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1. Introduction.

This user's manual and part list is intended for buyers of a SAMON SU2LS onion loader. It contains information about the use and maintenance of this machine.

When this guide was compiled the utmost care was taken to ensure that the illustrations and technical data are correct and up to date.

Ellens Landbouwtechniek B.V. recommends that users read this manual carefully before using the machine and observe the manual's instructions, directions and comments.

References to the left or right side of the machine are determined based on the direction in which the machine is driven.

Ellens Landbouwtechniek BV reserves the right to amend the contents of this manual without notice.

This machine was designed in accordance with the provisions of the Machinery Directive 89/392/EEC + amendments.

2. Warranty and liability

2.1 Warranty.

SAMON agricultural machinery is covered by a 1-season warranty. The SAMON Onion Loader is designed and intended for use to load onions. * Use of the SAMON Onion Loader for purposes other than for which it is intended is regarded as improper use.

* Always check with your Samon dealer before using the machine for other types of tops and crops.

This warranty is issued for construction defects in the machine that occur during normal use. Parts which are subject to wear are not covered by this warranty, namely:

- Chain wheels, chains, tensioning wheels, guide wheels,
- Sieve belts,
- Bearings,
- Shares,
- other parts subject to wear.

The Warranty on hydraulic components, PTO shafts, and gearboxes covers solely construction defects of the components that result in their failure as assessed by the manufacturer. This warranty lapses in the event of:

- Structural modifications and changes to the machine without permission from Ellens Landbouwtechniek BV.
- Installation and use of components on or attached to the SAMON Onion Loader that are detrimental to the rigidity of the structure.
- Failure of components due to the non-observance of maintenance intervals.
- Changing or ignoring the specified settings and adjustments that could result in damage.

Our dealers and manufacturer's service points will be pleased to provide you information and assistance.

2.2 Liability.

Ellens Landbouwtechniek BV is not liable for damage to SAMON agricultural machinery, tractors, third-party machines, injury to persons or animals or damage to products caused by:

- improper use.
- failure to observe the instructions and directions stated in the manual.

3. Safety and Environment.

3.1 General safety.

NOTE!!!

 Make sure that all persons who work with and/or service the SAMON onion Loader have read this manual and take the necessary precautions to protect their safety and the safety of others when they work with the SAMON onion Loader.

Always bear the following points in mind when working with or on the SAMON onion loader.

- The SAMON Onion Loader may be operated, serviced and maintained solely by persons who are familiar with the machine and with the necessary safety procedures.
- Always switch off the tractor's engine and remove the key from the ignition before carrying out inspections of or maintenance on the SAMON Onion Loader.
- The SAMON Onion Loader contains moving sieve and conveyor belts that can trap body parts.
- For this reason, never come close to a SAMON Onion Loader while it is in operation.
- Always wait until the sieve and conveyor belts have stopped moving before approaching the machine.
- A hedgehog belt mounted at the back of the SAMON Onion Loader unloads foreign matter. Never come close to the hedgehog belt while it is working.
- If the machine hits an object, then switch off the SAMON Onion Loader and inspect the machine for damage before switching it on again.
- The SAMON Onion Loader contains several parts which are fitted with locking pins and safety cords and/or chains. These must always be fitted to the machine.
- Damaged and broken safeguards and locking devices must be replaced immediately.
- Protective covers, sleeves and rubber flaps may never be damaged. Always replace them when they are dented or cracked.
- Always use original SAMON parts: these are designed specifically for the Onion Loader.

3.2 Environment.

Protect the environment by always cleaning and servicing the SAMON Onion Loader on a hard, impermeable floor.

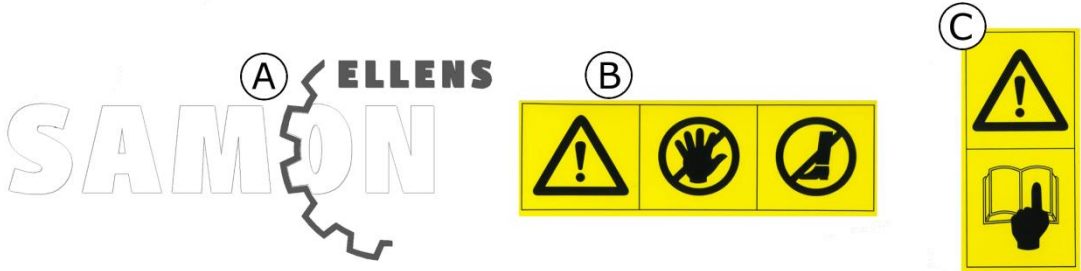
NOTE!!!

 Dispose of spent lubricant in an environmentally-friendly manner. We recommend that you collect spent oil in a closed container and deliver the oil to a recycling center or a collection point. Never dispose of spent oil by allowing it to run off into a ditch, drain, sewer or the soil.

3.3 Warning labels and pictograms.

All SAMON Onion Loaders display the following labels and warning pictograms:

	Description:	Dimensions: (wxh)	Order no.
A:	"Samon" sticker	24,8 x 7,8	TL6304
B:	"Watch out for your hand/foot" sticker	19,3 x 6,4	TL6309
C:	"Check the manual" sticker	13,3 x 6,4	TL6310



If any of these stickers is missing or illegible then you can order a replacement from your SAMON dealer.

4. Inspections before and during use.

WARNING!!!

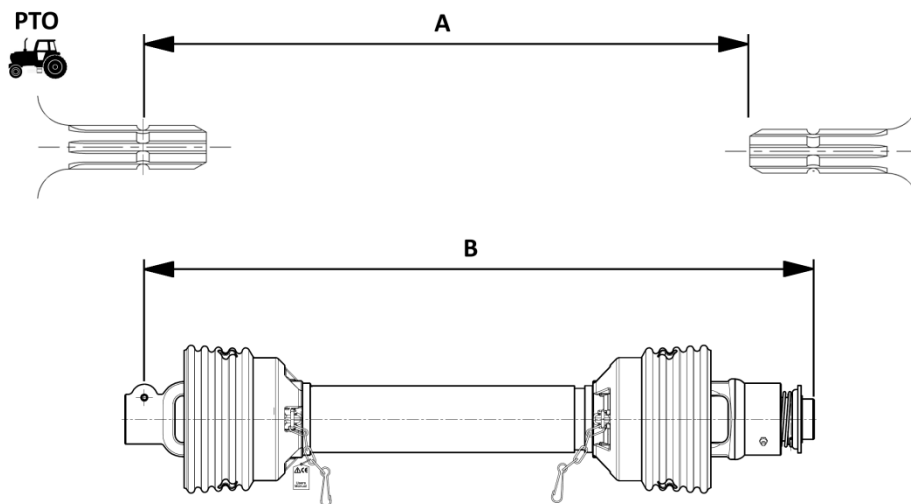
Make sure that the tractor's engine has been switched off and the key has been removed from the ignition before you carry out inspections of or maintenance on the SAMON Onion Loader.

