

Operating manual

All-Around-Weeder RADIUS SL PLUS

Item number: CL861.000000 right; CL861.100000 left



CLEMENS GmbH & Co. KG
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1 Preface

1.1 Advantages of the RADIUS SL PLUS

- 1. High tractor forward speed**
- 2. Fast reaction of the RADIUS**
- 3. Highly sensitive sensor unit**
- 4. Sensor unit quickly adjustable**
- 5. Quick and easy installation on tractors or other mounting devices**
- 6. Very compact, ideal for narrow rows**
- 7. Easy adjustment to different soil conditions by a vast variety of frontal tools**
- 8. RADIUS is the alternative to chemical weed control.**

Dear customer!

With the RADIUS SL PLUS you have acquired an excellent alternative to chemical weed control.

The RADIUS SL PLUS makes it easy to keep the area between the plants clean. The smooth-running single-acting control ensures a fast forward travel tractor speed. The soil around the plant is loosened quickly and precisely.

The single-acting hydraulic system helps to avoid the plants continuously, with small as well as with large oil supply and even with fast forwarding speed. Even when the plants are angled forward it is possible to drive with RADIUS, due to the easily adjustable sensor unit.

With the CLEMENS RADIUS SL PLUS you get a mature technology with a simple and uncomplicated hydraulic control unit.

The blade share can be changed easily and quickly.

RADIUS SL PLUS as a compactly constructed device can be mounted quickly and suits perfectly even two-sided mounting in small plantations.

Note:

The manufacturer is not liable if the operating manual is not followed or if unauthorized spare parts are used.

Furthermore, the RADIUS SL PLUS must not be subjected to any modifications, additions or conversions that could impair safety without the manufacturer's approval.

Technical alterations reserved!

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2 EC Conformity Declaration

in line with the EC Recommendation 2006/42/EC

Manufacturer / Address: CLEMENS GmbH & Co. KG/Maschinenfabrik
Rudolf - Diesel - Straße 8
54516 Wittlich / Mosel

This is to certify that type and style of:

Machine type:

CL861.000000; CL861.100000 (Around-the-vine Weeder RADIUS SL PLUS)
CC849.000000; CC849.100000 (Mower)
CA917.050000; CA917.150000 (Rotary Cultivator)
CL917.007000; CL917.107000 (Driven Disks)

complies with the following relevant provisions (directives):

Machinery directive	2006/42/EC
---------------------	------------

The following (harmonized) standards have been applied:

Safety of machines	DIN EN ISO 12100:2011-03
Safety of machines Safety distances against reaching hazardous areas with the upper and lower limbs	DIN EN ISO 13857:2008-06
Agricultural Machinery Safety Part 1 General requirements	DIN EN ISO 4254-1:2016-09
Agricultural Machinery Safety Part 5 Powered soil tillage implements	DIN EN ISO 4254-5:2011-05
Fluid technology General rules and safety requirements for hydraulic systems and their components	DIN EN ISO 4413:2011-04
Safety of machines Minimum distances to avoid crushing of body parts	DIN EN 349:2008-09

The following national technical standards and specifications were applied:

Details on the authorized signatory:

Name, first name: Clemens, Bernhard
Position: Managing Director

Details on the authorized person for EC documentation:

Name, first name: Loch, Christof
Position: Technical Director

Wittlich, 28.01.2019
Place, date



legally binding signature

3 Description of RADIUS SL PLUS

Meaning of the information symbols:



Attention:

In this operating manual, points concerning your safety are marked with this symbol. Observe the instructions and pass on all safety instructions to other users!



Note:

This symbol indicates special additional information. Observe the notes and pass on all information to other users!

3.1 General description and intended use

CLEMENS RADIUS SL PLUS mainly consists of the following assemblies:

- Basic body with hose guide
- Mounting for shaft unit or driven tool
- Control valve
- Control unit
- Swivel cylinder
- Spring unit

The RADIUS is attached with clamping straps to a standard spar of the corresponding mounting bracket, lifter, mounting frame, etc.

The operating principle of the RADIUS is based on a control valve supplied by the tractor hydraulics providing oil to the swivel cylinder. The blade share is turned outwards while driving up towards the vine. When the sensor rod touches the vine, the control valve is actuated and the oil flow to the swivel cylinder is interrupted. The blade share pivots inwards supported by spring force and thus avoids the vine. Once the pressure on the sensor rod has been relieved, the swivel cylinder is again supplied with oil and the blade share swivels back to its initial position.

3.2 Basic equipment

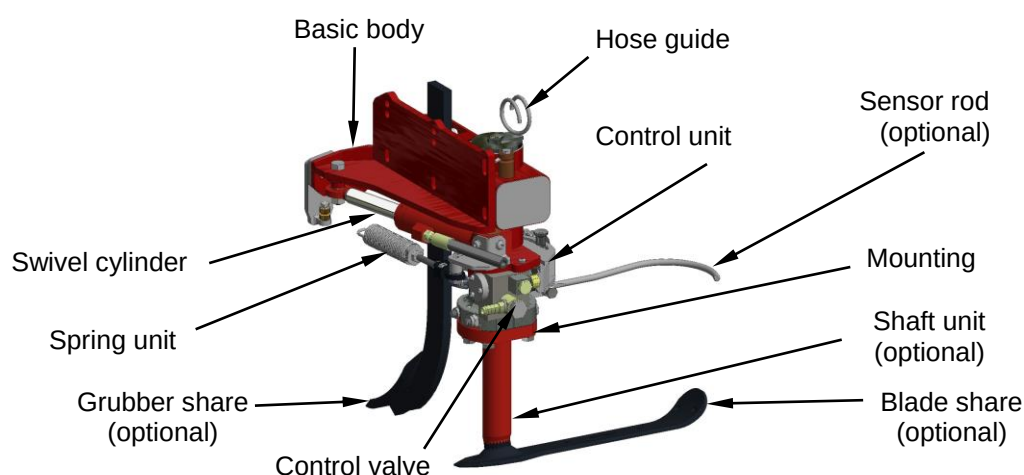


Figure 1 Description of RADIUS SL PLUS

The optional attachments and tools can be found in Chapter 10: Spare parts list and optional parts

3.4 RADIUS front-mounted, double sided

- The frame width for front attachment depends on the row width as well as on the share length used. This results in the following:

- | | |
|-------------------------|---|
| a) Share length 370 mm: | Frame width (A) = Row width (B) – 650 mm (25.6") |
| b) Share length 500 mm: | Frame width (A) = Row width (B) – 910 mm (35.8") |
| c) Share length 620 mm: | Frame width (A) = Row width (B) – 1150 mm (45.3") |

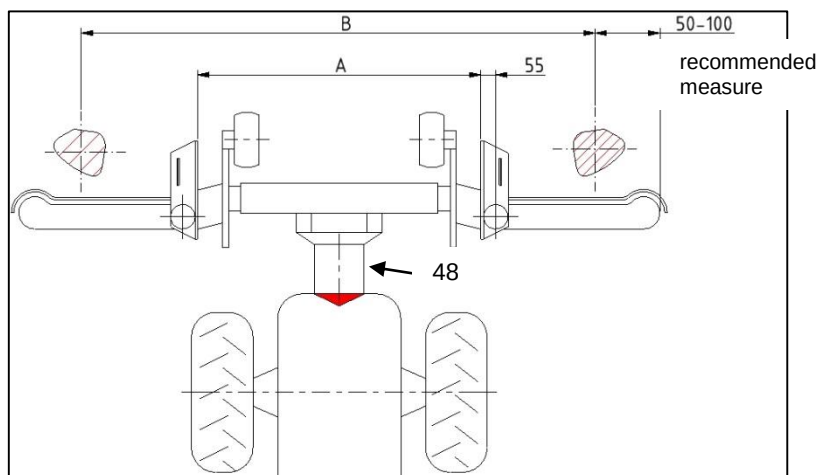


Figure 4 Attachment two-sided front

- Please determine the mounting height of the front column lifter as described in section 3.3.2 „Mid-mounting with column lifter“. The column lifter S-2R front is single-acting and has a stroke of 500 mm (19.7"). On request, the lifter can also be supplied with a double-acting cylinder
- The mounting bracket CL759.270000 (Figure 4, item 48) is equipped with a pendulum compensation.
- If you drive mostly on hillsides mount the frame a little deeper than normal, in order to ensure that the RADIUS tools will have contact with the soil when you enter the row which is headed down a steep slope. Experience showed that a working depth of 110 mm (4.3") is best. That means that while mounting the device, the hydraulic cylinder should be extended 130 mm (5.1"). (Device completely mounted and placed on level ground).

3.5 Support wheels for height guidance



In order to achieve an optimum working result, it is advisable to use support wheels with most attachment combinations. The support wheels are used to guide the height of your attached tools, enabling the ground contour to be accurately traced. Depending on the application, you can choose between a manually or hydraulically adjustable support wheel.

Figure 5 Support wheels for height guidance

3.6 Validity

This operating manual is valid for the CLEMENS machines of the series:

- CL861.000000; CL861.100000 (Around-the-vine weeder RADIUS SL PLUS)

3.7 Contact

Manufacturer:

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E-Mail: info@clemens-online.com
Web: www.clemens-online.com

3.8 General technical data

3.8.1 Machine number

For complaints and spare parts orders, please specify type and machine number or year of construction. The data is located on the **nameplate on the base frame**.

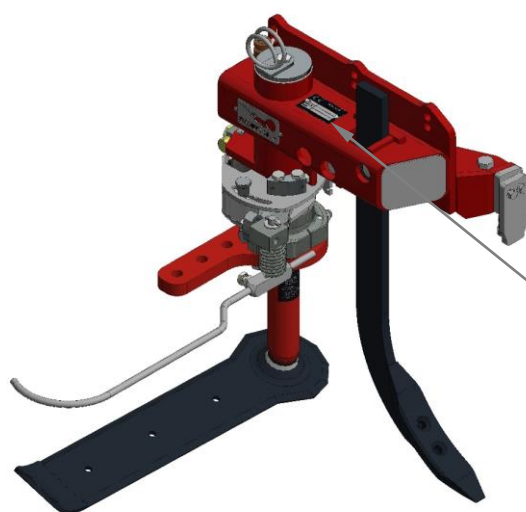


Figure 6 Position nameplate



Figure 7 Nameplate

In order to make the ordering process as easy as possible for you, we advise you to enter your machine data in the table below so that you always have it at your disposal.

Type:	RADIUS SL PLUS
Serial number:	
Year of construction:	

3.8.2 Technical Data: RADIUS SL PLUS

Type:	RADIUS SL PLUS
Data	
Machine weight approx.	approx. 35 kg (77 lb.) without blade share and sensor rod
Dimensions Length x Width x Height approx.	approx. 430 x 300 x 500 mm (17"x12"x20") without blade share and sensor rod
Lubricant	sulphur-free grease
Hydraulic oil	CH32D
Oil requirement one sided	6 – 10 l/min (1.5 – 2.6 gpm)
Oil requirement two sided	12 – 20 l/min (3.0 – 5.2 gpm) (Flow divider is required.)

3.8.3 Technical Data: Add-on tools

	Weight (without hydraulic hoses)	Length x width x height approx.	Oil requirement
Mower (with stone protection)	approx. 35 kg (77 lb.)	500 x 500 x 320 mm (20"x20"x13")	approx. 20 l/min (5.2 gpm)
Rotary Cultivator	approx. 23 kg (51 lb.)	450 x 300 x 320 mm (18"x12"x13")	approx. 35 l/min (9.25 gpm)
Driven Disks	approx. 42 kg (93 lb.)	700 x 400 x 400 mm (28"x16"x16")	approx. 20 l/min (5.2 gpm)

4 Safety instructions

Compliance with the safety instructions is mandatory.



Attention:

- Replace damaged and illegible stickers immediately!
- Replace warning pictograms when repairing or replacing parts!
- During cleaning work, make sure that warning pictograms are not damaged!
- Familiarize yourself with the statements of the warning symbols and with the danger points on the machine!

4.1 General safety and accident prevention regulations

4.1.1 General

- (1) Before every start-up check the implement and the tractor for traffic and operational safety!
- (2) In addition to the instructions in this operating manual, observe the generally applicable safety and accident prevention regulations!

- (3) The warning and information signs attached to the device provide important information for safe operation; observance serves your safety! The labels must be kept in a perfect, easily legible condition!
- (4) Before starting work, familiarize yourself with all devices and operating elements and their functions.
- (5) Operating devices (ropes, chains, rods, etc.) of remote-controlled devices shall be so installed that they do not trigger any unintentional movements in all transport and working positions!
- (6) Do not stay within the turning and swivelling range of the unit!
- (7) Before leaving the tractor secure the implement! Lower attachments completely! Switch off the engine and remove the ignition key!
- (8) Ensure that there are no persons within a radius of 10 meters (11 yards) of the machine/implement. **The tractor operator is responsible.**
- (9) Maintenance and repair work must **not** be carried out with the tractor running. **Remove the ignition key!**
- (10) Nobody may stand between tractor and implement without the vehicle being secured against rolling away by the parking brake and/or by chocks!
- (11) Damage must be removed immediately before working with the unit or continuing to work!
- (12) Never leave the operator's platform while driving! Only climb on or off your tractor when the hydraulics are switched off, the engine switched off, the parking brake applied and the ignition key removed.
- (13) Only put the machine into operation when all guards are fitted and functional!
- (14) The device should only be used in daylight.
- (15) If the device must be lifted for mounting, dismounting, maintenance and repair work, sufficiently dimensioned and undamaged lifting gear shall be used.
- (16) Cranes and similar lifting equipment shall have a sufficient load-bearing capacity and shall not show any damage to important supporting and safety-related equipment. Lifting equipment may only be operated by instructed or trained personnel.
- (17) Standing under suspended loads is prohibited.
- (18) **Driving the vehicle under the influence of alcohol or other intoxicating substances is absolutely forbidden at all times!**
- (19) If there is a risk that soil or similar material could be hurled when the attachments are in use, the driver's cab must be closed. Otherwise, it is essential to wear protective goggles and helmet.
- (20) The device may only be used for the specified purpose.
- (21) Damaged parking and supporting devices shall be replaced or repaired before use.

4.1.2 Road and transport travel

- (1) When using public roads, observe the respective regulations.
- (2) Riding on the implement is not permitted!
- (3) Do not exceed permissible axle loads and total weights!
- (4) Observe permissible transport dimensions! In case of excess width special permission required.
- (5) Check and fit transport equipment - e.g. lighting, warning devices and possibly protective devices!
- (6) Bring the implement to the prescribed condition for road travel and lock it in accordance with the regulations!
- (7) Never leave the driver's platform while driving!
- (8) Handling, steering and braking ability are influenced by mounted or trailed implements and ballast weights! Therefore, ensure sufficient steering and braking power!
- (9) When driving on uneven ground and in bends, take into account the wide outreach and/or the flywheel mass of the machine! Danger of tipping over!
- (10) The weight on the front axle shall not be less than 20 % of the empty weight of the vehicle.
- (11) Attached devices may restrict the field of view. Observe the respective regulations.
- (12) The horizontal distance between the front attachment part furthest forward and the center of the steering wheel must not exceed 3.5 m (11.5')!
- (13) Lighting devices of the tractor concealed by attachments must be repeated!

4.1.3 Maintenance and repair

- (1) Before carrying out maintenance and repair work on the lifted device or unit, always secure it mechanically with suitable support elements! Switch off the engine and remove the ignition key!
- (2) Check nuts and screws regularly for tightness and retighten if necessary. First check after approx. 5 operating hours, then after each use.
- (3) Spare parts must meet the technical requirements specified by the device manufacturer! This is only given by original spare parts!
- (4) Use only the specified resources. Dispose of replaced resources properly!
- (5) Splashing oil can cause injury and pollution of the environment. Wear safety goggles and protective clothing and use appropriate collection containers!

4.1.4 Information on noise

The noise level at the operator's ear may be 85 dB(A) or more. Hearing protection must be worn when the daily noise exposure level exceeds 85 dB(A) at the driver's seat.

4.2 Hydraulic system, lubricant



Attention:

- The hoses for the hydraulic cylinders must be replaced at least every five years.



Note:

- If the machine/mounted implement is operated via the tractor's hydraulics, check before commissioning whether the oil from the machine in the hydraulic circuit may enter the tractor's hydraulic circuit.
- An inadmissible mixing of different oils can lead to damage to the tractor! If the oils are different, replace the oil of the implement with the hydraulic oil of the tractor!
- Before introducing biological oils into the machine's system, check with CLEMENS Customer Service whether the desired oil can be used.



Attention:

- There are crushing and shearing points on externally actuated parts (e.g. hydraulic)!
- Splashing oil can cause injuries and environmental pollution!



Attention:

- Immediately take up leaked hydraulic oil with oil binding agent and place it in the waste container provided for this purpose; ventilate the room well.
- Caution: danger of slipping on greasy ground.



Attention:

- Hand protection: Use chemical resistant gloves for prolonged handling.
- Cream hands with skin protection cream.
- Avoid contact with the skin.
- Do not use solvents, thinners, white spirit, etc. for skin cleansing.
- Change soaked clothing immediately and do not put it back on until after cleaning.



Attention:

- After skin contact: Wash thoroughly with soap and water.
- After eye contact: Rinse for ten minutes under running water with the eyelid open and towards the outer corner of the eyelid. Consult an ophthalmologist.
- After ingestion: Do **not** stimulate vomiting, consult a doctor.
- After oil injection: After oil has penetrated under the skin, seek medical advice immediately.



Attention:

- Wear safety goggles!

4.3 Warning and information pictograms

The hazard and safety labels contain important information for the safe operation of the device. Observing these instructions is essential for your safety. Damaged, illegible or missing labels must be replaced immediately.



Item number:

CW002.000900

Description:

Sticker „CLEMENS“ (160 x 30)

ACHTUNG! Umlaufende und nachlaufende Werkzeuge - Abstand halten vom Schwenkbereich

ATTENTION! Rotating and running-out tools - keep distance to the swivelling range

ATTENTION! Outils rotatifs et tournant par inertie - ne pas s'approcher de la zone de pivotement

ATTENZIONE! Utensili rotanti e in decelerazione - mantenere la dovuta distanza dal campo di azione

ATENCION! Herramientas rotatorias y de marcha en inercia - guardar distancia del alcance de giro

Item number:

CW002.001400

Description:

Sticker „ATTENTION! Rotating and running-out tools“



Item number:

CW002.001500

Description:

Sticker „Direction sign“

ACHTUNG:

- Messerschrauben mit 220 Nm anziehen
- Nach 1 Std. überprüfen
- 1 x täglich auf festen Sitz kontrollieren
- „Fettfrei“ einsetzen

IMPORTANT:

- Please torque the screw knife holding to 124 ft. lbs.
- Check after 1 hour
- Check daily
- Insert free of grease

ATTENTION:

- Serrer la vis tenant la lame avec une force de 220 Nm
- Contrôler après 1 heure de travail
- Vérifier tous les jours avant la mise en oeuvre
- Insérer sans graisse

Item number:

CW002.002400

Description:

Sticker „Blade share screw“


Item number :

CW002.002900

Description :

Sticker „Warning of a danger point “


Item number:

CW002.003600

Description:

Sticker „Danger from parts being flung away when the engine is running! Keep safety distance“


Item number:

CW002.004600

Description:

Sticker „Max. oil quantity 30l/min (8 gpm)“


Item number:

CW002.008400

Description:

Sticker „Only touch machine parts when they have come to a complete standstill.“

5 First installation

5.1 Before first commissioning

Read these operating instructions carefully and familiarize yourself with the operation of the RADIUS SL PLUS and the front-mounted tools.

Before using the device, carry out a visual inspection of all parts.

5.2 Hydraulic installation

Check that the hydraulic connections fit your tractor. There are two hoses leading to the RADIUS SL PLUS as pressure/return lines which must not be confused. RADIUS one-sided: Pressure hose nominal size 8 mm (0.3") and return hose nominal size 13 mm (0.5").

RADIUS two-sided: from flow divider to tractor pressure hose nominal size 10 mm (0.4") and return hose nominal size 16 mm (0.6").



Attention:

- As soon as the oil supply is switched on, the RADIUS blade share moves outwards. This is particularly important when the unit is lifted, as it may cause injury. The unit should only be switched on at the place of use, please keep your distance!

5.2.1 Hose installation

The hydraulic hoses are connected according to Figure 8 and Figure 9. "D" means pressure inlet, "T" means tank and "Z" connection to the cylinder.

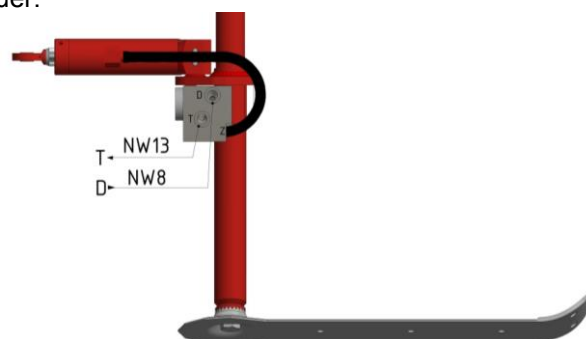


Figure 8 Hose connections on the basic unit

Figure 8: Here we show a right-hand machine without override valve.

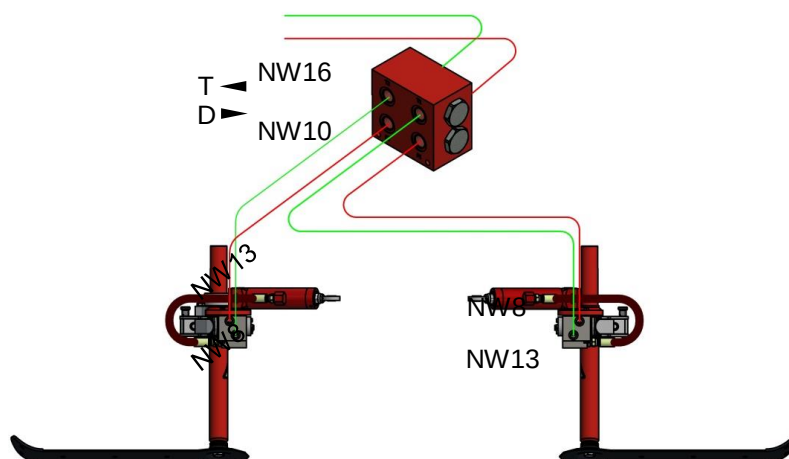


Figure 9 Hose installation RADIUS 2-sided

Figure 9 shows the connection scheme in case of double-sided equipment without override valve, but with flow divider and return oil-manifold. For further hose and attachment variants, please refer to the hosing diagrams in the spare parts list!

The indicated hose diameters (NW) should be respected. The manufacturer is not responsible for improper connections and such that are not correctly made. Furthermore, he is not responsible for break downs on the tractor due to leakage and oil overheating. The oil quantities indicated in section 6.2.1 must strictly be adhered to. The return flow hose bears only a pressure of 2 bar (29 psi). The operator must make sure that the tractor's hydraulic system is sufficient respectively that there is a recooling of the hydraulic oil.

6 Commissioning

6.1 Road and transport travel

Please observe the safety instructions in these operating instructions.

For road travel, the machine/attachment is set so that its space consumption is minimal. Further settings must be made in such a way that road traffic is not obstructed. The traffic regulations must be observed.

When driving on the road, the machine/attachment must be switched off.

In order to avoid traffic obstructions, all attachments and working implements as well as the tractor should be freed from larger impurities which could come loose during road travel.

6.2 Operating and adjusting the machine



Attention:

- When leaving the tractor for mounting, dismounting and making adjustments always switch off the drive and engine.
- Remove ignition key!
- Secure the tractor and machine against unintentional movements (e.g. rolling away, lowering, etc.).
- Observe the relevant accident prevention regulations and all other information given in the operating instructions!
- When attaching or removing implements to the tractor do not step between tractor and implement!



6.2.1 General indications

The swivelling range of the RADIUS blade share is infinitely variable between 0 and 90 degrees.

The blade share with sensor rod is available in sizes 370 mm (14.5"), 500 mm (20") and 620 mm (24").

The driving speed should be 4 - 10 km/h (2.5 - 6.2 mph) depending on soil conditions and culture.

The RADIUS units are available with electromagnetic manual control with pressure relief valve (optional for one-sided manual control). This enables to adjust the pressure of the blade share from 0-180 bar (0 – 2611 psi), depending on the soil conditions. When the manual control is actuated, the system is depressurized and the RADIUS blade share pivots in.

The RADIUS operates via a **single-acting** hydraulic valve.

- required oil quantity for one-sided operation: 6 – 10 l/min (1.5 – 2.6 gpm)
- required oil quantity for two-sided operation: (3.0 – 5.2 gpm) (flow divider is necessary)

The return flow of the oil should always be guided pressureless (best by means of 15 mm (0.6") pipe diameter) back into the tank. It must be ensured that the oil is delivered into the tank below the oil level (see Figure 10). The return hose should have at least nominal diameter 13 mm (0.5") for one-sided operation and at least nominal diameter 16 mm (0.63") for two-sided operation from the collective return.

Ensure that the oil is filtered at one point in the circuit. It is advisable to do this in the suction line so that there is no backflow in the return line (see Figure 10).

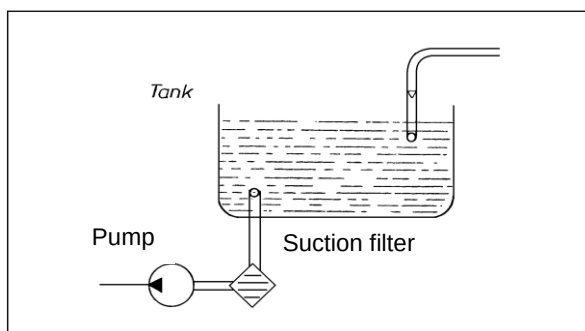


Figure 10 Return into the tank



Attention:

- As soon as the oil supply is switched on, the RADIUS blade share moves outwards. This is particularly important when the unit is lifted, as it may cause injury. The unit should only be switched on at the place of use, please keep your distance!

6.2.2 De-aeration

- The units are vented with the oil flow is switched on. All valve levers connected to the RADIUS units should be placed in the operating position for some time. Move the sensor rod and thus also the device by hand. Now the system deaerates automatically.
- After the hydraulic system has been vented and filled with the hydraulic oil, it is necessary to check the oil level of the tractor's hydraulic system and, if necessary, top up with oil.

6.2.3 Adjustment - setting at the factory

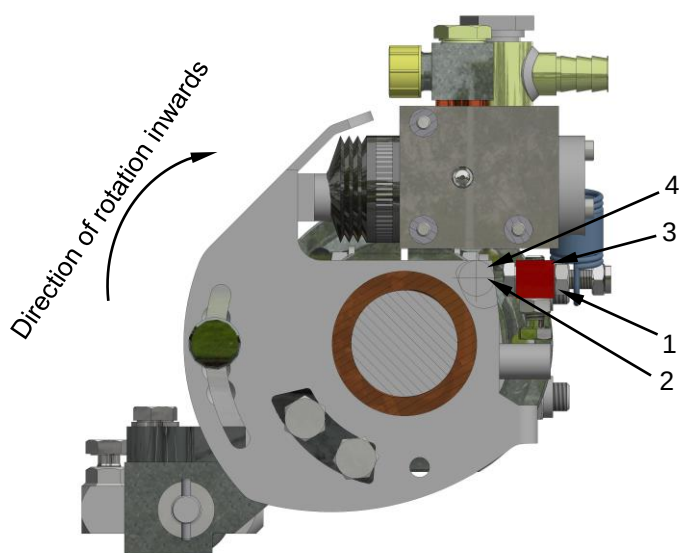


Figure 11 Sensor rod end stop inwards

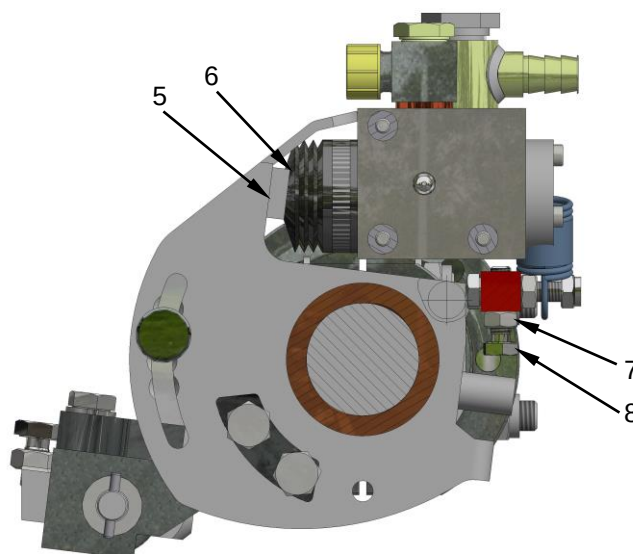


Figure 12 Sensor rod end stop outwards

The devices are precisely adjusted and tested at the factory. If the setting should have changed in the course of time, the device must be reset as follows:

6.2.3.1 Adjustment without hydraulic pressure to the unit

a) Sensor rod end stop inwards (Figure 11):

The purpose of this setting is to prevent the valve piston from being pressed in too deeply, thereby damaging the valve bottom.

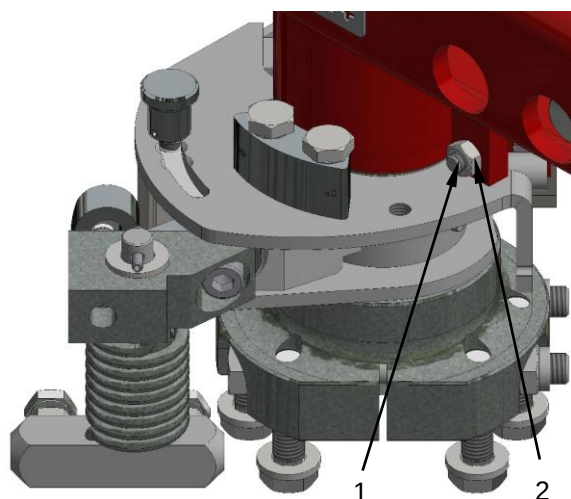
Loosen the counternut (item 1) and turn the screw (item 2) with its head towards the support (item 3); if you now press the sensor rod unit inwards, the end stop (item 4) must not touch the screw head (item 2). Hold the sensor rod unit pressed in firmly and turn the screw (item 2) in the direction of the end stop (item 4). When the head of the screw (item 2) touches the end stop (item 4), turn it another half turn. This ensures that the piston of the valve does not touch the valve bottom. Tighten the counternut (item 1).

b) Sensor rod end stop outwards (Figure 12):

This setting is used to position the sensor unit so that the pressure section (item 5) just comes into contact with the valve piston (item 6) in the rest position of the device. Loosen the counternut (item 7) and turn the screw (item 8) inwards so that there is play between item 5 and item 6. Check whether the valve piston (item 6) is smooth-running and fully extended. Now turn the screw (item 8) back so that the play between item 5 and item 6 is just eliminated. Tighten the counternut (item 7).

6.2.3.2 Adjustment with hydraulic pressure to the unit (stroke limitation)

Move the RADIUS blade share to the working position. In this position, the blade share must be able to move forward by 5 mm (1/5") if you press forward from the rear at the outer end. This play is necessary to keep some distance between the piston rod of the cylinder and the cylinder bushing.

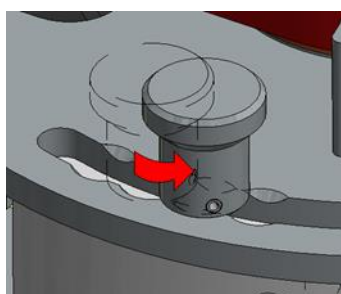


If this clearance is not present, adjust it using the set screw (Figure 13, item 1) located in the stop of the bearing housing. First loosen the counternut (Figure 13, item 2) and then adjust the setscrew so that there is a clearance of 5 mm. Then retighten the counternut (item 2).

Figure 13 Adjustment with hydraulic pressure to the unit

6.2.4 Adjustments – tool change – add-on tools

6.2.4.1 Adjustment of the sensor rod



The setting of the sensor rod is simple and fast: Lift the button on the sensor unit slightly and then move the sensor rod forwards or backwards in the desired direction. When driving uphill, it is advantageous to position the sensor rod slightly in front of the blade share. The same applies if the plants have grown at an angle (inclined forwards) or if the forward speed is higher than 8 km/h (5mph). The sensor rod height can be adjusted via the screw and counternut on the clamping piece.

