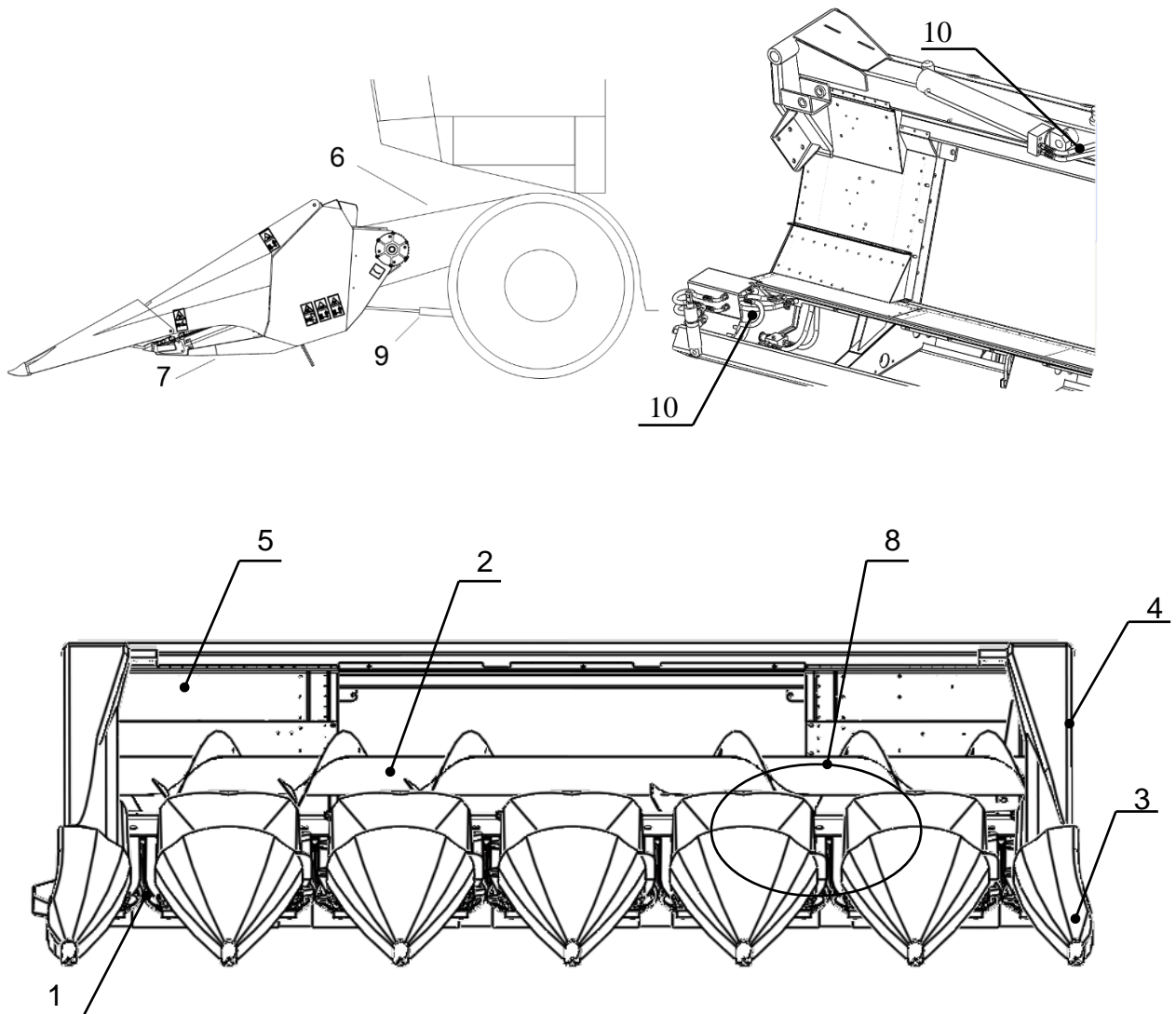
s. QR code label leading to the C-series page.



1.372.822

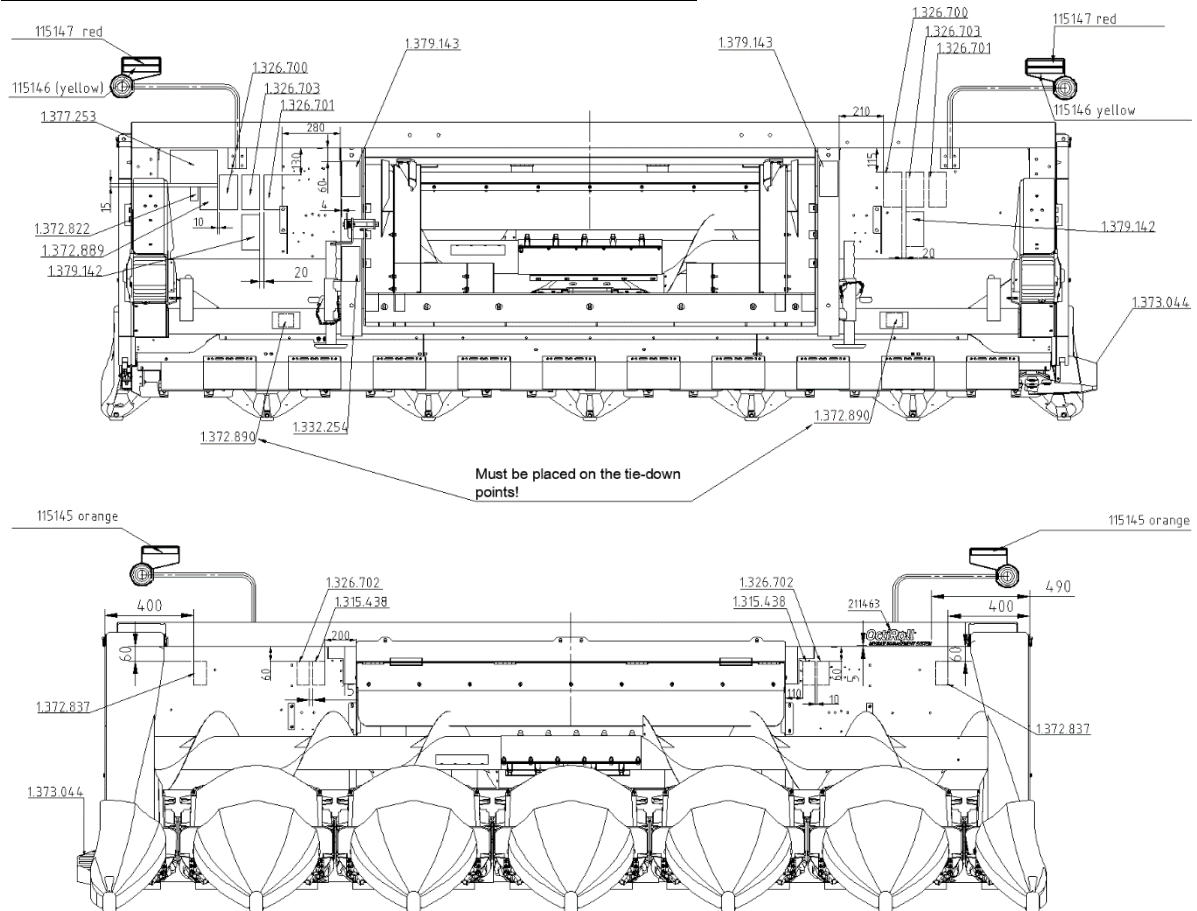
**LIST OF ACTIVE MACHINE PARTS**

No.	Active machine part	Danger
1.	Snapping units, gathering chains	Snatch, entanglement
2.	Gathering auger	Cutting, entanglement
3.	Outside shields	Nip, bruise
4.	Side chain drive	Snatch, entanglement
5.	Drive shafts	Entanglement
6.	Inner space between combine and corn head	Crushing
7.	Stalk chopper	Cutting, impact from unexpected flying objects
8.	Shields, snouts	Slipping , stumbling
9.	Lifted machine	Crushing
10.	Hydraulics	High-pressure fluid injection



## SAFETY

### Illustration below shows placement of safety decals

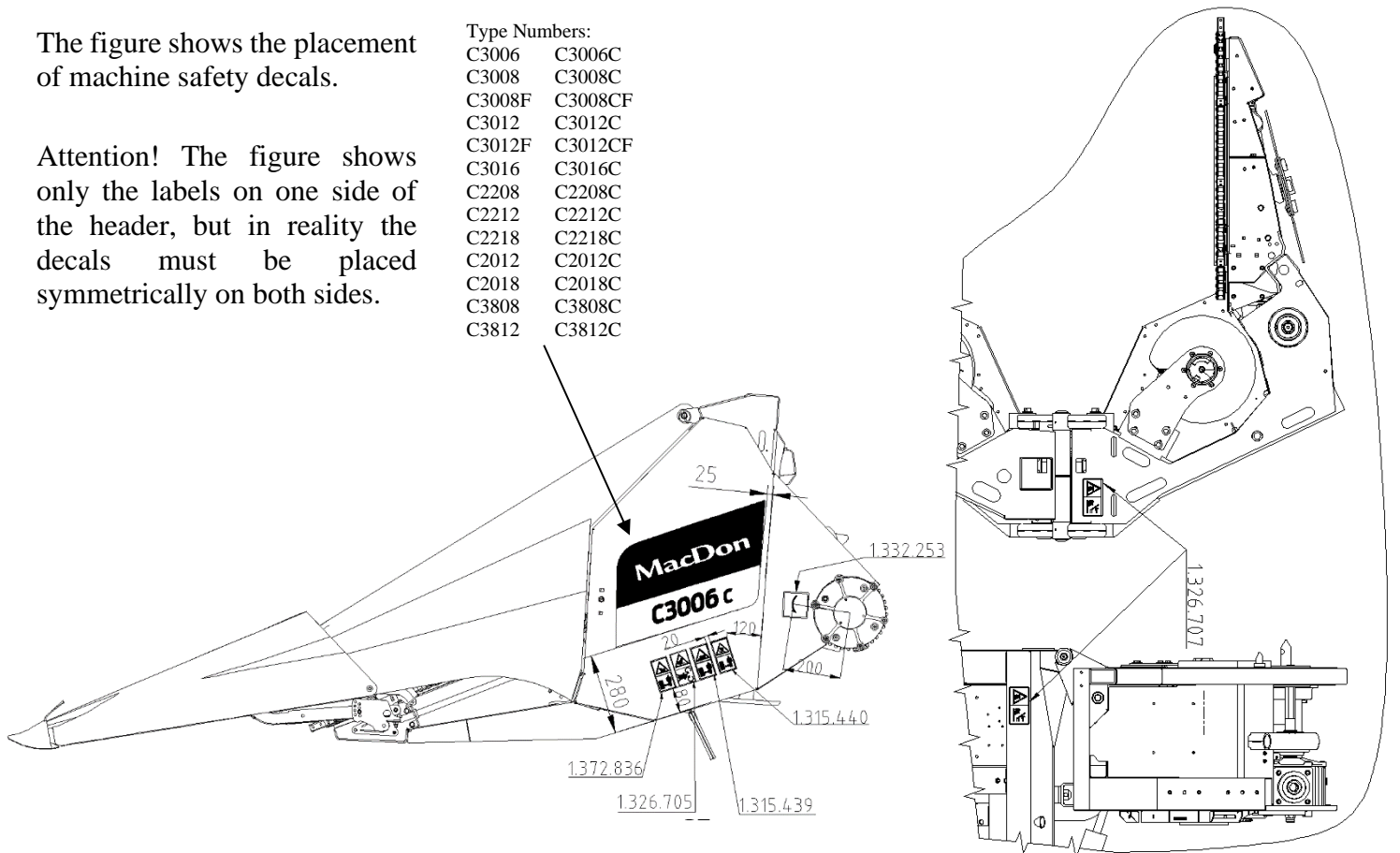


The figure shows the placement of machine safety decals.

Attention! The figure shows only the labels on one side of the header, but in reality the decals must be placed symmetrically on both sides.

#### Type Numbers:

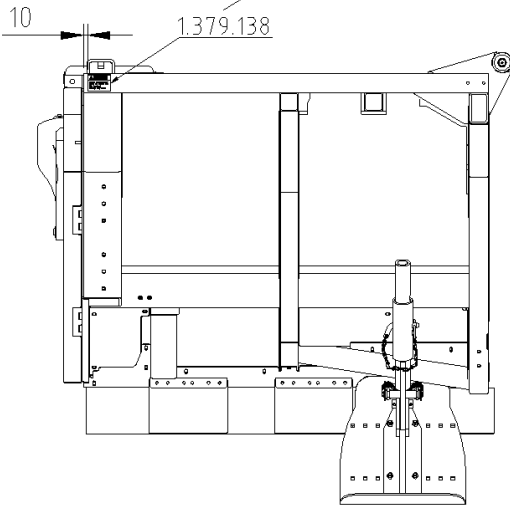
C3006	C3006C
C3008	C3008C
C3008F	C3008CF
C3012	C3012C
C3012F	C3012CF
C3016	C3016C
C2208	C2208C
C2212	C2212C
C2218	C2218C
C2012	C2012C
C2018	C2018C
C3808	C3808C
C3812	C3812C



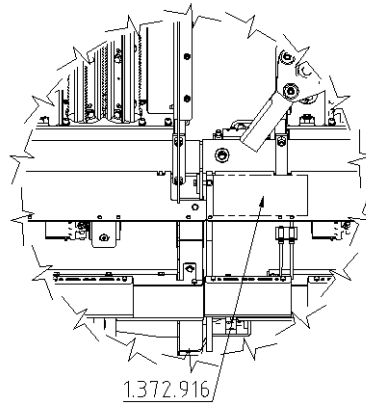
## SAFETY

C3006F, C3006CF, C3008F, C3008CF

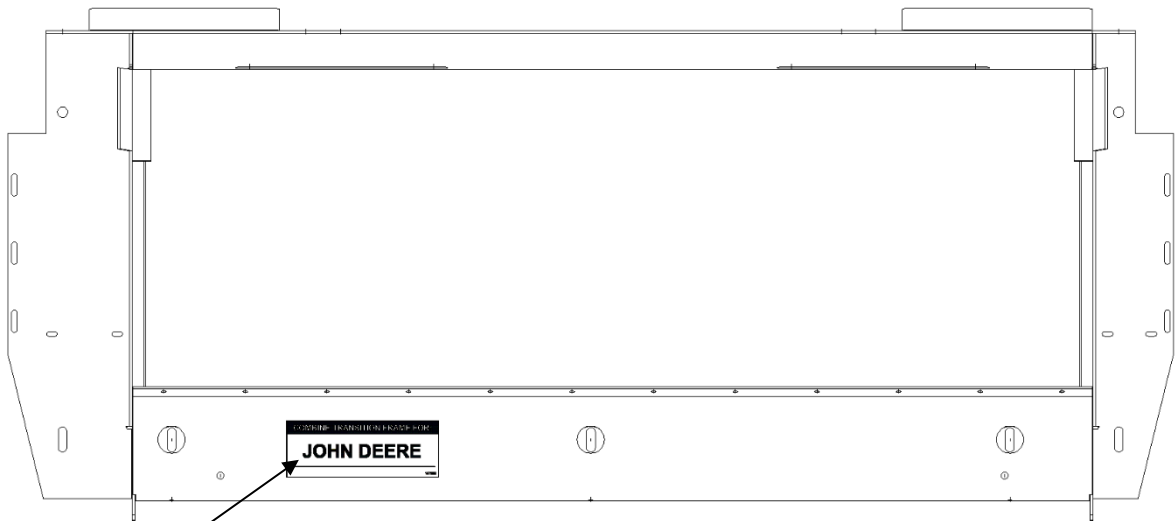
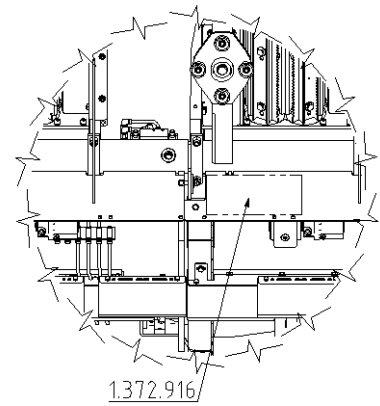
Additional decals for the Foldable header!



The view shows the header LH side!



The big arrow should point to the screw fixing the wing.



Window frame decals:  
AGCO  
CLAAS/LEXION  
JOHN DEERE  
CASE IH  
CNH  
GLENER RS  
AGCO, IDEAL

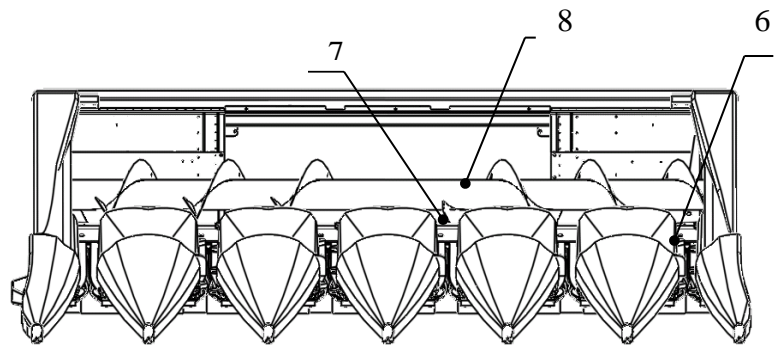
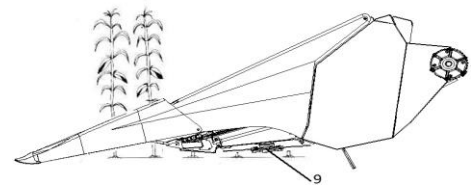
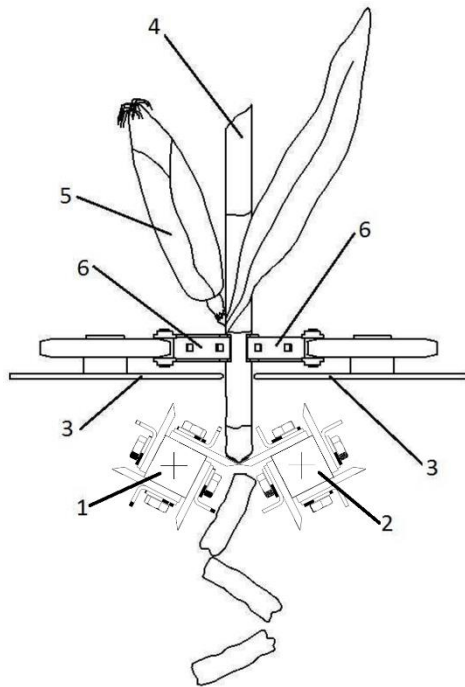


514.038.0 decal on the lifting bar!

## 2. OPERATION AND FUNCTION

The MacDon corn head can be mounted on most combines. Corn ears are detached from the corn stalks as is shown on the illustration below. The corn stalk enters the area between the snapping rolls (1,2) which counter-rotate relative to each other, and are pulled downwards between the snapping plates (3) by the rolls (1,2). This downward directing action causes the corn ears (5) to impact the snapping plates (3), detaching the ear from the stalk in the process. The detached ears are moved rearward by the gathering chains (6) into the auger trough (7) and are conveyed to the combine feeder house by the cross auger (8). Corn stalks are discharged downward by the snapping rolls (1,2).

If the corn head is equipped with optional stalk chopper, the stalks are chopped into small fragments by this chopper, located under the snapping rolls.