4.1 Necessary inspections before using the SU2LS for the first time

- Make sure all steps from chapter 5 are carefully followed up.
- Check the length of the PTO shaft (see 4.2)
- Check that all the wheel nuts are properly fixed. Always tighten the wheel nuts with a big cross-key. Tighten the wheel nuts again after using the machine for two hours. Repeat this step each time a wheel has been disassembled.
- Check all points of 4.3.

4.2 Shortening the PTO shaft.

When the inspection before use reveals that the PTO shaft is too long then it can be shortened as follows:



- Connect the machine to the tractor.
- Position the PTO shafts so that they are as close as possible to each other.
- Measure distance "A" of the PTO shafts.
- Measure distance "B" of the PTO shafts (see the illustration for the measuring points).
- Subtract length "A" from length "B" and add 10mm.
- Shorten the PTO shaft by the result (see example).

Example of a calculation:

A=400 mm

B=450 mm

$$B(450) - A(400) = 50 + 10$$

To be shored by 60 mm

4.3 Necessary inspections before each use.

- Check that the machine is correctly connected to the tractor as explained in chapter 5.
- Check that the return of the machine is connected to a pressure-free return of the tractor (see 5.1.1).
- Inspect the tow-ring for damage.
- Inspect the lighting and reflectors for damage.
- Check the oil level of the oil tanks (see 6.2)
- Inspect the gearbox for leaks.
- Inspect the complete hydraulic system for leaks.
- Inspect the electronics for damage.
- Inspect the tyres for damage and check the tyre pressure (2.5 bar).
- Inspect the protective cover of the PTO shaft for cracks.
- Check that the safety chains of the PTO shaft are fitted.
- Check that the locking clips and safety cords are in place.
- Inspect all protective covers for damage.
- Inspect the sieve, hedgehog and conveyor belts for damage and wear.
- Inspect drive and guide wheels for wear.
- Check that the wheel's locking bolts are tight.
- Check that the conveyor belt is neatly between the flanges of the rollers (see 5.5.4).

4.3 Inspections during use.

- Check that the intake is at the right depth: it should enter the soil to a depth of 1 á 2 cm. If the onion loader is equipped with a rotating bar the rotating bar should be in the soil for about ¾ (see 5.6.2)
- Check to make sure that the onions are not damaged.
- Check the adjustment of the hedgehog belt (see 5.7).
- Check the wheel track (see 5.2).
- Check that the intake plates are adjusted correctly.

WARNING!!!



The speed at which wearing parts wear depends on the type of soil. For this reason, the wearing parts need to be inspected regularly to avoid damage to the SAMON Onion Loader.

5. Operation.

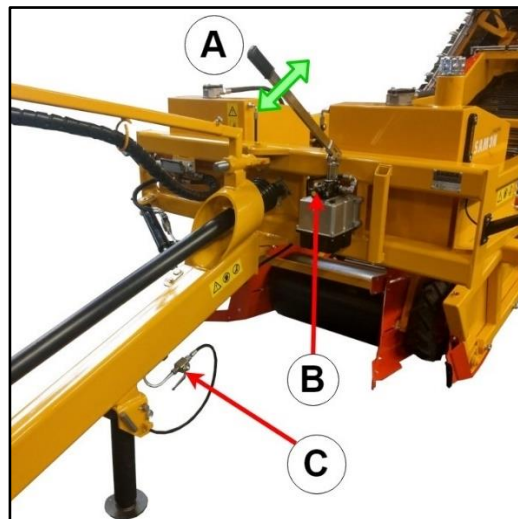
WARNING!!!

- Always use a **pressure-free** return. The male quick-fit coupling on the machine is the pressure side and the female quick-fit coupling on the machine is the return side

5.1 Connecting and disconnecting the SAMON onion loader.

Connecting

- Open valve (C) (lever in the same direction as the tube).
- Close button (B) (turn clockwise).
- Move lever (A) until the tow-ring is higher than the towbar of the tractor.
- Move the tractor so that the towbar is exactly under the tow-ring.
- Open (B) (turn anticlockwise) to lower the machine.
- Check that the tow-ring is correctly connected and locked.
- Fold the support leg and lock it with the locking pins.
- Fit the PTO shaft (540 PTO.).
- Fasten the PTO shaft protective cover safety chains
- Put the remote control in the tractor.



Disconnecting

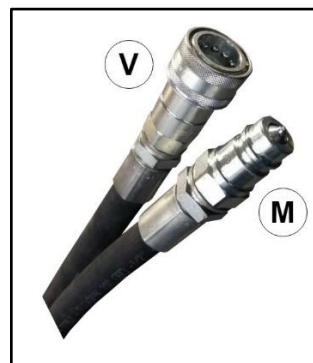
- Remove all the electrical wires and hydraulic tubes from the tractor.
- Unfold the support leg and lock it with the locking pins.
- Close button (B) (turn clockwise) and move lever (A) until the tow-ring releases the towbar.
- Close valve (C) (lever perpendicular to the tube).

5.1.1 Connecting the hydraulic hoses, lighting plug and the power plug.

Connect the hydraulic hoses using the quick-fit couplings.

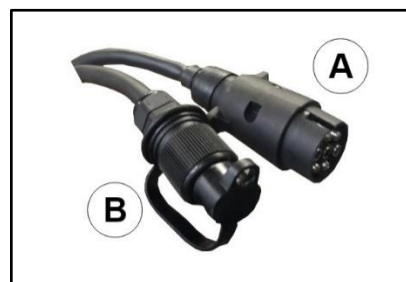
- The male quick-fit coupling (M) is the pressure side.
- The female quick-fit coupling (V) is the return side.
- Adjust the oil flow of the tractor to 25 l/min.

NOTE! Always connect the return on a pressure-free return of the tractor.



- Connect the lighting plug (A)
- Connect the power plug (B)

NOTE! Make sure that the power is 12V.