Figure 14 Adjustment of the sensor rod

6.2.5 Working in strong weeds

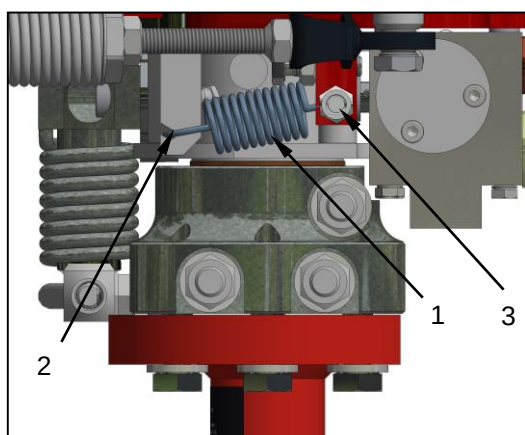


Figure 15 Tension spring for strong weeds

If the sensor rod is already pushed backwards by strong weeds, the sensitivity of the sensor unit can be reduced by inserting a spring CW009.020600 (Figure 15, item 1). Place the spring between the hook (item 2) and the adjusting screw (item 3).

6.2.6 Changing the blade share

If the RADIUS blade shares are worn out, they should be replaced in good time. To do this, loosen the screw (Figure 16, item 1) from the RADIUS shaft and clean the matching surface (serrated disc Figure 16, item 2). Place the new blade share (Figure 16, item 3) on the serrated disc and tighten the screw with washer (Figure 16, item 4) firmly. (**Tightening torque 190 Nm**)

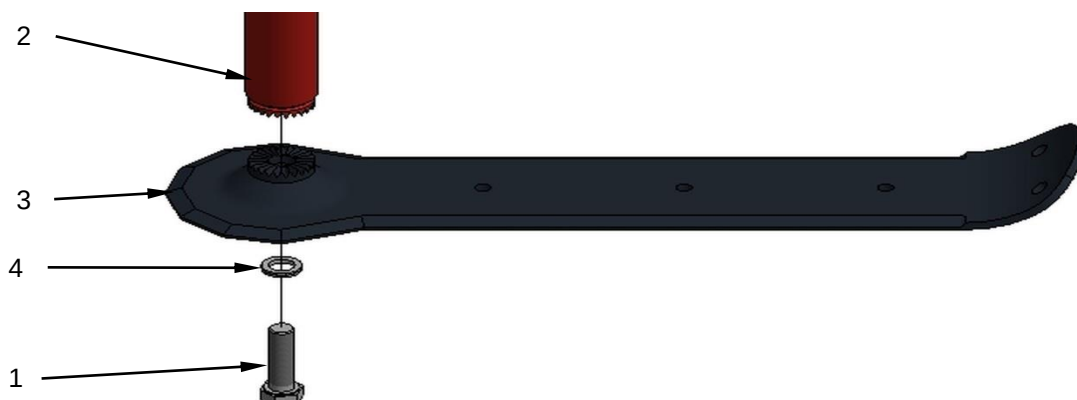


Figure 16 Changing the blade share

6.2.7 Front engaging tools for RADIUS SL PLUS

As a general rule, the RADIUS units should only be operated with front engaging tools (see chapter 3.3). These tools should generally run 20 mm (0.8") deeper than the RADIUS blade share in order to protect the shaft from stones etc. (Figure 3)

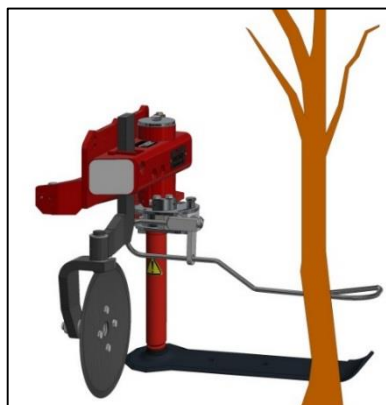


Figure 17 RADIUS with oscillating disc colter

CLEMENS offers various front tools for a large variety of soil conditions. The **grubber share**, for example, is excellently suited to ripping the soil thoroughly and deeply. In greened plantations, either the oscillating disc colter (Figure 17) or the disc plow is used.

The **oscillating disc colter** cuts a clean edge on the vegetation. The **disc plow**, on the other hand, can also be adjusted for slightly hilling up or plowing back. For stronger hilling up and ploughing back work CLEMENS offers the **clearing body LW1**.

6.2.8 Add-on tool: Driven Disks

The Driven Disks loosen the soil around the plant stems and transport it away from them. The resulting deepening leads the surface water and nutrients faster to the roots. Weeds and vegetation around the trunk and in the vine row are additionally disturbed.

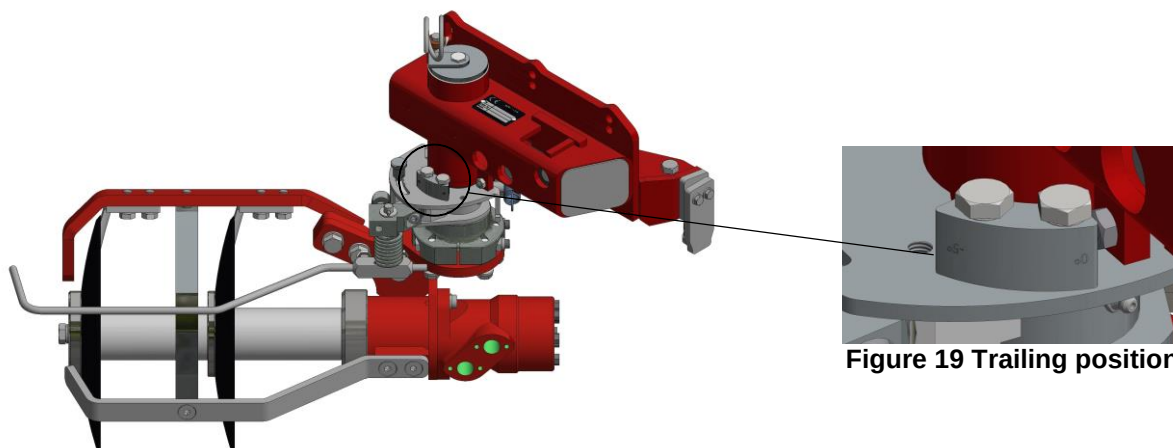


Figure 19 Trailing position

Figure 18 Driven Disks

In general, the driven discs are operated in the trailing position (see section 6.2.11, Drawing cut (trailing position)) of the RADIUS SL PLUS. For this purpose, the control unit has to be adjusted by one position forward. (see section 6.2.4.1, Adjustment of the sensor rod). The preload force of the spring must also be increased (see section 6.2.12).

The disk unit can be inclined to lower the second disc relatively to the first. This serves to penetrate deeper into the ground, to raise the motor to protect it in the presence of large stones, or to facilitate the work of the first disc and to retrieve the machine on heavy soils.



Figure 20 Direction of rotation of the disks



**Under no circumstances may the rotating disks be gripped.
There is a risk of cutting edges!**

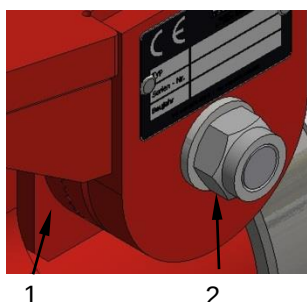


Figure 21 Inclination angle

The angle of inclination and thus the working depth is adjusted by means of the fine serrated disk (Figure 21, item 1) by loosening the screw connection (item 2).

For the operation of the Driven Disks, an additional single-acting hydraulic connection (approx. 20 liters/minute (5 gal/min) = single-sided/double-sided operation, connected in series) and an unpressurised return connection are required (suitable sensor rod, hydraulic installation see chapter 10 Spare parts list and optional parts).

6.2.9 Add-on tool: Rotary Cultivator

The Rotary Cultivator is used either in combination with the 500 mm blade share (Figure 22) or solo (Figure 23) to loosen the soil and disturb the greenery around the trunk and along the vine row. Optionally, the 620 mm blade share can be used for the Rotary Cultivator in conjunction with a mounting extension. (Figure 24).

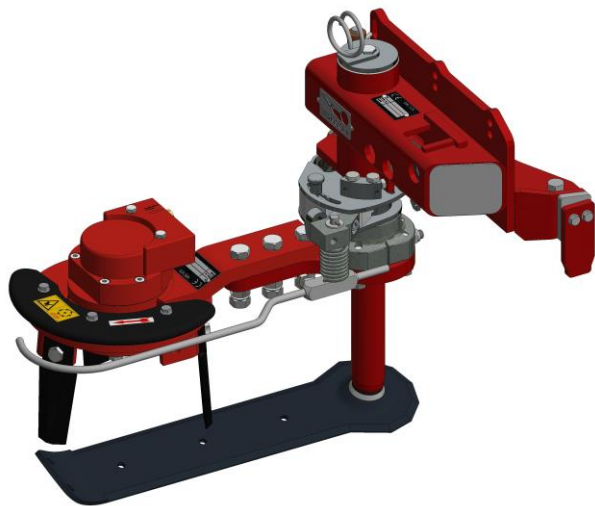


Figure 22 Rotary Cultivator with 500 mm blade share

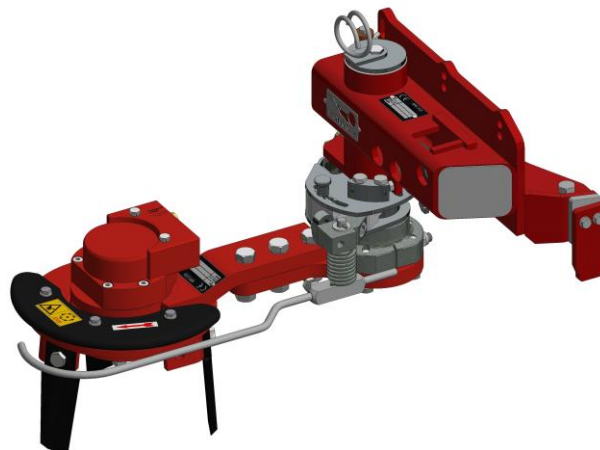


Figure 23 Rotary Cultivator solo

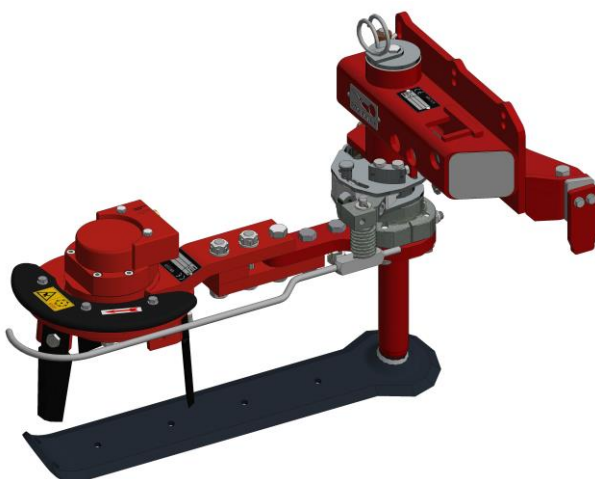


Figure 24 Rotary Cultivator with 620 mm blade share and mounting extension



Figure 25 Direction of rotation Rotary Cultivator

Standard direction of rotation right-hand attachment: clockwise! (Figure 25)

Standard direction of rotation left-hand attachment: counter-clockwise!



Under no circumstances may the rotating cultivator be gripped. Damaged tines must be replaced immediately.

For the operation of the tine rotor you need an additional single-acting hydraulic connection (max. 35 liters/minute (9 gal / min)) and a pressure-free return connection (suitable sensor rod, hydraulic installation see chapter 10 Spare parts list and optional parts).



Note:

For the transport of large quantities of soil, the direction of rotation of the rotor can be changed using the conversion kit Rotary Cultivator Reverse CA895.405000.

6.2.10 Add-on tool: Mower

The task of the mulcher is the rapid and precise care of the even greenery around the trunk and along the vine row. Two fast rotating blades trim the growth and keep trellis clean without destroying the turf.

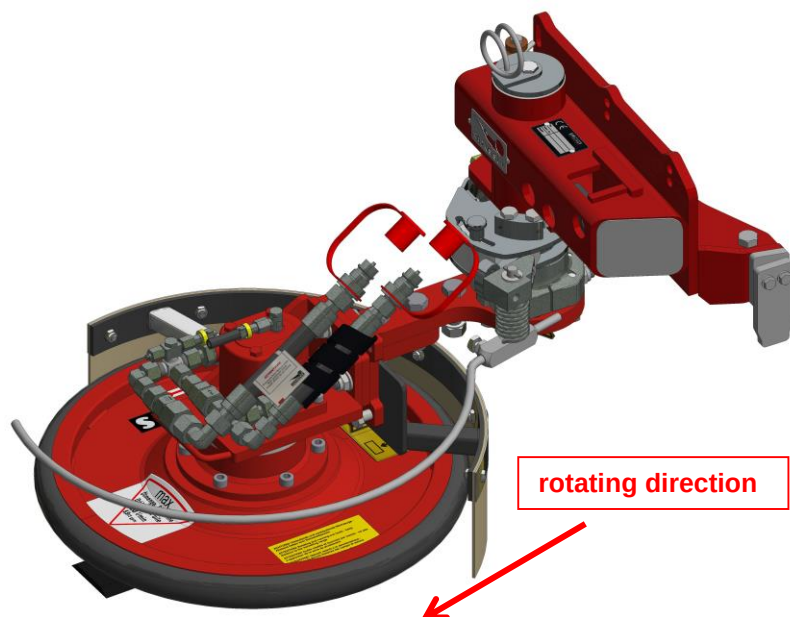
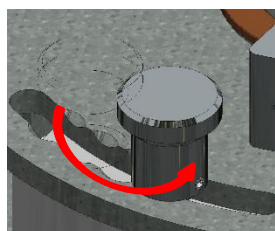


Figure 26 Rotating direction of the mower (right mounting side)

The direction of rotation of the mower for the right-hand attachment side is clockwise (see Figure 26). When mounted on the left-hand side, the direction of rotation is counter-clockwise.

If necessary, the direction of rotation can be reversed by the specialist dealer. For this purpose, the arrangement of the motor supply and return lines is exchanged.



Important:

For correct scanning of the obstacle, the control unit must be moved to the **foremost** setting position. (Figure 27)

Figure 27 Foremost setting position

Damaged blades or fasteners are to be replaced immediately.



During the operation of the mower, no other persons may be allowed within a radius of 30 m (100 ft). Under no circumstances may the rotating mower be gripped.



Observe the general accident prevention regulations for handling mowing devices and mowing work!



The mower must only be operated in conjunction with intact stone impact protection.

In addition to a single-acting hydraulic connection (approx. 20 liters / minute (5 gal / min)), a pressure-free return is required (suitable sensor rod, hydraulic installation see chapter 10: Spare parts list and optional parts).

6.2.11 Drawing cut (trailing position)

With the RADIUS SL PLUS it is possible to limit the forward rotation of the share or the tools to 90 °, 85 °, 45 ° and 40 °. When working with the Driven Disks, the 45 ° setting is essential. With the other tools and shares it is possible to work in the four different positions.

When using the blade share with no driven auxiliary tool, the 45 ° setting is used to achieve a better earth transport due to a higher transit speed compared to the 90 ° setting. With the clearing share (CW653.001400 right and CW653.001500 left) mounted at the end of the blade, at 45 ° an earth transport from the undervine area to the middle of the row similar to working with a ploughshare can be achieved.

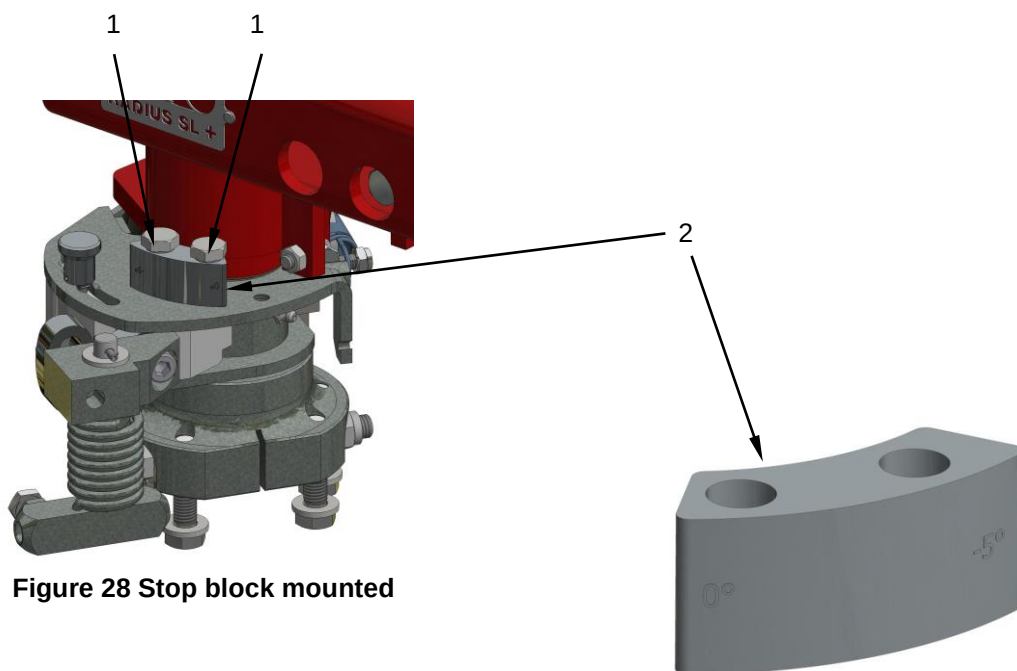


Figure 28 Stop block mounted

Figure 29 Stop block

If you want to bring the blade share in a different position, please loosen the hexagon head screws (Figure 28, item 1) and move the stop block (item 2) into the required position.

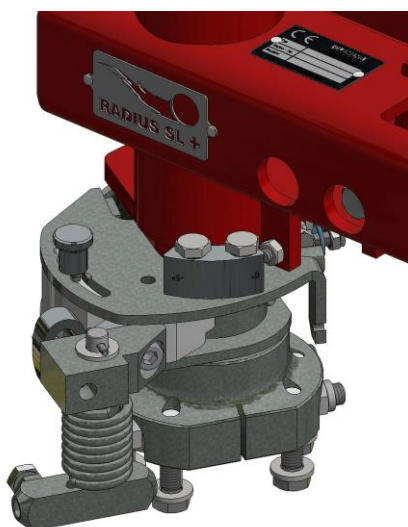


Figure 30 Stop block in 45° setting

6.2.12 Adjusting the spring tension

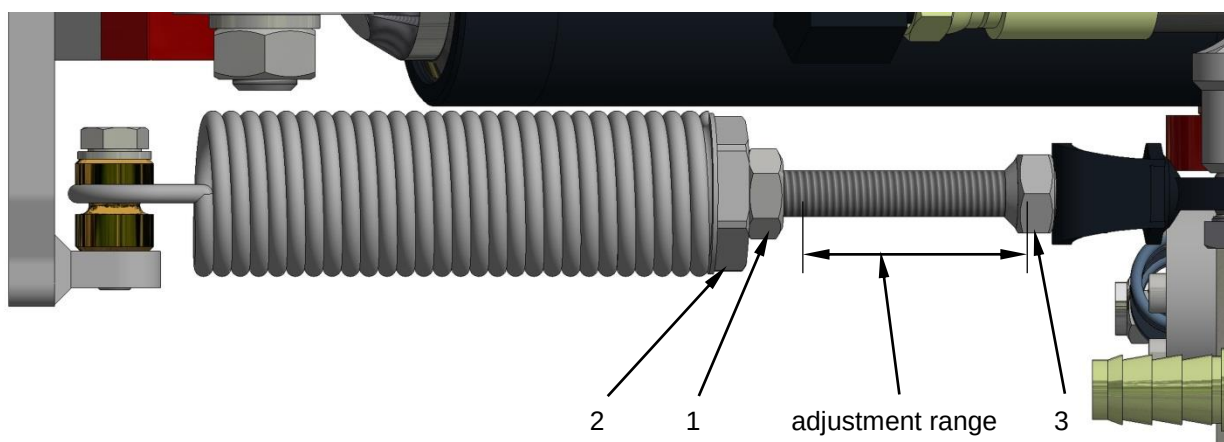


Figure 31 Adjusting the spring tension

For heavy add-on tools, e.g. the Driven Disks or the Rotary Cultivator, the RADIUS SL PLUS is equipped with an additional retracting spring, which supports the rapid evasion of trunks, poles and piles.

For the adjustment process, first loosen the lock nut item 1. **Ensure that the spring retainer item 2 is secured against twisting during the entire process.** Now the pretensioning path and thus the spring preload can be adjusted by means of the adjusting screw item 3. The desired pretensioning path is fixed by tightening the lock nut item 1.

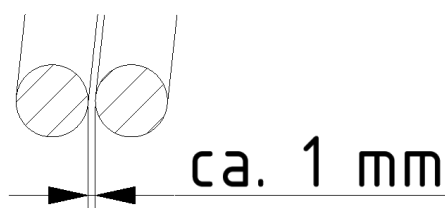


Figure 32 Lowest preload

The spring force to be adjusted must be adapted to the conditions on site and to the add-on tool used. The lowest possible preload of the spring results when the piston rod of the working cylinder is completely retracted and the spring windings have a spacing of approximately 1 mm from one another. (Figure 32). The spring must always be preloaded so that it cannot slide out of the suspension eye.

6.3 Dismounting from the tractor



Attention:

- When leaving the tractor for mounting, dismounting and making adjustments always switch off the drive and engine.
- Remove ignition key!
- Secure the tractor and machine against unintentional movements (e.g. rolling away, lowering, etc.).
- Observe the relevant accident prevention regulations and all other information given in the operating instructions!
- When attaching or removing implements to the tractor do not step between tractor and implement!



The machine/implement is designed for permanent attachment to the tractor.

If, however, it should be necessary to dismount it, this process must take place on a dry, level and firm or load-bearing surface. Ensure that the implement is secured against toppling over. Before starting to dismount, make sure that there are no persons under the RADIUS SL PLUS or in its immediate vicinity. Observe the accident prevention regulations.

6.3.1 Shutting down the machine/implement

When the unit is taken out of operation (end of the season, installation of another unit), complete cleaning must be carried out. Remove all connections from the tractor. Secure the implement against any form of damage (tipping over, etc.).

The storage location should be protected from solar radiation and other weather influences.

6.3.2 Lifting the machine with belts and chains



Attention:

- Always switch off the drive and engine when leaving the tractor for mounting, dismounting or making adjustments.
- Remove ignition key!
- Secure the tractor and machine against unintentional movements (e.g. rolling away, lowering, etc.).
- Observe the relevant accident prevention regulations and all other information given in the operating instructions!
- When attaching or removing implements to the tractor do not step between tractor and implement!



Always use the attachment point when lifting the machine. Remove the lateral protective cover. To lift, you can now insert a suitable belt into this opening and lead it upwards through the opening for the front tool. If the edges are sharp, use an edge protector.

Attention: The RADIUS can tip over when the screws are loosened.

Never step under suspended loads! Ensure that the hoist is sufficiently dimensioned and tested and observe the applicable accident prevention regulations when handling hoists and suspended loads!

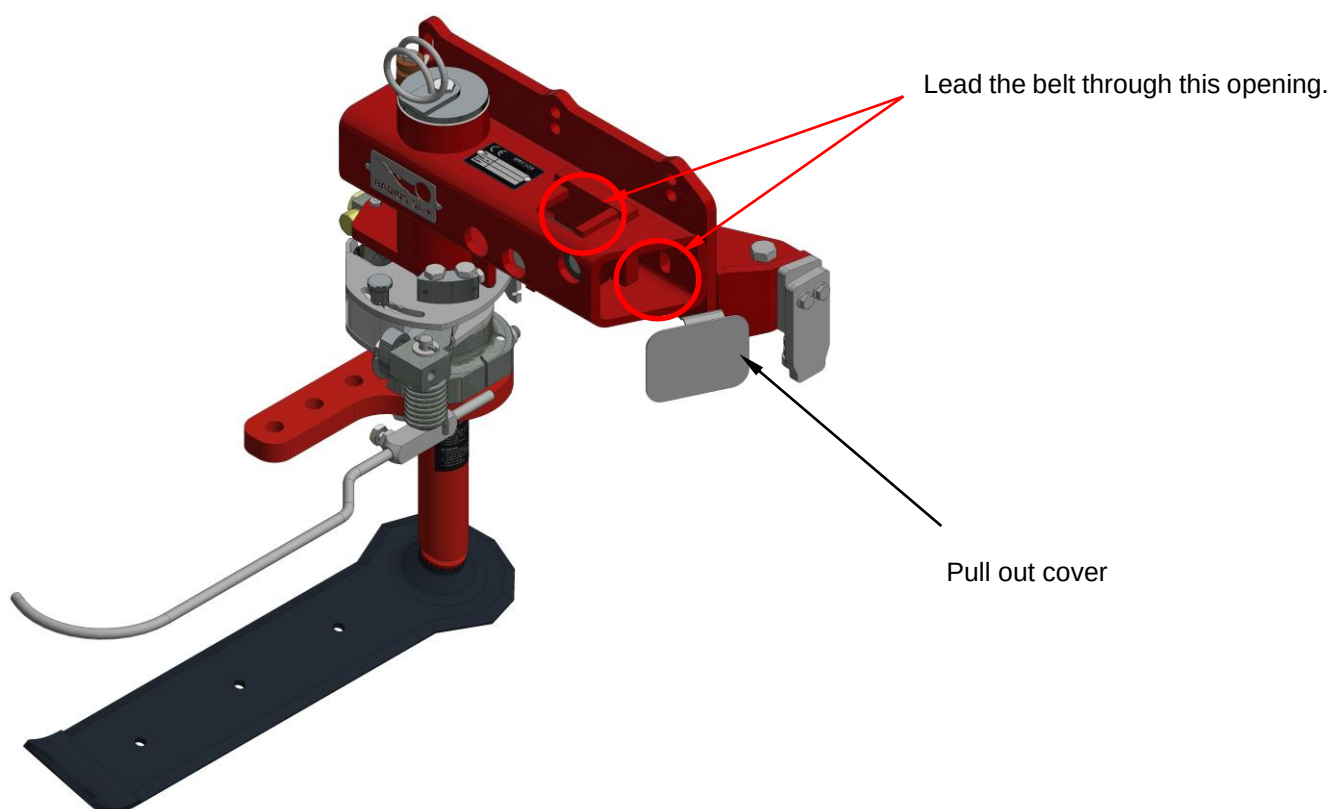


Figure 33 Attachment point

7 Maintenance

The machine/attachment is designed to require as little maintenance and care as possible. However, the following rules must be observed to ensure proper operation of the implement.

7.1 General



Attention:

- Always carry out maintenance work with the drive and motor switched off!
- Remove ignition key!
- Secure the tractor and machine against unintentional movements (e.g. rolling away, lowering, etc.).
- Observe the relevant accident prevention regulations and all other information given in the operating instructions!
- Only use original spare parts!

If the device must be lifted for mounting and dismounting as well as for maintenance and repair work, sufficiently dimensioned and undamaged hoisting gear must be used. Cranes and similar lifting equipment must have sufficient lifting capacity and must not show any damage to safety equipment. Lifting equipment may only be operated by instructed or trained personnel.

It is prohibited to stay under suspended loads.

After the first 5 hours of operation all screw connections must be checked for tightness, then every 20 hours.

When cleaning with a high-pressure cleaner, make sure that the high-pressure jet is not directed at bearing and sealing points or hydraulic connections. This can lead to damage and premature failure.

The hosing must be replaced by a specialist workshop at least every five years or if damaged.

Hydraulic and electrical components must be checked for damage and replaced if necessary.

Fractures, cracks and other significant damage to the machine/attachment must be repaired by a specialist workshop.

7.2 Hydraulic oil and oil filter

A clean hydraulic oil is indispensable for a long service life of the hydraulic components. The hydraulic oil should therefore be filtered through a filter at one point in the tractor's hydraulic system. It is also advisable to replace all the hydraulic oil at regular intervals.

7.3 Replacement of wearing parts



Attention:

- Always carry out repair and maintenance work with the drive and motor switched off!
- Remove ignition key!
- Secure the tractor and machine against unintentional movements (e.g. rolling away, lowering, etc.).
- Observe the relevant accident prevention regulations and all other information given in the operating instructions!
- Only use original spare parts!
- Maintenance and repair work may only be carried out by qualified personnel.

Information on spare parts procurement can be found in chapter 10.

7.4 Cleaning



Attention:

- Observe the safety instructions in chapter 4.
- When cleaning, never direct the high-pressure jet at bearing, guide and sealing points or hydraulic connections.
- After downtimes and cleaning work, the guideways must be lubricated.
- Damaged components and stickers must be replaced.

Before driving on the road, remove any major dirt or grease from the appliance that may become detached while driving and obstruct or endanger other road users. Cloths soiled with grease must then be stored in suitable containers until they are disposed of.

After cleaning, the lubrication points should also be lubricated. This increases the service life of your machine/implement.

7.5 Seals

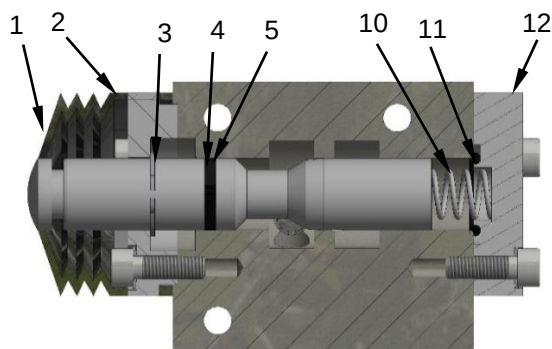
For reasons of environmental protection and occupational safety, damaged seals and leaks must be repaired immediately.



Attention:

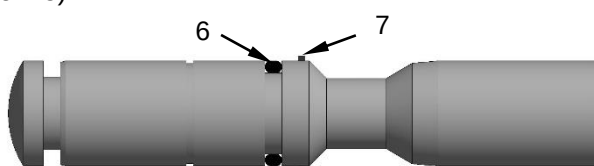
- In particular, carry out a daily visual inspection of the hydraulic cylinders/motors as well as the hydraulic connections and hydraulic hoses.
- Hydraulic oil must not escape into the environment!
- Leaking oil can ignite!

7.5.1 Replacement of control valve seal



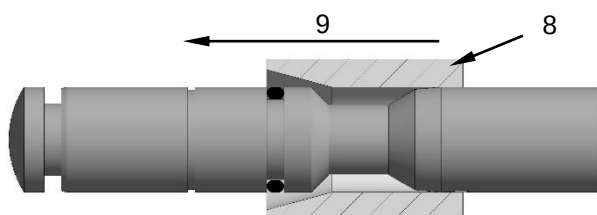
Seal replacement step 1

1. Remove item 1 and item 2 as well as the circlip ring (item 3) and the old O-ring (item 4) with sealing ring (item 5).



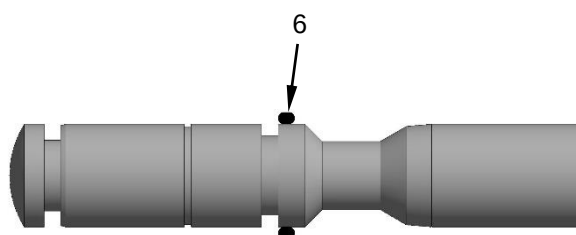
Seal replacement step 3

3. Lightly oil the new support ring item 7) (not below 20° C / 68° F) and pull it spirally over the O-ring (item 6).



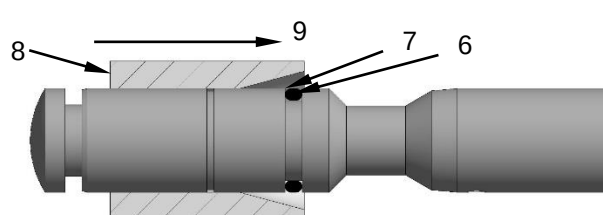
Seal replacement step 5

5. Push the bushing (item 8) in the opposite direction and push it rotating with the conical side in the direction of the arrow (item 9) onto the seal set.



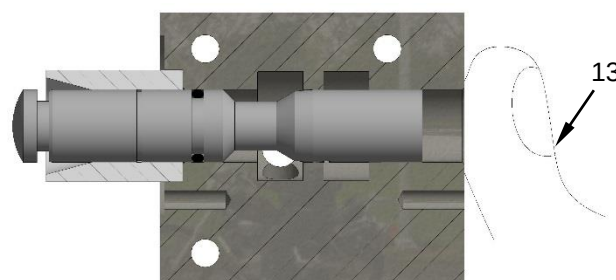
Seal replacement step 2

2. Lightly oil the new O-ring (item 6) and carefully twist it into place.



Seal replacement step 4

4. Using the mounting bushing (item 8), embed the support ring (item 7) on one side with rotation and slight pressure in the direction of the arrow (item 9).



