

# **MAXFLEX 930 - 560**

## **Repair manual**

## Validity of manual

This manual applies to the following machine / front attachment:

Front attachment	Type	Identification number	
		from	To
MAXFLEX 930	530	53000011	–
MAXFLEX 930	534	53400011	–
MAXFLEX 770	530	53000011	–
MAXFLEX 770	534	53400011	–
MAXFLEX 620	530	53000011	–
MAXFLEX 560	530	53000011	–

## Using the manual

This repair manual is intended to help maintain constant operational capability. Experience gathered by our service engineers and factory staff has been compiled in this repair manual.

- The sequence of images demonstrates the steps in a repair procedure. The text provides you with the information required for making adjustments, using special tools and further similar information.
- Essential repairs are listed in such a way that even individual and small repairs can be easily found and followed.
- Supplements are added to complement the ongoing technical development of the machines.
- Always compare the setting values and fill quantities with the operator's manual or the system documentation for the relevant machine.

The high value of the machine is ensured by careful maintenance and technical monitoring by the Service Department.

## Text and figures

Photographs and graphics are not machine-specific. Differences are pointed out by notes beneath the figure.

Texts are kept short and are not machine-specific as far as possible. Differences are pointed out by sub-headings.

Text types can easily be distinguished from one another by their formats. A distinction is made between the following formats:

Format	Meaning	Description
Description	Descriptive text	Further information on the subject.
- Procedure instructions	Process	Processes to be carried out one after the other.
<i>Outcome</i>	Result	Result of the processes carried out.

## Document structure based on sub-assemblies

As far as the contents permit, the chapters of this manual are structured according to sub-assemblies. The structure of these sub-assemblies is the same in all chapters.

Different product groups have different sub-assembly structures. CLAAS always takes care to keep these sub-assembly structures identical in all documents.

## Search and find

The relevant subject can be found quickly by means of the recurring sub-assembly structure, using the table of contents or the header of this manual.

In addition, the index of this manual is a useful tool for locating subjects. The index can be found on the last few pages of this manual.

## Directions

Instructions involving the front, rear, right and left refer to the direction of travel. In figures, the direction of travel is indicated by a direction of travel arrow, where required.

## Abbreviations

Abbreviation	Description
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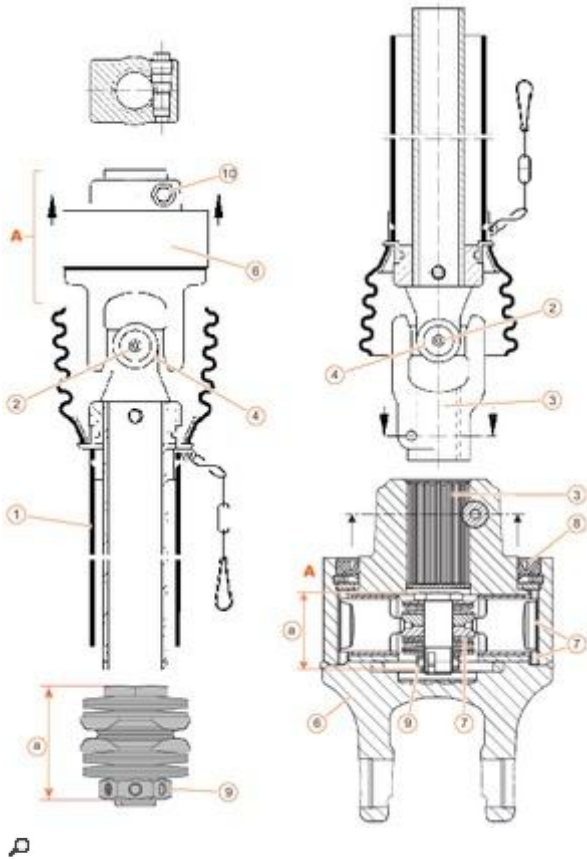
## Universal drive shaft main drive with cam-type cut-out clutch

Applies to:

MAXFLEX 930

MAXFLEX 770

### Technical specifications



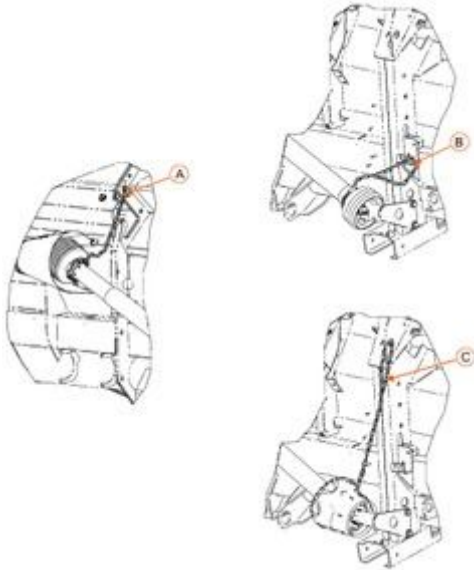
	Value	CCN	Remark / designation	
1			Main drive universal drive shaft (GW 1)	
2			Supply the grease nipples with grease as specified in the Operator's Manual.	
3			Coat the tooth profile with Molykote G-n plus.	
4			Insert bearing bushings with CLAAS AGRIGREASE EP 2.	
6			Cam-type cut-out clutch	
7			Coat the spring assembly and the locking cam with Molykote G-n plus.	
8			Insert seal with CLAAS AGRIGREASE EP 2.	
9			When adjusting the nut by 1 turn: <ul style="list-style-type: none"> <li>- Change of check dimension (a) by 1 mm</li> <li>- Change of tightening torque by 265 Nm</li> </ul>	
10	50 Nm		Tightening torque of taper lock	
a	43 ± 0.3 mm		Check dimension Corresponds to a cut-out torque of 900 ± 50 Nm.	

Value	CCN	Remark / designation
Tightening torque values not specified, see "Introduction / Tightening torques" chapter		

## Installation instructions

All assembly processes are carried out on the universal drive shaft with a cam-type cut-out clutch.

## Suspension points of chains



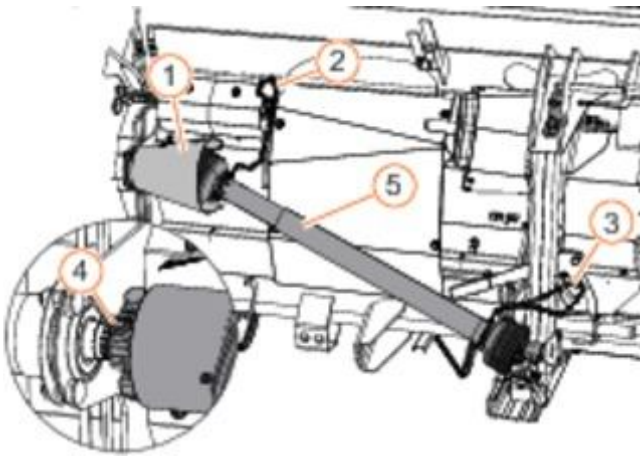
	Cutterbar width	Left	Right
Standard universal drive shaft	30 ft - 25 ft	A	B
Slope universal drive shaft	30 ft - 25 ft	A	C

## Work preparation

Utilities:

- ▶ Lubricants:  
Grease as specified in the Operator's Manual  
CLAAS AGRIGREASE EP 2 - 00 0147 437 X  
Molykote G-n Plus - 00 0177 571 X
- ▶ Sealing agents and glue:  
Loctite 262 - 00 0666 284 X

## Removal



- ▶ Remove the safety device (1).
- ▶ Unhinge chain at (2).
- ▶ Unhinge chain at (3).
- ▶ Unscrew bolt (4).
- ▶ Rotate tube (5) by 60° and remove it.



- ▶ Unscrew bolt (1).
- ▶ Remove universal drive shaft (2).

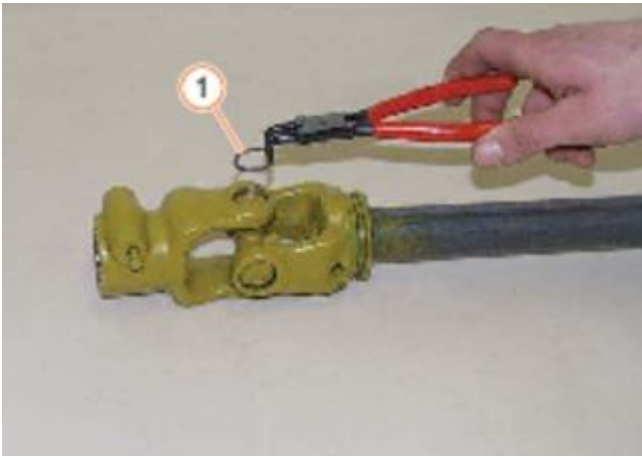
### Disassembly



- ▶ Unscrew bolt (1).
- ▶ Rotate tube (2) by 60° and remove it.



