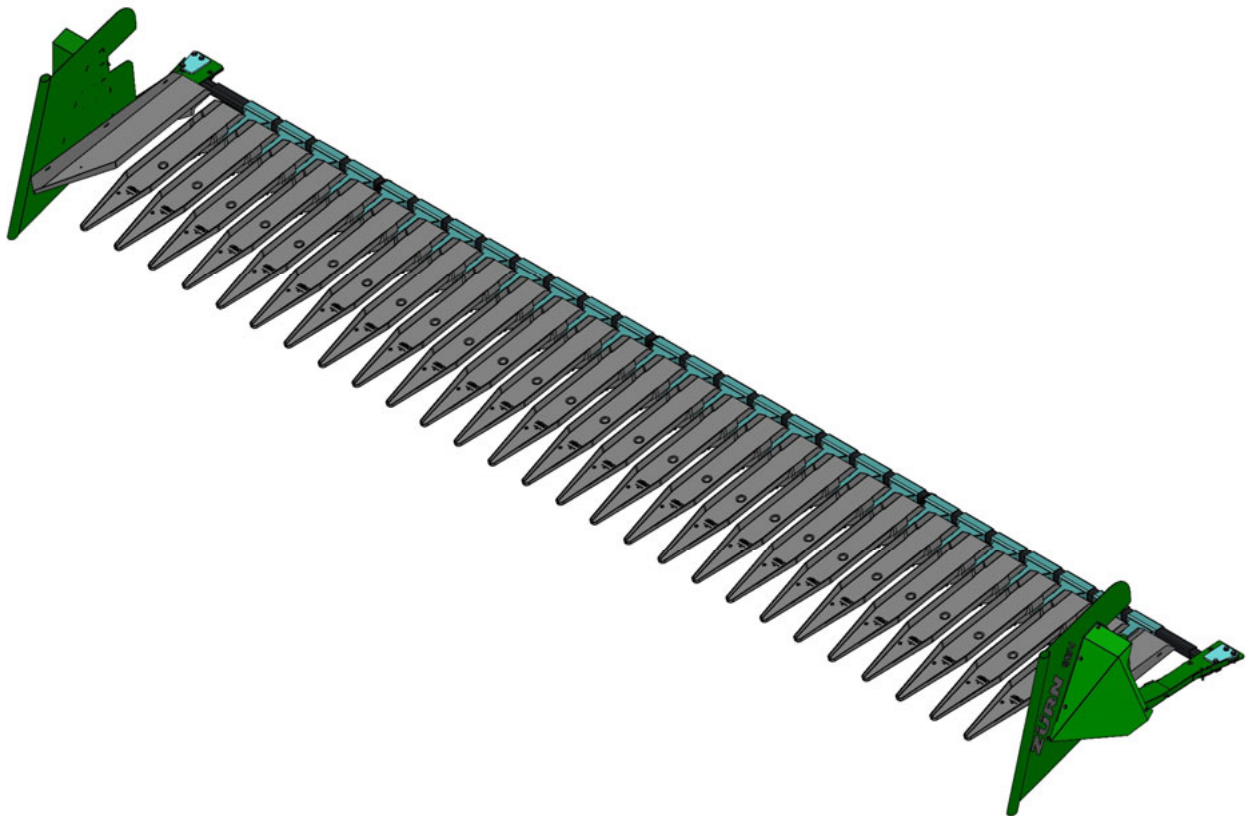


FITTING INSTRUCTIONS AND PARTS LIST

SBV Sunflower Extension



For John Deere / Zürn series 700PF
cutting platforms

Masthead

Title: Fitting instructions and parts list sunflower extensions
Manufacturer: Zürn Harvesting GmbH & Co. KG
Schöntal
Applicable to: SBV for cutting platforms 700PF
Print number: 41048

3rd issue 2024 (Version C)

Editorial date 01/2024

© Zürn Harvesting GmbH & Co. KG

Author: Naiome Köllisch

All rights reserved, also applies to the translation.

No part of this operating manual must be reproduced in any form (print, photocopy or any other process) or processed, duplicated or distributed using electronic systems without the written permission of the Zürn Harvesting GmbH & Co. KG, Schöntal.

We reserve the right to make technical amendments.

Printed on paper made from chlorine-free and acid-free bleached pulp.

Foreword

This machine is designed only for the usual application in agricultural work or similar activities. Any other use beyond this is deemed improper use of the machine. The manufacturer accepts no liability whatsoever for damage resulting from improper use; the risk will be borne solely by the user. Proper use also includes complying with the operation, maintenance and service conditions specified by the manufacturer.

Read this operating manual thoroughly to familiarise yourself with the correct operation and maintenance of the machine and to prevent injuries or damage to the machine. Not doing so can result in injuries or machine damage. This operating manual and the safety labels on the machine may also be available in other languages: please enquire at your dealership.

This operating manual is part of the machine and should be handed over to the purchaser if the machine is re-sold.

Dimensions specified in this operating manual are metric. Use only appropriate parts and bolts. Different spanners are required for metric bolts and bolts with imperial (inch) dimensions.

The designations "left" and "right" are with reference to the forward direction of the machine.

Enter the serial number in the first section of the operating manual. Please record all numbers accurately. In case of theft, these numbers can be important for tracing the machine. Your dealer also needs these numbers when you order spare parts. It is a good idea to keep a second record of these numbers in another location.

Your dealer has carried out an inspection of the machine prior to delivery. A further inspection should be carried out by your dealer after the first 20 to 50 hours of operation in order to ensure the best possible performance for the machine.

This machine must only be used, serviced and repaired by persons who are familiar with it and who have been briefed about its hazards. The relevant accident prevention regulations and other generally recognized rules and laws for safety, occupational health and road traffic must also be observed. Unauthorized changes to this trailer release the manufacturer from liability for any resulting damage.

Contents

Masthead	2
Foreword	3
Contents	4
Type Plates	6
Safety Instructions	7
Safety instructions for technical staff and operators	8
Hydraulic system	9
Universal drive shafts	10
Ejection of stones and foreign objects	11
Precautions for use and shunting	12
Precautions for maintenance and repair work	12
Precautions for travelling on public roads	13
Modifications to the machine	14
Welding	14
Bolted assemblies	14
Using original parts	15
Waste prevention	15
Safety decals	16
Assembly instructions	20
Assembling the supporting bars	20
Mounting the brackets	21
Attaching the side plates	23
Preparing the header for attaching the sunflower extension	24
Removing the side knife drive	24
Attaching the sunflower extension to the header	27
Attaching the sunflower extension to the header	28
Fitting the pan holders	30
Installing the central support	32
Mounting the central pans	33
Attaching the outboard pans and aligning the side plates	38
Attaching the side plates and the supporting arms	42
Installing the reel boards	44
Installing the central support	46
Attachment and removal of the assembled sunflower extension	47
Removing the extension from the header	47
Attaching the extension to the header	47
Parts list	48
Right side plates	48
Left side plates	50
Supporting bars	53
Reel plates	54
Central pan	56
Outboard pans left hand and right hand	57
Accessory pack – Premium Flow 700	58

Reel support.....	60
Central support assembly	61
Locking units right and left	62
Torques for Metric Bolts	63
General terms of guarantee	64
EG- Konformitätserklärung	66
Contacts	67

Type Plates

Please make a note of the type designation and serial number of your machine here. This information must be given to the authorised dealer when ordering spare parts or making guarantee enquiries.

Type: _____

Serial number: _____



Safety Instructions

Explaining the symbols used in this document

This symbol indicates a potentially hazardous situation which, if not avoided, may lead to personal injury.



This symbol indicates special rules or procedures that need to be observed to avoid machine damage.



This symbol indicates special technical instructions.



The illustrations in this manual are used as examples and may differ from the product. All information and data are subject to change by the manufacturer alone without prior notice.

Safety Instructions

Safety instructions for technical staff and operators

Before using the machine, carefully read and observe all safety rules listed in this manual and observe all decals on the machine.

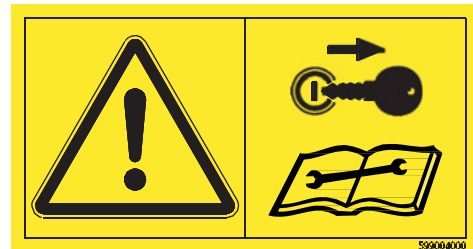
Before starting work, make sure that you are familiar with all mechanisms and controls and their functions. During operation is too late!

Never leave the machine to anyone who has not been trained in using and operating it properly.

Contact your Zürn sales partner if you have problems understanding certain parts of this manual.



Always apply the handbrake on the header transporter and shut off the engine of the towing vehicle before you work on the transporter. Remove the ignition key and wait until all moving parts have come to a complete stop.



Wear close-fitting clothes! Loose clothing can easily get caught in moving machine parts.

Wear protective gear that suits the work at hand (gloves, footwear, goggles, helmet, ear protectors, etc.).

Any ropes, cables, linkages, etc. of remote-controlled mechanisms must be routed and installed in such a way that they do not cause unintentional machine action leading to accidents and damage. This applies to all transport and working positions.

Before each use verify that nuts and bolts are tight - especially those that attach tools such as blades. Retighten if necessary.

Before you use the machine make sure all safety features and guards are in place, in protective position and operable. Immediately replace any inoperable safety features.



Safety Instructions

Hydraulic system

Attention! The hydraulic system is under high pressure. Maximum operating pressure: 200 bar (2900 psi).

Before connecting hydraulic hoses to the hydraulic system of the machine, make certain that it is not pressurised. Before disconnecting hydraulic hoses, depressurise the hydraulic system.

In order to prevent connecting the hydraulic hoses to the wrong connections, colour code the hoses and their respective connections without fail. Risk of injury through reverse function because of reversed connections (e.g. raising instead of lowering).

Inspect the hydraulic hoses at regular intervals. Hydraulic hoses must always be replaced after 5 years at the latest. If hydraulic hoses are found to be damaged or worn, they must be replaced immediately. The replacement hydraulic hoses must comply with the technical requirements specified by the manufacturer.

Only use the appropriate resources when looking for leakages. Protect body and hands against pressurised fluids.

Oil escaping under pressure can puncture the skin and cause severe injuries. In the event of injury, seek medical attention immediately. There is a risk of infection.

Before carrying out any work on the hydraulic system, lower the machine to the ground, depressurise the hydraulic system, switch the engine OFF, remove the ignition key and wait until all moving parts have come to a complete standstill.



Safety Instructions

Universal drive shafts

Only use universal drive shafts that have been provided by or prescribed by the manufacturer.

The protective tube and protective cone on the PTO shaft and all PTO shaft protective devices on the header must be in place and in good condition.

Worn or damaged protective parts must be renewed immediately. Defective protective parts or an unprotected universal drive shaft can cause severe or even fatal injuries.

Always wear close-fitting clothing to prevent being caught up in a rotating universal drive shaft.

Before connecting or disconnecting a universal drive shaft and before any intervention in the header, uncouple the main drive, switch the engine OFF, remove the ignition key and wait until all moving parts have come to a complete standstill.

When using universal drive shafts with and overload or free-wheel clutch, always connect the overload or free-wheel clutch to the machine.

Always make certain that the universal drive shaft is connected and latched in position correctly.

Before switching the PTO shaft ON, make certain that the speed and direction of rotation of the attachment conform with the speed and direction of rotation of the machine specified by the manufacturer.

Before switching the PTO shaft ON, make certain that there are no persons or animals within the machine's danger zone. Never switch the PTO shaft ON or engage it if the forage harvester's motor is switched ON.



Safety Instructions

Ejection of stones and foreign objects

To increase the safety of the driver, only use the header with an enclosed driver's cab. The area to be mown must be free of foreign objects. Stony or rocky ground should not be mowed. If this is unavoidable, additional safety measures must be taken, e.g.:

- Fit Macrolon panels to the floor, sides and rear of the driver's cab or fit finely meshed grilles to the outside.
- Adjust the cutting height such that any contact with stones or rocks is excluded.

Never switch the header ON when persons are standing in the vicinity of the machine.

Foreign objects can be ejected from the machine, even if the machine is in proper use. Stones and other foreign objects that are caught up by rotating parts can be thrown over great distances. Exclude all persons from the danger zone.

The guard plates and protective aprons lessen the risk of stones and foreign objects being ejected. It must therefore be ascertained that all protective devices are fitted and in perfect condition when the header is in use.

Check the state of the protective aprons at regular intervals. Worn, damaged or missing parts must be replaced immediately.



Safety Instructions

Precautions for use and shunting

Before changing over from transport to working position and vice versa, ensure that no persons are within the manoeuvring zone of the machine.

Precautions for maintenance and repair work

Before carrying out any work or intervention, shut off the engine, remove the ignition key, wait until all moving parts have come to a complete standstill and apply the parking brake. Depressurise the hydraulic system.

Prop up and secure any machine parts that are raised for maintenance or repair.

Disconnect all electric lines from the towing vehicle before working on the electric system or before welding on the transporter.

Repairs on parts under strain or pressure (springs, accumulators, etc.) must be carried out solely by specialist staff who have the necessary qualification and special tools.

Wear protective gear that suits the work at hand (gloves, footwear, goggles, helmet, ear protectors, etc.).

Do not weld, solder or use flame cutters near pressurised liquids or highly flammable products.

Only use original spare parts to ensure your personal safety and correct functioning of the machine.

We strongly recommend to have the machine and its parts and fastening elements checked by your authorised Zürn Harvesting sales partner after each season.



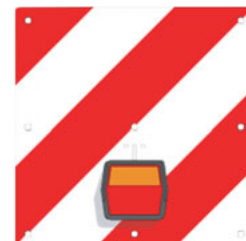
Safety Instructions

Precautions for travelling on public roads

Dimensions

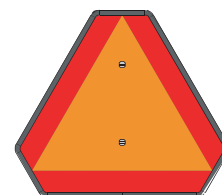
The combination must comply with local requirements relating to maximum dimensions for travel on public roads. In case of doubt, seek information beforehand from the relevant authorities.

If the combination exceeds the maximum dimensions and yet has to be transported on public roads, contact the local authorities to obtain a special permit before you travel on public roads.



Transport position

Before travelling on public roads, place and secure the machine on a suitable transporter, following the instructions in this manual.



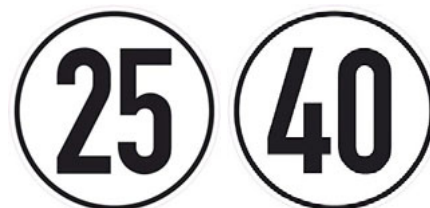
Lights and warning devices

Before travelling on public roads, ensure that all required lights and warning panels are in place.

Check these devices for proper functioning and visibility. Replace any missing or damaged parts immediately.

Maximum speed

Always comply with the current regulations regarding speed limits on public roads.



When travelling on public roads, always comply with the relevant regulations.

Before travelling on public roads and before each use check the header transporter and the towing vehicle for road safety and operational safety!



Safety Instructions

Modifications to the machine

Any modifications to the machine and its optional features must be approved in writing by the manufacturer. The warranty and product liability will be voided, if such modifications are carried out without the written approval of the manufacturer.

The manufacturer's liability refers to the original condition in which the vehicle is delivered to the country of destination as contractually agreed by the manufacturer.

Any unauthorised modifications to this machine render any manufacturer liability for any consequential damage null and void.

Welding

Ensure that any type of welding is carried out by qualified and certified welders. Welding must not affect the warranted properties of the steel structure. In case of non-compliance, the manufacturer shall consider the weldment as an unauthorised modification to the transporter.

Bolted assemblies

Observe the property class when fastening and replacing bolts and nuts (see the table in this manual and the parts list).

After assembling the transporter, tighten all bolts to the proper torque.

For special torques read the assembly instructions or ask the manufacturer.

For any torques of regular bolts refer to the table.

Self-clinching bolts and nuts must be replaced by new ones after they have been removed during a repair.

This is necessary as nuts with a self-clinching fastener lose their holding power with each reuse.

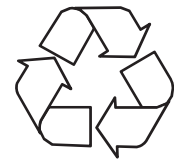
Safety Instructions

Using original parts

Only use original parts sourced from the manufacturer. This is mandatory. Using third-party parts voids the manufacturer warranty including for consequential damage resulting from this.

Waste prevention

Never pour environmentally hazardous products (oils, greases, filters, etc.) into a sink or empty them onto the ground or in other spaces. Never burn or throw away used tyres. Have waste disposed of by specialised disposal companies.



Safety Instructions

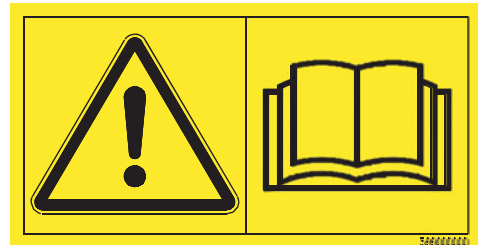
Safety decals

Safety decals are placed in various locations on the machine. Always follow these instructions! The decals alert operators to potential hazards and provide rules of practice to cut out any risk of an accident.

Keep the safety decals clean and legible and replace them immediately when damaged, worn or lost.

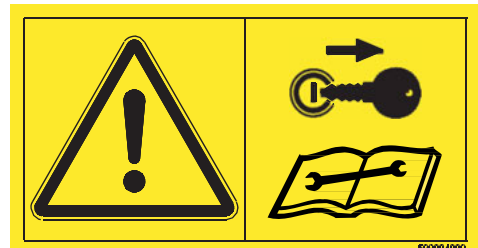
Operating instructions

The operating instructions contain all the necessary information for the safe use of the machine. To avoid the risk of accidents, read the operating instructions carefully and follow all instructions.



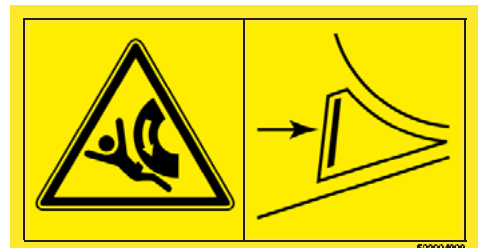
Working on and intervening in the header

Before carrying out any type of work on or intervention in the header, disengage the clutch in the driveline, shut off the engine, remove the ignition key, wait until all moving parts have come to a complete standstill and apply the parking brake.



Parking the transporter

Secure the transporter with a wheel chock before removing it from the towing vehicle or parking it.



Safety Instructions

Placing the header on the transporter

When placing the header on the transporter, keep clear of the danger zone between the header and the transporter.



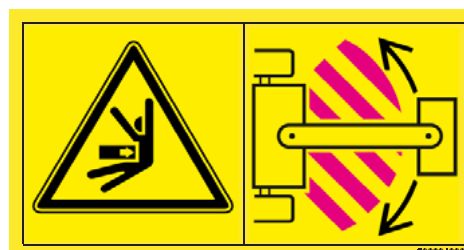
The header is lifted

Keep clear of the header swing area when placing it on the transporter.



Risk of crushing

Keep clear of the drawbar unit and all steering elements (e.g. turntables, steering rods) while operating the machine. Risk of being crushed at a full lock turn.



Retighten the wheel bolts

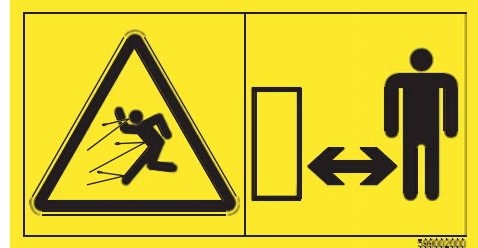
Retighten the nuts after the first journey.