Seal replacement step 6

6. Oil the control piston and guide it into the housing until the bushing is in contact with the recess. Slide the control piston inwards rotating until the seal set (items 6 + 7) is in the housing. Keep the end of the drill channel closed with your thumb so that the end of the piston does not protrude. Remove the bushing (item 8) (hold up the piston). Reassemble items 1, 2 and 3. Insert the pressure spring (item 10) and close the housing with items 11 and 12. When mounting the valve under the plate of the shaft unit, do not forget the washers $\varnothing 6$.

Item no.	Denomination	Quantity	Order number
	Bore seal with O-ring complete	1	CW780.012600
	consisting of:		
6	O-Ring $\varnothing 12 \times 2$	1	
7	Plastic support ring	1	
8	Mounting bushing	1	CW010.000201

Figure 34 Replacement of control valve seal

7.6 Lubrication schedule



Attention:

- Observe the safety instructions in chapter 4.
- Please use only sulphur-free lubricating grease.

The machine/implement must be lubricated regularly according to the lubrication schedule. Any large accumulations of grease which may become loose during work or transport must be removed. Cloths soiled with grease must then be stored in suitable containers until they are cleaned or disposed of.

Lubricate every 10 working hours at the points marked "X". After cleaning, the lubrication points should also be lubricated. This increases the service life of your machine/attachment.

If the sensor unit is no longer smooth-running after lubrication, too much grease has been pressed in. This can be remedied by pressing the sensor unit several times by hand.

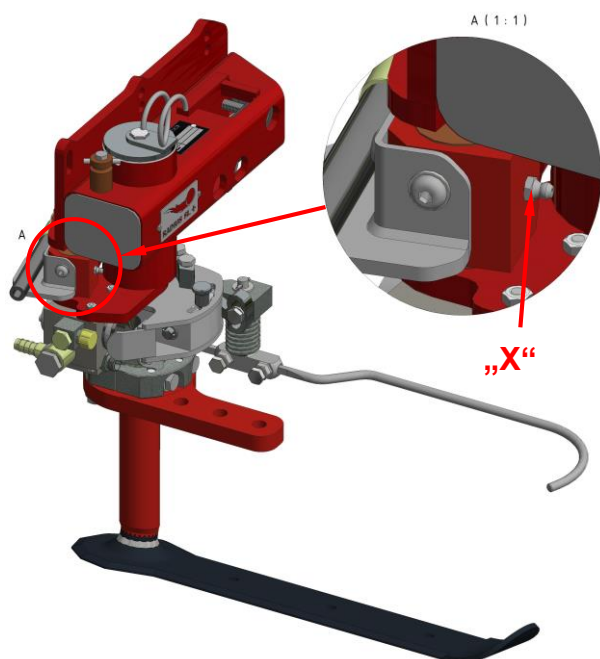


Figure 35 Lubrication schedule cylinder

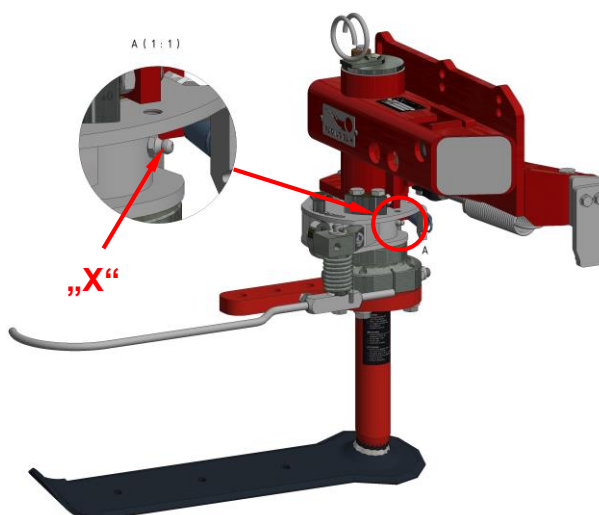


Figure 36 Lubrication schedule sensor unit

8 Possible faults and their elimination



Note:

- Troubleshooting and repair work must always be carried out by a specialist workshop.
- Observe the relevant accident prevention regulations and all other information given in the operating instructions!
- Use only original spare parts!

Possible cause	Fault correction
Abnormal oil heating	The nominal diameters of the suction, pressure and return hoses are too small.
	The oil tank (reservoir) is insufficiently dimensioned.
	The oil level in the hydraulic system of the tractor is too low.
	The oil filter is clogged.
	The necessary oil quantity is not reached.
	The setting of the pressure-relief valve of the tractor is insufficient (180 bar (2611 psi) as a minimum).

9 Workshop instructions



Note:

- Always carry out mounting, conversion, repair and maintenance work with the drive and motor switched off!
- Remove ignition key!
- Secure the tractor and machine against unintentional movements (e.g. rolling away, lowering, etc.).
- Observe the relevant accident prevention regulations and all other information given in the operating instructions!
- Only use original spare parts!

9.1 Basic setting of the machine

In the basic setting, the blade share on the RADIUS is completely retracted.

9.2 Initial installation

Installation may only be carried out by trained personnel!

The fastening screws must be tightened with the appropriate torque from the tightening torque table in section 9.5. Guideways must be greased.

Hydraulic and other components must be checked for damage and replaced if necessary.

The general safety and accident prevention regulations must be observed for all work.

9.3 First commissioning

Every user must read these operating instructions before using the machine/implement.

The initial commissioning at the customer's is accompanied by the specialist dealer.

9.4 Tightening torques

For correct disposal of the machine, please contact a specialist dealer. Under no circumstances must hazardous substances be allowed to enter the environment.

9.5 Tightening torques

The following values serve as an assembly aid. This information is without guarantee.

Tightening torques for steel screws DIN 912 / 931 / 933 / 934 Strength classes 8.8 and 10.9

Dimension	Gradient	Tightening torque (Nm)	
		Strength class 8.8	Strength class 10.9
M4	0.7	3.0	4.4
M5	0.8	5.9	8.7
M6	1.0	10	15
M8	1.25	25	36
M10	1.5	49	72
M12	1.75	85	125
M14	2.0	135	200
M16	2.0	210	310
M18	2.5	300	430
M20	2.5	425	610

Figure 37 Tightening torque table

Additional lubrication of the threads considerably changes the coefficient of friction and leads to indeterminate tightening conditions!

10 Spare parts list and optional parts

In the appendix you will find a graphic representation of the components to match the spare parts list.

Spare parts can be ordered from your specialist dealer.

Customer Service Address:

CLEMENS GmbH & Co. KG
 Rudolf-Diesel-Straße 8
 D-54516 Wittlich (Germany)
 Phone: +49 (0) 65 71 / 929 -00
 Fax: +49 (0) 65 71 / 929 -192
 E-Mail: info@clemens-online.com
 Web: www.clemens-online.com

Customer Service Address in the USA

Clemens Vineyard Equipment, Inc.
 224 N. East Street
 Woodland, CA 95776
 Phone: (530) 406-0577
 Fax: (530) 661-0451
 e-mail: thomas@clemens-america.com



Note:

Color variations from the original part are possible.



Note:

All illustrations show the right-hand version: Spare and optional parts for the **left-hand** version are shown in **blue**.



Note:

When ordering hydraulic hoses for replacement, measure length "L" (including pressed fittings) and indicate in mm. (Conversion aid: 1" = 25.4 mm)

10.1 Basic body

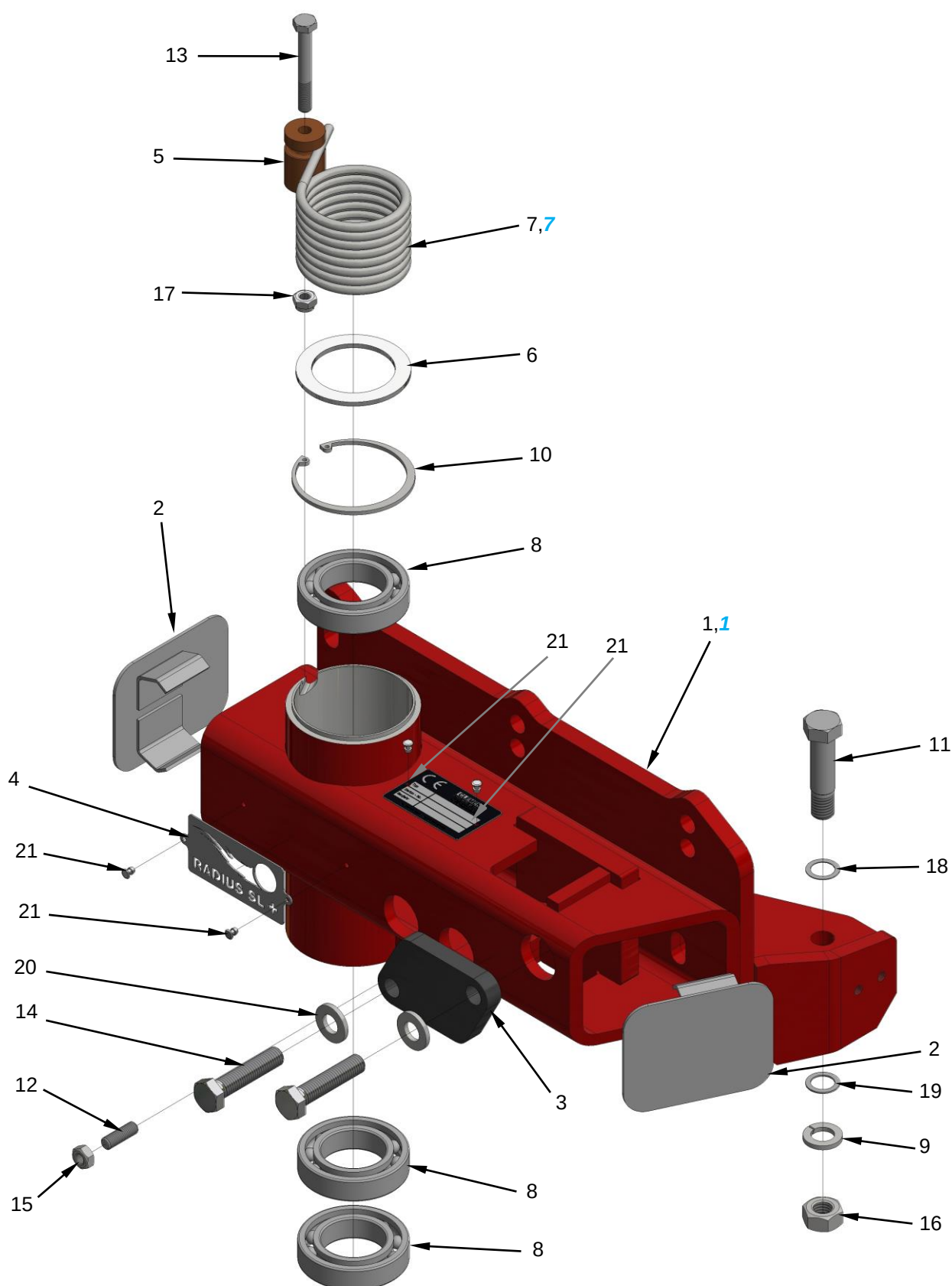
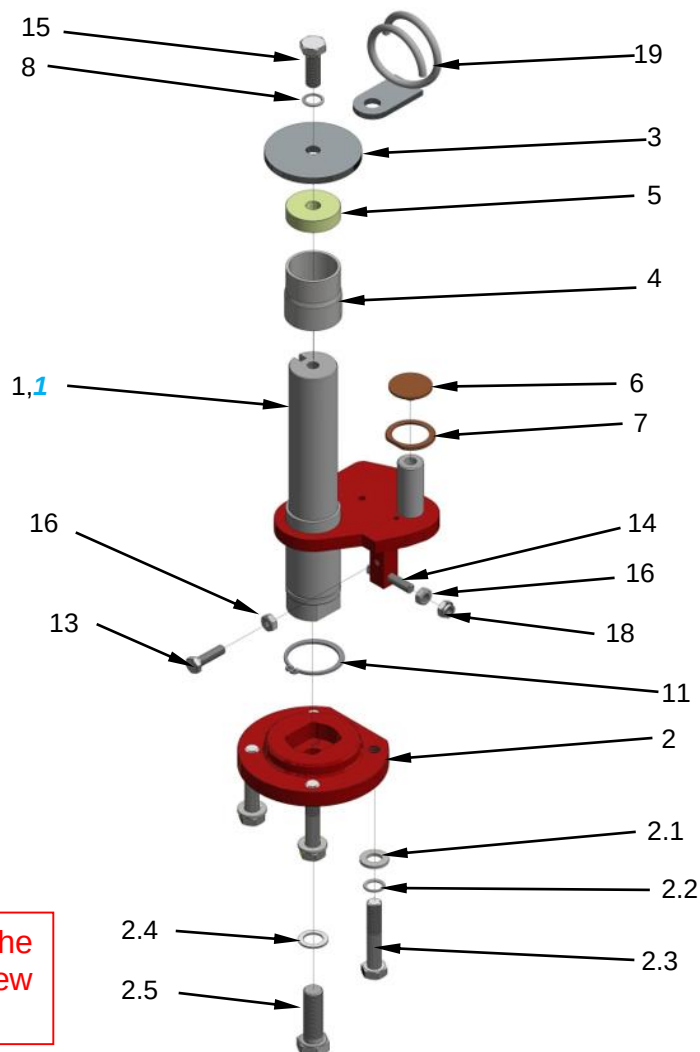


Figure 38 Spare parts Basic body

Item no.	Specification	Remark	Quantity	Order no.
1	Bracket rhs		1	CL860.011000
1	Bracket lhs		1	CL860.111000
2	Cover		2	CL860.010100
3	Clamping plate		1	CL856.010002
4	Company logo CLEMENS RADIUS SL		1	CL861.010012
5	Limiting bushing high		1	CL860.050002
6	Disk		1	CW007.004700
7	Leg spring high rhs		1	CW009.042100
7	Leg spring high lhs		1	CW009.042200
8	Deep groove ball bearing		3	CW540.064400
9	Spring washer		1	012714
10	Circlip ring		1	047272
11	Fitted screw		1	061014060s
12	Setscrew		1	091308025s
13	Hexagon screw		1	093108060
14	Hexagon screw		2	093312055
15	Hexagon nut		1	093408
16	Hexagon nut		1	093414
17	Hexagon nut		1	098508
18	Adjusting. washer		1	0988152105
19	Adjusting. washer		1	0988152110
20	Washer		2	144012
21	Bind rivet		4	7337030062A

10.2 Shaft unit

up to serial number: CL861.00640 (right) / CL861.10514 (left)



Tightening torque of the hexagon head screw item 2.5: 220 Nm

Figure 39 Spare parts Shaft unit

Item no.	Specification	Remark	Quantity	Order no.
1	Supporting shaft rhs	up to serial number: CL861.00640	1	CL861.020100
1	Supporting shaft lhs	up to serial number: CL861.10514	1	CL861.120100
2	Flange plate complete	incl. items no. 2.1 – 2.5	1	CL861.021000
2.1	Washer		4	012513
2.2	Lock washer		4	CW520.002900
2.3	Hexagon head screw		4	093112065
2.4	Lock washer		1	CW520.003100
2.5	Hexagon head screw		1	096116050
3	Cover disk, galv.		1	CL856.020001
4	Spacer		1	CL860.020003
5	Spacer disk		1	CL860.050004
6	Sliding disk		1	CW007.004900
7	Disk		1	CW007.005200
8	Lock washer		1	CW520.002900
11	Circlip ring		1	047145
13	Hexagon head screw		1	093308030
14	Hexagon head screw		1	093308040
15	Hexagon head screw		1	093312035
16	Hexagon nut		2	093408
18	Hexagon nut		1	098508
19	Hose guide		1	CL845.901000

10.3 Shaft unit (from 2019)

from serial number: CL861.00641 (right) / CL861.10515 (left)

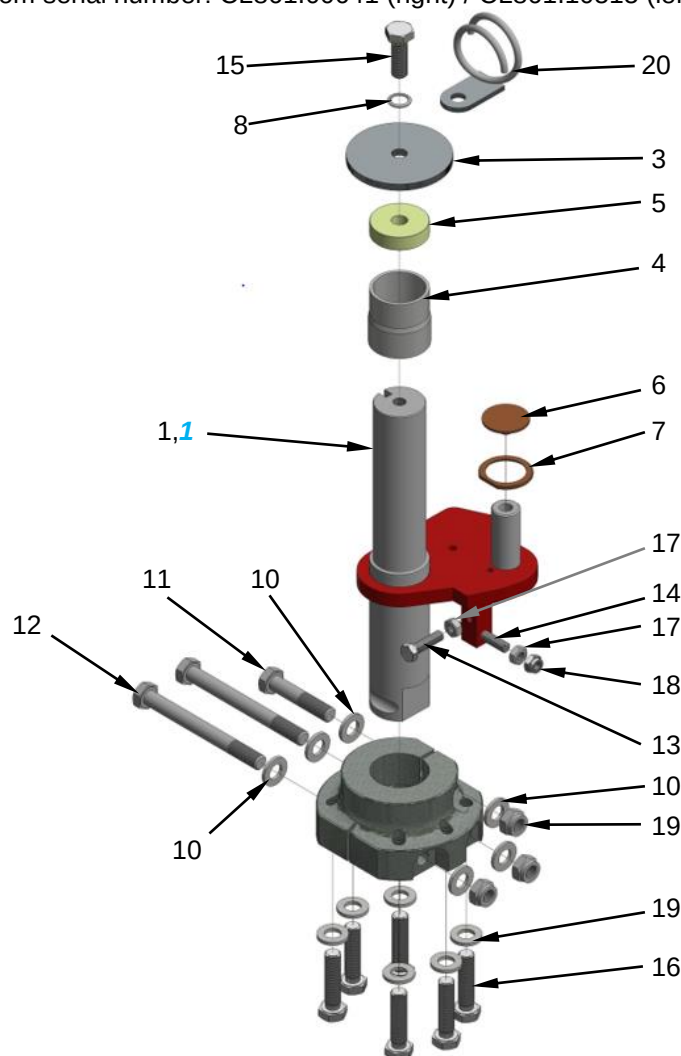


Figure 40 Spare parts Shaft unit (from 2019)

Item no.	Specification	Remark	Quantity	Order no.
	Shaft unit rhs complete	from serial number: CL861.00641		CA861.020000
	Shaft unit lhs complete	from serial number: CL861.10515		CA861.120000
1	Supporting shaft rhs		1	CA861.020100
1	Supporting shaft lhs		1	CA861.120100
2	Flange plate		1	CA861.020001
3	Cover disk		1	CL856.020001
4	Spacer		1	CL860.020003
5	Spacer disk		1	CL860.050004
6	Sliding disk		1	CW007.004900
7	Disk		1	CW007.005200
8	Lock washer		1	CW520.002900
9	Lock washer		6	CW520.004300
10	Washer		6	012513
11	Hexagon head screw		1	09311206010
12	Hexagon head screw		2	09311212010
13	Hexagon head screw		1	093308030
14	Hexagon head screw		1	093308040
15	Hexagon head screw		1	093312035
16	Hexagon head screw		6	093312050
17	Hexagon head screw		2	093408
18	Hexagon nut		1	098508
19	Hexagon nut		3	09851210
20	Hose guide, separate	not included in shaft unit complete	1	CL845.901000

10.4 Control valve

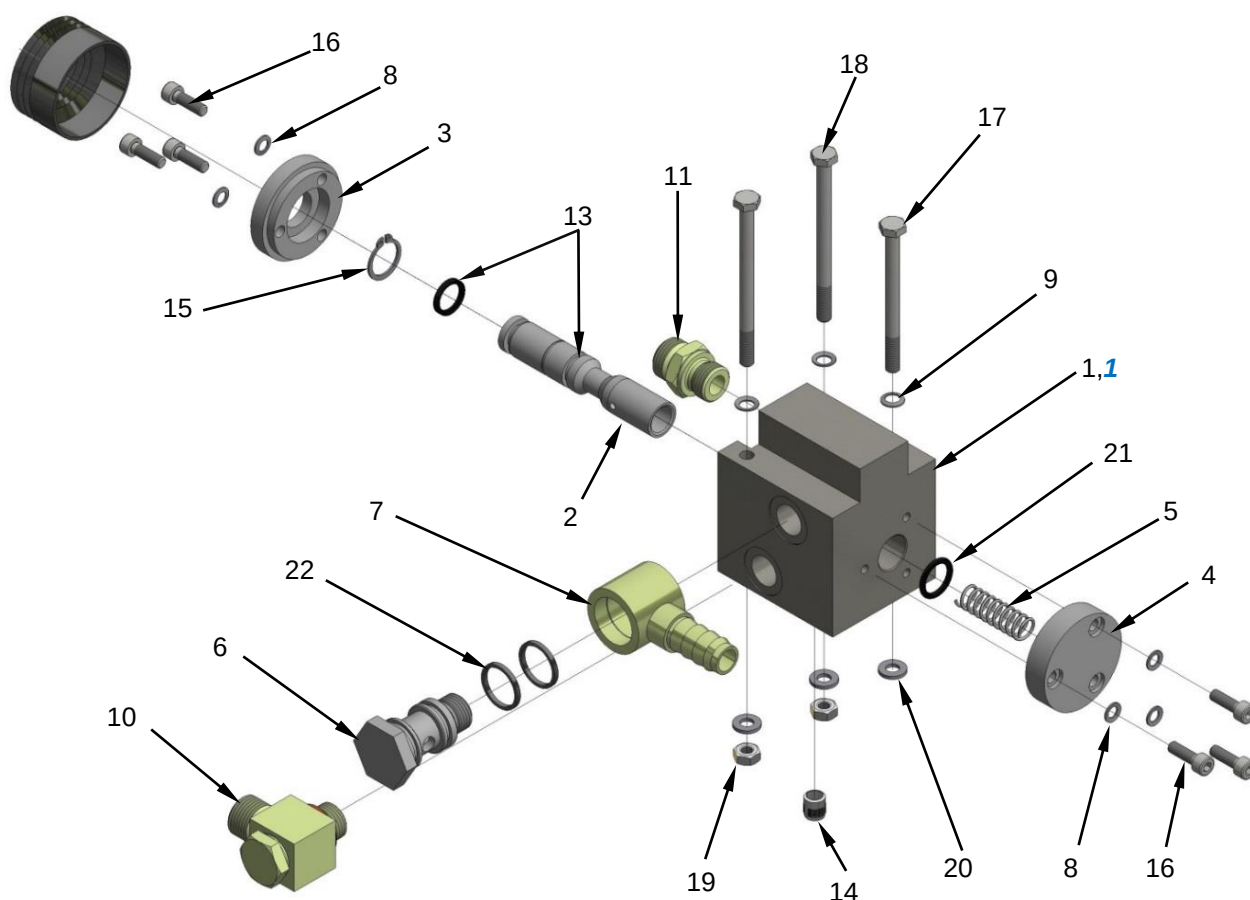


Figure 41 Spare parts Control valve

Item no.	Specification	Remark	Quantity	Order no.
	Control valve rhs complete		1	CL856.030000
	Control valve lhs complete		1	CL856.130000
1	Housing rhs		1	CL856.030001
1	Housing lhs		1	CL856.130001
2	Control piston		1	CL856.030002
3	Flange		1	CL856.030003
4	Cover		1	CL856.030004
5	Pressure spring		1	CW009.005300
6	Hollow screw		1	CW011.500600
7	Hose stem, return oil		1	CW011.600800
8	Lock washer		6	CW520.002500
9	Lock washer		3	CW520.002600
10	Angular connection		1	CW730.015800
11	Straight screwed socket		1	CW730.018100
12	Bellow		1	CW780.007000
13	Bore seal with O-ring Replacing this seal requires mandatory compliance with section 7.5.1 !		1	CW780.012600
14	Expander		1	CW780.050100
15	Circlip ring		1	047116s
16	Socket head cap screw		6	091205016
17	Hexagon screw		1	093106070
18	Hexagon screw		2	093106080
19	Hexagon nut		2	093406
20	Washer		3	144006
21	O-Ring		1	OR01620
22	O-Ring		2	OR01820

10.5 Control unit

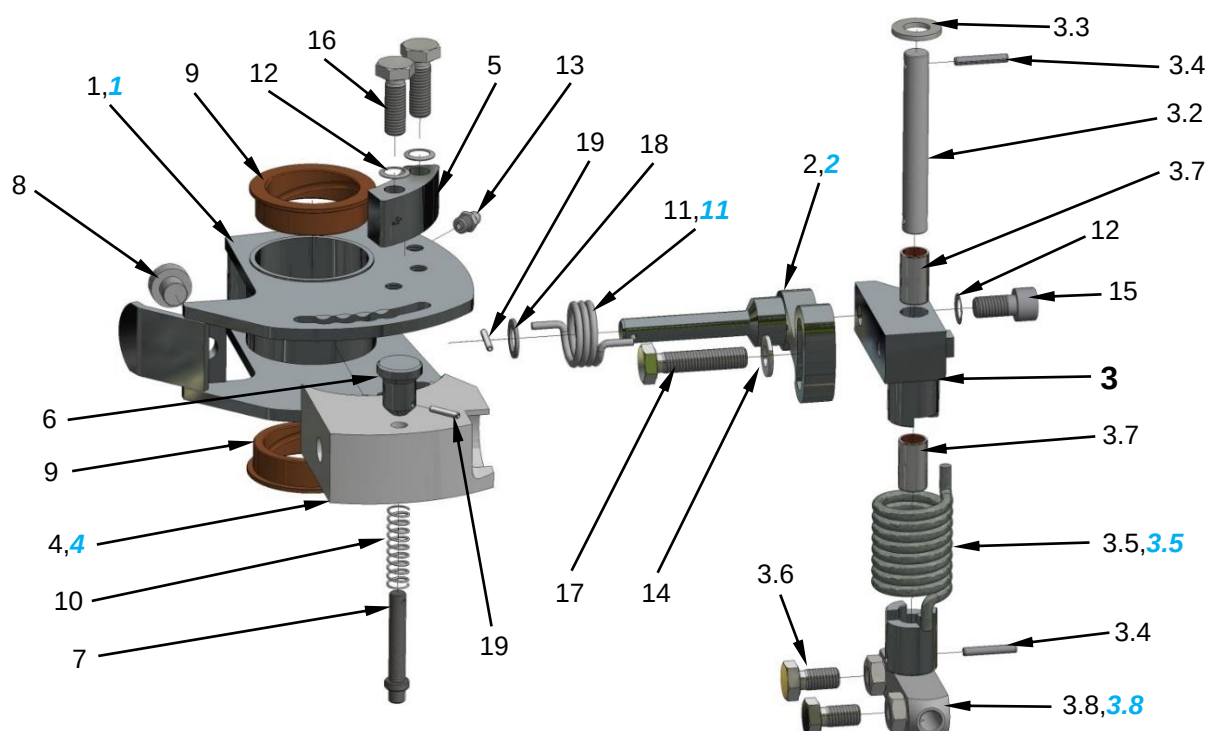


Figure 42 Spare parts Control unit

Item no.	Specification	Remark	Quantity	Order no.
1	Sensor housing rhs		1	CL860.041000
1	Sensor housing lhs		1	CL860.141000
2	Mounting pin rhs		1	CL861.042000
2	Mounting pin lhs		1	CL861.142000
3	Sensor rod-mounting pin rhs	complete incl. items 3.2 – 3.8	1	CL861.043000
3	Sensor rod-mounting pin lhs	complete incl. items 3.2 – 3.8	1	CL861.143000
3.2	Spring bolt		1	CL862.010009
3.3	Washer		1	012513
3.4	Clamping sleeve		2	148104026
3.5	Leg spring rhs		1	CW009.043000
3.5	Leg spring lhs		1	CW009.043100
3.6	Hexagon head screw		2	093310020
3.7	Slide bushing		2	CW550.010900
3.8	Sensor rod holder rhs		1	CL861.043200
3.8	Sensor rod holder lhs		1	CL861.143200
4	Sensor rod seat aluminum rhs		1	CG856.040001
4	Sensor rod seat aluminum lhs			CG856.140001
5	Stop block		1	CL860.040001
6	Centering bolt		1	CA856.040002
7	Lock bolt		1	CL856.040003
8	Pressure section		1	CL856.040005
9	Collar bushing		2	CW004.051300
10	Pressure spring		1	CW009.004000
11	Leg spring rhs		1	CW009.040100
11	Leg spring lhs		1	CW009.040200
12	Lock washer		3	CW520.002800
13	Conical lubricating nipple		1	CW570.000100
14	Washer		1	012510
15	Socket head cap screw		1	091210020
16	Hexagon head screw		2	093310030
17	Hexagon head screw		1	093310045
18	Adjusting washer		1	0988131915
19	Clamping sleeve		2	1481030162A

10.6 Swivel cylinder

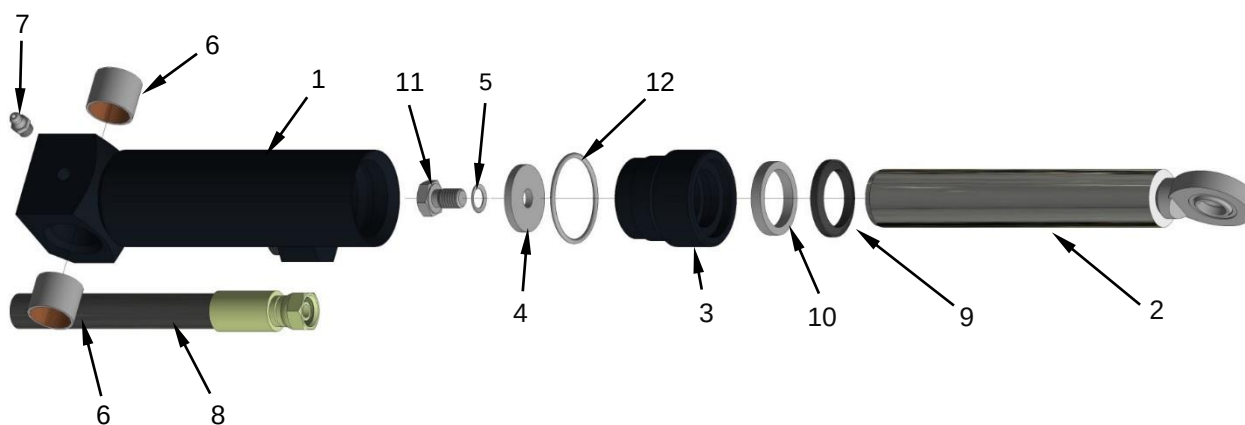


Figure 43 Spare parts Swivel cylinder

Item no.	Specification	Remark	Quantity	Order no.
	Swivel cylinder complete	Piston rod Ø 30		CA895.530000
1	Cylinder pipe		1	CL895.531000
2	Piston rod complete	Ø 30	1	CA895.531000
3	Bushing		1	CA895.530001
4	Spacer disk		2	CW007.007900
5	Lock washer		1	CW520.002800
6	Bushing		2	CW550.004800
7	Conical lubricating nipple		1	CW570.000100
8	High pressure hose with pressed fittings		1	CW700.021400
9	Piston seal		1	CW780.018100
10	Dust shield		1	CW780.015200
11	Hexagon head screw		1	093310016
12	O-Ring		1	OR04225