► Remove slide ring (1).



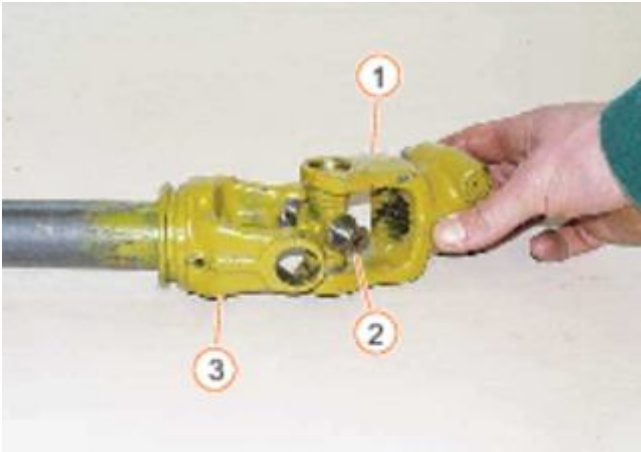
► Remove circlips (1).



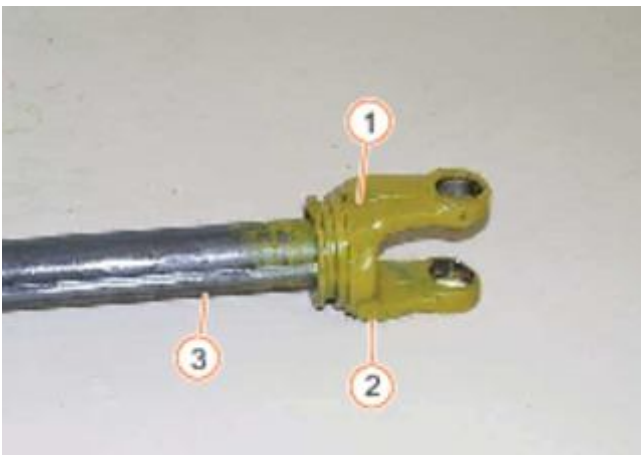
► Drive the bearing bushings (2) up with slight blows on yoke (1).



- ▶ Clamp the bearing bushing (1).
- ▶ Remove bearing bushing (1) by means of slight blows on the yoke (2) and rotating movements.



- ▶ Remove yoke (1) with centre cross assembly (2) from yoke (3).



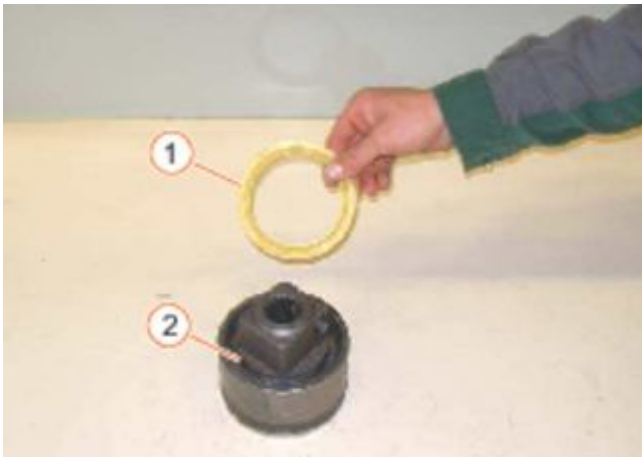
- ▶ Drive out pin (1).
- ▶ Pull yoke (2) off of shaft (3).



- ▶ Place centre cross assembly (1) on the bearing pins.
- ▶ Using slight blows on the yoke (2), drive out the bearing bushings (3).
- ▶ Clamp the bearing bushing (3).
- ▶ Remove bearing bushing (3) by means of slight blows on the yoke (2) and rotating movements.

### Disassembling the cam-type cut-out clutch





- ▶ Remove sealing ring (1).
- ▶ Remove circlip (2).