**Attention!**

**For safe corn head operation, it is essential to respect the instructions on the use of the corn head when mounted to the combine. Only qualified operators should operate the machine.**



### Operation

The corn head is driven from the combine feeder shaft through a universal drive shaft or chain shaft coupling. Power is transmitted from the drive shaft by gears encased in an oil bath to a shaft which passes through the snapping unit.

Torque limiting clutches transmit power from the shaft to each snapping unit.

The auger is chain driven through a torque limiting clutch from the left side snapping unit drive (or from both sides of large corn heads).

Consider and follow each of the following sequence guidelines before starting operation of the corn head:

- after a sounding horn start the engine of the combine
- after ensuring that no one is close to the corn head and combine, lower the corn head into operation position using the combine “lower” function switch



1. Operate the corn head only in the specified harvesting position
2. Engage the combine feeder drive and begin harvesting.
3. Operate at a ground speed that does not exceed that suitable for the combine and corn head capacity and ground conditions.
4. Perform an emergency stop

During harvesting be aware of unexpected events that may take place requiring immediate shutdown of the forward movement or combine feeder drive.

Such events could be:

- accident
- foreign materials in the crop (irrigation pipe, gas tube, rocks etc.) which could enter the corn head
- excessive crop loading (action of torque limiting clutches)
- clogging or blockage
- other breakdown or fault

**The corn head has no specific emergency stop system. The emergency stop is actuated using the combine systems located in the combine cab. Understand and respect the relevant instructions of the combine emergency stop procedures as related to the corn head.**

**Never leave the combine cab while corn head is in operation.**

**Non-conforming use:**

**The corn head is designed only for harvesting in the direction of planting (row dependant) and for the specified row widths. Harvesting performance can greatly deteriorate if the corn head is used in other conditions for which it is not intended. Deterioration in performance can result if:**

- The corn head is positioned too high or too low during harvesting
- The corn head is used to harvest crops other than corn.

### 3. IDENTIFICATION AND SPECIFICATIONS

#### 3.1. Identification

The universal mounting of the corn head permits it to be attached to specific combine types with the appropriate mounting kit. A mounting kit is assembled to the corn head at the factory as ordered.

A data plate is located on the left side of the corn head upper beam.



The model number refers to the following: for example:

- C3012            12-row fixed frame with 30" row spacing
- C3012C        12-row fixed frame with 30" row spacing and stalk chopper
- C3012CF       12-row folding frame with 30" row spacing and stalk chopper

## IDENTIFICATION AND SPECIFICATIONS

### 3.2. Specifications

#### 3.2.1. Dimensions

Row Spec	Model	Chopper	Weight		Width		Length (mm)	Length in shipping condition (mm)	Height (mm)	Height in shipping condition (mm)
			Kg	Lbs	mm	ft.				
6R30	C3006	No	2073	4570	4609	15,10	2970	1100	1410	2430
	C3006C	Yes	2180	4800	4609	15,10	2970	1100	1410	2430
8R22	C2208	No	2140	4720	4744	15,56	2970	1100	1449	2430
	C2208C	Yes	2260	4982	4810	15,78	2970	1100	1449	2430
8R30	C3008	No	2968	6543	6135	20,10	2970	1100	1449	2430
	C3008C	Yes	3110	6856	6135	20,10	2970	1100	1449	2430
8R38	C3808	No	2900	6390	7553	24,78	2970	1100	1449	2430
	C3808C	Yes	3080	6790	7553	24,78	2970	1100	1449	2430
12R20	C2012	No	2890	6370	6324	20,75	2970	1100	1449	2430
	C2012C	Yes	3050	6724	6390	20,96	2970	1100	1449	2430
12R22	C2212	No	3325	7330	6984	22,91	2970	1100	1449	2430
	C2212C	Yes	3630	8000	7050	23,13	2970	1100	1449	2430
12R30	C3012	No	3906	8611	9180	30,10	2970	1100	1449	2430
	C3012C	Yes	4120	9083	9180	30,10	2970	1100	1449	2430
12R38	C3812	No	4080	8995	11441	37,54	2970	1100	1449	2430
	C3812C	Yes	4290	9458	11507	37,75	2970	1100	1449	2430
16R30	C3016	No	5060	11155	12254	40,20	2970	1100	1449	2430
	C3016C	Yes	5330	11751	12320	40,42	2970	1100	1449	2430
18R20	C2018	No	4175	9204	9460	31,04	2970	1100	1449	2430
	C2018C	Yes	4480	9877	9526	31,25	2970	1100	1449	2430
18R22	C2218	No	4919	10845	10323	33,87	2970	1100	1449	2430
	C2218C	Yes	5225	11519	10389	34,08	2970	1100	1449	2430

Row Spec	Model	Chopper	Weight		Transport width		Width		Length (mm)	Length in shipping condition (mm)	Height (mm)	Height in shipping condition (mm)
			Kg	Lbs	mm	ft.	mm	ft.				
12R30	C3012F	No	4156	9162	4750	15,6	9180	30,1	2970	1100	1584	2430
	C3012CF	Yes	4370	9634	4750	15,6	9180	30,1	2970	1100	1584	2430
8R30	C3008F	No	3218	7094	3226	10,6	6135	20,1	2970	1100	1584	2430
	C3008CF	Yes	3360	7408	3226	10,6	6135	20,1	2970	1100	1584	2430

3.2.2. Gearbox Lubricant: EP-00 (liquid) grease, and SAE 80W-140 standard lubricating oil, SAE 85W-140 can be used as an alternative.

3.2.3. Pitch of the gathering auger: 560 mm (22").

3.2.4. Input shaft speed of the snapping unit drive: 550 rpm

## IDENTIFICATION AND SPECIFICATIONS

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Combine	Backshaft speed		Header Speed			
	Range	Rated	11 tooth	12 tooth	15 tooth	18 tooth
NH fixed drive	575	-	-	575	-	-
NH variable drive	402-575	550	-	402-575	-	-
AGCO fixed drive	617	-	673	-	-	-
AGCO variable drive	608-975	825	-	-	-	405-650
JD fixed drive	520	-	567	-	-	-
JD variable drive	520-785	688	-	-	416-628	-
Case-1000-2000 series	500	-	545	-	-	-
Case AFX fixed drive	602	-	-	602	-	-
Case AFX variable drive	460-690	596	-	460-690	-	-
Lexion fixed drive	761	-	-	-	609	-
Lexion variable drive	508-737	688	-	-	406-590	-

3.2.5. Length of chopped stalk: average 50 mm, depending on crop conditions.

3.2.6. Adjustment of the snapping plate: central in-cab control switch.

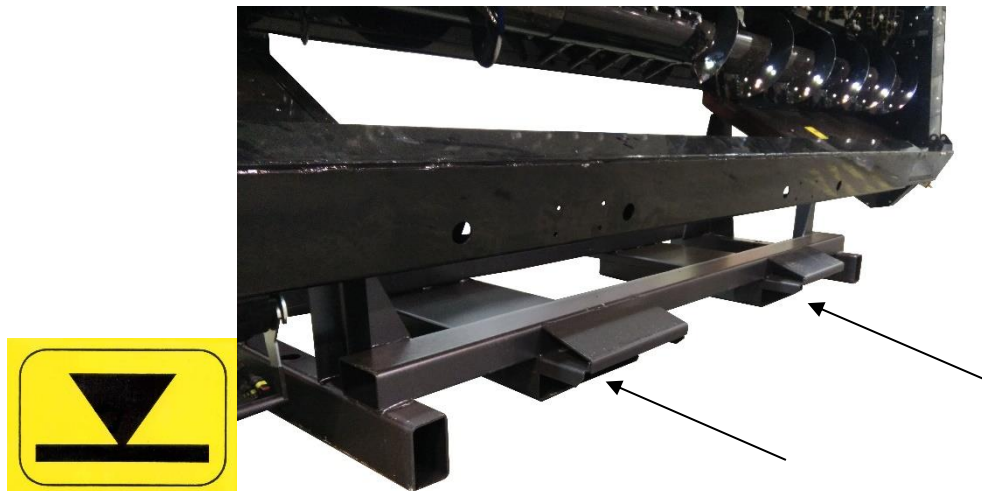
3.2.7. Available row spacing: 20" – 22" – 30" – 38" (50.8 cm – 56 cm – 76.2 cm – 96,5 cm) with addition of specified snouts and dividers.

### 4. SHIPPING CONDITIONS

The corn head is delivered mounted on a shipping skid suitable for handling by forklift. Lifting rings are also provided suitable for overhead lifting.



Ensure that the lifting equipment is adequate for the weight indicated on the serial data plate. The weights of the different headers can be found in section 3.2 as well. When using a forklift under the skid, ensure that the forks are spaced evenly about the centerline of the corn head and the forks are fully engaged into the header. Do not use the tips of the forks to lift or move header. Recommended position of the forks is indicated, as shown in the photo below.



**When using a crane, the lifting cable is to be attached to the lifting rings on the bar which is attached to the upper end of the snapping units. The lift points are indicated with a label on the bar.**

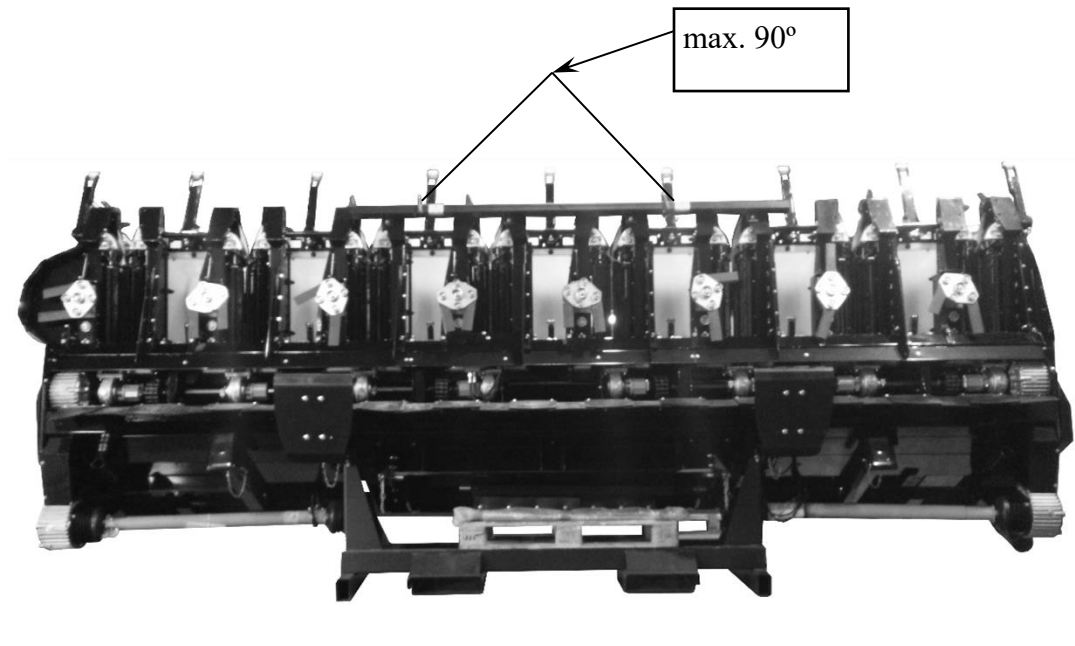
When lifting with a crane, the cables must be long enough such that the angle between them does not exceed 90°. The minimum cable length to meet this requirement is:

- the 12-row fixed and folding frame: 2500 mm (98")

The cable length should be equal on both sides.

## SHIPPING CONDITIONS

**NOTE: Only use a cable with specified capacity that meets the weight of the machine.**



When lifting a 12-row corn header use four cables as shown in the photo below.



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

While the corn head is mounted on shipping stand

- Remove the parking stands and snouts from the shipping position and install parking stands in their retracted position
- Carefully lower the corn head to horizontal position with a cable attached to lifting hooks
- Remove the shipping skid after the machine is resting securely in horizontal position

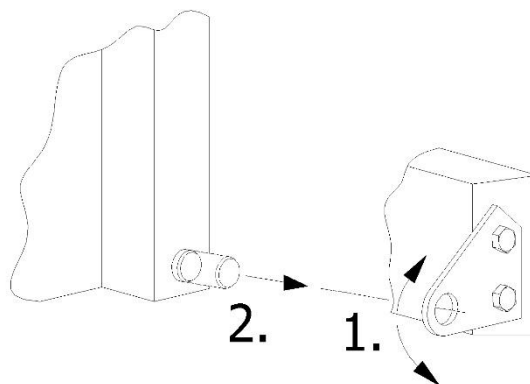
The corn head is shipped from the factory with mounting kit installed as ordered. If the corn head will be mounted to a different combine than ordered, remove the factory installed mounting kit and install the required mounting kit as recommended for your combine with all the specified drive line shielding.



**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. Engage the feeder lift cylinder safety stop and secure the lower latches.**

#### 5.1. Mounting the corn head on the combine

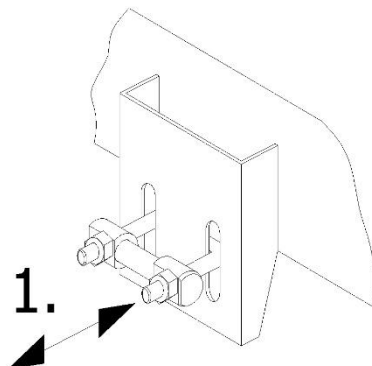
##### 5.1.1 John Deere 60, 70 and S series



Insert the spring pivot pin (2) of the feeder house into the hole of the retainer plate (1) which is assembled on the lower support. If required, adjust the pin alignment.

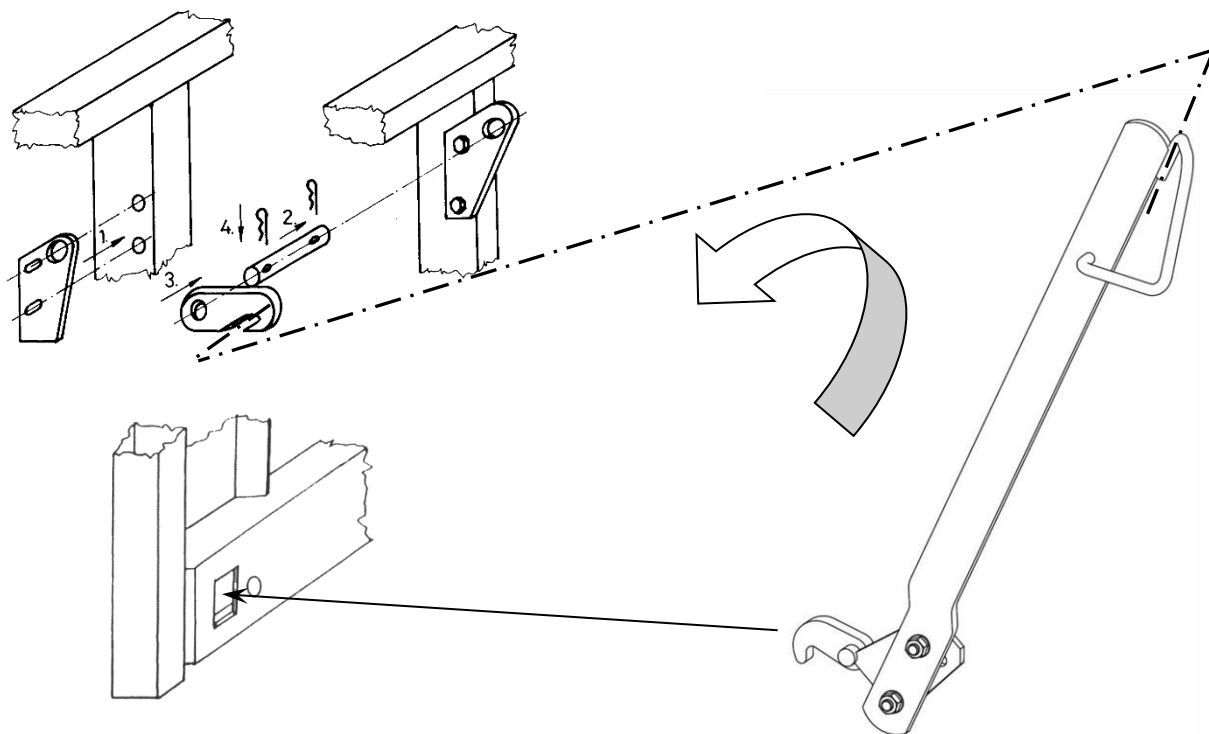


### 5.1.2. CASE IH 1000-2000



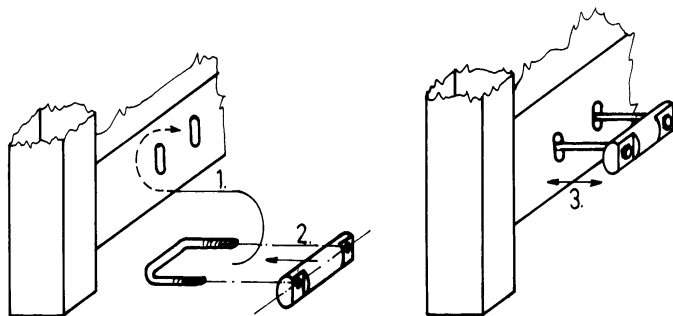
Adjust the nuts on the U-bolts (1) as required to provide adequate clamping force. Refer to the combine operator's manual for the correct adjustments and latching methods.

### 5.1.3. CIH Flagship & Legacy; NH CR & CX; similarly Challenger MF 9000 Series; Gleaner N, A, R, & S Series



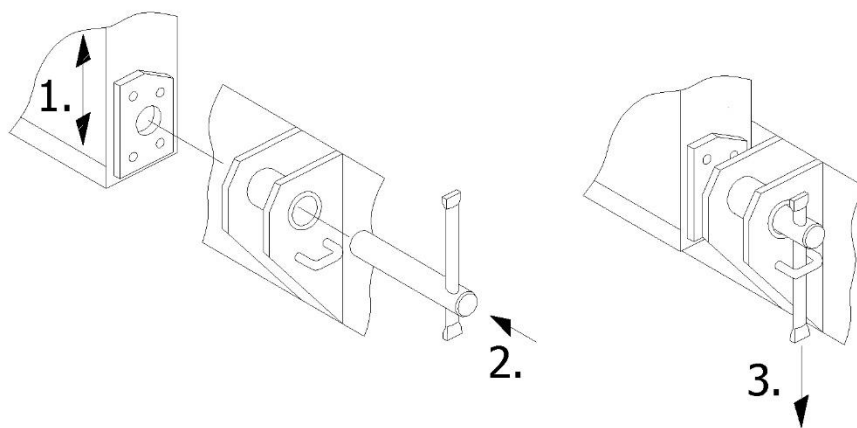
Adjust the position of the latch retainer (1) to ensure that the feeder lever is fully engaged. If the proper position is not attainable, change the original arm of the feeder with the arm supplied as an attachment.

### 5.1.4. MF 8500 Series



Adjust the nuts on the U-bolts (1&2) as required to provide adequate clamping force (3). Refer to the combine Operator's Manual for the correct adjustments and latching methods.