10.7 Spring unit

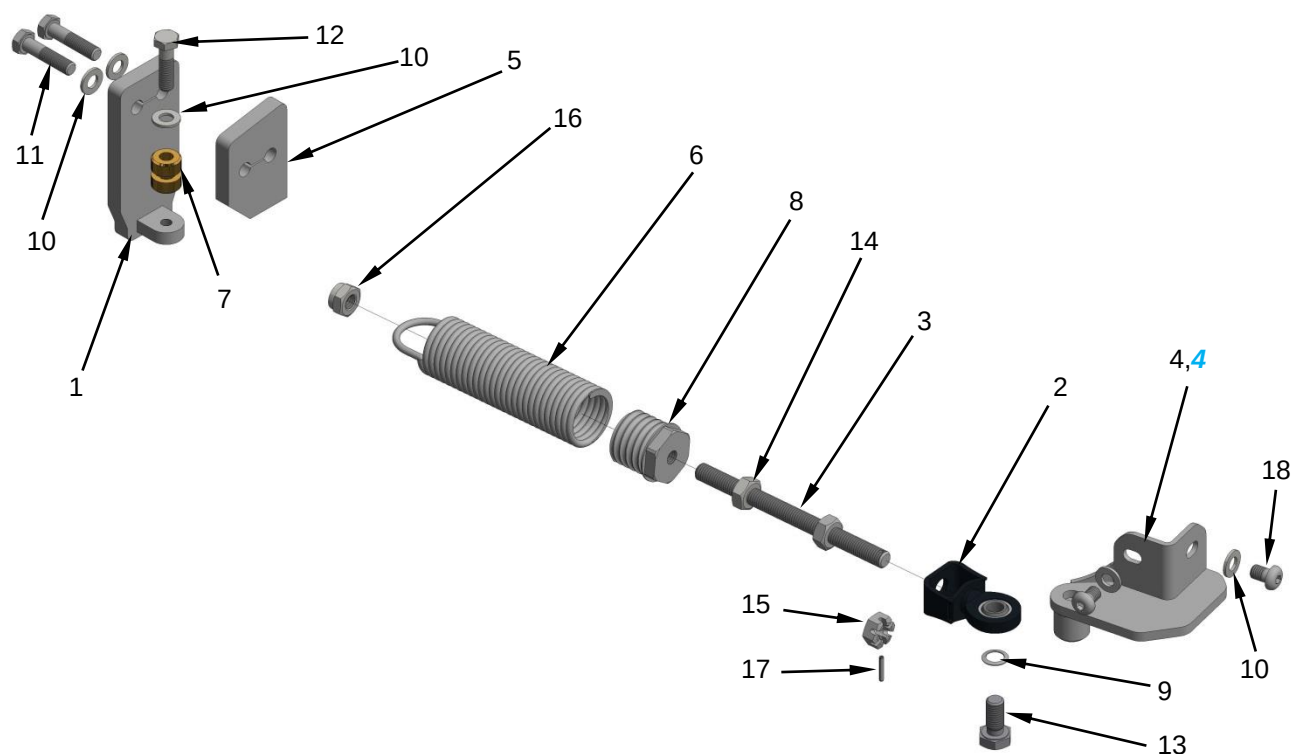


Figure 44 Spare parts Spring unit

Item no.	Specification	Remark	Quantity	Order no.
	Spring unit complete rhs		1	CL861.050000
	Spring unit complete lhs		1	CL861.150000
1	Spring support galv.		1	CL861.050100
2	Ball joint		1	CL861.050200
3	Threaded rod complete	with welded-on nut	1	CL861.050300
4	Spring mount rhs		1	CL861.050400
4	Spring mount lhs		1	CL861.150400
5	Spacer plate		1	CL861.050001
6	Tension spring		1	CL861.050003
7	Spring bushing		1	CL861.050004
8	Threaded plug		1	CL861.050005
9	Lock washer		1	CW520.002800
10	Lock washer		5	012508
11	Hexagon screw		2	093108035
12	Hexagon screw		1	093308030
13	Hexagon screw		1	093310022
14	Hexagon nut		1	093410
15	Castle nut		1	093710
16	Hexagon nut		1	098510
17	Clamping sleeve		1	148102516
18	Oval head screw		2	738008012

10.8 Blade shares with sensor rods and accessories

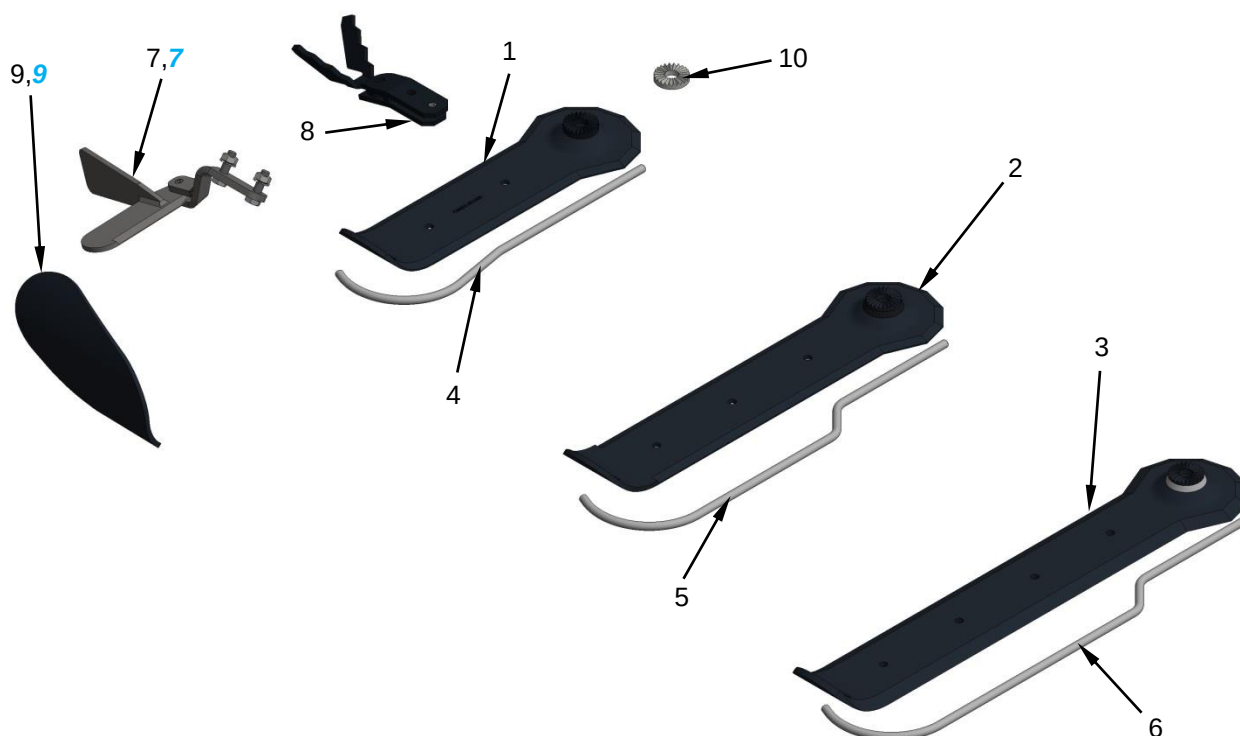


Figure 45 Blade shares with sensor rods and accessories

Item no.	Specification	Remark	Quantity	Order no.
1	Blade share 370 mm (14")		1	CA919.030000
2	Blade share 500 mm (20")		1	CA919.041000
2	<i>Blade share 500 mm (20")</i>	<i>wear-resistant coating</i>	<i>1</i>	<i>CB919.041000</i>
3	Blade share 620 mm (24")		1	CA919.061000
4	Sensor rod for blade share 370		1	CL861.000011
5	Sensor rod for blade share 500		1	CL861.000021
6	Sensor rod for blade share 620		1	CL861.000031
7	Sensing share rhs complete		1	CB917.016200
7	<i>Sensing share lhs complete</i>		<i>1</i>	<i>CB917.116200</i>
8	Swiveling clod breaker	number depends on share length	2/3/4	CL919.330000
9	Clearing share rhs complete		1	CW653.001400
9	<i>Clearing share lhs complete</i>		<i>1</i>	<i>CW653.001500</i>
10	Serrated disk	loose for welding on	1	CW902.000900
For fastening the blade share to the shaft:				
11	Screw locking disc	not shown	1	CW520.007800
12	Hexagon head screw	not shown	1	096116050

10.9 Working shafts and supports for add-on tools

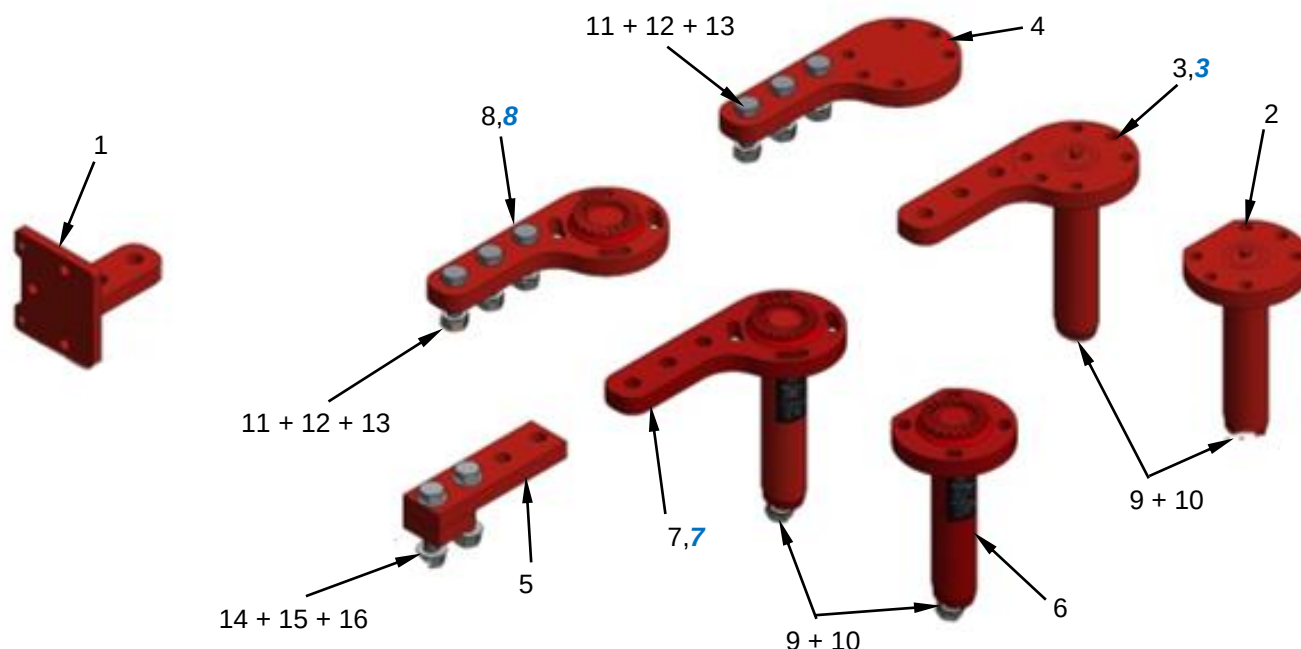


Figure 46 Working shafts and supports for add-on tools

Item no.	Specification	Remark	Quantity	Order no.
1	Mowerflange complete		1	CL861.004000
2	Working shaft for blade share 370 mm (14")	from 2019	1	CA861.001000
3	Working shaft for blade share 500 mm rhs (20")	from 2019	1	CA861.002000
3	Working shaft for blade share 500 mm lhs	from 2019	1	CA861.102000
4	Basic unit complete Rotary cultivator rhs/lhs	from 2019	1	CA861.003000
5	Prolongation of items no. 3, 4, 7 and 8	when using 620 mm (24") blade share and Rotary Cultivator	1	CL861.003100
6	Working shaft for blade share 370 mm (14")	with serrated disk	1	CL861.001000
7	Working shaft for blade share 500 mm rhs (20")	with serrated disk	1	CL861.002000
7	Working shaft for blade share 500 mm lhs	with serrated disk	1	CL861.102000
8	Basic unit complete Rotary cultivator rhs	with serrated disk	1	CL861.003000
8	Basic unit complete Rotary cultivator lhs	with serrated disk	1	CL861.103000
9	Schraubensicherungsscheibe	included in items 2, 3, 6 and 7	1	CW520.007800
10	Sechskantschraube	included in items 2, 3, 6 and 7	1	096116050
11	Schnorrsscheibe	included in items 4 und 8	3	CW520.003100
12	Sechskantschraube	included in items 4 und 8	3	093316055
13	Sechskantmutter	included in items 4 und 8	3	093416
14	Unterlegscheibe	included in item 5	4	012517
15	Sechskantschraube	included in item 5	2	093116080
16	Sechskantmutter	included in item 5	2	093416

Note:



The working shafts and basic units differ with regard to their attachment to the main shaft.

Until year of construction 2018 (up to serial numbers CL861.00640 right / CL861.10514 left) the connection was made via serrated discs, in this case items no. 6, 7 and 8 are to be used.

From year of construction 2019 (from serial numbers CL861.00641 right / CL861.10515 left) the serrated discs are no longer used, in this case the items 2, 3 and 4 are to be used.

10.10 Driven Disks

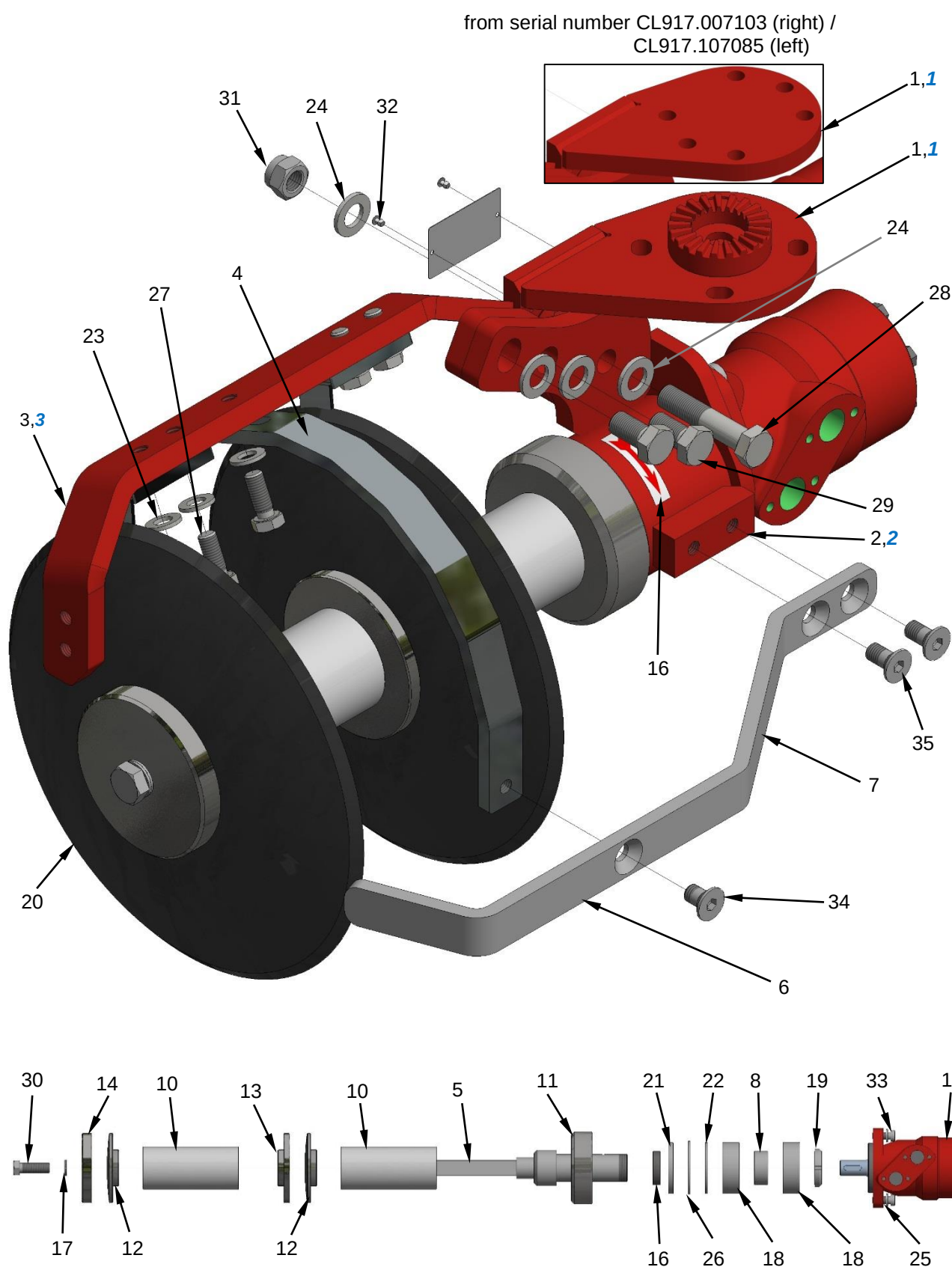


Figure 47 Spare parts Driven Disks

Item no.	Specification	Remark	Quantity	Order no.
	Driven disks complete rhs	complete without item no.36		CL917.007000
	<i>Driven disks complete lhs</i>	<i>complete without item no.36</i>		<i>CL917.107000</i>
1	Angular mount rhs	with serrated disk	1	CL917.007100
<i>1</i>	<i>Angular mount lhs</i>	<i>with serrated disk</i>	<i>1</i>	<i>CL917.107100</i>
1	Angular mount rhs	from serial no. CL917.007103	1	CA917.007100
<i>1</i>	<i>Angular mount lhs</i>	<i>from serial no. CL917.107085</i>	<i>1</i>	<i>CA917.107100</i>
2	Motor mount rhs		1	CL917.007200
<i>2</i>	<i>Motor mount lhs</i>		<i>1</i>	<i>CL917.107200</i>
3	Scraper bracket rhs		1	CL917.007300
<i>3</i>	<i>Scraper bracket lhs</i>		<i>1</i>	<i>CL917.107300</i>
4	Scraper		2	CL917.007400
5	Main shaft		1	CL917.007001
6	Guard rail		1	CL917.007002
7	Deflector		1	CL917.007003
8	Bearing spacer tube		1	CL917.007004
9	Small spacer tube		1	CL917.007005
10	Disk spacer tube		2	CL917.007006
11	Dirt protection		1	CL917.007007
12	Inner ring		2	CL917.007008
13	Outer ring		1	CL917.007009
14	Snap ring		1	CL917.007010
15	Hydraulic motor		1	CL917.007011
16	Sticker „Direction sign“		1	CW002.001500
17	Screw locking disc		1	CW520.007800
18	Spherical roller bearing		2	CW540.069800
19	Locknut		1	CW540.069900
20	Disk		2	CW650.019400
21	Shaft seal		1	CW780.030600
22	Gasket LSTO		1	CW780.027600
23	Washer		5	012513
24	Washer		4	012517
25	Spring washer		2	012712
26	Circlip ring		1	047285s
27	Hexagon head screw		5	093312030
28	Hexagon head screw		1	096016075
29	Hexagon head screw		2	096116035
30	Hexagon head screw		1	096116050
31	All-metal hexagon nut		1	098016015
32	Blind rivet		2	7337030062A
33	Cylinder head screw		2	798412030
34	Flat head screw		1	799112020
35	Flat head screw		2	799112025
36	Sensor rod for Driven Disks		1	CT917.007500

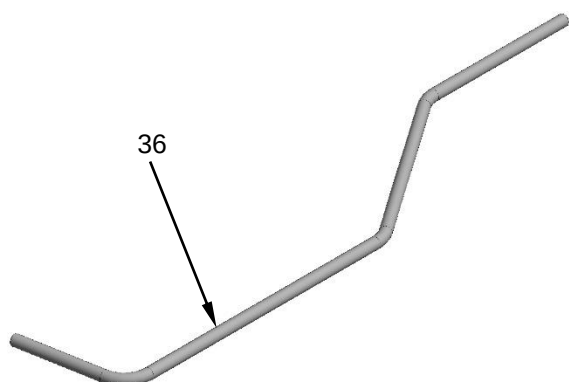


Figure 48 Sensor rod for Driven Disks

10.11 Hydraulic hoses for Driven Disks 1-sided

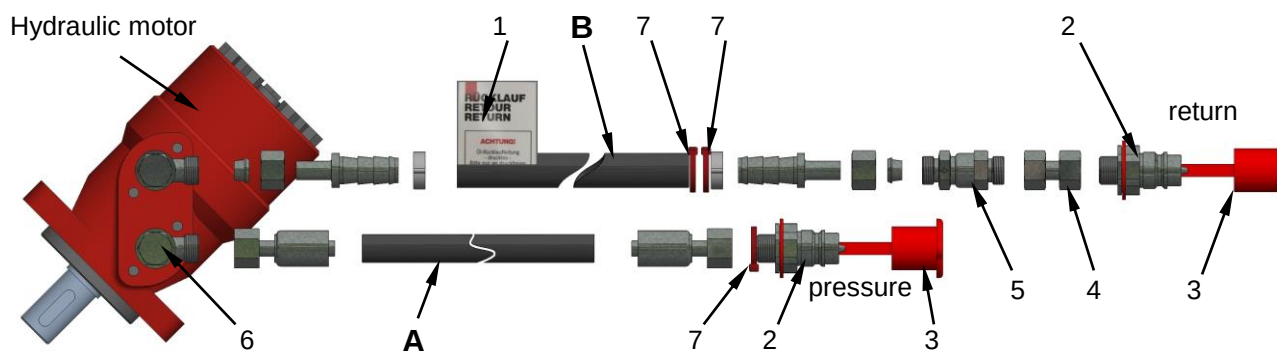


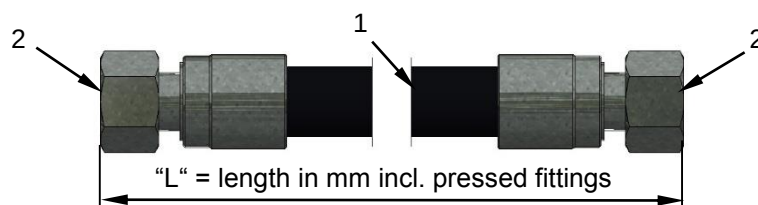
Figure 49 Spare parts Hydraulic hoses for Driven Disks 1-sided

Item no.	Specification	Remark	Quantity	Order no.
	Hydraulic hoses 1-sided complete			CL917.008000
1	Sticker "Return oil hose"		1	CW002.003400
2	Coupling plug		2	CW720.000200
3	Dust cover		2	CW720.006000
4	Straight connection		1	CW730.009000
5	Non-return valve		1	CW730.026000
6	Angular screw connection		2	CW730.073300
7	Cable tie, pink		3	CW830.061000



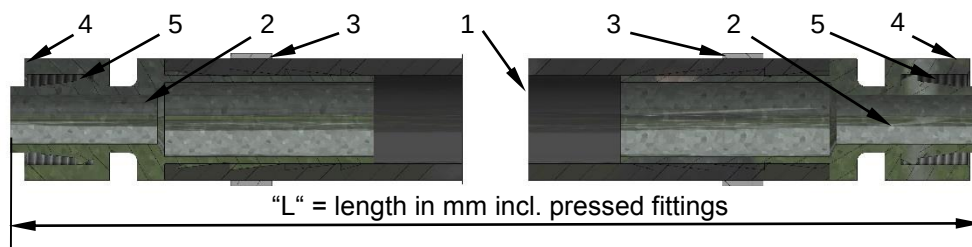
Note:

The optimal hose length varies depending on tractor and type of mounting. Please determine the desired length on site and specify when ordering. The standard length is 4 m ea.



A = Pressure hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.001300
2	Pressed fitting		2	CW710.004200



B = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.002100
2	Hose stem		2	CW011.600100
3	Clip		2	CW500.034000
4	Union nut		2	CW730.011500
5	Ferrule		2	CW730.011600

10.12 Hydraulic hoses for Driven Disks 2-sided

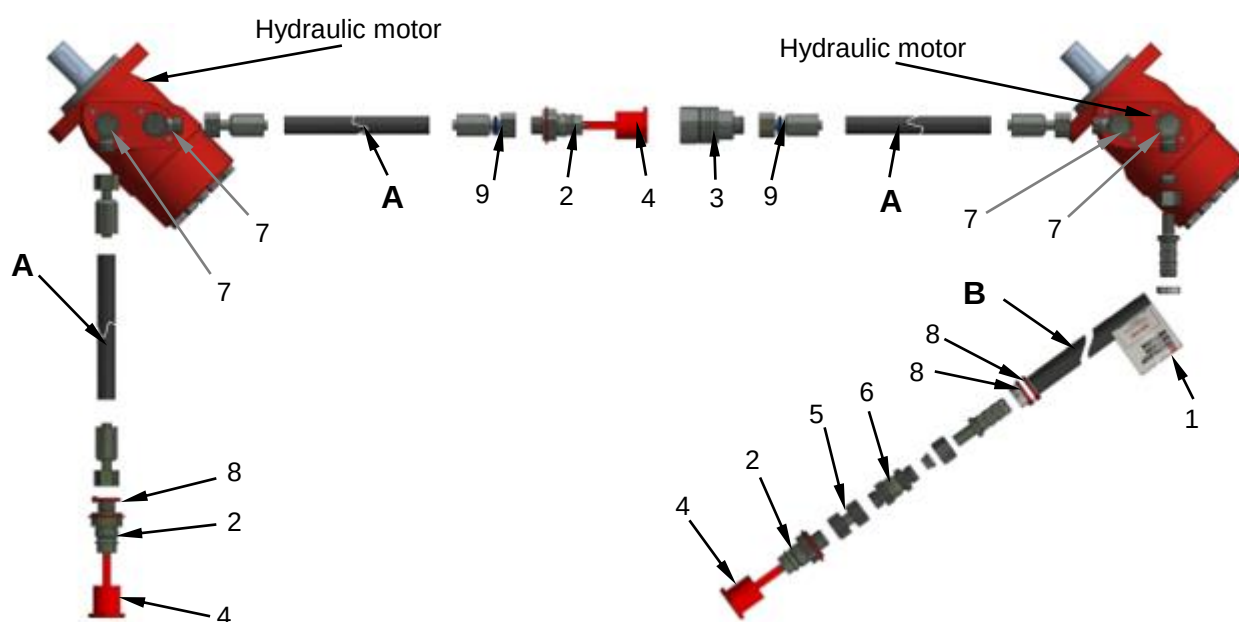
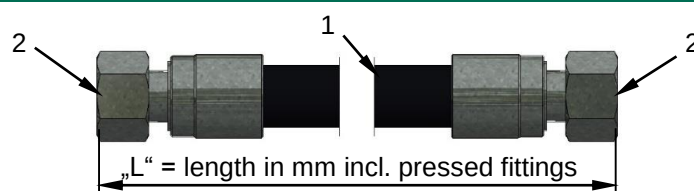


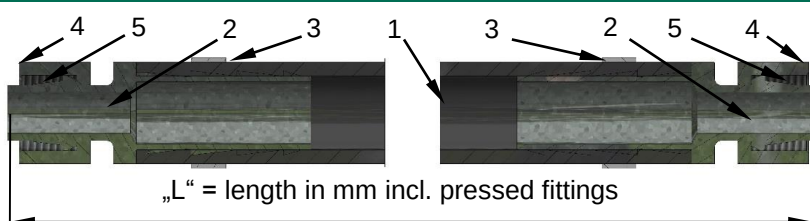
Figure 50 Spare parts Hydraulic hoses for Driven Disks 2-sided

Item no.	Specification	Remark	Quantity	Order no.
	Hydraulic hoses 2-sided complete			CL917.009000
1	Sticker "Return oil hose"		1	CW002.003400
2	Coupling plug		3	CW720.000200
3	Quick coupling sleeve		1	CW720.003600
4	Dust cover for plug		3	CW720.006000
5	Coupling plug		1	CW730.009000
6	Non-return valve		1	CW730.026000
7	Angular screw connection		4	CW730.073300
8	Cable tie, pink		3	CW830.061000
9	Cable tie, blue		2	CW830.061300
	Dust cover for sleeve	not shown	1	CW720.007900



A = Pressure hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.001300
2	Pressed fitting		2	CW710.004200



B = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.002100
2	Hose stem galv.		2	CW011.600100
3	Clip		2	CW500.034000
4	Union nut		2	CW730.011500
5	Ferrule		2	CW730.011600

10.13 Rotary Cultivator

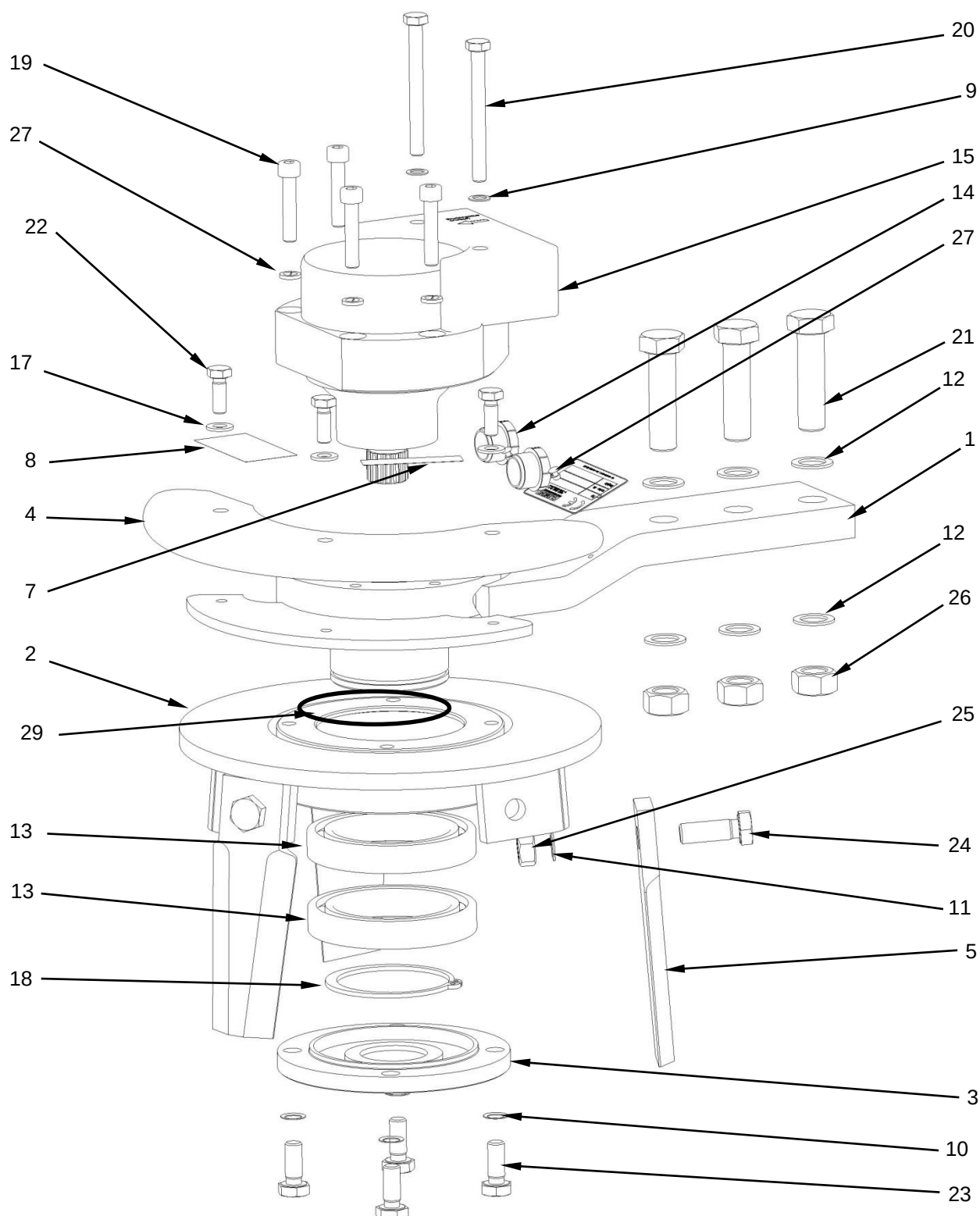


Figure 51 Spare parts Rotary Cultivator

Item no.	Specification	Remark	Quantity	Order no.
	Rotary Cultivator rhs complete			CA917.050000
	<i>Rotary Cultivator lhs complete</i>			<i>CA917.150000</i>
1	Base module rhs		1	CA917.051000
<i>1</i>	<i>Base module lhs</i>		<i>1</i>	<i>CA917.151000</i>
2	Plate unit		1	CA917.052000
3	Cover assembly		1	CA917.053000
4	Deflector		1	CA917.050001
5	Straight tine		3	CA917.050002
7	Sticker "Direction sign"		1	CW002.001500
8	Sticker "Only touch machine parts..."		1	CW002.008400
9	Lock washer		2	CW520.002700
10	Lock washer		4	CW520.002800
11	Lock washer		3	CW520.002900
12	Lock washer		6	CW520.003100
13	Deep groove ball bearing		2	CW540.035600
14	Screwing plug		2	CW600.090100
15	Hydraulic motor		1	CW750.005200
for 15	Seal kit for hydraulic motor		1	CW750.005202
16	Connector block		1	CW750.005201
17	Washer		3	012508
18	Circlip ring		1	047170s
19	Socket head cap screw		4	091208040
20	Hexagon head screw		2	093108080
21	Hexagon head screw		3	093116060
22	Hexagon head screw		3	093308022
23	Hexagon head screw		4	093310025
24	Hexagon head screw		3	093312035
25	Hexagon nut		3	093412
26	Hexagon nut		3	093416
27	Notched nail		2	147603006
28	Spring washer		4	798008s
29	Gasket	from serial number 917.050221	1	CW780.027800
oder 29	Adjusting washer	see note	1	CA917.050003

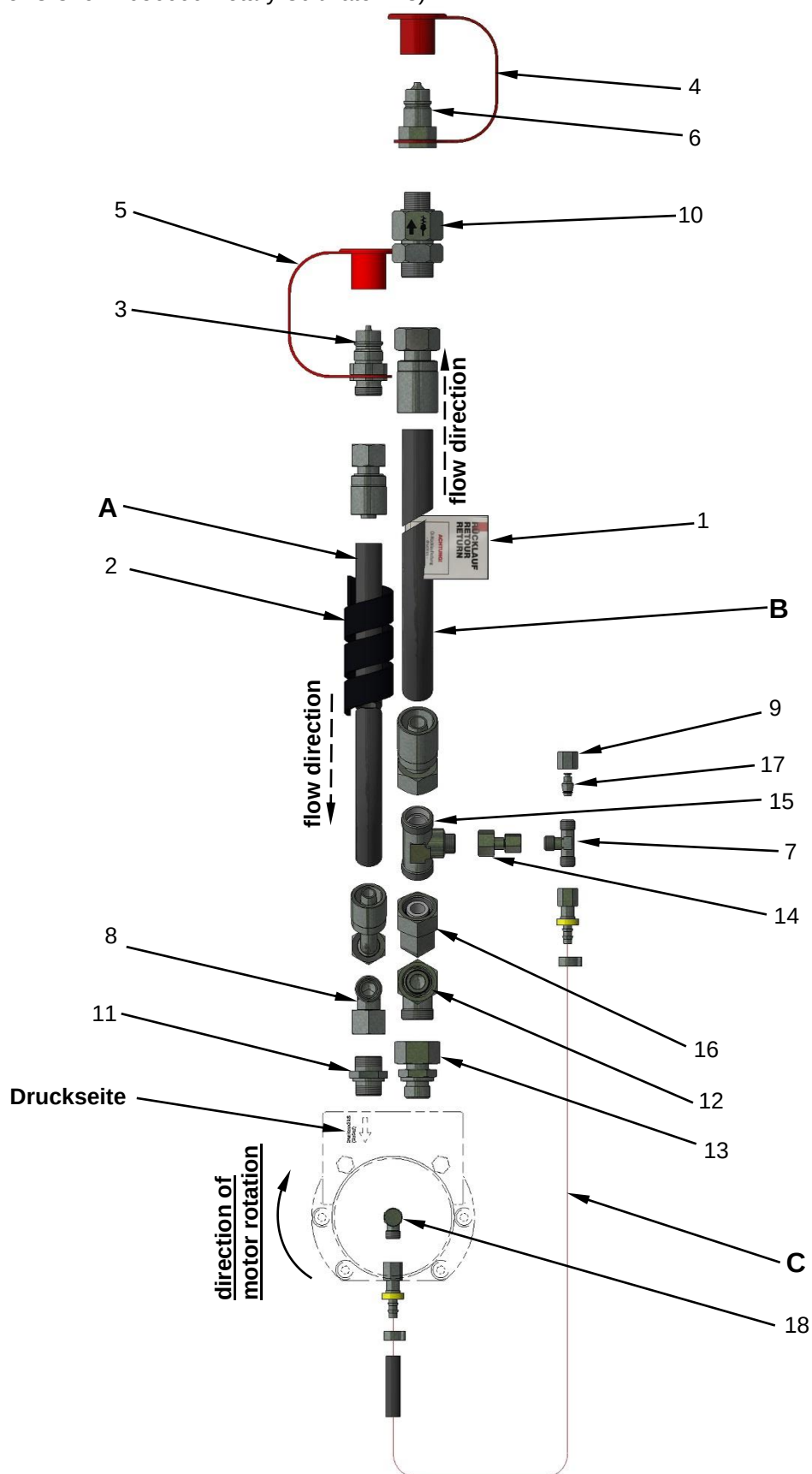


Note:

If only a base module item no. 2 or **only** a plate unit item no. 3 is required for devices with **serial numbers up to 917.050220**, the adjusting washer item no. 29 is required instead of the gasket item no. 29.

