OPERATOR'S MANUAL

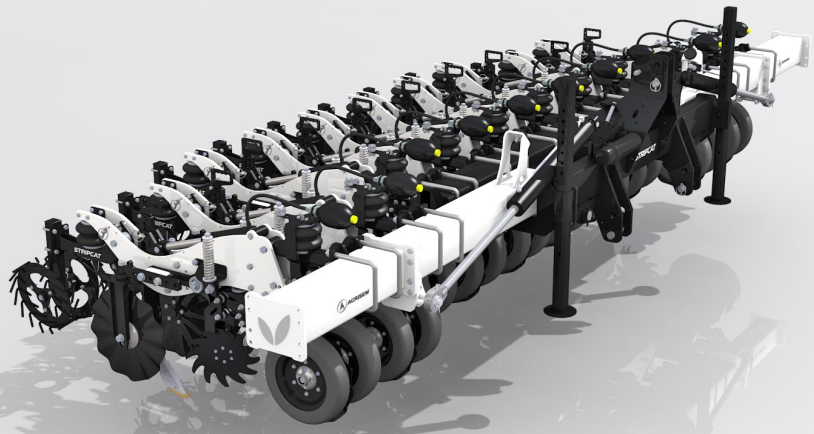
EN

(ORIGINAL INSTRUCTIONS)

Machine number

STRIPCAT

Fixed mounted and folding mounted versions



AGRISEM®

Quick start STRIPCAT

STRIPCAT quick start

Preparing the tractor

1. Check the pressure of the tires.

- It must be identical on each side of the tractor, both at the front and back.

2. Adjust the length of the lower link arms.

- Adjust the length of the link arms so that the hitch is perfectly horizontal for operation. The arm lengths must be adjusted so that at least 30 mm of chrome remains visible on the lifting cylinders when in operation.

3. Adjust the lateral play of the link arms.

- Transport position: fixed.

- Working position: fixed.

4. Check the 3rd link of the hitch.

- The connection between the top link of the tractor and the implement must be made by means of a ball joint and not by an automatic hook

Hitch

5. Hitch the lower arms.

6. Attach the top link.

7. Make sure that there are no obstacles between the implement and the tractor.

- There must be no possibility of the implement touching the tractor.

- There should never be any contact between the lower arms of the tractor or the top link and the draw bar couplings of the implement when it moves from the raised position to the working position

8. Connect the hydraulic hoses.

9. Connect the hydraulic hose.

Field adjustment

10. When working, the implement must be level at the desired speed and depth.

11. Adjustment of elements.

- Adjust the working depth and level the implement.

- Adjust the components to obtain good levelling and a perfect finish.

Maintenance

12. Service the implement as any other agricultural equipment, follow the recommendations in the manual

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INTRODUCTION

USE

MAINTENANCE

INTRODUCTION

1 Instructions

1.1 Product documentation

This manual forms an integral part of the implement, and in the event of sale, it must be passed on with the implement in compliance with the applicable regulations.

- Read this manual carefully so that you understand all the information contained, ensuring completely safe operation and service. We reject any liability for damages caused by non-observance of the instructions in this manual.

1.2 Explanation of symbols

CAUTION:
Risk of physical injury.
Risk of damage to the implement or to its surroundings.

DANGER:
Risk of electric shock.

IMPORTANT:
Useful information.

1.3 Regulations and legal provisions

1.3.1 CE label

The CE label shows that the implement described in this manual complies with the following directive:

- Machinery directive (directive 2006/42/EC).

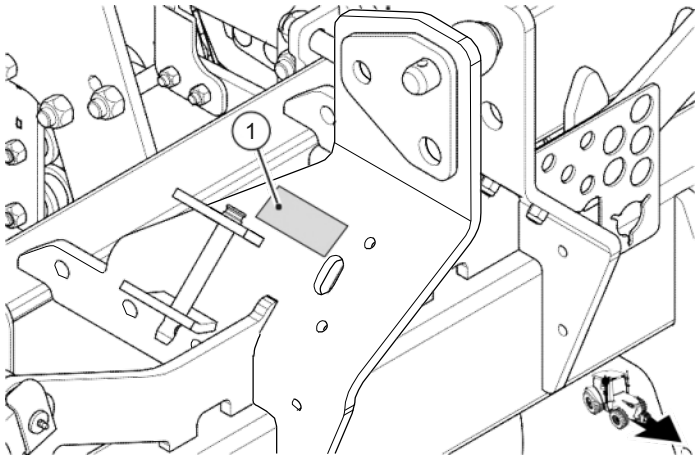
1.4 Identification of your equipment

1.4.1 Type plate

The type plate contains the following information:

Legend
1 Implement serial number
2 Model type of implement
3 Address and country of manufacture
4 Name of manufacturer
5 Year and month of manufacture of implement
6 Weight

1.4.2 Location of type plate



Legend
1 Type plate

1.4.3 Identification of your equipment

Please enter below the date of purchase, the model and serial number of your implement (refer to the type plate). This information will be required for all orders for replacement parts or service.

Fill out and return the registration form (4 parts) for the warranty.

Purchase date: .....

Model: .....

Serial number: .....

Telephone number of your agent or dealer: .....
.....

1.5 Associated documents

- 1 operator's manual.
- 1 catalogue of replacement parts.

2 Safety instructions and rules

2.1 Safety instructions

2.1.1 General instructions

CAUTION:
The risks of accidents during use, maintenance or repair of the implement can be reduced if you follow the safety instructions and preventative measures described in this manual.

- Only the operations and manoeuvres described in this manual may be performed. The manufacturer is not able to predict all possible situations involving risks. As a result, the safety instructions described in the manual and on the implement are not exhaustive.
- As a user, you must make reasonable allowance for possible risks to yourself, others and implement while you are using it.

CAUTION:
Non-observance of safety and usage instructions, repair or maintenance instructions for your implement can result in serious, even fatal accidents.

2.1.2 Operator qualification

- The implement may only be used, serviced or repaired by persons who are familiar with its specific characteristics and with the corresponding operational safety modes.
- Before using your implement, familiarize yourself with all the controls and with its proper operation.

2.1.3 Hitching and unhitching the implement

- If there is only one operator, then the driver himself is responsible for hitching and unhitching the implement. Use the external lift controls.
- Make sure that no-one can get between the tractor and the implement or come close to the implement during the hitching and unhitching operations.
- Before getting out of the cab to hitch or unhitch the implement, apply the parking brake, stop the engine and take out the tractor ignition key.
- Before hitching your implement, make sure that there are no signs of wear, incipient cracks or any incompatibility with your tractor on the hitching pins, draw bar hitches or the ball joints.
- Depressurize the hydraulic circuit before connecting or disconnecting the hydraulic couplings.
- Connect or disconnect the electrical connections.
- Completely lower the implement to the ground before unhitching it. Make sure that the surface is level and sufficiently firm to ensure that the implement is perfectly stable during storage.
- If your implement is parked, make sure that it is stable to avoid the possibility of physical injury or material damage.

2.1.4 Hydraulic circuit and couplings

CAUTION:
The hydraulic circuit is subject to high pressures.

- If hydraulic fluid should escape, avoid any direct contact with the hydraulic fluid. The pressurized oil can penetrate the skin and cause fatal injuries. **Immediately consult a doctor in the event of injury.**
- Observe the order of assembly of the hydraulic couplings. Ensure that the tractor couplings are properly positioned horizontally or vertically.
- Before connecting the hydraulic circuit, clean the couplings on the tractor and implement, and check that the pressure is zero both on the tractor and implement side.
- Replace damaged or used hydraulic lines, observing the dimensional specifications.
- For all actions on the hydraulic system, set the implement down on the ground, depressurize the hydraulic circuit, stop the tractor engine and actuate the hydraulic valves.

2.1.5 Pneumatic circuit and couplings

- Observe the order of assembly of the pneumatic couplings.
- Before connecting the pneumatic circuit, clean the couplings on the tractor and implement, and check that the pressure is zero both on the tractor and implement side.
- Replace damaged or used pneumatic lines, observing the dimensional specifications.
- Before working on the pneumatic system, set the implement down on the ground and depressurize the pneumatic circuit.

2.1.6 Use of the implement

- This implement is exclusively designed for standard agricultural work. Any other use is considered to be contrary to the implement's normal use and is thus prohibited.
- Do not attempt to adjust an implement when this is in motion.
- Do not enter the pivoting range of bolted, hydraulic or mechanical locking elements.
- Wear clothing and personal protection equipment suited to the work to be performed (thick leather gloves, safety boots, protective glasses …).
- Create a safety perimeter for other persons.
- Do not perform any adjustment work without first having perfectly understood the required procedure.
- Use suitable tools or equipment for the work to be performed.
- Correctly use the implement and its controls, do not let untrained persons attempt to operate it.

- Do not extend the mechanical adjusting rods to avoid the risk of threads being torn or spontaneous unscrewing.
- When working alone, the operator must be in his cab and may never leave his seat. No-one may ride or stand on the implement when it is in operation.
- Stop the implement if you notice unusual noises or vibrations. Identify and eliminate the cause before resuming work.

CAUTION:
If the implement is equipped with a hydraulic folding mechanism, only actuate this from the tractor cab. Make sure that there is no possibility of anyone being in the pivoting zone of the side sections or of the rear accessories.

2.1.7 Transport on the public highway

- The implements must always be transported in accordance with the applicable directives and regulations relating to the prevention of accidents, road safety and occupational health.
- Before transporting the implement, ensure that the wheel studs and the fixing bolts for tandem implements (if the implement is equipped with the latter) are secure. Check the pressure and condition of the tires:
  - Do not drive on roads with low pressures, or with damaged tires or wheel rims.
- During road transport, use all the lighting and signal devices required by the law applicable in the country of use. If required, they can be retracted during field work to avoid any damage to them.
- The user is responsible for compliance with the applicable regulations and keeping up to date with changes.
- Regularly check the condition and fixing of the hitching pins and do not hesitate to replace them if they are worn.
  The tractor hitch ball joints may also show signs of wear; do not hesitate to replace them with new ones.
- Drive at a reasonable speed and in compliance with legislation so that you are always in control of the hitched assembly. Be especially careful in rough terrain or on slopes. Before starting to drive downhill, shift into low gear.
- The tractor used for transporting the implement on road must have the same weight and same power rating as that used for field work.
- Never attempt manoeuvres when anyone else is in the vicinity of the implement or the tractor.
- For implements equipped with a fold-in mechanism for transport, make sure that no persons or objects are present in the danger zone when the respective sections are being folded in.
- Observe all the common sense rules when driving, especially in bends in the road and where it is narrow.
- Take all required precautions before leaving the tractor. Apply the parking brake, stop the engine and take out the ignition key.
- It is prohibited for anyone to ride on the implement or between the implement and tractor when driving on public highways.

2.1.8 Maintenance

- The maintenance area must be clean, dry, well ventilated and well lit.
- If it is necessary to work on or remove an implement subassembly in a raised position, prop up the implement in a systematic manner by means of suitable and sufficiently strong supports.
- For repairs to components under pressure or under tension (accumulators, springs, etc.) refer to the specific procedures and equipment. Such repairs must only be performed by qualified persons.
- After the work is completed, make sure that all equipment and tools used have been removed.
- Regularly check that the wheels studs, the lower fixing nuts for wearing parts, screws and bolts are secure.
- Always use original replacement parts as only these meet the manufacturer's technical specifications.

2.1.9 Loading and unloading

- Loading and unloading with a tractor.
- Hitch the implement to or unhitch it from the tractor before loading it onto a truck or unloading it from a truck.
- Loading and unloading the implement: an assistant is required to guide the manoeuvres.
- Attach or remove the transport safety devices.
- Loading and unloading with the aid of a crane.

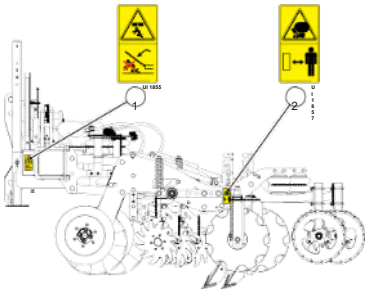
CAUTION:
Only attach the lifting gear to the specified fixing points with the aid of suitable fixings. Never stand under a raised or unsecured load.

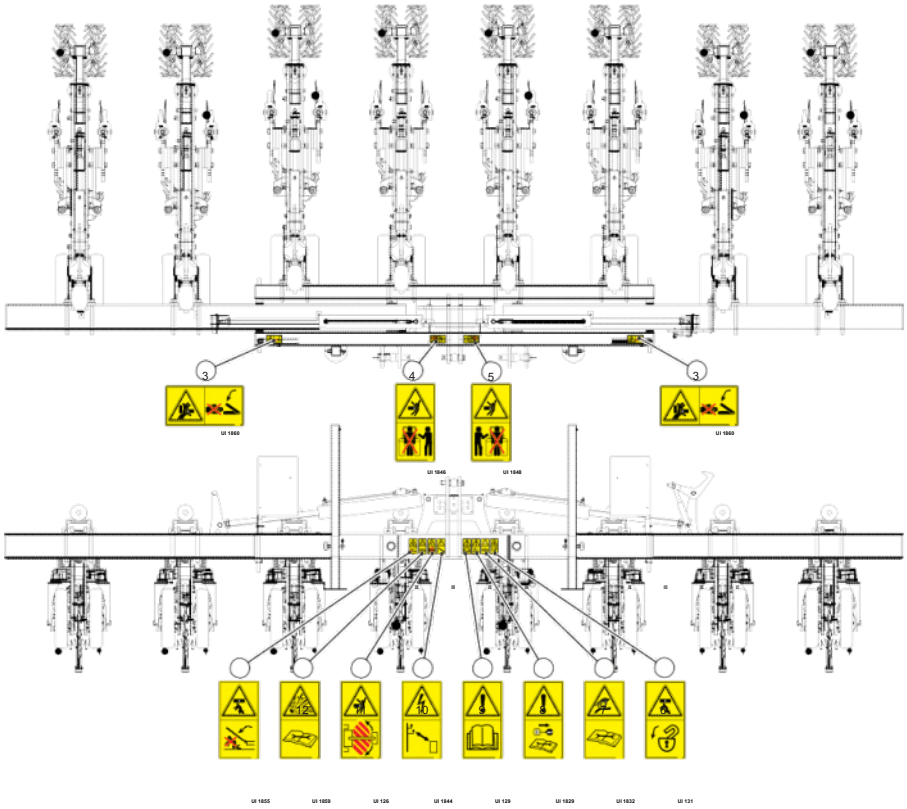
2.1.10 Safety stickers

CAUTION:
Take care not to damage the safety stickers when washing the implement.

IMPORTANT:
Replace damaged or missing stickers.

Locations of the safety stickers:
E.g. 8-row folding STRIPCAT with non-stop hydraulic safety system.

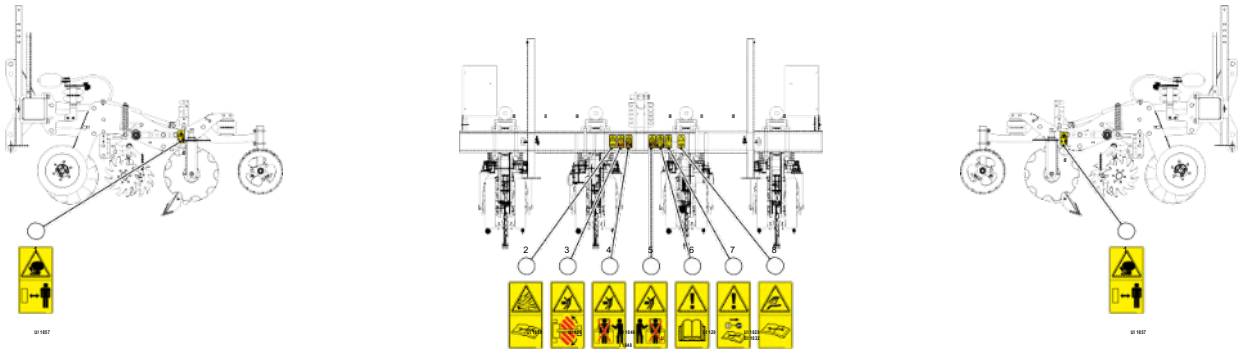




Legend

1 "Unfolding zone" sticker
2 "Risk of crushing feet in this zone" sticker
3 "Crushing hazard zone" sticker
4 "Stay outside right-hand working zone" sticker
5 "Stay outside left-hand working zone" sticker
6 "Locking device" sticker
7 "Hydraulic leak" sticker
8 "Stop engine and remove the key" sticker
9 "Read the operator's manual" sticker
10 "Stay away from power lines" sticker
11 "Pivoting zone" sticker
12 "Accumulator explosion zone" sticker

E.g. 4-row folding STRIPCAT with non-stop hydraulic safety system.



Legend

1 "Risk of crushing feet in this zone" sticker
2 "Accumulator explosion zone" sticker
3 "Pivoting zone" sticker
4 "Stay outside right-hand working zone" sticker
5 "Stay outside left-hand working zone" sticker
6 "Read the operator's manual" sticker
7 "Stop engine and remove the key" sticker
8 "Hydraulic leak" sticker

Explanation of stickers

Sticker	Description
	**Stay clear when unfolding** Maintain a safe distance from all moving parts when unfolding.
	**Crushed feet zone** Maintain a safe distance from all moving parts.
	**Crushing hazard zone** Never work in a zone where there is a risk of crushing while the parts are able to move.
	**Stay outside left-hand working zone** Always stay out of the working area of the three-point linkage when using the remote control.
	**Stay outside right-hand working zone** Always stay out of the working area of the three-point linkage when using the remote control.
	**Locking device** Install the locking device before carrying out any work in the danger zone.
	**Hydraulic leak** Follow the instructions of the operator's manual when performing servicing operations.