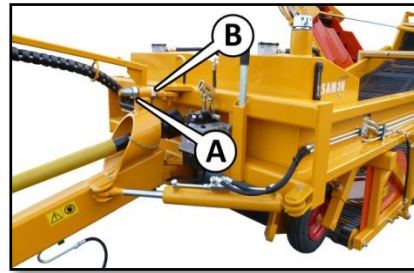


5.2 Adjusting the drawbar.

5.2.1 Adjusting drawbar height.

The height of the drawbar can be adjusted to the height of the towbar of the tractor.

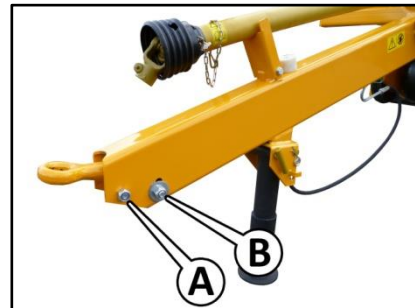
- Loosen lock nut (A).
- Adjust drawbar height with nut (B).
- Tighten lock nut (A).



5.2.2 Adjusting tow-ring.

In order to have the tow-ring parallel to the towbar of the tractor the tow-ring also needs to be adjusted when the height of the drawbar is adjusted.

- Loosen lock nuts (A) and (B) and adjust the angle of the tow-ring.
- Tighten lock nuts (A) and (B).

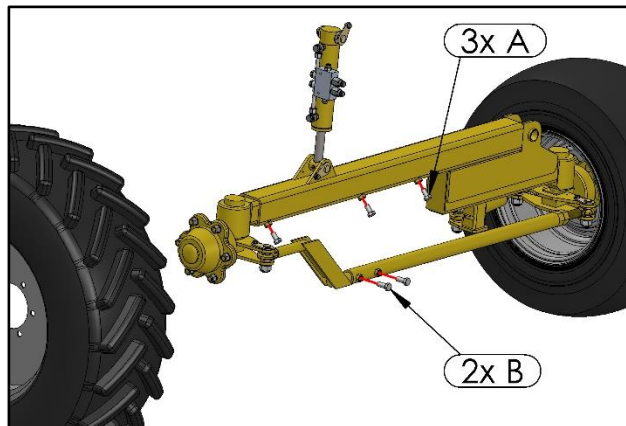


5.3 Adjusting the wheel track.

Adjusting the wheel track:

- Lift the machine until the right wheel is free from the ground.
- Loosen locking bolts (A) and (B).
- Adjust the wheel to the right track.
- Tighten all the locking bolts. Make sure that the locking bolts (B) fall into the holes of the steering axle.

Check that all five the locking bolts are used.



WARNING!!!

Always use all the locking bolts. Check that the wheel is not pulled out too far! Always observe the prevailing traffic regulations with regard to the maximum width when the machine is being transported on public roads.

5.4 Remote control.

The remote control needs to be operated within the tractor. When the SU2LS onion loader is stationary for a long time, disconnect the remote control and store it in a dry place.



Nr.:	Type:	Function:
1	Light	Power on/off indicator.
2	Switch	Power on/off.
3	Switch	Lights on/off.
4	Switch	Discharge conveyer belt on/off.
5	Potentiometer	Speed conveyer belt.
6	Joystick	Adjusting hedgehog belt / adjusting angle of machine.
7	Push button	Putting the wheels straight.
8	Joystick	Operating intake.
9	Switch	Selecting which part of the discharge conveyor should fold or unfold.
10	Joystick	Folding and unfolding conveyor belt.
11	Joystick	Adjust angle of drawbar / steering the wheels.

5.5 Operating the discharge conveyor.

The SAMON onion loader is equipped with a discharge conveyor belt to load the onions into a tipper. The electronic remote control is used to operate the conveyor belt. The drive has an infinitely-variable speed controller and the conveyor can be folded in for transport.

5.5.1 Folding the conveyor belt in and out.

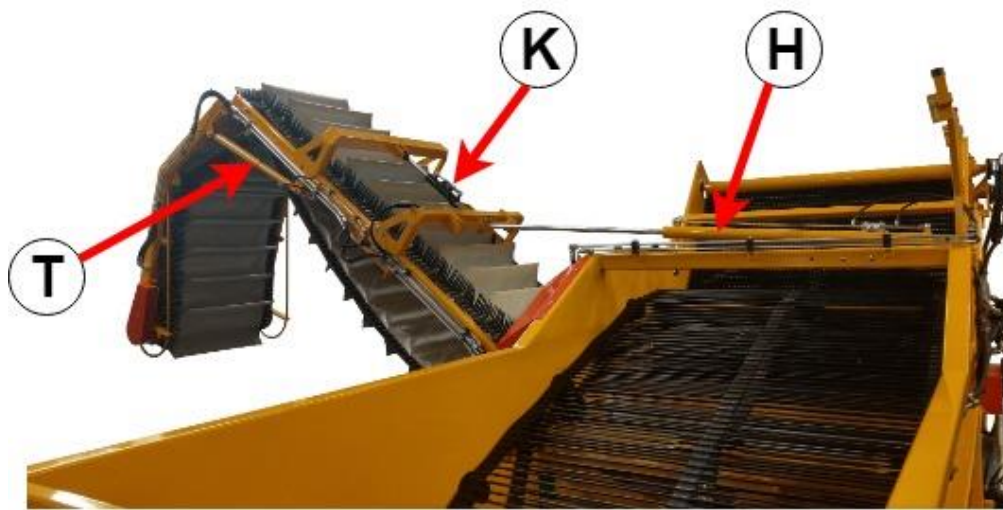
WARNING!!!

Never switch on the conveyor belt when the conveyor folded in.

Never transport a SAMON onion loader with the conveyor belt folded out.

Carefully follow up the instructions for folding the conveyor belt in and out. Ignoring these instructions can cause damage to the machine.

Three cylinders/ cylinder groups are used to fold and unfold the discharge conveyor.



H: Main cylinder: controlled by moving joystick 10 left/right (while having switch 9 in bottom position).

K: Middle part cylinder: controlled by moving joystick 10 left/right (while having switch 9 in upper position).

T: Top part cylinders: controlled by moving joystick 10 up/down.

The conveyor belt should be **folded out** as follows.

	Operation	Machine
Starting with a totally folded conveyor.		
Step 1. Maximally extend the main cylinder.	Put switch 9 in bottom position and move joystick 10 to the left.	
Step 2. Maximally extend the middle part cylinder.	Put switch 9 in upper position and move joystick 10 to the left. When finished move switch 9 back in bottom position (this is the working position).	
Step 3. Unfold the top part.	Move joystick 10 up.	