10.14 Hydraulic hoses Rotary Cultivator 1-sided

(illustration shows CL917.050000 Rotary Cultivator rhs)



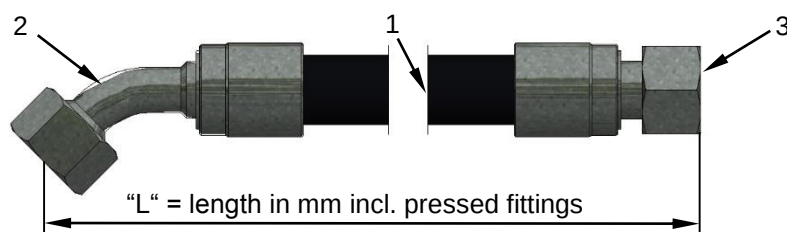
A = Pressure hose

B = Return oil hose

C = Leak oil hose

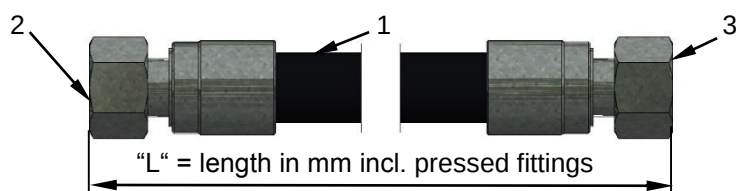
Figure 52 Spare parts Hydraulic hoses Rotary Cultivator 1-sided

Item no.	Specification	Remark	Quantity	Order no.
	Hydraulic hoses 1-sided	complete (without motor)		CA917.055000
1	Sticker "Return oil hose"		1	CW002.003400
2	Hose protector textile	Length in mm		CW700.030000
3	Coupling plug		1	CW720.000300
4	Dust cap		1	CW720.005200
5	Dust cover for coupling plug SVK		1	CW720.006000
6	Quick coupling sleeve BG3		1	CW720.010900
7	T-fitting		1	CW730.004700
8	Angular fitting		1	CW730.004900
9	Union nut		1	CW730.011300
10	Check valve		1	CW730.011700
11	Straight fitting		1	CW730.014800
12	Angular fitting		1	CW730.020900
13	Straight fitting		1	CW730.035300
14	Double nut		1	CW730.042600
15	Reducing coupling		1	CW730.054800
16	Elbow fitting 45°		1	CW730.074200
17	Closing slug		1	CW730.090600
18	Swiveling screw connection		1	CW730.098000
19	Cable tie	not shown	3	CW830.061700



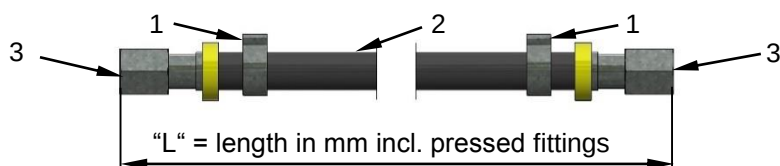
A = Pressure hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.065000
2	Pressed fitting		1	CW710.003500
3	Pressed fitting		1	CW710.004400



B = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.065100
2	Pressed fitting		2	CW710.004500

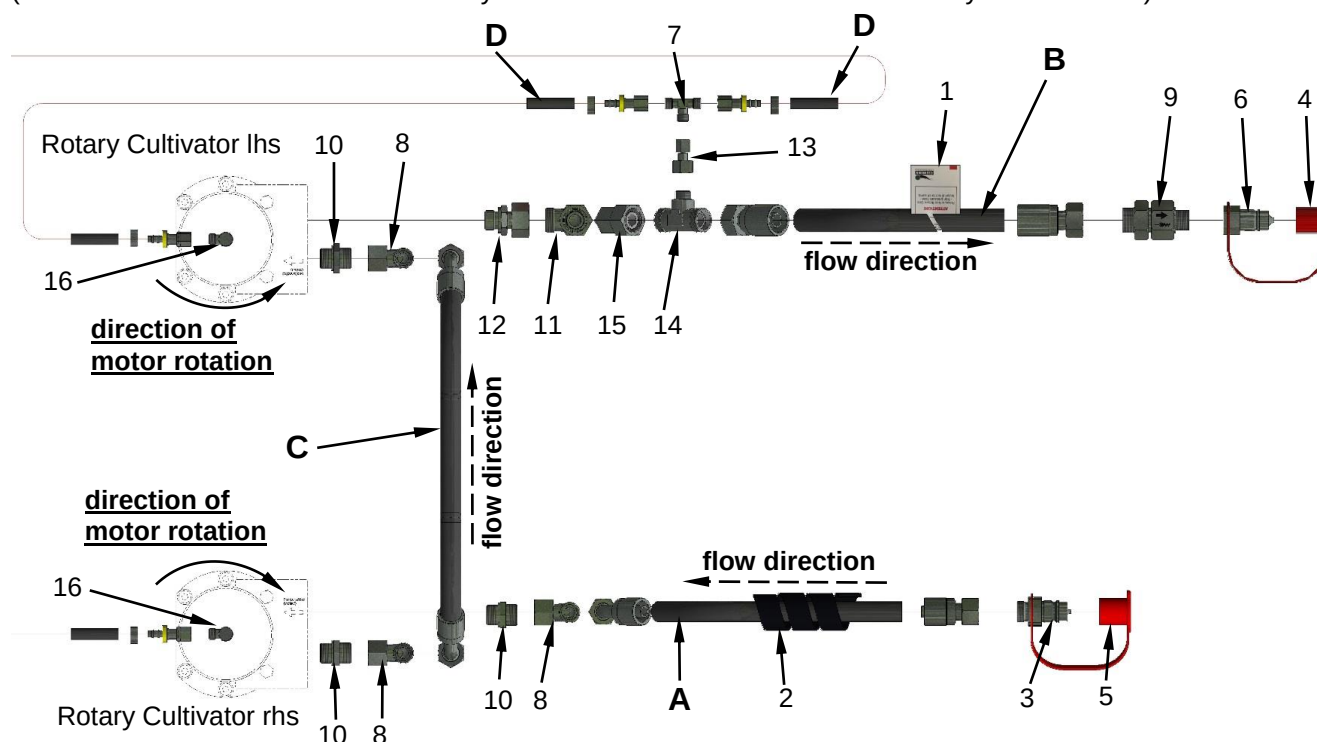


C = Leak oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Ear clamp		2	CW500.034200
2	Hydraulic hose	„L“ = length in mm	1	CW700.002200
3	Pipe socket		2	CW710.008800

10.15 Hydraulic hoses Rotary Cultivator 2-sided

(illustration shows CA917.150000 Rotary Cultivator lhs and CA917.050000 Rotary Cultivator rhs)



A = Pressure hose

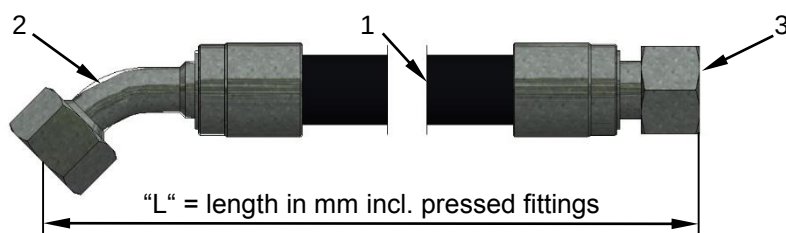
B = Bridge hose

C = Return hose

D = Leak oil hose

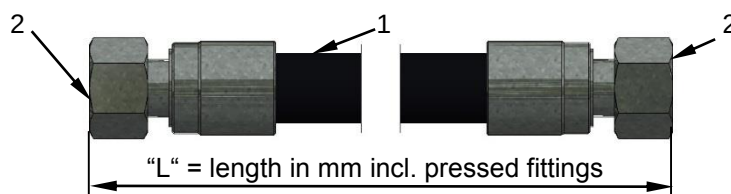
Figure 53 Spare parts Hydraulic hoses Rotary Cultivator 2-sided

Item no.	Specification	Remark	Quantity	Order no.
	Hydraulic hoses 2-sided	complete (without motor)		CA917.056000
1	Sticker "Return oil hose"		1	CW002.003400
2	Hose protector textile	Length in mm		CW700.030000
3	Coupling plug		1	CW720.000300
4	Dust cap		1	CW720.005200
5	Dust cover for coupling plug SVK		1	CW720.006000
6	Quick coupling sleeve BG3		1	CW720.010900
7	T-fitting		1	CW730.004700
8	Angular fitting		3	CW730.004900
9	Check valve		1	CW730.011700
10	Straight fitting		3	CW730.014800
11	Angular fitting		1	CW730.020900
12	Straight fitting		1	CW730.035300
13	Double nut		1	CW730.042600
14	Reducing coupling		1	CW730.054800
15	Elbow fitting 45°		1	CW730.074200
16	Swiveling screw connection		2	CW730.098000
17	Cable tie 4,8 x 178 mm	not shown	5	CW830.061700
18	Cable tie 7,8 x 360 mm	not shown	2	CW830.063300



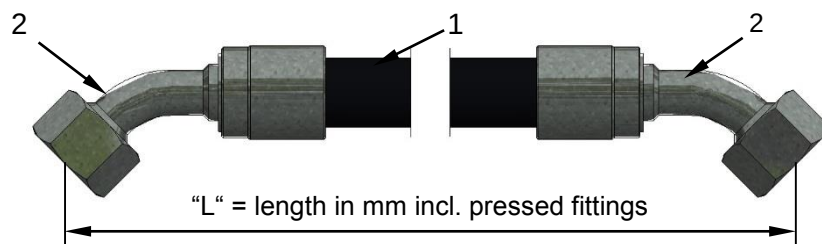
A = Pressure hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	"L" = length in mm	1	CW700.065000
2	Pressed fitting		1	CW710.003500
3	Pressed fitting		1	CW710.004400



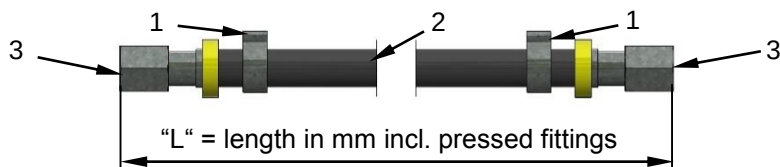
B = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	"L" = length in mm	1	CW700.065100
2	Pressed fitting		2	CW710.004500



C = Bridge hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	"L" = length in mm	1	CW700.065000
2	Pressed fitting		2	CW710.003500



D = Bridge hose

Item no.	Specification	Remark	Quantity	Order no.
1	Ear clamp		2	CW500.034200
2	Hydraulic hose	"L" = length in mm	1	CW700.002200
3	Pipe socket		2	CW710.008800



Note:

When ordering hydraulic hoses for replacement, measure the length "L" (including pressed fittings) and indicate in mm (Conversion aid: 1" = 25.4 mm).

10.16 Conversion kit Rotary Cultivator Reverse

(Connection diagram for Rotary Cultivator 2-sided)

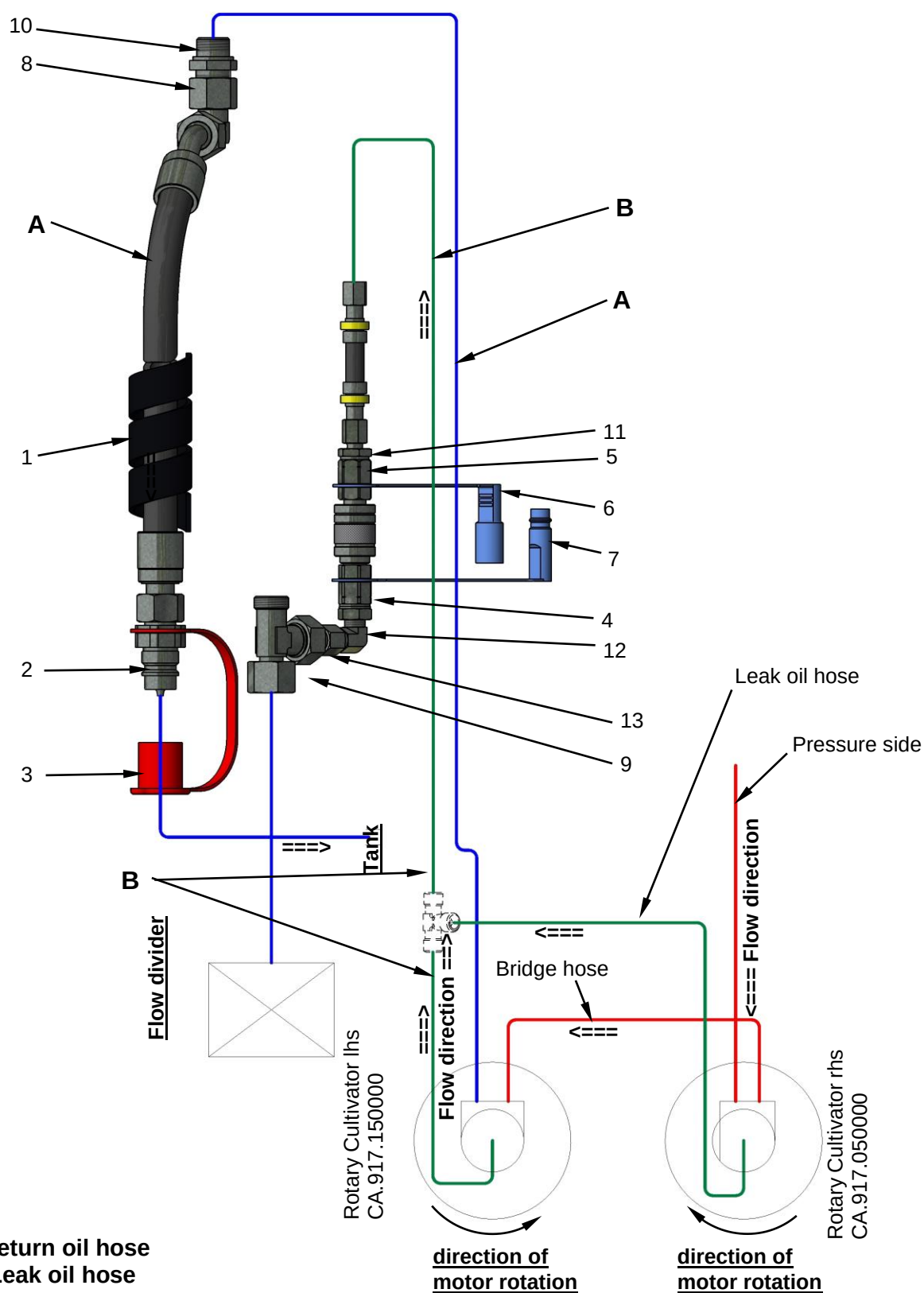
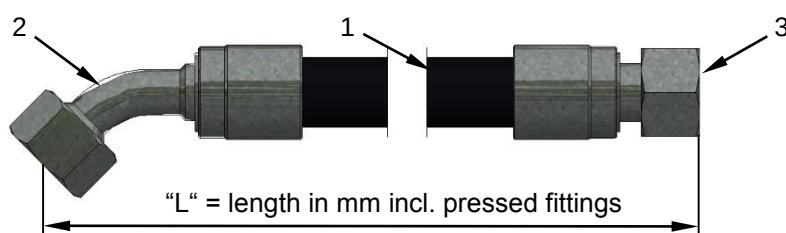


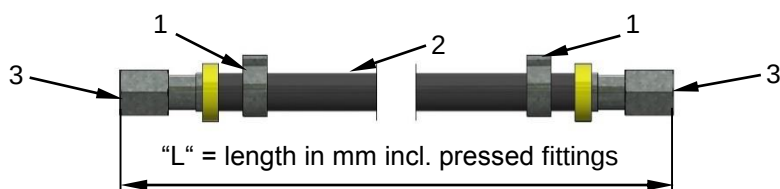
Figure 54 Spare parts Conversion kit Rotary Cultivator Reverse

Item no.	Specification	Remark	Quantity	Order no.
	Conversion kit Rotary Cultivator Reverse	complete		CA895.405000
1	Hose protector textile		1	CW700.030000
2	Coupling plug		1	CW720.000300
3	Dust cover for coupling plug		1	CW720.006000
4	Coupling sleeve		1	CW720.012100
5	Coupling plug		1	CW720.012200
6	Dust cover		1	CW720.012300
7	Dust cover		1	CW720.012400
8	Angular fitting		1	CW730.004900
9	L-Fitting		1	CW730.006200
10	Straight fitting		1	CW730.014800
11	Straight screwed socket		1	CW730.034100
12	Straight fitting		1	CW730.049400
13	Double nut		1	CW730.049600



A = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.065000
2	Pressed fitting		1	CW710.003500
3	Pressed fitting		1	CW710.004400



B = Leak oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Ear clamp		2	CW500.034200
2	Hydraulic hose	„L“ = length in mm	1	CW700.002200
3	Pipe socket		2	CW710.008800



Note:

When ordering hydraulic hoses for replacement, measure the length "L" (including pressed fittings) and indicate in mm (Conversion aid: 1" = 25.4 mm).

10.17 Mower

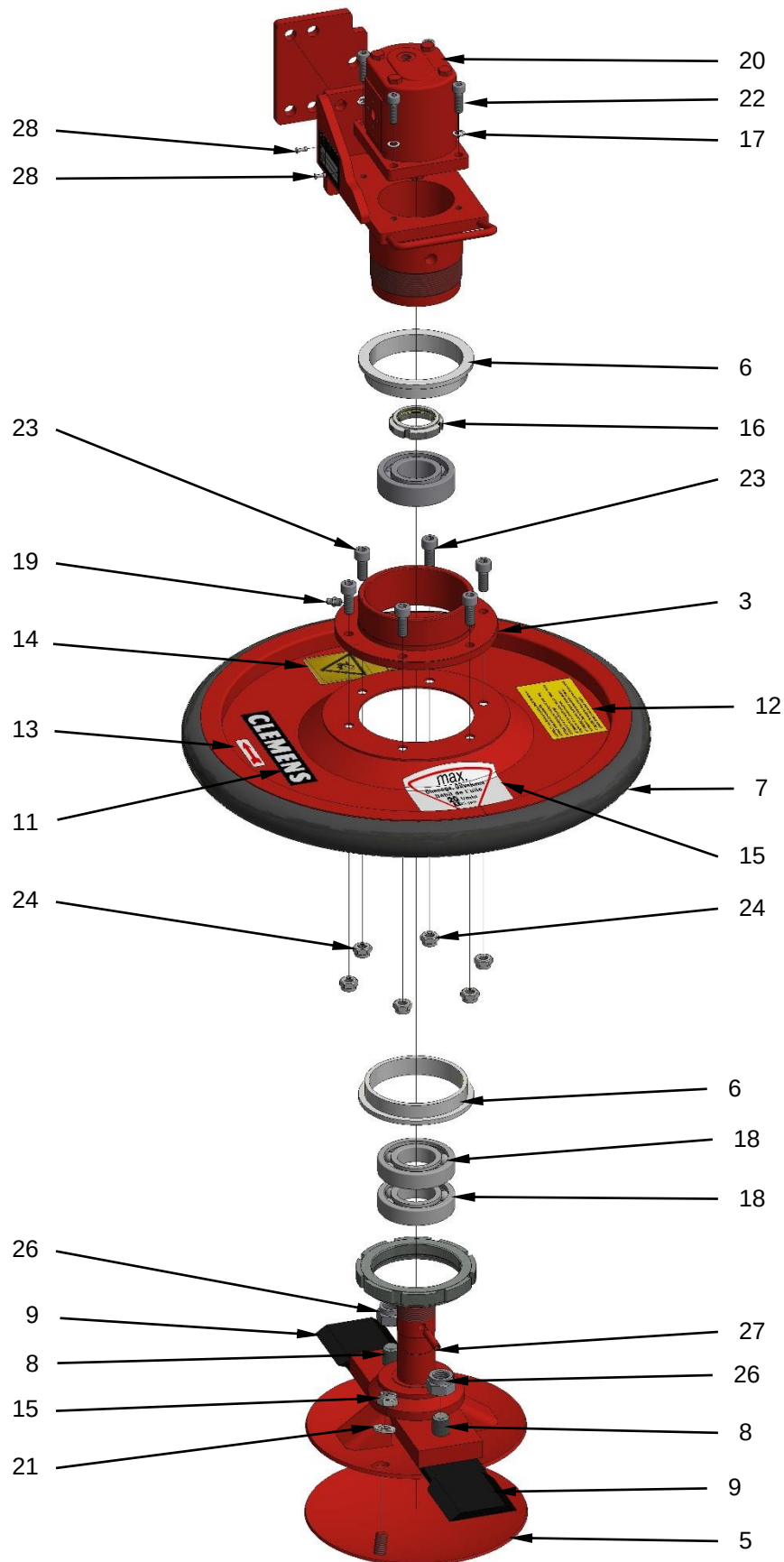


Figure 55 Spare parts Mower

Item no.	Specification	Remark	Quantity	Order no.
	Under-vine rotor mower rhs	complete		CC849.000000
	Under-vine rotor mower lhs	complete		CC849.100000
3	Bearing flange		1	CC849.040000
5	Wear plate		1	CC849.022000
6	Slide bushing		2	CC849.000001
7	Hose protector		1	CC849.000002
8	Knife screw		2	CC849.000003
9	Knife for undervine mower		2	CC849.000004
11	Sticker „CLEMENS“		1	CW002.000900
12	Sticker "Attention! Rotating and running-out tools..."		1	CW002.001400
13	Sticker "Direction sign"		1	CW002.001500
14	Sticker "Danger from hurled material"		1	CW002.003600
15	Sticker "Max. oil quantity 30l/min"		1	CW002.004600
16	Shaft nut		1	CW500.015100
17	Lock washer		4	CW520.002700
18	Deep-groove ball-bearing		2	CW540.028800
19	Conical lubricating nipple		1	CW570.000400
20	Hydraulic motor		1	CW750.004100
for 20	Seal kit for hydraulic motor OT200		1	CW780.030700
21	Washer		2	012513
22	Cylinder head screw		4	091208025
23	Cylinder head screw		6	091210025
24	Hexagon head screw		6	098510
25	Hexagon nut		2	098512
26	Hexagon nut		2	098518
27	Clamping sleeve		1	148108036
28	Blind rivet		2	733703006ALU
29	Pump connection	not shown	2	CW750.015700

10.18 Stone protection Mower

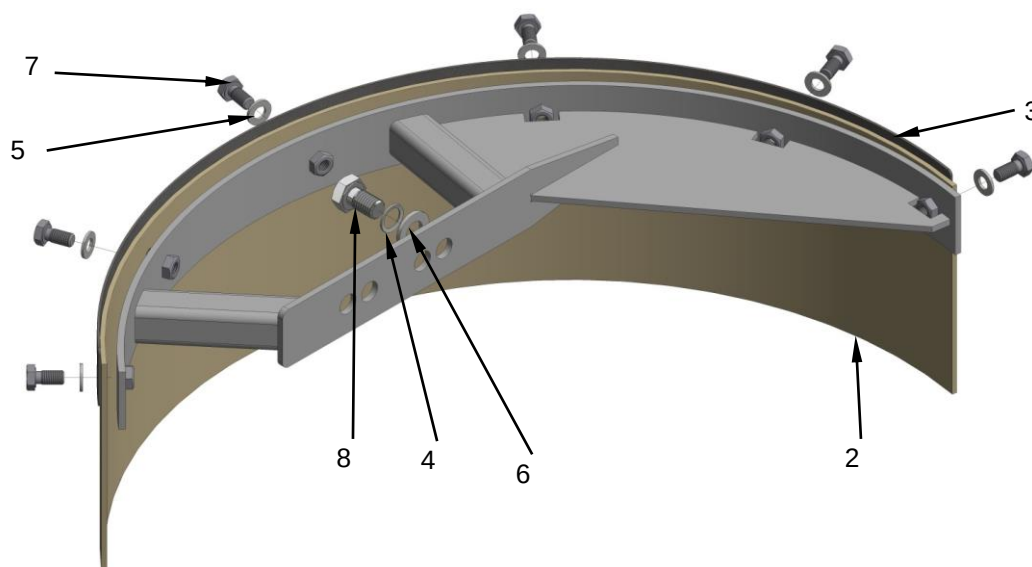
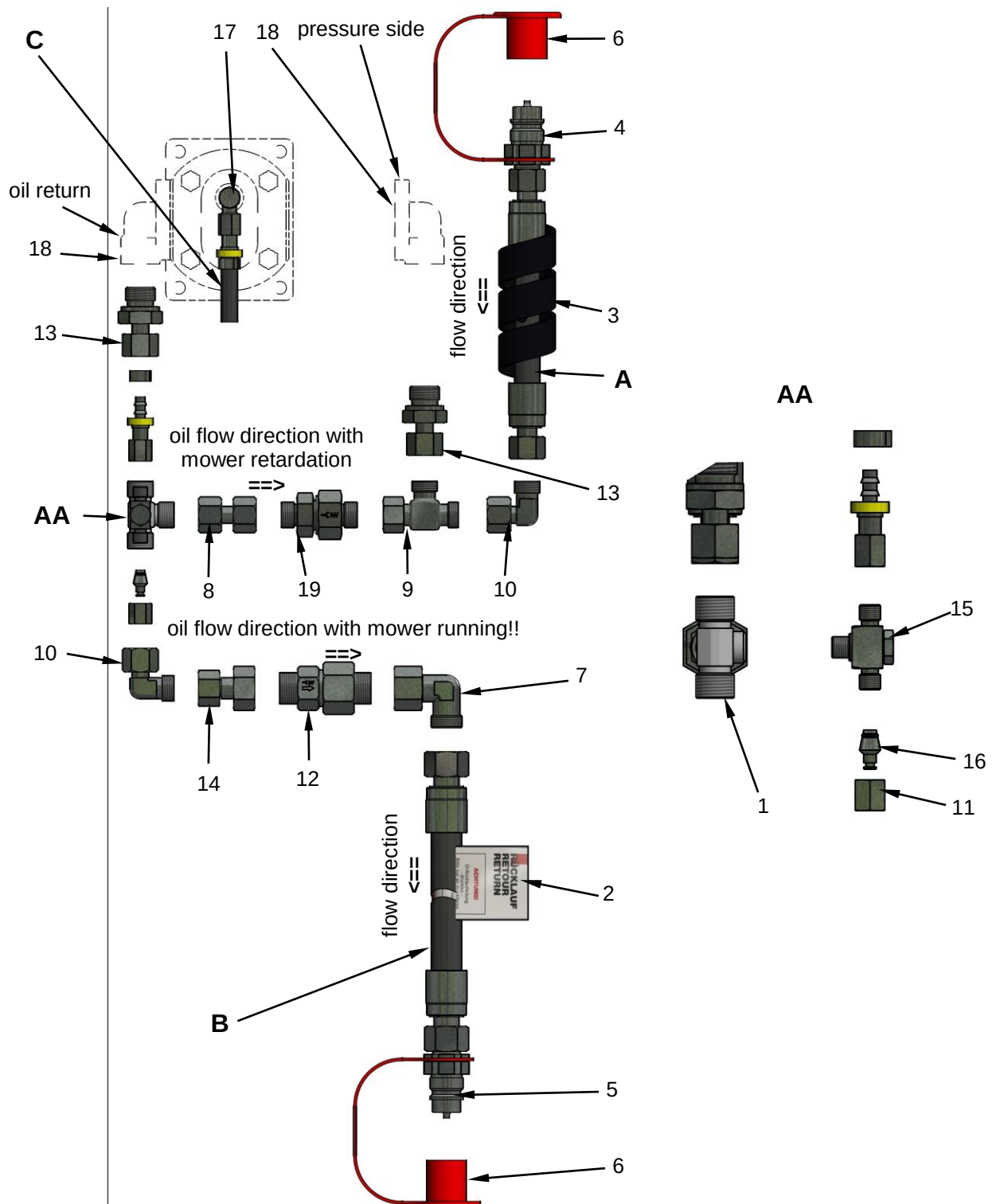


Figure 56 Spare parts Stone protection Mower

All parts can be used on the right and left side.

