



AMAZONE



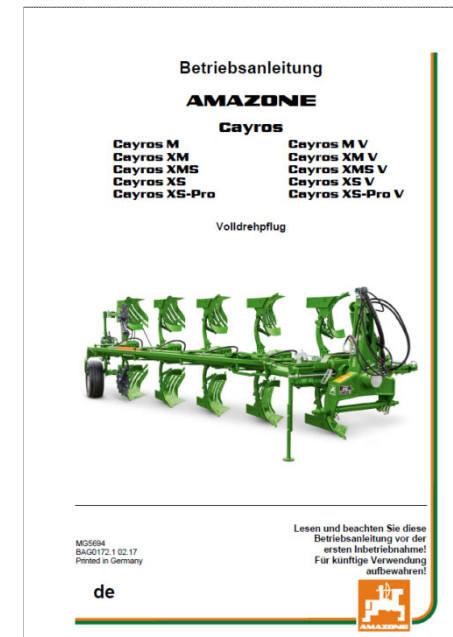
Orientation Aid for the Start of the Season Cayros

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1. General information

- Use of this document requires that the **operating manual** for the implement has been **read** and **understood**. The corresponding documents are shown on the right side.
- For this reason, it is **necessary** to take additional information from the operating manual. The **operating manual** must **always be available** when performing the orientation aid for the start of the season with the Cayros.
- The **Orientation Aid for the Start of the Season - Cayros** document serves as a guideline for the user to check the implement for the new season and to put it back into operation. This document is based on the current implement generation and is also only valid for this version.



2. Preparation for operation

Tractor requirements:

A tractor that is suitable for the plough product type is required to perform the work.

Baureihe	KW	29	44	59	74	88	103	118	132	147	162	176	191	206	221	235	250	265	279	
	PS	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	
M / M-V	2-scharig		3-scharig		4-scharig															
	3-scharig			4-scharig																
	4-scharig																			
XM / XM-V	3-scharig			4-scharig																
	4-scharig																			
XMS / XMS-V	3-scharig			4-scharig				+0												
	4-scharig																			
	5-scharig																			
XS / XS-V	4-scharig					+0														
	5-scharig							+0												
	6-scharig																			
XS pro / XS pro-V	4-scharig																			
	5-scharig																			
	6-scharig																			

Tractor pump capacity: min. 20 l/min, min. 170 bar

Max. operating pressure: 220 bar

Mounting category: Depending on the product type, Cat. 2 / 3N / 3 or 4N

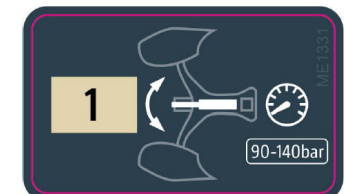
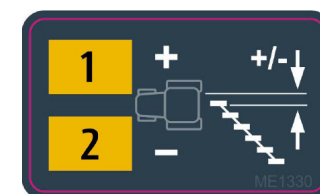
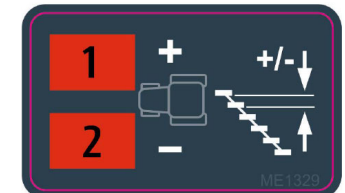
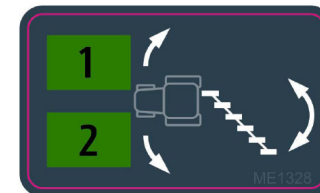
Connections: Depending on the implement equipment, the following connections are required:

1x DA: (Green) Turning, beam pivoting and packer arm (optional)

1x DA: (Red) Working width only for Vario plough

1x DA: (Yellow) front furrow (optional)

1x SA: (Beige) Hydraulic stone release (optional)



2. Preparation for operation

Tractor preparation:

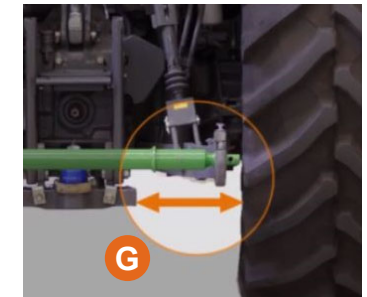
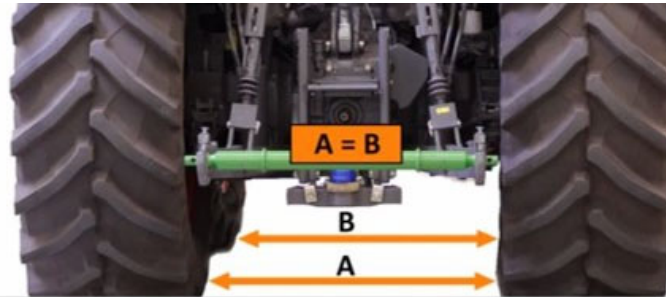
- **Tyre inflation pressure**

Same inflation pressure on the tractor tyres on one axle (**C=D**).
Depending on the tractor and tyre diameter, recommendation 1.0 - 1.5 bar Refer to the operating manual from the tyre manufacturer for the correct inflation pressure!



- **Track width of the front and rear wheels**

The inner track width of the front wheels (**B**) should be the same as for the rear wheels (**A**), but may only be max. 10 cm larger.

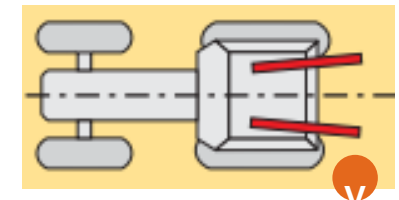
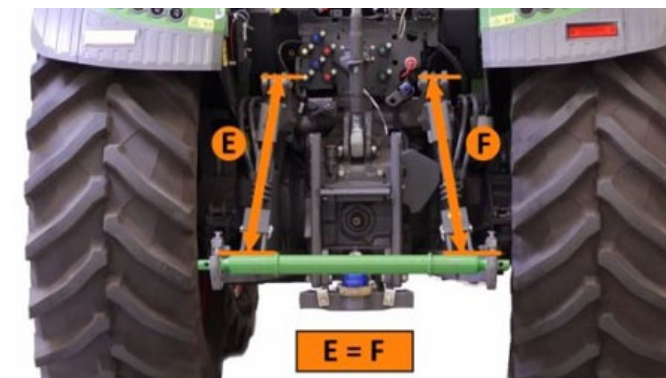


- **Lower link:**

Set the lifting struts (**E**) and (**F**) to the same length, block the elongated slots.

In working position, both lower links must have a lateral clearance of min. 8 cm (**G**).

The lower links should converge in a "V" towards the tractor. Set the lifting height such that there is no ground contact during turnover.



- **Clevis coupling**

Remove the clevis coupling, if installed.

- **Front ballast weight**

Ensure that there is enough ballast. Observe the legal regulations regarding the axle loads.

2. Preparation for operation

Visual inspection of the plough:

- **Basic implement:**
 - Visual check of beam components for damage or deformation - The share plane and share tips must be flush.
 - Check the condition of the wear parts and also the accessory parts.
 - Check the bolted connections for the correct tightening torque according to the table in the operating manual.
 - Check the shear bolt for the onset of shearing.
 - Non-stop stone release – Check the balls and sockets for wear and damage.
 - Check all of the spindles for ease of movement.

- **Hydraulic system:**
 - Visually check the hydraulic lines and connections for tightness.
 - Clean the hydraulic connections if necessary.

- **Lighting:**
 - Check the function of the electrical lights.