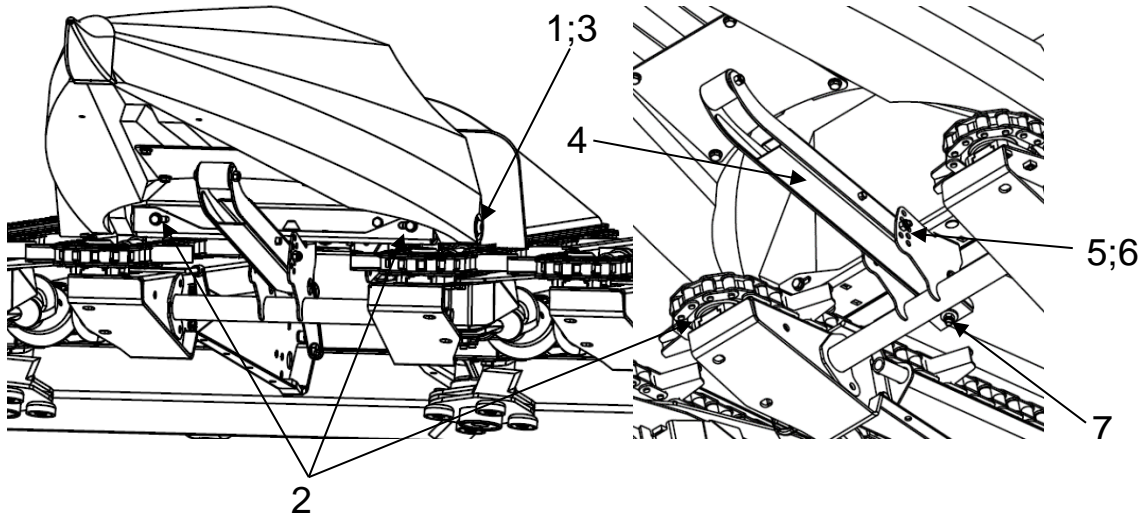
### 5.1.5. Claas Lexion 500, 600, 700, 7000, & 8000 series; similarly IDEAL 7, 8, & 9



## 5.2. Other steps following the securing of the adapter on the combine

### **Attach the Snouts**

Place the central snouts onto the rear divider pins (1). For easier mounting, first loosen the rear divider pin which is secured by a hex bolt (2), secure the central snouts from the outside with Torx-head bolts (3) and then tighten the loosened hex bolts. Refer to the parts manual.



Adjust the arm which is used for central snout support (4), to the desired height and then secure it with a hex bolt (5) and a lock nut (6). If finer adjustment is needed, this can be done with a nut in the back (7). The recommended settings can be found at chapter 7.7. The outer snouts are installed in a similar way. The outer LH and RH snout supports are unique and must be installed correctly to properly contact the underside of the snouts.

### **Remove the Lifting Bar**

Remove the lifting bar from the snapping unit **ONLY** after the corn head is properly attached and secured to the combine, and the combine feeder lift cylinder stop is engaged.

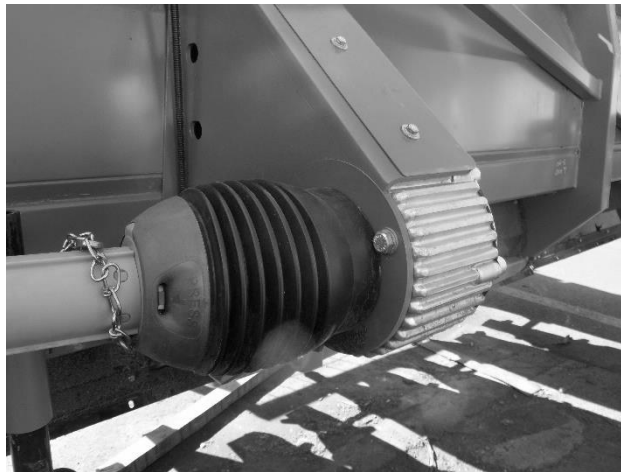


**For folding headers only:**

Remove shipping bolt and plate securing each wing to the central frame so header will be allowed to fold.

**Connect Header Drive Shafts**

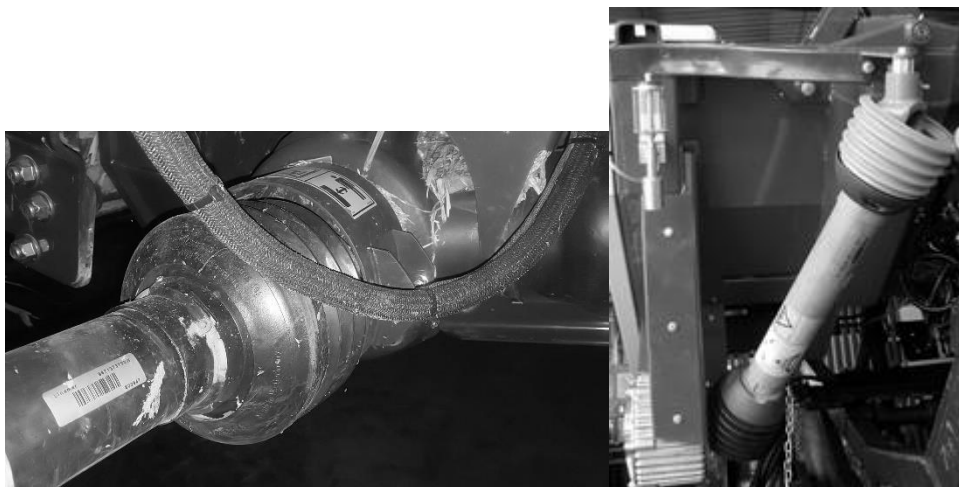
Connect the drive shafts and ensure that the protective shields are properly in place and that all rotating parts are adequately shielded. The shafts are installed at the factory with protective shielding as supplied by the shaft Manufacturer.



## MOUNTING TO THE COMBINE

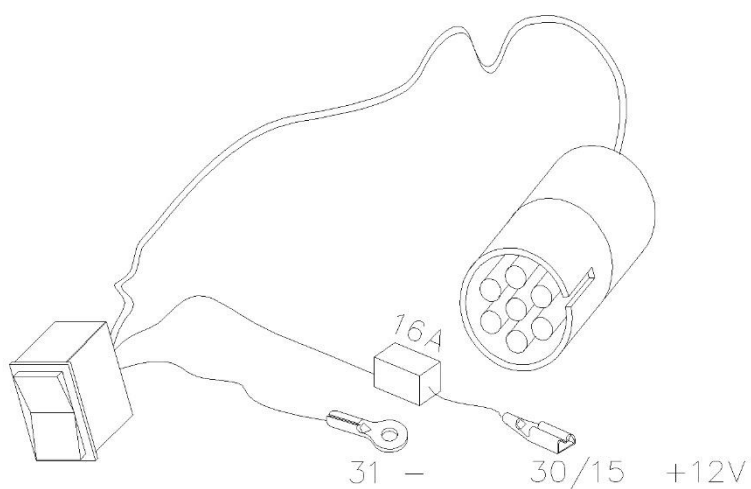


Position the protective shield of the drive shaft, according to the combine operator's manual, after connecting to the feeder drive shaft.



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

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



The plug is connected to pin numbers 1 and 7.

The schematic below illustrates the hydraulic system of the folding corn head.



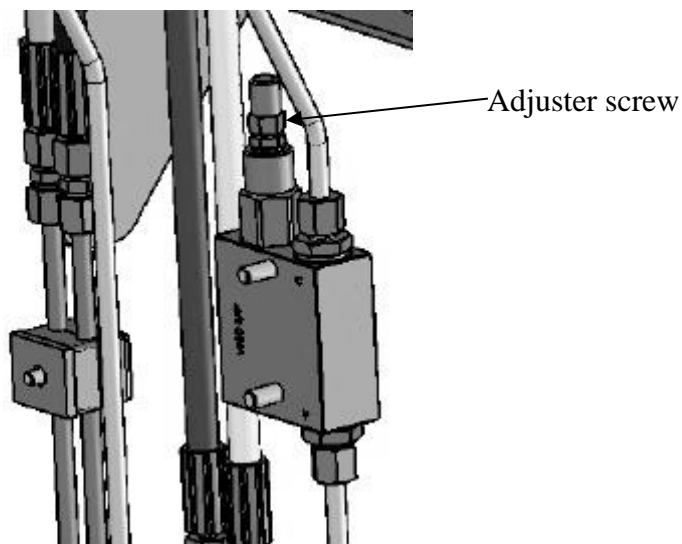
**The folding corn head hydraulic cylinders should operate in the following sequence:**

1. The locking cylinders (D1, D2) must retract fully.
2. The rear divider cylinders (B1, B2) must extend fully.
3. The wing cylinders then fold the wings.

If the wing cylinders start before the other cylinders (D1, D2, B1, B2) reach the end positions, then the pressure relief valve adjuster screw should be turned a half turn clockwise.

After this, re-attempt folding the header to check for proper operation.

Repeat these steps as necessary until the headers folds correctly.



**6. RUN-IN PROCEDURE**

A 30 minute “trial run” is suggested after the initial mounting.

Prior to the trial run, perform a full lubrication procedure as described in Section 11 "Maintenance and Lubrication". Gearboxes are filled with lubricant at the factory but levels should be checked before beginning the trial run.

Start the combine and momentarily engage the drive with the engine speed at low idle, If all sounds well, run the corn head slowly. Avoid starting the drive at high engine speed as the inertia load from acceleration can be 8-10 times more than the load from steady speed operation. High-speed start-up may cause damage to the drive system and safety clutches.

After the slow speed start, increase the engine speed to a medium level and listen for abnormal sounds. If no irregularity is observed, the engine speed can be increased to maximum level for about 10 minutes.

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

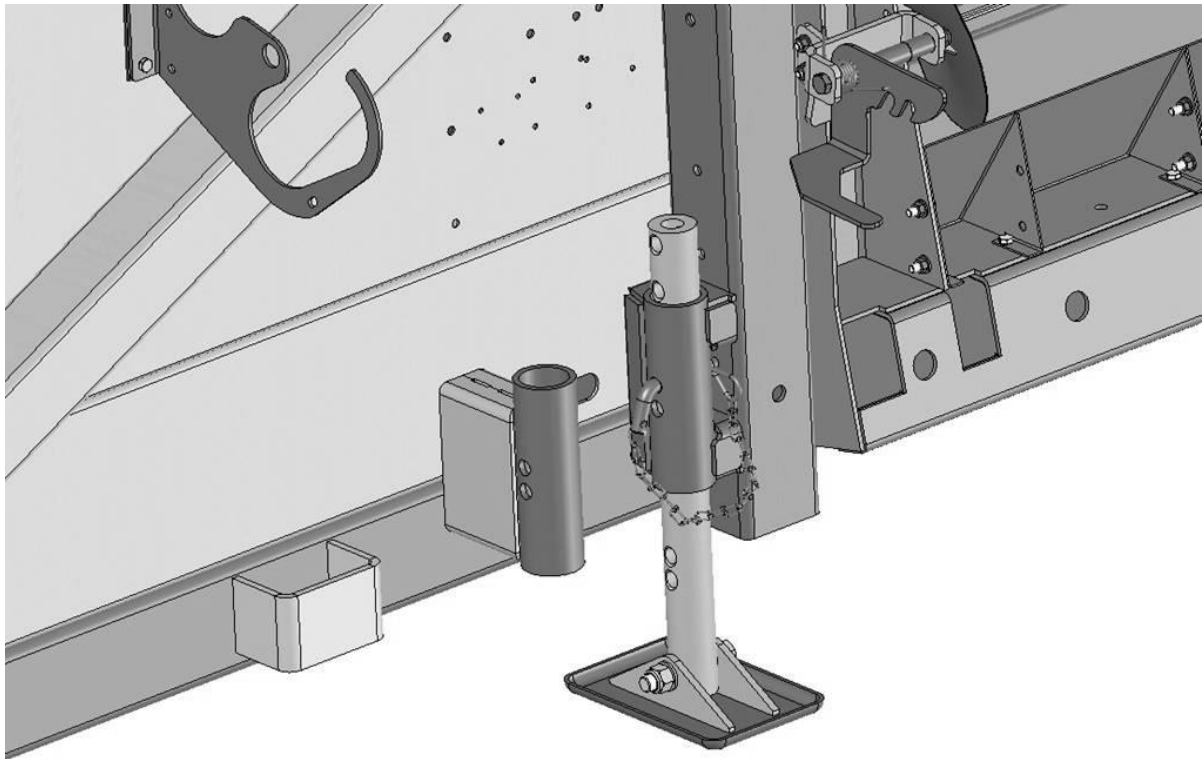


## 7. SETUP PROCEDURE AND ADJUSTMENT OF THE CORN HEAD

### 7.1. Frame

The corn head is provided with parking stands which must always be used when it 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.



## 7.2. Auger

The auger is driven through a torque-limiting clutch that can disengage excessive loads on the drive. This clutch is located on the left-hand side, but an additional clutch is located on the right hand side on larger corn heads.

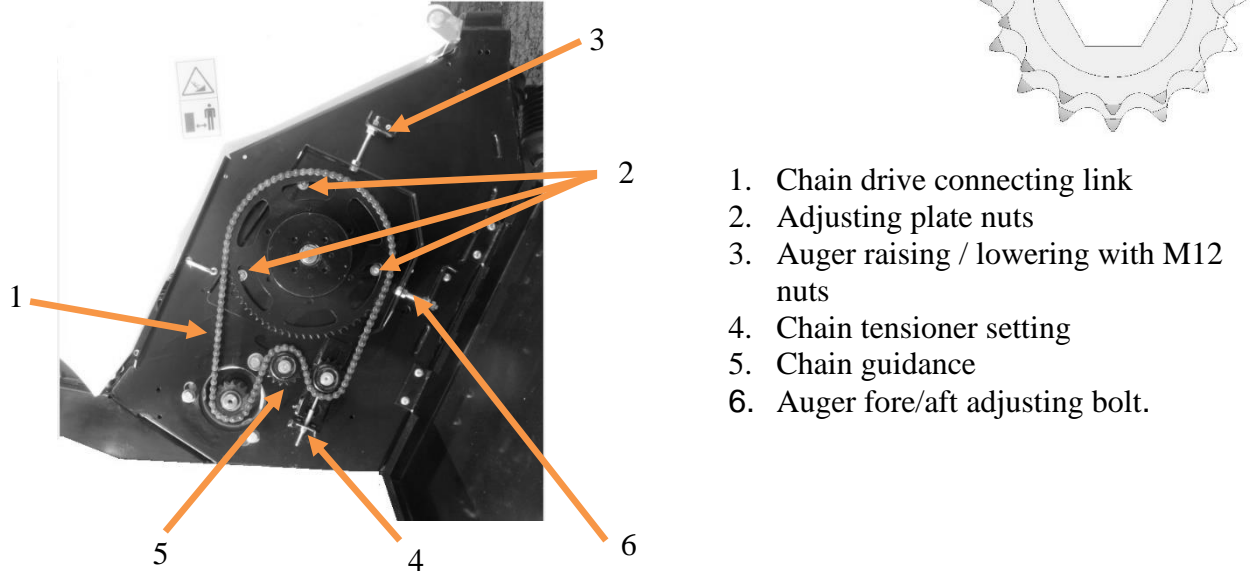
In some conditions it may be necessary to change the speed of the auger. The driver sprocket can be reversed to provide an alternate speed to suit field conditions.

High speed - 16 tooth (factory)

Low speed - 14 tooth (alternate for lodged corn)

The 12, 16 and 18 row headers have 18T/16T sprocket

With the 18T installed from factory



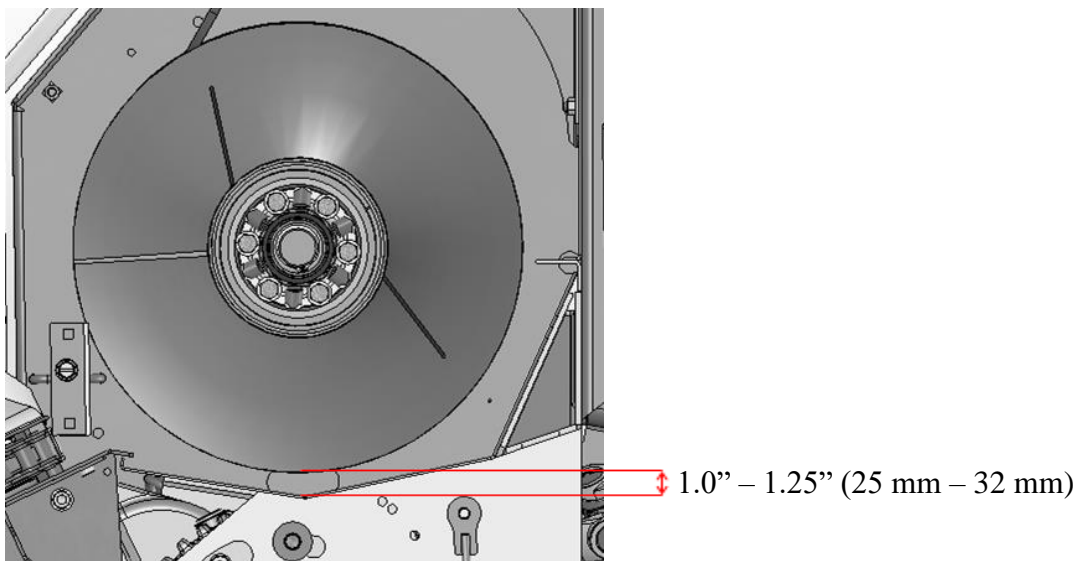
1. Chain drive connecting link
2. Adjusting plate nuts
3. Auger raising / lowering with M12 nuts
4. Chain tensioner setting
5. Chain guidance
6. Auger fore/aft adjusting bolt.

Rigid frame header: for adjusting the auger use the following screws - no. 3 and no. 6.