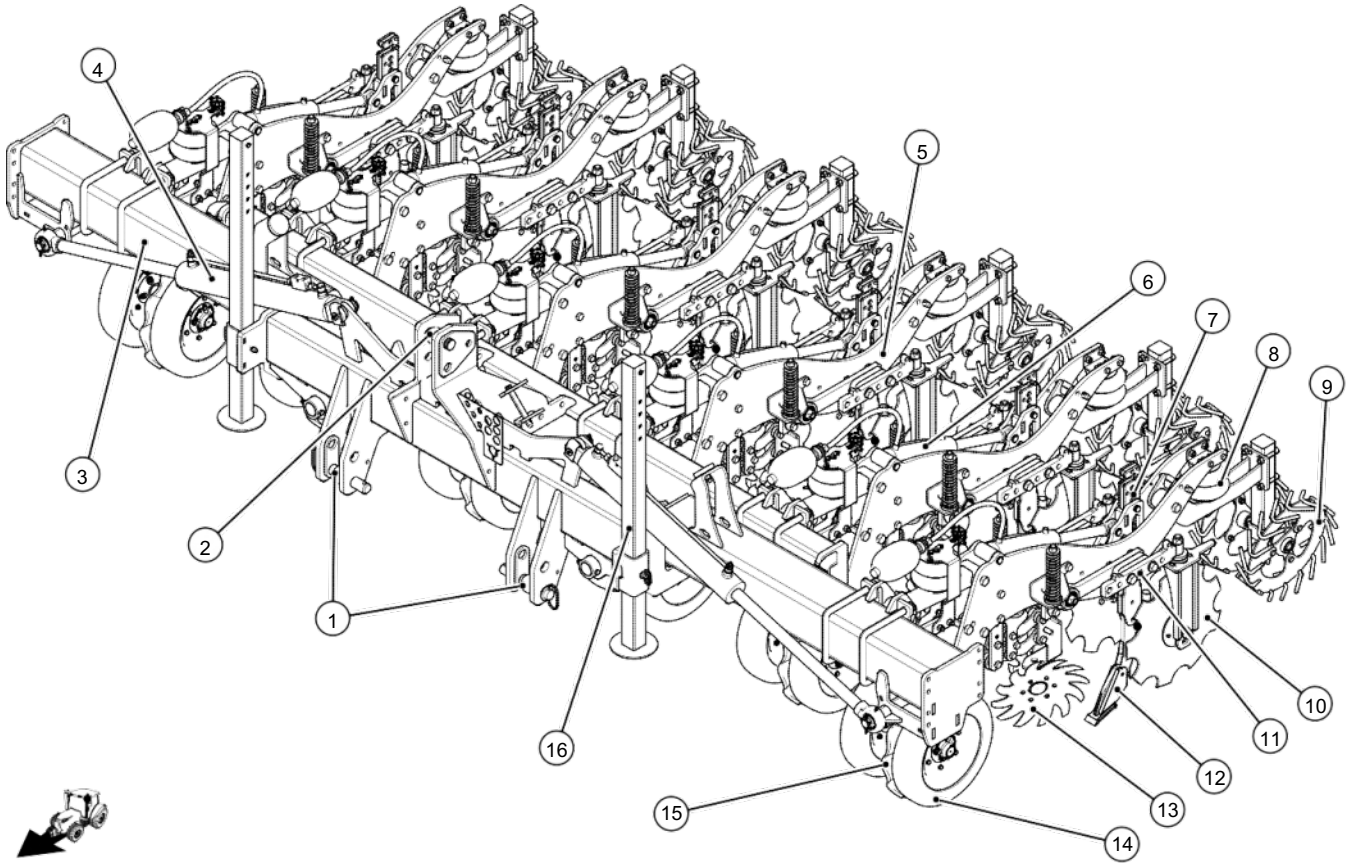
Sticker	Description
	**Stop engine and remove the key** Stop the engine and remove the ignition key before any maintenance or repair work.
	**Read the operator's manual** Read the operator's manual and the safety instructions before starting up the implement and take account of them during operation.
	**Stay away from power lines** Stay well away from high-voltage power lines
	**Pivoting zone** Remain outside the pivoting zone.
	**Accumulator explosion zone** The hydraulic accumulator contains gas and oil under pressure. Follow the instructions given in the operator's manual for removal and repair operations.

USE

3 Description of the Implement

3.1 General views

E.g. 6-riow folding mounted Stripcat with non-stop hydraulic safety system



Legend

1 Lower hitch pins
2 Upper hitch pin
3 Frame
4 Folding cylinder
5 Parallelogram element
6 Hydraulic cylinder
7 Working depth adjustment
8 Pneumatic depth control system
9 Finger roller
10 Deflector disc
11 Angle and width adjustment
12 Tine
13 Trash wheel
14 Gauge wheel
15 Disc-opener

3.2 Technical specifications

Part	Standard equipment	Optional equipment
Hitch	- Three-point linkage cat. III	
Frame	· Square tube 180x180 mm.	
Working width	- Spacing between elements: 750 mm - Fixed frame: 3.00 m (4 elements). - Folding frame: 4.50 m (6 elements). 6.00 m (8 elements).	
Disc	- Disc-opener (Ø 460 mm). - Deflector disc (Ø 460 mm). - Mechanically adjusted trash wheel.	Floating pneumatic trash wheel.
Tine	· Standard tine with 3-point fitting option	
Safety devices	· Mechanical	Non-Stop hydraulics
Signaling	· Lighting kit	
Other	· Storage support legs.	

Contact your dealer for the different attachment and optional equipment assemblies.

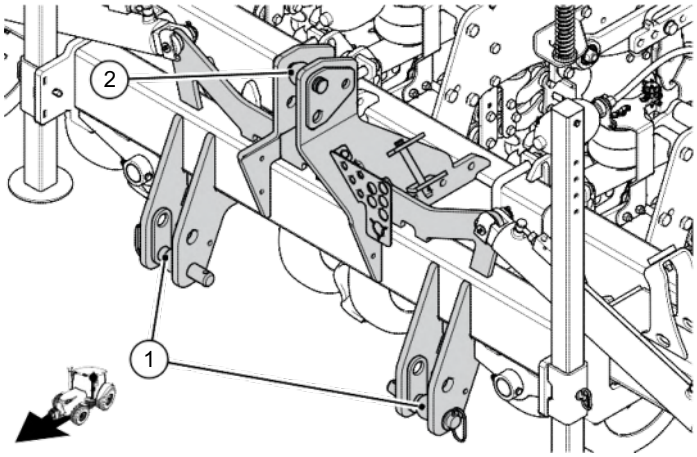
3.3 Dimensions and weights

IMPORTANT:
The implement dimensions and weights are provided for information purposes; they may vary according to options and equipment.

IMPORTANT:
After use, the weight of the implement may be increased by the accumulation of soil or residues.

Element spacing (mm)	Number of elements	Working width (m)	Width during transport (m)	Weight (kg)	
				Without options	With all options
750	4	3.00	3.00	1,220	1,300
	6	4.50		2,180	2,300
	8	6.00		2,690	2,850

3.4 Linkage



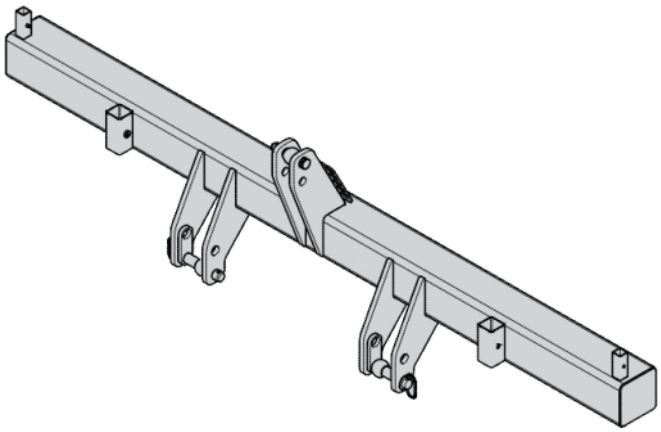
Legend
1 Lower linkage
2 Top linkage

The linkage comprises the following components:

- Lower coupling point (1) designed for cat.III.
- Upper coupling point (2) for the top link.

3.5 Frames

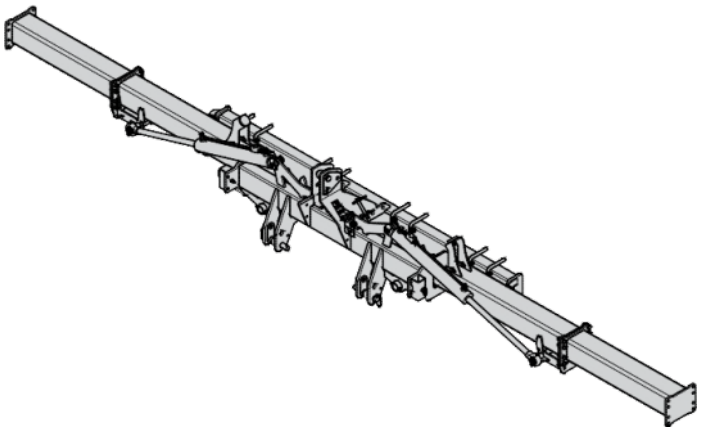
3.5.1 Fixed



A sturdy, solid frame consisting of:

- 180x180 mm tube.
- Reinforced coupling points.

3.5.2 Folding

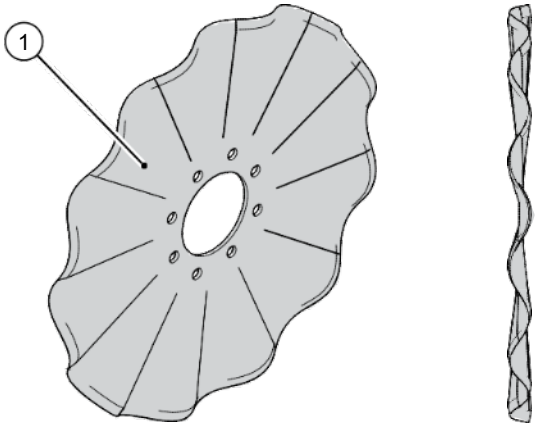


A sturdy, solid frame consisting of:

- 180x180 mm tubes.
- Reinforced coupling points.
- Reinforced folding cylinder coupling points.

3.6 Equipment items

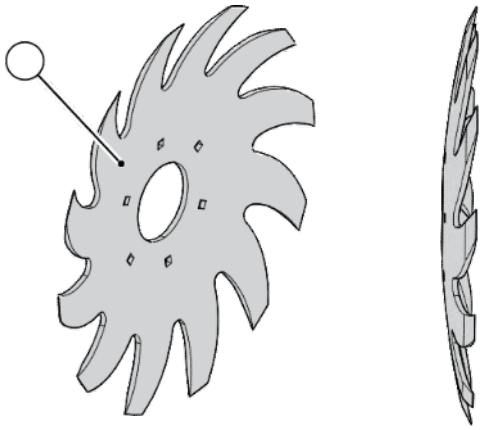
3.6.1 Disc-opener



Legend
1 Disc-opener

The implement is equipped with Ø 460 mm disc furrow-openers. The disc opens the seeding line and cuts through vegetable waste.

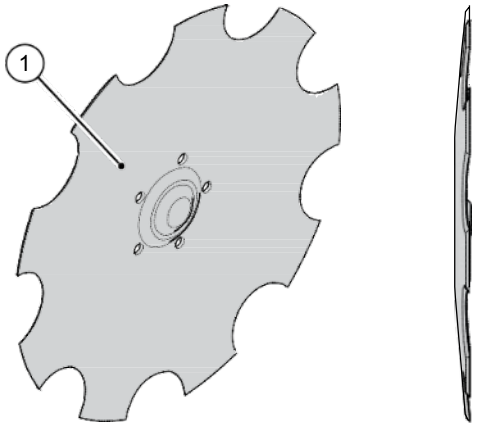
3.6.2 Trash wheel



Legend
1 Trash wheel

The implement is equipped with Ø 460 mm disc furrow-openers. The trash wheel clears plant waste from the seeding line.

3.6.3 Deflector disc

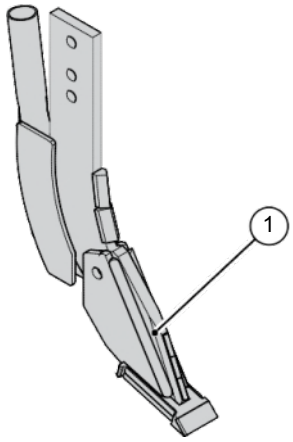


Legend
1 Deflector disc

The implement is equipped with a Ø 460 mm deflector disc. The deflector disc guide the soil over the seeding line and controls the width of worked strip.

Your implement can optionally be fitted with a number of discs. Consult your dealer.

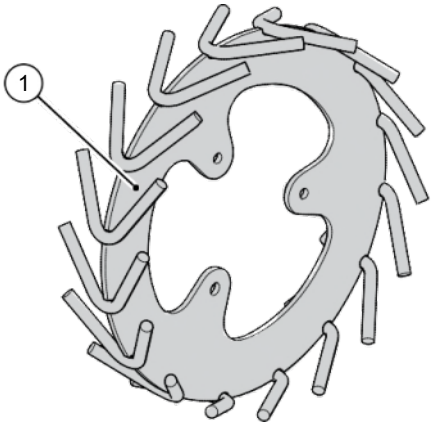
3.6.4 Tine



Legend
1 Tine

Your implement can (optionally) be fitted with a number of tines.

3.6.5 Roller

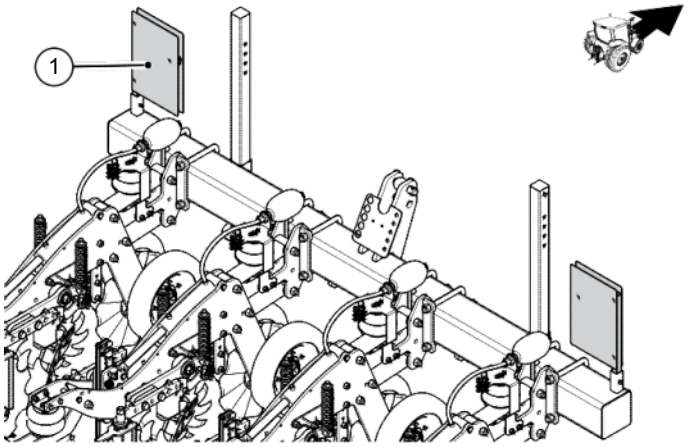


Legend
1 Roller

Your implement can (optionally) be fitted with a number of rollers.

3.7 Lighting and signals (standard)

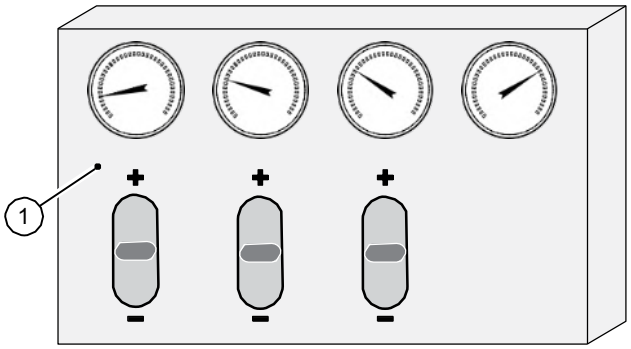
IMPORTANT:
The user is responsible for ensuring the compliance of the hitched assembly with the applicable regulations for transport on the public highway.



Legend
1 Indicator light set

Signaling and lighting kits are available for all implements. Consult your dealer.

3.8 Pneumatic control unit



Legend
1 Pneumatic control unit

The pneumatic control unit (1) adjusts the pressure of the parallelogram, the height of the trash wheel and the pressure on the rollers.

4 Preparing the tractor

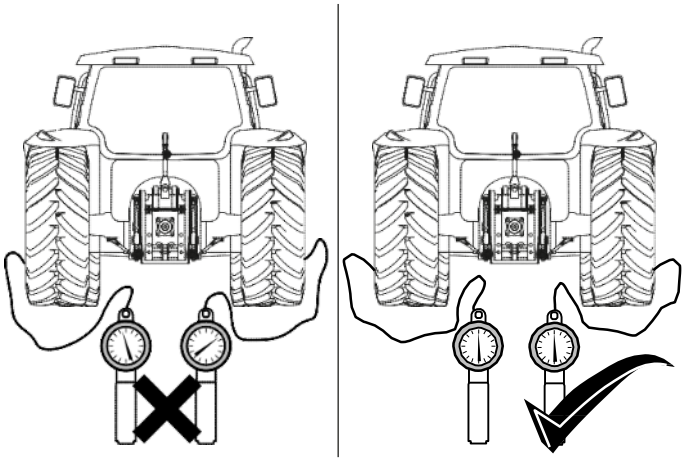
4.1 Required tractive power

The power required to tow your implement varies according to the soil texture, the working conditions and the tractor equipment (tires, front ballast, etc.).
The following technical specifications are provided as a guide. For additional information, consult your dealer.

Number of elements	Working width (m)	Max. Tractor Power (HP)
4	3.00	120
6	4.50	160
8	6.00	200

4.2 Tractor wheels

4.2.1 Tractor tires



Check the general condition and the pressure of the tractor tires (refer to the tractor operator's manual). The pressure must be identical on both sides of the tractor to ensure that the implement is level.

IMPORTANT:
Inflate the tires to the pressures specified by the manufacturer.

4.3 Ballasting the tractor

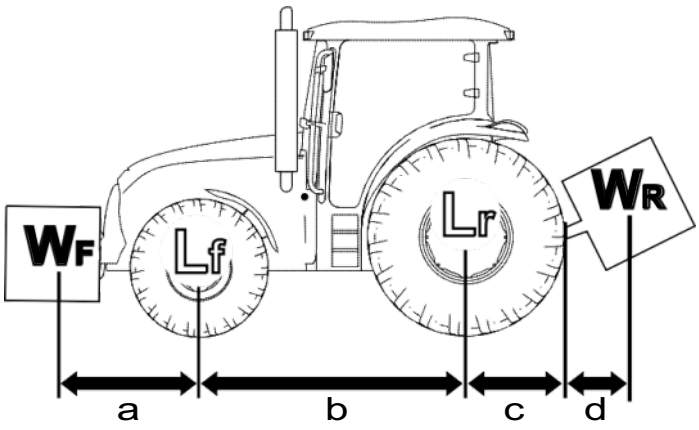
The implements hitched to the front and rear of the tractor may not exceed the total permissible load, the permissible axle loads and the tire specifications.