The conveyor belt should be **folded in** as follows.

	Operation	Machine
Starting with a totally folded out conveyor.		
Step 1. Retract the cylinders of the top part as far as possible. The top part will not maximally fold yet.	Move joystick 10 down.	
Step 2. Retract the main cylinder NOTE!! Do not retract the main cylinder when the top part is maximally folded out. Doing this could cause serious damage to the machine.	Put switch 9 in bottom position and move joystick 10 to the right.	
Step 3. Maximally retract the top part cylinders.	Move joystick 10 down.	
Step 4. Retract the middle part cylinder.	Put switch 9 in upper position and move joystick 10 to the right. When finished move switch 9 back in bottom position.	

5.5.2 Working position.

The main cylinder and top part cylinders can be used to adjust the height of the conveyor when loading onions. Never use the middle part cylinder when the conveyor belt is on.

5.5.3 Operating the conveyor belt.

The conveyor belt can be turned off independently from the sieving belts and the speed can be adjusted by an infinitely-variable potentiometer on the remote control.

	Operation
Turn conveyor belt on.	Put switch 4 in top position.
Turn conveyor belt off.	Put switch 4 in bottom position.
Speed up conveyor belt.	Turn potentiometer 5 clockwise.
Reduce speed conveyor belt.	Turn potentiometer 5 anticlockwise.

NOTE!!!

- Make sure that the conveyor is folded out completely before the conveyor belt is turned on. Starting the conveyor belt while it is still folded in will damage the SAMON onion loader.

5.5.4 Align conveyor belt.

When the inspection before use reveals that the conveyor belt is not neatly between the flanges of the rollers it can be adjusted as follows.

- Disassemble the protective cover on the left side of the machine.
- Loosen locking nuts (A) on the bottom of the tube.
- Adjust the position of the rollers until the desired position has been reached.
- Tighten locking nuts (A).
- Assemble the protective cover.



5.6 Intake.

5.6.1 Operating the intake.

The intake operated as follows.

	Operation	Machine
Lower intake.	Move joystick 8 downwards: which remains in this position. Always keep the joystick in the bottom position when loading onions.	
Raise intake.	Move the joystick 8 upwards until intake stops.	

5.6.2 Adjusting the height of the support wheels.

The depth of the intake is set by adjusting the height of the support wheels. Turn the spindles on the top of the support wheels until they are in the required position. The sieve belt should enter the soil to a depth of 1 á 2 cm. If the loader is equipped with a rotating bar the rotating bar should be in the soil for about ¼. The correct depth can vary with the type of soil.

5.7 Operating the sieving belts.

5.7.1 Speed sieving belts.

The sieve belt's drive (and optionally the rotating bar) is connected to the tractor's PTO shaft. The speed of the sieve belt is adjusted by adjusting the speed of the tractor's engine.



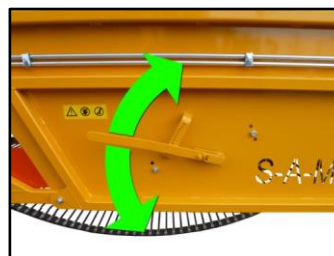
NOTE!!!

Use a PTO shaft turning at 540 RPM for the SAMON onion loader.

5.7.2 Adjusting the web shakers.

The sieve belt is equipped with web shakers to increase the sieving efficiency.

The intensity is adjusted by moving the lever on the side of the frame up or down.



5.8 Steering.

The SAMON onion loader is equipped with wheel and towbar steering.

	Operation
Turn towbar to the left.	Move joystick 11 to the lefts.
Turn towbar to the right	Move joystick 11 to the right.
Turn the wheels to the left.	Move joystick 11 downwards.
Turn the wheels to the right.	Move joystick 11 upwards.
Align wheels.	Press button 7 one time.

5.8.1 Zeroing the wheels.

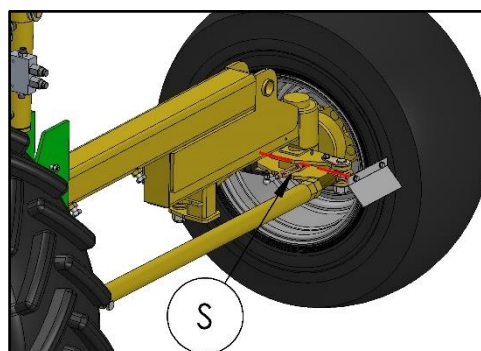
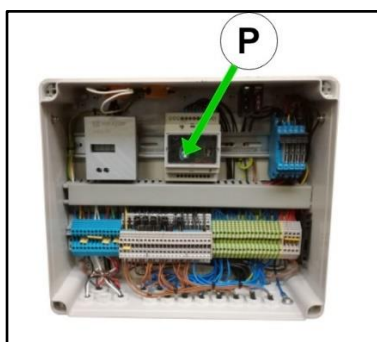
Button 7 can be pressed to align the wheels. If after pressing button 7 the wheels are not perfectly straight this can be adjusted in the electric main cabinet as follows.

- Disassemble the orange protective cover on the right side of the machine and open the main cabinet.
- Turn the white potentiometer (P) with a little screwdriver.
- Press button 7 again.
- Repeat these steps until the required position is reached.

NOTE: a small adjustment of potentiometer (P) can make a big adjustment in the alignment of the wheels. Therefore, start with extremely small steps.

If the potentiometer cannot adjust the wheels to a satisfying position the sensor on the wheel axle should be adjusted.

- Loosen the locking nut of turnbuckle (S).
- Adjust turnbuckle (S) until the wheels are close to a satisfying position and tighten the locking nut again.
- Adjust the position of the wheels the perfection with potentiometer (P).



5.9 Hedgehog belt.

The SAMON onion loader is equipped with a hedgehog belt on the back of the machine. This hedgehog belt discharge foreign matter that cannot be separated by the sieving belts. The angel of the belt can be adjusted as required for the size of the product.

5.9.1 Operating the hedgehog belt.

	Operation	Machine
Increase the angle of the hedgehog belt.	Move joystick 6 upwards.	
Decrease the angle of the hedgehog belt.	Move joystick 6 downwards.	

5.9.2 Speed of the hedgehog belt and reversing roller.

The speed of the hedgehog belt and reversing roller is varied by turning the infinitely-variable power-control knob on the left side of the machine.