Safety Instructions

Ejection and foreign objects

Stones and other foreign objects can be thrown out over long distances. The protective devices must always be in place and in a perfect state. Always keep a safe distance from the machine.



Do not open guards

Do not open or remove protective devices during operation or while the engine is running.



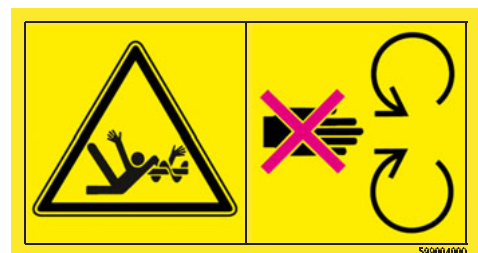
Do not open guards

Do not open or remove protective devices during operation or while the engine is running.



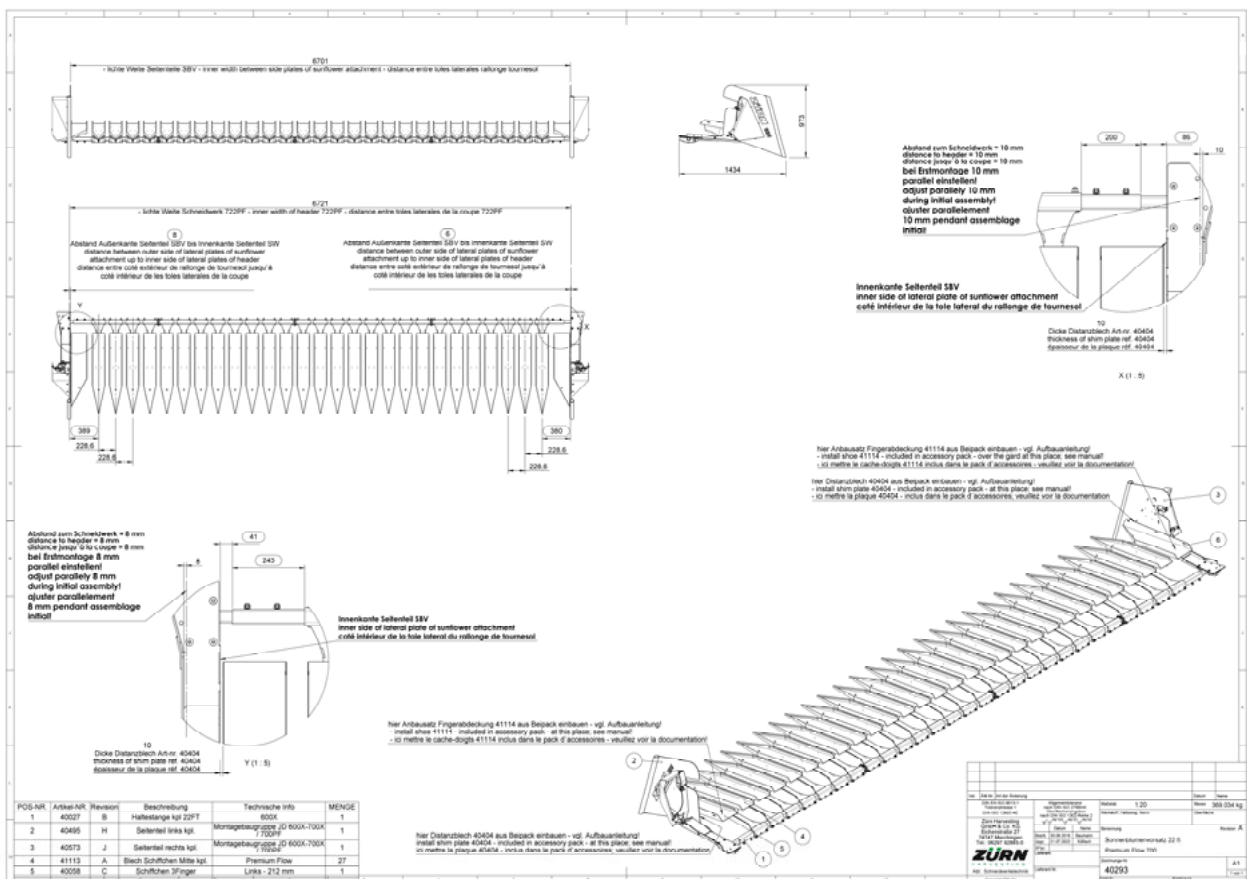
Rotating Auger

Never reach into the rotating auger.



Important information

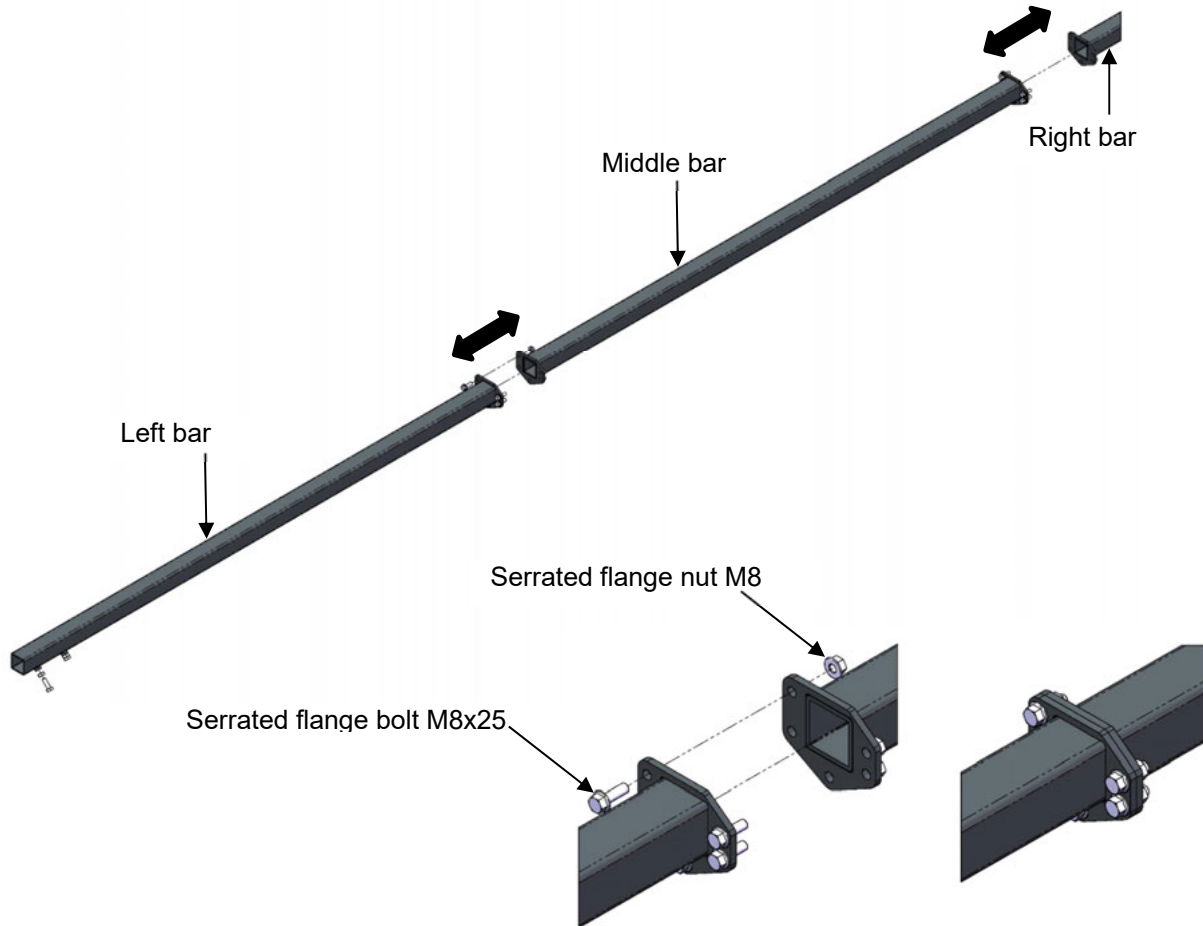
Each sunflower attachment is accompanied by a laminated overall drawing of the product in A3 format. This overall drawing contains important dimensions and instructions for the installation of the sunflower attachment to the header. These must be taken into account for correct and successful installation.



Assembly instructions

Assembling the supporting bars

The individual sections of the supporting bars are bolted together as shown in the illustration below. The flanges are attached with five M8x25 serrated flange bolts and M8 serrated flange nuts.



IMPORTANT!

Ensure the flanged bar ends mate exactly. Put the supporting bars on several stacks of pallets, about waist-high, placed next to each other. This makes it easier to retract the header with the combine.



Depending on the header length, the number of supporting bars and the length of the right supporting bar vary. For numbers and dimensions please refer to the tables on pages 52 to 53.



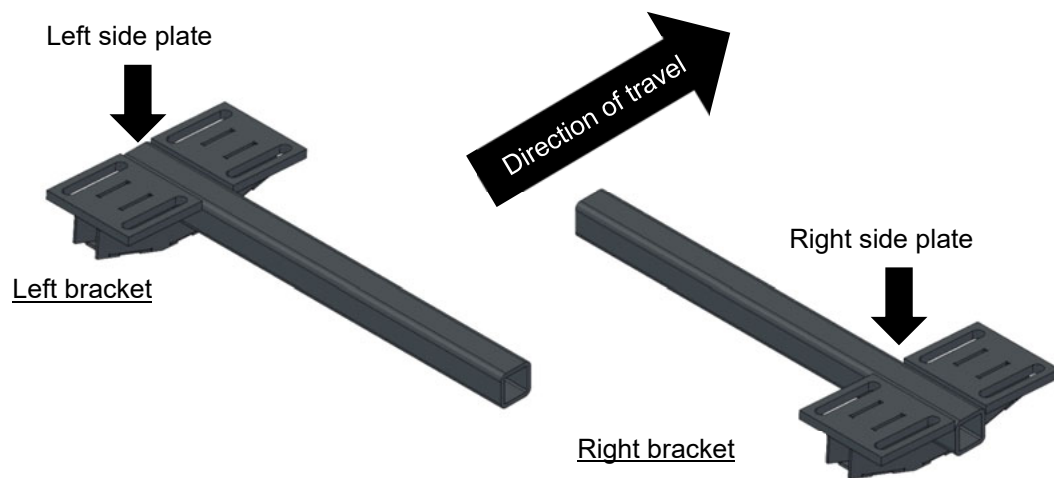
Assembly instructions

Mounting the brackets

Slide the two brackets on to the right and left end of the assembled retaining bar.
The brackets must be arranged at a 4° angle in the direction of travel.
To identify the left / right bracket, use the arrow for orientation (see the comment below).

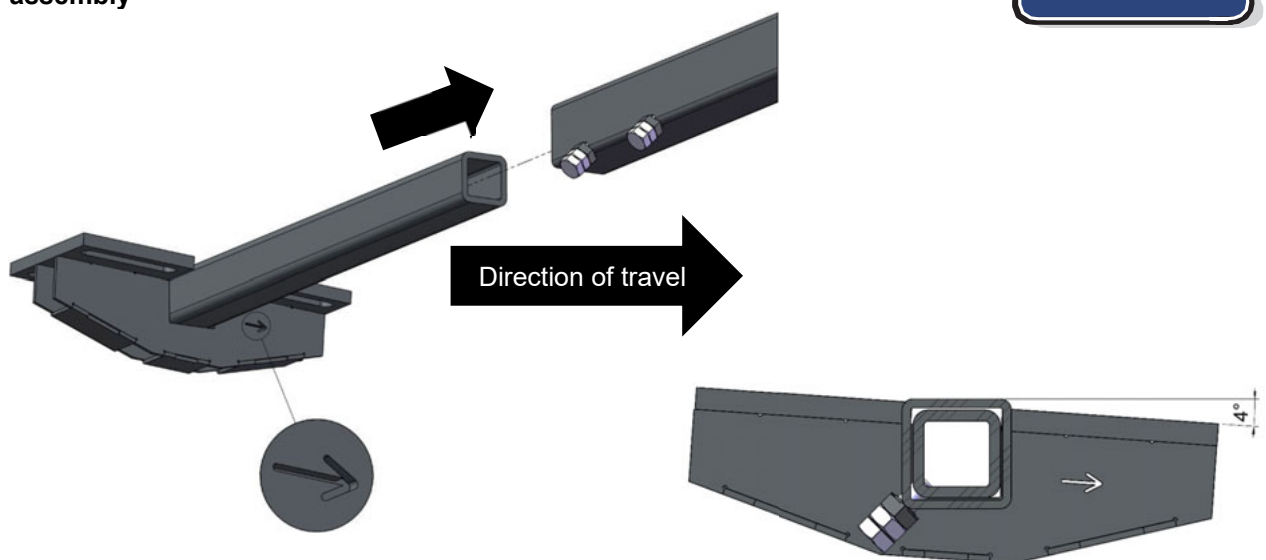
The left bracket is attached with two M10x30 hex bolts and M10 nuts as specified (see table on page 22).

The right bracket is attached but not bolted down yet.



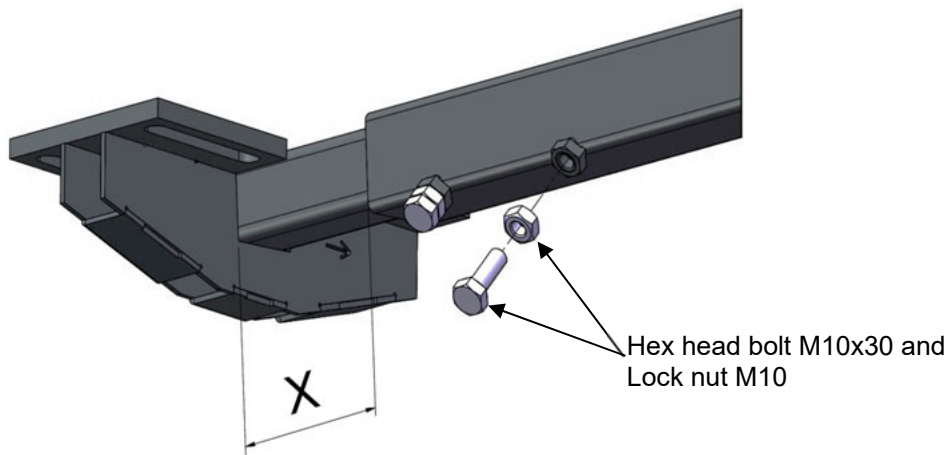
Note!

The arrows inside the brackets are for orientation and must point in the direction of travel for correct assembly



Assembly instructions

Mounting the brackets



Cutting width	722PF	725PF	730PF	735PF
"X" measure	133mm	136mm	133mm	59mm

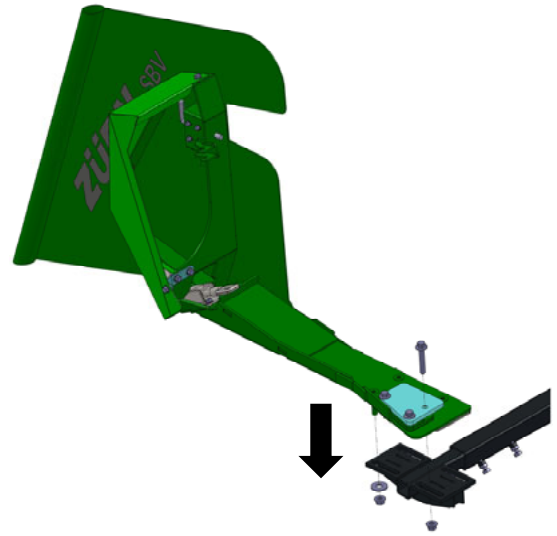
Assembly instructions

Attaching the side plates

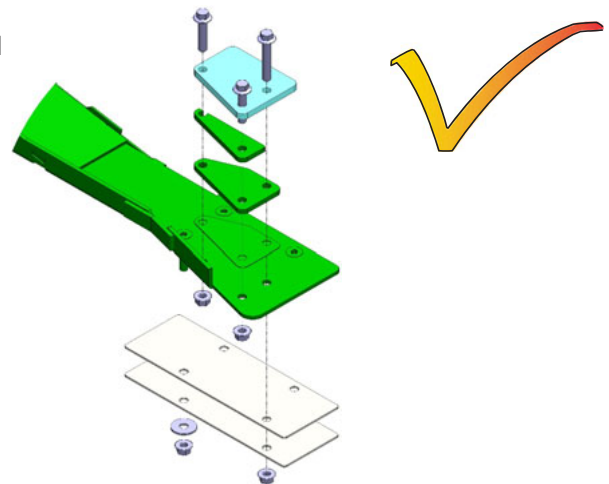
The side plates are attached to the brackets.

To do this, insert the welded countersunk bolts on the side plates into the slotted holes. Then push them all the way to the front.

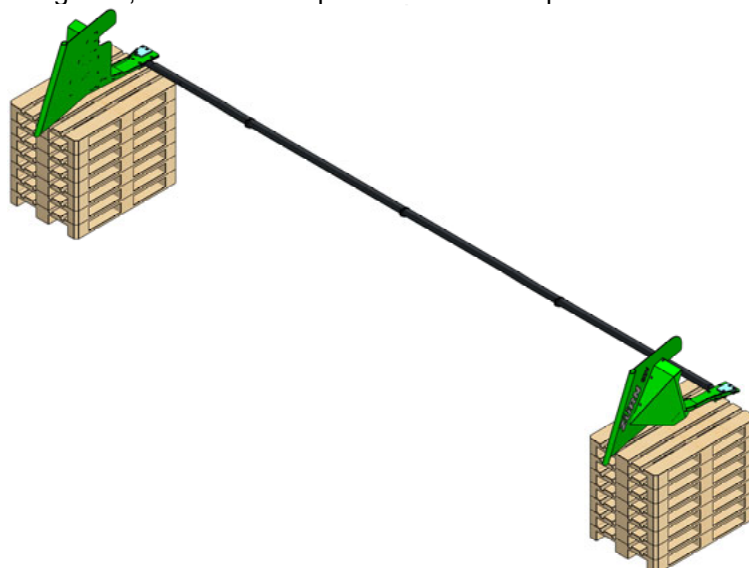
Then fit the washers and nuts without tightening them so you can still move the side plates.



Please note the structures of the spacer and clamping plates when attaching the side plates.



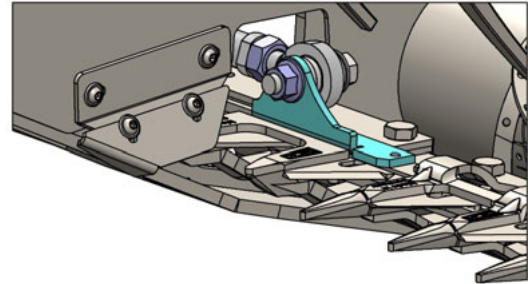
The assembled supporting bars, arms and side plates on stacks of pallets



Assembly instructions

Preparing the header for attaching the sunflower extension

Removing the side knife drive

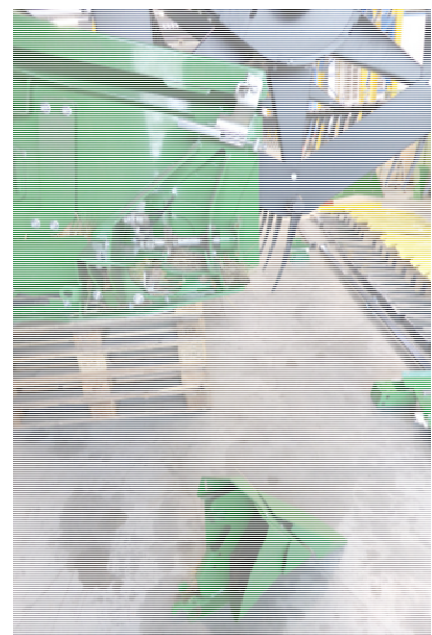


Disconnect the right knife drive from the knife drive angle and remove the drive angles from the knife. Then refit the knife sections.