It is essential that the tractor's front axle is able to support at least 20% of the tractor's dead weight. If necessary, ballast your tractor.

Before driving on the road, always make sure that the tractor is not overloaded and that it is suitable for the hitched implement.

- Specifications for calculation:

IMPORTANT:
Weights are stated in kilograms (kg), lengths in meters (m).



Legend
We Tractor dead weight
Lf Front lifting capacity of unladen tractor
Lr Rear lifting capacity of unladen tractor
Wf Total weight of tractor and equipment hitched to front
Wr Total weight of tractor and equipment hitched to rear
a Distance between center of gravity of front-mounted implement and the front bearing axle
b Tractor wheelbase
c Distance from the center of the rear axle to the center of the draw bar
d Distance between the center of the d raw bar and the center of gravity of the hitched implement
x Manufacturer specifications for tractor for minimum rear ballasting. If no weights specified, apply a coefficient of 0.45

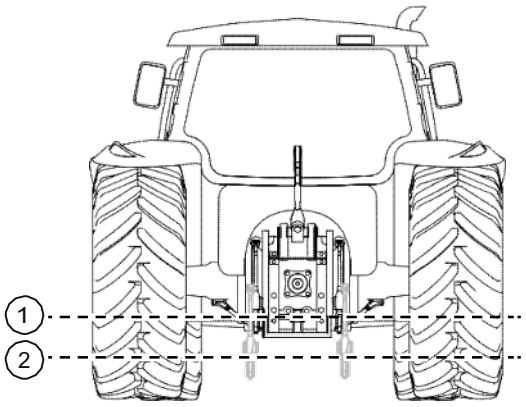
Formulae and calculation method

- The method of calculation of the minimum front ballast for a tool hitched to the rear: enter the result in the table.
- Method of calculating the minimum rear ballast for a heavy tool hitched to the front: enter the result in the table.
- Description of load acting on the axle: enter the value for the effective load on the front axle and the permissible weight obtained from the tractor operator's manual.
- Calculate the total actual weight: enter the value for the effective total weight and the permissible weight obtained from the tractor operator's manual.
- Calculating the effective load on the rear axle: enter the value for the effective load on the rear axle and the permissible load on the rear axle obtained from the tractor operator's manual.

	Actual values		Permissible values		Values x2 the permissible capacity of the tires
Min. ballasting Front/Rear	Kg				
Total weight	Kg	≤	Kg		
Front lifting capacity	Kg	≤	Kg	≤	Kg
Rear lifting capacity	Kg	≤	Kg	≤	Kg

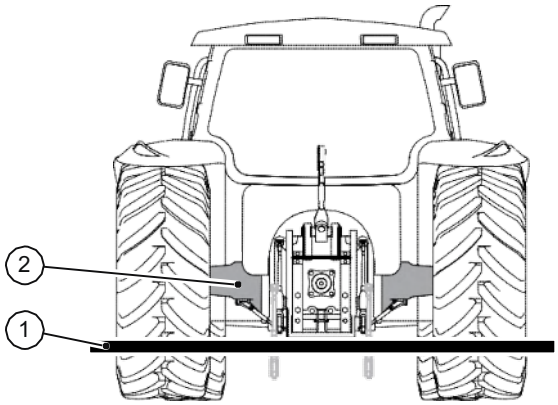
The results must be lower than or equal to the permissible values.

4.4 Length of the lifting links



Legend
1 Raised position
2 Lowered position

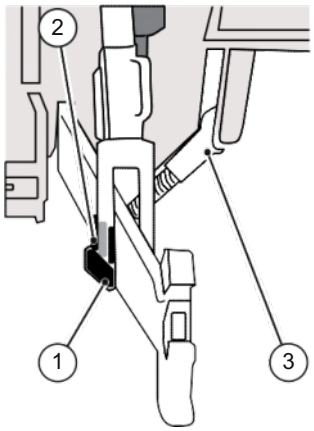
The length of the link arms determines the balance of the hitch and the position of the lifting cylinders while working (ensures symmetrical working between left- and right-hand sides).



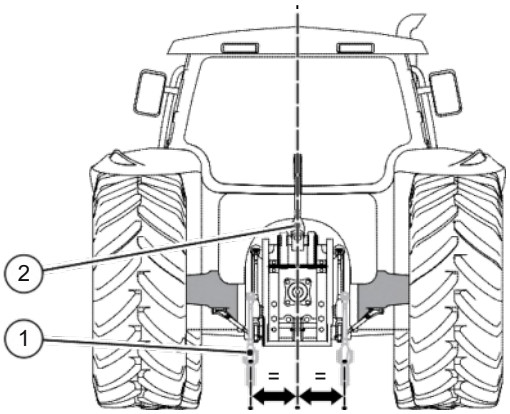
Legend
1 Straight-edge
2 Axle

- Adjust the length of the links using a straight-edge (1) links so that the hitch is horizontal to the axle (2).
- Adjust the length of the links so that in the working position at least 30 mm of lifting cylinder travel remains. This allows the amplitude of the hitch height to be adjusted from the driver's cab and the tractor's slip control device to be correctly operated (draft control).

4.5 Position of the stabilizers



Legend
1 Operating clearance
2 Pins
3 Tie rod

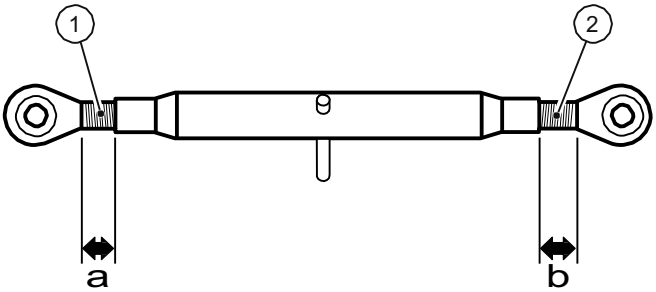


Legend
1 Stabilizer
2 Centerline

Ensure that the stabilizers (1) are equi-distant from the tractor centerline (2).

IMPORTANT:
Grease and remove rust etc. from stabilizer bolts and threads (rods or shims) before hitching the implement to the tractor. The horizontal axles (3) of the links must be fixed to avoid any undesired or unanticipated potentially dangerous play.

4.6 Top link.



Legend
1 Length A
2 Length B

Before hitching the implement, make sure that the thread lengths (1 and 2) on each side of the top link are identical.

IMPORTANT:
The exposed threaded lengths (1 and 2) must not differ by more than 5 mm.

IMPORTANT:
Excess grease inside the top link can block the link bar. Remove the lubricating nipple and remove the excess grease.

CAUTION:
Use a ball joint to connect the top link at the implement end.

CAUTION:
Do not use automatic hooks.

- The size and shape of the hook jaw varies according to the manufacturers and models, which may, in some cases, result in a risk of interaction with draw bar yokes.
- The automatic spring latch may cause blocking in rotation of the ball joint that can cause it to become worn or to fail. This phenomenon is accentuated on Cat. III hitches: the larger the diameter of the pin, the smaller the amount of material for the lower ball joint, which makes it less resistant.

Legend
1 Ball joint
2 Automatic hook

5 Hitching and unhitching

5.1 Hitching the implement to the tractor

CAUTION:
Make sure that hitching the implement does not result in:
- Overloading:
Observe the maximum permissible load at the hitching points.
- Poor distribution of loads:
Ballast the tractor at the front (see § 4.3).

5.1.1 Tractor equipped with link arms with fixed ball joints

IMPORTANT:
Ensure that the ball joint diameters (tractor-side) and the implement pins are compatible.

- Remove the implement hitching pins by first removing the safety pins.
- Back up the tractor and align the ball joints on the lower link arms and the corresponding holes on the implement side.
- Insert the pins and lock them with the safety pins.
- If the holes are difficult to align: release the telescopic arms (see tractor operator's manual), once the pins are correctly positioned and locked, back up the tractor until the telescopic arms return to their correct position and relock themselves. Check that the mechanism has re-engaged.
- Proceed with attachment of the top link.

5.1.2 Tractor equipped with link arms with removable ball joints

- Remove the hitching pins by taking out the safety pins.
- Take out the removable ball joints of the quick-action hitching jaws of the tractor's lower link arms.
- Check the correspondence between the diameters of the ball joints and of the pins.
- Place the ball joints on the pins. Put the pins back onto the implement, not forgetting the safety pins.
- Back up the tractor until the quick-action hitching jaws of the lower link arms are under the pins (with the ball joints fitted) of the implement.
- Raise the lifting mechanism until the jaws fit around the ball joints.
- Raise the implement about 5 cm above the ground and check the positioning of the ball joint locking mechanism in the jaws.
- Proceed with attachment of the top link.

CAUTION:
Before proceeding to connect the top link, make sure the space between the implement yoke and the lower arms of the tractor is sufficient, so that there is no possibility of contact between the raised position and the working position. A second check must be performed in the field, when the implement is under actual working conditions.

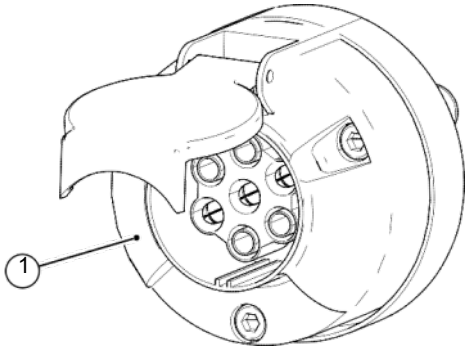
5.1.3 Attachment of the 3rd link

Once the lower tractor arms are hitched and the latch is released, connect the top link.

Raise the implement and make sure there is no collision with the tractor.

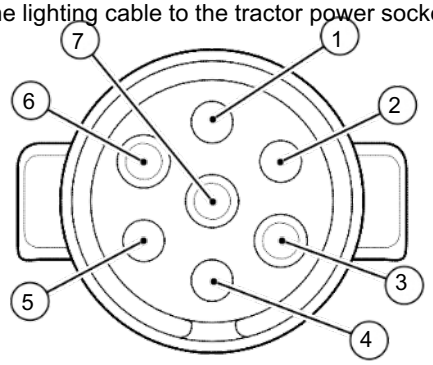
IMPORTANT:
Check that the space between the implement yoke and the tractor top link is sufficient to prevent any contact between the raised position and the working position. Perform a second check at the workplace (field), when the implement is under actual working conditions.

5.1.4 Electrical connection of the signaling equipment



Legend
1 Tractor power socket

- Connect the lighting cable to the tractor power socket.



Legend
1 Left-hand direction indicator (yellow)
2 Free
3 Ground (white)
4 Right-hand direction indicator (green)
5 Right-hand tail light (brown)
6 Stop light (red)
7 Left-hand tail light (black)

5.2 Unhitching the implement from the tractor

CAUTION:
Make sure that there is no-one in the vicinity of the implement before lowering it.

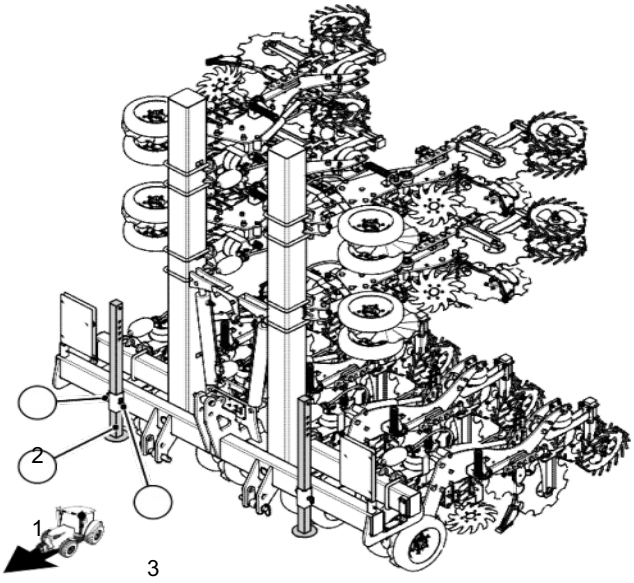
IMPORTANT:
Before detaching the implement, make sure that the ground is sufficiently level and firm. On moist ground, place wooden blocks under the support legs.

- Proceed in reverse order to attachment to detach the implement:

- Place the implement in the working position.
- Lower the implement to the ground.
- Detach the top link.
- Disconnect the tractor power socket.
- Depressurize the hydraulic circuit, disconnect the hydraulic couplers (according to model).
- Unhook the lower link arms.

5.2.1 Support legs

IMPORTANT:
For fixed or folding implements.



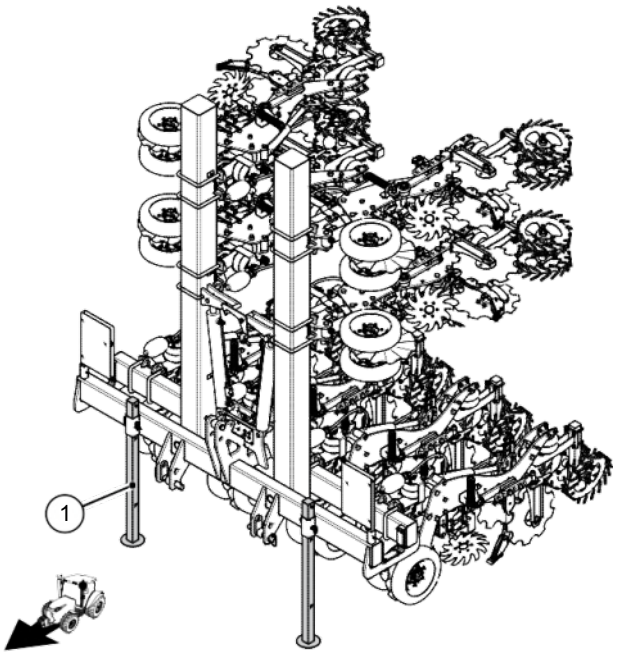
Legend
1 Front support leg
2 Safety pin
3 Retaining pin

- The implement is equipped with two support legs located either side of the hitch pins.
- With the implement hitched, raise it using the tractor's lifting mechanism, until the support legs (1) are lifted off the ground.
- Remove the safety pin (2).

Remove the retaining pin (3).

- Lower the support leg (1) into the desired position.
- Refit the retaining pin (3).
- Refit the safety pin (2).
- Set the implement down on the ground.

Unhitched position

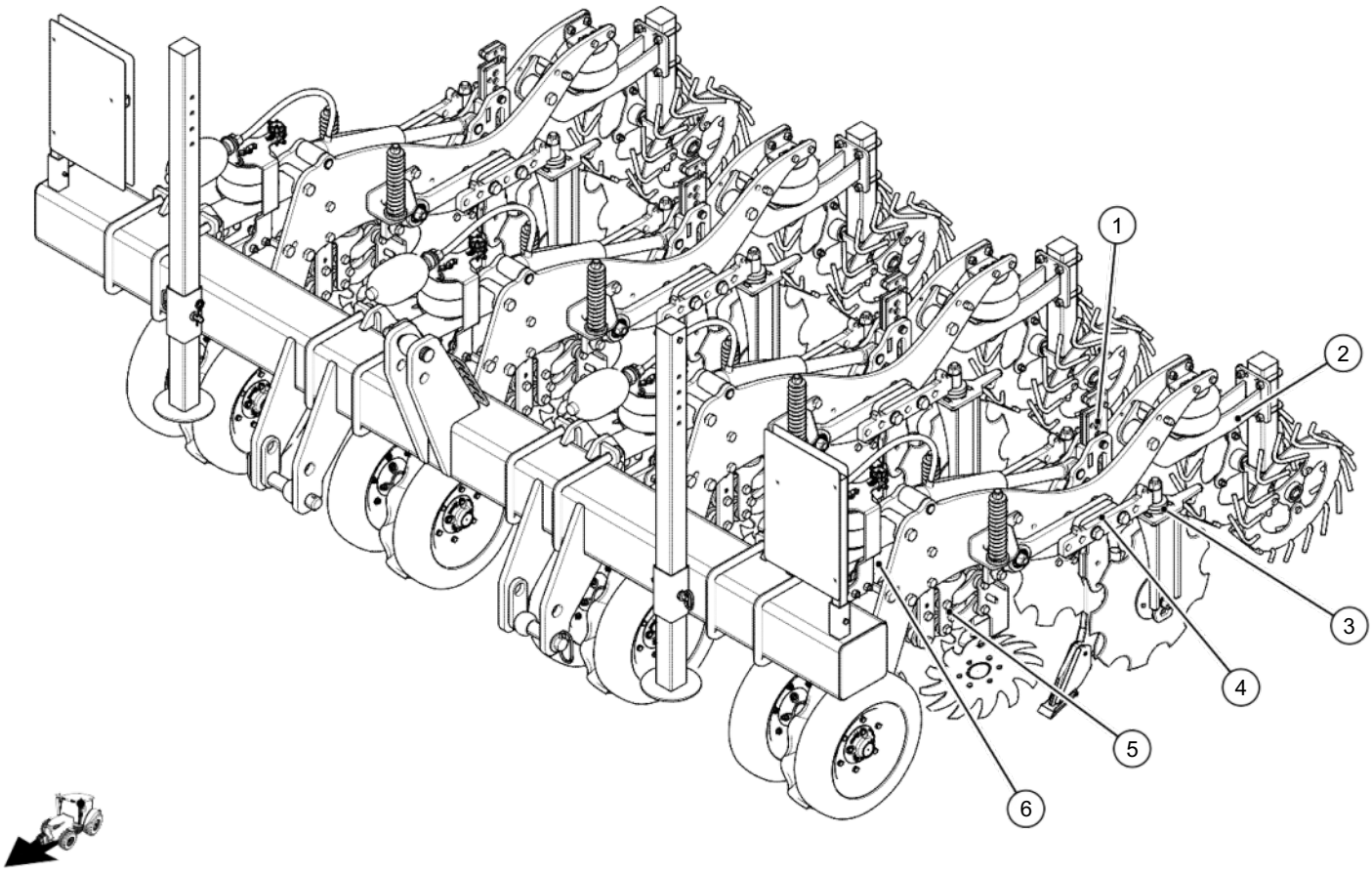


6 Preparing the Implement before work

6.1 Locating the adjustment points

- Locate the various adjustment points.
- Make sure that they are functioning properly and that they are well lubricated. Perform the checks before setting out for the fields.