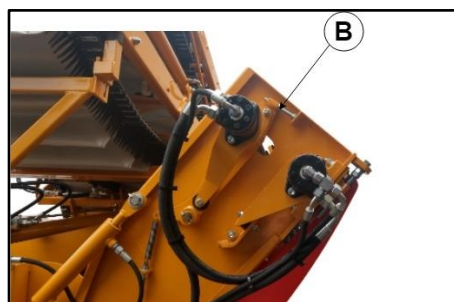
Turn the knob clockwise or anticlockwise to adjust the speed of the belt.



5.9.3 Adjusting the height of the reversing roller.

The reversing roller prevents the discharge of products via the hedgehog belt. The reversing roller is adjustable to ensure that the SAMON onion loader can be used with products of different dimensions.

The height of the reversing roller is adjusted by loosening locking nuts (B) and then adjusting the reversing roller to the required height. Products with the minimal desired height should not fit between the reversing roller and the hedgehog belt.



5.10 Leveling.

The Samon onion loader is equipped with a cylinder (V) on the rear axle to level out the machine.

	Operation	Machine
Leveling left / right.	Move joystick 6 to the left / right.	

6. Maintenance.

WARNING!!!

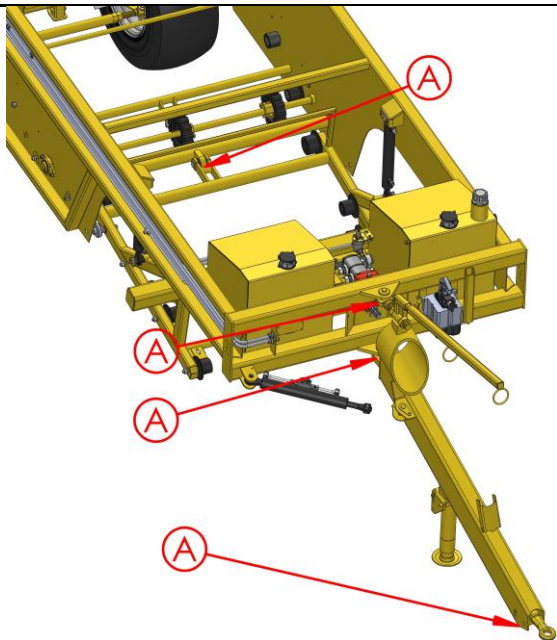
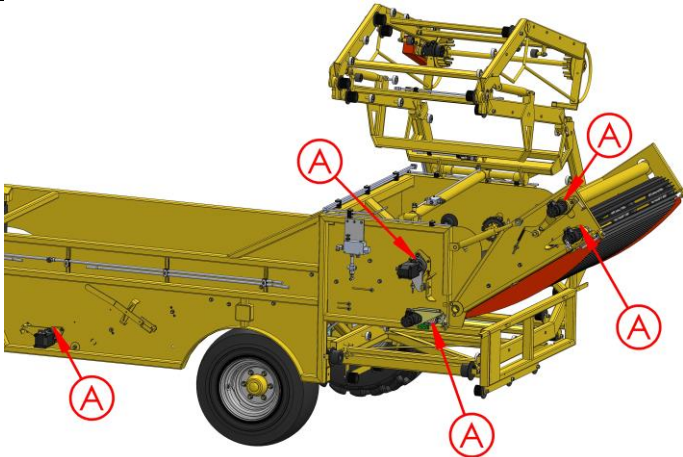
Make sure that the tractor's engine has been switched off and the key has been removed from the ignition before you carry out maintenance on the SAMON onion loader.

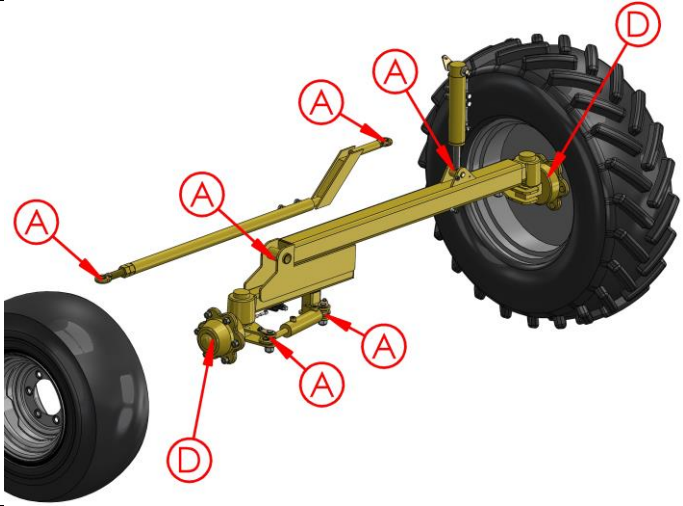
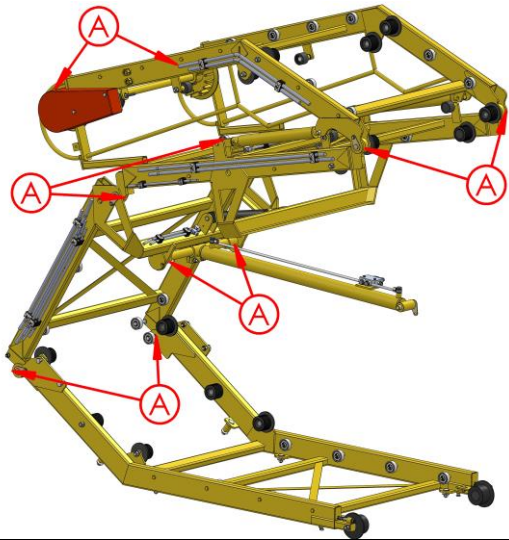
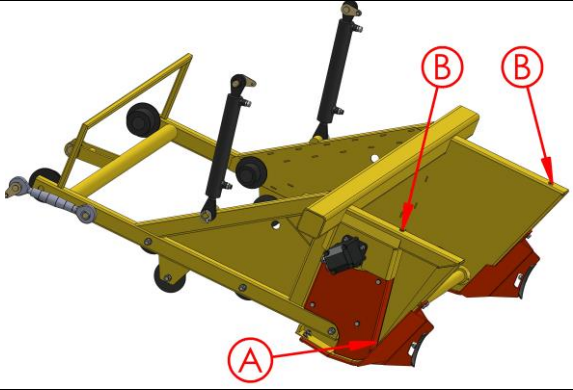
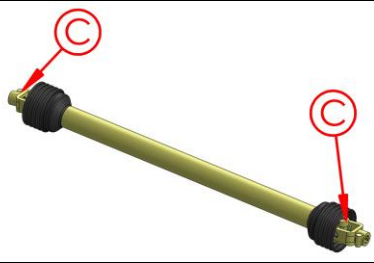
6.1 Lubrication schedule.