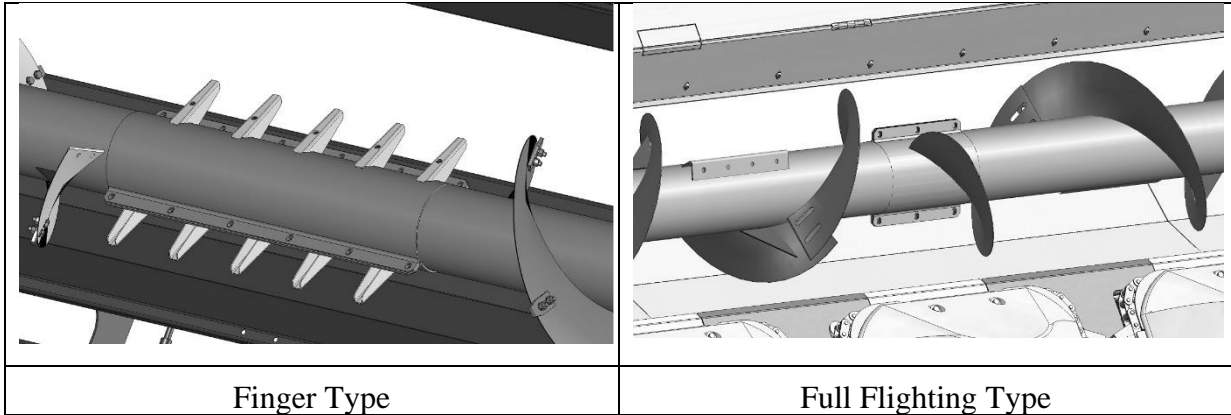
Gap between flighting and auger pan at minimum clearance

Check factory setting 1.0" – 1.25" (25 mm – 32 mm)

Check clearance at both ends of auger and adjust if necessary



- Augers will come standard from factory with full flighting installed
- Options include fingers and paddles in place of full flighting
- Fingers are recommended in very dry, fluffy corn where positive conveyance to the feederhouse is needed
- Paddles can be installed over the fingers if wrapping becomes problematic

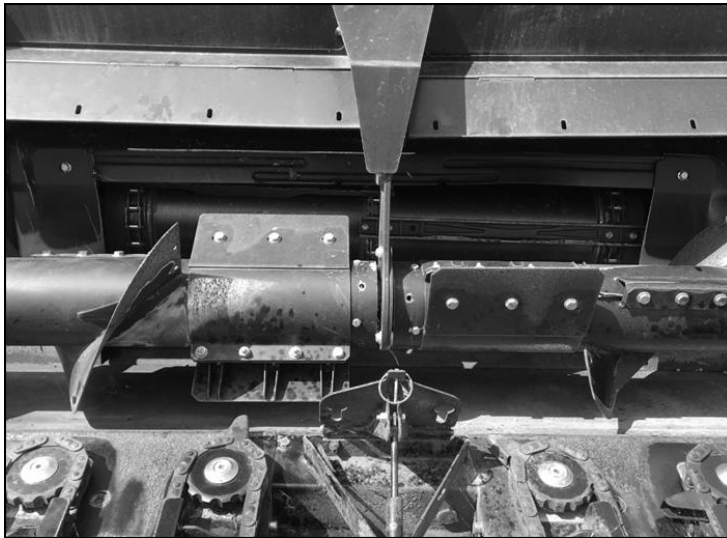


### 7.3. Auger Timing:

#### 7.3.1. Dual Auger Drive Time (Double Auger)

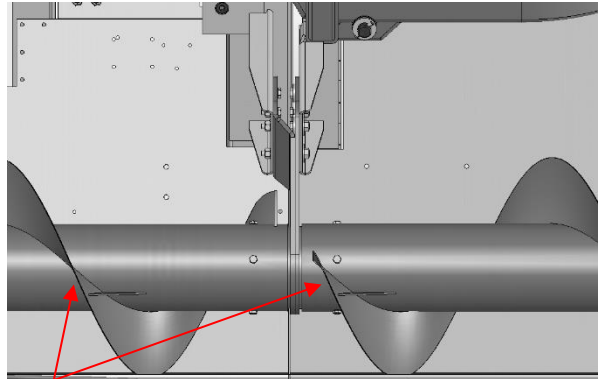
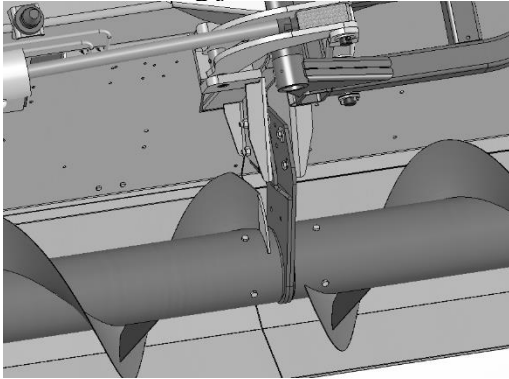
- Flighting should be offset by 180° for paddles and fingers
- To adjust:

Remove, rotate, and reinstall the RH drive shaft from the combine backshaft to the desired position. Alternatively, remove auger drive chain and rotate auger to desired position and reinstall chain.

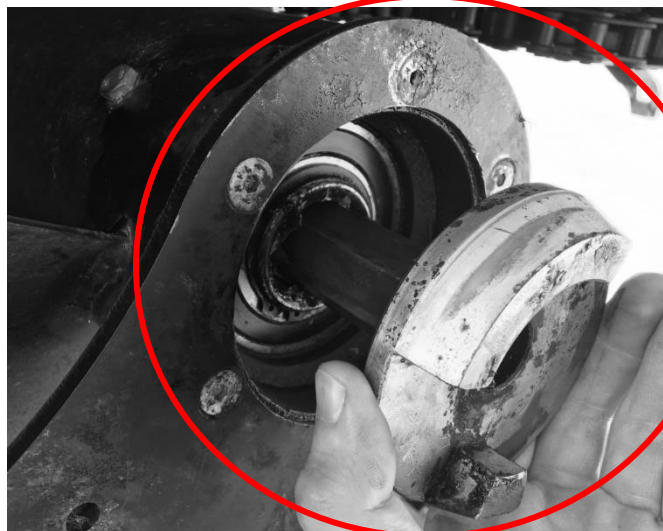
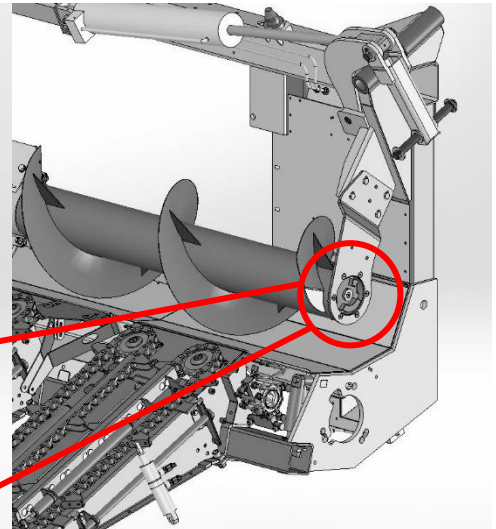
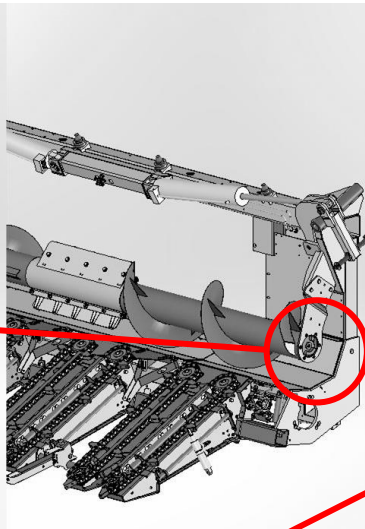
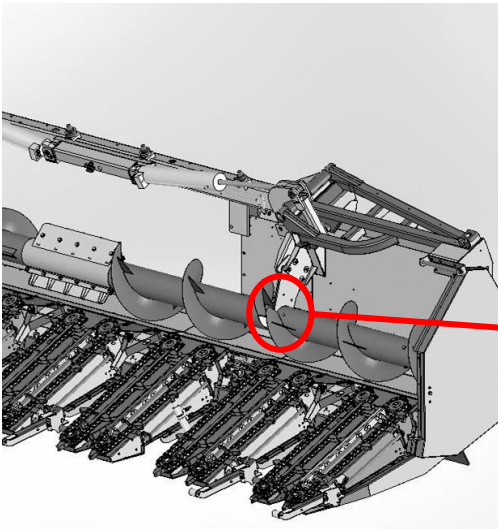


### 7.3.2. Folding Corn Head Wing Auger Timing

- Distance between the flighting should be properly maintained to optimize feeding across the wing joint



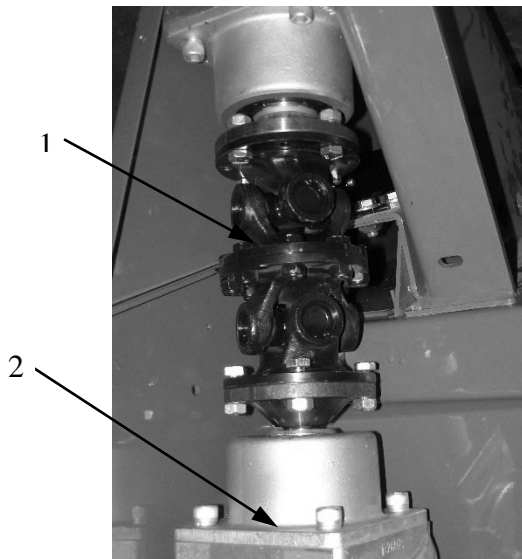
- The distance between the flighting should be 18"-20"
- Ensure the wing is engaging the center section when checking timing
- To adjust timing, remove the jaw coupler on wing and rotate it in the appropriate direction in the hex bore and reinstall



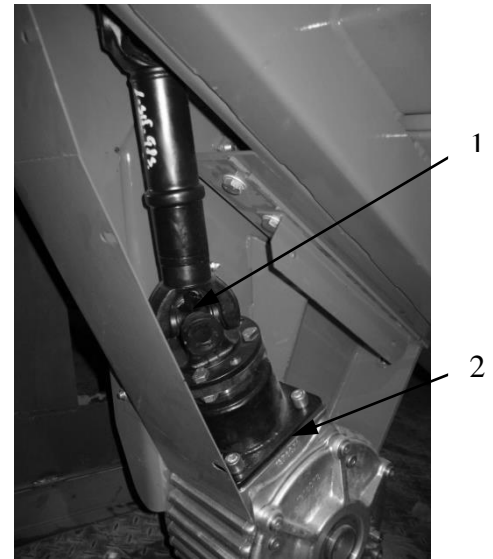
### 7.4. Input Gearbox Drive

The input gearboxes are connected by a double joint coupling drive or shaft (1) depending on the combine. The gearbox assemblies (2) are selected to provide a nominal snapping unit input speed of 550 rpm for each combine. Gearboxes can be exchanged as necessary.

See appropriate combine conversion document for complete instructions



Double joint coupling  
(all except Claas)



Shaft-drive  
(Claas)

**The input gearbox drive does not require any additional adjustment**

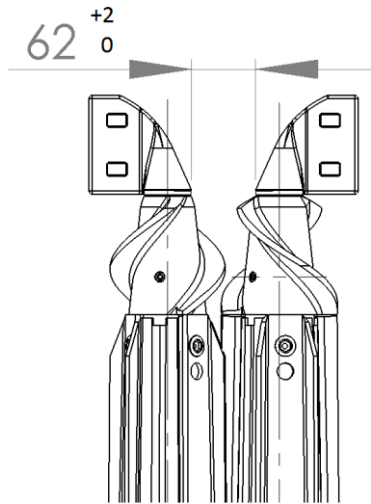
## 7.5. Snapping units

### 7.5.1. Snapping rolls adjustment

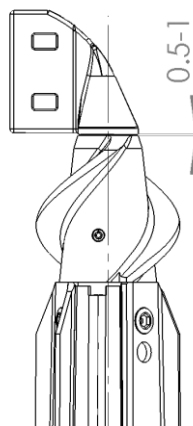
Three important settings must be observed when installing or adjusting the snapping rolls.

#### 7.5.1.1. Distance between snapping roll shafts

Adjust the shafts parallel to each other by setting 62 mm (2.45") between the two bearing housings as shown in the illustration below.



#### 7.5.1.2. Labyrinth



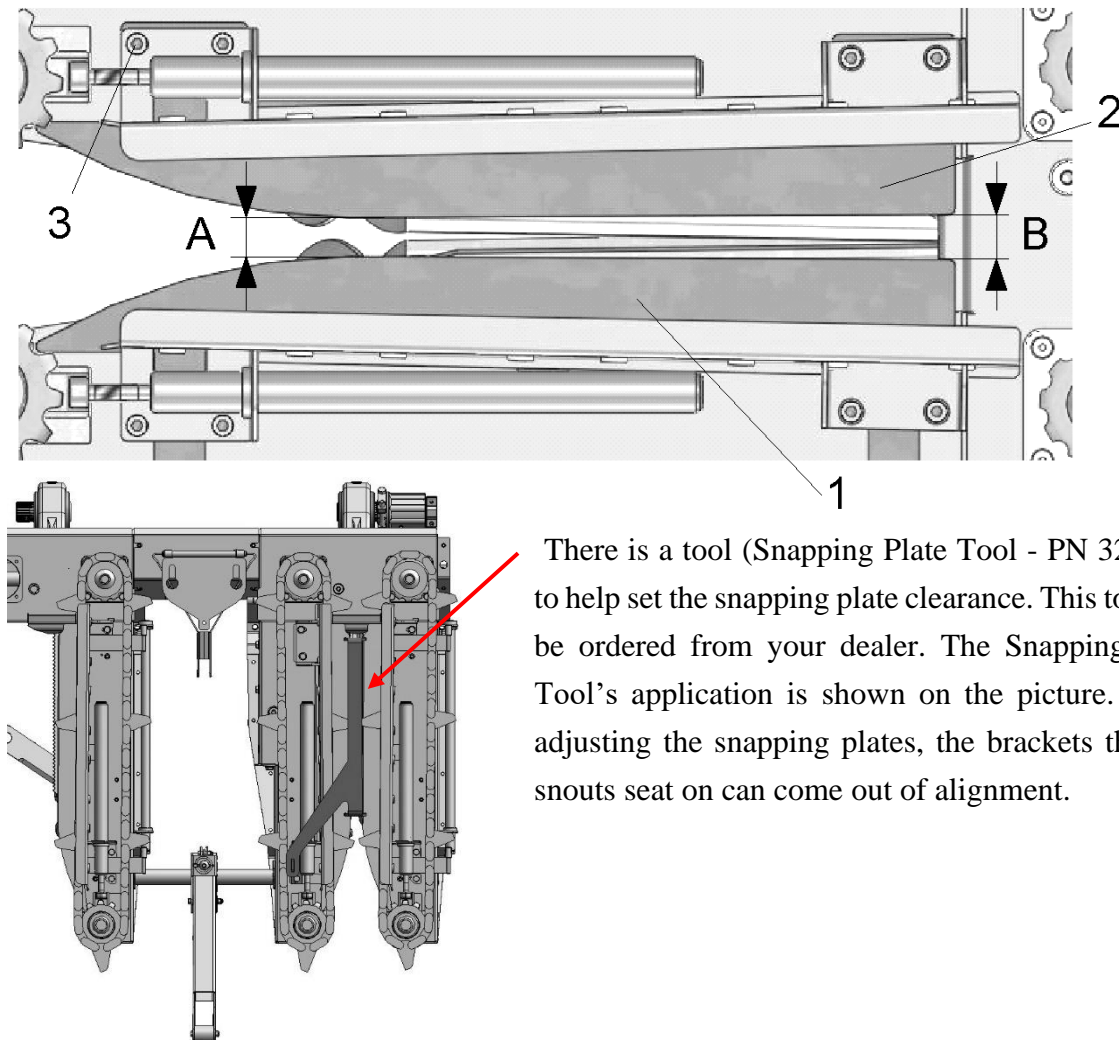
Two sealed double ball bearings are used to support the spiral end of the snapping roll. The bearings are protected by a labyrinth filled with grease. The labyrinth can be flushed by adding grease through the grease nipple. The distance (0.5-1mm) is for reference only, because design dimensions of the parts ensure the correct gap.



### 7.5.2. Snapping plate adjustment

The nominal factory setting is 27 mm (1-1/16") at the front and 32 mm (1-1/4") at the rear. For proper operation, the snapping plate gap should be 5 mm (3/16") tighter at the front than at the rear. The in-cab snapping plate adjusting mechanism can change the gap to 9 mm (5/16") tighter and 10 mm (3/8") wider than the nominal position. Set the mechanism as follows:

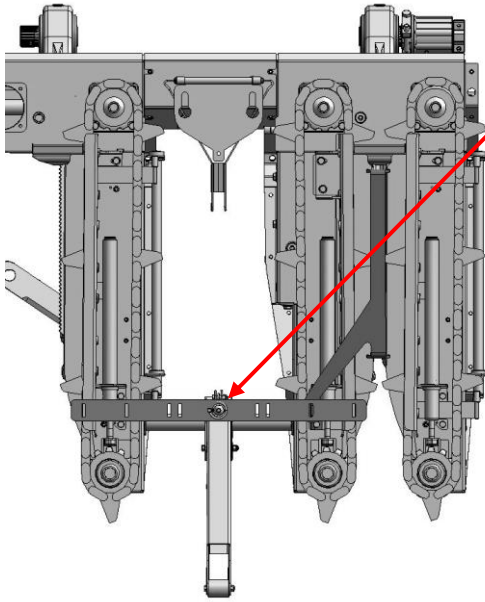
- Set the in-cab snapping plate adjusting mechanism to the minimum snapping plate gap.
- Refer to the figure below. Adjust the fixed snapping plate (2) relative to the movable snapping plate (1) to provide a gap of 18 mm (3/4") at the front (dimension A) and 23 mm (15/16") at the rear (dimension B) by loosening the retaining bolts (3). When the adjustment is correct retighten the bolts. Repeat for all remaining row units.
- In-cab operation should result in the nominal gap of 27 mm (1-1/16") at the front and 32 mm (1-1/4") at the rear in the mid-range of travel.



There is a tool (Snapping Plate Tool - PN 324048) to help set the snapping plate clearance. This tool can be ordered from your dealer. The Snapping Plate Tool's application is shown on the picture. When adjusting the snapping plates, the brackets that the snouts seat on can come out of alignment.

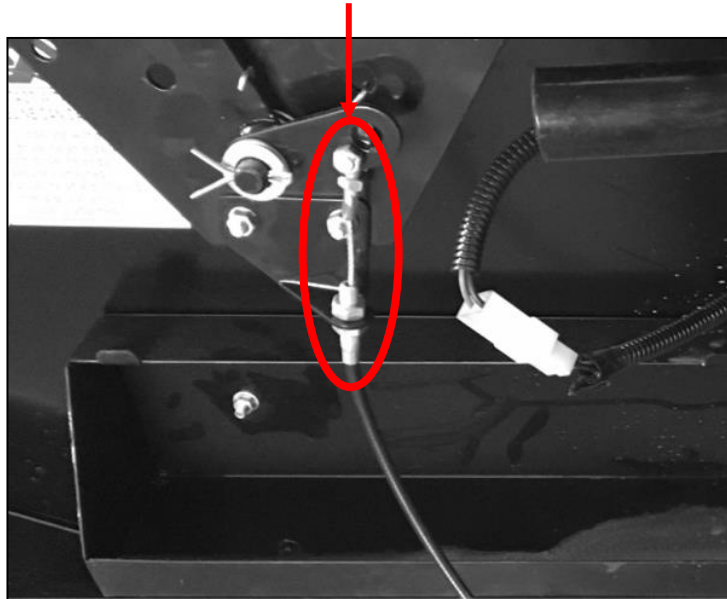
## SETUP PROCEDURE AND ADJUSTMENT OF THE CORN HEAD

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There is a tool (Snout Seating Tool – PN 324144) that can be placed between the two brackets while setting the snapping plate clearance so the snouts align with the brackets after they are tightened down. This tool can be ordered from your dealer

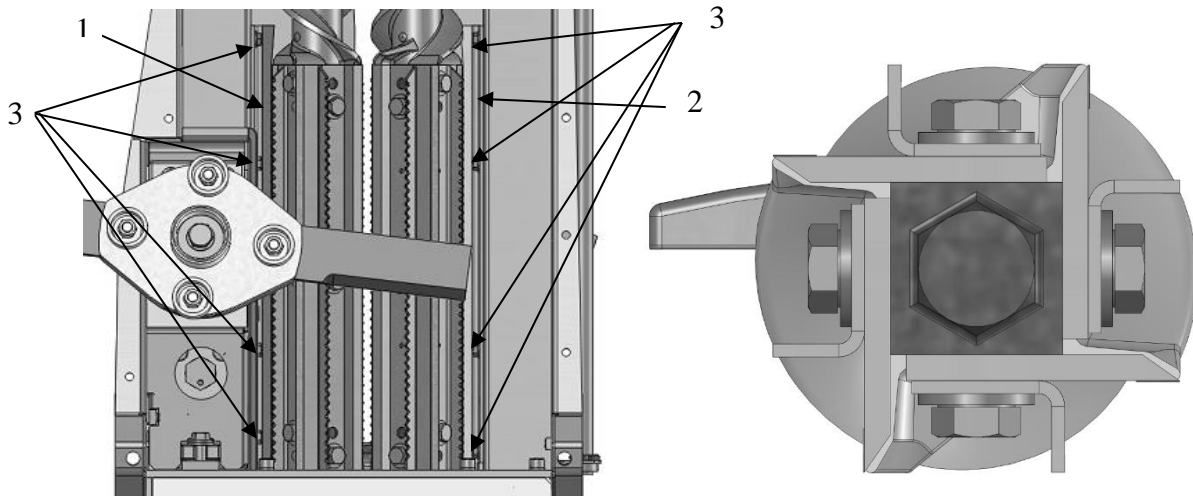
Periodically lubricate the top of the snapping plate indicator cable to prevent off-season freezing.