Remove the dividers or side knives

Remove the divider tips or side knives from the header.

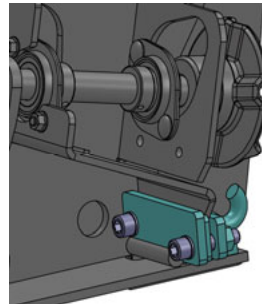
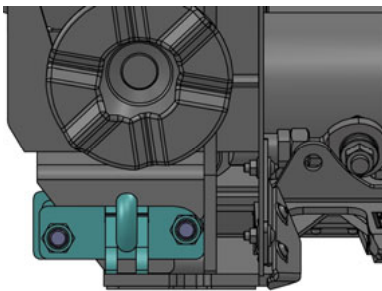
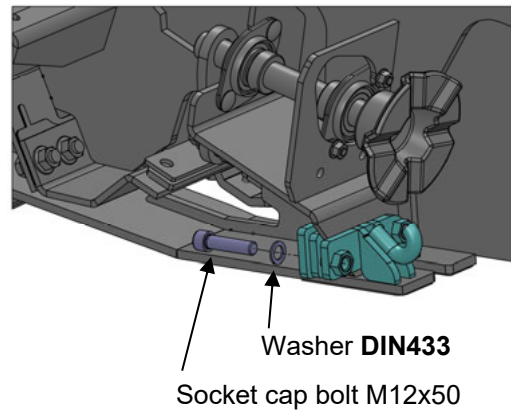
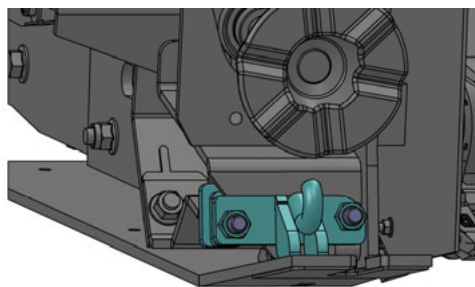


Assembly instructions

Preparing the header for attaching the sunflower extension

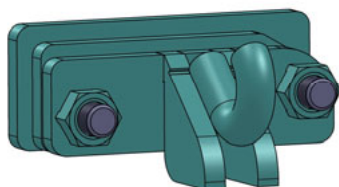
Installing the locks

Attach the locking units to the plate of the knife gearbox using two M12x50 socket cap bolts and washers. Do not tighten the screws yet. This allows the locking units to be adjusted.

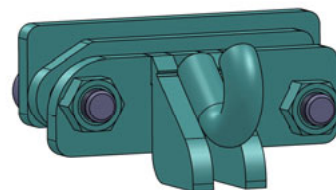


Please note:

There is a separate locking unit for the left and right hand side. Make sure that the hook on each unit is always closer to the header side plate.



Locking unit, right side



Locking unit, left side

Assembly instructions

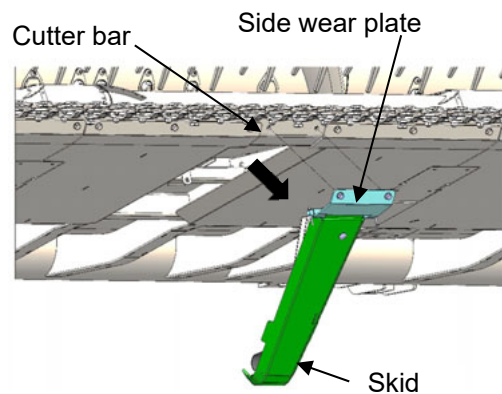
Preparing the header for attaching the sunflower extension

Attaching the central supports

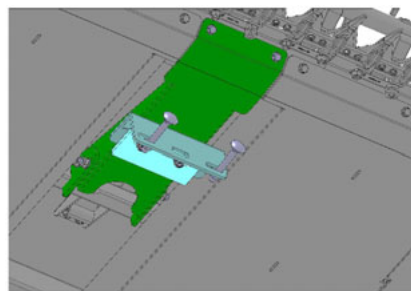
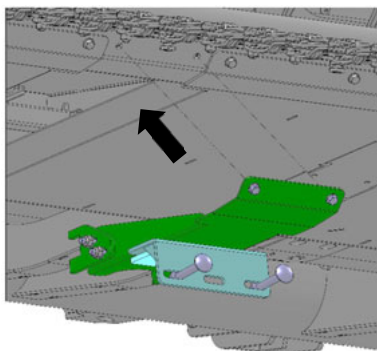
Secure the feeder house so it cannot drop. To do this, place the circlip around the ram that operates the feeder house.



Remove the front wear plate from the two central skids. To do this, remove the two bolts in the cutter bar and the nuts at the rear of the wear plate (above the skid).



Insert the two central supports supplied, bolt them to the front of the cutter bar and tighten the adjustable clamps.



The mounting angle of the central support moves freely in the slotted holes. It will be fixed in its final position only when the sunflower extension is attached.

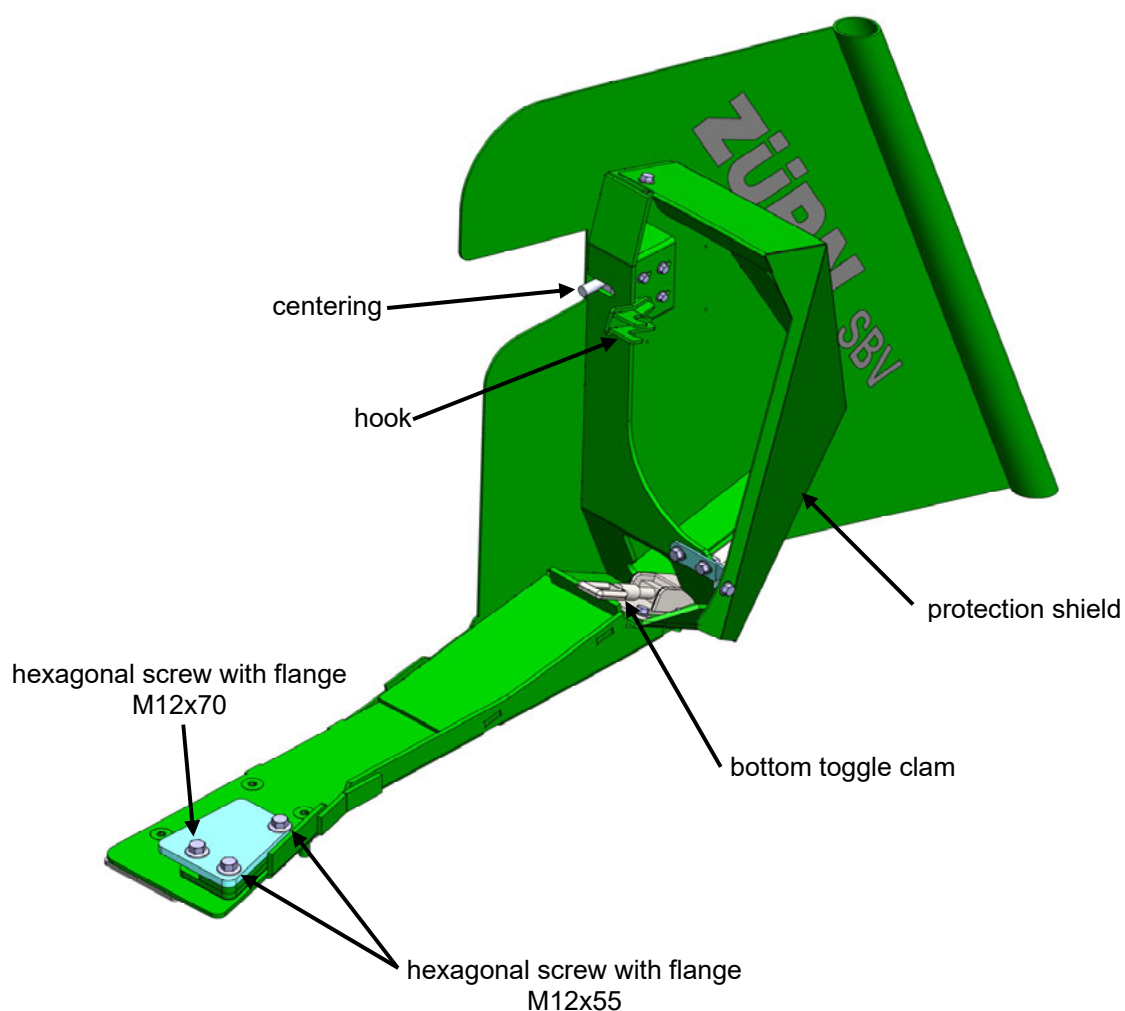


Assembly instructions

Attaching the sunflower extension to the header

Remove the circlip from the hydr. cylinder that operates the feeder house. Then drive the header into the side plates of the sunflower extension. In order for you to be able to safely retract the two attached side panels with the header, it may be necessary to support the front side parts with wood in order to adapt their position to the ground at the most favorable angle of the header for retraction.

John Deere 700PF



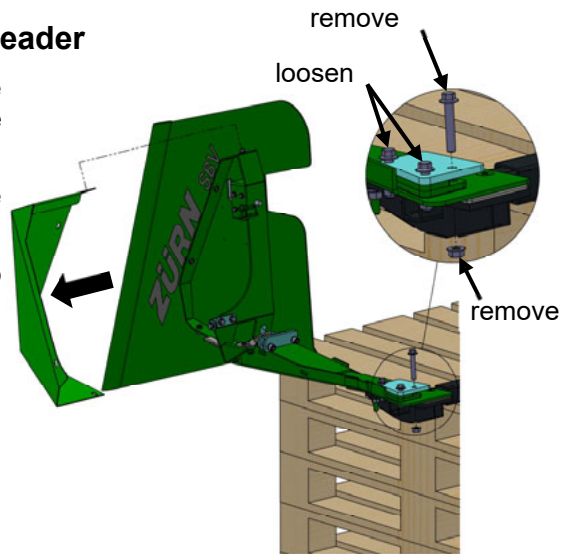
Assembly instructions

Attaching the sunflower extension to the header

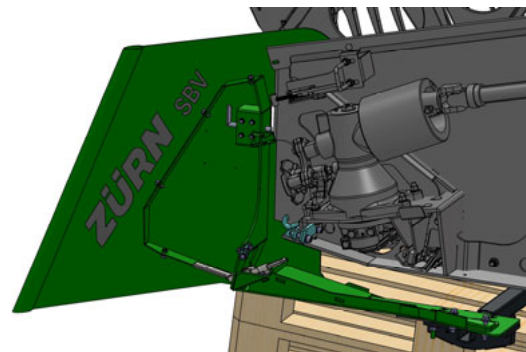
Before you start mounting, you must remove the factory-installed cornering socket screw with flange M12x70 together with the nut.

Then loosen the two hexagonal screws with flange M12x55 so that the clamping blocks can be moved.

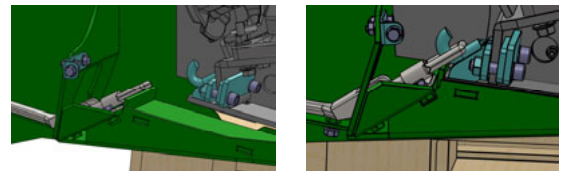
Now remove the protection shield of the side panel to enable barrier-free installation.



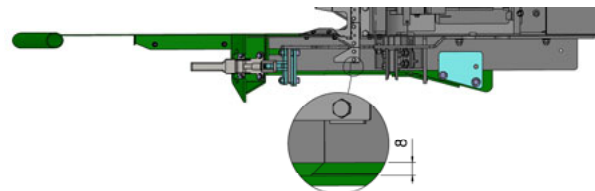
Now move the two side parts of the sunflower attachment relative to the side parts of the header according to the information on the laminated overall drawing, which is included with the sunflower attachment.



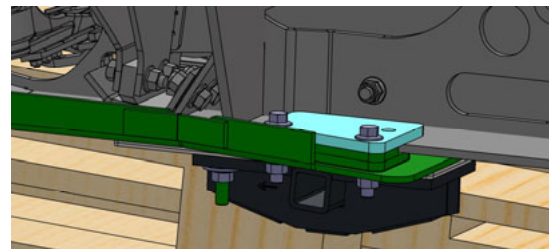
Start with the left side in the direction of travel. Slide the side panel of the sunflower attachment so far back until it is on the skid plate of the header's side panel.



Now create a parallel distance of 8 mm between the outer edge of the skid plate of the header's side panel and the lower vertical wall of the sunflower attachment side panel.



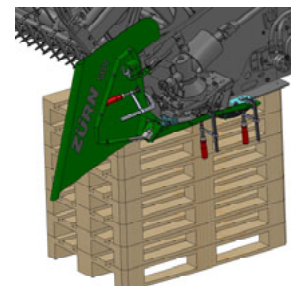
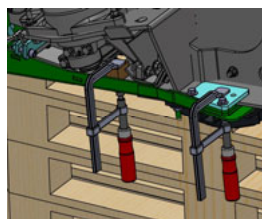
Slide the two spacer plates 40956 and 40957 into the space between the base plate of the sunflower attachment's side panel and the header and clamp these parts to the header using the clamp block 40494 and two hexagonal screws with flange M12 x 55.



Assembly instructions

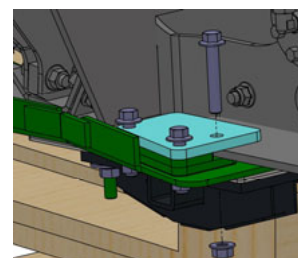
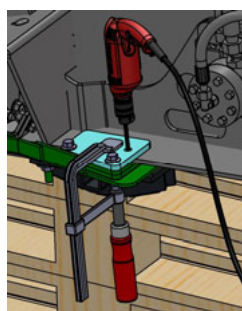
Attaching the sunflower extension to the header

Do not close any quick-release fasteners yet, but clamp the sunflower attachment's side panel with the header by means of screw clamps. Pay attention to the adherence to the parallel distance of 8 mm listed above and to the concern of the sunflower attachment's side panel on the skid plate as described above.



In the base plate of the sunflower attachment's side panel there are 3 holes Ø13 mm in the rear part. Drill the hole, which is covered by the skid plate of the header's side panel.

Now screw the sunflower attachment side panel through the clamping block and the spacer plates to the header using the M12x70 hexagonal screw removed at the beginning.



Now close the lower quick-release fastener and align the locking unit centrally to it. Tighten the screws of the locking unit and adjust the preload of the quick release fastener appropriately.



lower quick release fastener

Close the upper quick release fastener and adjust its preload appropriately. Next, slide the centering lever forward. The screw clamps can now be removed.



upper quick release fastener

On the right side of the header, proceed with the right panel of the sunflower attachment in the same way as described above. Here too, the parallel distance between sunflower attachment's side panel and the bottom plate of the header is 8 mm. This value must also be adhered to on the right side.

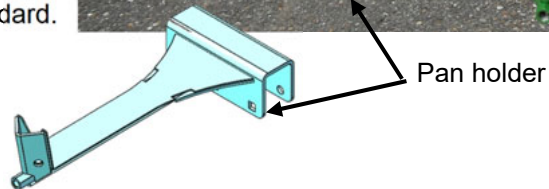
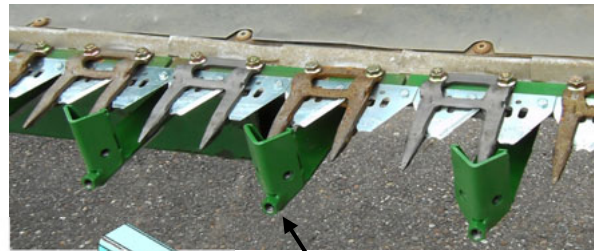
Assembly instructions

Fitting the pan holders

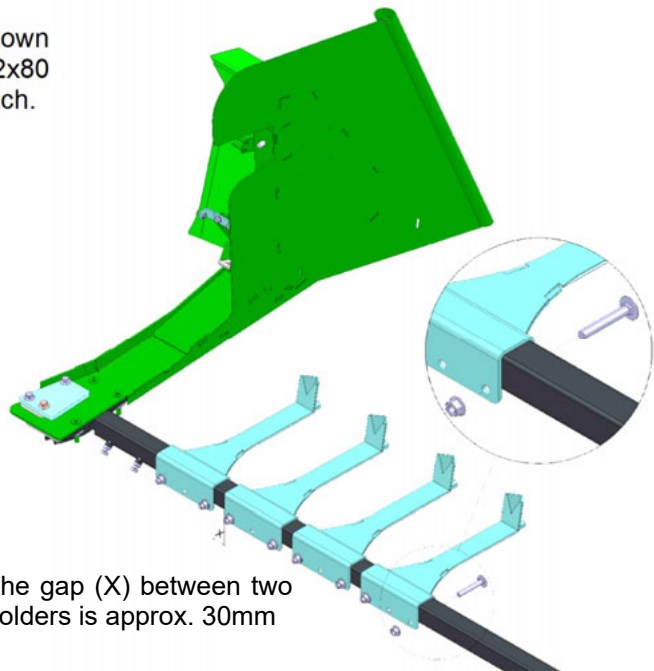
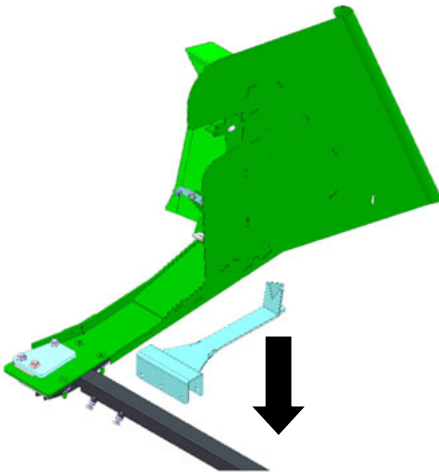
Raise the header to a comfortable height and prop the supporting tube in the middle. Secure the feeder house so it cannot drop. To do this, place the circlip around the ram that operates the feeder house.



Next, starting on the left side, attach the pan holders to the supporting bar. To do so, position the supporting bar in the direction of travel so that the fingers do not collide with the pans. The position of the first pan holder from the left can be found in the laminated overall drawing included in the scope of delivery. Be sure to adhere to this measure. It is essential to comply with this standard.



Place the pan holders on the supporting tubes as shown in the illustration and attach them with two M12x80 carriage bolts and two M12 serrated flange nuts each.



Note!