The SAMON onion loader needs to be lubricated regularly to achieve optimum performance.

Lubrication schedule for the SAMON onion loader.

Lubrication point:	Interval:	Item:
A	8 hours	Bearings, tensioners, support wheels and hinges.
B	3 hours	Rotating bar bearings.
C	50 hours	PTO shaft.
D	3 years	Stub axle rear wheels

• Lubrication points drawbar • Support wheels • Hinge point intake Note: greasing nipple is place on the bottom side.	
• Bearings driveshaft 1st web • Bearings driveshaft 2nd web • Bearings hedgehog belt + reversing roller Note: Bearings are also placed on the other side of the machine. • Chain sieve stars.	

• Bearings steering axle • Leveling cylinder • Steering cylinder • Hinge point rear axle	
• Hinge point bottom part / lower middle part • Hinge point upper middle part / lower middle part • Hinge point top part / upper middle part • Hinge point main cylinder • Conveyor drive bearings (top part)	
<u>Optional</u> • Chain rotating bar • Rotating bar bearings Note: Grease the rotating bar bearings and chain while the rotating bar is turning.	
• PTO shaft cross kit	

6.2 Level and temperature of the hydraulic oil.

A sight-glass and thermometer are mounted on the side of the hydraulic oil tank.

When no oil is visible in the sight glass then top up the hydraulic oil.

The temperature of the hydraulic oil when the machine is in operation should be about 65 °C.

This temperature is in part determined by the ambient temperature.

The hydraulic tank is filled with "H46" hydraulic oil when the machine leaves the factory.



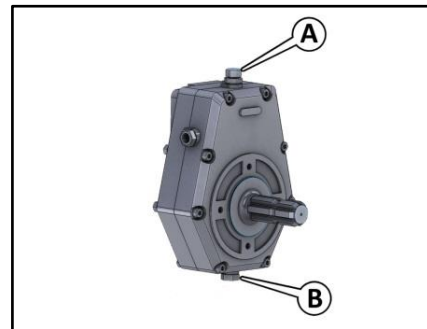
NOTE!!!

The hydraulic oil must be replaced every 2 years.

6.3 Replacing the gearbox oil.

The gearbox is filled with SAE 90 gearbox oil when the machine leaves the factory.

- Remove the venting nipple (A) on the top of the gearbox and the plug (B) on the bottom of the gearbox.
- Drain the gearbox and collect the oil in a container: make sure that the oil is processed in an environmentally-responsible manner.
- Fit the plug (B) in the bottom of the gearbox.
- Fill the gearbox with 0.35 liters of SAE 90 gearbox oil.
- Fit the venting nipple (A).



NOTE!!!

The gearbox oil must be replaced every 2 years.

7. Transport and storage.

7.1 Transport on a vehicle.

- Check the height and width of the SAMON Onion Loader and mark any projecting parts, where applicable.
- Make sure that the machine is fastened securely with strong rope or tensioning belts before the transport.
- Block the wheels with wheel blocks.

7.2 Transport behind a tractor.

- Observe the prevailing traffic regulations when you transport the SAMON Onion Loader behind a tractor on the public roads.
- Make sure that the conveyor belt has been folded in before you begin to transport the SAMON Onion Loader.
- Make sure that the intake has been folded in before you begin to transport the SAMON Onion Loader.
- Never switch on the sieve, hedgehog or conveyor belts while transporting the SAMON Onion Loader.
- When you are steering the tractor bear in mind that the tail of the SAMON Onion Loader swings out in bends.
- The driver's view is obstructed when the tractor is towing the SAMON Onion Loader.

7.3 Storage.

- Clean the machine thoroughly.

NOTE!!!

- ! When using a high-pressure spray make sure that you do not direct the spray on or in bearings and any electronics, where relevant.

- Check the tyre pressure and inspect the tyres for damage (2,5 bar).
- Check all wearing parts and replace any worn parts in good time.
- Check all bearings and replace when the play is excessive.
- Inspect the sieve, hedgehog and conveyor belts for damage and breakage.
- Inspect all guide and vibratory rollers.
- Inspect the feed roller for damage and breakage.
- Inspect the complete hydraulic system for damage and leaks.
- Inspect the complete electronic system for damage.
- Lubricate the entire machine (see the Lubrication Section for more details).
- Check the oil level in the gearbox and top up if necessary.
- Check the oil level of the hydraulic system and top up if necessary.
- Inspect all protective covers and rubbers.
- Inspect the universal joints and the sliding parts of the PTO shaft for wear.
- Lubricate the universal joints and the sliding parts of the PTO shaft.
- Inspect the protective cover of the PTO shaft for cracks.
- Check the safety chains of the PTO shaft.
- Inspect the safety cords and locking clips for damage and cracks.
- Store the machine when it is dry.

8. Technical information and diagrams.

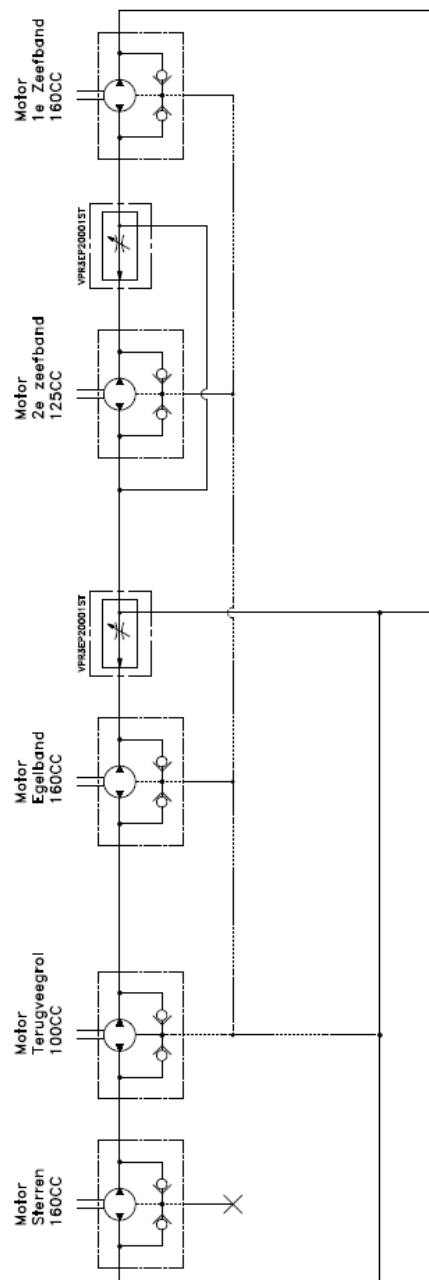
8.2 Technical information.