Item no.	Specification	Remark	Quantity	Order no.
	Stone protection Mower complete	rhs and lhs		CD849.050000
2	Tarpaulin		1	CC849.050001
3	Protective ring		1	CD849.050002
4	Lock washer		1	CW520.002900
5	Washer		6	012508
6	Washer		1	012513
7	Hexagon head screw		6	093308016
8	Hexagon head screw		1	093312020

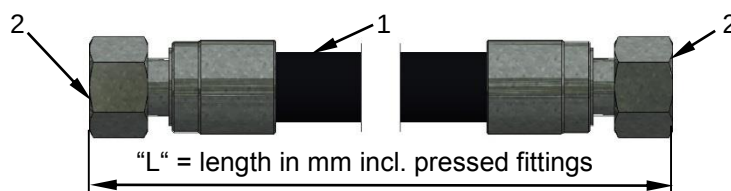
10.19 Hydraulic hoses Mower 1-sided



A = Pressure hose
B = Return oil hose
C = Leak oil hose

Figure 57 Spare parts Hydraulic hoses Mower 1-sided

Item no.	Specification	Remark	Quantity	Order no.
	Hydraulic hoses 1-sided complete	without motor and item no. 18		CC849.070000
1	Return oil collector		1	CC849.060100
2	Sticker "Return oil hose"		1	CW002.003400
3	Hose protector textile	Length in mm	1	CW700.030000
4	Coupling plug		1	CW720.000200
5	Coupling plug		1	CW720.000300
6	Dust cover for coupling plug		2	CW720.006000
7	Angular fitting		1	CW730.004900
8	Straight connection		1	CW730.009000
9	L-Fitting with seal		1	CW730.010300
10	Angular fitting, adjustable		2	CW730.010400
11	Union nut		1	CW730.011300
12	Check valve		1	CW730.011400
13	Straight screwed socket		2	CW730.031600
14	Double nut		1	CW730.042500
15	Swiveling T-fitting		1	CW730.066200
16	Wear slug		1	CW730.090600
17	Swiveling screw connection		1	CW730.098000
18	Pump connection	not included in complete part	2	CW750.015700
19	Check valve		1	CW730.026000

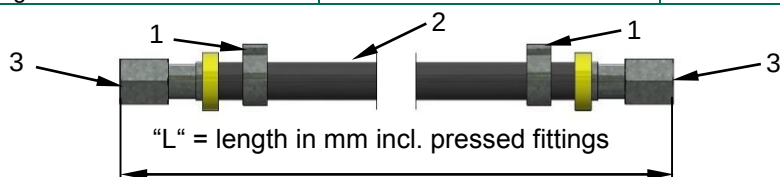


A = Pressure hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.001300
2	Pressed fitting		2	CW710.004200

B = return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.006500
2	Pressed fitting		2	CW710.004400



C = Leak oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Ear clamp		2	CW500.034200
2	Hydraulic hose	„L“ = length in mm	1	CW700.002200
3	Pipe socket		2	CW710.008800



Note:

When ordering hydraulic hoses for replacement, measure the length "L" (including pressed fittings) and indicate in mm (Conversion aid: 1" = 25.4 mm).

10.20 Hydraulic hoses Mower 2-sided

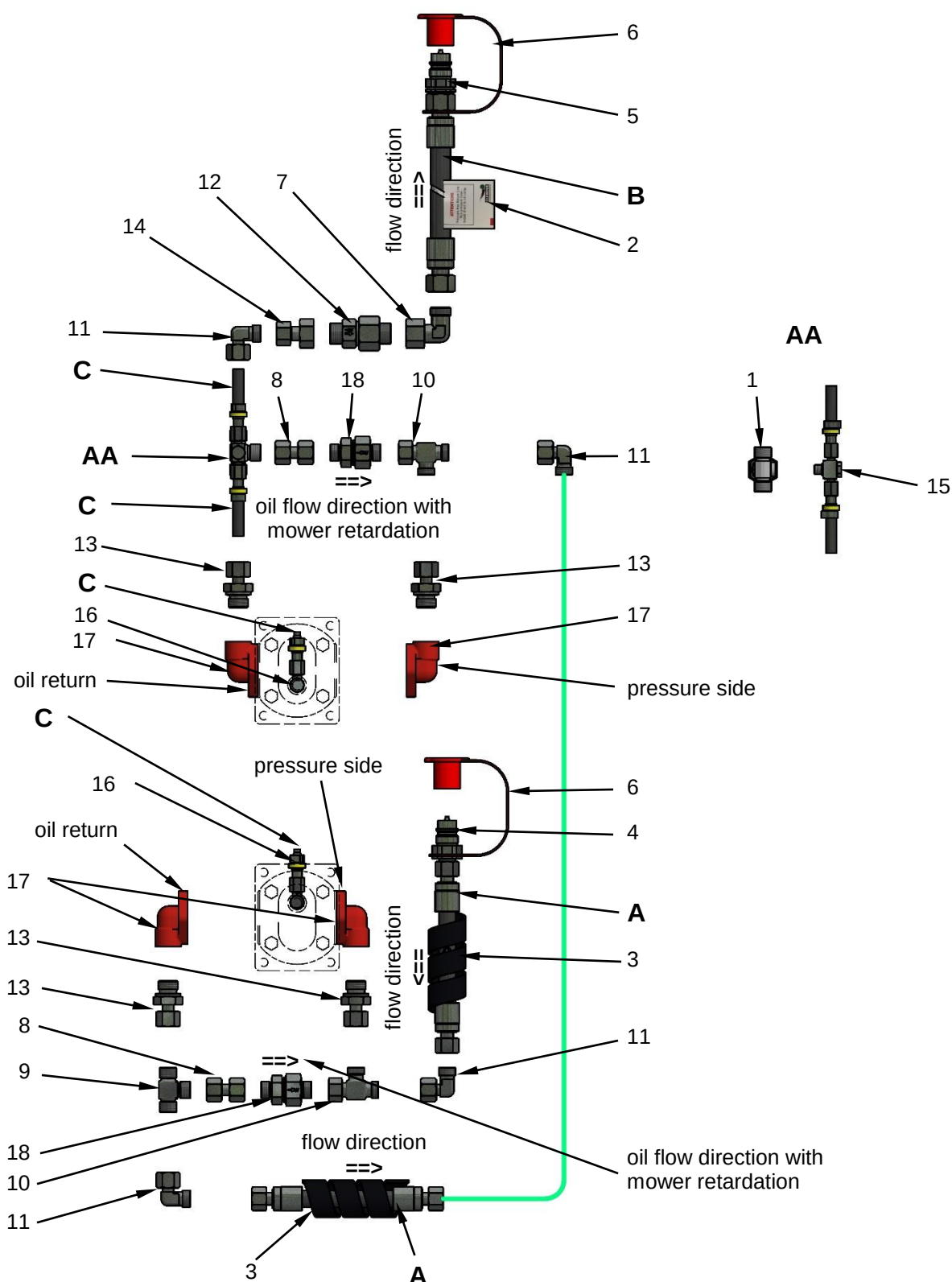
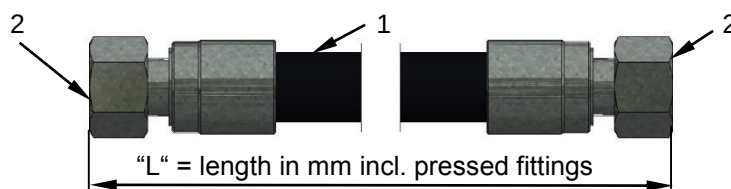


Figure 58 Spare parts Hydraulic hoses Mower 2-sided

Item no.	Specification	Remark	Quantity	Order no.
	Hydraulic hoses 2-sided complete	without motor and item 17		CC849.060000
1	Return oil collector		1	CC849.060100
2	Sticker "Return oil hose"		1	CW002.003400
3	Hose protector textile	Length in mm	1	CW700.030000
4	Coupling plug		1	CW720.000200
5	Coupling plug		1	CW720.000300
6	Dust cover for coupling plug		2	CW720.006000
7	Angular fitting		1	CW730.004900
8	Straight connection		2	CW730.009000
9	L-Fitting with seal		1	CW730.010000
10	Angular fitting, adjustable		2	CW730.010300
11	Check valve		4	CW730.010400
12	Straight screwed socket		1	CW730.011400
13	Double nut		4	CW730.031600
14	Swiveling T-fitting		1	CW730.042500
15	Swiveling screw connection		1	CW730.066200
16	Pump connection		2	CW730.098000
17	L-Fitting with seal	not included in complete part	4	CW750.015700
18	Check valve		2	CW760.026000
19	Cable tie	not shown	5	CW830.063300

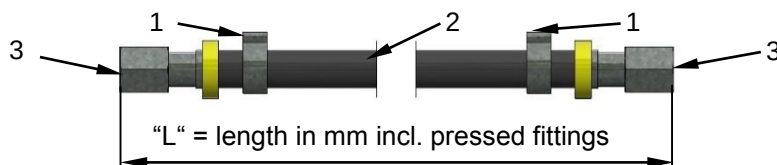


A = Pressure / Bridge hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.001300
2	Pressed fitting		2	CW710.004200

B = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.006500
2	Pressed fitting		2	CW710.004400



C = Leak oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Ear clamp		2	CW500.034200
2	Hydraulic hose	„L“ = length in mm	1	CW700.002200
3	Pipe socket		2	CW710.008800



Note:

When ordering hydraulic hoses for replacement, measure the length "L" (including pressed fittings) and indicate in mm (Conversion aid: 1" = 25.4 mm).

10.21 Disk plow ø 300 mm (11.8")

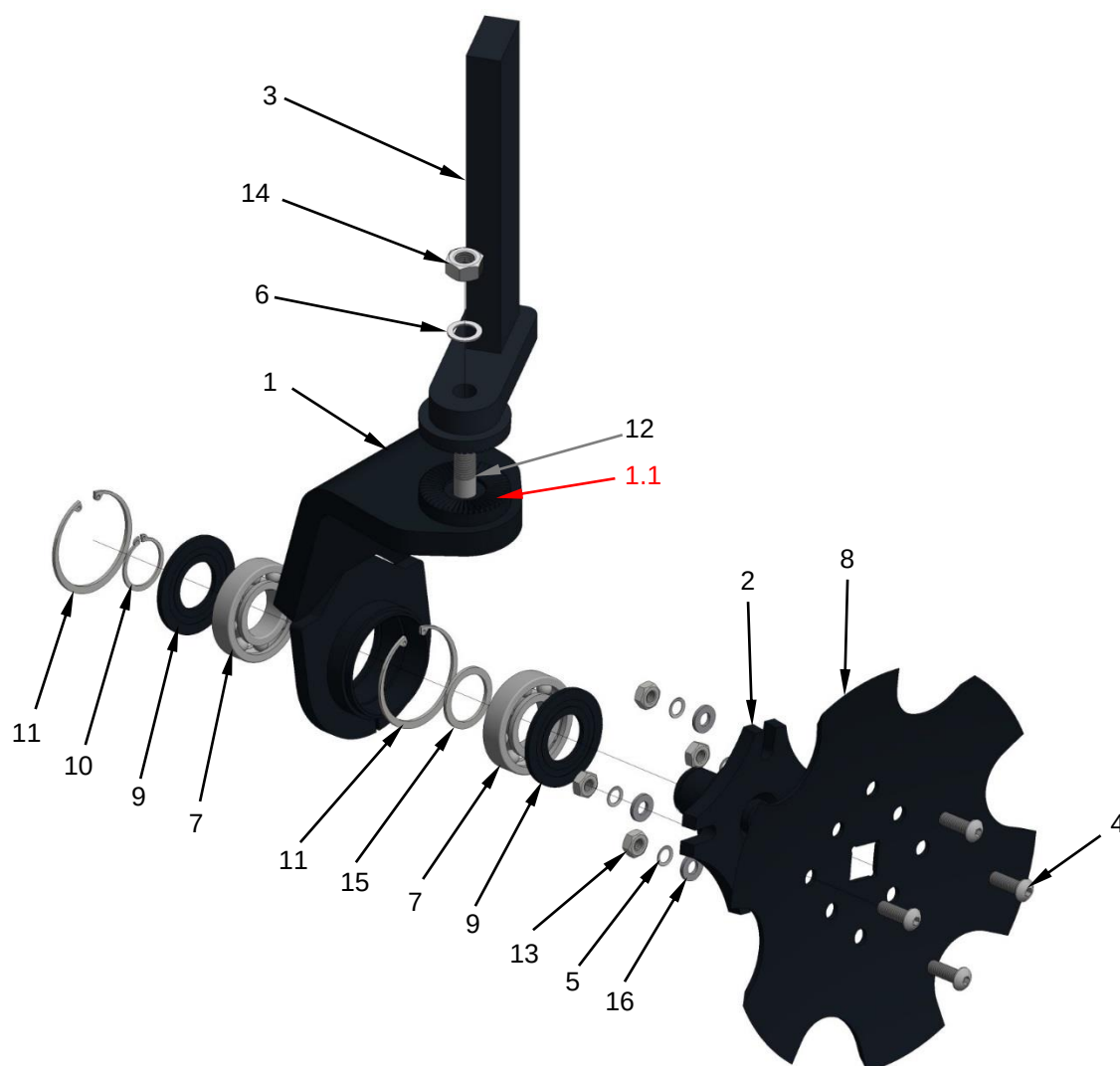


Figure 59 Spare parts Disk plow ø 300 mm (11.8")

Item no.	Specification	Remark	Quantity	Order no.
	Disk plow with indented disk	Disk-ø 300 mm (11.8")		CL926.920000
1	Bowed leg		1	CB919.121000
1.1	Serrated disc ø 65 mm (2.5"), for welding	available separately	1	CW902.002300
2	Disk support		1	CL919.122000
3	Support		1	CL926.923000
4	Oval head screw		4	CW500.010700
5	Lock washer		4	CW520.002800
6	Lock washer		1	CW520.003100
7	Ball bearing		2	CW540.026500
8	Plow disk alternatively: Plow disk	Ø300 mm (11.8") indented Ø300 mm (11.8") plain	1	CW650.015800 CW650.015400
9	Gasket		2	CW780.030000
10	Circlip ring		1	047135
11	Circlip ring		2	047272025
12	Hexagon head screw		1	093116080
13	Hexagon nut		4	093410
14	Hexagon nut		1	093416
15	Supporting ring		1	0988354525s
16	Washer		4	144010

10.22 Disk plow ø 350 mm (13.8")

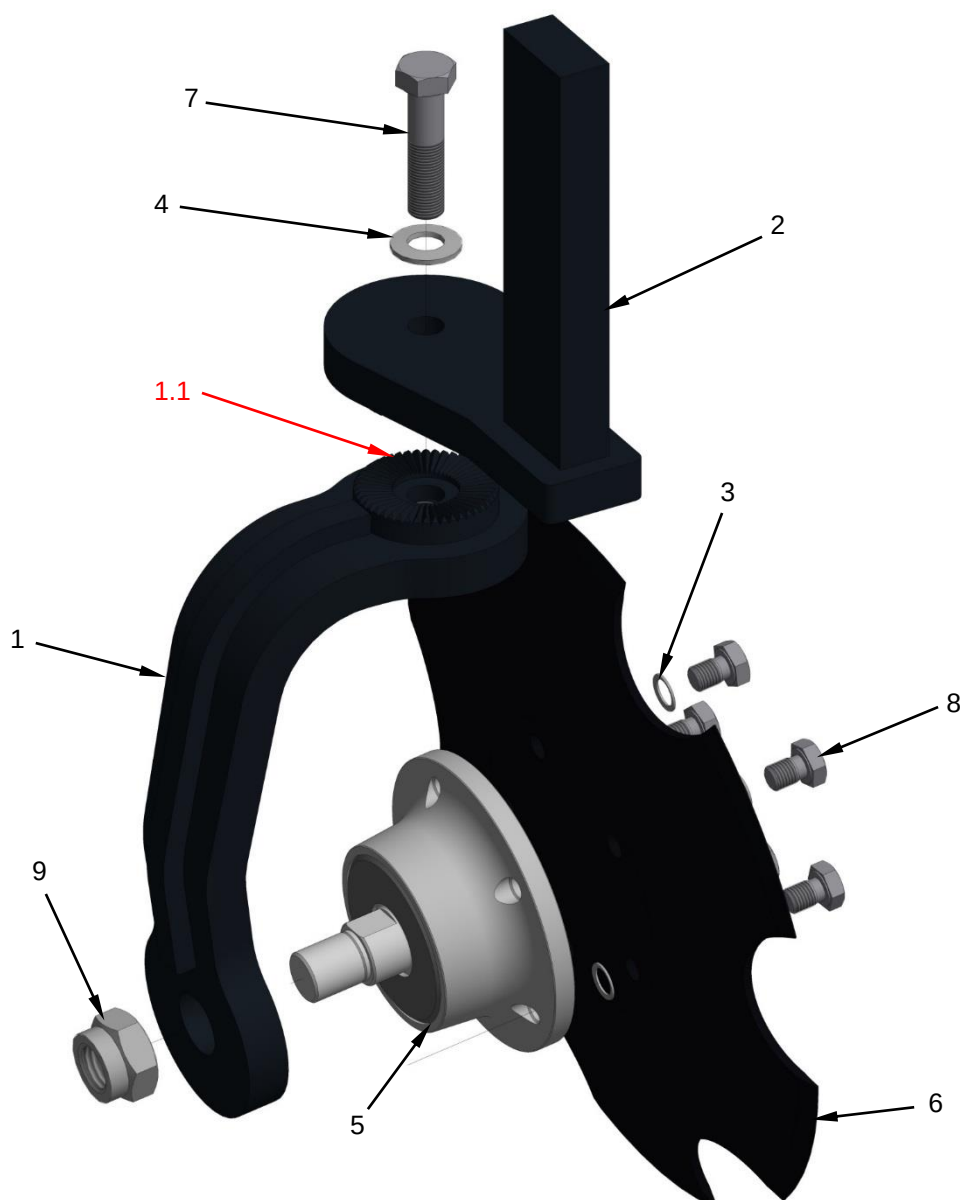


Figure 60 Spare parts Disk plow ø 350 mm (13.8")

Item no.	Specification	Remark	Quantity	Order no.
	Disk plow ø 350 mm (13.8") <i>alternatively:</i> Disk plow ø 350 mm (13.8")	indented <i>plain</i>		CB926.920000 <i>CC926.920000</i>
1	Bowed leg		1	CB926.920100
1.1	Serrated disc ø 65 mm (2.5"), for welding	available separately		CW902.002300
2	Support		1	CB926.920200
3	Lock washer		5	CW520.002900
4	Retaining washer		1	CW520.009900
5	Bearing unit		1	CW540.047900
6	Disk 350 mm (13.8") <i>alternatively:</i> Disk 350 mm (13.8")	indented <i>plain</i>	1	CW650.019300 <i>CW650.019500</i>
7	Hexagon head screw		1	096016065
8	Hexagon head screw		5	096112020
9	Hexagon nut		1	09852420

10.23 Swivelling disk colter

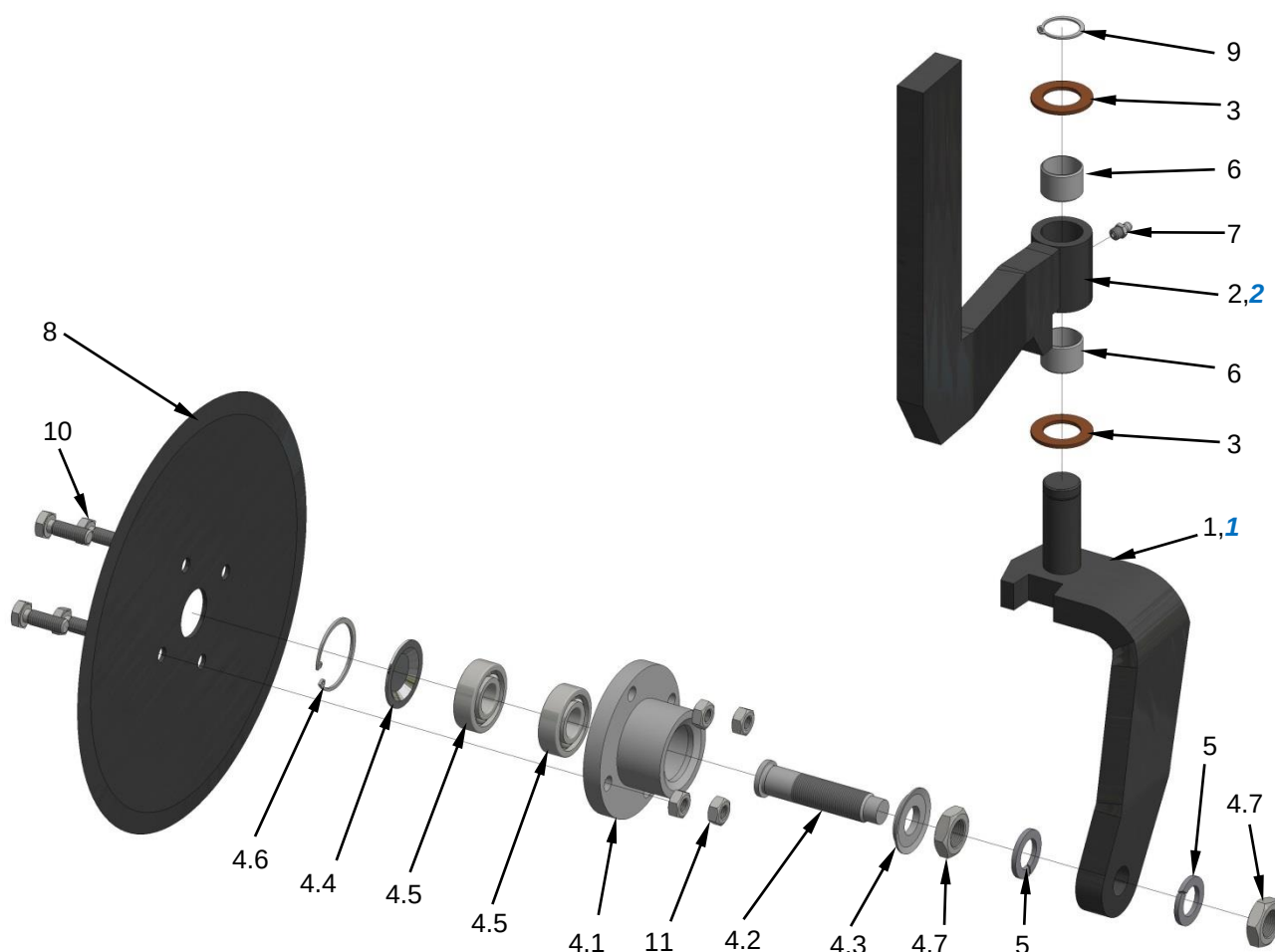


Figure 61 Spare parts Swivelling disk colter

Item no.	Specification	Remark	Quantity	Order no.
	Disk colter 300 mm (11.8") complete rhs	complete		CC919.130000
	Disk colter 300 mm (11.8") complete lhs	complete		CC919.630000
1	Bowed leg rhs		1	CC919.131000
1	Bowed leg lhs		1	CC919.631000
2	Stem rhs		1	CC919.132000
2	Stem lhs		1	CC919.632000
3	Spacer disk		2	CC919.130001
4	Hub support complete		1	CA919.123000
4.1	Hub		1	CA919.123001
4.2	Bolt		1	CA919.123002
4.3	Seal		1	CA919.123003
4.4	Dust protection cover		1	CW004.002400
4.5	Deep groove ball bearing		2	CW540.042700
4.6	Circlip ring		1	047247
4.7	Hexagon nut		1	093620015
5	Lock washer		2	CW520.004000
6	Slide bushing		2	CW550.001600
7	Conical lubricating nipple		1	CW570.000100
8	Colter disc		1	CW650.012200
9	Circlip ring		1	047125
10	Hexagon head screw		4	093310030
11	Hexagon nut		4	093410

10.24 Clearing body LW-1

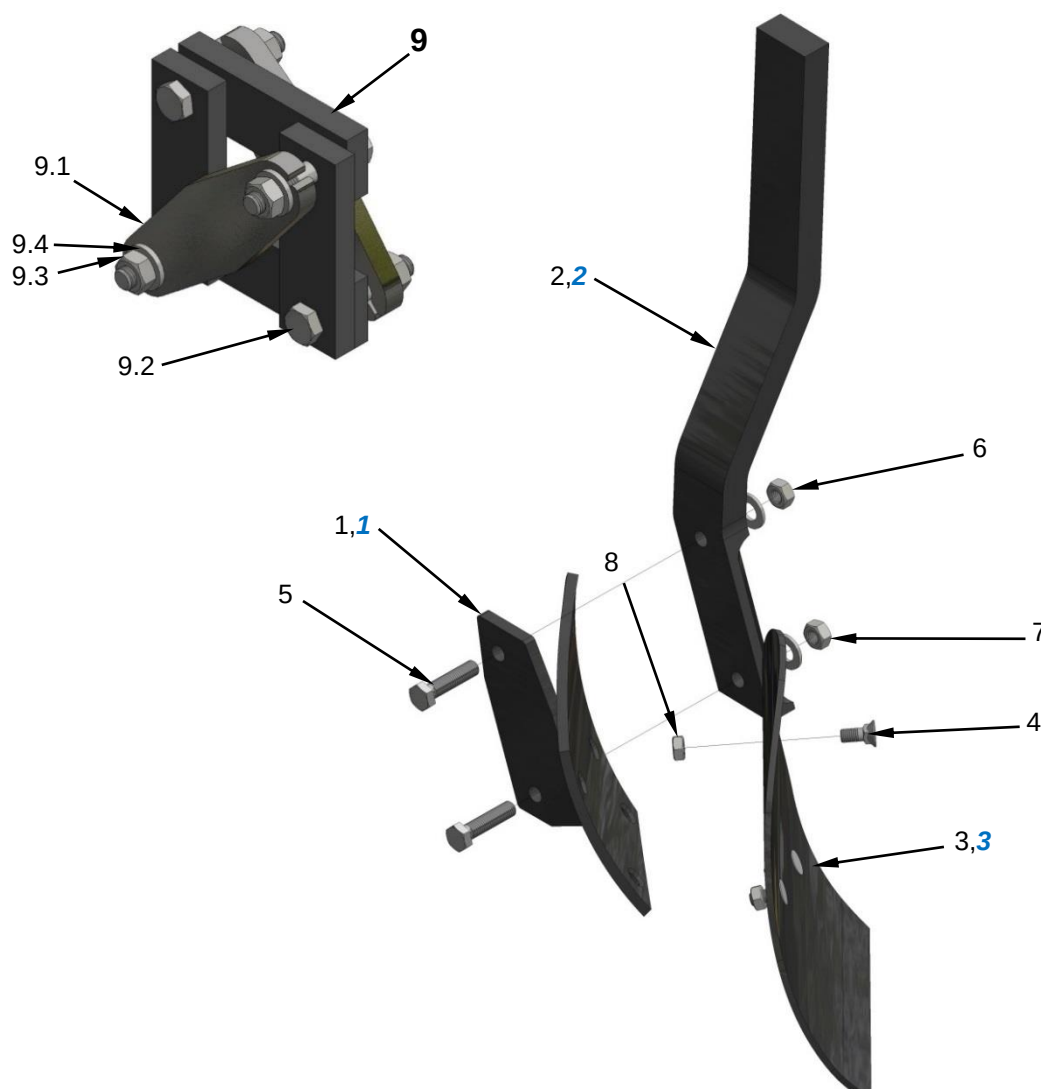


Figure 62 Spare parts Clearing body LW-1

Item no.	Specification	Remark	Quantity	Order no.
	Clearing body LW1 rhs	complete items no. 1-8		CA919.140000
	Clearing body LW1 lhs	complete items no. 1-8		CA919.640000
1	Front rhs		1	CA919.141100
1	Front lhs		1	CA919.641100
2	Leg rhs		1	CL940.160001
2	Leg lhs		1	CL940.170001
3	Offset share rhs		1	CW650.008800
3	Offset share lhs		1	CW650.008900
4	Countersunk screw with nut		3	06081002504s
5	Hexagon head screw		2	093312035
6	Hexagon nut		2	093412
7	Washer		2	012513
8	Hexagon nut		3	093410
9	Additional part for attachment on plows: Mounting clamp complete			CA952.110000
9.1	Clamp strap		2	CW030.000700
9.2	Hexagon head screw		4	093112055
9.3	Hexagon nut		4	093412
9.4	Washer		4	144012

10.25 Lateral angle adjustment 'S' mechanical

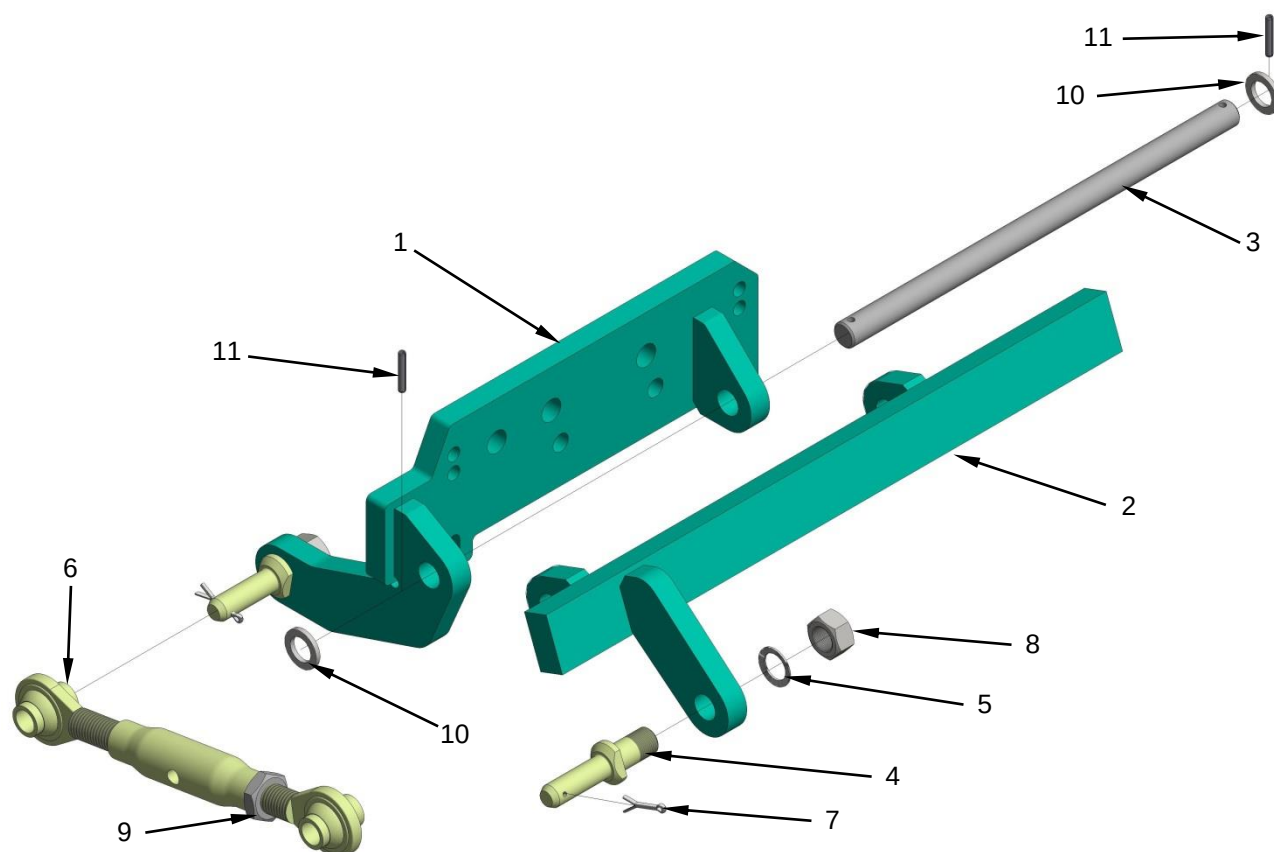


Figure 63 Spare parts Lateral angle adjustment 'S' mechanical

Item no.	Specification	Remark	Quantity	Order no.
	Lateral angle adjustment 'S' mechanical rhs	complete		CI866.360000
	Lateral angle adjustment 'S' mechanical lhs	complete		CI866.370000
1	Mount rhs (from June 2014)		1	CI866.362200
1	Mount lhs (from June 2014)		1	CI866.372200
2	Support rhs		1	CC866.362100
2	Support lhs		1	CC866.372100
3	Bolt		1	CC866.362001
4	Pin		2	CW003.004900
5	Lock washer		2	CW520.003400
6	Upper link complete		1	CW560.000700
7	Split pin		2	009440036
8	Hexagon nut		2	093422015
9	Hexagon nut		1	093624
10	Washer		2	144022
11	Clamping sleeve		2	148106036



Note:

As an alternative to items no. 6 and 9 (upper link) you will find a hydraulic adjustment on the following page.