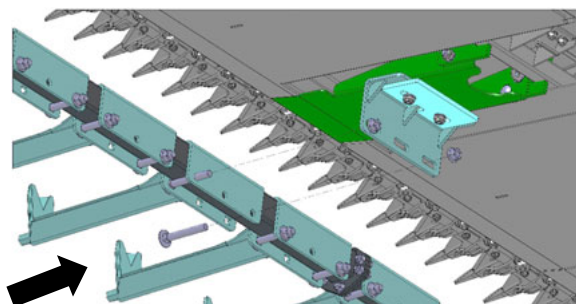
Do not yet tighten the serrated flange nuts on the pan holders



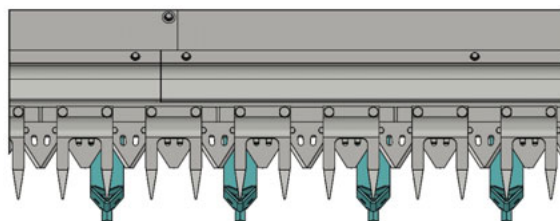
Assembly instructions

Attaching the sunflower extension

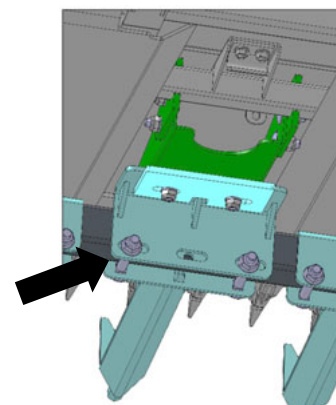
Next, push the supporting bar with the pan holders attached to it under the header. Push it as far as possible and align the pan holders in such a way that the guards contact the pan holder recesses in the middle. The distance must be approx. 5 mm. Contact should be avoided.



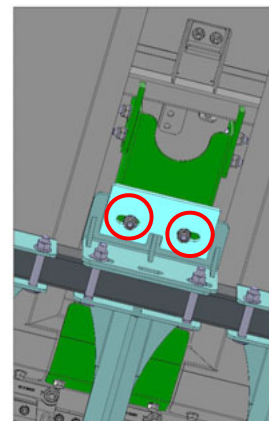
The front of the supporting arms is flush with the supporting tubes on the side plates. Next, clamp these with the M10x30 bolts and the lock nut supplied to both side plates and the right end of the supporting bar as explained on page 21.



The mounting angle of the central support moves freely. Push it forward, align it with the pan holder and then bolt it down with the two M12X95 carriage bolts and two M12 lock nuts supplied.



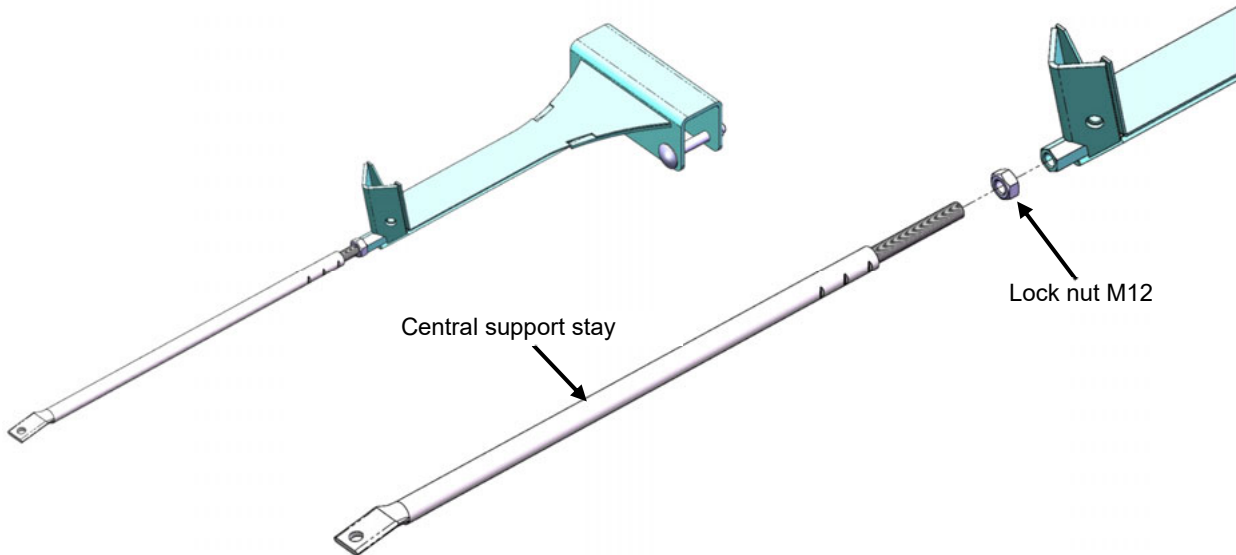
Then bolt the mounting angle to the central support using the M10x30 carriage bolts in place. See page 26.



Assembly instructions

Installing the central support

Attach the stays (*with the lock nut attached*) to the pan holders.

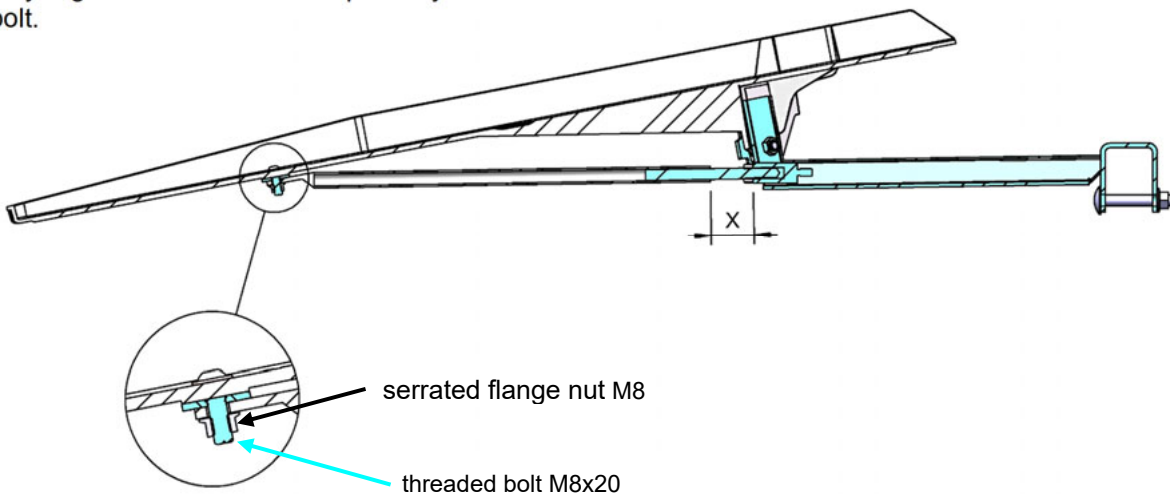


Note!

Do not tighten the M12 lock nut until the pans are fitted.



Test on one pan to see how deep the stay must be inserted into the pan holder ("X") before the hole in the stay aligns with the hole in the pan so you can insert the bolt.

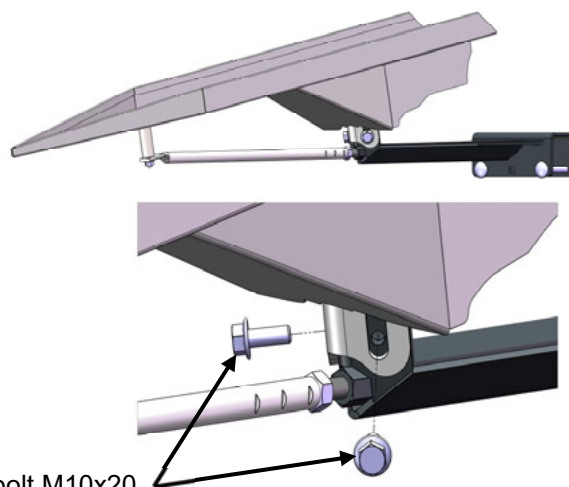


Assembly instructions

Mounting the central pans

The pans are attached to the pan holders with two M10x20mm serrated flange bolts. Adjust the height so that the guard shoes rest on the guards.

To increase the stiffness of the pans during the harvesting process, align them so that they are attached as far as possible to the front of the pan holder and have contact with the header's table at the back as far as possible over their entire width.

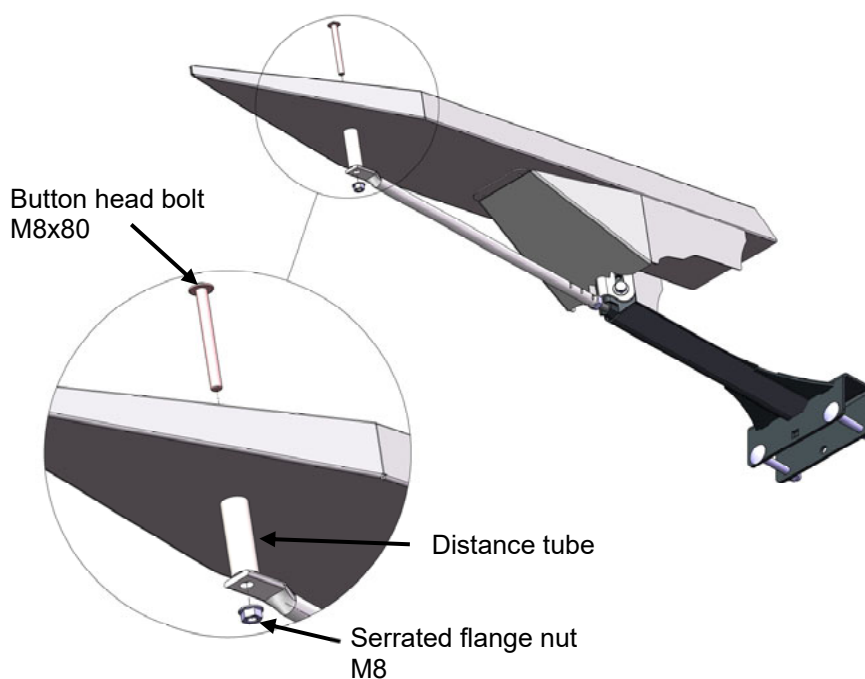


Serrated flange bolt M10x20

Make sure that the guards are completely covered by the integrated shoes of the pan holders and no guards are visible in the gaps between the pans



The central stay is attached to the tip with one M8x80 button head bolt, one M8 serrated flange nut and a distance tube.



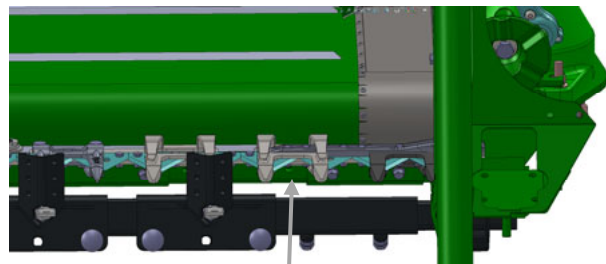
Assembly instructions

Before carrying out any subsequent work, make sure that the two side parts of the sunflower attachment are in correct contact with the tips of the side parts of the header



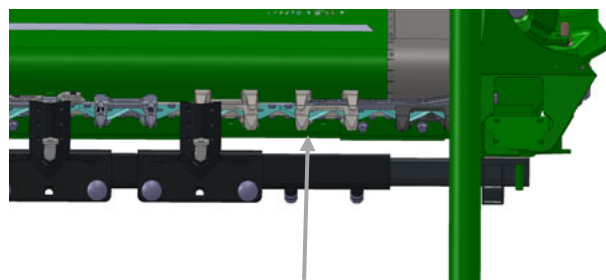
Beginnen Sie mit dem Anbau der Mittelschiffchen auf der linken Schneidwerksseite. Beachten Sie dabei unbedingt das Maß des Abstandes zwischen der Haltestange und dem Seitenteil des Sonnenblumenvorsatzes sowie das Maß des Abstandes zwischen der Haltestange und dem Halter des ersten Mittelschiffchens auf der linken Schneidwerksseite. Diese Maße sind auf der einlamierten Gesamtzeichnung des Sonnenblumenvorsatzes angegeben.

Situation at 2-finger pan left hand side



2-finger pan

Situation at 3-finger pan left hand side



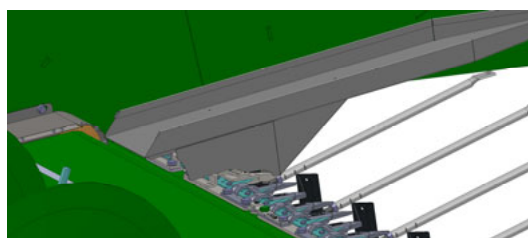
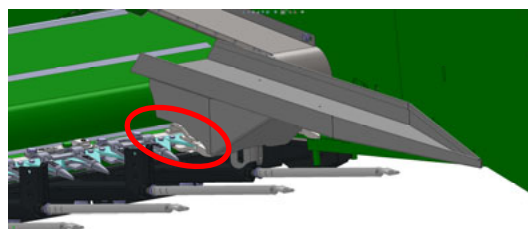
3-finger pan

Align the first pan holder according to the dimensions on the laminated drawing and slide the first central pan onto the fingers from the front.



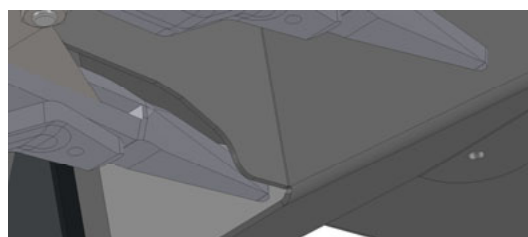
Assembly instructions

On the left side of the header, the backs of the fingers are higher and shaped differently than the other fingers of the cutting system. These fingers determine the height of the first central pan and thus – if all other pans are aligned with it – the height of the central and the outboard pans to the cutting system.

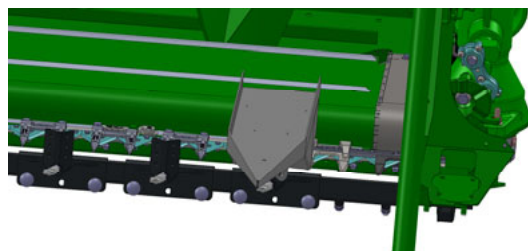


Slide all the other central pans onto the fingers from the front.

Make sure that the finger cover grips the fingers laterally and from below.

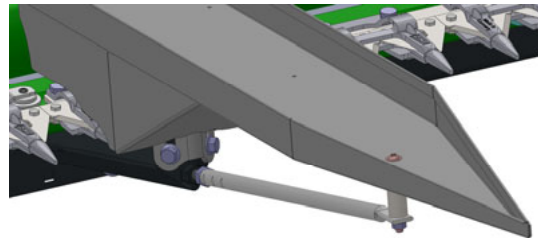
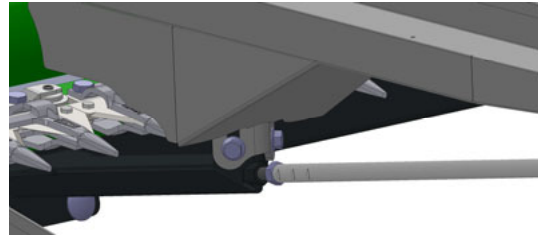


If this is not the case, the position of the supporting bar can be changed forwards or backwards with the screwed-on pan holders relative to the fingers.

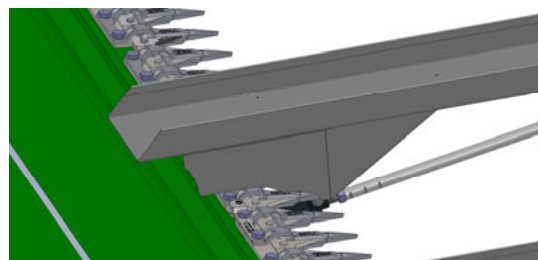
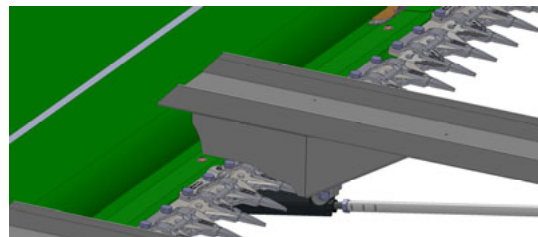


Assembly instructions

Install the two screws, but do not tighten them yet and adjust the central stay to the position of the pan. The pan must fit in full contact into the prism of the pan holder at the front and the finger cover must cover the fingers at the bottom and sides.

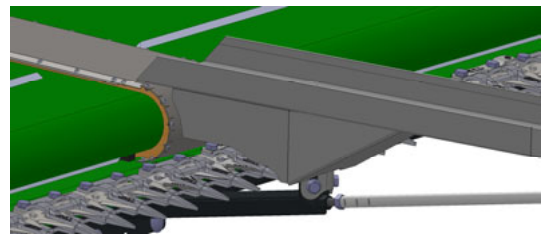
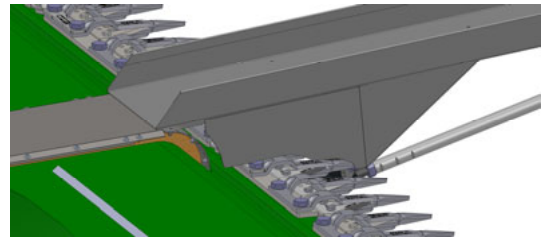


When adjusting the central pans, make sure that they are at a sufficient distance from the conveyor belt or the tunnels on the conveyor belt. Please note that the front deflection roller of the conveyor belt can shift forward due to stretching of the belt.

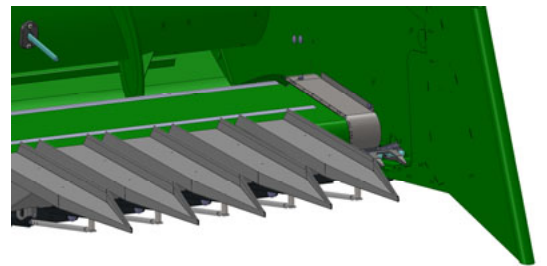


Assembly instructions

Also check in the areas where the central pans cover the covers between the conveyor belts to see if there is sufficient distance.



If all pans are correctly aligned and have a sufficient distance to the conveyor belts and their covers, tighten the fasteners on all pans and on all pan holders.



Assembly instructions

Attaching the outboard pans and aligning the side plates

Again, make sure that the two side plates of the sunflower attachment are correctly aligned with the tips of the side panels of the header.

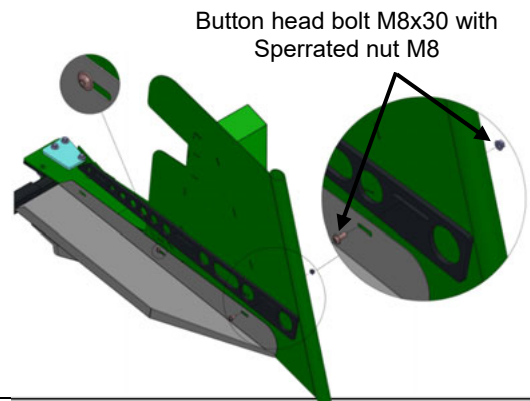
Check again that the central pans are evenly aligned with each other in height.



Place the spacer plate 40404 between the left and right outboard pans and the respective side wall of the sunflower attachment.

