

Ziegler Harvesting Installation Instructions

FLAT CORN AUGERS



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1. INTRODUCTION

This operating manual contains the essential information you need to follow when fitting the **Ziegler Flat corn augers** to the harvester.

Please observe all the safety instructions set out in these installation instructions.

Intended use:

Attachment side: right & left (alternatively 1-sided). Transmission: hydraulically driven.

During the harvest, the augers pick up downed maize or lying plants more easily and transport them efficiently to the intake chute. This reduces harvest losses.

How the auto contour system works:

- Feeding: You dump corn into the hopper at the bottom of the auger.
- Rotation: the motor drives the central shaft and the spiral nozzle attached to it at high speed.
- Pushing: As the metal spiral spins, its curved edges catch the corn kernels and slide them along the inside of the stationary tube.
- Discharging: The corn travels upward (or horizontally) until it reaches the top exit point, where gravity drops it into a truck, bin, or silo.

Key benefits of using side augers:

- Reduced grain loss: Side augers (particularly vertical ones on rapeseed tables) cleanly cut and direct the tangled crop into the header, preventing seeds from falling onto the ground.
- Uniform feed: They prevent the crop from accumulating at the edges of the header, ensuring a stable and smooth feed of stalks to the central auger or conveyor.
- Handling lodged crops: They help to effectively pick up heavily lodged, tangled or damp stalks.

1.1 Validity:

These installation instructions are intended for the **Ziegler Flat corn augers** unit.

1.2 Contact partner:

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2. SAFETY

2.1 Marking of information in the operating instructions

The safety information provided in these operating instructions (failure to follow them can result in the endangerment of persons) is marked with general danger symbols:

2.2 Marking of the danger warnings

Danger!

	DANGER! – Nature and source of the danger! Impact: Danger to life or of serious injuries. ➤ Measures for danger prevention
---	---

Warning!

	WARNING! – Nature and source of the danger! Impact: Injury, serious damage to material. ➤ Measure for damage limitation
---	--

Caution!

	WARNING – Nature and source of the danger! Impact: Material damage ➤ Measure for damage limitation
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Please note

	PLEASE NOTE – Nature and source of the danger! Impact: Economic use of the machine ➤ Measures to be performed
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Contents:

- Right and left side augers
- Scraper
- Hydraulic motor
- Hydraulic cable set
- Hydraulic cable connections and, where applicable, plugs – combine-specific
- Cable clamps and ties for cable routing
- Spare parts for assembly (bearings, brackets, couplings, bolts, etc.)
- Multi-coupler.