10.26 Hydraulic installation for Lateral angle adjustment

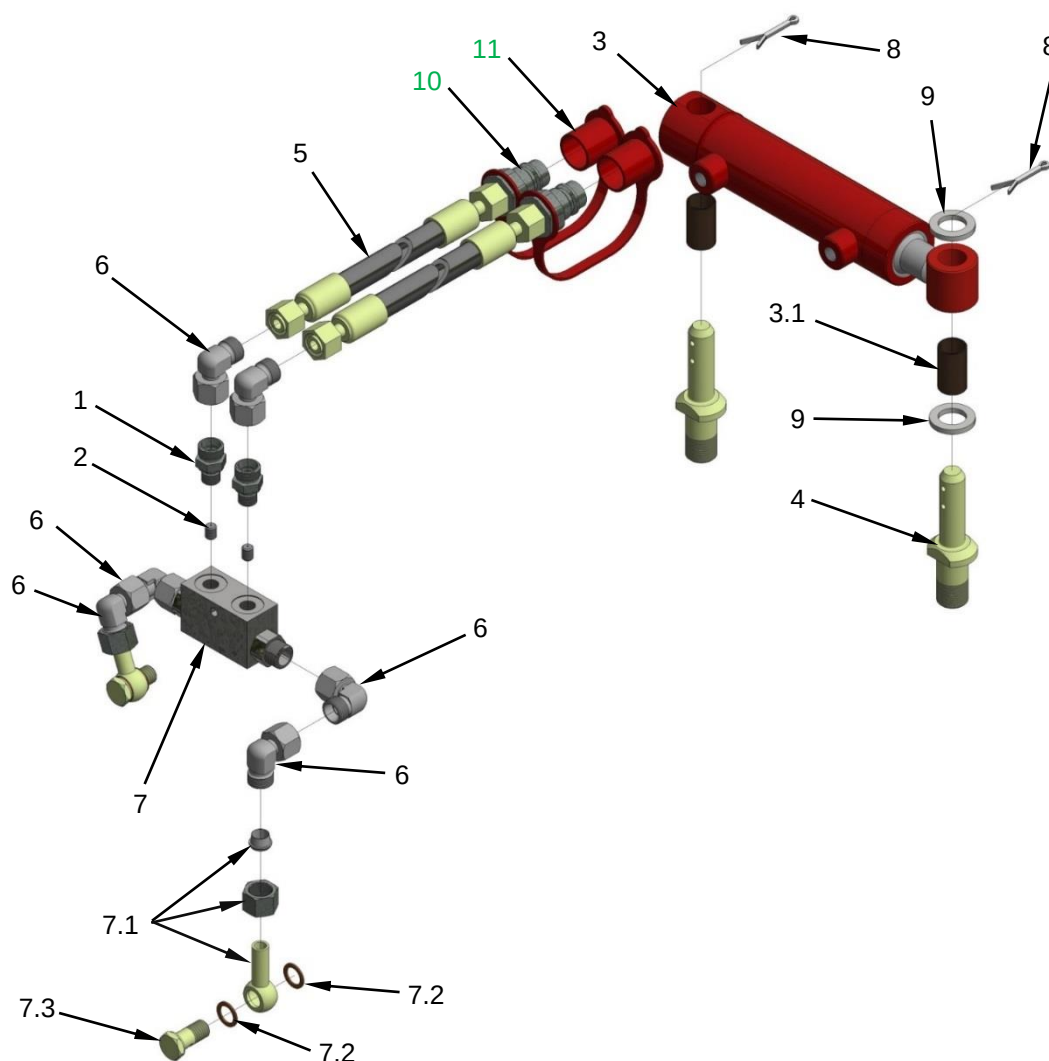
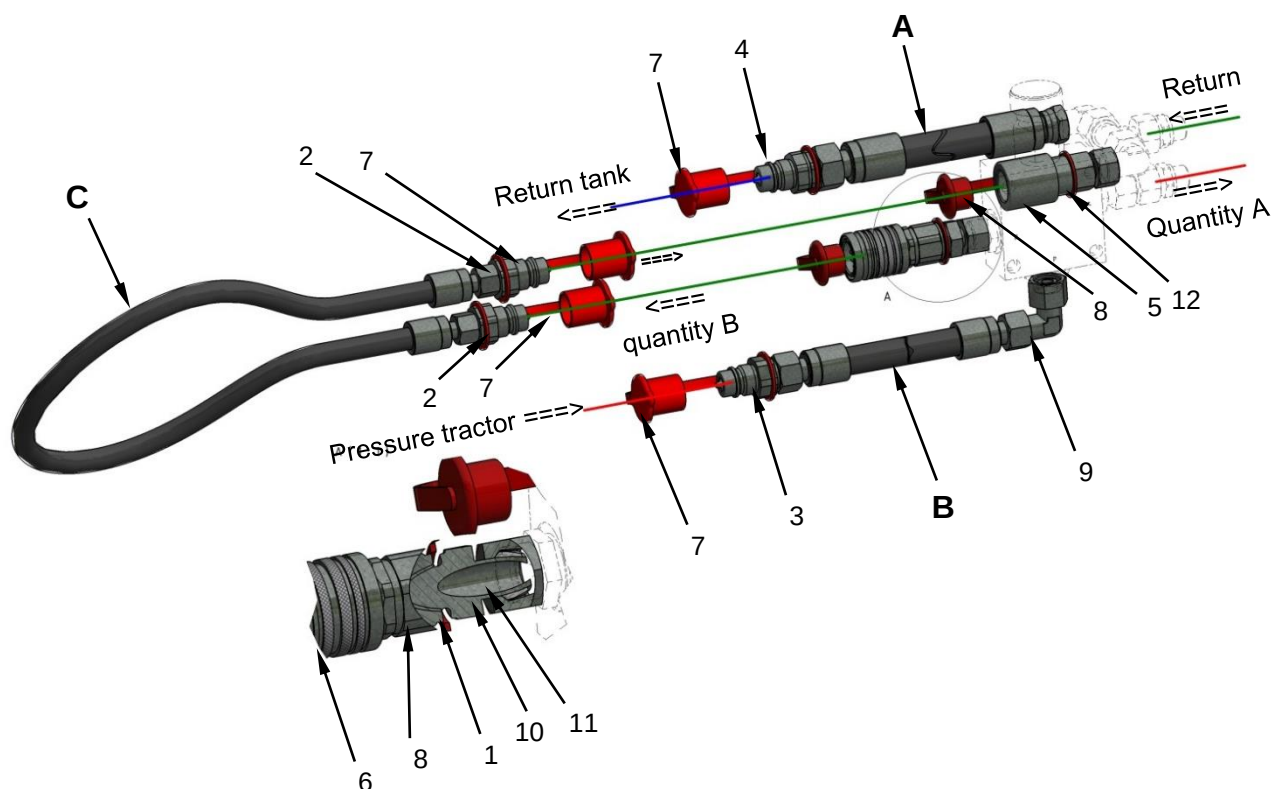


Figure 64 Spare parts Hydraulic installation for Lateral angle adjustment

Item no.	Specification	Remark	Quantity	Order no.
	Hydraulic installation rhs	complete		CF866.361000
	Hydraulic installation lhs	complete		CF866.371000
1	Straight fitting		2	CF866.361101
2	Restricting orifice		2	CF866.361102
3	Hydraulic cylinder (stroke 64 mm (2.5"))	incl. item no. 3.1	1	CA895.610000
3.1	Slide bushing	available separately	2	CA895.610003
4	Bolt		2	CW003.014301
5	Hydraulic hose with pressed fittings	overall length 2500 mm (98.4")	2	CW700.023000
6	Angular fitting, adjustable		6	CW730.010400
7	Check valve double	Complete incl. items 7.1,7.2,7.3	1	CW760.056300
7.1	Banjo fitting w. union nut + cutting ring	Included in item no. 7	2	CW770.001301
7.2	Copper washer	Included in item no. 7	4	CW780.000400
7.3	Hollow screw	Included in item no. 7	2	CW730.030500
8	Split pin		2	009440036
9	Washer		2	144020
10	Coupling plug SVK	standard	2	CW720.000200
	Coupling sleeve SVK	e.g. for Fendt		CW720.003600
	Coupling plug flat	e.g. for Holder		CW720.000700
11	Dust cover for plug SVK	standard	2	CW720.005900 (CW720.006000)
	Dust cover for sleeve SVK	e.g. for Fendt		CW720.007900
	Dust cover for plug flat	e.g. for Holder		CW720.005200
12	Cable tie green	not shown	3	CW830.061200

10.27 Quantity B disconnectable + merged return



A = Pressure hose

B = Return oil hose

C = Bridge hose

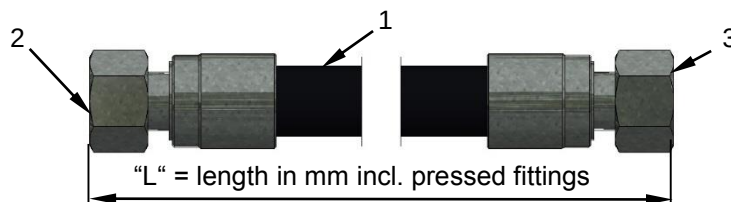
Figure 65 Spare parts Quantity B disconnectable + merged return

Item no.	Specification	Remark	Quantity	Order no.
	Quantity B disconnectable + merged return	complete		CA895.402000
1	Straight screw socket M22x1,5		1	CW011.220500
2	Coupling plug		2	CW720.000200
3	Coupling plug		1	CW720.000300
4	Coupling plug		1	CW720.000400
5	Quick coupling sleeve		1	CW720.003700
6	Coupling sleeve		1	CW720.004200
7	Dust cover for coupling plug		4	CW720.006000
8	Dust cover for coupling sleeve Ø30		2	CW720.007900
9	Angular fitting		1	CW730.004900
10	Union nut		1	CW730.012000
11	Ferrule		1	CW730.012100
12	Double nut		1	CW730.034000



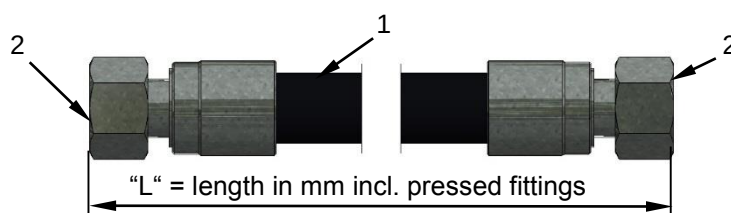
Note:

When ordering hydraulic hoses for replacement, measure the length "L" (including pressed fittings) and indicate in mm (Conversion aid: 1" = 25.4 mm).



A = Pressure hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.065100
2	Pressed fitting		1	CW710.004500
3	Pressed fitting		1	CW710.004600



B = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.065000
2	Pressed fitting		2	CW710.004400

C = Bridge hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.001300
2	Pressed fitting		2	CW710.004200

10.28 Oil flow divider with return oil manifold 50/50 with hoses

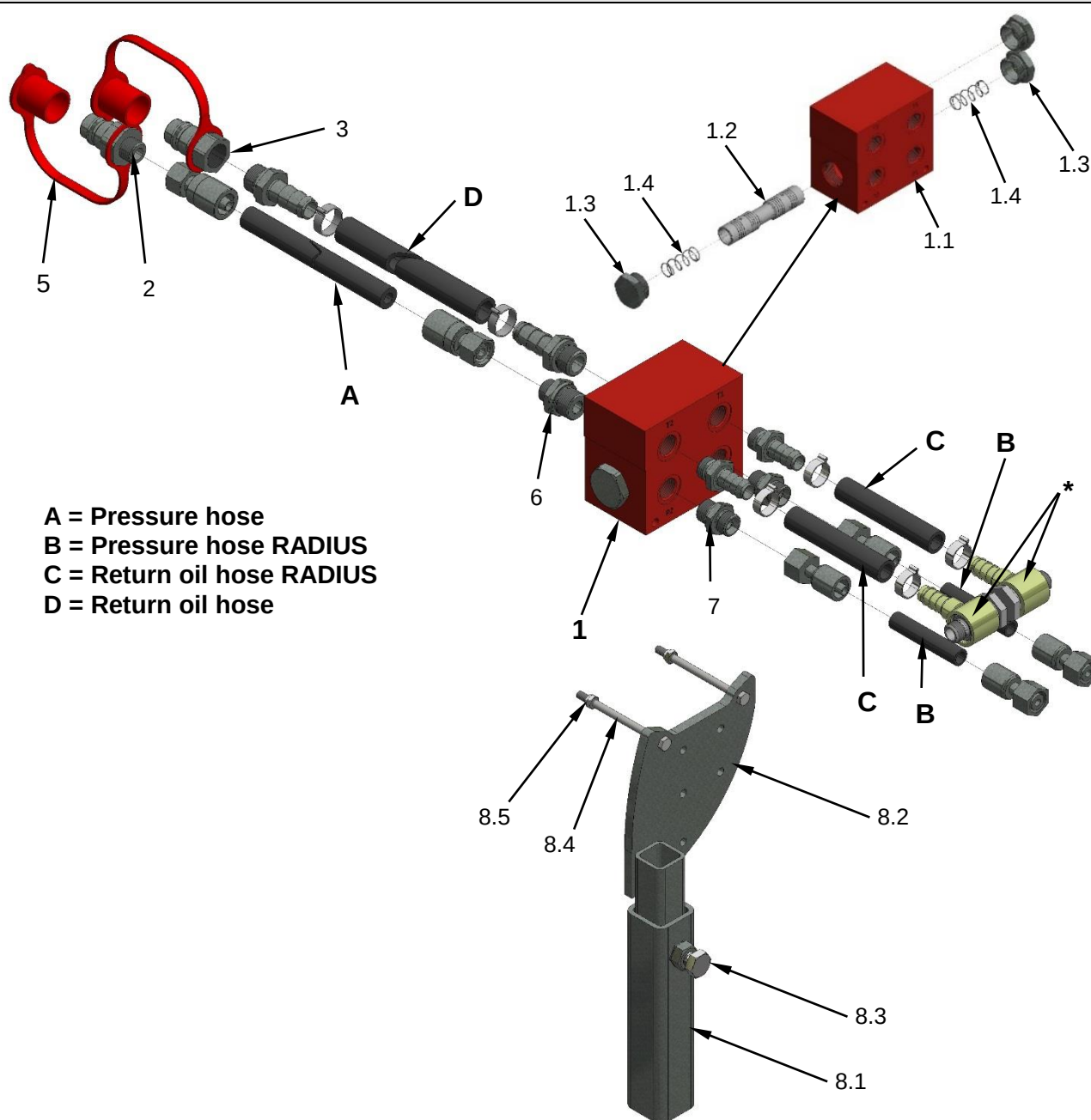


Figure 66 Spare parts Oil flow divider with return oil manifold 50/50 with hoses



Note:

The connection marked * is located on the RADIUS itself. The hose must be pressed at this connection. (see 10.4, items 6, 7 and 22)

The hydraulic hose B is also connected to the RADIUS itself. (see 10.4, item 10)



Note:

When ordering hydraulic hoses for replacement, measure the length "L" (including pressed fittings) and indicate in mm (Conversion aid: 1" = 25.4 mm).

Item no.	Specification	Remark	Quantity	Order no.
	Oil flow divider 50/50	complete items no. 1 - 7 standard + item no. 9		CF856.092000
1	Flow divider / Return oil manifold	complete items no. 1.1 - 1.4	1	CA895.381000
1.1	Valve housing		1	CA895.381001
1.2	Control piston		1	CL895.381002
1.3	Closing screw		3	CW011.006100
1.4	Pressure spring		2	CW009.005500
2	Coupling plug SVK	standard	1	CW720.000200
	Coupling sleeve SVK	e.g. for Fendt		CW720.003600
	Coupling plug flat	e.g. for Holder		CW720.000700
3	Coupling plug SVK	standard	1	CW720.001000
	Coupling sleeve SVK	e.g. for Fendt		CW720.000600
	Coupling plug flat	e.g. for Holder		CW720.004200
4	Dust cover for coupling plug SVK	standard	1	CW720.005900 (CW720.006000)
	Dust cover for coupling sleeve SVK	e.g. for Fendt		CW720.007900
	Dust cover for coupling plug flat	e.g. for Holder		CW720.005300
5	Dust cover for coupling plug SVK	standard	1	CW720.005900 (CW720.006000)
	Dust cover for coupling sleeve SVK	e.g. for Fendt		CW720.007900
	Dust cover for coupling plug flat	e.g. for Holder		CW720.005200
6	Straight screw socket		1	CW730.008600
7	Straight screw socket		2	CW730.008800
8	Mounting bar for flow divider	complete items no. 8.1 – 8.5	1	CB856.085000
8.1	Fastening section		1	CA856.085100
8.2	Support section		1	CB856.085200
8.3	Hexagon head screw		1	093312020
8.4	Hexagon head screw		2	093106090
8.5	Hexagon nut		2	098506
9	Cable tie	not shown	3	CW830.063300



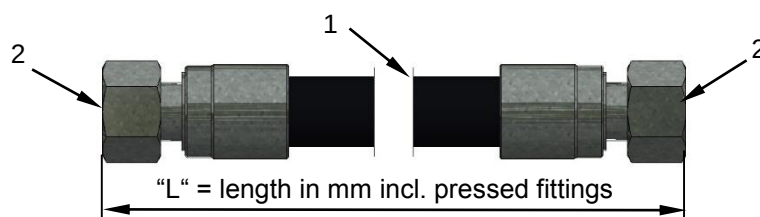
Note:

Item no. 8 Mounting bar for flow divider may differ depending on the mounting frame used:

For HEXAGON frames we use the Mounting bar CC856.085000

For TERACTION frames, an additional CL860.010009 clamping strap and two screw-on sets 093112110 + 098512 + 012315 are required. The order number of the complete group item no. 8 + additional parts is CE856.085000.

For SB frames, the fastening section pos. 8.1 is welded to the frame.

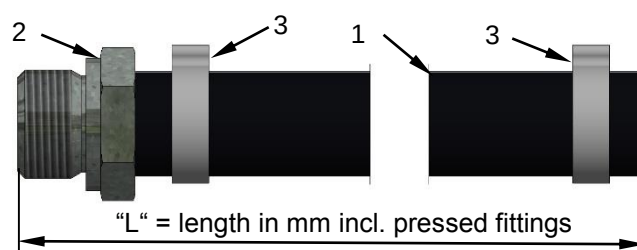


A = Pressure hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 2200 mm (86.6")	„L“ = length in mm	1	CW700.001300
2	Pressed fitting		2	CW710.004200

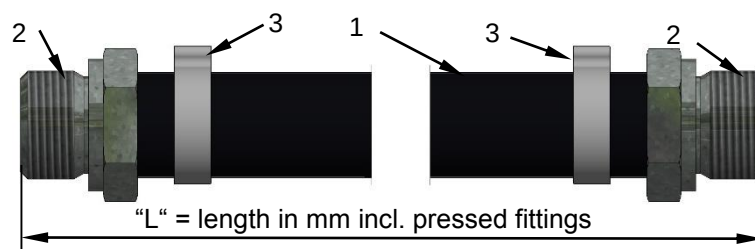
B = Pressure hose RADIUS (2x)

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 2200 mm (86.6")	„L“ = length in mm	1	CW700.001200
2	Pressed fitting		2	CW710.003800



C = Return oil hose RADIUS (2x)

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 2200 mm (86.6")	„L“ = length in mm	1	CW700.001700
2	Threaded hose stem		1	CW011.620800
3	Clip, 1 eye		2	CW500.034100



D = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 2200 mm (86.6")	„L“ = length in mm	1	CW700.002100
2	Threaded hose stem		2	CW011.620100
3	Clip, 1 eye		2	CW500.034000

10.29 Bridge hose for 1-sided operation with 2-sided hydraulic equipment, disconnectable

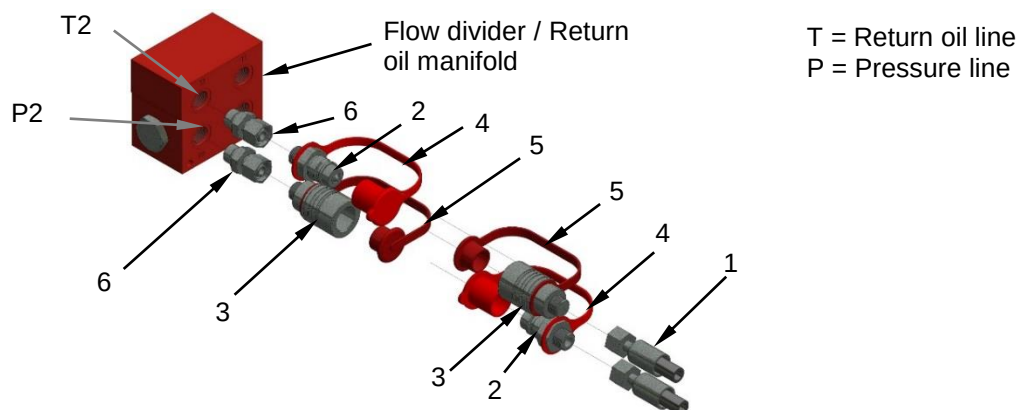


Figure 67 Spare parts Bridge hose 1-sided operation with 2-sided hydraulic equipment, disconnectable

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 360 mm (14.2")	with pressed fittings	1	CW700.021600
2	Coupling plug		2	CW720.000200
3	Coupling sleeve		2	CW720.003600
4	Dust cover for coupling plug		2	CW720.006000
5	Dust cover for coupling sleeve		2	CW720.007900
6	Screw-in fitting		2	CW730.031700

10.30 Retrofit kit manometer

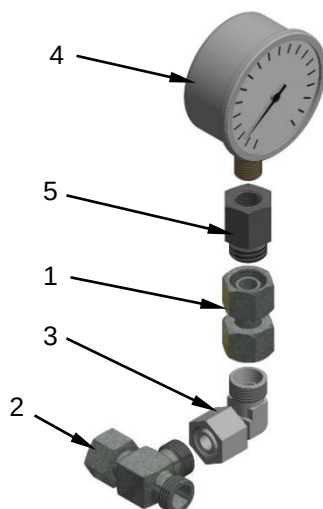


Figure 68 Spare parts Retrofit kit manometer

Item no.	Specification	Remark	Quantity	Order no.
1	Straight connection		1	CW730.009000
2	L-Fitting with seal		1	CW730.010300
3	Angular fitting		1	CW730.010400
4	Manometer 0-250 bar (3626 psi)		1	CW740.063300
5	Manometer connection		1	CW740.063400



Note:

The Retrofit Kit Manometer CA895.391500 is exclusively to be used in conjunction with the Pressure Relief Valve CW760.011600 (included as standard in 2-sided manual control CG856.097000, for 1-sided manual control CF856.097000 available as option).

The retrofit kit manometer is inserted into the supply line "P" via the L-fitting (item no. 2) directly upstream of the pressure relief valve.

10.31 Override valve, electromagnetic, 1-sided, without pressure relief valve

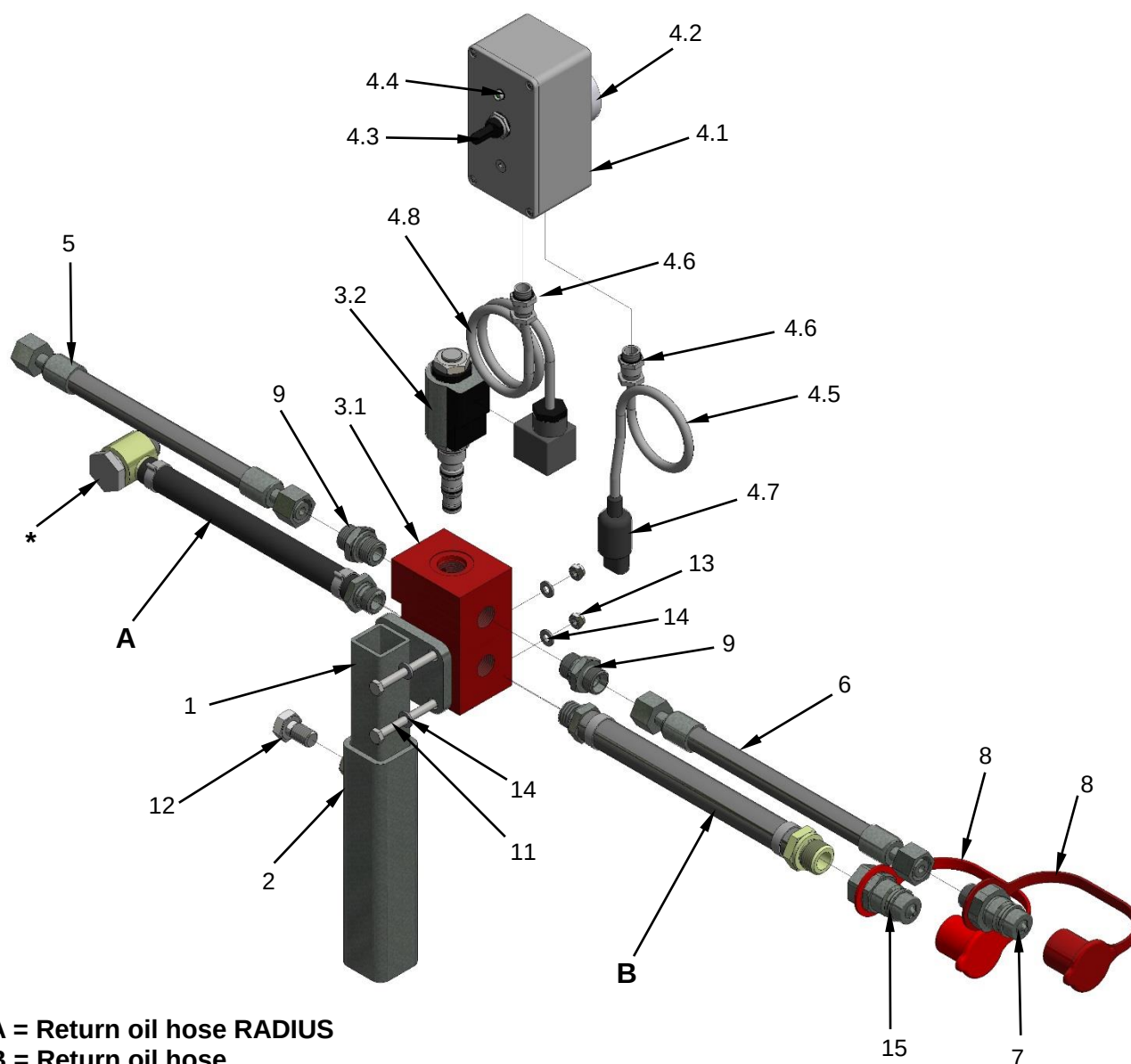


Figure 69 Spare parts Override valve, electromagnetic, 1-sided, without pressure relief valve



Note:

The connection marked * is located on the RADIUS itself. The hose must be pressed at this connection. (see 10.4, items 6, 7 and 22)

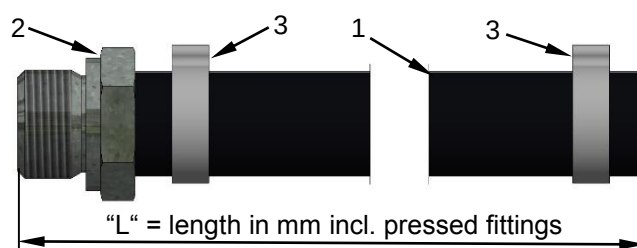
The hydraulic hose CW700.033800 (item no. 5) is also connected to the RADIUS itself. (see 10.4, item 10)



Note:

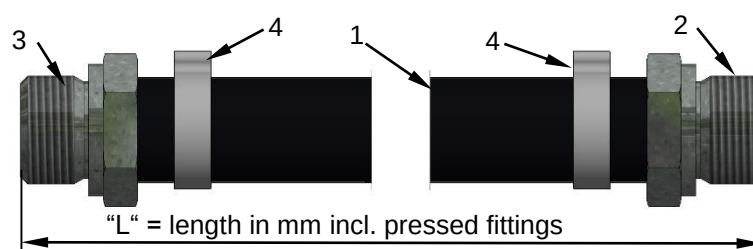
When ordering hydraulic hoses for replacement, measure the length "L" (including pressed fittings) and indicate in mm (Conversion aid: 1" = 25.4 mm).

Item no.	Specification	Remark	Quantity	Order no.
	Override valve electric 1-sided	complete items 1 - 14 + hoses		CF856.097000
1	Fastening section		1	CA856.085100
2	Slide section		1	CA895.359100
3.1	Valve housing	incl. expander	1	CA895.391101
3.2	Electrovalve 4/2 ways		1	CW760.010900
4	Electric parts complete 1 sided	complete incl. items 4.1 - 4.8		CI895.391300
4.1	Housing		1	CI895.391310
4.2	Magnetic clamp, white with hook		1	CW500.010200
4.3	Toggle switch		1	CW820.027900
4.4	Signal light LED		1	CW820.028000
4.5	Cable	1500 mm (59.1")	1	CW830.000100
4.6	Cable fitting		2	CW830.033900
4.7	Plug 3-pin		1	CW830.044200
4.8	Valve connector	incl. cable 4000 mm (157.5")	1	CW830.099900
5	Hydraulic hose 2000 mm (78.7")		1	CW700.038800
6	Hydraulikschlauch 1700 mm (66.9")		1	CW700.023900
7	Coupling plug		1	CW720.000200
8	Dust cover		2	CW720.005900
9	Straight screw socket		6	CW730.008800
10	Cable tie, black	not shown	3	CW830.063300
11	Hexagon head screw		2	093106070
12	Hexagon head screw		1	093312020
13	Hexagon nut		2	098506
14	Washer		4	144006
15	Coupling plug		1	CW720.001000



A = Return oil hose RADIUS

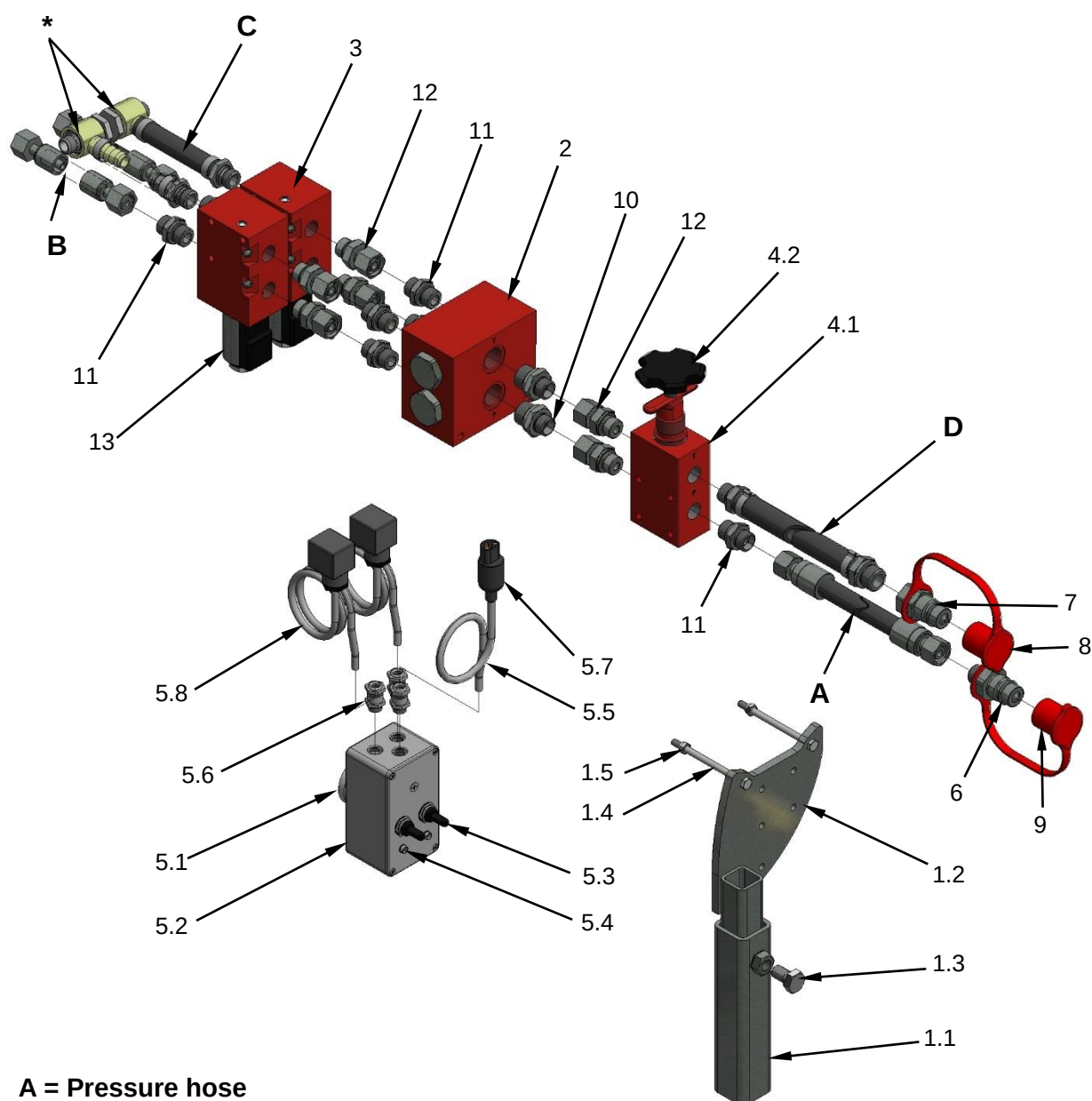
Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 2000 mm (78.7")	„L“ = length in mm	1	CW700.001700
2	Threaded hose stem		1	CW011.620800
3	Clip, 1 eye		2	CW500.034100



B = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulikschlauch 3000 mm (118.1")	„L“ = length in mm	1	CW700.002100
2	Threaded hose stem		1	CW011.620100
3	Threaded hose stem		1	CW011.620900
4	Clip, 1 eye		2	CW500.034000

10.32 Override valve, electromagnetic, 2-sided, with pressure relief valve



A = Pressure hose
B = Pressure hose RADIUS
C = Return oil hose RADIUS
D = Return oil hose

Figure 70 Spare parts Override valve, electromagnetic, 2-sided, with pressure relief valve



Note:

The connection marked * is located on the RADIUS itself. The hose must be pressed at this connection. (see 10.4, items 6, 7 and 22)

The hydraulic hose B is also connected to the RADIUS itself. (see 10.4, item 10)

Item no.	Specification	Remark	Quantity	Order no.
	Override valve electric 1-sided	complete items 2 - 13		CG856.097000
1	Mounting bar standard	complete items 1.1 – 1.5	1	CB856.085000
1.1	Fastening section		1	CA856.085100
1.2	Support section		1	CB856.085200
1.3	Hexagon head screw		1	093312020
1.4	Hexagon head screw		2	093106090
1.5	Hexagon nut		2	098506
2	Flow divider / Return oil manifold	for details see 10.28	1	CA895.381000
3	Valve housing	incl. expander	2	CA895.391101
4	Pressure relief valve with valve housing	complete items 4.1 – 4.2	1	CA895.391200
4.1	Valve housing		1	CA895.391201
4.2	Pressure relief valve		1	CW760.011600
5	Electric parts complete 2 sided	complete incl. items 5.1 – 5.8		CK895.391300
5.1	Magnetic clamp	with hook	1	CW500.010200
5.2	Housing		1	CK895.391310
5.3	Toggle switch		2	CW820.027900
5.4	Signal light LED		2	CW820.028000
5.5	Cable		1	CW830.000100
5.6	Cable fitting		3	CW830.033900
5.7	Plug 3-pin		1	CW830.044200
5.8	Valve connector	incl. cable 4000 mm (157.5")	2	CW830.099900
6	Coupling plug		1	CW720.000200
7	Coupling plug		1	CW720.001000
8	Dust cover		1	CW720.005900
9	Dust cover		1	CW720.006000
10	Straight screw socket		2	CW730.008600
11	Straight screw socket		7	CW730.008800
12	Screw-in fitting		6	CW730.031700
13	Electrovalve 4/2 ways		2	CW760.010900
14	Cable tie black	not shown	14	CW830.063300



Note:

When ordering hydraulic hoses for replacement, measure the length "L" (including pressed fittings) and indicate in mm (Conversion aid: 1" = 25.4 mm).