E.g. 4-row fixed Stripcat.



Legend

1 Tine depth adjustment
2 Press roller adjustment
3 Deflector disc angle adjustment
4 Arm width adjustment
5 Trash wheel adjustment (optional)
6 Parallelogram adjustment

7 Hydraulic connections

7.1 Required hydraulic control valves

For folding STRIPCAT

- 1 Double-acting (DA) valve for folding and unfolding the side frames.
- 1 Double-acting (DA) valve for hydraulic adjustment of non-stop safety system (optional).

For fixed STRIPCAT

- 1 Double-acting (DA) valve for hydraulic adjustment of non-stop safety system (optional).

IMPORTANT:
Pressurized oil may remain in a closed circuit. Return to reservoir allows evacuation of residual pressure.

7.2 Hydraulic pressure

Check the service pressure of the tractor's hydraulic system. Max. pressure: 200 bar / 20 MPa.

- When connecting, ensure that the hydraulic couplings are correctly positioned to avoid any risk of hydraulic fluid escaping.

7.3 Hydraulic connections

- Clean the couplings on the implement and the tractor before connecting the hydraulic circuits.
- Check that the hydraulic couplings of the implement are compatible with those of the tractor.
- Create the following logical connections:

- Assign the most commonly used functions to the most accessible levers.
- Push the control levers to place the implement in the working position (lower/ fold-out).
- Pull the control levers to place the implement in the transport position (raise / fold-in).
- Use colored rings to differentiate the hose lines and their effects.

IMPORTANT:
Check the length of the hose lines; they must not be too short (risk of rupture or tearing), nor too long (trapping or pinching of the hose in the mechanical joints, wheels, etc.).

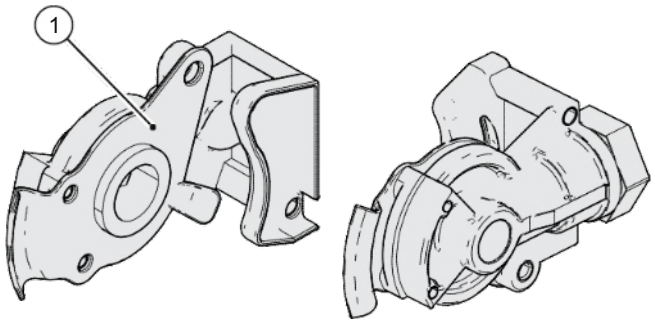
8 Pneumatic connections

8.1 Pneumatic supply

IMPORTANT:
When connecting the pneumatic hose, ensure that:
- The sealing rings of the coupling heads are clean.
- The sealing rings of the coupling heads provide a perfect seal.
- Immediately replace damaged sealing rings.
- Drain the water from the compressed air tank before the first movement of the day.
- Before moving, wait for the tractor air pressure reading to reach a minimum of 5.0 bar.

IMPORTANT:
Begin by disconnecting the air supply line coupling head (red).

Use the tractor's braking system to control the pneumatic system of the implement.



Legend
1 Coupling head

- Connecting the pneumatic system to the tractor.
- Ensure that the coupling head is clean.
- Connect the air supply line coupling head (red).

- Disconnecting the pneumatic system from the tractor.
- Disconnect the air supply line coupling head (red).
- Store the pneumatic hose in the hose cabinet.

8.2 Pneumatic unit

- Clean the couplings on the implement and the unit housing before connecting the pneumatic circuits.
- Connect the couplers according to the color-coded collars:

- Blue, red and green.
- The pneumatic coupler without a colored identification collar serves to provide the implement's pneumatic air supply.

IMPORTANT:

Check the length of the hose lines; they must not be too short (risk of rupture or tearing), nor too long (trapping or pinching of the hose in the mechanical joints, wheels, etc.).

8.3 Pneumatic pressure

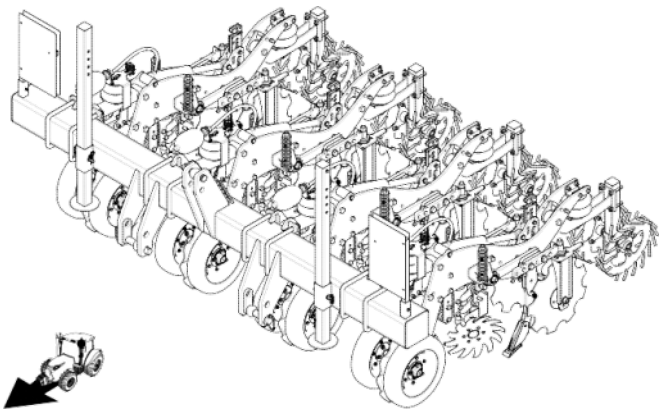
Check the tractor's operating pneumatic pressure using the manometer on the pneumatic unit.

- When connecting, ensure that the pneumatic couplings are correctly positioned to avoid any risk of air leakage.

9 Changing between transport and working position

9.1 Changing to transport position

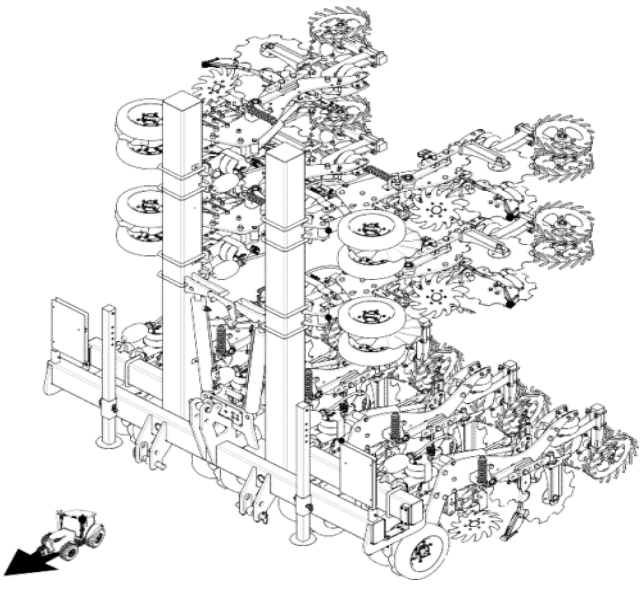
9.1.1 Fixed



Before driving on a public road:

- Connect the top link into a fixed hole.
- Raise the implement to its maximum extent.
- Check the operation and cleanliness of the signaling and lighting device.

9.1.2 Folding



Before driving on a public road:

- Connect the top link into a fixed hole.
- Fold up the two side frames.
- Raise the implement to its maximum extent.
- Check the operation and cleanliness of the signaling and lighting device.

9.2 Changing to working position

9.2.1 Fixed

- Lower the implement.
- Connect the top link into the fixed hole, the implement is now ready for work.

9.2.2 Folding

IMPORTANT:
Before folding down the side frames, check that the storage support legs are folded in.

- Fold down the two side frames.
- Lower the implement.
- Connect the top link into the fixed hole, the implement is now ready for work.

9.3 Driving on the road

CAUTION:
Take account of the overhang when driving on the public highway. Risk of accidents involving other road users. Risk of damage to signposts, telephone poles, etc.

Before driving on a public road:

- Ensure that the legally required signaling and lighting devices (lights, reflectors, etc.) are correctly mounted, clean and in good working order.

On public roads, comply with the Highway Code:

- The tractor towing the implement must be of the same size, weight and power as that used in the field.
- Do not drive at more than 25 km/h (15 mph).
- Drive at a reasonable speed so that the tractor-implement assembly is always under control.
- Do not drive down a hill faster than the maximum possible speed at which it can be climbed.
- Slow down in the corners, and when the road surface is irregular.
- Do not attempt to take tight corners on the brakes.
- Always check the tightness of wheel studs before heading onto a public road. They may be loose due to vibrations.
- Respect the maximum allowable dimensions (width, length, weight). If the maximum dimensions are exceeded, comply with the regulations in force concerning abnormal loads (escort, abnormal load sign, administrative authorization).
- Observe the maximum axle load and the maximum authorised gross laden weight. Ensure that the load on the front axle of the tractor is never less than 20% of the tractor dead weight. If necessary, attach counterweights to the front of the tractor.

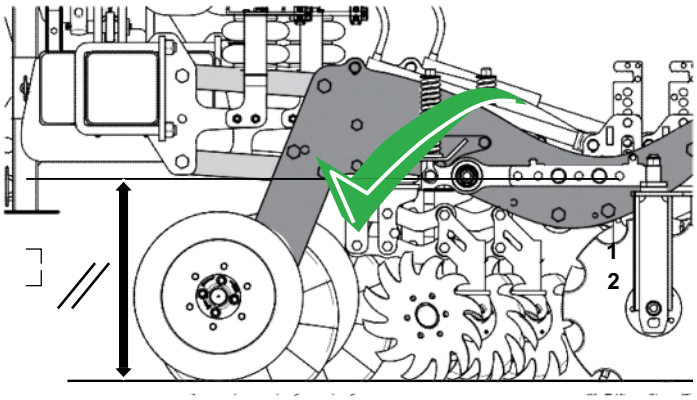
CAUTION:
When towing the implement on the road, the operator is responsible for the entire tractor/ implement(s) train. He is responsible for ensuring compliance with the laws applicable in the country of use (bringing into compliance and monitoring changes in regulations).

10 Field adjustment

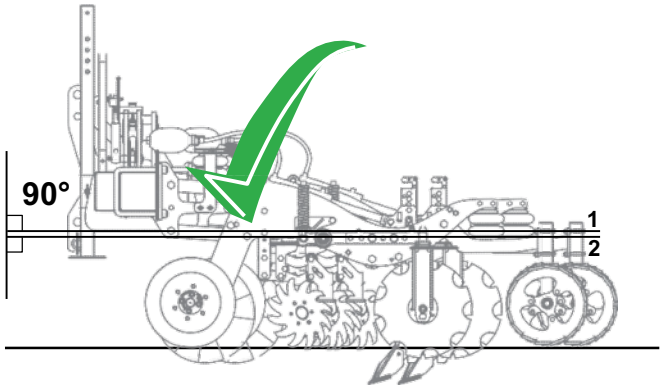
CAUTION:
Read this chapter in its entirety to properly understand all adjustments, the correct order and procedures before starting work.

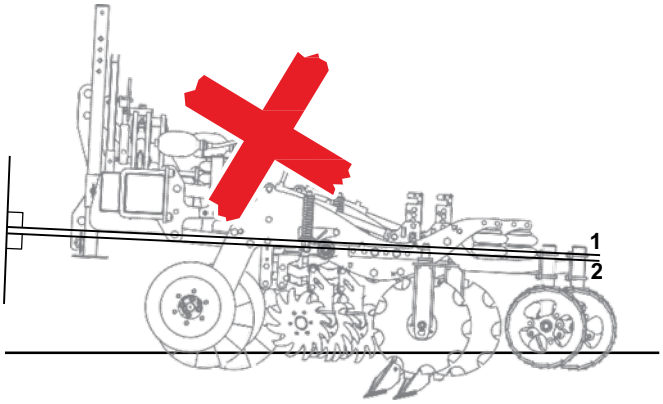
CAUTION:
Perform only one adjustment at a time.

10.1 Vertical alignment adjustment

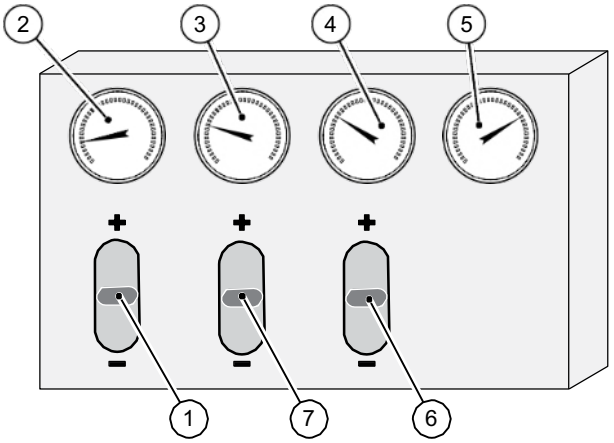


Set the implement down on the ground and adjust the pressure in the air cushions serving to set the working depth of the parallelogram. Ensure that the arms of the parallelogram are virtually parallel to the ground. Move forward a few meters to drive the implement into the ground, then adjust the vertical alignment with the top link of the tractor.





10.2 Pneumatic unit control



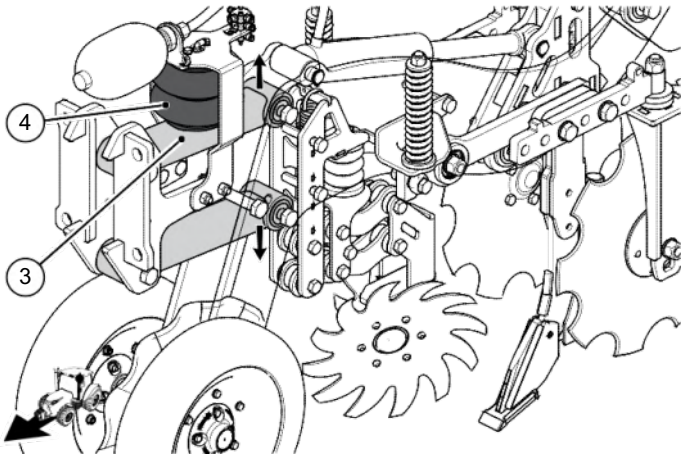
Legend
1 Parallelogram control lever
2 Parallelogram air pressure manometer
3 Rear roller air pressure manometer
4 Trash wheel air pressure manometer
5 Air pressure manometer
6 Trash wheel control lever
7 Rear roller control lever

The pneumatic control unit comprises three levers for raising or lowering the parallelogram pressure, the height of the trash wheel and the pressure on the roller.

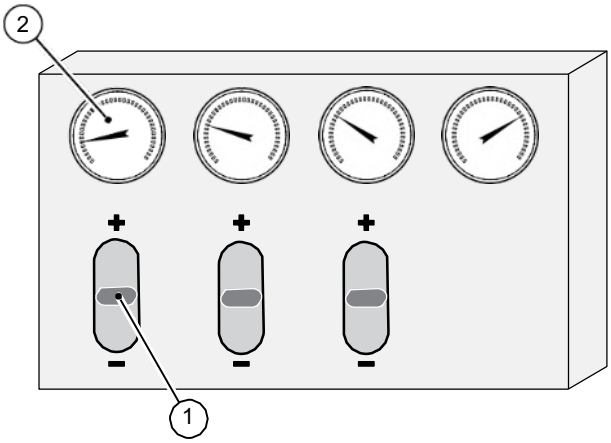
IMPORTANT:
The implement must be raised completely off the ground in order to perform the following adjustments.

10.3 Parallelogram adjustment

The parallelogram enables the rang seeding line to follow the ground contours and maintain the working depth regardless of changes in level.



Legend
3 Parallelogram
4 Pneumatic air cushion



Adjustment

- Operate the air control lever (1) from the tractor cab.
- For a soft parallelogram setting, reduce the air pressure (2) in the pneumatic air cushion (4).
- For a stiff parallelogram setting, increase the air pressure (2) In the pneumatic air cushion (4).
- The adjustment is made simultaneouAGRISEM across all rows of the Implement.

10.4 Trash wheel height adjustment

There are two adjustment mechanisms:

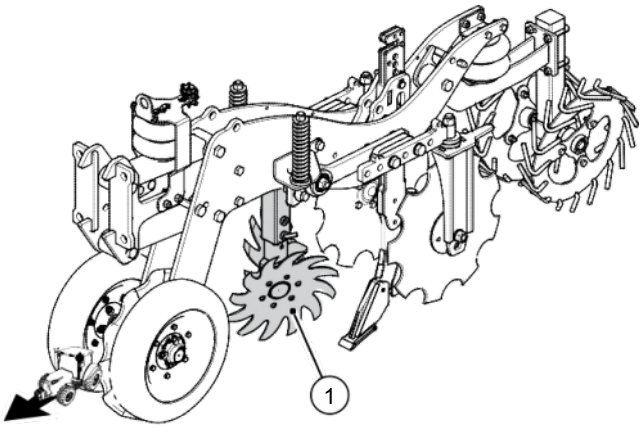
- Manual adjustment.
- Pneumatic adjustment (optional).

Important comment regarding manual or pneumatic adjustment.

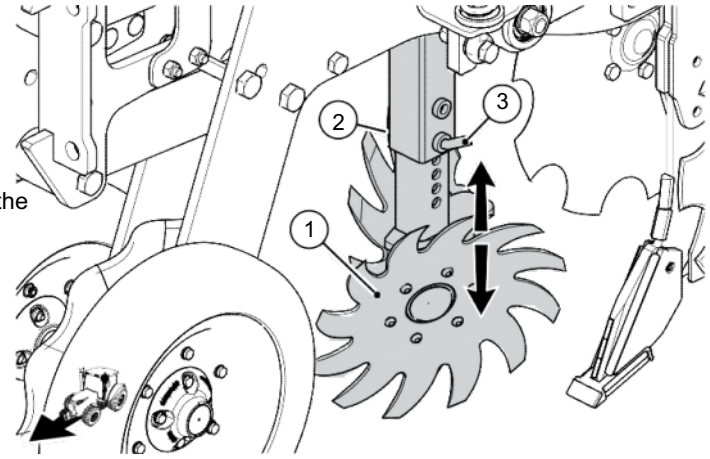
IMPORTANT:
Of only one of the two trash wheels is rotating during working, this means that the implement is vertically out-of-alignment. The length of the top link requires to be adjusted.