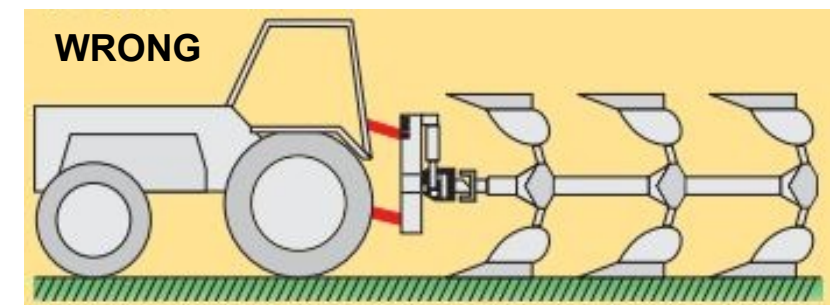
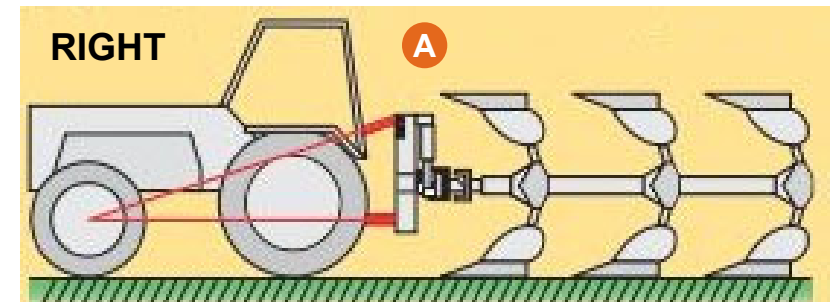
- **Cleaning, maintenance, repairs:**
 - Refer to the corresponding section in the operating manual.



2. Preparation for operation

Coupling the plough:

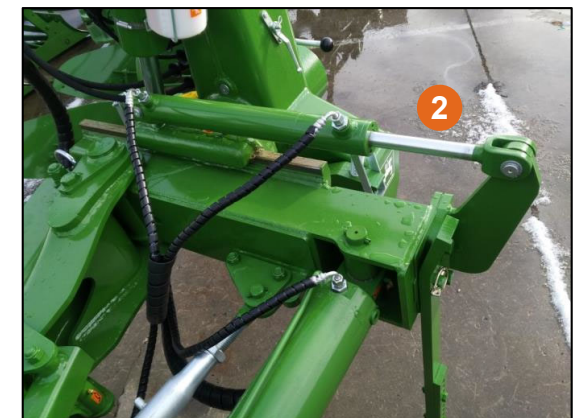
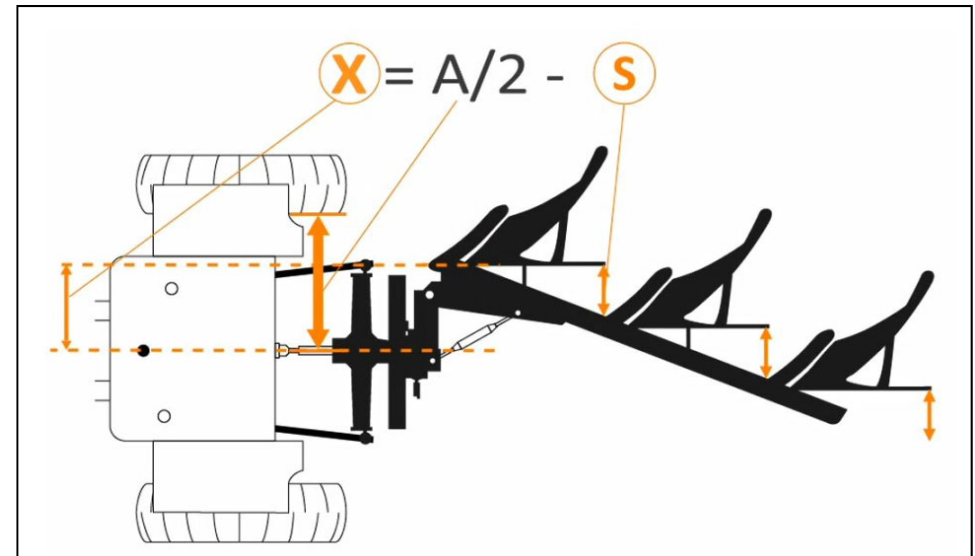
- Observe the correct sequence when coupling (see operating manual).
- Pick up and secure the implement using the lower links. Fold up the parking support. Hook on the top link, couple the hydraulic connections, plug in the lighting cable.
- Lock the lower link stabilisers for road transport.
Note: they must be open and able to move freely during operation.
- In working position, the lower links should rise slightly towards the plough.
- Attach the top link in the elongated slot – Only use the fixed hole if there are problems with the penetrating behaviour (be careful on hilly terrain).
- On the plough side, the top link should be 5 cm higher than on the tractor, and therefore it should slope down slightly towards the tractor.
- The optimum pulling force transmission is ensured when the imagined extension of the top link and lower link intersect approximately at the level of the tractor front axle (A).