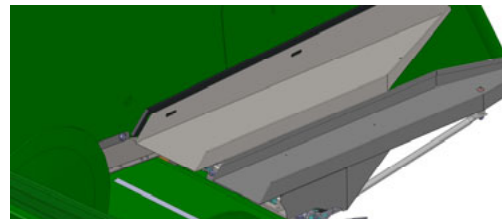
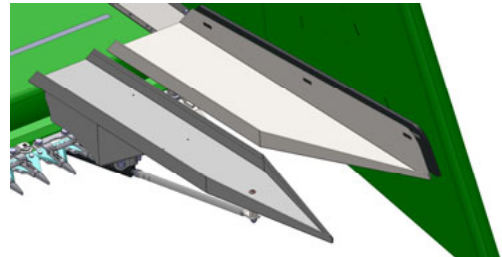
!Attention!

Only with the sunflower attachment for PF735 2 pieces of spacer plates 40404 must be installed on the left side. Always pay attention to the laminated overall drawing!

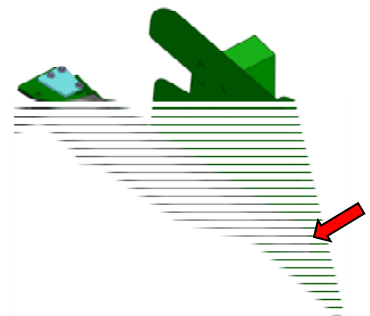


Check again that the central pans are evenly aligned with each other in height.

Now align the height of the two outboard pans with the central pans and bring the trailing edges of the outboard pans congruent with the trailing edges of the central pans.

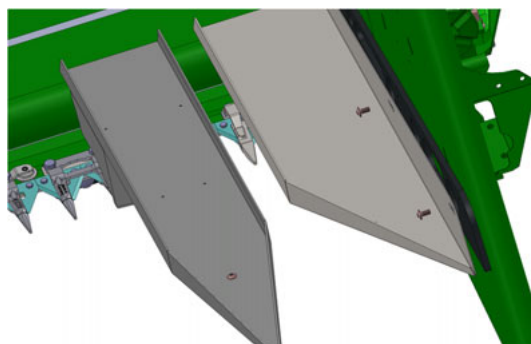


Make sure that the outboard pan does not foul with the guide tube of the side plate.



Assembly instructions

Fix the outboard pans to the side plates by means of screw clamps and drill the elongated holes of the outboard pans on the side plates with a drill \varnothing 9 mm. Screw the two outboard pans with M8x25 lens head screws and M8 locking nuts.

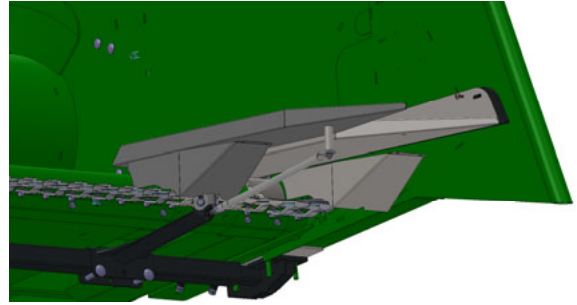


Be sure to mark the position of the outboard pans on the side plates, as the outboard pans will have to be dismantled again later.



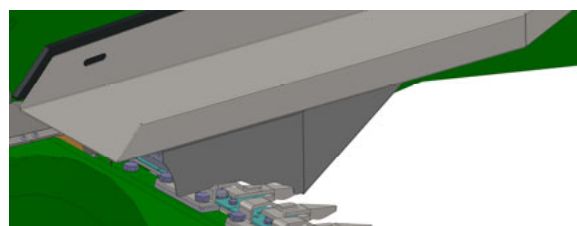
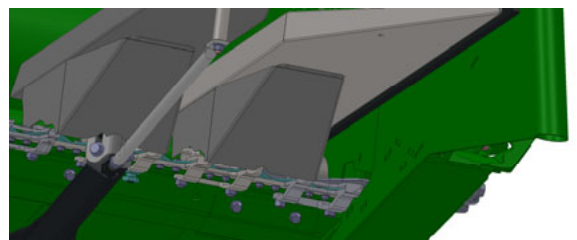
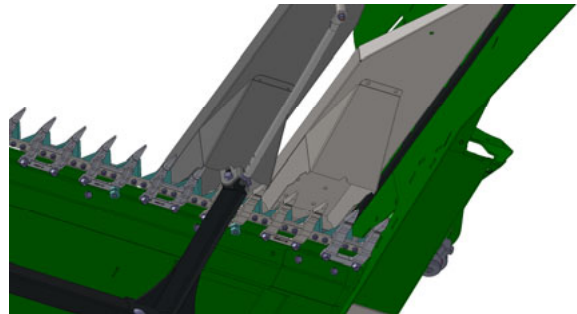
Assembly instructions

From model year 2023, all sunflower attachments are equipped with adjustable finger covers under the outboard pans.



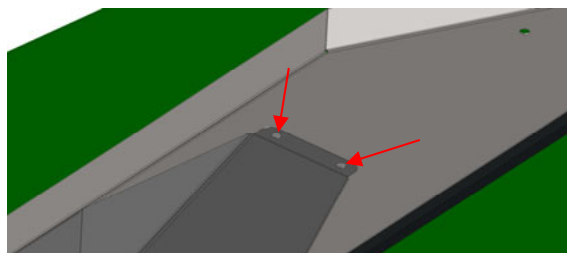
After aligning and attaching the outboard pans to the side plates, the finger covers must be attached to the outboard pans.

Slide the finger cover over the fingers and align it with them so that all fingers are evenly covered and the finger cover is centered on the flanks of the fingers.

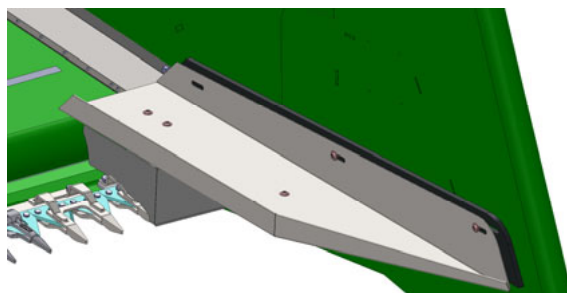
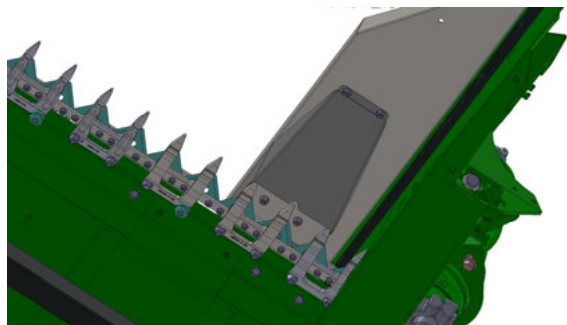


Assembly instructions

Draw the holes (there are 4 or 6 holes, depending on the size of the finger cover) of the finger cover on the outboard pans and dismantle the outboard pan. Now drill holes in the outboard pan at the marked points. The hole diameter should correspond to the one in the finger cover.



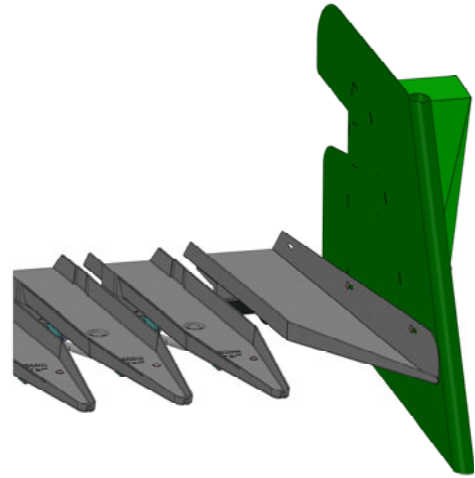
After drilling out the outboard pans, attach the finger covers to the outboard pans and reattach the outboard pans to the side plates according to the markings you have made. After aligning all these parts, tighten all fasteners.



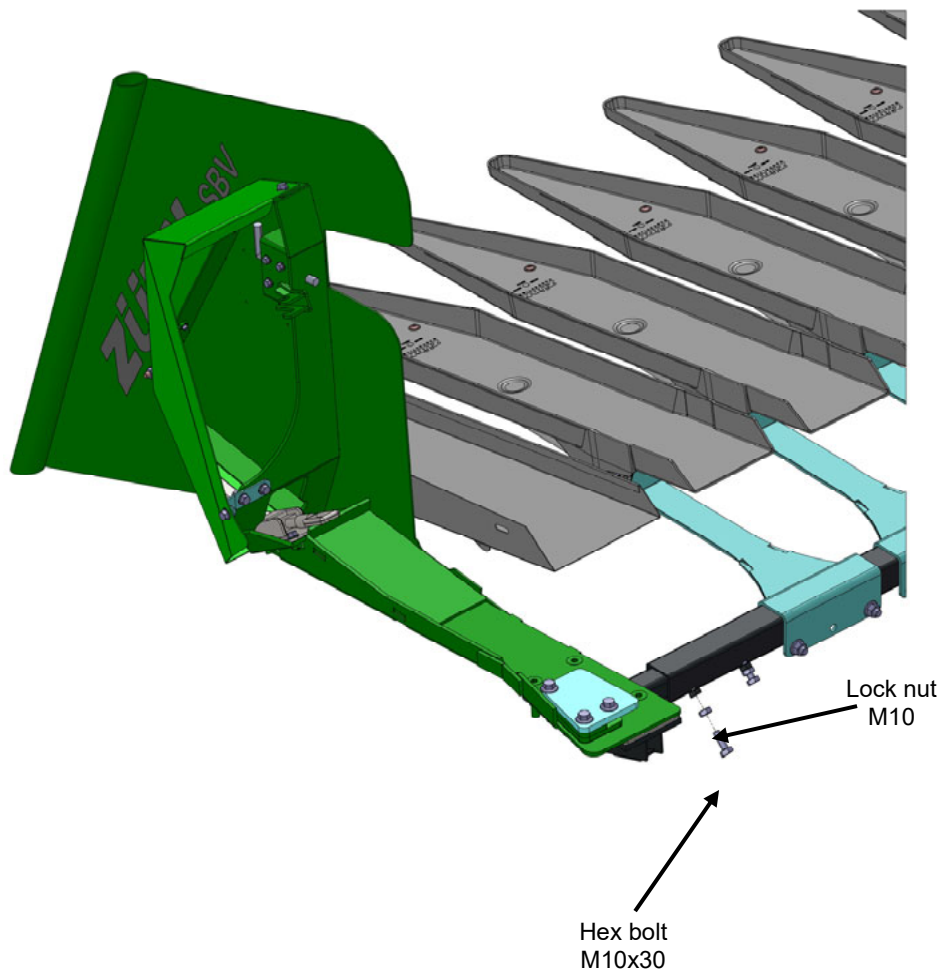
Assembly instructions

Attaching the side plates and the supporting arms

After aligning the side plates with the help of the pans, attach and secure all parts.



Then attach both ends of the supporting arms to the supporting bars (see page 21) using the M10x30 bolts and M10 lock nuts supplied.

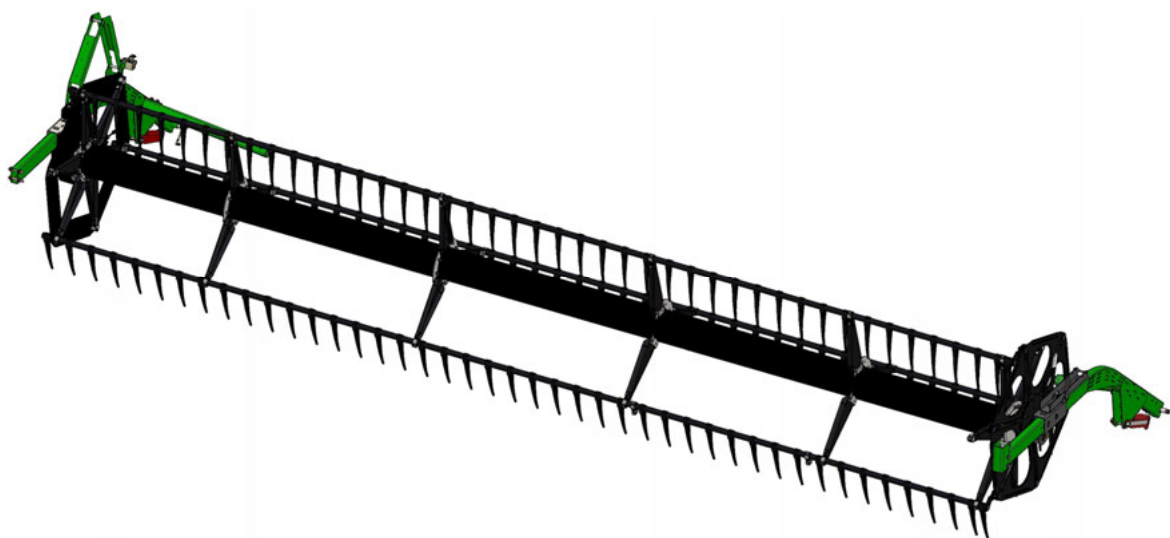
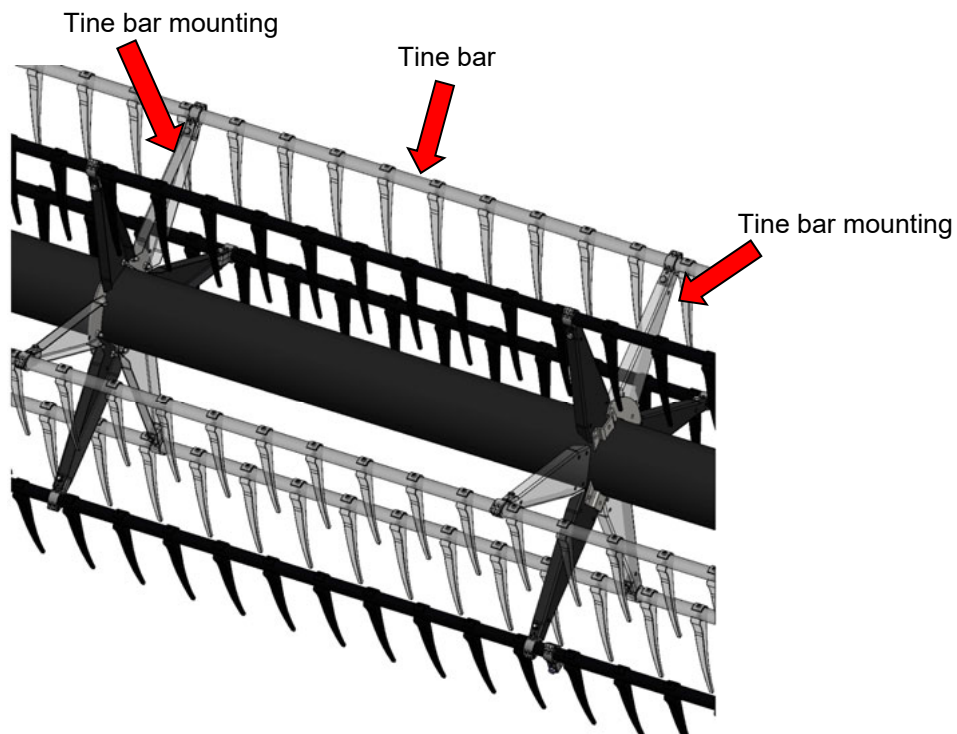


Assembly instructions

Installing the reel boards

Next, install the reel boards.

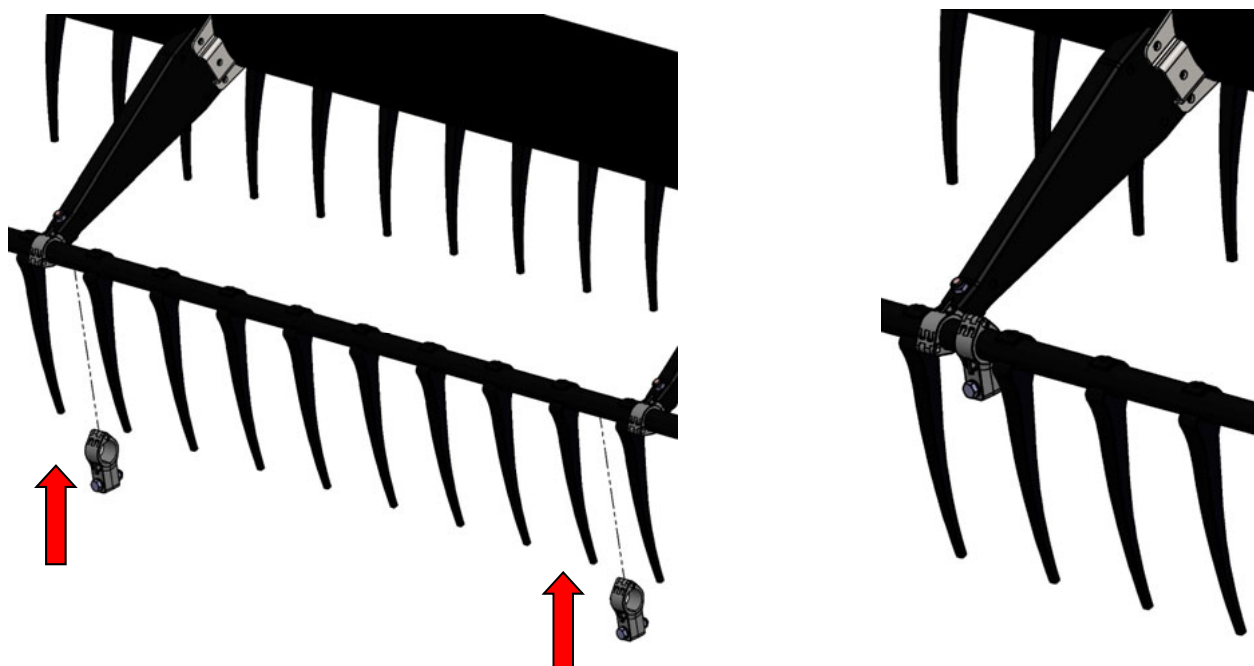
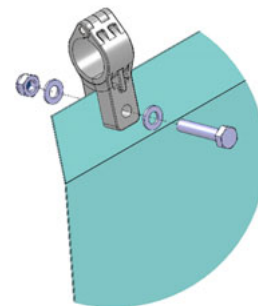
As a first step, remove three tine bars and their mountings from the reel.



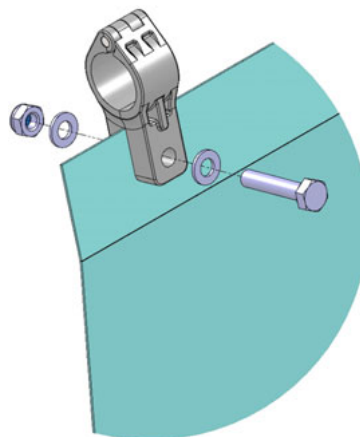
Assembly instructions

Mounting the reel boards to reels with plastic tines

Mount the brackets supplied to the tubes and mark the two holes on each plate.



Drill the holes into the plates and attach the plates.
Use the brackets and associated standard parts supplied for this purpose.



Assembly instructions

Installing the central support

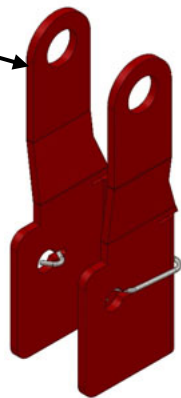
The two reel supports are mounted to the right and left side of the hydr. cylinders that raise the reel. The supports prevent the tines scratching on the header when the reel is in its lowest position.