IMPORTANT:
When the trash wheels displace a lot of earth into the space between the rows or become clogged with wet soil, they may require to be raised

10.4.1 Manual adjustment.



Legend
1 Manual trash wheel

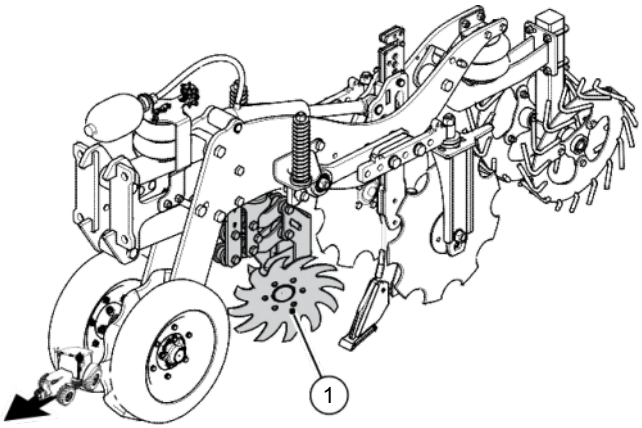


Legend
1 Trash wheel
2 Safety pin (hidden in illustration)
3 Retaining pin

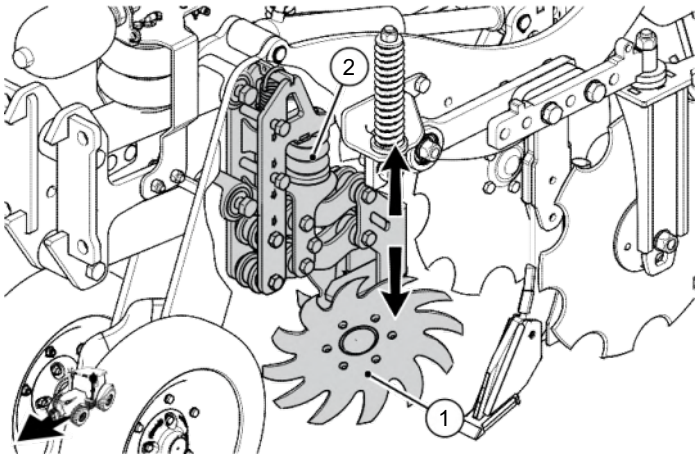
Adjustment

- Raise the implement so that the trash wheel is completely off the ground.
- Remove the safety pin (2).
- Remove the retaining pin (3).
- Set the trash wheel to the desired height.
- Raise the trash wheel to reduce the pressure on the soil.
- Lower the trash wheel to increase the pressure on the soil.
- Refit the retaining pin (3) in the desired position.
- Refit the safety pin (2).
- Make the same adjustment across all rows of the implement.

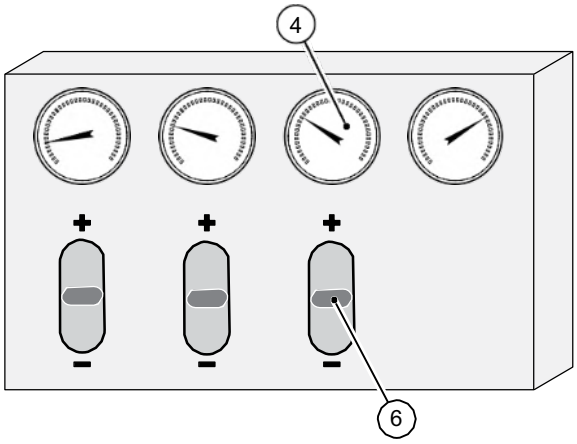
10.4.2 Pneumatic adjustment (optional)



Legend
1 Trash wheel



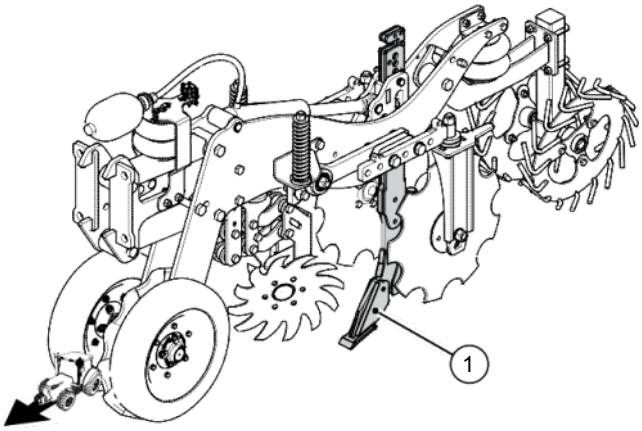
Legend
1 Trash wheel
2 Pneumatic air cushion



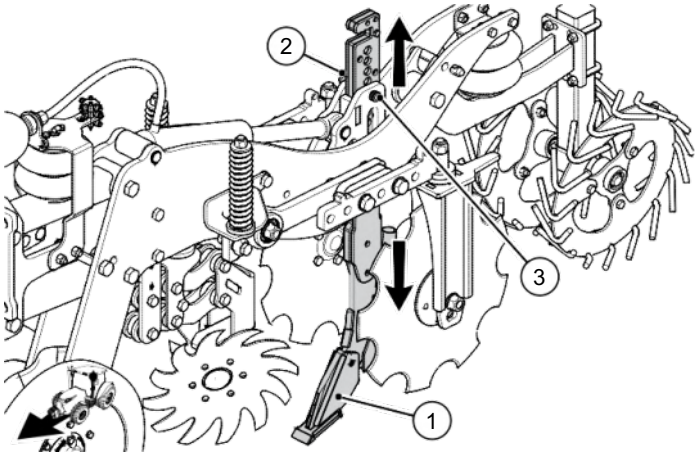
Adjustment

- Raise the implement so that the trash wheel (1) is completely off the ground.
- Operate the air control lever (6) from the tractor cab.
- Set the trash wheel to the desired height.
- To raise the trash wheel, reduce the air pressure (4) in the pneumatic air cushion.
- To lower the trash wheel, increase the air pressure (4) in the pneumatic air cushion.
- The adjustment is made simultaneouAGRISEM across all rows of the implement.

10.5 Tine depth adjustment



Legend
1 Tine



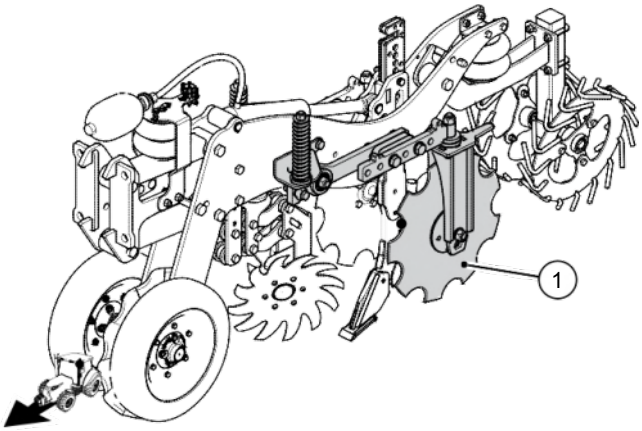
Legend
1 Tine
2 Safety pin (hidden in illustration)
3 Retaining pin

Adjustment

- Raise the implement so that the point is completely off the ground.
- Remove the safety pin (2).
- Remove the retaining pin (3).
- Adjust it vertically.
- Once the tine is adjusted, refit the retaining pin (3).
- Refit the safety pin (2).
- Make the same adjustment across all rows of the implement.

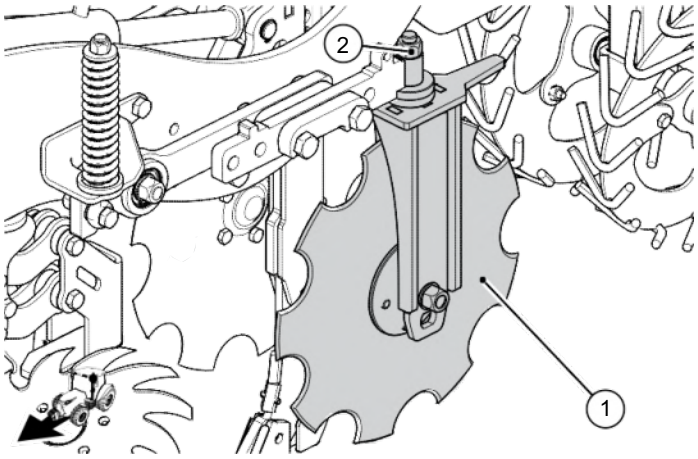
IMPORTANT:
If the tine generates an excessively large stream of soil, there are two parameters you can vary: The working depth and / or the working speed.

10.6 Deflector disc adjustment

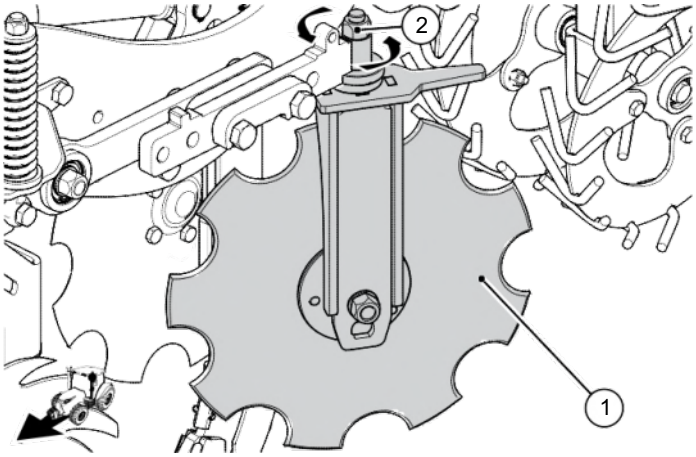


Legend
1 Deflector disc

10.6.1 Alter the angle of the disc



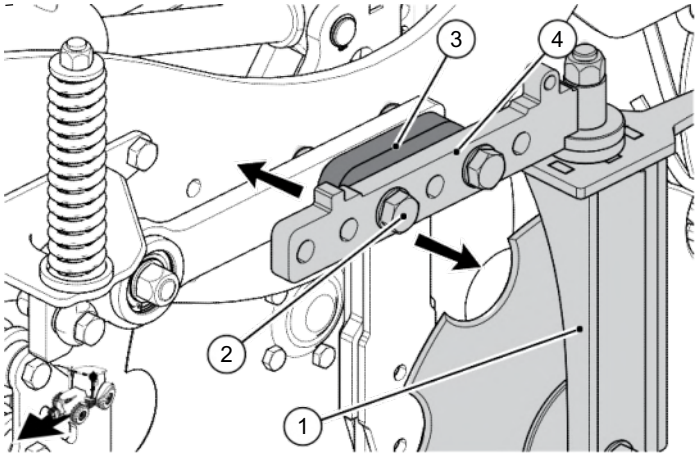
Legend
1 Disc
2 Nut



Legend
1 Disc
2 Nut

- Undo the nut (2).
- Pivot the disc (1) and its support.
- Once the adjustment is completed, re-tighten the nut (2).
- Make the same adjustment across all rows of the implement.

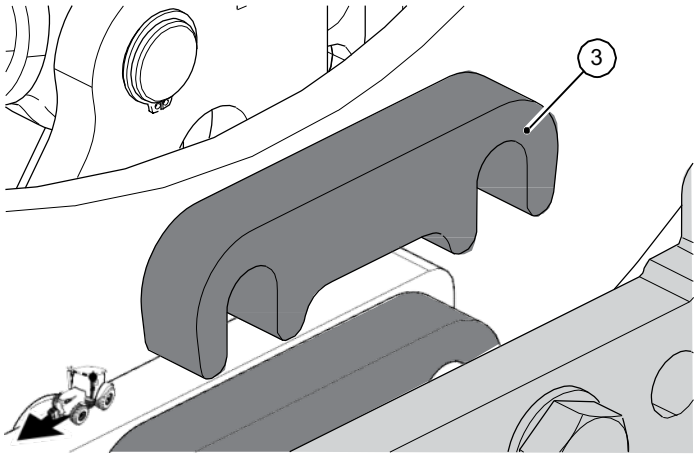
10.6.2 Alter the strip width



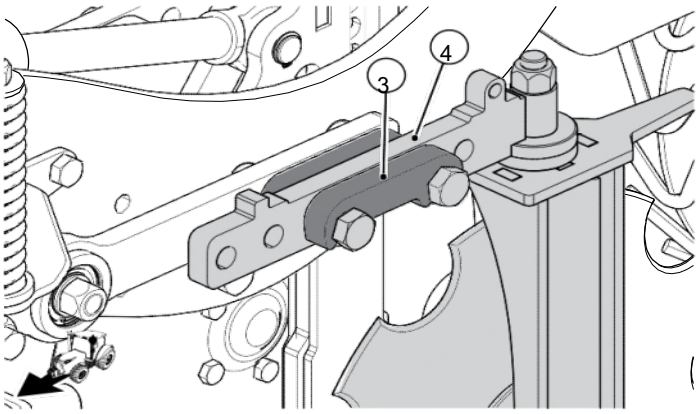
Legend
1 Deflector disc
2 Bolt (x2)
3 Spacer
4 Arm

- Unscrew the bolts (2).

IMPORTANT:
It is not necessary to unscrew the bolts (2) fully, as the spacers are open-ended.



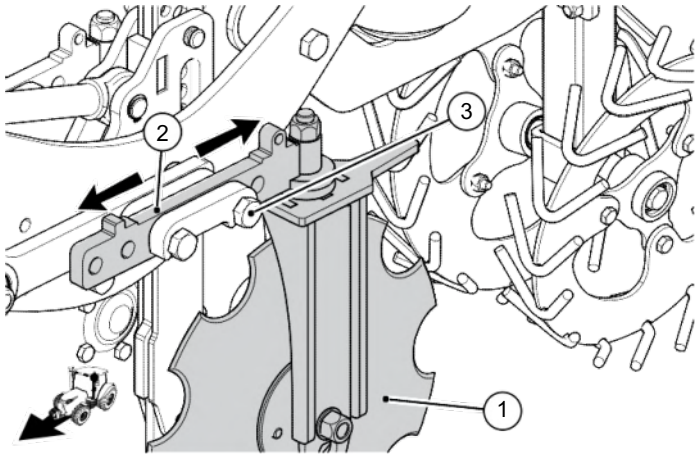
Legend
1 Spacer



Legend
3 Spacer
4 Arm

- Position the spacers (3) on the inside or the outside of the arm (4), according to the desired strip width.
- Make the same adjustment across all rows of the implement.

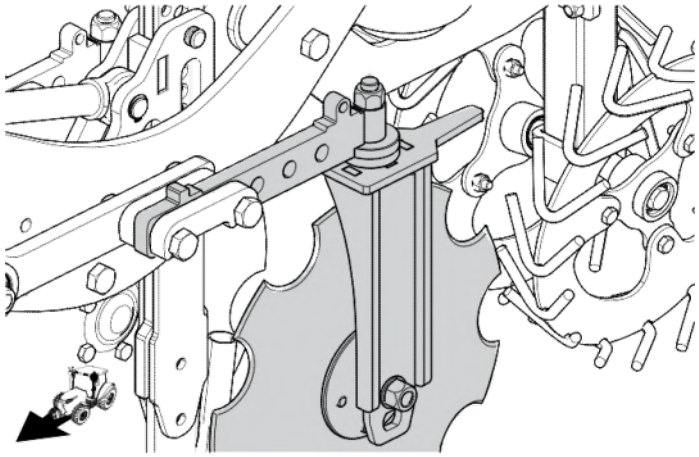
10.6.3 Alter the longitudinal (front to back) position of the disc



Legend
1 Disc
2 Arm
3 Bolt (x2)

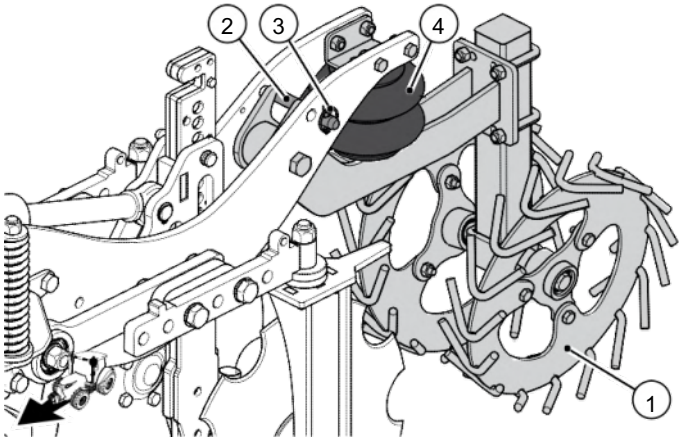
- Unscrew and remove the bolts (3).
- Move the assembly (1) backwards or forwards.
- Refit and retighten the bolts (3).

Example of rear disc assembly

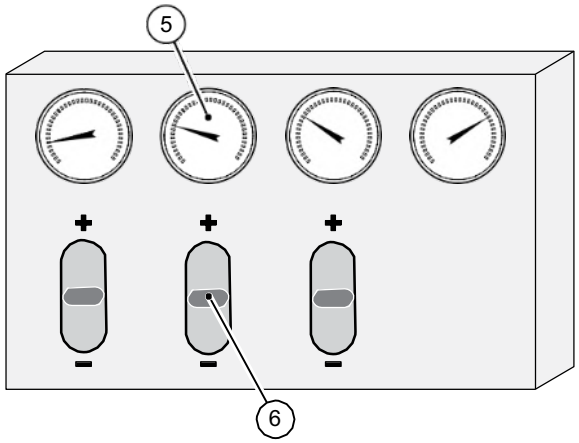


10.7 Press roller adjustment

IMPORTANT:
Start by working without pressure in the air cushions applying the rollers to the ground.