3. Basic settings before field operation

Front furrow width:

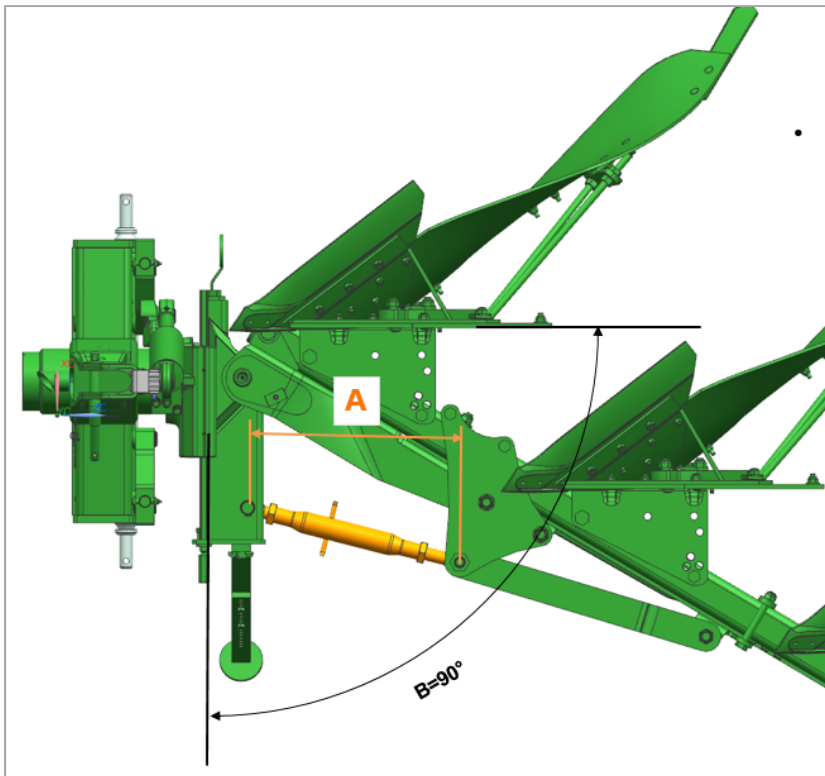
- Depending on the tractor track width – Adjustment of the working width of the 1st body according to the set working width of the remaining plough bodies.
- This can be calculated with the formula $(X = A/2 - S)$ (see graphic).
- Mechanical adjustment with the spindle on the adjusting slide (1).
- Hydraulic adjustment (2) is possible as an option, but actuate the "yellow" control unit **only** when the plough is relieved, adjustments cannot be made while driving.
- Corrections are necessary on slopes.