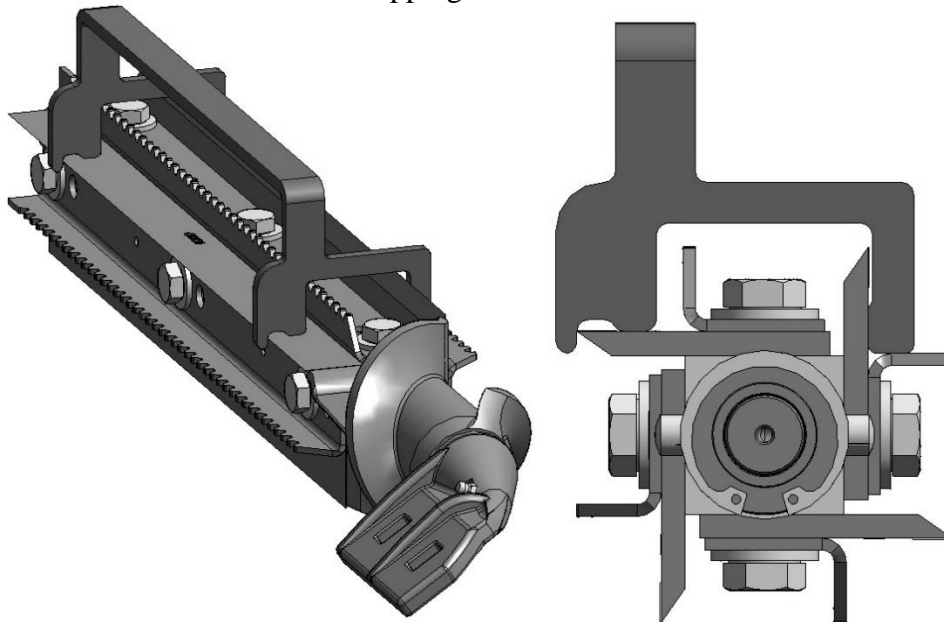


### 7.5.3. Vine knife adjustment

The gap between the vine knives and the stalk rolls should not exceed 1 mm (.04"). This gap should be set on one rib and all rib clearances should be checked by rotating the rolls to ensure there is no interference. Adjustment is made by loosening the M-8 screws (3). Relief holes are provided to make a fine adjustment.

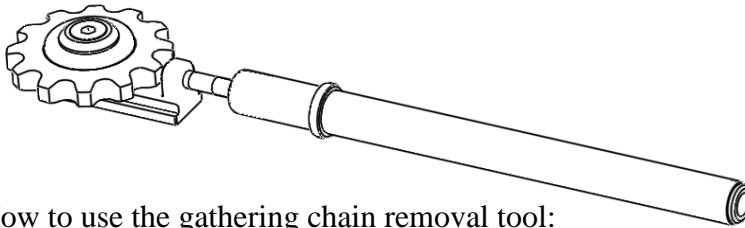


There is a tool (Snapping Gauge Tool - PN 324124) to help set new knives on the snapping roll. This tool can be ordered from your dealer. The Snapping Gauge Tool's application is shown on the picture below. After installing new knives follow the instructions from section 7.4.1.1 to set the distance between snapping roll shafts



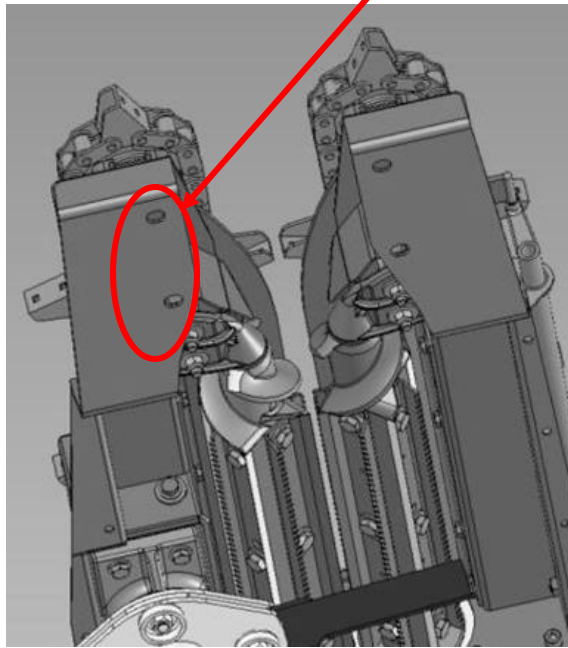
### 7.5.4. Gathering chain adjustment

The gathering chain tension is maintained automatically by an enclosed spring on the front idler. A tool is provided to compress the spring for service.



How to use the gathering chain removal tool:

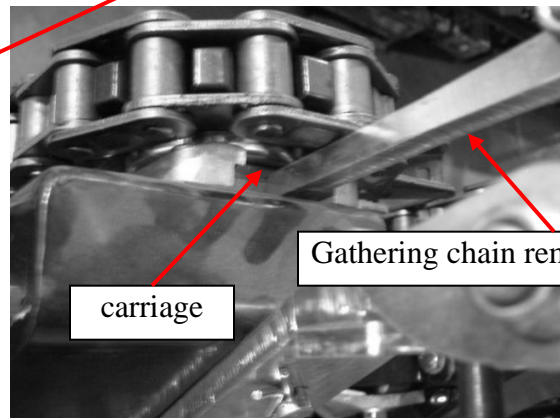
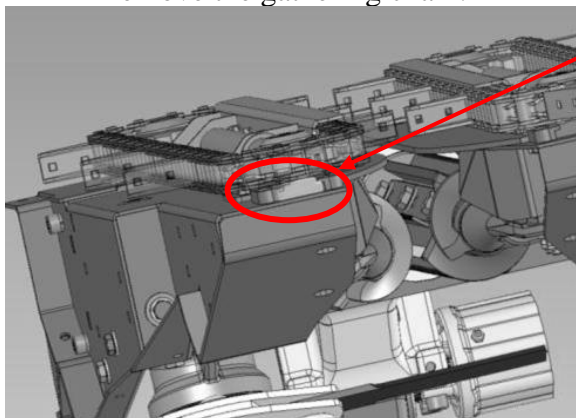
1. Install the gathering chain removal tool and attach it in the holes on the bottom of the snapping unit frame.



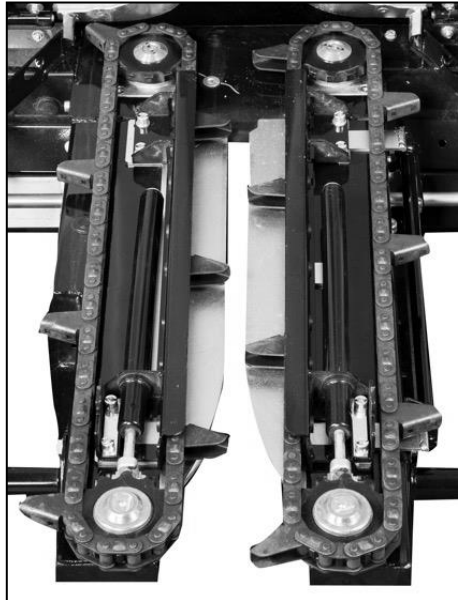
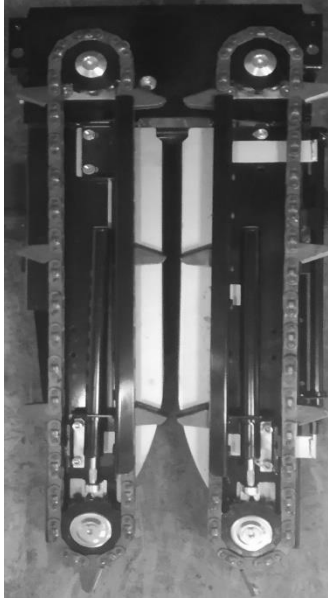
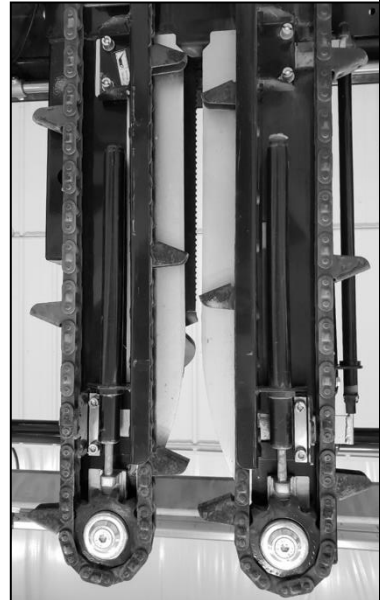
2. Position the arm of the gathering chain removal tool into the carriage. (marked surface)

Rotate the handle of the removal tool and lock it in place once tension on the gathering chain is relieved.

Remove the gathering chain.



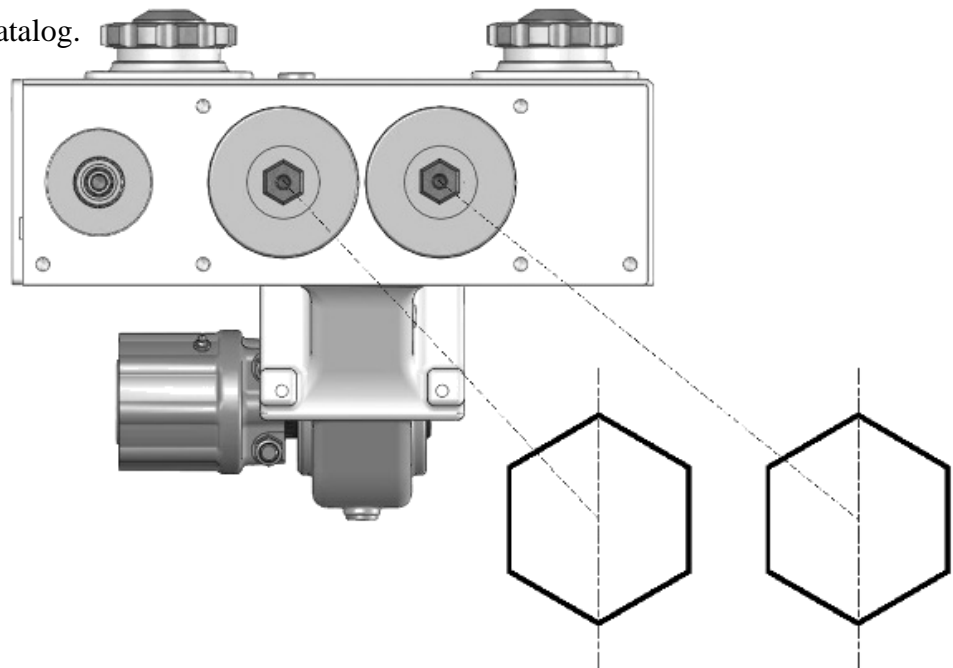
Gathering Chain Lug Timing:

Fully Staggered	Fully In-Phase (lugs lined up)	One lug staggered
Least aggressive Good conveyance	Most aggressive Brings in most trash/debris Good for lodged corn	Good compromise Factory setting
		

#### 7.4.5. Gearbox timing and backlash adjustment

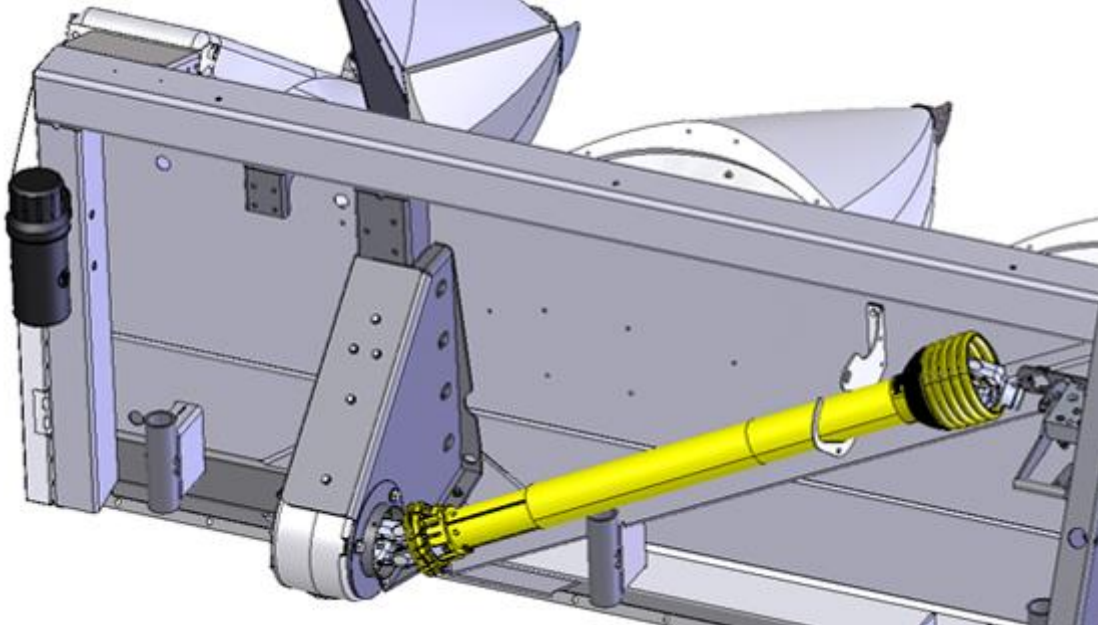
Snapping roll gear timing is done by visually aligning the hex shafts as shown below.

The backlash can be determined by rotating one gear relative to the other. There should be 1° of free rotation between the gears. The backlash can be increased by adding gasket shims as shown in the Parts Catalog.



### 7.6. Header Drive Shafts

The Walterscheid brand drive shafts require lubrication every 250 operating hours. Remove the shaft annually and grease it according to the label instructions provided by the shaft manufacturer on the shaft cover.



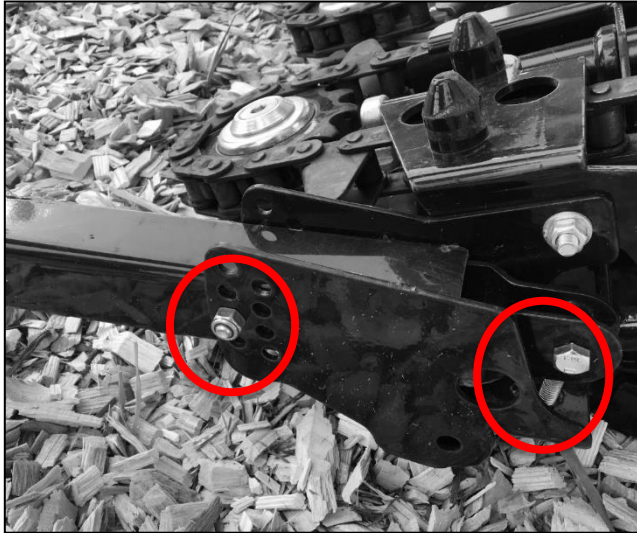
### 7.7. Clearance lights

Clearance lights must be changed from shipping to field position. Simply remove four nuts on U-bolt clamps securing tube and rotate light 90 degrees

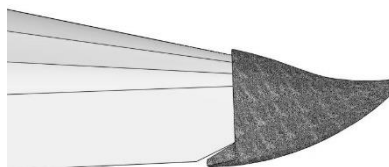


### 7.8. Plastic snout adjustment

- Lower front of row unit on a 4"X4" block with combine feederhouse (distance between front of row unit and ground will be 3.5" or 9cm). Measure deck plate angle and adjust feedhouse angle until 23 degrees is achieved.



- Snout support arms must be changed from shipping to field position. Remove the cross bolt and reinstall in the desired position
- Ensure bolt head is facing gathering chain
- Fine tune snout adjustment with eye bolt until front of snout just touches the ground



**Manufacturer and Distributor are not responsible for incorrect snout adjustment.**



### 8. 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, if fitted, when harvesting.
- The corn head should be operated only when in harvesting position and in proper working condition.



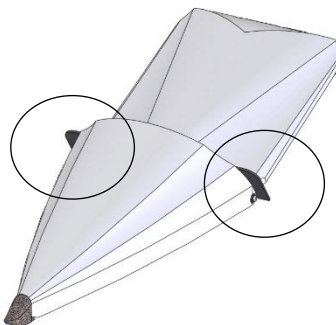
Specified daily maintenance, correct settings and safe operation are required to ensure that the stalk choppers operate properly and safely. Always consider possible circumstances where the knife can impact stones or other foreign objects laying on the ground. Any such impact can result in pieces separating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

**ALWAYS STAY CLEAR** of the corn head while in operation. Bystanders should always be at least 30 m (100 ft.) from the corn head while in operation.

1. After 1 hour of initial operation, stop the machine, remove the combine key, and check the following:
  - a. Temperature of all gearboxes (maximum 60 degrees C or 170 F)
  - b. Loose parts or hardware
  - c. Tension of all chains
  - d. General visual inspection

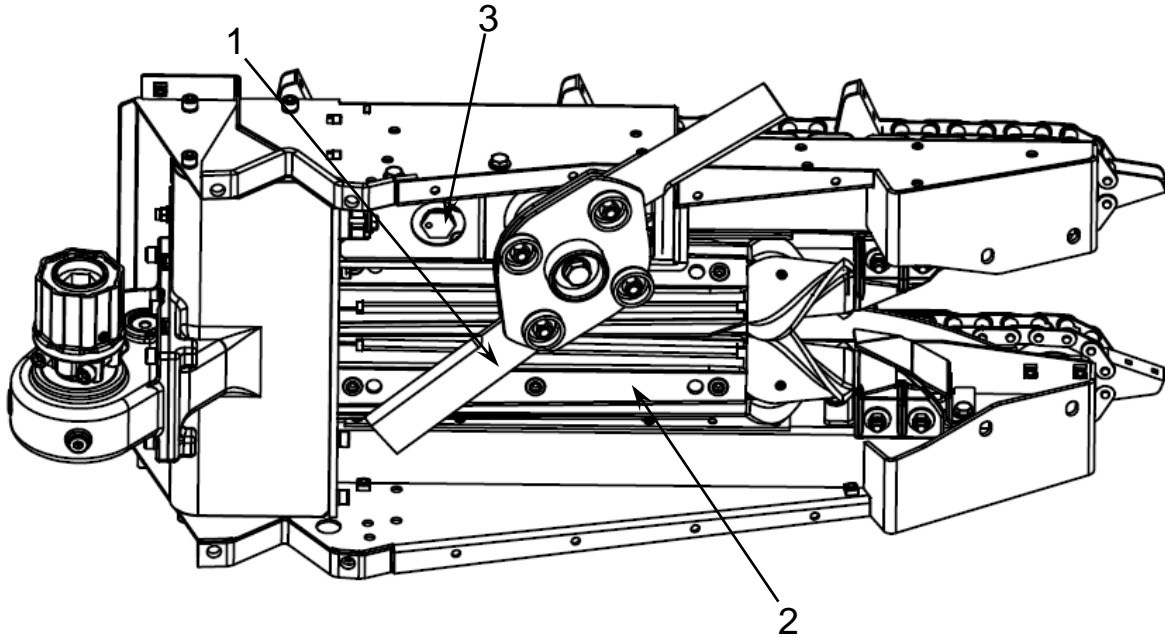
If this inspection reveals any abnormality, determine the cause of the abnormality or contact your dealer for assistance.