Legend
1 Press wheel
2 Retaining pin
3 Safety pin
4 Air cushion



Where ground conditions are good (dried soil), the pressure in the press roller system can be increased.

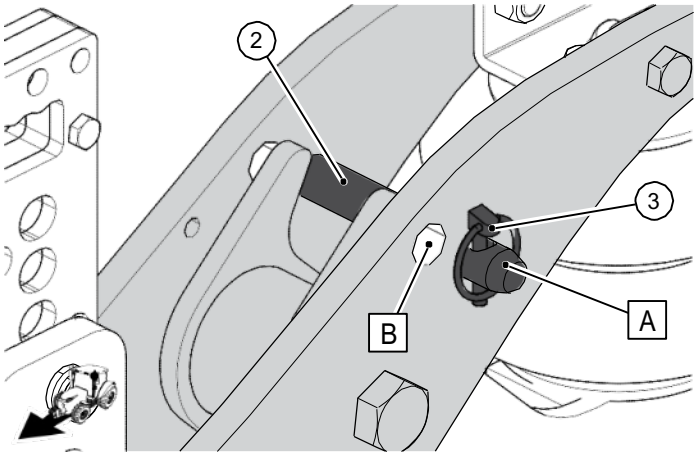
Where ground conditions are humid, the pressure in the press roller system can be reduced.

Adjustment

- Operate the air control lever (6) from the tractor cab.
- Reducing the pressure on the wheel (1).
- Reduce the air pressure (5) in the pneumatic air cushion (4).
- Increase the air pressure (5) in the pneumatic air cushion (4).
- The adjustment is made simultaneouAGRISEM across all rows of the implement.

IMPORTANT:
On humid soil, the press rollers can be retracted.

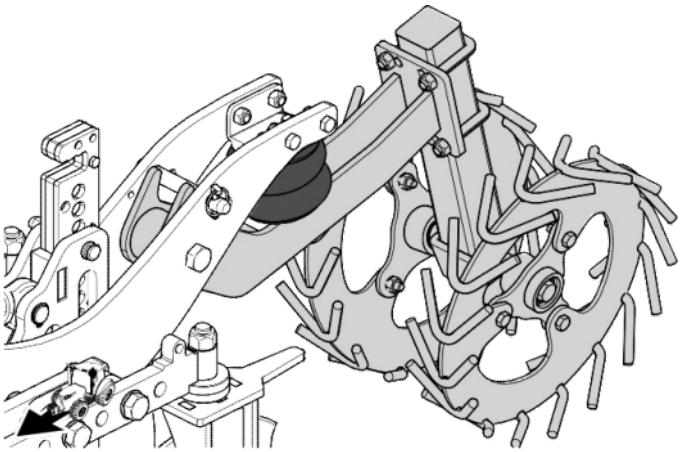
Retracting the press rollers



2 Retaining pin
3 Safety pin
A Lowered position
B Raised position

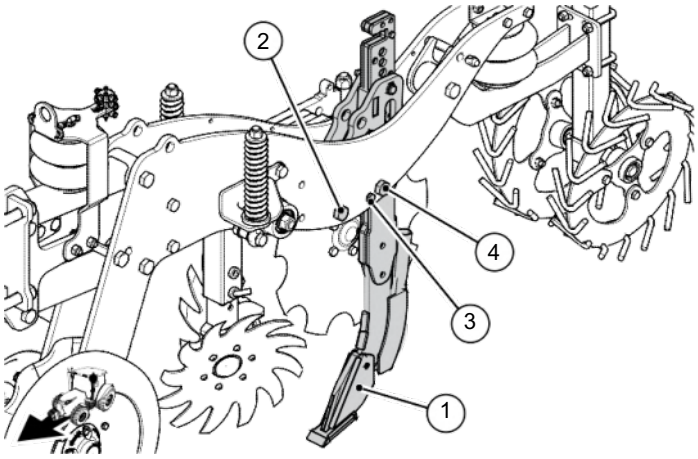
To retract the rollers:

- Remove the safety pin (3).
- Remove the retaining pin (2) from position A.
- Raise the press wheel.
- Refit the retaining pin (2) in position B.
- Refit the safety pin (3).

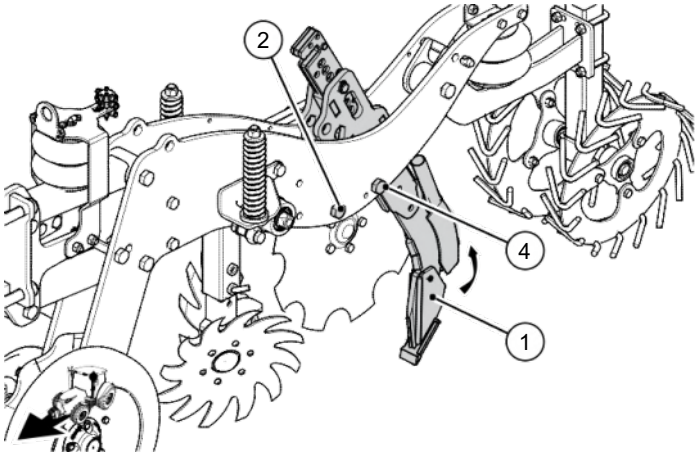


10.8 Safety systems

10.8.1 Mechanical safety device



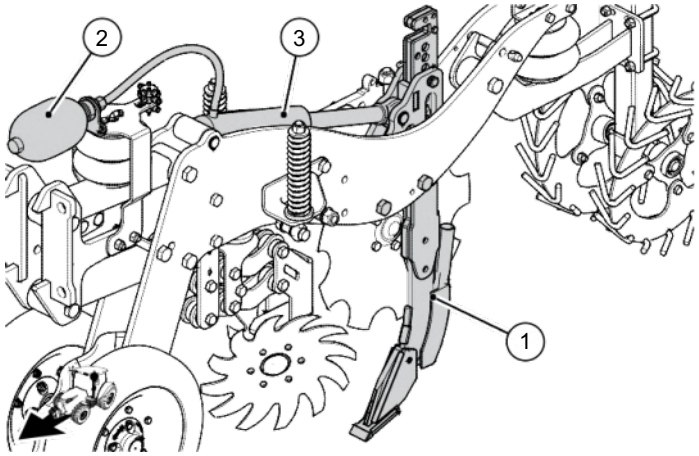
Legend
1 Tine
2 Hinge
3 Shear bolt
4 Safety stop



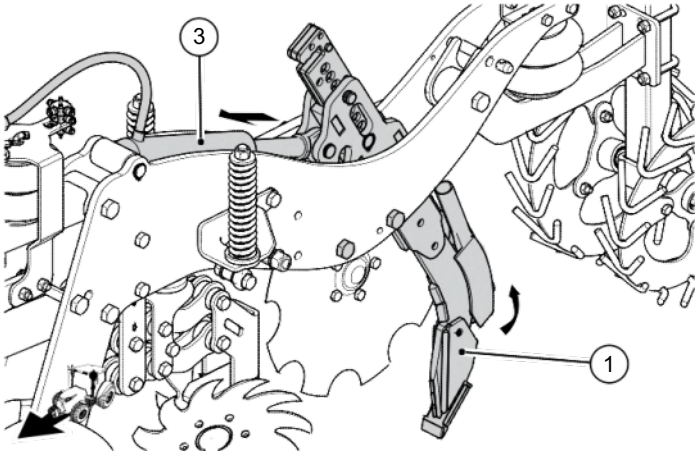
The tine (1) is fixed to the support bracket. When an obstacle is encountered, a shear bolt (3) breaks. The tine (1) moves out of the way of the obstacle by pivoting around its hinge (2).

In case of breakage, replace the shear bolt with a new OEM bolt.

10.8.2 Hydraulic safety system (option).



Legend
1 Tine
2 Accumulator
3 Hydraulic cylinder

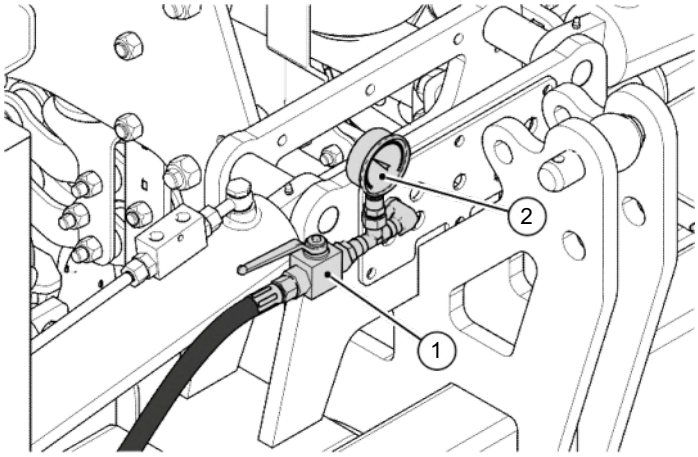


The cylinders of all the elements are connected to the same hydraulic circuit, including an accumulator and a manometer to display the adjustment pressure of the circuit in real time.

When an obstacle is encountered, when the pressure at the tine (1) exceeds the pressure in the hydraulic circuit, the tine is raised, the oil from the cylinder (3) is taken-up by the accumulator (2). Once past the obstacle, the pressure at the tine decreases, the accumulator releases the oil and the tine returns to its position.

The pressure setting must be between 50 and 75 bar.

Increasing the pressure in the safety system



Legend
1 Calibration valve
2 Manometer

- Set the implement down on the ground in the working position.
- Open the calibrating valve (1).

- To increase the resistance of the safety systems:

- Operate the tractor hydraulic control valve control lever to increase the system pressure.
- Close the calibration valve (1) when the desired pressure is reached, the safety system is thus isolated.

- To reduce the resistance of the safety systems:

- Open the calibration valve (1) and wait for the pressure in the circuit to drop. Once the desired pressure is reached, re-close the calibration valve.

10.9 Use in the field

- Place the implement in the working position (See § 9.2).

IMPORTANT:
For an optimum result, the working speed must be between 10 and 12 km/h (5 and 6 mph). A higher speed may cause rapid wear of the working parts.

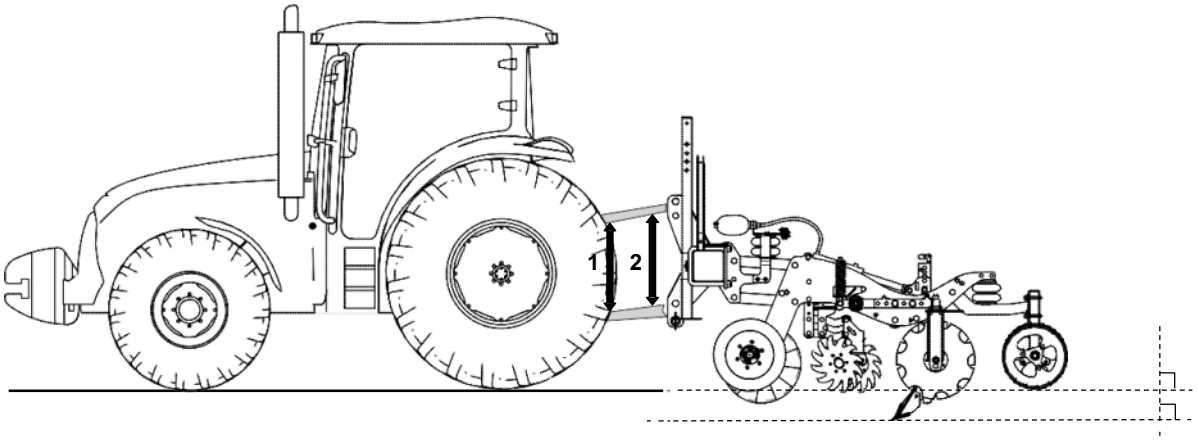
IMPORTANT:
The working depth must be between max. 10 and 20 cm.

IMPORTANT:
Raise the implement before performing field headland manoeuvres.

- Do not make sharp turns when the implement is in the ground.
- Reduce speed when turning or when clearing obstacles (ditches, bumps, stony patches, etc.).
- With a new implement or at the beginning of each new season and for best results, it may be necessary to perform several return runs. Each time, the soil slides more easily and settings can be refined.

10.10 Working depth adjustment

10.10.1 Depth and longitudinal level adjustment

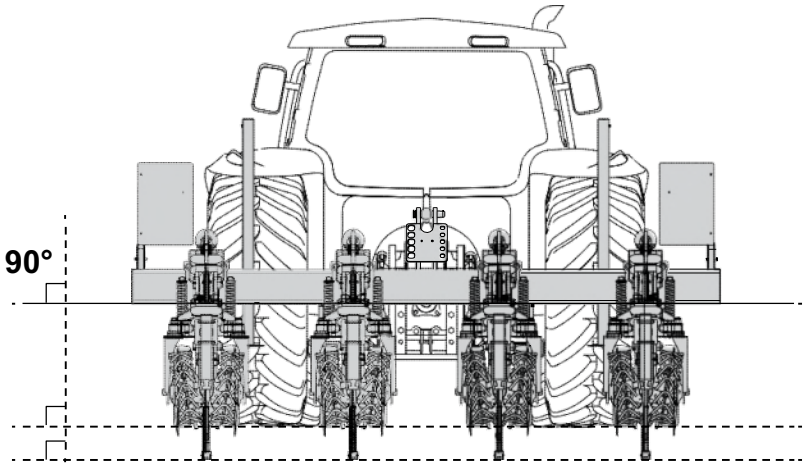


The top link must be attached to a hole in the coupling yoke. It must always be placed at a higher level on the implement side than the tractor side. When working, once the implement is in the ground, set the lifting control to floating.

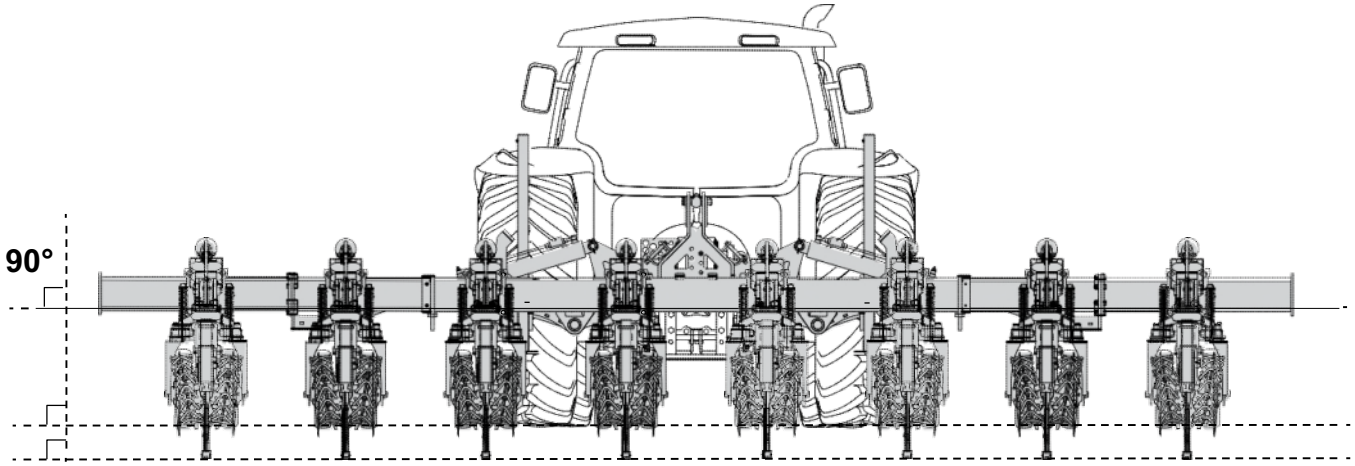
- The working depth is set by the height of the roller.
- The front and back of the implement frame must always be level.
- The length of the top link must be adjusted so that the hitching pin moves freely in the hole.

10.10.2 Lateral levelling

Fixed STRIPCAT



Folding STRIPCAT



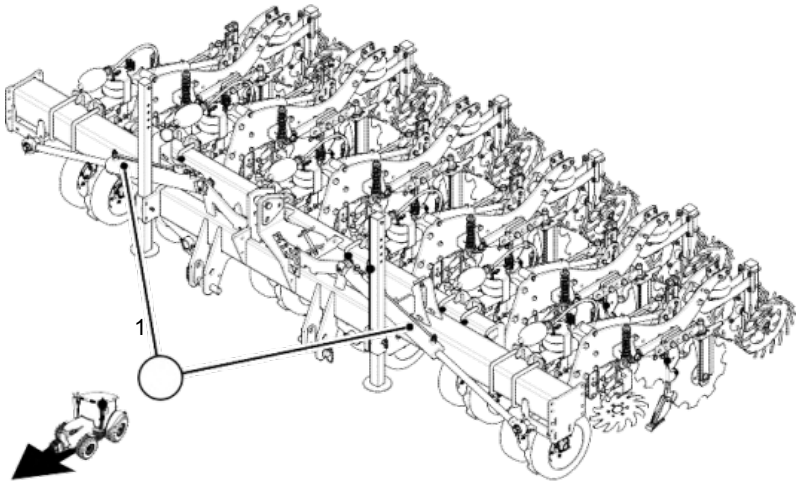
In the working position, the frame of the implement must be level from left to right. This normally occurs when:

- Tractor preparation has been carefully carried out:
- The tire pressures are identical on both sides, the link arm stabilization devices are installed, the tractor linkage vertical alignment is correctly adjusted.
- The implement's rear attachments are all adjusted in the same way.

IMPORTANT:
Once the implement is in the ground at the desired working depth, move away a few meters to better determine whether it is level with the ground.