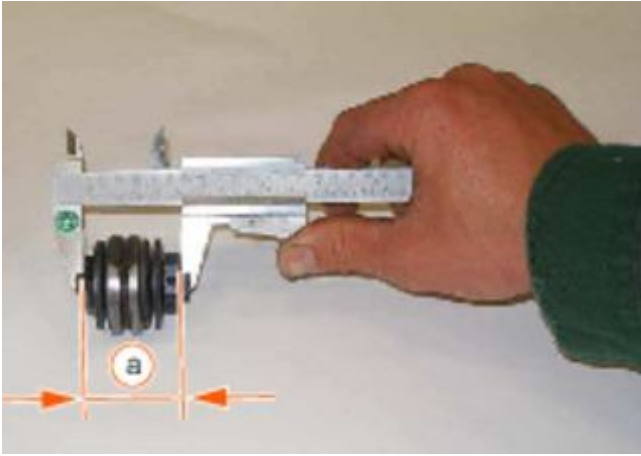


- ▶ Remove shims (1).
- ▶ Remove supporting ring (2).
- ▶ Remove hub (3).



- ▶ Take the locking cam (1) out of hub (3).
- ▶ Remove the complete spring assembly (2) from the hub (3).

### Assembling the cam-type cut-out clutch



- ▶ Check dimension (a).  
Universal drive shaft main drive with cam-type cut-out clutch
- ▶ In the event of deviation from check dimension (a), replace the spring assembly.



- ▶ Insert the complete spring assembly (1) into the hub (2).  
Universal drive shaft main drive with cam-type cut-out clutch
- ▶ Insert locking cam (3) into the hub (2).





- ▶ Insert hub (1) completely into the clutch housing (2).  
Universal drive shaft main drive with cam-type cut-out clutch
- ▶ Observe the installation position of locking cams (3)!



- ▶ Insert supporting ring (1) and shims (2).

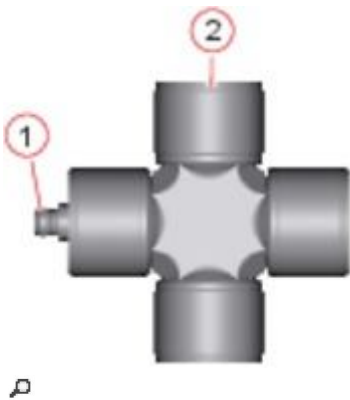


- ▶ Insert circlip (1).
- ▶ Install seal (2).  
Universal drive shaft main drive with cam-type cut-out clutch

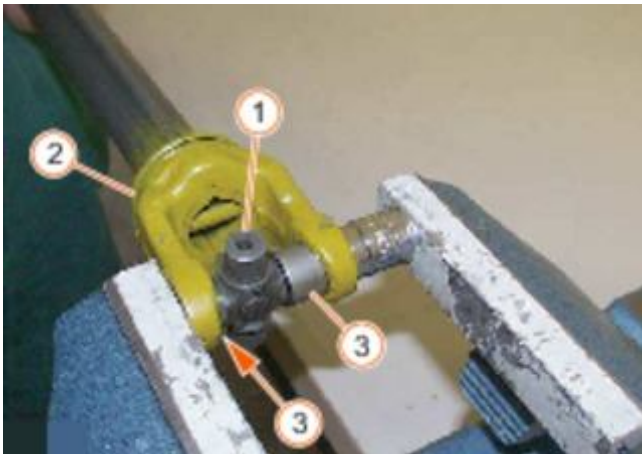
## Assembly



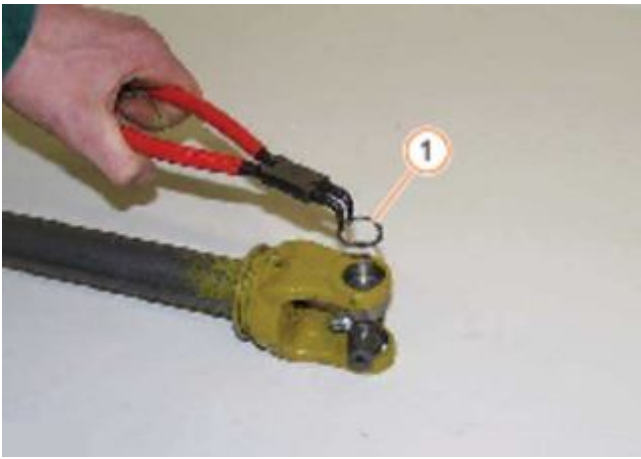
- ▶ Ensure that bearing bushing (1) is equipped with needles (2).
- ▶ Check if sealing rings (3) are damaged.
  - ▶ Ensure that sealing ring (3) is inserted into bearing bushing (1).