As a first step, prop or suspend the left side of the reel (e.g. with a crane). This takes strain off the bolt that attaches the cylinder to the reel arm. Then remove this bolt.

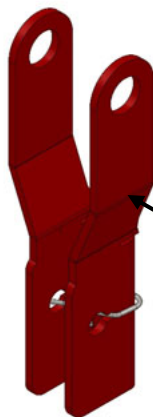
Insert the left reel support, refit the bolt and cotter in place. Repeat on the right side of the reel. Attach the right reel support.



Reel support, left side



Reel support, right side



Attachment and removal of the assembled sunflower extension

Removing the extension from the header

Remove the threaded assembly from the central support and lower the header so that you can release the toggle clamps and reverse the header from the extension. Remove the reel boards and re-attach the tine bars to the reel.

Attaching the extension to the header

Place the sunflower extension on the ground and drive the combine, with the grain header attached, into the extension.



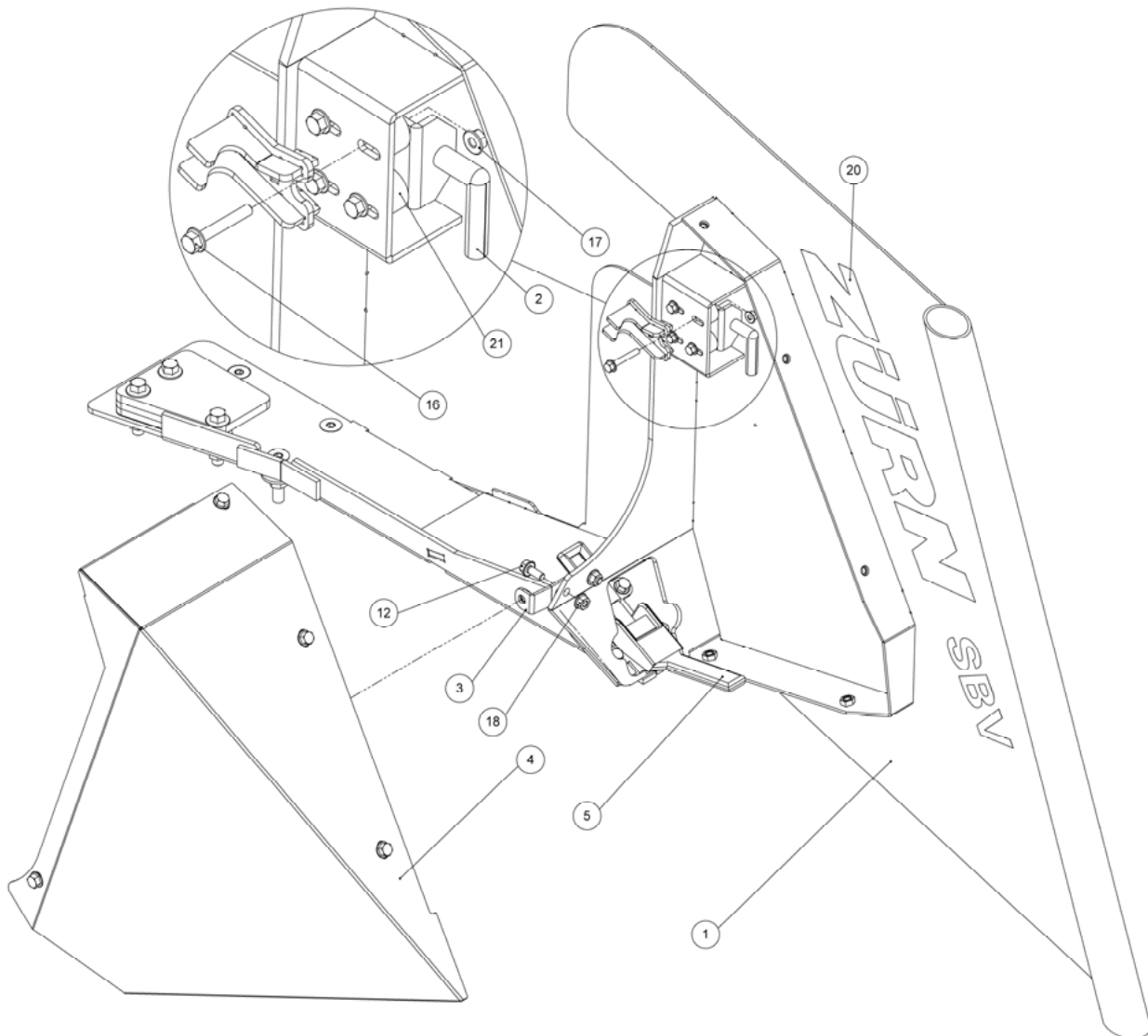
Make sure that both guard fingers are inserted in the pan!

Attach the extension to both side plates of the grain header by locking the toggle clamps. Then attach the central supports.

Next, fit the reel boards.

Parts list

Right side plates



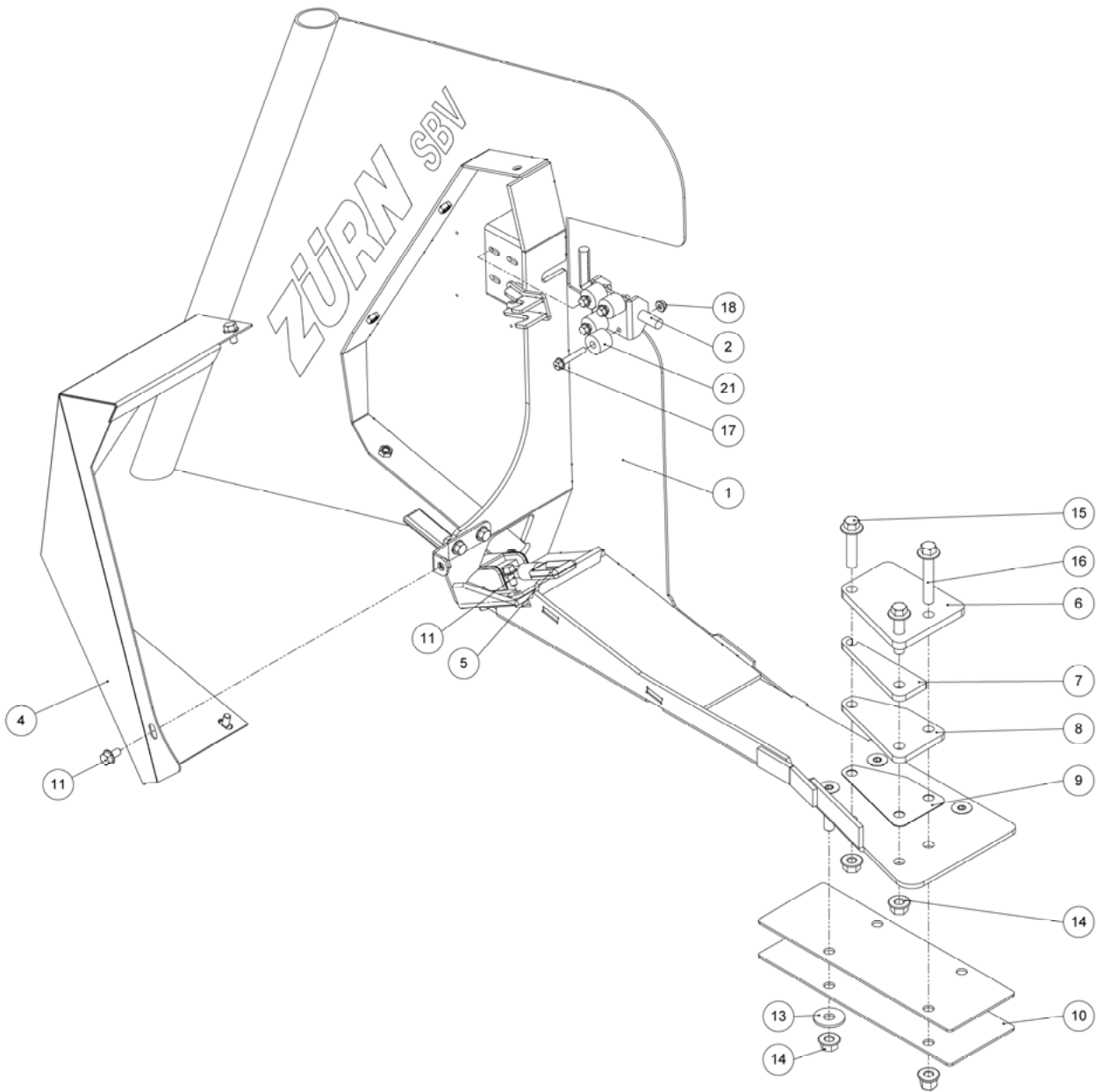
Parts list

Right side plates

Item	Quantity	Item no.	Designation	Description
1	1	40953	Right side plate	Welded assembly
2	1	25116	Spring latch for jockey wheel MY 06	
3	1	40740	Guard mounting, left side	
4	1	40540	Right guard	
5	1	40562	Toggle clamp	
6	1		Top shim	See accessory pack page 58-59
7	1		Spacer plate top	See accessory pack page 58-59
8	1		Spacer plate below	See accessory pack page 58-59
9	1		Tuning plate bottom	See accessory pack page 58-59
10	2	40567	Outboard bracket spacer	
11	10	70043	Serrated flange bolt	similar to DIN 6921 - M8x16
12	2	70044	Serrated flange bolt	similar to DIN 6921 - M8x20
13	3	70352	Washer	DIN 9021 – 12
14	2		Hex bolt with flange	See accessory pack page 58-59
15	1		Hex bolt with flange	See accessory pack page 58-59
16	4	70838	Hex bolt with flange	DIN 6921 - M6x40
17	4	70233	Hex nut with flange	DIN 6923 - M6
18	2	70005	Hex nut with flange	DIN6923 - M8
19	6	70012	Hex nut with flange	DIN 6923 - M12
20	1	41056	Zürn SBV Decal	
21	4	40395	Distance bushing Varifeed	
1-21	1	-	Side plate assembly, right side	Mounting assembly

Parts list

Left side plates



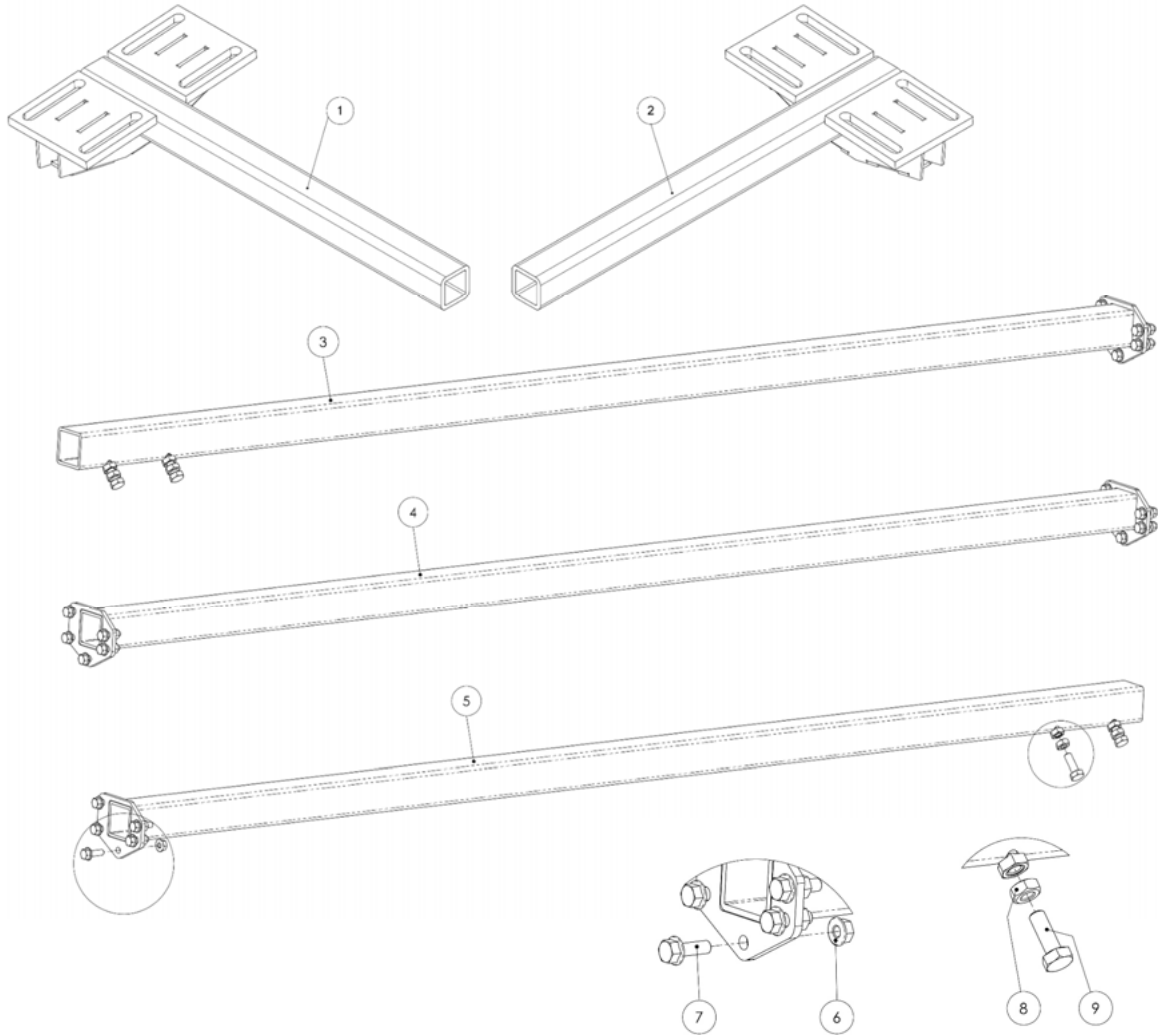
Parts list

Left side plates

Item	Quantity	Item no.	Designation	Description
	1	40592	Left side plate	Welded assembly
2	1	25116	Spring latch for jockey wheel MY 06	
3	1	40740	Guard mounting, left side	
	1	40508	Left guard	
5	1	40562	Toggle clamp	
6	1		Top shim	See accessory pack page 58-59
7	1		Spacer plate top	See accessory pack page 58-59
8	1		Spacer plate below	See accessory pack page 58-59
9	1		Tuning plate bottom	See accessory pack page 58-59
10	2	40567	Outboard bracket spacer	
11	10	70043	Serrated flange bolt	similar to DIN 6921 - M8x16
12	2	70044	Serrated flange bolt	similar to DIN 6921 - M8x20
13	3	70352	Washer	DIN 9021 - 12
14	6	70012	Hex nut with flange	DIN 6923 - M12
15	2		Hex bolt with flange	See accessory pack page 58-59
16	1		Hex bolt with flange	See accessory pack page 58-59
17	4	70838	Hex bolt with flange	DIN 6921 - M6x40
18	4	70233	Hex nut with flange	DIN 6923 - M6
19	2	70005	Hex nut with flange	DIN6923 - M8
20	1	41056	Zürn SBV Decal	
21	4	40395	Distance bushing Varifeed	
1-21	1	-	Side plate assembly, left side	Mounting assembly

Parts list

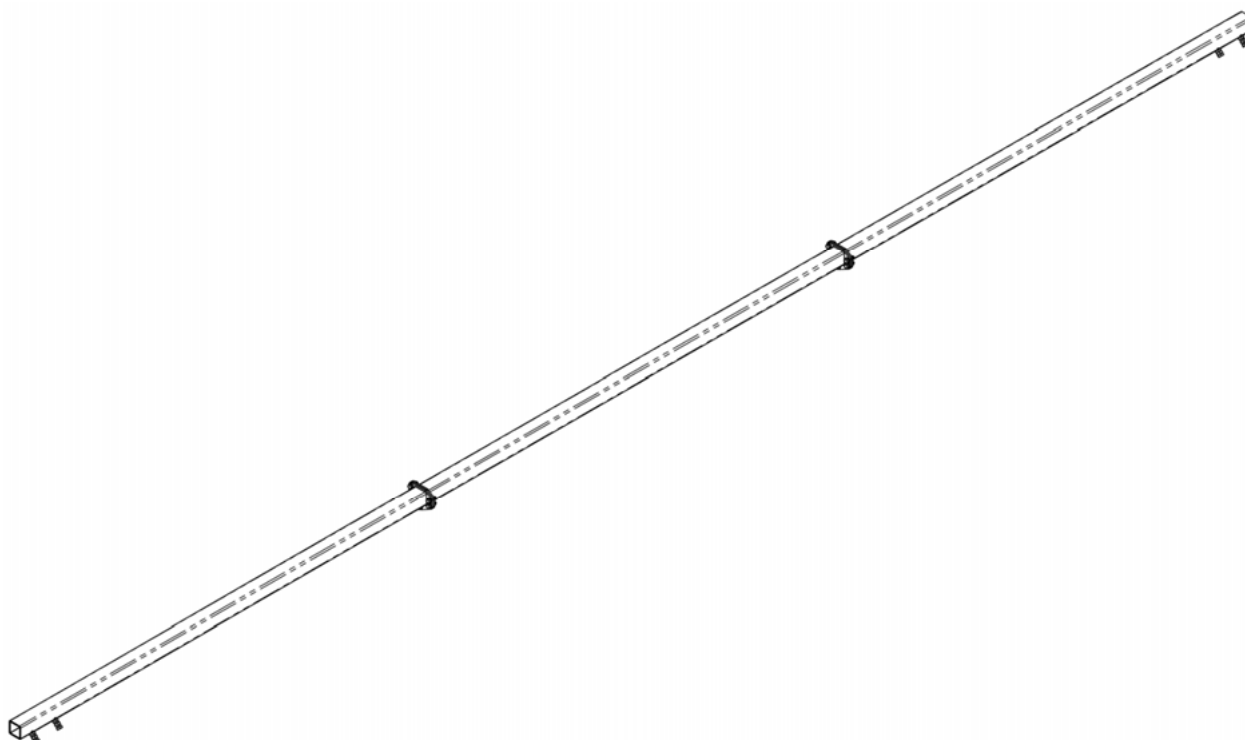
Supporting arms and bars



Item	Quantity	Item no.	Designation	Description
1	1	40528	Left side plate bracket	
2	1	40574	Right side plate bracket	
3	1	40019	Assembled supporting bar, left side	1780mm
4	AR	40018	Assembled supporting bar, central section	1828.8mm
5	1	40020	Assembled supporting bar, right side	1137mm
	1	40022	Assembled supporting bar, right side	223mm
	1	40023	Assembled supporting bar, right side	1517mm
	1	40030	Assembled supporting bar, right side	1780mm
6	AR	093230	Hex bolt with flange	DIN6921 M8x25
7	AR	70005	Hex nut with flange	DIN6923 M8
8	4	70015	Hex nut	DIN 934 M10
9	4	70061	Hex bolt	DIN 933 M10x30