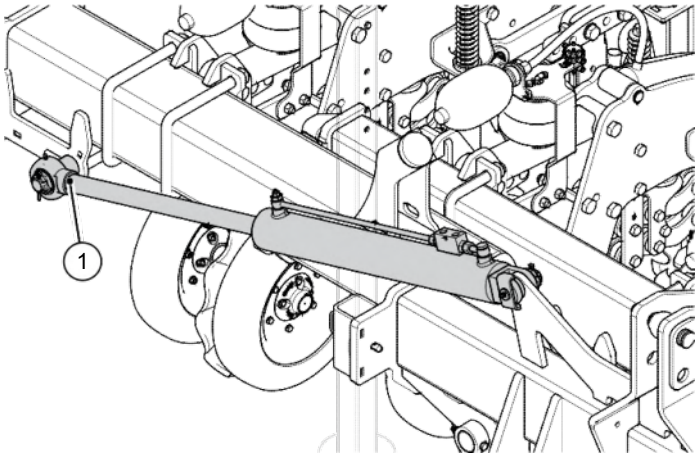
Cylinder head adjustment

IMPORTANT:
The setting is made in the factory and must not be modified except in special cases.



Legend
1 Cylinder heads

Before performing lateral levelling adjustment, ensure that the implement, once folded down into the working position, is horizontal and placed on a firm, flat surface.



Adjustment procedure

Lateral levelling is performed by adjusting the heads of the folding cylinders (1).

- Fold down the implement into the working position.
- Move away from the implement and check its alignment relative to the ground.
- If one of the side parts is too high, lower it by lengthening the folding cylinder rod (untighten the cylinder head on the threaded rod).

IMPORTANT:
Before tightening or untightening a cylinder head, lower the implement so that it rests on its tines, thus making adjustment easier.

10.10.3 Ground work

- Drive forwards slowly and lower the implement for a gradual entry of the elements into the soil.

MAINTENANCE

CAUTION:

Observe the safety instructions (see Chap. 2) before starting service work or replacing spare parts.
• The operator and the owner are responsible for the implement's maintenance.
• Before commencing any work on the implement, switch off the engine and remove the tractor's ignition key.
• Risk of trapping or crushing injuries during maintenance or cleaning.
• Stabilize the implement before performing any maintenance or cleaning operations.
• Make sure that the implement cannot be inadvertently operated while carrying out maintenance or cleaning work.

CAUTION:

Make sure that your safety is assured by the techniques used to raise the implement.

CAUTION:

Tires must be fitted and removed by qualified personnel.

IMPORTANT:

The operator and the owner of the implement must not under any circumstances tamper with or adjust sealed components.

11 Protection of the environment

11.1 Soil contamination

IMPORTANT:

Take care not to spread waste grease and substances such as hydraulic oil on the ground or to dispose of them in the drains.

IMPORTANT:

Collect the drained hydraulic oil in sealed, clean and containers provided for this purpose.

11.2 Worn tires

CAUTION:

It is prohibited to store, abandon, deposit tires in the environment or to burn them in the open air. Take them to an approved dealer or collection point.

12 Cleaning

Clean the implement.

- When cleaning with a high pressure cleaner, do not direct the jet at joints, bearings etc. or at electrical components.
- Pay special attention to safety stickers affixed to the implement. Damaged or detached stickers must be replaced.
- Do not use compressed air to clean hydraulic components.
- Perform complete lubrication of the implement after each cleaning.

13 Inspection

IMPORTANT:

Inspect implement after each use and perform the required repairs.

- Check the general state of the implement :

- The welds.
- The wheels, tyres and the wheel studs.
- The bolts of wearing parts under stony conditions (strong vibrations).

IMPORTANT:

Check the tightening of all the bolts after the first 25 hours of operation of the implement.

13.1 Checking the hydraulic system

CAUTION:

NEVER place a hand over escaping hydraulic fluid. Leaks must be located with a tool. Risk of injury or infection due to hydraulic fluid. Hydraulic fluids escaping under high pressure are able to penetrate the skin and cause serious, even fatal injuries.

CAUTION:

Your implement may be equipped with hydraulic accumulators. These are pressurized and it is dangerous and prohibited to remove the accumulators or their piping. This operation may only be performed by qualified personnel (consult your dealer).

CAUTION:

Before working on the hydraulic circuit, set the implement down on the ground and depressurize the hydraulic circuit.

CAUTION:

Never heat, weld, saw, grind or flame cut close to hydraulic circuits or components or any other flammable parts. For welding work on the implement, disconnect the tractor battery and protect the hydraulic circuits so that they are not damaged by welding sparks and spatter.

- Check hydraulic hoses for wear (deterioration of the external sheath, wear etc.).
- Check that couplings, components, etc. are securely tightened.
- Drain the implement if you need to replace components in the hydraulic circuit.

CAUTION:
Never open, pierce, weld or perform work on the hydraulic reservoirs.

IMPORTANT:
Replace hydraulic hoses with others having the same technical specifications.

IMPORTANT:
Collect hydraulic oil, hydraulic accumulators, tyres and take them to a dealer or an approved collection point. Do not abandon them in the environment.

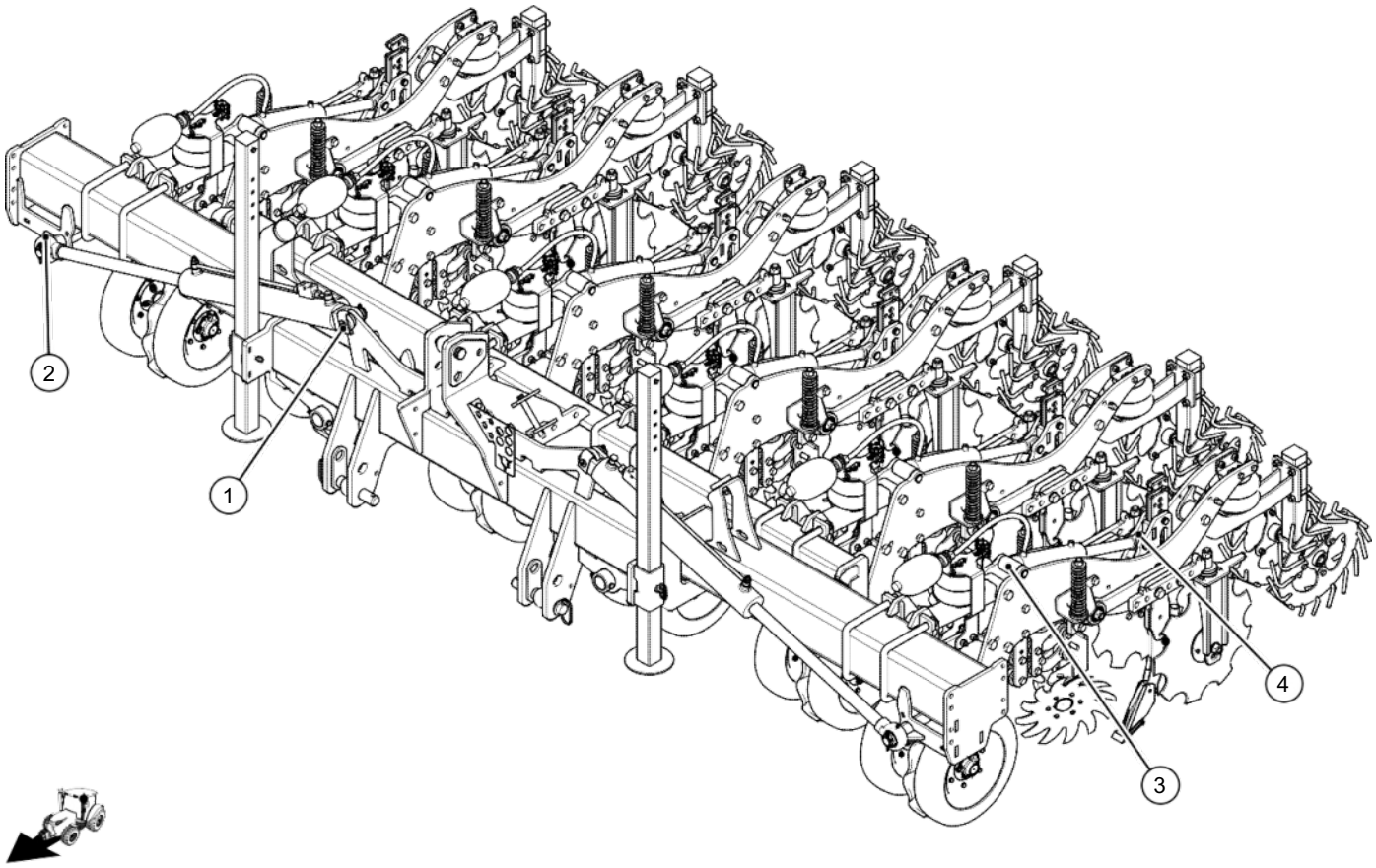
13.2 Lubrication and greasing

Location of lubricating nipples

IMPORTANT:
The location of lubrication nipples depends on the various assemblies and options of your implement.

IMPORTANT:
Check the location of lubrication nipples using the spare parts catalogue supplied with your implement.

E.g. 6-riow folding mounted Stripcat with non-stop hydraulic safety system



Legend
1 Lubricating nipple on folding cylinder pins
2 Adjusting cylinder pin lubricating nipple
3 Frame pin lubricating nipple

Regular lubrication of all moving parts ensures optimum implement operation and prolongs service life.

The lubricating nipples on the pivot points enable lubrication of the axles.

Before lubrication, clean the lubricating nipples from impurities that could cause blockage of the lubrication duct. If a lubricating nipple is clogged, worn or missing, dismantle it for cleaning or replace it.

Check that the grease can flow.

Be careful not to over-grease during lubrication. Excess grease, on contact with dust, forms an abrasive paste. Remove and wipe away any spillage or build-up of grease.

- Under normal working conditions, grease every 100 working hours.
- Under severe or intensive conditions, grease more frequently.

14 Spare parts

In order to ensure the reliable operation and long service life of your implement, only use original spare parts from the manufacturer. The use of any parts, other than those provided by the manufacturer automatically voids the warranty.

IMPORTANT:
This implement carries a CE conformity mark. Use only new original replacement parts approved by the manufacturer.

- Ensure that replacement parts are correctly installed and positioned in the right direction. Check the implement each time a part is installed and after each maintenance operation to check correct operation.

14.1 Maintenance of discs and attachments

IMPORTANT:
Protect the working surfaces of the discs against corrosion by applying a light coating of grease or oil.

- In particularly sticky soil conditions, apply a coat of liquid oil with a sprayer or from an aerosol can on the discs or attachments as soon as you leave the field.
- When placing in storage, applying a thicker coat of oil to the discs or attachments or spraying with dry graphite will slow down corrosion.

14.2 Tightening torques

- Observe the tightening torques of the components. For each component, the torques vary depending on the surface condition and the lubrication. All values in the table below are for information only.

Dimensions			Category 8.8			Category 10.9			Category 12.9		
Ø (mm)			N x m	kg x m	lb - ft	N x m	kg x m	lb - ft	N x m	kg x m	lb - ft
M6		10	11.1	1.13	8.19	16.3	1.66	12.02	19.1	1.94	14.09
M8	13		27	2.75	19.92	39	3.97	28.78	46	4.69	33.94
M10	17	16	53	5.40	39.11	78	7.95	57.56	92	9.38	67.89
M12	19	18	92	9.38	67.89	136	13.87	100.36	159	16.21	117.34
M14	22	21	148	15.09	109.22	218	22.23	160.88	255	26.01	188.19
M16	24		232	24	171.21	341	34.78	251.65	399	40.69	294.46
M18	27	26	330	23.66	243.54	469	47.83	346.12	549	55.99	405.16
M20	30		471	48.04	347.59	667	68.03	492.24	781	79.66	576.37
M22	32	34	648	66.09	478.22	920	93.84	678.96	1077	109.85	794.82
M24	36		809	82.51	597.04	1148	117.09	847.22	1343	136.98	991.13
M27	41		1201	122.50	886.33	1706	174.01	1259.02	1997	203.69	1473.78
M30	46		1628	166.05	1201.46	2311	235.72	1705.51	2704	275.80	1995.55
M33		50	2216	226.03	1635.40	3148	321.09	2323.22	3684	375.76	2718.79
M36	55		2840	289.68	2095.92	4036	411.67	2978.56	4723	481.74	3485.57

1 Nm x m = 0.1019 kg x m
1 Nm x m = 0.738 lb x ft
1 kg x m = 9.81 N x m
1 lb x ft = 1.355 N x m

14.3 Precautions for storage

CAUTION:
Never allow children to play around an implement if it is hitched to a tractor or in its storage area.

DANGER:
Never store agricultural machinery under a power line.

- Before unhitching implement for storage, make sure the storage area is level, clean and firm. Preferably store the implement in a dry and dust-free shelter.
- Store the implement in the working position.
- Never leave the implement in the transport position.
- Depressurize the hydraulic circuits by operating the tractor control levers (tractor engine switched off).
- Store the implement away from human activity.
- Store the implement in a dry, clean place. Retract or grease the cylinder rods to prevent corrosion.

14.4 Returning to operation and additional check

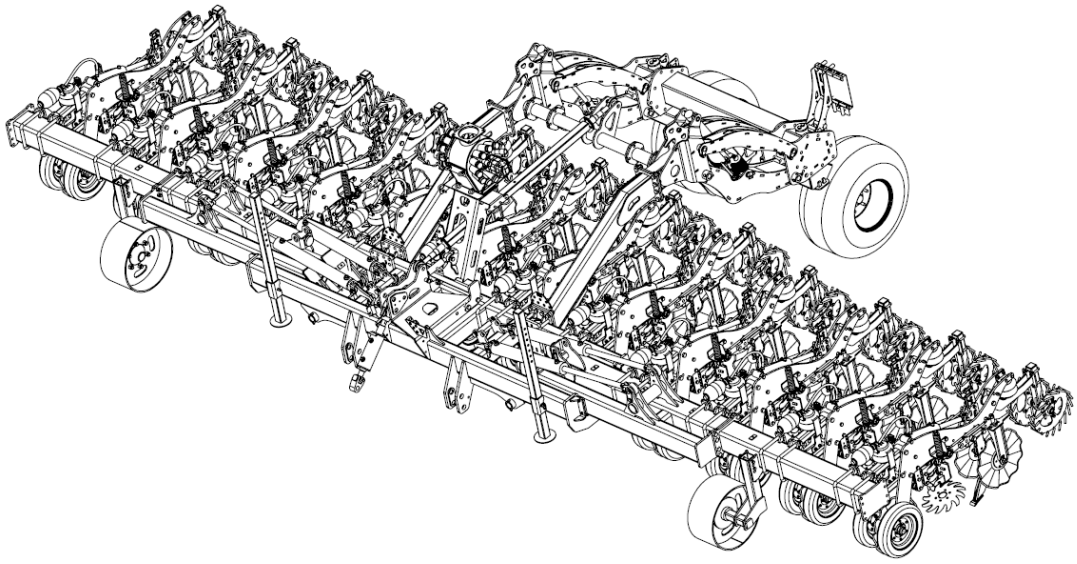
- After storage and before use, perform a full visual inspection (corrosion, hydraulic lines, tyre inflation, etc...) of the implement.
- After the visual inspection, hitch the implement to a tractor and test its operation.

Annex: specific frame and lift assist system

15 Operator's manual for specific frame and lift assist system

Extra specifications.

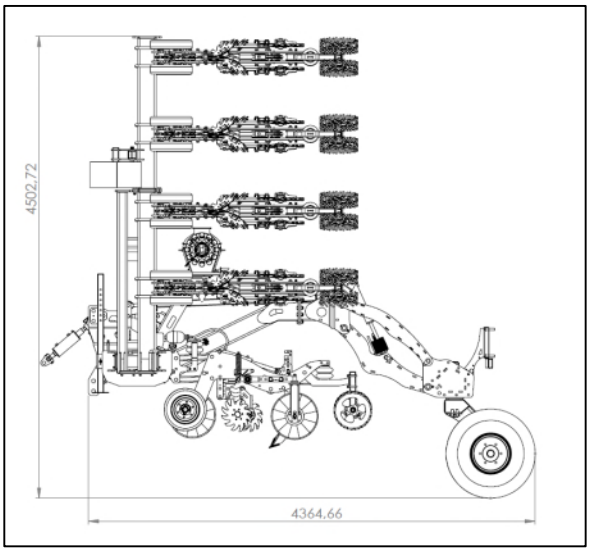
Specific frame and lift assist system

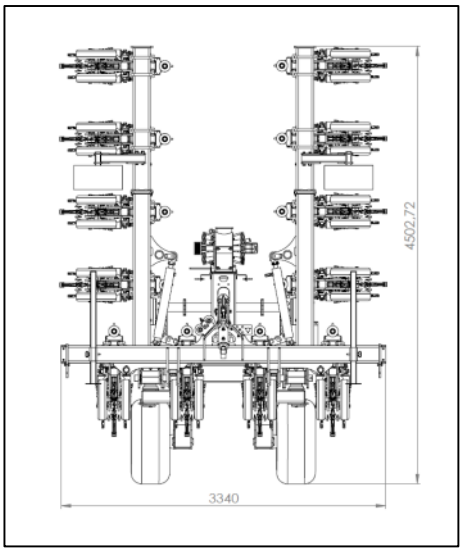


Annex : specific frame and lift assist system

15.1 Implement

- **Dimensions:**





CAUTION:

- ***Take into account that the machine is higher than 4m and wider than 3m.***
- ***Risk of accidents involving other road users.***
- ***Risk of damage to signposts, telephone poles, etc.***

15.1.1 Changing between transport and working position.

Transport position:

Before driving on the public road:

- Fold up the wings of the machine.
- Lock each wing with the appropriate pin.
- Raise the implement to its maximum height by raising the lift assist and the tractor linkage.
- The machine should be parallel to the ground.

To care of 9.3 “driving on the road chapter” of the operator’s manual to drive on the road.