If the crop is severely laid or lodged it may be necessary to remove one or both of the rubber ear savers from the rear of the snouts to improve feeding to the row units.



### 8.1. Stalk chopper

The stalk chopper (1) cuts the stalks directly under the snapping rolls (2) with special knives. The stalk chopper drive can be disengaged by turning the hex knob (3) 180 degrees.



Then chopper knives can be reversed when worn. When knife replacement is necessary replace the bushings, bolts and nuts. Consult the parts manual for further information.

**9. ROW SPACING ADJUSTMENT**

The row unit spacing must match the corn row spacing for optimum performance. This is of greater importance with wider corn heads. Improper matching can result in premature wear of the snapping roll front supports and the leading edge of the snapping plates. The row unit spacing is set from the factory and is not designed to be adjusted afterwards.

**10. MOUNTING TO ANOTHER TYPE OF COMBINE**

The mounting kits for various combines are shown in the parts manual. Order the relevant mounting kit from your dealer.



When mounting the corn head to another type of combine always use all of the protective shields. Ensure that the lower latch attachment and drive connections are secure.

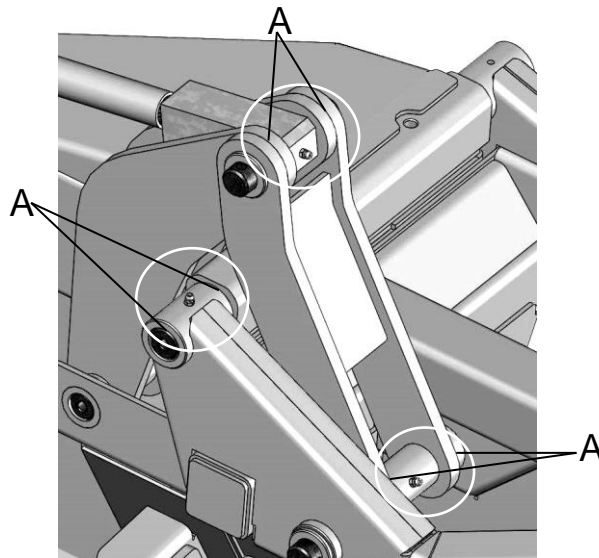


## 11. MAINTENANCE AND LUBRICATION

### 11.1. Frame

The frame of rigid corn headers does not require any special maintenance.

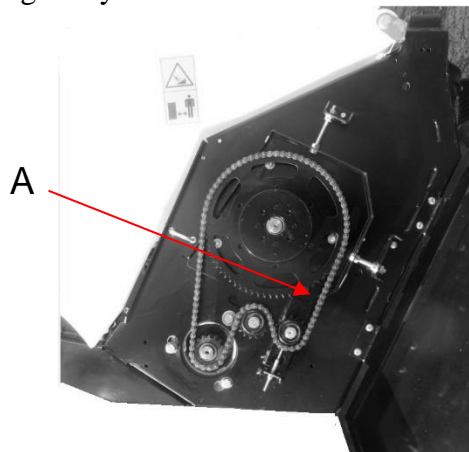
The folding mechanism of the folding corn head should be lubricated with EP NLGI Grade 2 or equivalent quality grease once a season or every 250 hours. Grease the fitting until grease extrudes from the sides of the parts shown on the picture (marked with “A”).



### 11.2. Auger

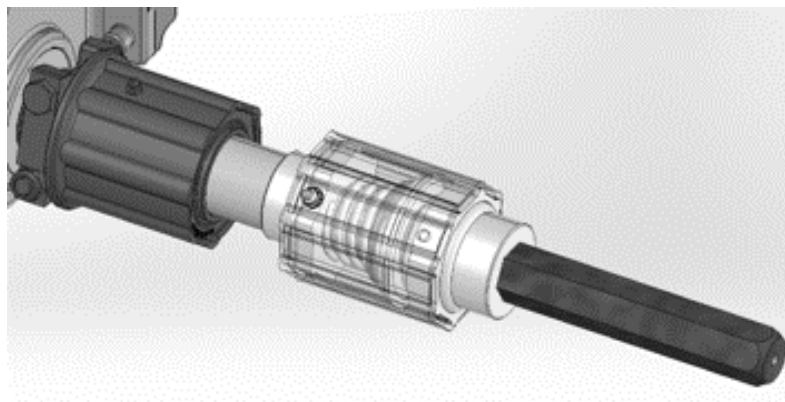
The auger drive chain(s) should be lubricated every 50 hours, and the chain tension should be checked daily. The chain tension is correct if the chain deflects 13-19 mm (0.5” – 0.75”) at the position shown (“A”).

Clean debris under shielding every 50 hours!



### **11.2.1. Folding corn head - snapping unit connecting clutches**

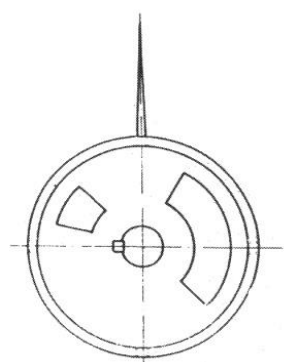
The clutch jaws should be greased every 50 hours with EP NLGI Grade 2.



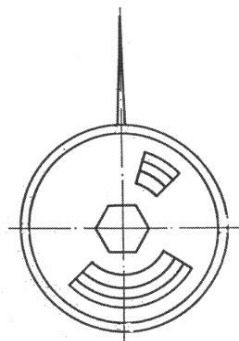
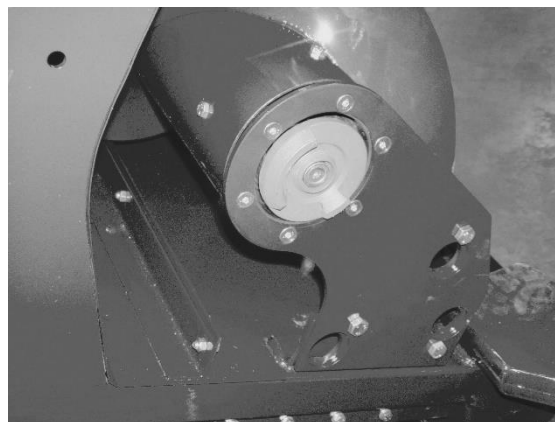
### **11.2.2. Folding corn head - auger connecting clutches**

Grease the surfaces of the clutch jaws every 50 hours with EP NLGI Grade 2.

Before unfolding the corn head into the harvesting position ensure that the auger connecting clutch drive jaws are as shown below.



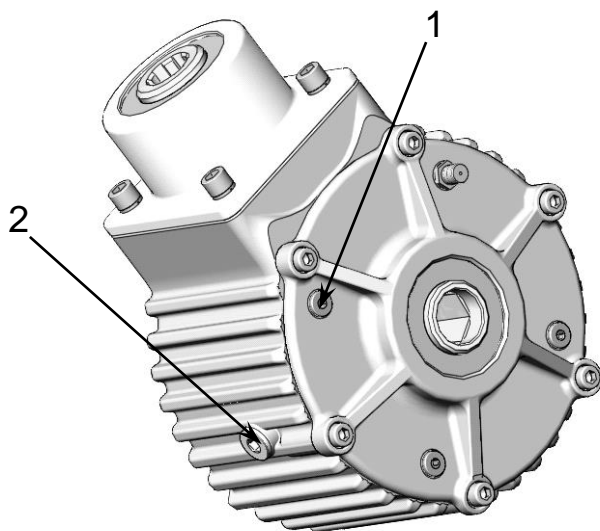
the central frame jaw



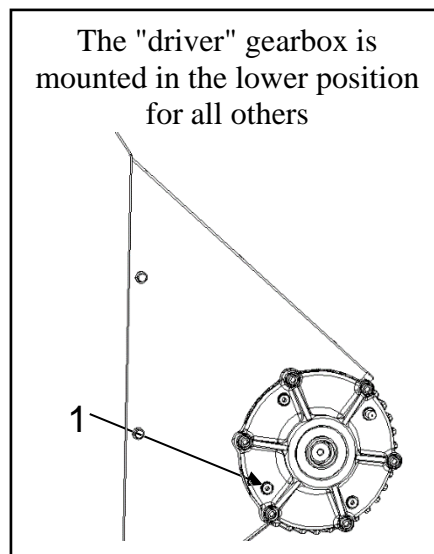
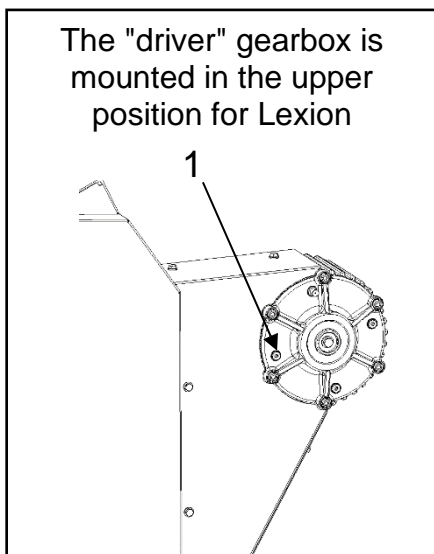
the outer frame jaw

### 11.3. INPUT GEARBOXES

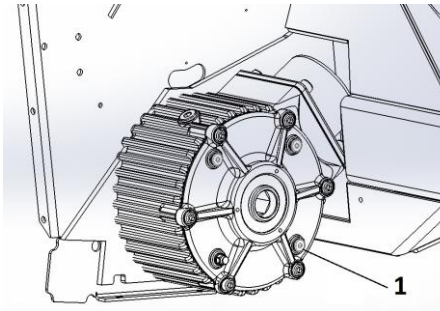
SAE 80W-140 oil (0.9l) is used for lubrication; SAE 85W-140 can be used as alternative. To check the oil level, remove the level plug (1) with the corn head in harvesting position. The gearboxes need a "Break-in" oil change at 50hrs afterwards check the oil level annually or every 250 hours, more often if leakage is detected. The drain and filling plugs (2) are on the main casting of the gearbox, but filling can also be done through the level plug or breather ports.



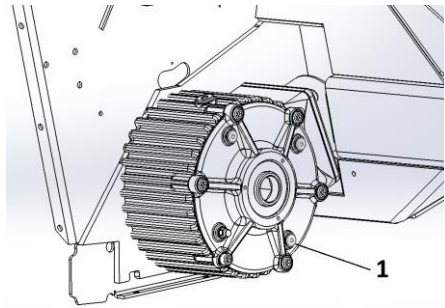
Location of the oil checking bolts on the gearbox.



“Driven” gearbox position, if the “driver” gearbox is mounted in the upper position.



“Driven” gearbox position, if the “driver” gearbox is mounted in the lower position.



The location of the breather depends on the final position of the gearbox. The breather should be placed in the cover hole above the oil level plug.

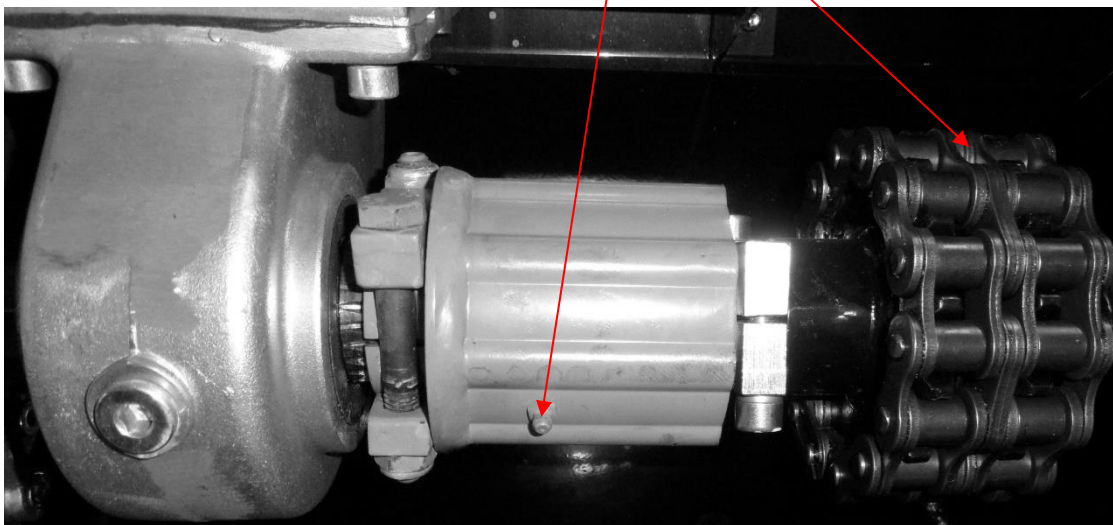
### 11.4. DRIVE COMPONENTS

#### 11.4.1. U-joint shafts:

- The U-joints should be greased every 250 hours.
- Grease the sliding surfaces of the U-joint shafts and cross shafts annually.

#### 11.4.2. Chain couplings, Slip clutches

- Grease the Chain couplings every 250 hours
- Grease the Slip clutches every 250 hours



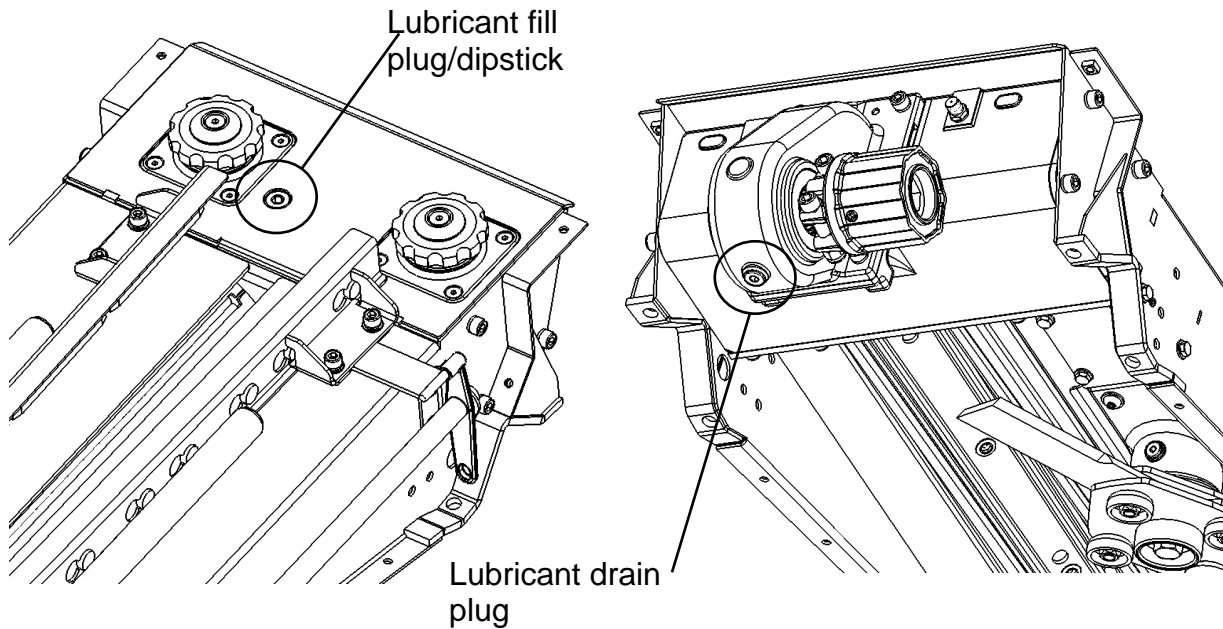
## 11.5. SNAPPING UNIT

### 11.5.1. Gearboxes

	Main gearbox	Chopper gearbox
SAE 80W-140 oil SAE 85W-140 can be used as alternative	-	<b>0.26 kg (0.3 l)</b>
EP-00 liquid grease	<b>2.5 kg (2.5 l)</b>	-
<b>Check frequency</b>	<b>Annually or every 250 hours whichever comes first, or when leakage detected</b>	<b>50 hours, or when leakage detected</b>
<b>Break-in period</b>	<b>50 hours after first usage</b>	<b>50 hours after first usage</b>

Inspect gearboxes daily to detect any leakage which may cause failure.

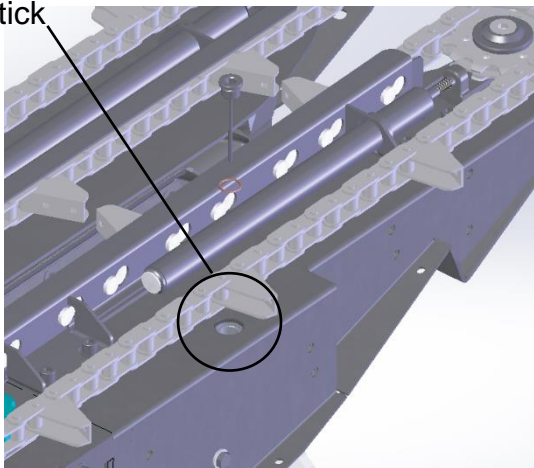
Snapping unit main gearbox:



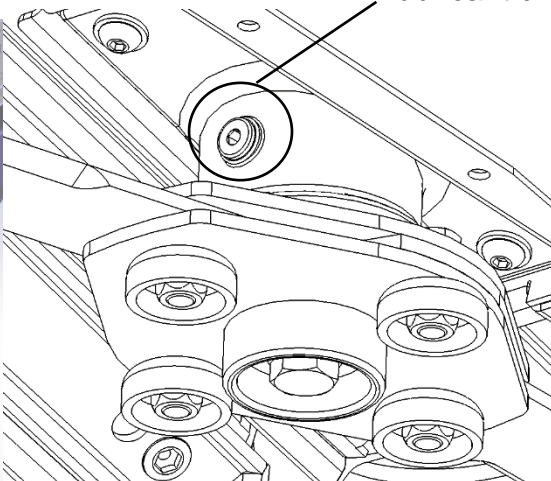
## MAINTENANCE AND LUBRICATION

### Stalk chopper gearbox:

Lubricant fill  
plug/dipstick



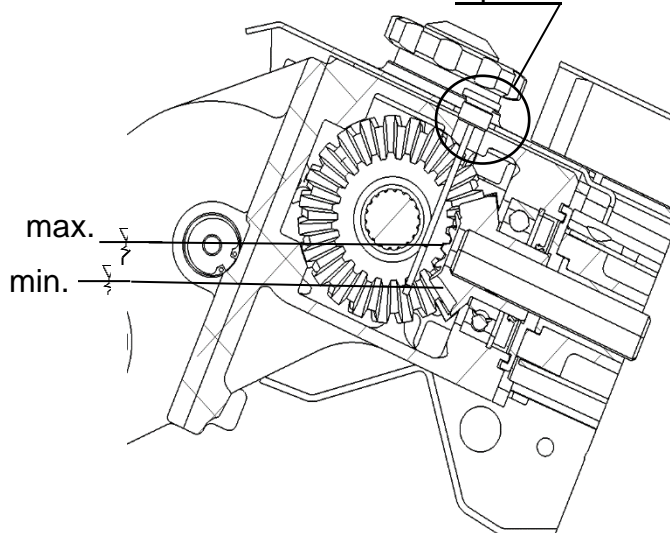
Lubricant drain



To check lubricant levels:

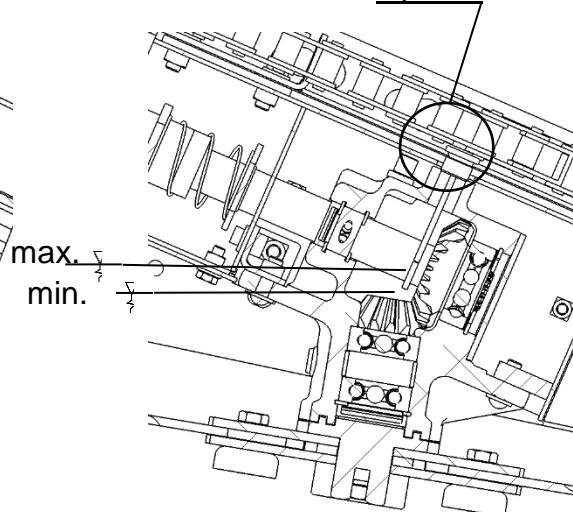
- Lower corn head to the ground
- Unscrew the dipstick
- Wipe the dipstick, then replace it but do not screw it back in
- Wait, then remove the dipstick
- The lubricant level should be midway between the minimum and maximum warning lines.