2.3 Overview of the Flat corn augers.

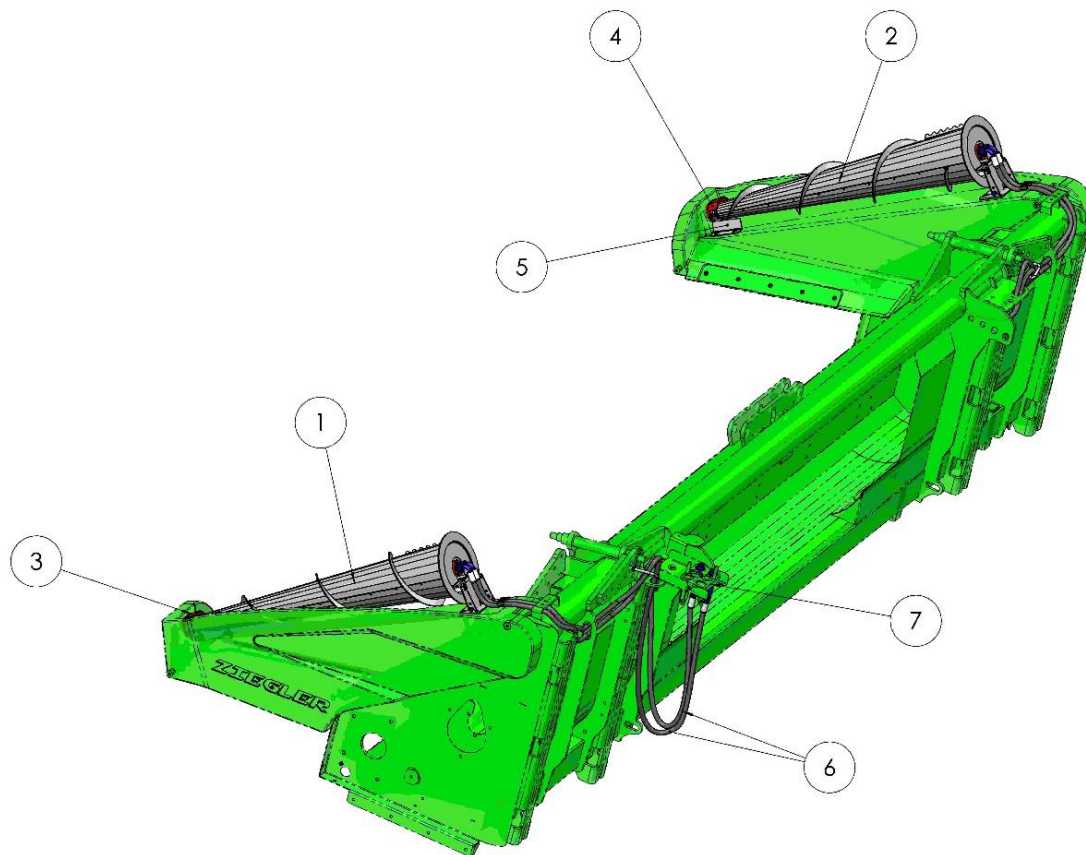


Fig. 1

- 1 Right silage maize auger
- 2 Left silage maize auger
- 3 Right shield
- 4 Left shield
- 5 Scraper
- 6 Hydraulic hose kit
- 7 Mounting set multi-coupling system

2.4 Preparation for assembly



Fig. 2

All the parts for assembling the side augers must be prepared



Fig.3

The right and left side augers are assembled in the same way.

The side augers are fitted on both the left and right-hand sides of the header

2.5 Bearing assembly with a protective shield



Fig.4



Make sure the bearing is fitted correctly: position the bearing so that the side with the retaining ring faces the inside of the harvesters!



Fig. 5

Securing the bearing to the reaper using the screws

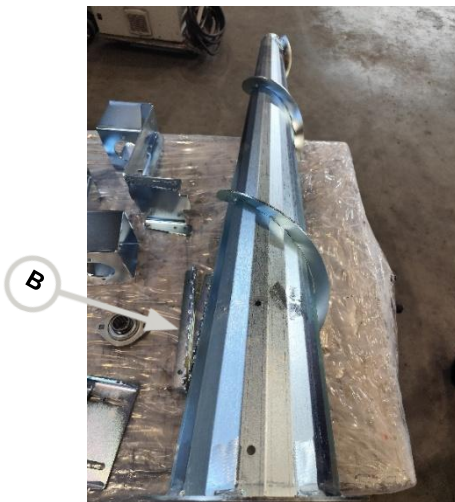


Fig. 6

Fitting the comb (toothed plate)



Fig. 7

Secure the comb with screws and check that it is fitted correctly



The comb (toothed plate) must be fitted in the direction of rotation of the side auger!

2.6 Assembly of the auger bracket



Fig. 8

Mount the bearing on the auger bracket



Fig. 9

Prepare the screws and nuts for securing the bearing

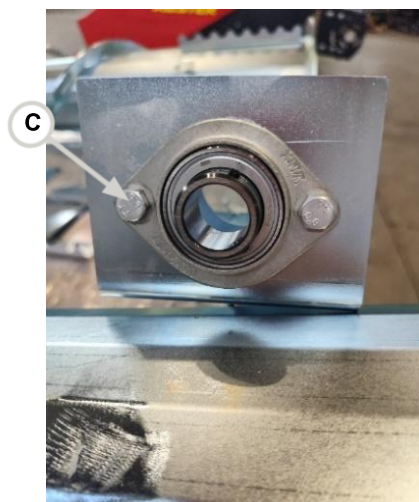


Fig. 10

Secure the bearing



Fig. 11

Fitting the bracket inside the side auger

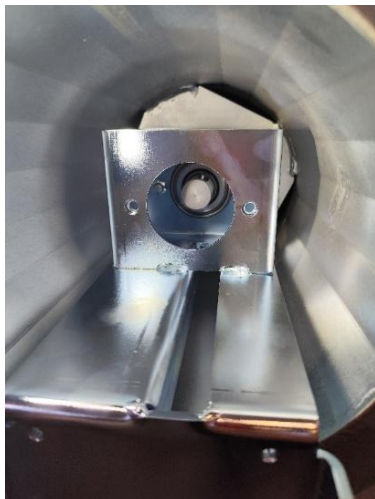


Fig.12

Define the spline (adjusting spring) and secure the bracket in place

2.7 Coupling assembly

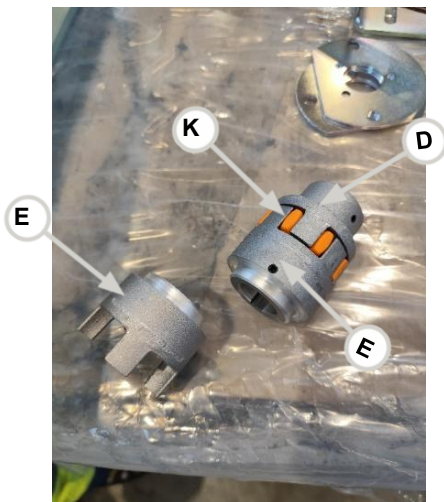


Fig. 13

The coupling consists of three parts: the front section (E), the damper (K) and the rear section (D).