Parts list

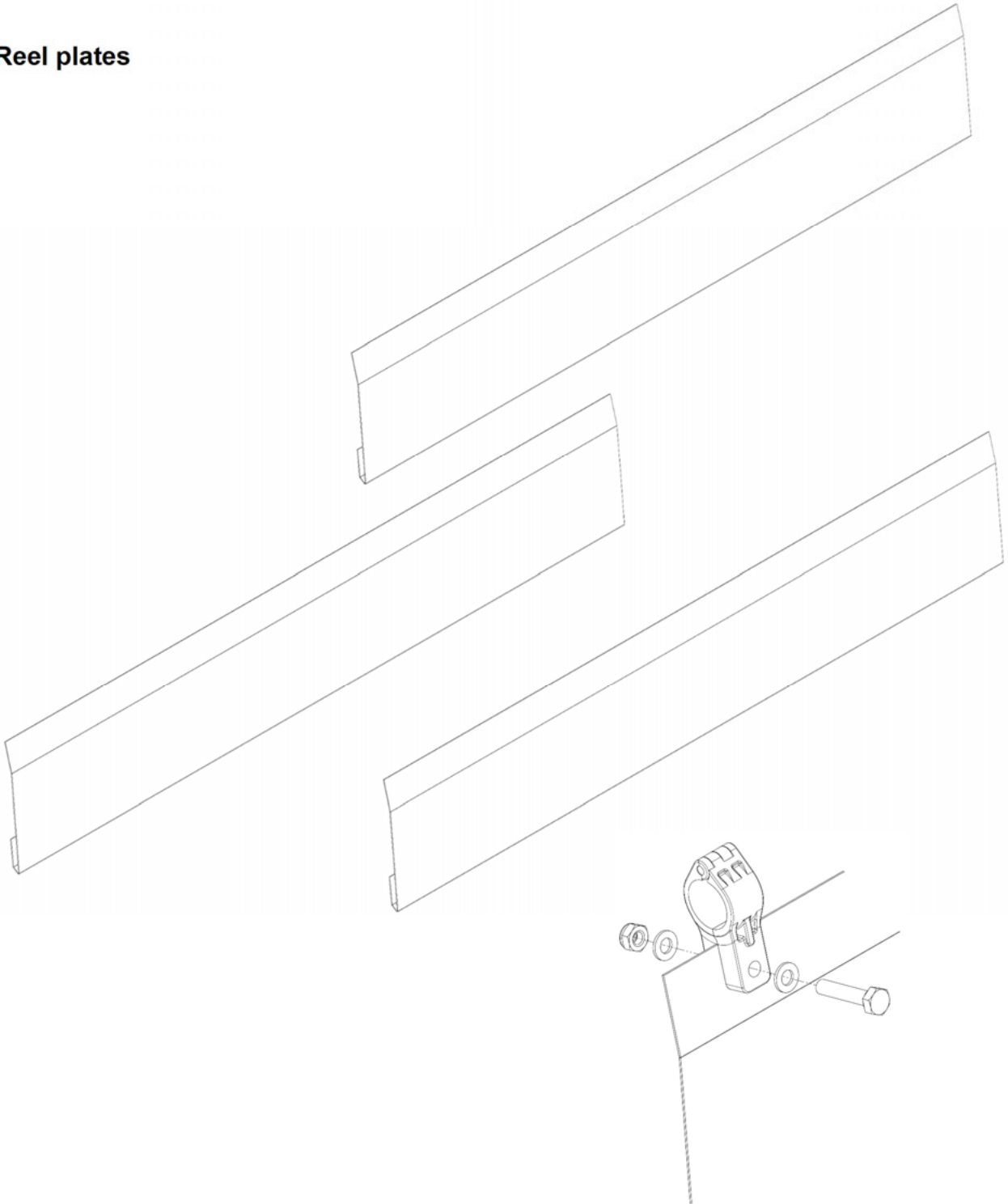
Supporting bars



Type	Quantity	Item no.	Designation	Description
622X/722X 6.70m	1	40019	Assembled supporting bar, left side	
	2	40018	Assembled supporting bar, middle section	
	1	40020	Assembled supporting bar, right side	
	15	093230	Hex bolt with flange	DIN 6921 M8x25
	15	70005	Hex nut with flange	DIN 6923 M8
625X/725X 7.60m	1	40019	Assembled supporting bar, left side	
	3	40018	Assembled supporting bar, middle section	
	1	40022	Assembled supporting bar, right side	
	20	093230	Hex bolt with flange	DIN 6921 M8x25
	20	70005	Hex nut with flange	DIN 6923 M8
630X/730X 9.15m	1	40019	Assembled supporting bar, left side	
	3	40018	Assembled supporting bar, middle section	
	1	40030	Assembled supporting bar, right side	
	20	093230	Hex bolt with flange	DIN 6921 M8x25
	20	70005	Hex nut with flange	DIN 6923 M8
635X/735X 10.50m	1	40019	Assembled supporting bar, left side	
	4	40018	Assembled supporting bar, middle section	
	1	40023	Assembled supporting bar, right side	
	25	093230	Hex bolt with flange	DIN 6921 M8x25
	25	70005	Hex nut with flange	DIN 6923 M8

Parts list

Reel plates



Attachment system for
reels with
Plastic tines

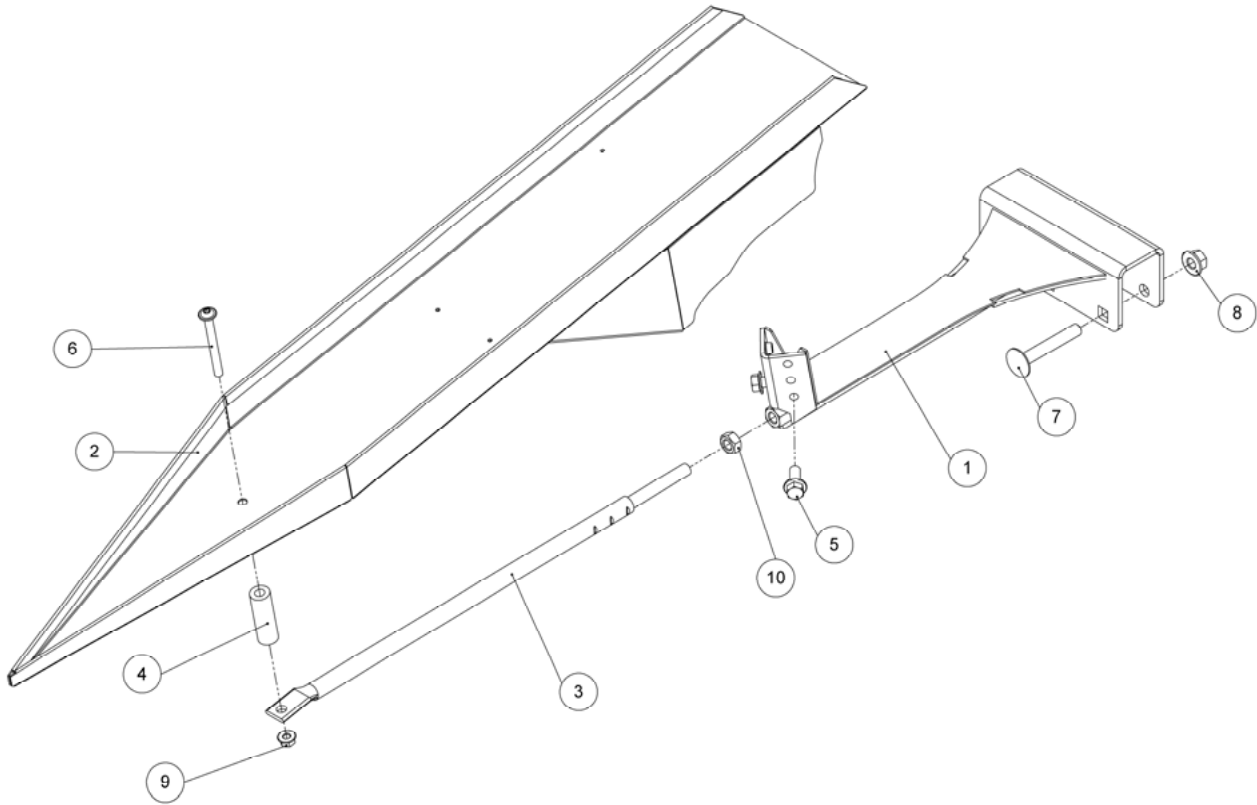
Parts list

Reel plates

Type	Header width	Item no.	Length	Quantity
722PF	6.70m	40082	980mm	3
		40083	1040mm	3
		40075	1320mm	3
		40080	1400mm	6
		AXE288032	Bracket	30
		092020	Hex bolt DIN 933 - M10x50	30
		70075	Washer DIN 125A - 10	60
		70021	Hex nut DIN 985 - M10	30
725PF	7.60m	40075	1320mm	3
		40080	1400mm	6
		40084	1450mm	6
		AXE288032	Bracket	30
		092020	Hex bolt DIN 933 - M10x50	30
		70075	Washer DIN 125A - 10	60
		70021	Hex nut DIN 985 - M10	30
730PF	9.15m	40080	1400mm	12
		40084	1450mm	6
		AXE288032	Bracket	36
		092020	Hex bolt DIN 933 - M10x50	36
		70075	Washer DIN 125A - 10	72
		70021	Hex nut DIN 985 - M10	36
		735PF	10.50m	40126
40127	1290mm			6
AXE288032	Bracket			42
092020	Hex bolt DIN 933 - M10x50			42
70075	Washer DIN 125A - 10			84
70021	Hex nut DIN 985 - M10			42

Parts list

Central pan

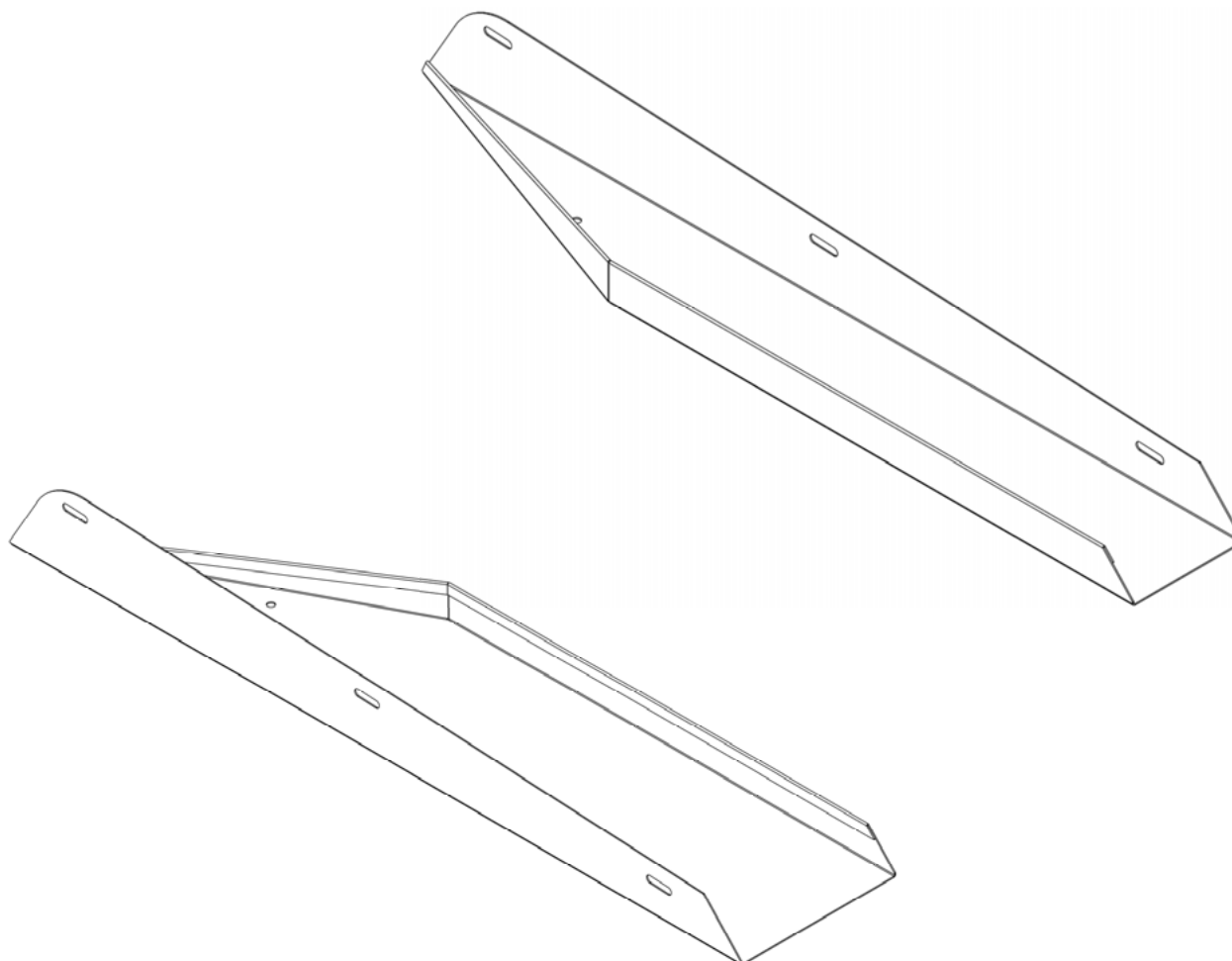


Item	Quantity	Item no.	Designation	Description
1	1	40004	Central pan support	Universal
2	1	41110	Central pan	Premium Flow
3	1	40047	Central support stay	
4	1	41138	Distance tube	Premium Flow 600/700
5	2	093223	Hex bolt with flange	DIN 6921 M10x25
6	1	092048	Button head bolt	ISO 7380-2 M8x80
7	2	70199	Lock screw	similar DIN 603 M12x80
8	2	70012	Hex nut with flange	DIN 6923 M12
9	3	70005	Hex nut with flange	DIN 6923 M8
10	1	091664	Hex nut	DIN 934 M12

Item	Item no.	22 ft	25 ft	30 ft	35 ft	Designation
1-11	41113	27	31	38	45	Central pan assy complete

Parts list

Outboard pans left hand and right hand

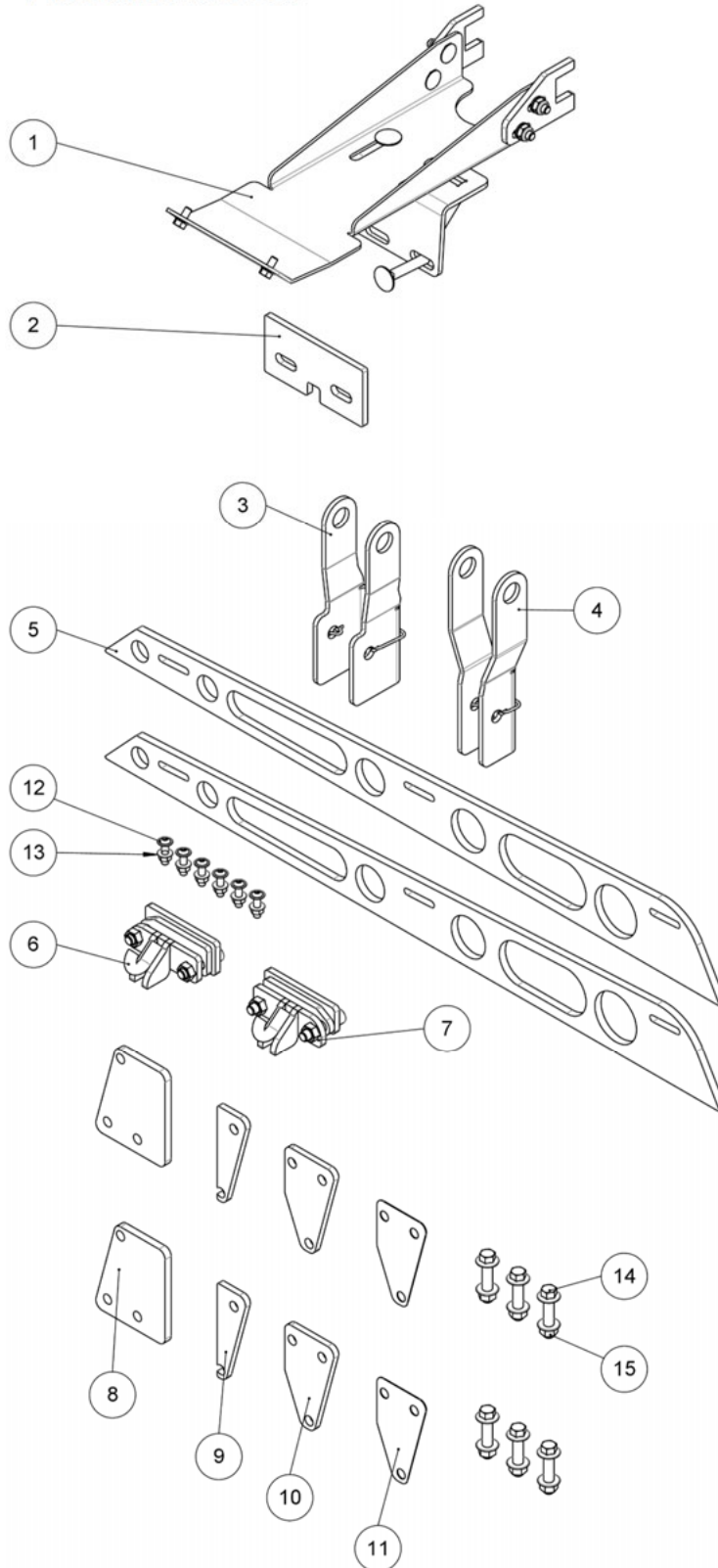


Item	Quant.	Item no.	Designation	Description
1	1	40062	Pan 2 finger	Left hand – 145 mm
	1	40058	Pan 3 finger	Left hand – 212 mm
	1	40065	Pan 2 finger	Right hand – 135 mm
	1	40060	Pan 3 Finger	Right hand – 212 mm

Item	Item no.	22 ft	25 ft	30 ft	35 ft	Description
1	40062				1	Pan 2 finger left hand
	40058	1	1	1		Pan 3 finger left hand
	40065			1	1	Pan 2 finger right hand
	40060	1	1			Pan 3 finger right hand