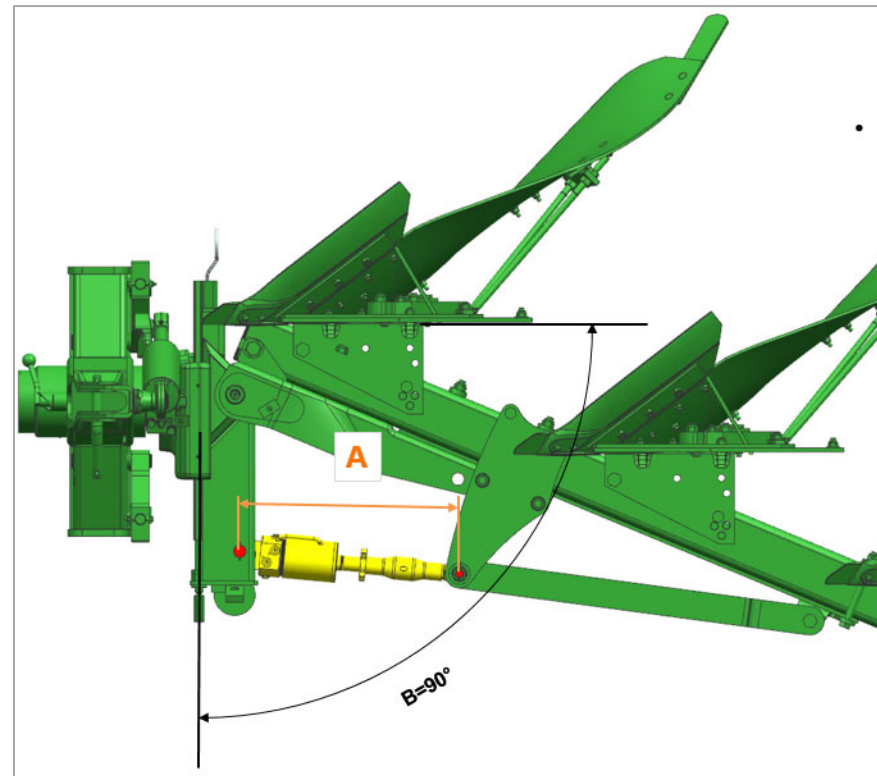
3. Basic settings before field operation

Pull point:

- Make sure that the landside angle towards the adjusting slide is correctly set.
Target: Cayros level plough **90°**
- This angle is pre-set ex-factory, and can be corrected with the length of the pull point spindle.
- Different lengths for Cayros level plough without or with beam pivoting - Type M and XM, refer the following table.



Cayros level plough



Cayros level plough with beam pivoting

3. Basic settings before field operation

Pull point:

Setting dimensions for **Cayros level plough (M, XM)**

Plough type interbody clearance (mm)	Working width (cm)	M 850	M 850	M 950	M 950	M 1020	M 1020	XM 850	XM 850	XM 950	XM 950	XM 1050	XM 1050
			with BP *		with BP *		with BP *		with BP *		with BP *		with BP *
A Pull point spindle length (mm)	32	505	592	-	-	-	-	623	683	-	-	-	-
	36	489	571	505	592	505	592	607	661	623	683	623	683
	40	473	549	489	571	489	571	591	638	607	661	607	661
	44	457	526	473	549	473	549	575	614	591	638	591	638
	48	-	-	457	526	457	526	-	-	575	614	575	614
B Adjustment slide landside angle (°)	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°