SAMON onion loader "SU2LS"	
Sieve belt width:	First web 1,25-meter, second web 1,50-meter
PTO shaft:	540 PTO
Gearbox oil:	SAE.90EP / 0,35 liter
Hydraulic oil:	Multigrade EP, H46
Weight: *	3500kg

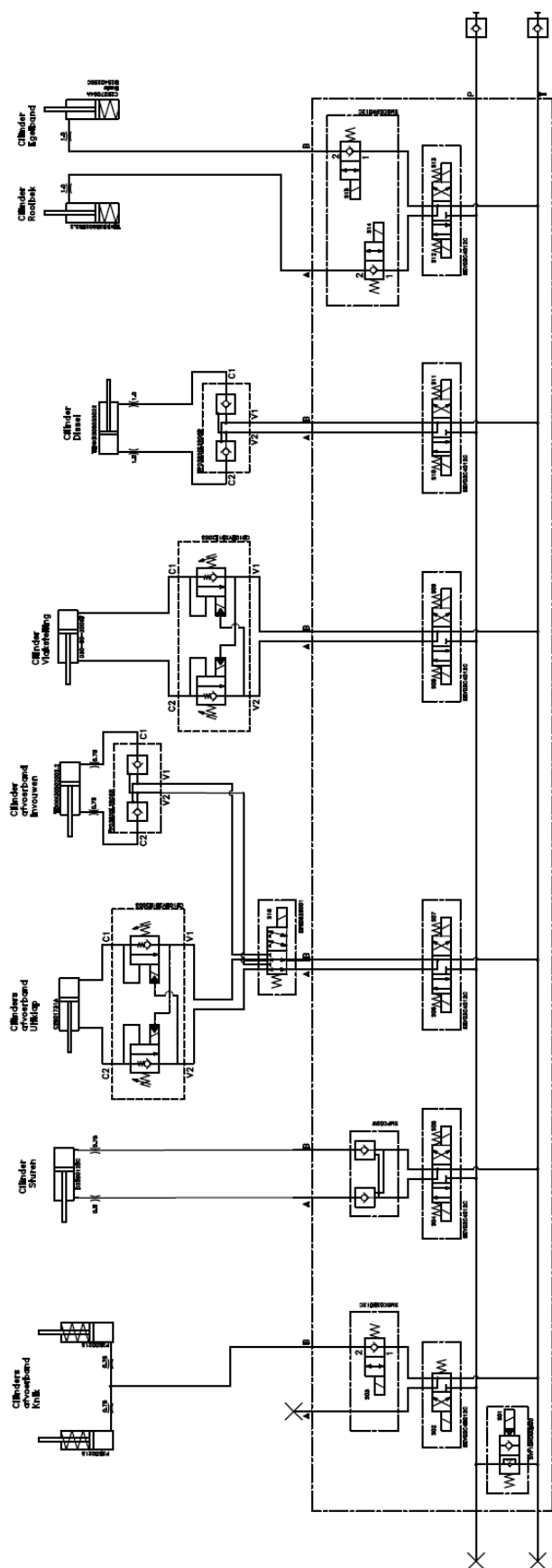
* Depending on options and extras.

8.1 Hydraulic diagram of hydraulic motors.

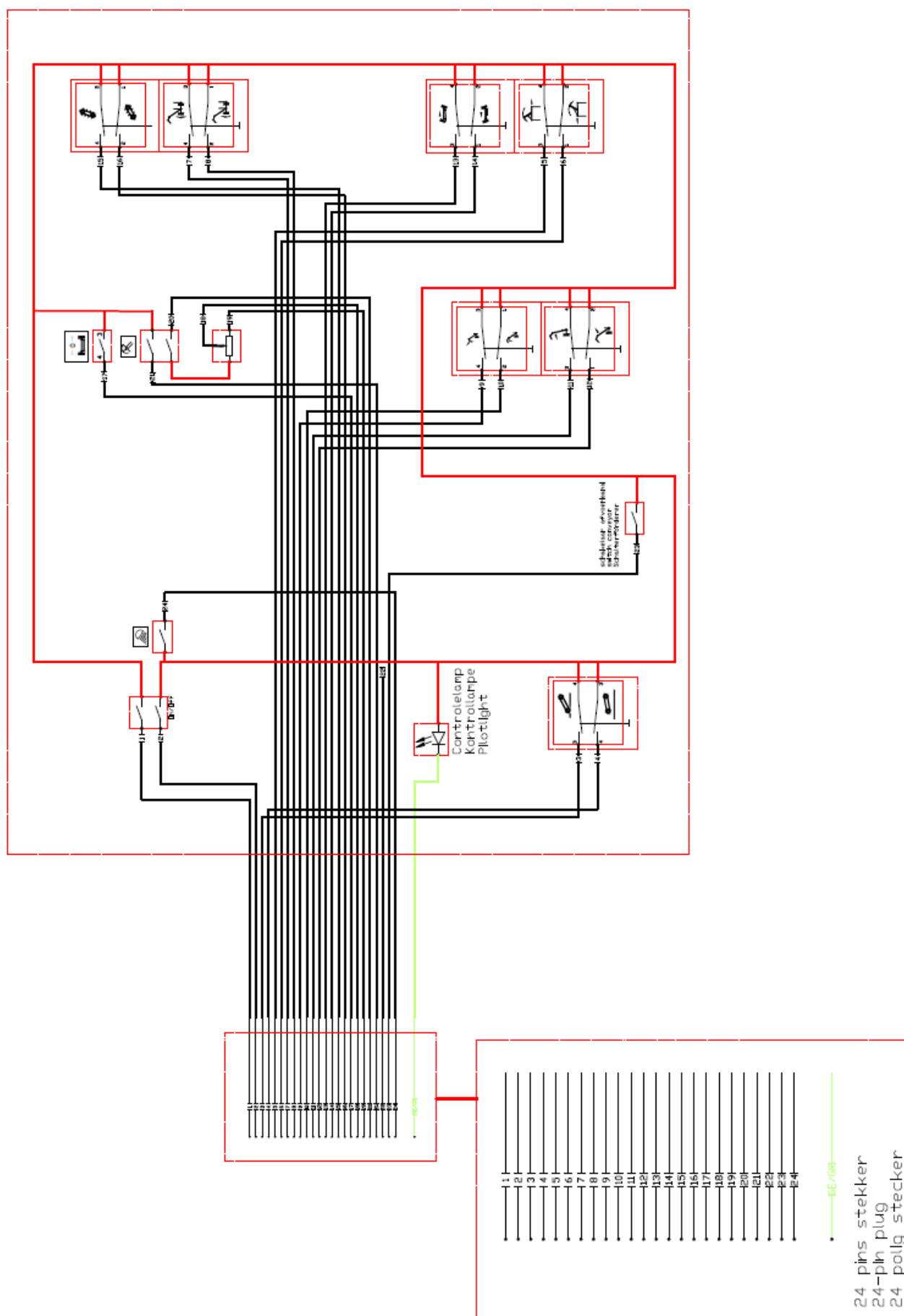
All diagrams are digital available via spareparts@samon.nl