Working position:

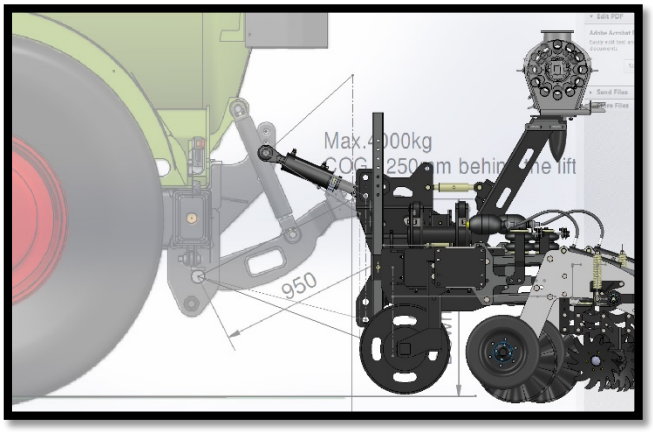
Before working on the field:

- Remove pins that locked the frame wings.
- Unfold the machine.
- Be sure that the hydraulic valve of the ground following system is open.
- Lower the linkage and the lift assist to the working position, set the lift assist spacer to maintain the machine parallel to the ground during the work.

A hydraulic three point link is delivered to limit the equipment movement when in working position. If there is no need of it, please don’t use it.

Annex : specific frame and lift assist system

Connect the hydraulic three point link and adjust the length with the supplied spacers so that the implement is parallel to the ground when in working position. This link will act as a stop to prevent lifting of the back of the implement during work but will allow free movement while in transport position.



15.1.2. Unhitching the equipment from the tractor.

CAUTION:
Make sure that there is no-one in the vicinity of the implement before lowering it.

IMPORTANT:
Before detaching the implement, make sure that the ground is sufficiently level and firm. On moist ground, place wooden blocks under the support legs.

Proceed in reverse order than attachment to detach the implement:

- Place the equipment to the working position.
- Lower the equipment stands. (5.2.1 “Support legs” of the Operator’s manual)
- Lower the implement to the ground, first lower the lift assist to the stops then lower the tractor linkage.
- Disconnect the tractor power socket.
- Close the lift assist lifting system valve.
- Depressurize the hydraulic circuit; disconnect the hydraulic couplers (according to model).
- Unhook the lower link arms.

15.1.3. Hydraulic connections:

Each hydraulic function uses a color and needs to be plug on a hydraulic distributor:

- Yellow : Volgelsang head motor drain
- Green : Volgelsang head motor supply
- Blue : Lift assist supply
- Red : Frame folding supply
- Black : Hydraulic tripping system

IMPORTANT:
Check the length of the hoses; they must not be too short (risk of rupture or tearing), nor too long (trapping or pinching of the hose in the mechanical joints, wheels, etc.).

Annex : specific frame and lift assist system

15.2 Specific wide mounted frame.

Please read the Stripcat operator's manual to get machine information, only specifics points will be covered in this section.

15.2.1. Gauge wheels :

The frame equipped with laterals gauges wheels.

- Set gauge wheels position.
- Adjust their position to get the Stripcat unit's parallelogram parallel to the ground during the work. (10.1 "Vertical alignment adjustment" chapter of the operator's manual).

15.2.2. Unfolding speed :

This machine is equipped with safety check valves on each wing cylinders. Those check valves can lock the folding down if the speed of the oil flow is too high.
To avoid them to lock during unfolding, a settable flow limiter is mounted on the hydraulic quick coupler. (According to the following picture)

Set the flow limiter:

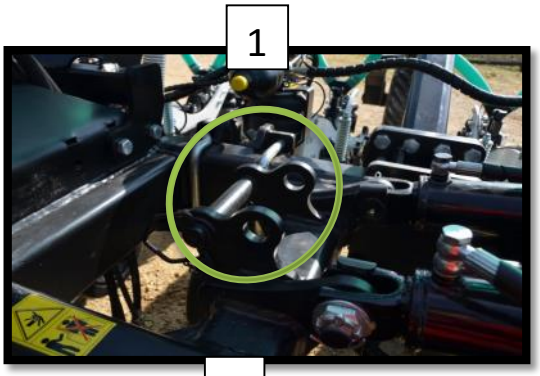
- Turn direction (-): decrease the unfolding speed (avoid blocking).
- Turn direction (+): increase the unfolding speed (can create blocking).

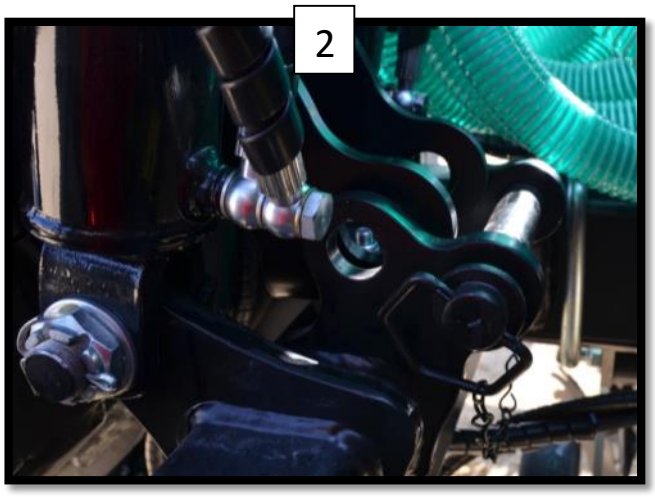
Annex : specific frame and lift assist system

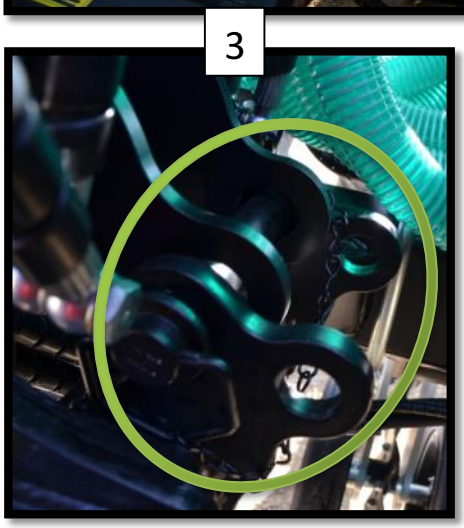
15.2.3. Mechanical wing lock:

Wings need to be locked during the transport position.

- 1: Store the lock pin in the specific hole during working position.
- 2: Fold the wings of the frame.
- 3: Insert the pin in the second hole to lock the wing movement.







15.2.4. Automatic ground following system:

This frame is equipped with a wing ground following hydraulic system. Each wing follows the ground surface regardless to the central part of the frame.

Activate the system:

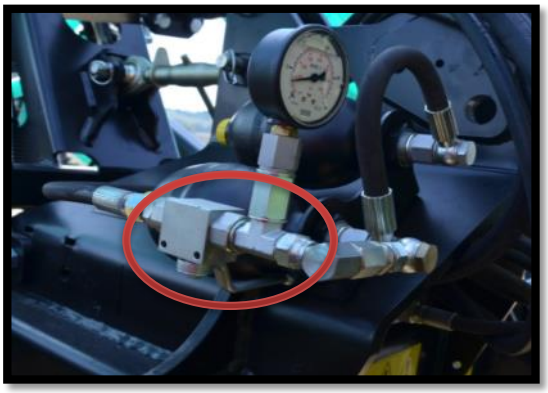
- Open the hydraulic valve.

Inactivate the system:

- Close the hydraulic valve. According to the picture.

Set the system:

- Activate the system
- Unfold the frame. When wings are completely unfolded keep the hydraulic distributor open to increase the pressure in the system up to 80 bar. (read the pressure on the manometer).
- When the hydraulic pressure reaches 80 bar, stop the hydraulic flow.

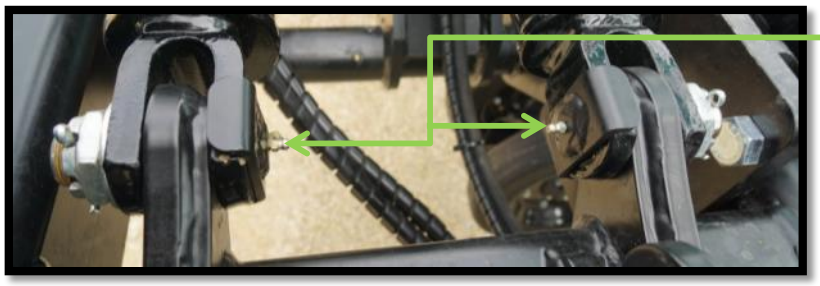


15.2.5. Lubrication and greasing:

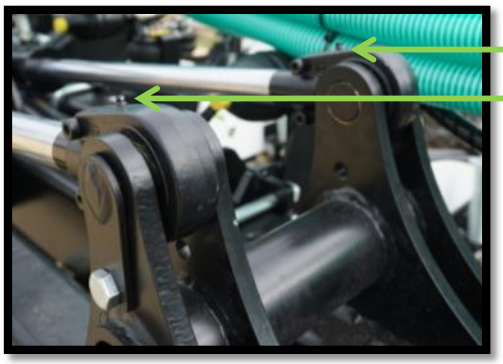
- Regular lubrication of all moving parts ensures optimum implement operation and prolongs service life.
- The grease zerks on pivot points enable lubrication of axles.
- Before lubrication, clean the grease zerks from impurities that could cause blockage of the lubrication duct. If a lubricating nipple is clogged, worn or missing, dismantle it for cleaning or replace it.
- Check that the grease can flow.
- Be careful not to over-grease during lubrication. Excess grease, on contact with dust, forms an abrasive paste. Remove and wipe away any spillage or build-up of grease.
- Under normal working conditions, grease every 100 working hours.
- Under severe or intensive conditions, grease more frequently.

Annex : specific frame and lift assist system

Wing pivot point grease-zerk

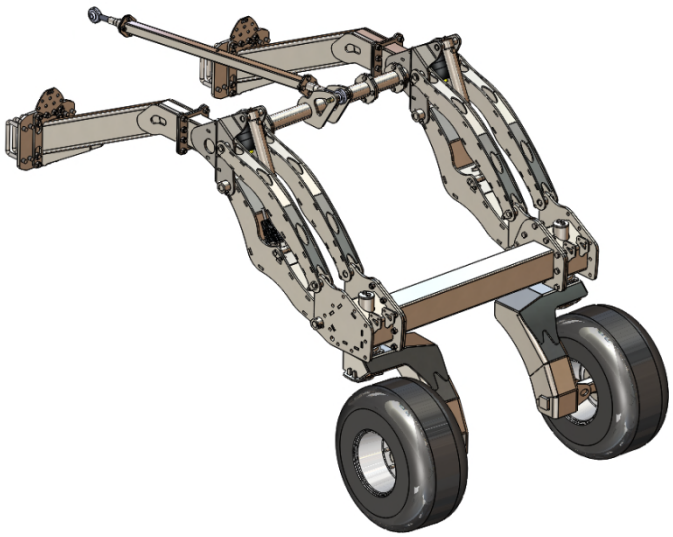


Cylinders pivot point grease-zerks



Annex : specific frame and lift assist system

15.3 Lift assist



15.3.1. Instructions:

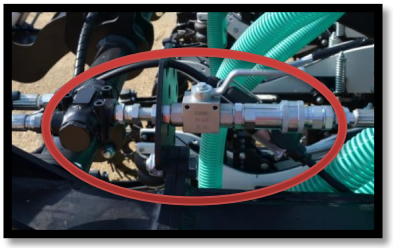
The lift assist frame is an independent system to assist frame lifting. This system will help the tractor linkage to lift the machine.

Using a lift assist:

- Raise or lower the machine by simultaneous activation of the linkage and the lift assist movement.
- The machine will react as a mounted machine.

15.3.2. Lifting system:

Activate the lifting system:
Open the hydraulic valve on the lift assist (according to the picture).

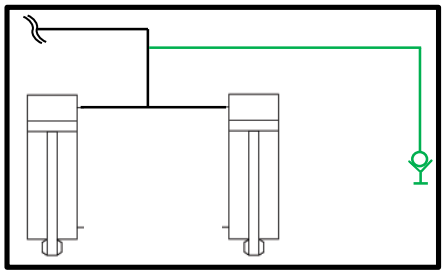


Inactivate the lifting system:
Close the hydraulic valve (perpendicular to the hose).

Caution: The lifting system absolutely needs to be inactivating before unhitching the implement from the tractor.

Raise the lift assist with the tractor linkage.
This connection is an option, there is no obligation to connect your lift assist directly to your tractors linkage. This will make it easier to operate the machine as the front and back of the machine will be lifted by activating only one hydraulic distributor.

- Use the female hydraulic push pull coupler delivered with the machine. Coupler connection ½" BSP.
- Connect this coupler as in the following drawing on your tractors linkage.



- Black line : linkage line
- Green line : line needed to be added for lift assist

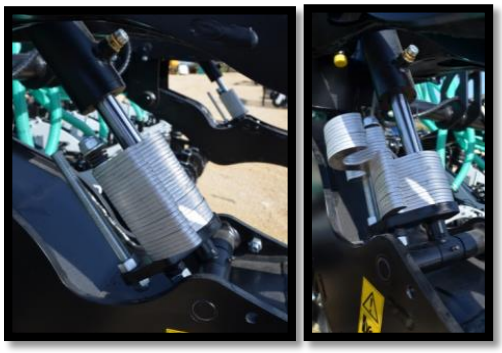
Caution: some linkages use accumulator on their system, before disconnect a line be sure there is no pressure in the line.

Annex : specific frame and lift assist system

15.3.3. Lifting stroke adjustments:

Set the lower stop:

- Put your machine in working position.
- Start on a field, set the tractor linkage high to get the Stripcat unit parallelogram arm parallel to the ground.
- Adjust the lift assist lifting system to get all the implement frame parallel to the ground (10.1 “Vertical alignment adjustment chapter” of the operator’s manual)
- Set the appropriate number of aluminum stops. (same number each side)
- Lower the lift assist on the stops.



15.3.4. Suspension system:

The lift assist is equipped with settable shock absorber to absorb shock loads on the road.

Set the shock absorber:

- Turn direction (-): decrease the damping.
- Turn direction (+): increase the damping.
- Too much bouncing on the road: Turn direction (-), limit the bouncing effect.
- No shock absorption: Turn direction (+), increase the shock absorption.

This system is fitted on each side. Set both side identically (same revolution number from completely open).

15.3.5. Wheels:

The lift assist is fitted with 400/60-15.5 wheels.

- Inflated pressure max : 4.5 bars.
- Load capacity at 25km/h and 4.5 bars : 3870 Kg.
- Specific tires 18 ply.

15.3.6. Lights and warning signs:

- Two lights are equipping the machine.
- Plug the power coupler to the tractor.
- The implement is equipped with two warning signs to warn about the machinery dimension.

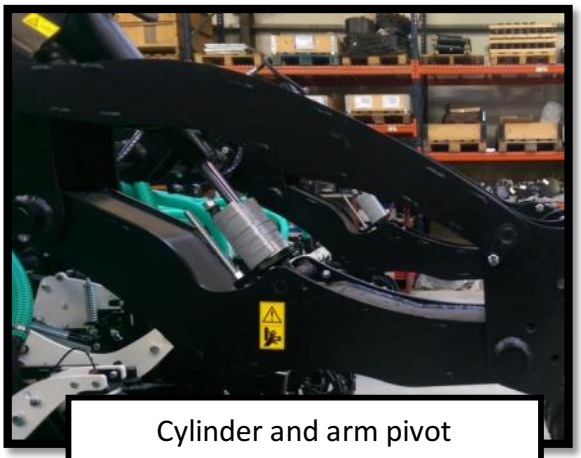
Annex : specific frame and lift assist system

15.3.7. Safety stickers:

Please refer to 2.1.10 “Safety stickers” chapter of this manual for additional informations.

Wheel pivot

Fixation Head



Cylinder and arm pivot

Accumulator

Annex : specific frame and lift assist system

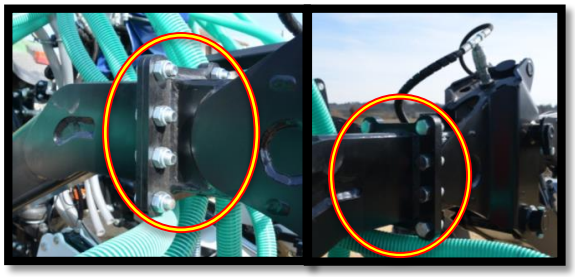
15.4 Fixation and assembly guide.

After transport the lift assist will need to be properly assembled, follow this manual.

For transport the lift assist system is disconnected at the red line.

First connect the lift assist at bolt points

- Put back the 8 bolts/side.



- Tight those according to the table below (or the 14.2 “Tightening torques” chapter on the operator’s manual).

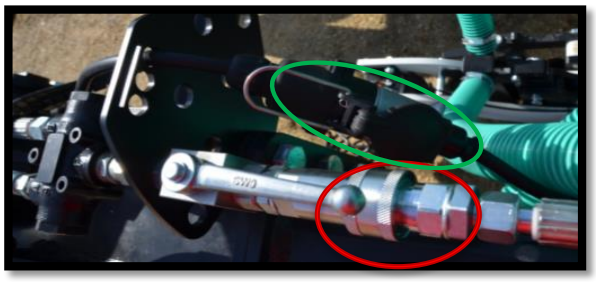
Dimensions		Category 8.8		
Ø (mm)	Wrench Size	N x m	kg x m	lb - ft
M20	30	471	48.04	347.59

Connect the central connecting rod.

- Insert pin at each ball-end.
- Adjust the central connecting rod.
- **IMPORTANT:** extend the connecting rod, tight it enough by hand to preload it.
- Tighten the counter nut to lock it.

Annex : specific frame and lift assist system

Connect hydraulic and power supply.



- Only one push-pull coupler needed to be connected.
- Connect the power supply.
- Open the valve to activate the lifting system

Implement in fully assembled state.

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