*BP = Beam pivoting

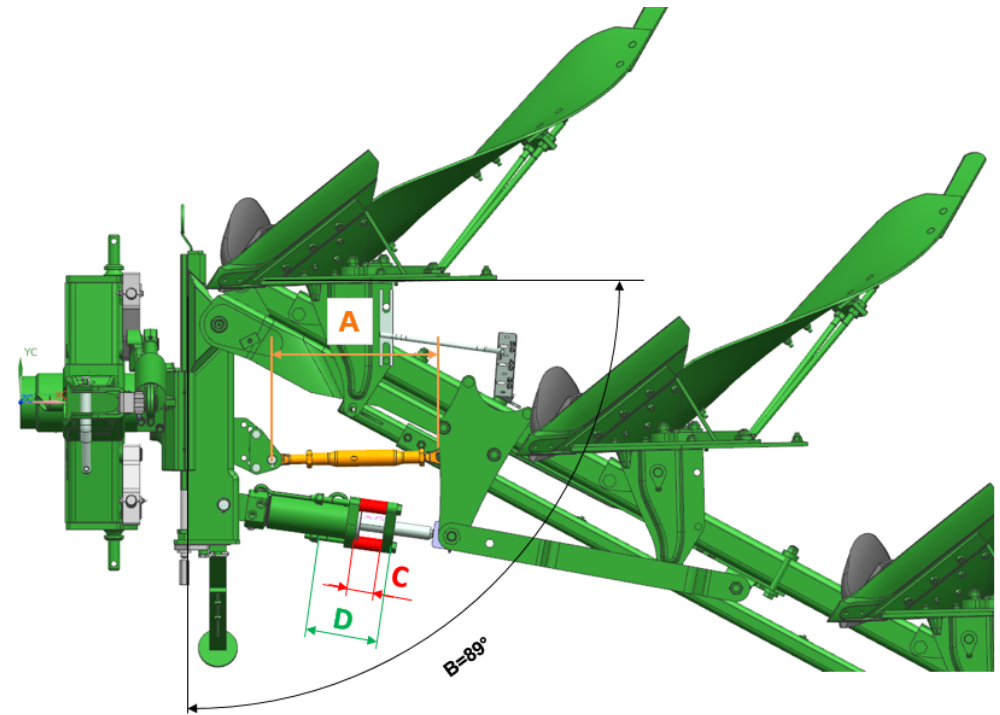
Setting dimensions for **Cayros level plough (XMS, XS, XS PRO)**

Plough type interbody clearance (mm)	Working width (cm)	XMS 850	XMS 950	XMS 1050	XS 950	XS 1050	XS 1150	XS PRO 950	XS PRO 1050	XS PRO 1150
		all	all	all	all	all	all	all	all	all
A Pull point spindle length (mm)	32	635	-	-	-	-	-	-	-	-
	36	620	635	653	622	644	663	631	654	673
	40	604	620	637	602	624	643	611	634	653
	44	588	605	621	582	604	623	591	614	633
	48	-	588	605	562	584	603	571	594	613
B Adjustment slide landside angle (°)	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°

3. Basic settings before field operation

Pull point:

- Make sure that the landside angle towards the adjusting slide is correctly set.
Target: Cayros Vario plough **89°**
- This angle is pre-set ex-factory, and can be corrected with the length of the pull point spindle.
- Please note: Always make pull point adjustments on the Vario plough at the medium cutting width (42 cm).
- Take account of corrections on the field due to slopes, soil conditions and the condition of wear parts.
- Changes to the sleeve and bolt lengths on the memory cylinder are not permitted (**C + D**) - Risk of collision!



Cayros Vario

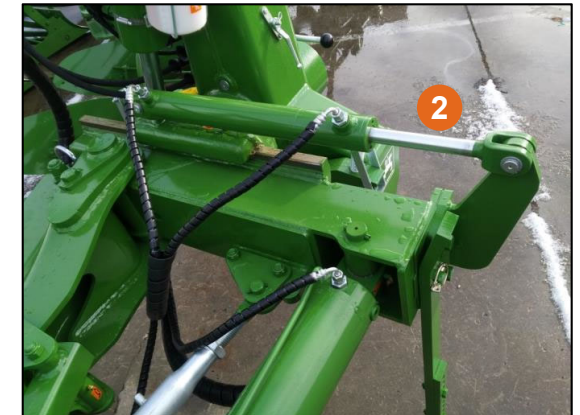
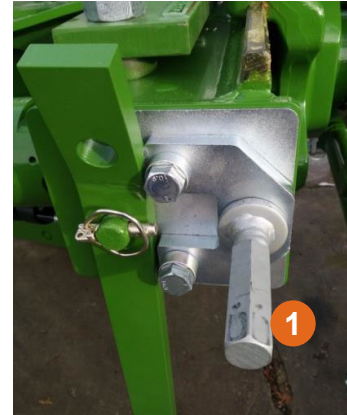
Setting measurements for Cayros Vario (M, XM, XMS, XS, XS PRO)