Lubricant fill plug/  
dipstick



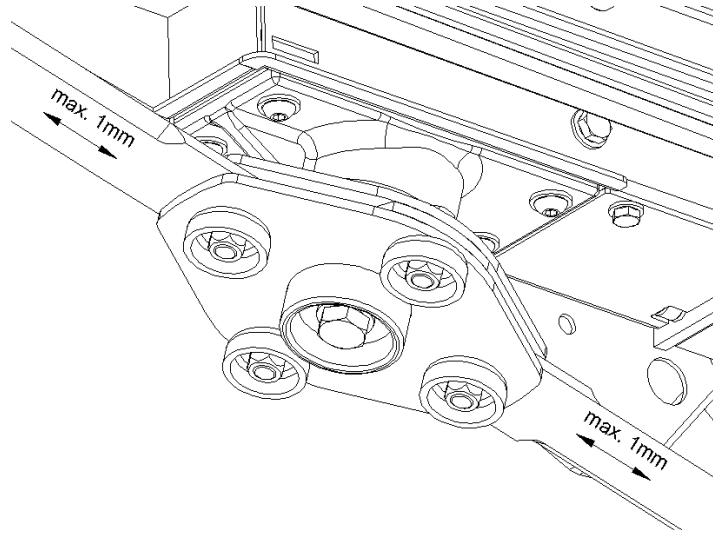
Snapping unit main gearbox

Lubricant fill plug/  
dipstick



Chopper gearbox

### Chopper knives



- Check knife condition daily.
- Never operate with damaged knives.
- The radial clearance between the knife and bushing should not exceed 1 mm (.04"). If clearance exceeds 1 mm (.04"), change both the knife and bushing.
- Knives must be changed only in pairs because of the high rotational speed and balance requirements.
- The knife support bolts should be checked daily and kept tight.

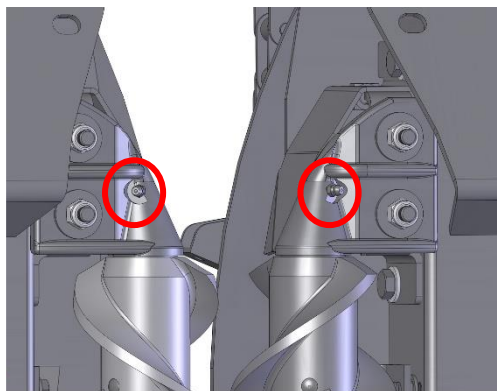
**Neither the Manufacturer nor Distributor assumes any responsibility for wear or failure resulting from improper maintenance or lubrication.**

### 11.5.2. Snapping roll



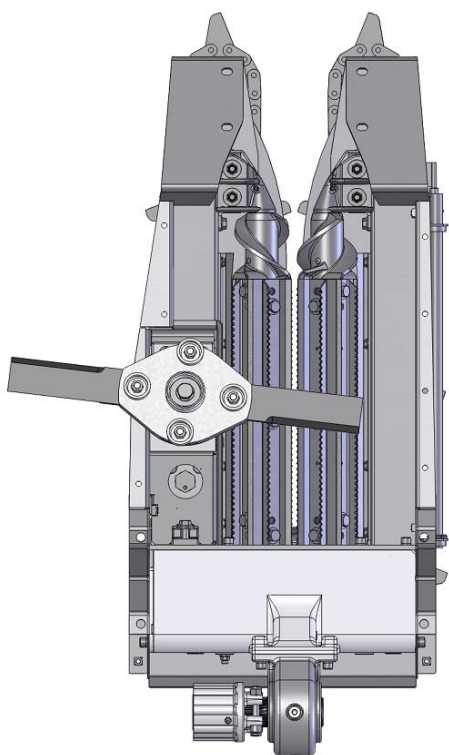
## MAINTENANCE AND LUBRICATION

The front bearings are lubricated with EP NLGI Grade 2 and sealed on both sides by the bearing manufacturer. A greased labyrinth is provided to protect the bearings. Grease the front fitting every 250 operating hours, or once a season until grease extrudes from the labyrinth. This will ensure flushing of the old grease and fully replacing it with new grease.

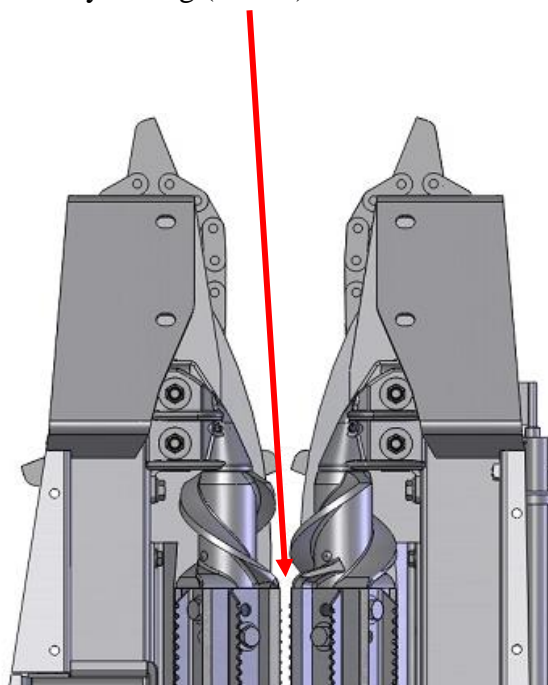


The locations of the front grease fitting of the snapping roll

Ensure that the snapping roll knife retaining bolts are kept tight at all times.



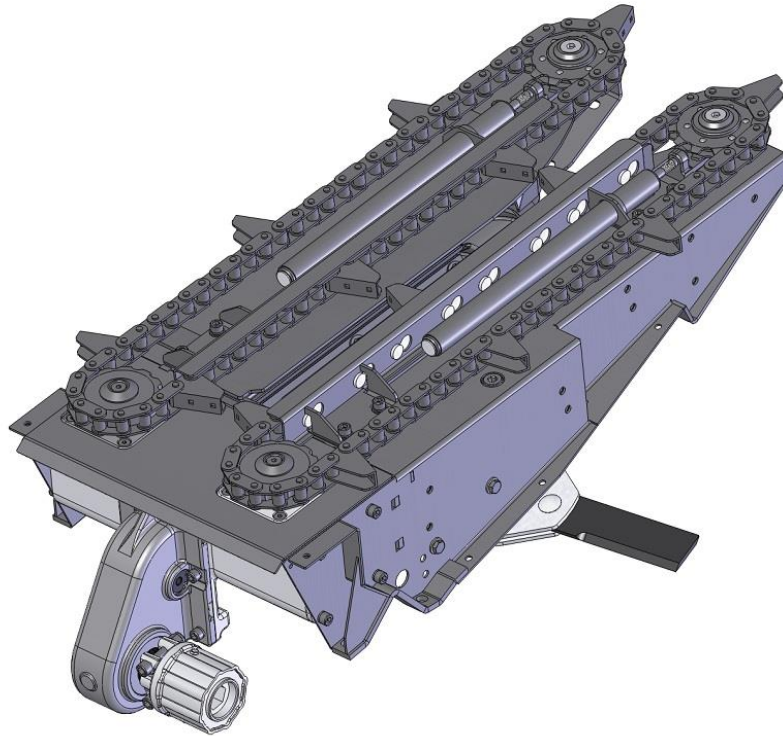
- Check the clearance between snapping rolls knife edges
- Factory setting (1 mm )





### **11.5.3. Gathering chain**

- Lubricate daily using synthetic or vegetable grease or oil.
- Check every 10 hours for abnormal wear.



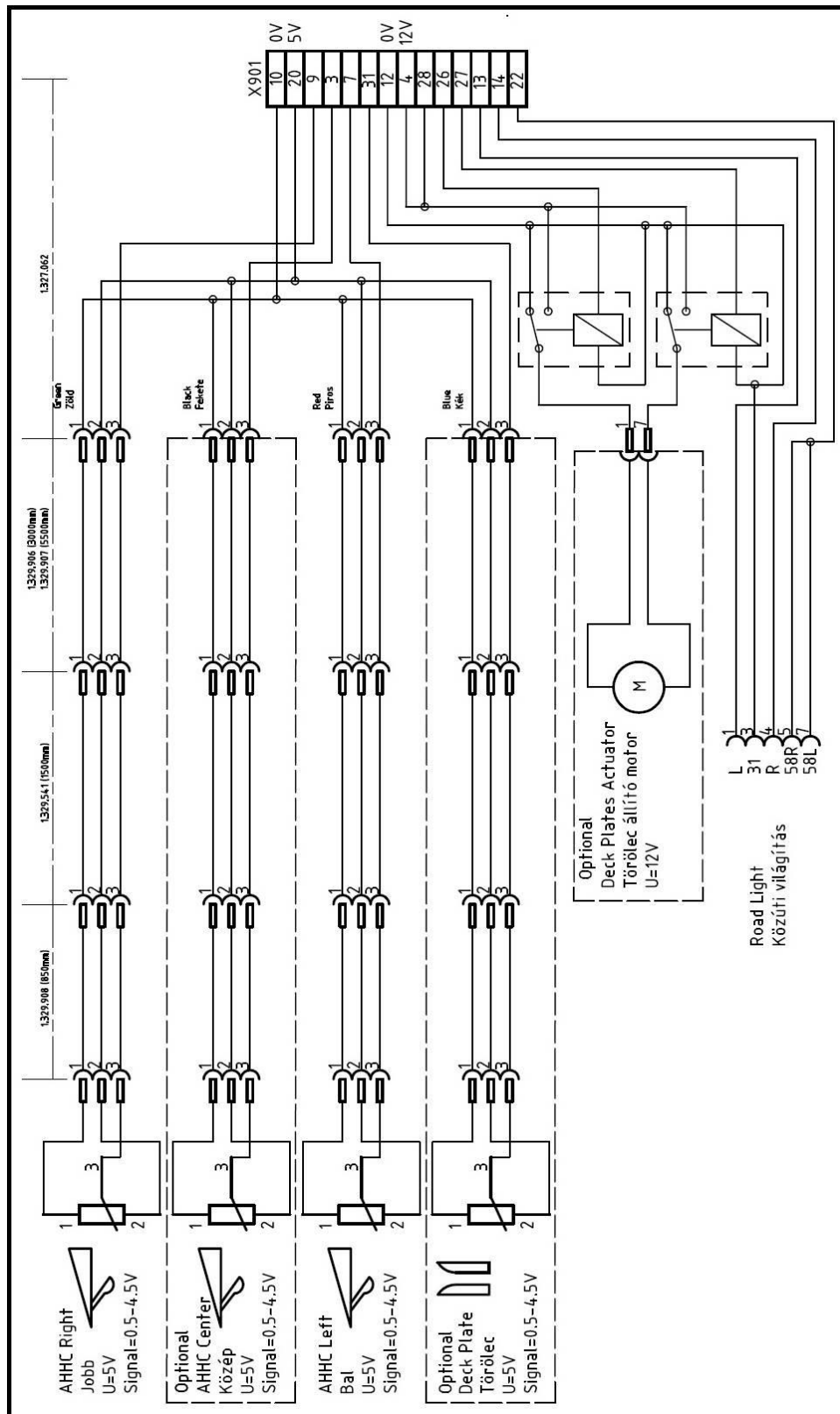
**The corn head Pre-harvesting and Pre-delivery inspection checklists are at the end of the operator's manual.**

**Please verify the corn heads condition before the first running procedure following the Pre-delivery inspection.**

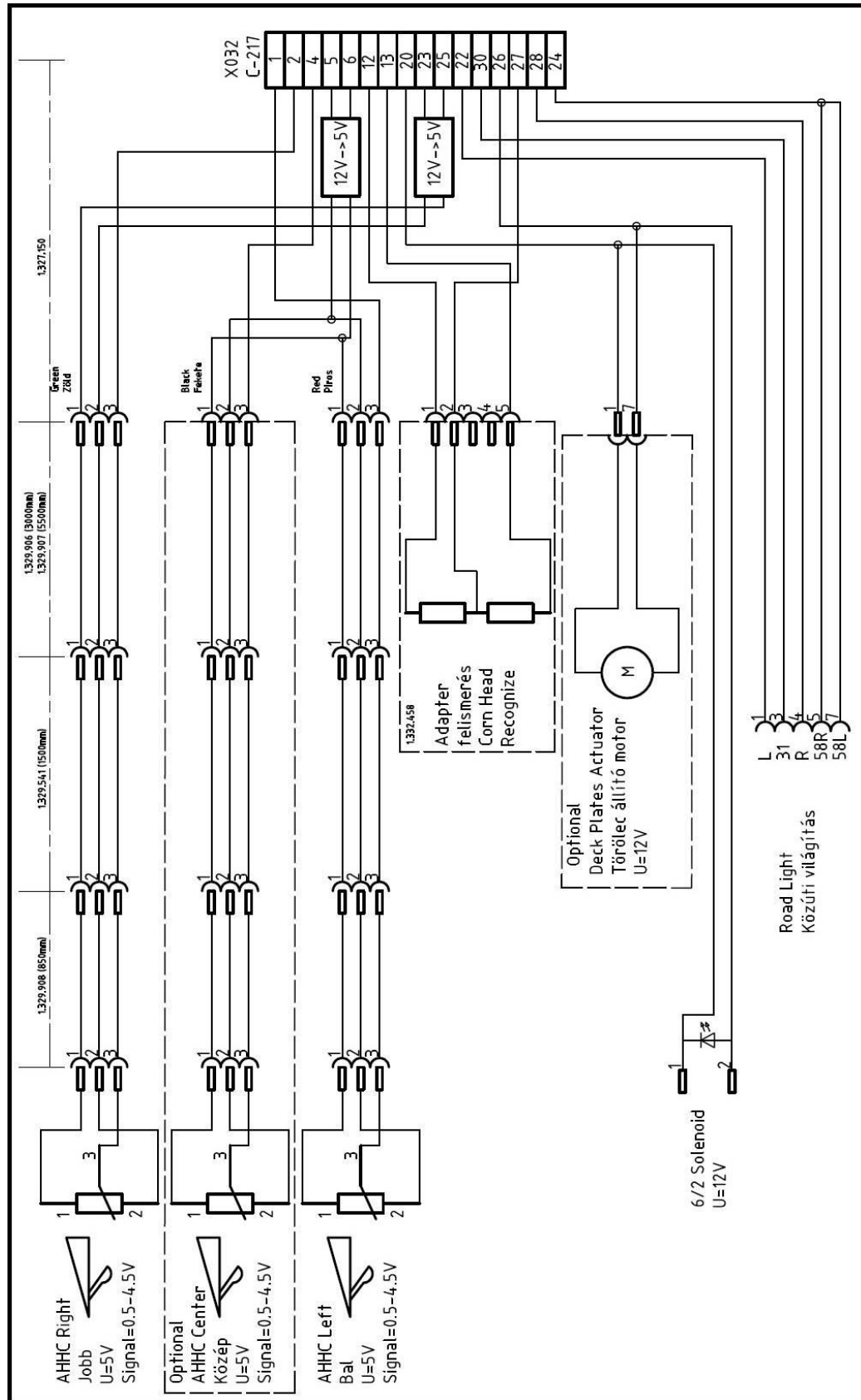
**Please verify the corn heads condition before each harvesting following the Pre-harvesting inspection.**