Parts list

Accessory pack – Premium Flow 700



Parts list

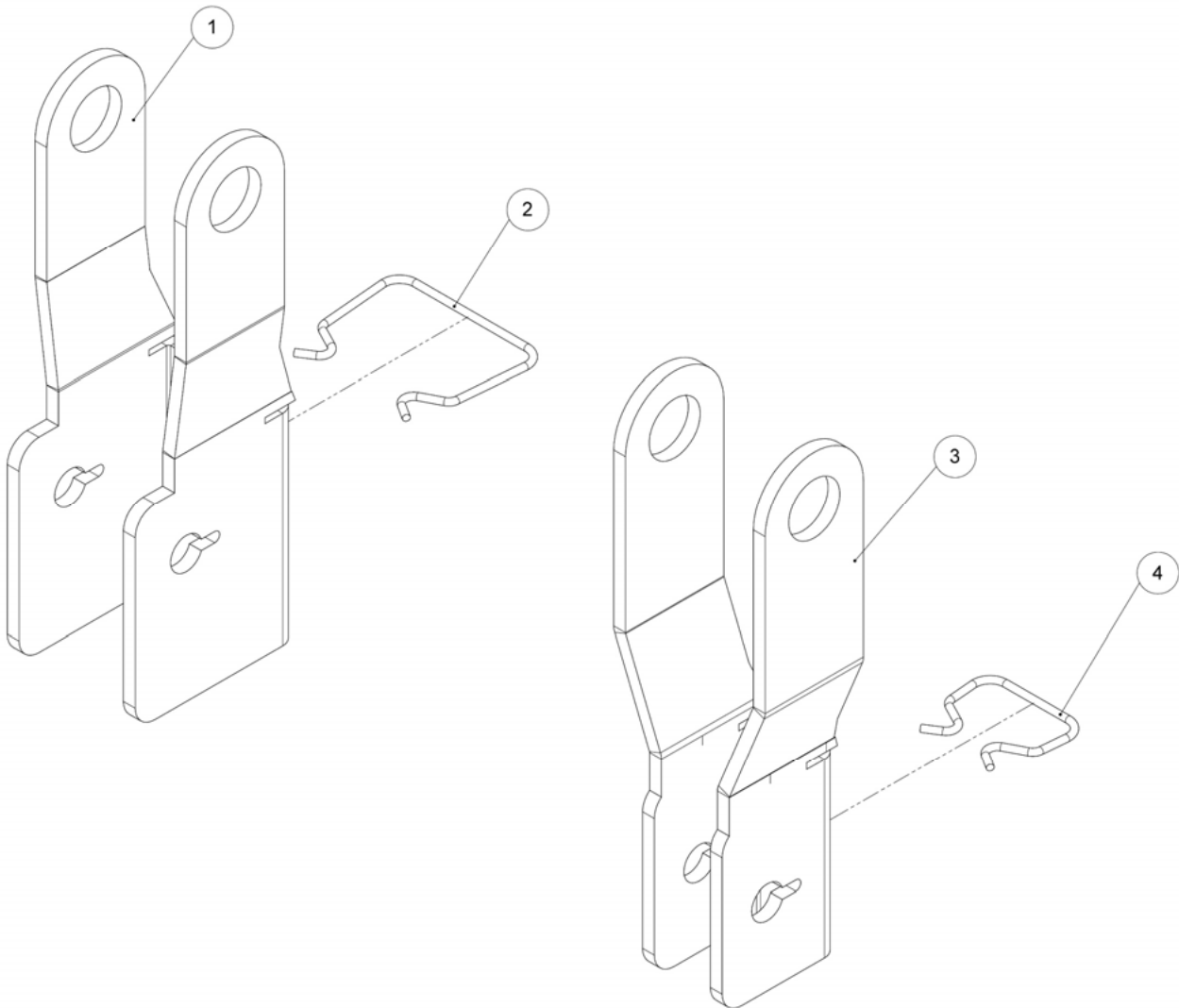
Accessory pack – Premium Flow 700

Item	Quantity	Item no.	Designation	Description
1	1		Central support assembly	Accessories 22 – 30 ft *
	2			Accessories 35 ft *
2	1	40564	Central support cover plate	
3	1		Reel support, left side	See page 60
4	1		Reel support, right side	See page 60
5	2	40404	Spacer plate	t = 10 mm
6	1		Locking unit, left side	See page 62
7	1		Locking unit, right side	See page 62
8	2	40494	Top shim	
9	2	40957	Spacer plate top	
10	2	40956	Spacer plate below	
11	2	40963	Tuning plate bottom	
12	6	091558	Countersunk hex button head bolt	ISO 7380/2 – M8x30
13	6	70005	Hex nut with flange	DIN 6923 – M8
14	6	70824	Hex bolt with flange	DIN 6921 – M12x55
15	6	70012	Hex nut with flange	DIN 6923 – M12

*see page 61

Parts list

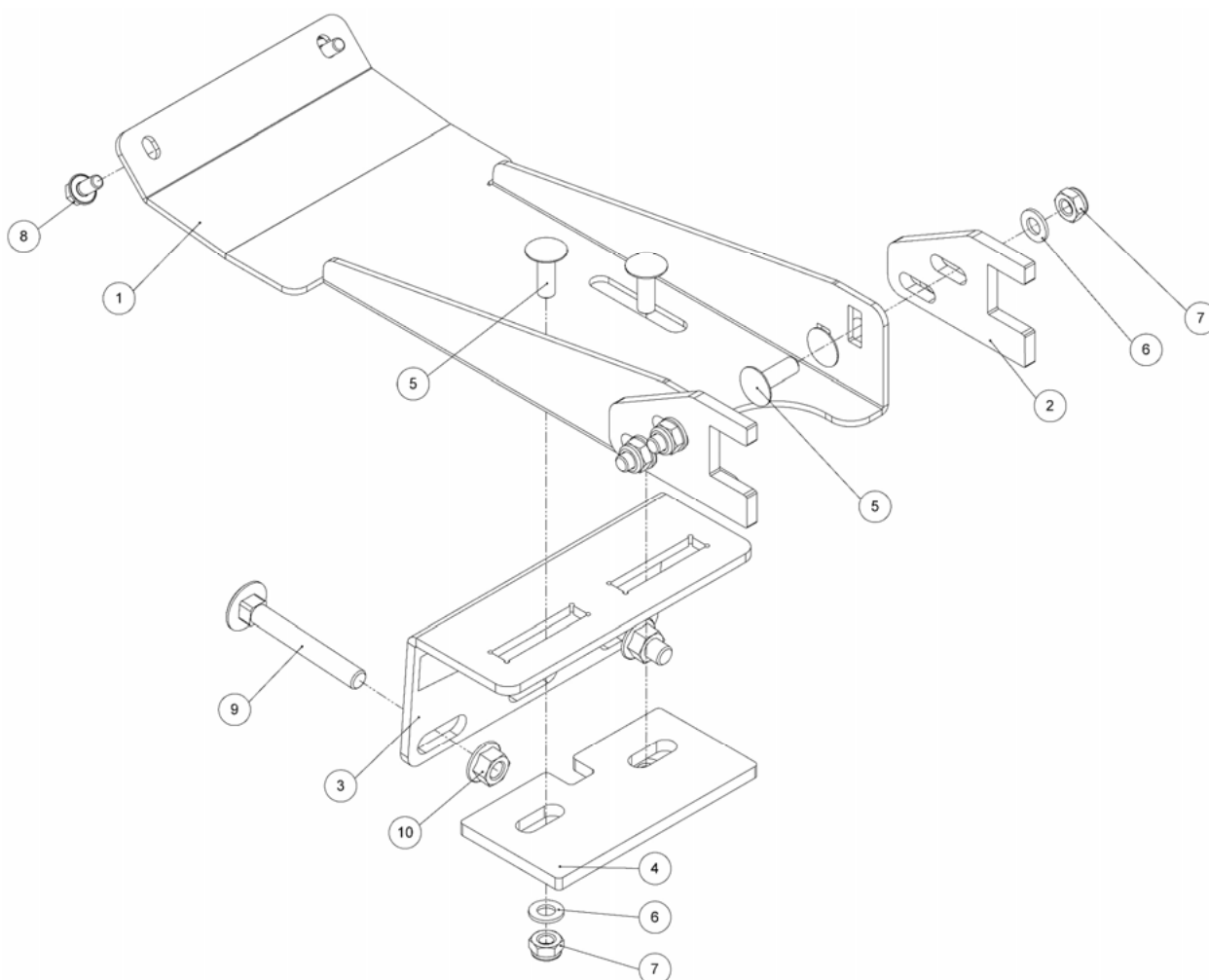
Reel support



Item	Quantity	Item no.	Designation	Technical information
1	1	40580	Reel support, left side	
2	1	HXE103986	Holder	
3	1	40582	Reel support, right side	
4	1	H87239	Holder	

Parts list

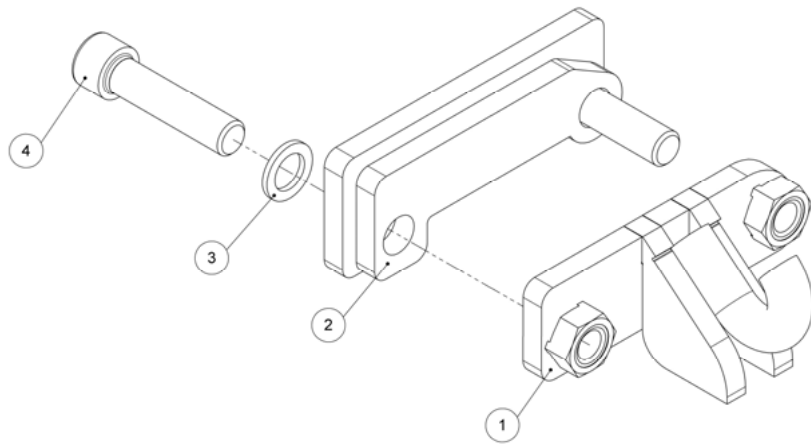
Central support assembly



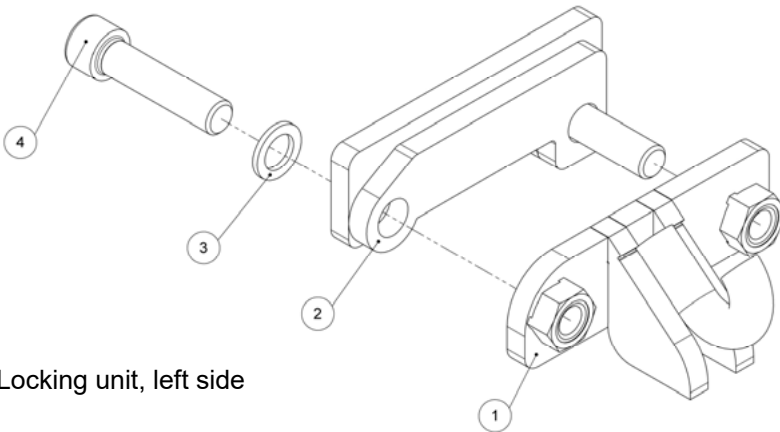
Item	Quantity	Item no.	Designation	Technical information
1	1	40723	Sheet metal part skid holder	
2	2	40724	Central support holder attachment plate	
3	1	40958	Central support assembly	
4	1		Central support cover plate	
5	6	093289	Carriage bolt	similar to DIN 603 - M10x30
6	6	70338	Washer	DIN 125 A - 10
7	6	70021	Hex nut	DIN 985 - M10
8	2	70043	Serrated flange bolt	similar to DIN 6921 - M8x16
9	2	70205	Carriage bolt	DIN 603 - M12x90
10	2	70012	Hex nut with flange	DIN 6923 - M12

Parts list

Locking units right and left



Locking unit, right side



Locking unit, left side

Item	Quantity	Item no.	Designation	Technical information
1	1	40902	Locking unit, right side	Front hook
	1	40908	Locking unit, left side	Front hook
2	1	40904	Locking unit, right side	Rear fastener
	1	40909	Locking unit, left side	Rear fastener
3	2	70081	Washer	DIN 433 - 12
4	2	096380	Hex bolt	DIN 912 - M12x50

Torques for Metric Bolts

Bolts	Grade 4.8				Grade 8.8 oder 9.8				Grade 10.9				Grade 12.9			
	Oiled		Dry		Oiled		Dry		Oiled		Dry		Oiled		Dry	
	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in	N•m	lb-in
M6	4,7	42	6	53	8,9	79	11,3	100	13	115	16,5	146	15,5	137	19,5	172
M8	11,5	102	14,5	128	22	194	27,5	243	32	23,5	40	29,5	37	27,5	47	35
M10	23	204	29	21	43	32	55	40	63	46	80	59	75	55	95	70
M12	40	29,5	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	46	80	59	120	88	150	110	175	130	220	165	205	150	260	190
M16	100	74	125	92	190	140	240	175	275	200	350	255	320	235	400	300
M18	135	100	170	125	265	195	330	245	375	275	475	350	440	325	560	410
M20	190	140	245	180	375	275	475	350	530	390	675	500	625	460	790	580
M22	265	195	330	245	510	375	650	480	725	535	920	680	850	625	1080	800
M24	330	245	425	315	650	80	820	600	920	680	1150	850	1080	800	1350	1000
M27	490	360	625	460	950	700	1200	885	1350	1000	1700	1250	1580	1160	2000	1475
M30	660	490	850	625	1290	950	1630	1200	1850	1350	2300	1700	2140	1580	2700	2000
M33	900	665	1150	850	1750	1300	2200	1625	2500	1850	3150	2325	2900	2150	3700	2730
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2770	4750	3500
<p>The tightening torques given are guideline values. Do NOT use these values if a different torque or another securing method is specified for a specific application. For stainless steel bolts and nuts for stirrup bolts, see specific instructions. Tighten locking nuts with plastic insert or edge-raised steel locking nuts to the corresponding torque for dry bolts and nuts given in the table unless otherwise instructed.</p>								<p>Shear pins are designed to break at a certain load. When replacing shear pins, use only pins of the same grade. When replacing bolts and nuts, make sure that equivalent parts of the same or a higher grade are used. Tighten higher-grade nuts and bolts to the same torque as the originally used parts. Make sure that the thread is clean and the bolts correctly fitted. If possible, oil normal and galvanised nuts and bolts (except for locking nuts and wheel studs or nuts) unless specified otherwise for the specific application.</p>								
<p>“Oiled” means that a lubricant, such as engine oil, is applied to the bolts or that phosphatized or oiled bolts with a size from M20 are used.</p>																
<p>“Dry” means the use of normal or galvanised bolts without lubrication or bolts with a size between M6 and M18 that are zinc-coated.</p>																

General terms of guarantee

Zürn Harvesting GmbH & Co. KG, Kapellenstraße 1, D-74214 Schöntal-Westernhausen (hereinafter “Zürn Harvesting”) hereby certifies for each customer who has purchased a new Zürn Harvesting machine from an authorised dealer that the materials and workmanship of this machine are guaranteed under the conditions specified below, providing that the machine is put into operation and maintained in accordance with the specifications in the operating instructions.

I. Duration of the guarantee

The guarantee period is one year from delivery of the machine by Zürn Harvesting and is valid for up to 500 operating hours within this period. The replacement of individual parts or repair will not prolong the above guarantee period for the machine.

II. Scope of the guarantee

The guarantee embraces only the reimbursement or repair of the parts and reimbursement of work time required in order to effect the repair, based on the repair times allowed by Zürn Harvesting, under the prerequisite that the fault was determined by our technical customer service department and was acknowledged by Zürn Harvesting to be attributable to faulty materials or workmanship. Replaced parts will become the property of Zürn Harvesting. The customer must allow services received from the vendor/dealer under warranty to be credited to the guarantee.

The guarantee does not cover any further claims against Zürn Harvesting. This means in particular that travel and transport costs will not be reimbursed, nor will Zürn Harvesting be liable for consequential damage, such as loss of harvest or losses of income.

III. Limitations of the guarantee

The guarantee does not apply to defects or faults that are attributable to:

- usual wear and tear;
- failure to heed operating, storage or transport instructions contained in the operating manual,
- use other than as intended, inadequate maintenance, inexpert operation or excessive use,
- damage caused to the machine or its equipment caused during transportation or loading; machines, equipment and parts are shipped at the risk of the recipient,
- external influences on the machine, e.g. third-party damage, weathering or other natural occurrences,
- circumstances that were known to the buyer at the time of purchase.

The guarantee will be rendered null and void if technical modifications are made to the machine without the written consent of Zürn Harvesting or if spare parts other than original Zürn Harvesting spare parts are installed and/or if repairs were not carried out by an authorised dealer. The guarantee is likewise voided if the machine was not put into service for the first time by the dealer in accordance with the instructions of Zürn Harvesting.

General terms of guarantee

IV. Assertion of the guarantee

The terms of the guarantee are dependent upon precise observance of the following regulations by both the dealer and the purchaser:

- The guarantee card (machine card) completed by the dealer and customer must be returned to Zürn Harvesting by post or e-mail as soon as the machine has been delivered to the customer.
- Applications for guarantee claims must be formulated on the corresponding Zürn Harvesting form and presented to Zürn Harvesting by the dealer within one calendar month of discovery of the defect/fault.
- The application must be completed legibly and must contain the following information:
 - Name, address and dealer customer number
 - Name and address of the purchaser
 - Exact machine type and designation
 - Complete serial number of the machine
 - Date of delivery to the dealer and to the purchaser
 - Date of the claim
 - Number of operating hours or acreage harvested by the machine
 - Exact description of the damage and information regarding the probable cause
 - Quantity, item numbers and description of damaged parts

The parts reported as damaged must be returned to Zürn Harvesting free of charge for appraisal, complete with a copy of the guarantee claim application. Any costs incurred for returning the parts replaced or repaired will be borne by the sender.

If the guarantee claim application is refused, the dealer or the customer has a period of 15 days, starting from the day the Zürn Harvesting decision was received, to demand return of the damaged parts. Once this period has elapsed, the parts will be disposed of.

V. Additional clauses

Claims under the guarantee may not be transferred to third parties without the prior, written consent of Zürn Harvesting.

The dealer has neither the right nor the authority to make declarations or to enter into a commitment etc., whether express or implied, in the name of Zürn Harvesting.

The technical support for repair of the machine given by Zürn Harvesting or their representatives excludes any further liability whatsoever by Zürn Harvesting and has no influence whatsoever on the existing terms of guarantee.

Zürn Harvesting reserves the right to modify the design of the machine without prior notice. It is not obliged to transfer such modifications to machines which have already been sold or are in use.

Furthermore, due to the rapid development of the state of the art, no guarantee can be given for the machine descriptions contained in these operating instructions or other technical leaflets and data sheets.

EG- Konformitätserklärung

EG- Konformitätserklärung nach Maschinenrichtlinie 2006/42/EG

Bitte sorgfältig aufbewahren, jedoch nicht im Fahrzeug

EU CERTIFICATE OF CONFORMITY According to Machinery Directive 2006/42/EG

Please keep safely, not inside the vehicle

Hiermit bestätigt die <i>Hereby declares</i>	Zürn Harvesting GmbH & Co. KG	
in alleiniger Verantwortung dass das landwirtschaftliche Anbaugerät <i>the full responsibility for the agricultural implement</i>	Fabrikmarke <i>Brand</i>	Zürn Harvesting GmbH
	Typ <i>Type</i>	SBV
genehmigt in <i>approved in</i>	Schoental	
am <i>on</i>	03.03.2023	
durch den <i>by the</i>	Hersteller / manufacturer	
den grundlegenden Sicherheits- und Gesundheitsanforderungen der Richtlinie 2006/42/EG entspricht. <i>to full fill the complete safety- and health requirements according to machinery directive 2006/42/EG.</i>		
Zur sachgerechten Umsetzung der in den EU- Richtlinien genannten Sicherheits- und Gesundheitsanforderungen wurden folgende Normen herangezogen: <i>For proper implementation according to the EU- Directives for health and safety requirements, the following standards were used:</i>	DIN EN ISO 4254-1 (09/16) DIN EN ISO 4254-7 (12/19)	
Geschehen zu <i>Done at</i>	Schoental	
am <i>on</i>	03/03/23	
	 Rolf Zürn Geschäftsführer, CEO	

Contacts

Ersatzteilbestellung / Spare parts order / Commande des pièces:

Tel.: 0049 (0) 6297 / 92885-27

Fax. 0049 (0) 6297 / 92885-19

E-Mail: parts@zuern.de

Zürn Harvesting GmbH & Co. KG
Eichenstraße 27
D-74747 Ravenstein- Merchingen

Tel.: +49 6297 92885-0
Fax: +49 6297 92885-19
E-Mail: info@zuern.de

Internet: www.zuern.de