Plough type	M	M	M	XM	XM	XM	XMS	XMS	XMS	XS	XS	XS	XS	XS PRO	XS PRO	XS PRO	XS PRO
Interbody clearance (mm)	850	950	1020	850	950	1050	850	950	1050	850	950	1050	1150	850	950	1050	1150
A Pulling point spindle length (mm)	525	510	495	538	526	504	538	526	504	560	555	550	550	560	555	550	550
B Adjustment slide landside angle (°)	89°	89°	89°	89°	89°	89°	89°	89°	89°	89°	89°	89°	89°	89°	89°	89°	89°

4. Settings on the field

Front furrow:

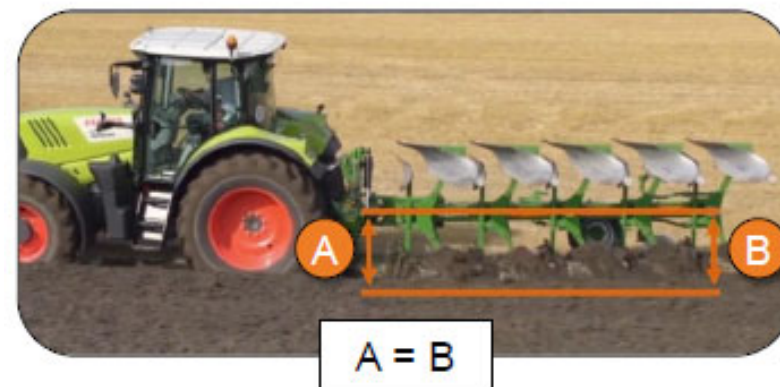
- Check the front furrow and readjust if necessary.
 - Mechanical adjustment with the spindle (1).
 - Hydraulic adjustment (2) - Actuate the "yellow" control unit, but only when the plough is relieved. Adjustments while driving are not possible and also not permitted.
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- Perform a visual check! The connecting furrow should not be visible in the plough pattern, but rather a clean, even plough pattern should be produced.



4. Settings on the field

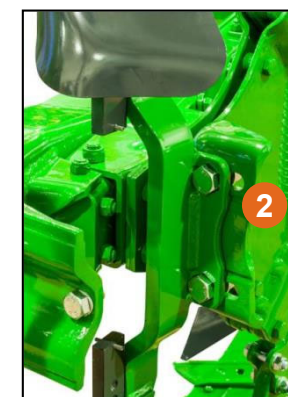
Working depth:

- Is adjusted with the height of the lower link (A) and with the support wheel of the plough (B).
- Correct top link position in the elongated slot.
 - For support wheel at the rear: in the front 1/3
 - For support wheel at the front: resting at the front of the elongated slot
- In working position, the plough beam must be parallel to the ground.



Skim coulters:

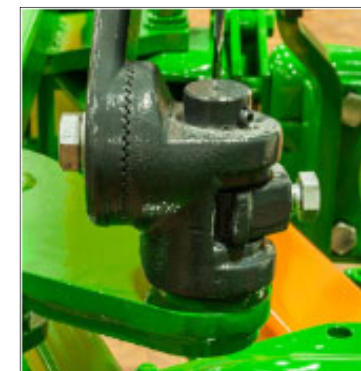
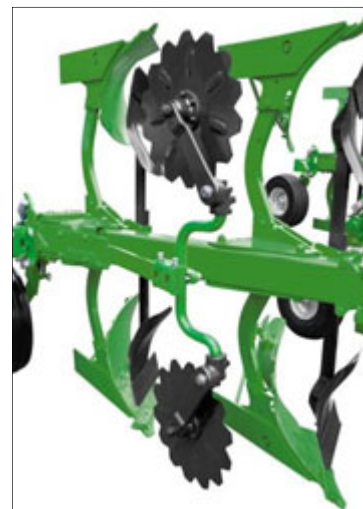
- Working depth of the skimmer should be approx. 1/3 of the total working depth, but no more than 8 cm.
- With the **adjustable version**, adjustments for the working speed and soil conditions are possible for the throwing angle with the wedge (1) and the pull-in angle with the elongated slot (2).
- The skimmers should protrude laterally by approx. 2 cm into the unploughed land (pull-in angle adjustment).



4. Settings on the field

Disc couler:

- The working depth should be in the range from 7 to 15 cm – Adjustment via the sprocket.
- Adjust the pull-in angle at approx. 2 - 3 cm parallel to the landside.
- For shear bolt ploughs, both level and Vario, adjustments can also be made in a longitudinal direction – set further to the front if there are large amounts of organic material.



Trashboards:

- Adjust the height of the trashboards to the working depth with the elongated slots.
- The support must be adjusted slightly on "pressure".

Tilt:

- The tilt should adjusted to 90° relative to the furrow.
- Separate adjustment using the spindle on the left and right of the headstock.



4. Settings on the field

Support wheels:

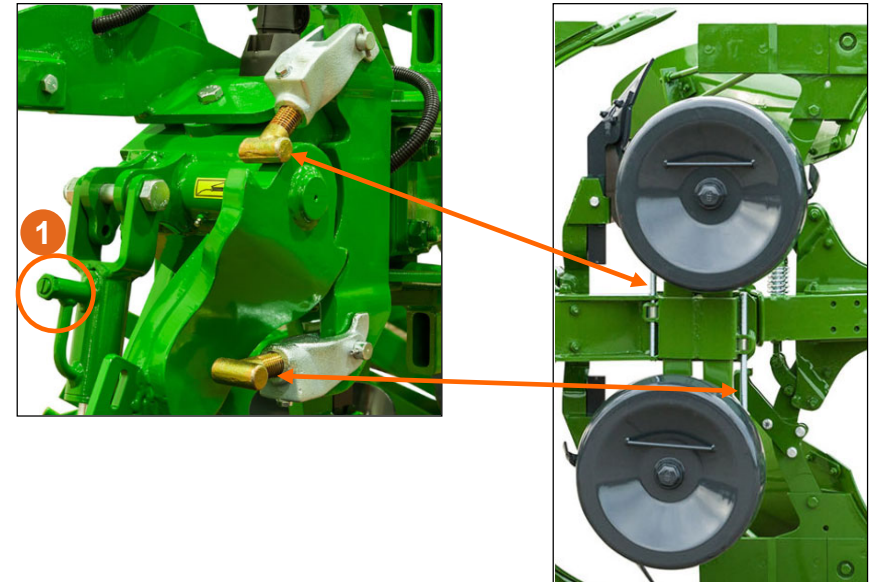
- Check the spindles for adjusting the working depth for ease of movement.
- Adjust the correct falling speed on the hydraulic damping cylinder of the pendulum wheel and the depth and transport wheel (1).

Please note: it depends on the oil temperature.

- Check the bearing clearance on the wheel bearings.
- Check the correct inflation pressure for rubber wheels according to the operating manual.

Generally:

- **Clean plough pattern** - The ideal plough setting for a clean plough pattern can ultimately always only be performed on the field.
- All pre-settings can or must be readjusted depending on the weather conditions, soil conditions and condition of the plough.
- Only an optimally adjusted plough minimises wear on the components and fuel consumption, and therefore also significantly reduces consequential costs.



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