## 12. ELECTRICAL SCHEMATICS

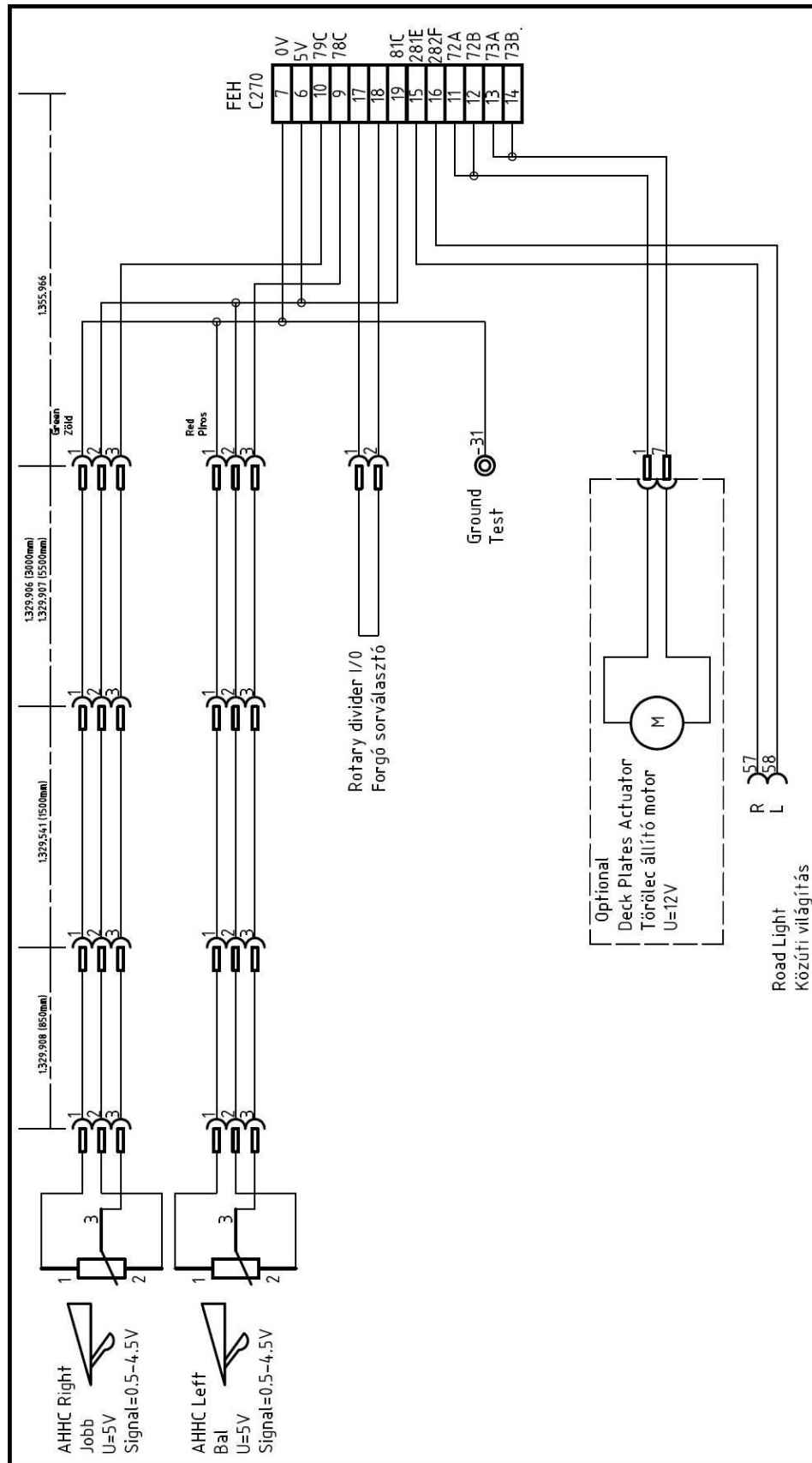
### 12.1. JD electrical schematic



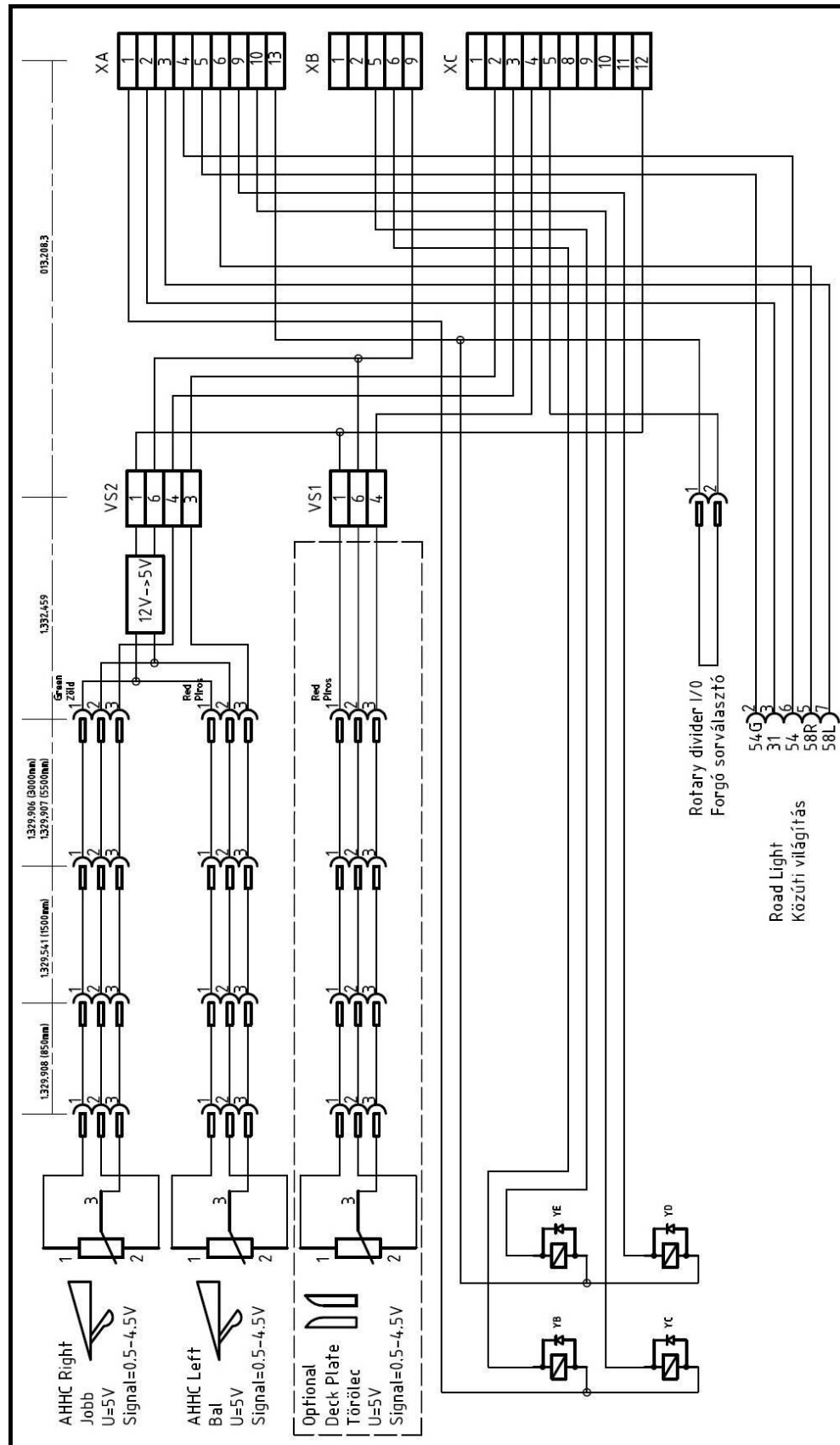
## 12.2. CNH electrical schematic



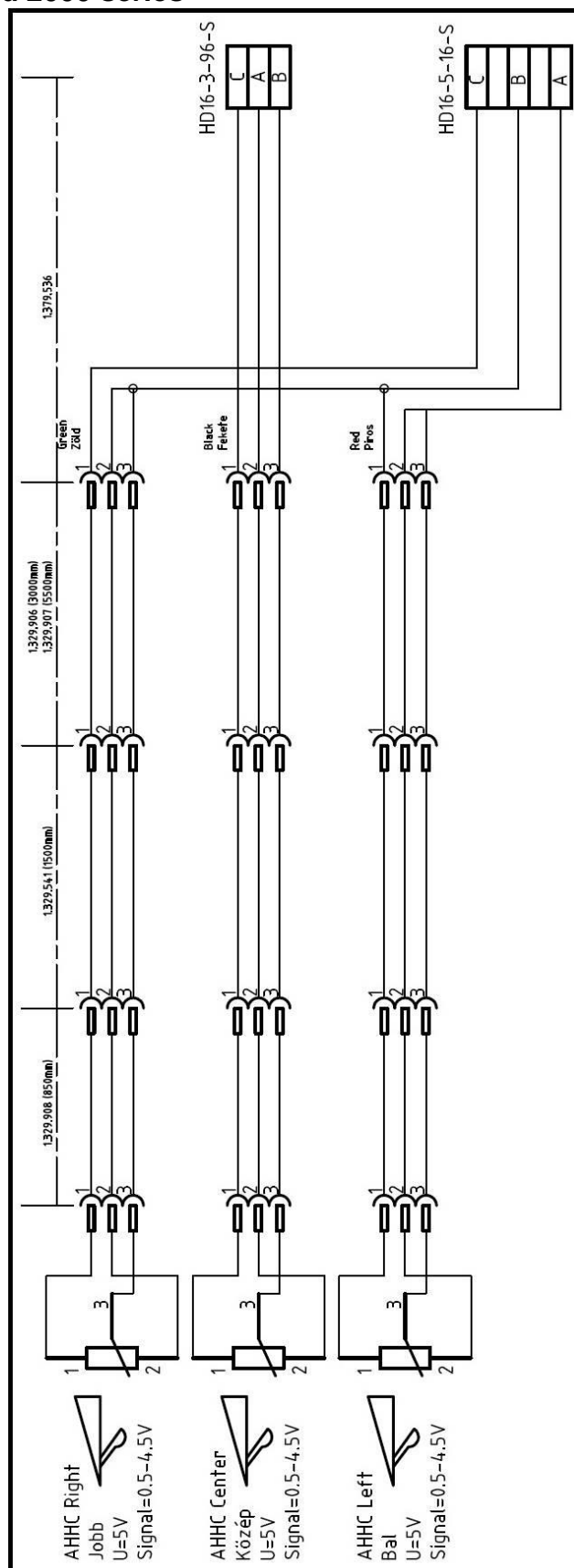
## 12.3. AGCO electrical schematic



## 12.4. CLAAS Lexion electrical schematic



## 12.5. CIH 1000 and 2000 series



### **13. TROUBLE SHOOTING**

#### **13.1. A large quantity of ears builds up between the auger and feeder.**

This can result from improper adjustment of the combine for corn harvesting operation, including front feeder drum (rock retarder drum) position too low, threshing component speed, concave clearance or angle of the feeder front face. Ensure that the combine is adjusted for corn harvesting in accordance with the instructions and settings as recommended in the combine operator's manual.

#### **13.2. In laid or lodged corn stalks, the stalks do not feed properly into the snapping rolls.**

Remove only 1 ear saver per row initially, then second ear saver only if necessary.

#### **13.3. Row unit becomes plugged while harvesting laid or lodged cornstalks.**

Check the tension of the gathering chain.

#### **13.4. Stalks, grass or weeds wrap on the snapping roll.**

Reduce gap of vine knives.

See "Set-up and Adjustment procedure" section 4.3.

#### **13.5. Auger does not rotate.**

Check setting of the auger drive torque limiting clutch.

See "Set-up and Adjustment procedure" section 4. 2.

#### **13.6. Ears are broken or split in the auger.**

Reduce the rotational speed of the auger using the optional sprocket.

See "Set-up and Adjustment Procedure", section 4. 2.

#### **13.7. Difficulty in keeping the corn head properly on the row.**

Check that corn head row spacing matches the corn row spacing.

**14. OFF-SEASON STORAGE OF YOUR CORN HEAD**

When harvesting is completed, thoroughly clean the corn head and remove all remaining debris. Carefully inspect the corn head 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. Repair or replace any damaged or missing parts, including safety labels.

Lubricate the slides on the gathering chain front idlers. If possible, store the corn head in a covered place. If this is not possible, remove the gathering chains, lubricate them and store in a dry, covered area.

**15. WARRANTY, SERVICE, SPARE PARTS ORDERING**

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

**The Manufacturer and Distributor assume no responsibility for failures, wear, or poor performance resulting from improper maintenance, setting, storage or incorrect usage of the corn head.**

The warranty does not apply to wear items.












When ordering spare parts, always identify the corn head by:

- type
- serial number
- part number as shown in the parts manual.

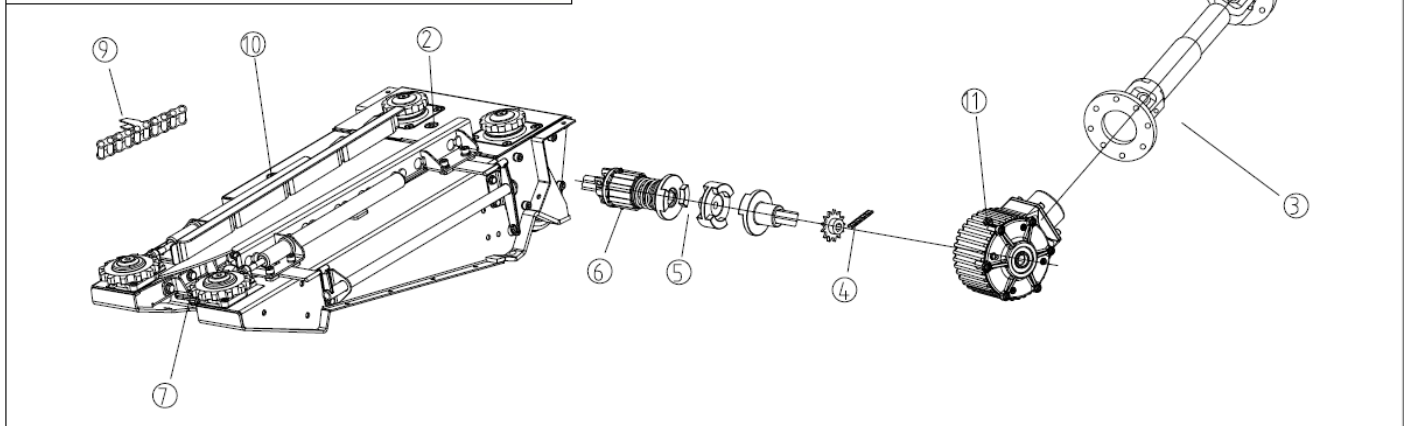


## 16. LUBRICATION CHART



### 16.1 For rigid and folding models.

Lubrication table			
#	type	period	qty.
1	 EP NLGI Grade 2*	250 [h]	look at operator's manual
2	 EP-00 grease	250 [h]	5,5 [pounds] 2,5 [kg]
3	 EP NLGI Grade 2*	250 [h]	look at operator's manual
4	 EP NLGI Grade 2*	50 [h]	look at operator's manual
5	 EP NLGI Grade 2*	50 [h]	look at operator's manual
6	 EP NLGI Grade 2*	250 [h]	look at operator's manual
7	 EP NLGI Grade 2*	250 [h]	look at operator's manual
8	 Gearbox oil	50 [h]	look at operator's manual
9	 Gearbox oil	10 [h]	look at operator's manual
10	 SAE 80W-140**	50 [h]	10,15 [fl.oz.] 0,3 [l]
11	 SAE 80W-140**	250 [h]	30,45 [fl.oz.] 0,9 [l]

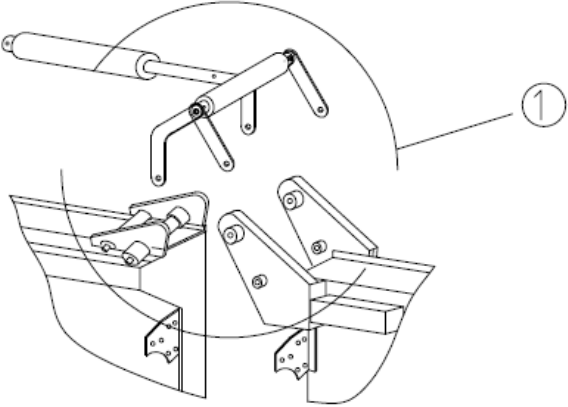
\*high temperature, 1% max molybdenum disulphide, lithium base  
\*\*SAE 85W-140 can be used as an alternative

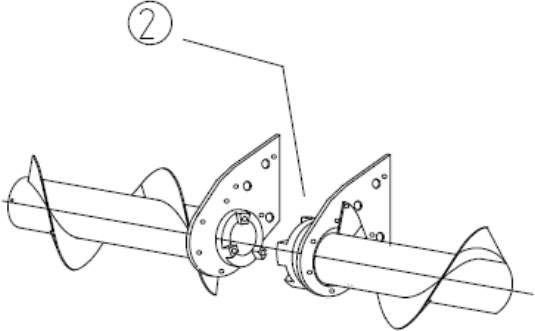


**16.2 Only for folding models.**

Lubrication table			
#	type	period	qty.
1	 EP NLGI Grade 2*	250 [h]	look at operator's manual
2	 EP NLGI Grade 2*	50 [h]	look at operator's manual

\*high temperature, 1% max molybdenum disulphide, lithium base





## 17. **PRE-DELIVERY & PRE-HARVESTING INSTRUCTIONS**

### 17.1 Pre-delivery inspection

Please verify using the checkboxes below that the corn head is properly set up for harvesting. Check the following and adjust if necessary.

✓	Item	Reference
	LIFTING BAR AND OTHER PACKAGING ARE REMOVED	5.2. Other steps following the securing of the adapter on the combine 7. SETUP PROCEDURE AND ADJUSTMENT OF THE CORN HEAD
	LOWER LATCHES PROPERLY CONNECTED TO COMBINE FEEDER	5.1. Mounting the corn heads on the combine
	CORN HEAD IS LEVEL	7.7. Plastic snout adjustment
	DRIVE SHAFTS PROPERLY CONNECTED TO COMBINE FEEDER	5.2. Other steps following the securing of the adapter on the combine
	ELECTRIC AND HYDRAULICS PROPERLY CONNECTED	5.2. Other steps following the securing of the adapter on the combine 15. Electrical schematics
	SNAPPING PLATE ADJUSTMENT	7.4.2. Snapping plate adjustment
	GATHERING CHAIN PROPERLY TENSIONED	7.4.4. Gathering chain adjustment
	DRIVE CHAINS PROPERLY TENSIONED	11.2. Auger
	SNOUTS AND DIVIDERS ADJUSTED AND SECURED	7.7. Plastic snout adjustment
	SAFETY SHIELDS SECURED	-
	GEARBOX LUBRICANT TO PROPER LEVELS	12. INPUT GEARBOXES 14. SNAPPING UNIT
	FOLDING/UNFOLDING OPERATION (IF APPLICABLE)	5.2. Other steps following the securing of the adapter on the combine
	SNAPPING ROLL CLEARANCES	7.4.1. Snapping rolls adjustment 14.1.1. Snapping roll
	ALL NUTS AND BOLTS ARE SECURED	-
	FREE ROTATION OF CHOPPER KNIVES (IF APPLICABLE)	14.1. Gearboxes - Chopper knives
	TEST RUN FOR 30 MINUTES	-

## 17.2 Pre-Harvesting inspection

Please verify using the checkboxes below that the corn head is properly set up for harvesting. Check the following and adjust if necessary.

✓	Item	Reference
	LOWER LATCHES PROPERLY CONNECTED TO COMBINE FEEDER	5.1. Mounting the corn heads on the combine
	CORN HEAD IS LEVEL	7.7. Plastic snout adjustment
	DRIVE SHAFTS PROPERLY CONNECTED TO COMBINE FEEDER	5.2. Other steps following the securing of the adapter on the combine
	ELECTRIC AND HYDRAULICS PROPERLY CONNECTED	5.2. Other steps following the securing of the adapter on the combine 15. Electrical schematics
	SNAPPING PLATE ADJUSTMENT, IF NEEDED CLEANING	7.4.2. Snapping plate adjustment
	SNOUTS AND DIVIDERS ADJUSTED AND SECURED	7.7. Plastic snout adjustment
	FOLDING/UNFOLDING OPERATION (IF APPLICABLE)	5.2. Other steps following the securing of the adapter on the combine
	ALL LUBRICANTS HAVE BEEN CHECKED	11. MAINTENANCE AND LUBRICATION 12. INPUT GEARBOXES 13. DRIVE COMPONENTS 14. SNAPPING UNIT
	TEST RUN (30 MINS)	-



**MacDon Industries Ltd.**

680 Moray Street  
Winnipeg, Manitoba  
Canada R3J 3S3  
t. (204) 885-5590 f. (204) 832-7749

**MacDon, Inc.**

10708 N. Pomona Avenue  
Kansas City, Missouri  
United States 64153-1924  
t. (816) 891-7313 f. (816) 891-7323

**MacDon Australia Pty. Ltd.**

A.C.N. 079 393 721  
P.O. Box 103 Somerton, Victoria, Australia  
Australia 3061  
t.+61 3 8301 1911 f.+61 3 8301 1912

**MacDon Brasil Agribusiness Ltda.**

Rua Grã Nicco, 113, sala 404, B. 04  
Mossunguê, Curitiba, Paraná  
CEP 81200-200 Brasil  
t. +55 (41) 2101-1713 f. +55 (41) 2101-1699

**LLC MacDon Russia Ltd.**

123317 Moscow, Russia  
10 Presnenskaya nab, Block C  
Floor 5, Office No. 534, Regus Business Centre  
t. +7 495 775 6971 f. +7 495 967 7600

**MacDon Europe GmbH**

Hagenauer Strasse 59  
65203 Wiesbaden  
Germany

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