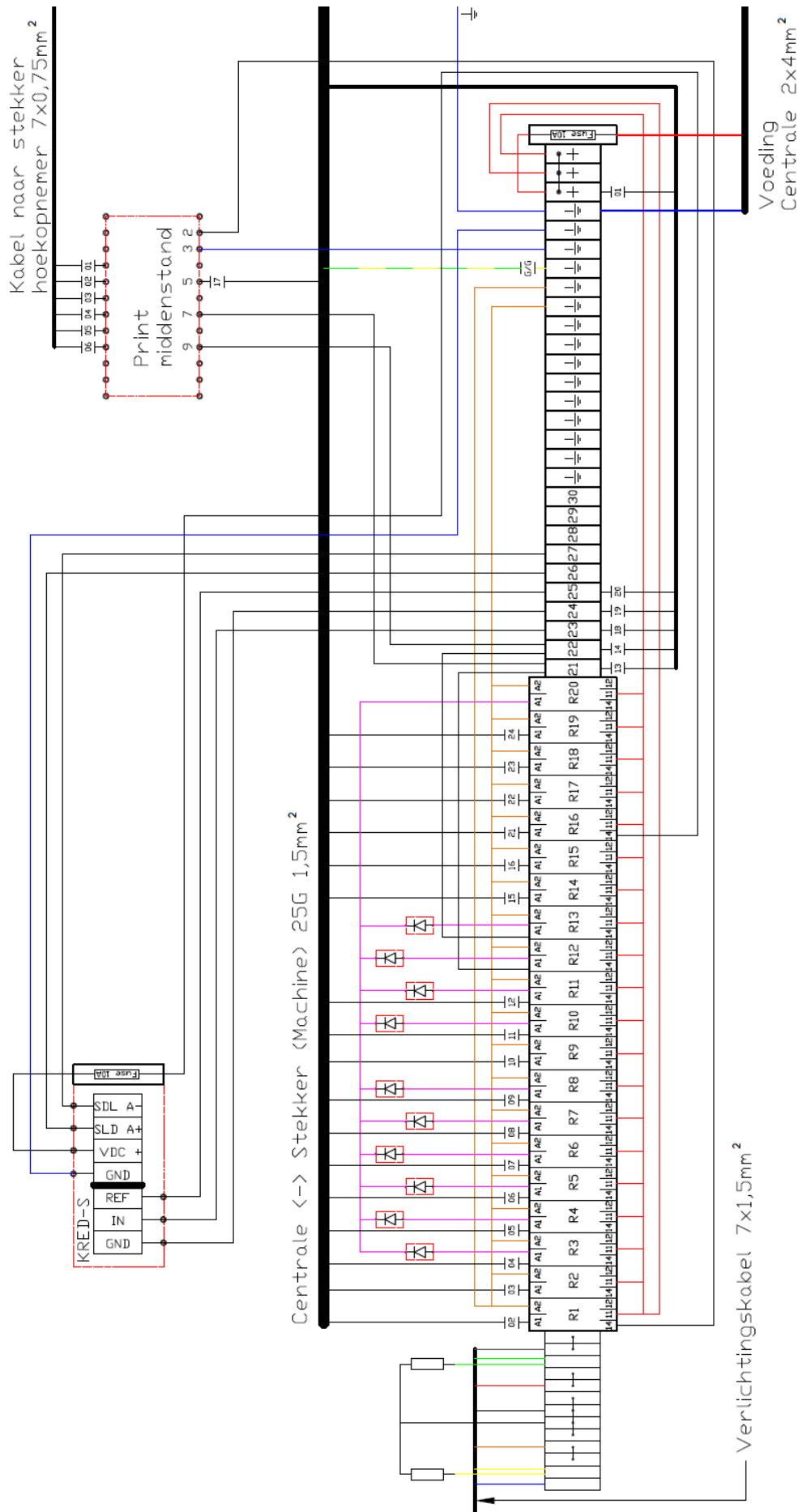
8.2 Hydraulic diagram of hydraulic cylinders



8.3 Electric diagram for remote control



8.4 Electric diagram for main cabinet





9. Ordering parts.

Follow the instructions shown below when you are ordering parts to make sure that you receive the correct parts quickly.

1. Order parts only from official SAMON dealers.
2. State the type, model and serial number of your machine shown on the type plate.
The type plate is mounted on the frame near the drawbar.
3. Always state the full part number and description of the part.

Type plate:



10. Troubleshooting.

General troubleshooting diagram.

Defect:	Cause:	Remedy:
Hydraulic oil temperature too high	Low oil level	Check for leaks and top up
	Speed of PTO shaft too high	Check the speed
	Working pressure too high	Check the working pressure
Hydraulic oil level low	Leakage in system	Find leak and repair
Oil seal comes out of the hydraulic motor	Too high pressure on the hydraulic system	Use pressure-free return
Virtually no product is picked up and product is left behind by the machine	Intake too high	Adjust height of intake (see 5.6.2)
No power supply to remote control	Fuse has blown	Replace fuse in main cabinet
	Plug defective	Check plug and replace if necessary
Failing functions in the whole system	Voltage too low	Check that the plug of the tractor is minimal 12V
A specific function is unavailable (Check whether the LED indicator on the magnetic coil lights on operating the function)	Relay defective (LED indicator does not light)	Replace relay
	Magnetic coil defective (LED indicator does light)	Replace magnetic coil