- ▶ Screw the grease nipples (1) into the cross assembly (2).



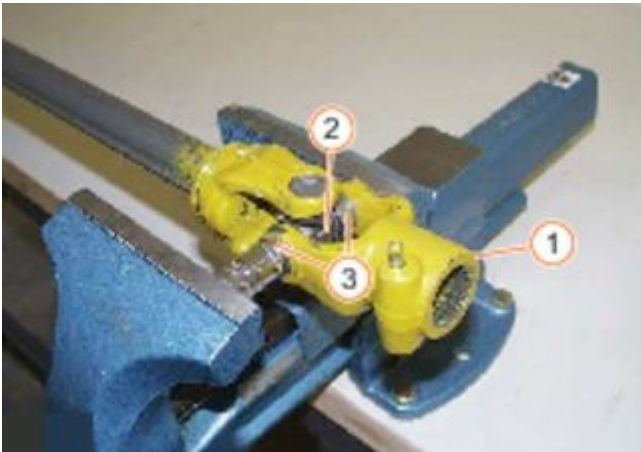
- ▶ Insert the centre cross assembly (1) into the yoke (2).
- ▶ Press in bearing bushing (3) so that the centre cross assembly (4) makes contact at yoke (2) at (6).
  - ▶ Ensure that when pressing in, no needles fall out of the bearing bushing (3) or are damaged.



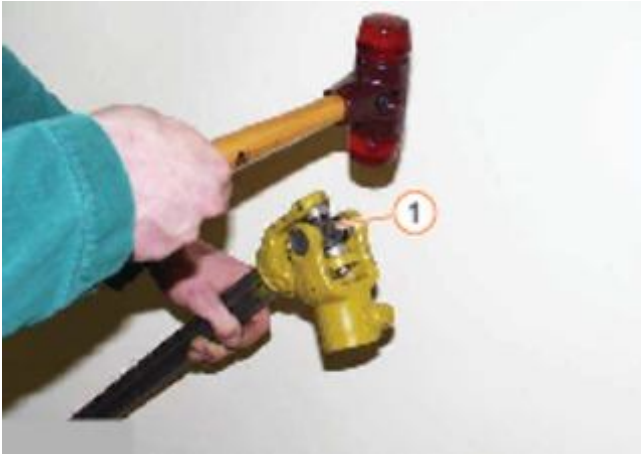
- ▶ Insert circlip (1).



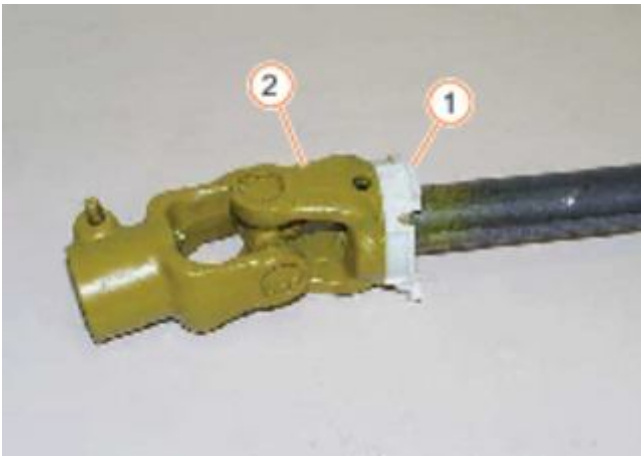
- ▶ Press in opposite bearing bushing (1).
  - ▶ Ensure that when pressing in, no needles fall out of the bearing bushing (3) or are damaged.
- ▶ Secure bearing bushing (1) with a circlip.



- ▶ Slide yoke (1) over the centre cross assembly (2).
- ▶ Press in bearing bushing (3).
  - ▶ Ensure that when pressing in, no needles fall out of the bearing bushing (3) or are damaged.
- ▶ Secure bearing bushing (3) with a circlip.



- ▶ Relieve the tension on the joint by applying slight blows on the forks. Use a plastic-tip hammer.
- ▶ Check if the bearing rotates smoothly.
- ▶ Grease the centre cross assembly (1).  
Universal drive shaft main drive with cam-type cut-out clutch



- ▶ Insert slide ring (1) into the groove of yoke (2).



- ▶ Slide on tube (1) and secure it with bolt (2).

## Installation

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