Disconnect the front section (E) from the coupling



Fig. 14

Insert the front part of the coupling (E) into the auger



Fig. 15

Fitting the damper (K) into the grooves at the front of the coupling

2.8 Installation of the hydraulic motor



Fig. 16

Prepare the hydraulic motor



Do not allow dirt to get into the hydraulic motor!



Fig. 17

Remove the spacer washer



Fig. 18

Fit the spacer plate and secure it with a spacer washer until it clicks into place

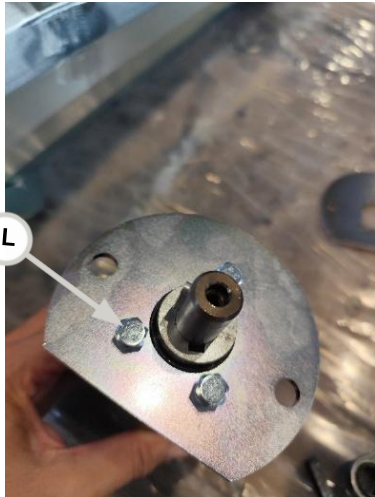


Fig. 19

Secure the intermediate plate using the screws (L)

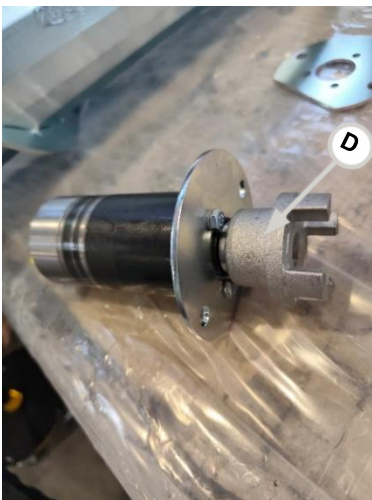


Fig. 20

Connect the hydraulic motor to the rear of the coupling (D)

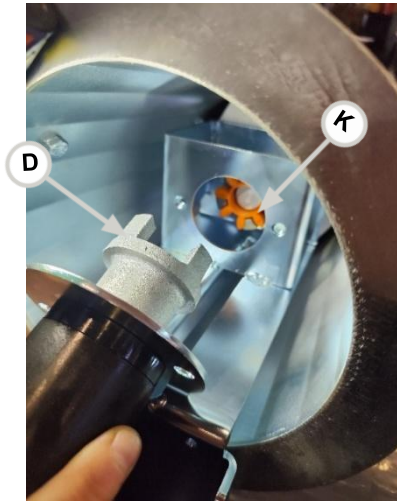


Fig. 21

Join all the parts of the coupling together



Fig. 22

Secure the bracket to the auger with screws



Fig. 23

Prepare the protective shield and the screws for fixing it in place



Fig. 24

Secure the protective shield to the auger



Fig. 25

Fit the bracket to the harvester frame and secure it using the screws, nuts and washers



Fig. 26

Auger installation position (on the left and right of the harvester)



Fig.27

Fitting the auger to the harvester



The assembly and installation of the side auger on the other side is carried out in the same way!



Fig. 28

Securing the auger to the bracket on the harvester



Fig. 29

Adjust the clearance between the bearing and the auger using the hexagon screw; the bearing should fit snugly onto the shaft, either by hand or with light taps from a rubber mallet (first insert the hexagon screw into the grooves from the inside, then secure the bearing)



Fig.30

Final fastening of the auger to the harvester

2.9 Fitting of hydraulic hoses

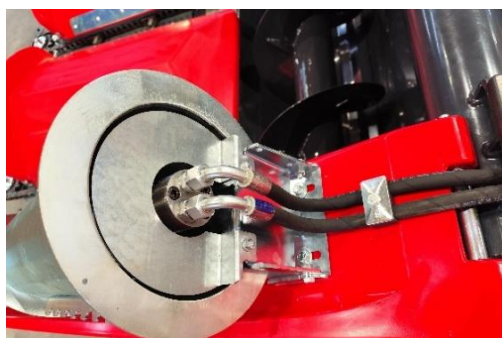


Fig. 31

Connecting the hydraulic hoses to the auger



Do not mix up the hoses!

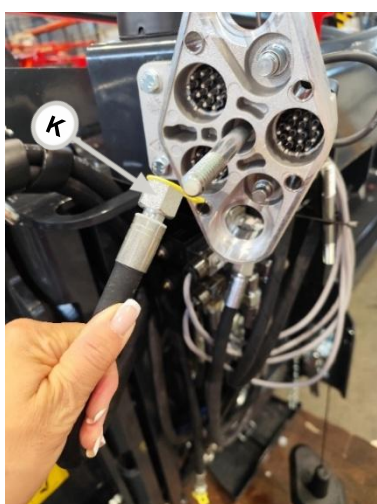


Fig. 32

Connecting the hydraulic hoses to the multi-coupler connectors

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