Note:

When ordering the hydraulic hoses B and C, pay attention to the different lengths to the right and left basic unit.



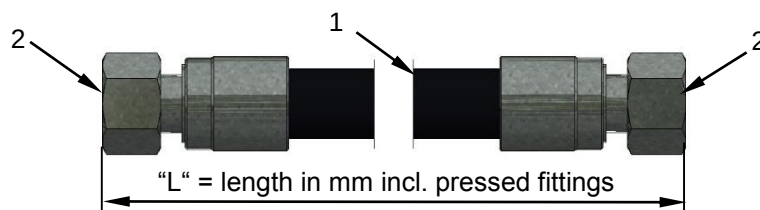
Note:

Item no. 1 Mounting bar for flow divider may differ depending on the mounting frame used:

For HEXAGON frames we use the Mounting bar CC856.085000

For TERACTION frames, an additional CL860.010009 clamping strap and two screw-on sets 093112110 + 098512 + 012315 are required. The order number of the complete group item no. 1 + additional parts is CE856.085000.

For SB frames, the fastening section pos. 1.1 is welded to the frame.

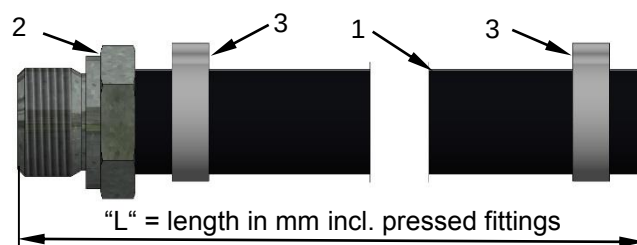


A = Pressure hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 3000 mm (118.1")	„L“ = length in mm	1	CW700.001300
2	Pressed fitting		2	CW710.004200

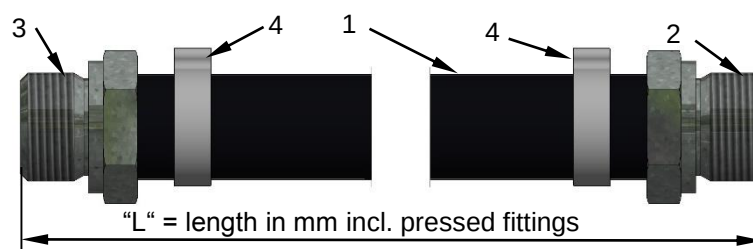
B = Pressure hose RADIUS (2x)

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 3000 mm (118.1")	„L“ = length in mm	1	CW700.001200
2	Pressed fitting		2	CW710.003800



C = Return oil hose RADIUS (2x)

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 4400 mm (173.2")	„L“ = length in mm	1	CW700.001700
2	Threaded hose stem		1	CW011.620800
3	Clip, 1 eye		2	CW500.034100



D = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose 2200 mm (86.6")	„L“ = length in mm	1	CW700.002100
2	Threaded hose stem		1	CW011.620100
3	Threaded hose stem		1	CW011.620900
4	Clip, 1 eye		2	CW500.034000

10.33 Constant flow divider adjustable 1-25 l (0.25-6.60 gal.)

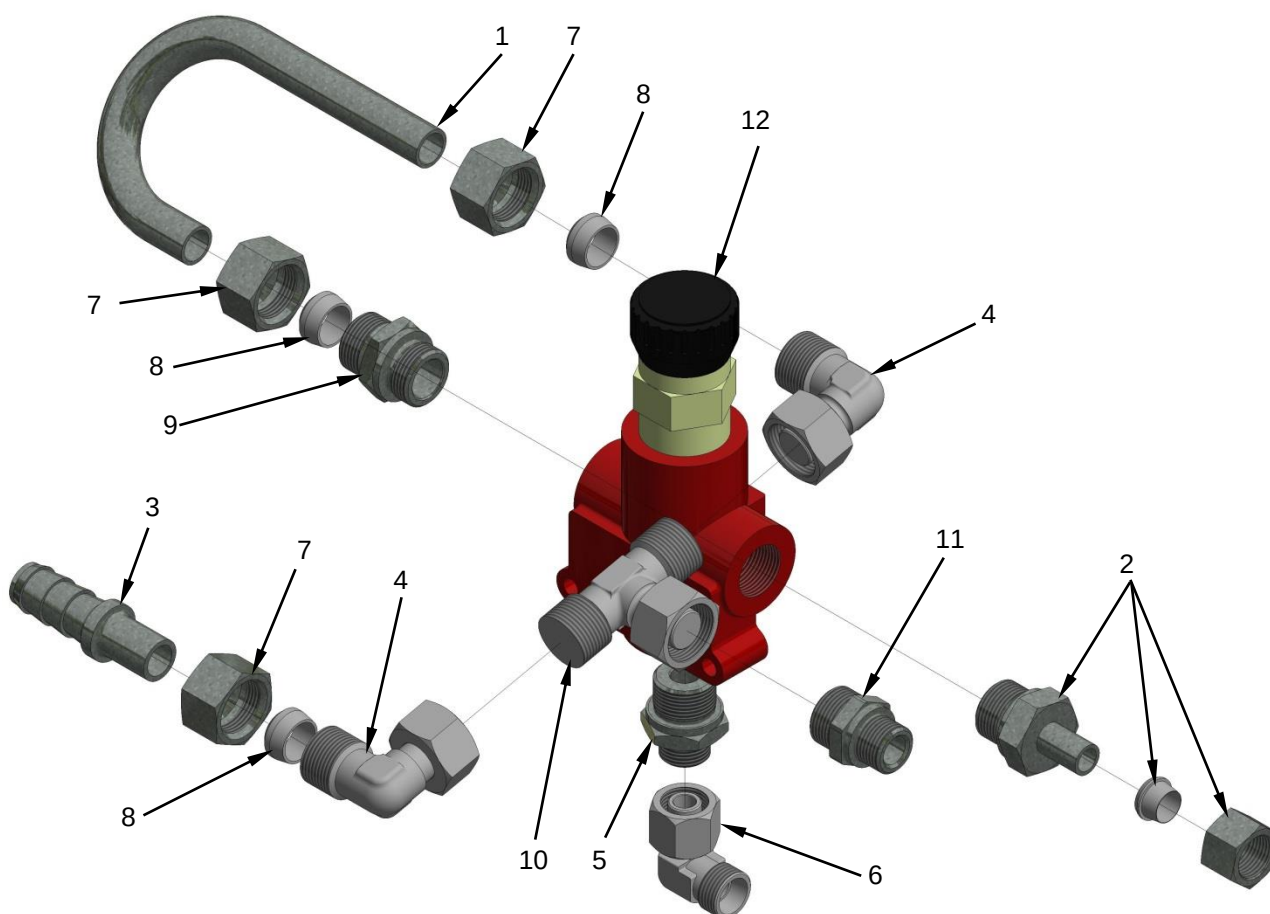


Figure 71 Spare parts Constant flow divider adjustable 1-25 l (0.25-6.60 gal.)

Item no.	Specification	Remark	Quantity	Order no.
	Constant flow regulator adjustable 1-25 l (0.25-6.60 gal.)	complete		CC845.463200
1	Pipe bend		1	CC845.463202
2	Screw-in fitting	from 2018, with nut and ferrule	1	CW730.031800
3	Union nut		1	CW011.600600
4	Straight screw socket	with nut and ferrule	2	CW730.004900
5	Fitting		1	CW730.008600
6	Angular fitting		1	CW730.010400
7	Union nut		3	CW730.012000
8	Ferrule		6	CW730.012100
9	Straight fitting		1	CW730.015000
10	Adjustable T-fitting	with nut and ferrule	1	CW730.077100
11	Straight screw socket		1	CW730.079200
12	Oil flow divider		1	CW760.009100

10.34 Constant flow regulator 0-25 l (6.6 gal.) and 0-50 l (13.2 gal.) with Mounting kit

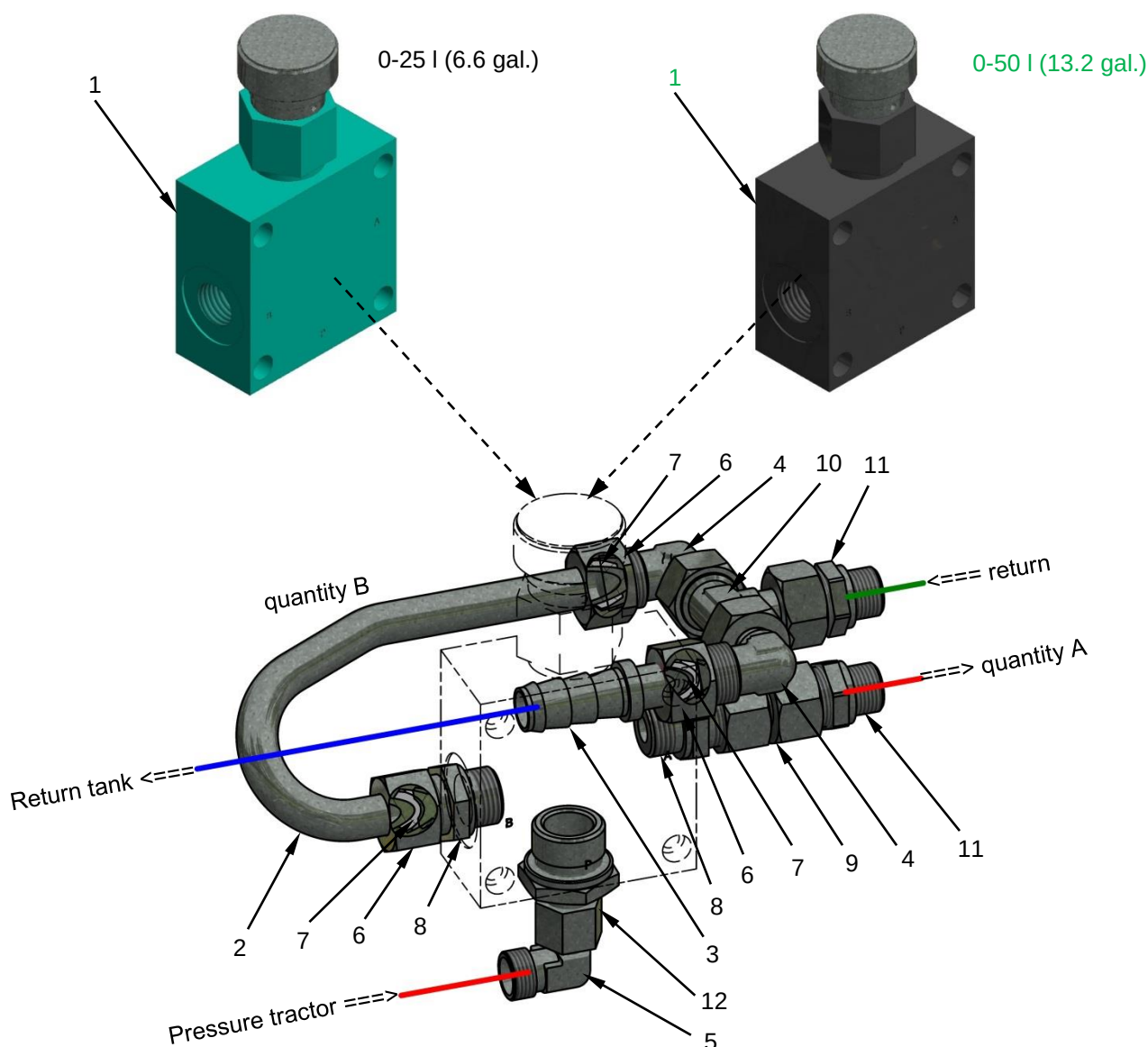


Figure 72 Spare parts Constant flow regulator 0-25 l (6.6 gal.) and 0-50 l (13.2 gal.) with Mounting kit

Item no.	Specification	Remark	Quantity	Order no.
1	Constant flow regulator	for 0-25 l (6.6 gal.)	1	CD845.463201
1	Constant flow regulator	for 0-50 l (13.2 gal.)	1	CD845.463202
	Mounting kit complete	consisting of items no. 2-12	1	CD845.463200
2	Pipe bend		1	CW070.000800
3	Hose stem		1	CW011.600600
4	Angular fitting	with nut and ferrule	2	CW730.004900
5	Angular fitting		1	CW730.010400
6	Union nut		3	CW730.012000
7	Ferrule		3	CW730.012100
8	Straight fitting		2	CW730.014800
9	Double nut		1	CW730.034000
10	Adjustable T-fitting	with nut and ferrule	1	CW730.077100
11	Straight screw socket		2	CW730.079200
12	Straight fitting		1	CW730.100200

10.35 Mounting kit B-quantity disconnectable for flow divider 0-25 l and 0-50 l

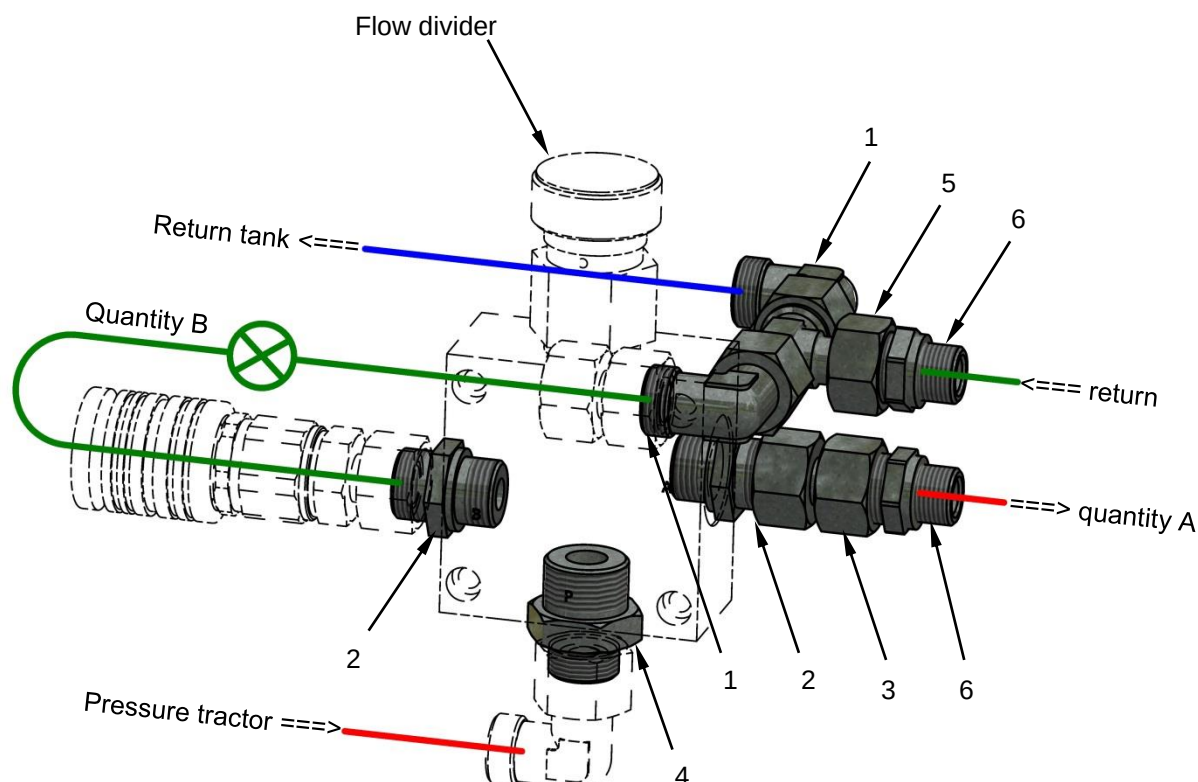


Figure 73 Spare parts Mounting kit B-quantity disconnectable for flow divider 0-25 l and 0-50 l

Item no.	Specification	Remark	Quantity	Order no.
	Mounting kit B-quantity disconnectable for flow divider 0-25 l (6.6 gal.) and 0-50 l (13.2 gal.)	complete		CD845.463300
1	Angular fitting 90°		2	CW730.004900
2	Straight fitting		2	CW730.014800
3	Double nut		1	CW730.034000
4	Straight fitting		1	CW730.034200
5	Adjustable T-fitting		1	CW730.077100
6	Straight screw socket		2	CW730.079200



Note:

Mounting on flow divider CD845.463201 (0-25 l (6.6 gal.)) or CD845.463202 (0-50 l (13.2 gal.)).

10.36 Hosing variant basic device RADIUS: 1-sided mounting

Front, rear and mid mounting

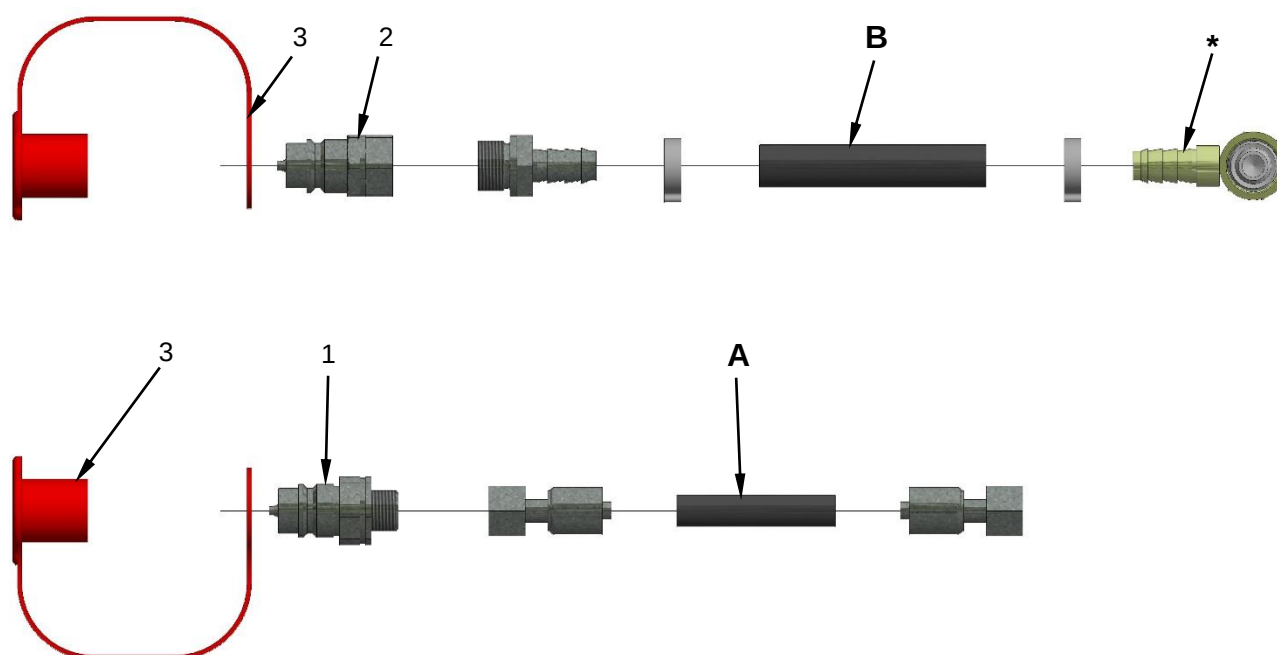
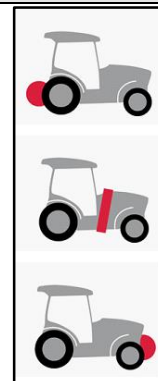
H Hydraulic installation from the tractor to the RADIUS basic unit 1-sided



Note:

The connection marked * is located on the RADIUS itself. The hose must be pressed at this connection. (see 10.4, items 6, 7 and 22)

The hydraulic hose A is also connected to the RADIUS itself. (see 10.4, item 10)

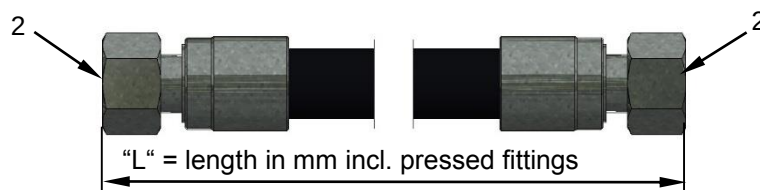


A = Pressure hose RADIUS

B = Return oil hose RADIUS

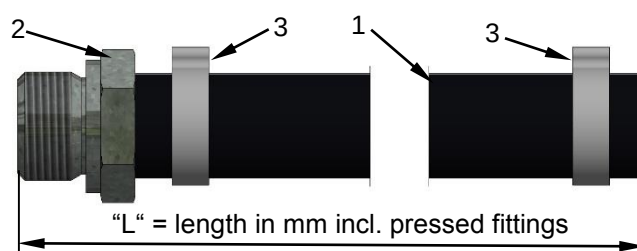
Figure 74 Hosing variant basic device RADIUS: 1-sided mounting

Item no.	Specification	Remark	Quantity	Order no.
1	Coupling plug SVK	standard		CW720.000200
	Coupling sleeve SVK	e.g. for Fendt		CW720.003600
	Coupling plug flat	e.g. for Holder		CW720.000700
2	Coupling plug SVK	standard		CW720.001000
	Coupling sleeve SVK	e.g. for Fendt		CW720.000600
	Coupling plug flat	e.g. for Holder		CW720.004200
3	Dust cover for coupling plug SVK	standard		CW720.005900 (CW720.000600)
	Dust cover for coupling sleeve SVK	e.g. for Fendt		CW720.007900
	Dust cover for coupling plug flat	e.g. for Holder (pressure hose)		CW720.005200
	Dust cover for coupling plug flat	e.g. for Holder (return oil hose)		CW720.005300
	Pressure hose length 1700 mm (66.9")	complete hose A + items 1, 3		CW700.020600
	Pressure hose length 2000 mm (78.7")	complete hose A + items 1, 3		CW700.021500
	Pressure hose length 2800 mm (110.2")	complete hose A + items 1, 3		CW700.021900
	Pressure hose length 2500 mm (98.4")	complete hose A + items 1, 3		CW700.023000



A = Return oil hose RADIUS

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	"L" = length in mm	1	CW700.001200
2	Pressed fitting		2	CW710.003800



B = Return oil hose RADIUS

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	"L" = length in mm	1	CW700.001700
2	Threaded hose stem		1	CW011.620700
3	Clip 1-eye		2	CW500.034000



Note:

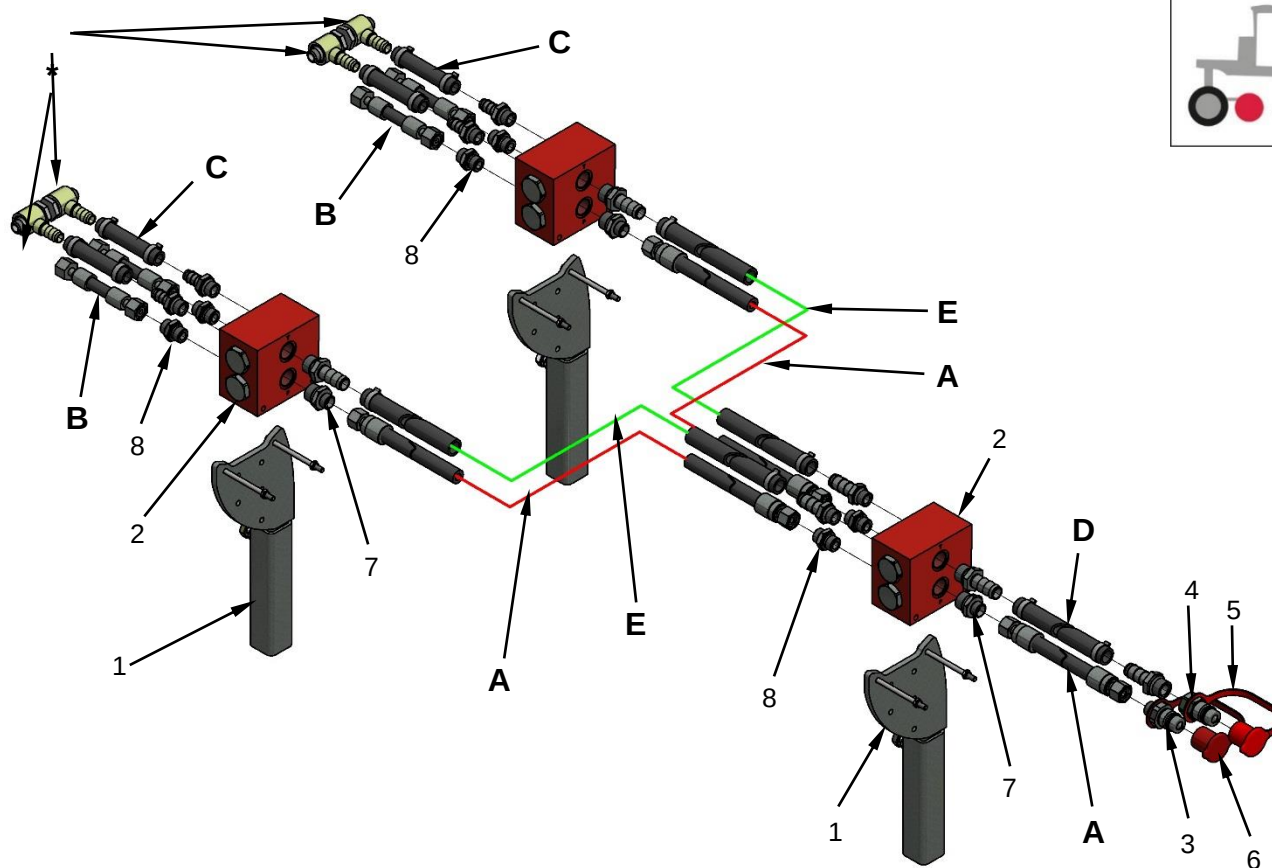
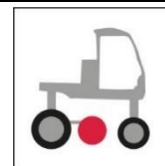
When ordering hydraulic hoses for replacement, measure the length "L" (including pressed fittings) and indicate in mm (Conversion aid: 1" = 25.4 mm).



Note:

When ordering the hydraulic hoses, pay attention to the different lengths to the right and left basic unit.

10.37 Hosing variant 2 pairs of RADIUS on high clearance tractor



A = Pressure hose
B = Pressure hose RADIUS
C = Return oil hose RADIUS
D = Return oil hose
E = Connecting return oil hose

Figure 75 Hosing variant 2 pairs of RADIUS on high clearance tractor

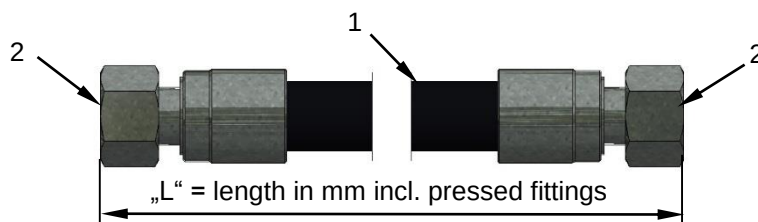
Item no.	Specification	Remark	Quantity	Order no.
1	Mounting bar for flow divider		3	CB856.085000
2	Flow divider / Return oil manifold	for details see 10.28	3	CA895.381000
3	Coupling plug SVK		1	CW720.000200
4	Coupling plug SVK		1	CW720.001000
5	Dust cover for coupling plug SVK		1	CW720.005900 (CW720.006000)
6	Dust cover		1	CW720.006000
7	Straight screw socket		3	CW730.008600
8	Straight screw socket		6	CW730.008800



Note:

The connection marked * is located on the RADIUS itself. The hose must be pressed at this connection. (see 10.4, items 6, 7 and 22)

The hydraulic hose B is also connected to the RADIUS itself. (see 10.4, item 10)

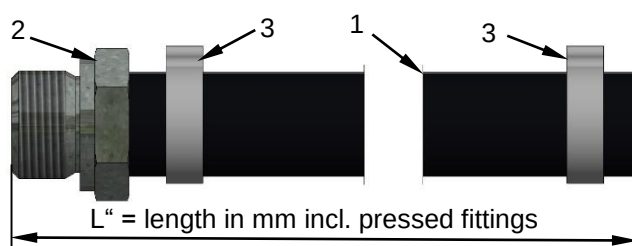


A = Pressure hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.001300
2	Pressed fitting		2	CW710.004200

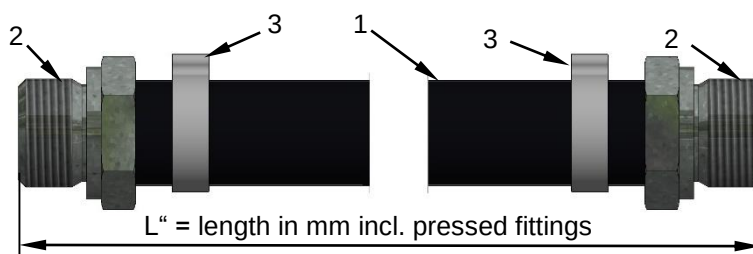
B = Pressure hose RADIUS

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.001200
2	Pressed fitting		2	CW710.003800



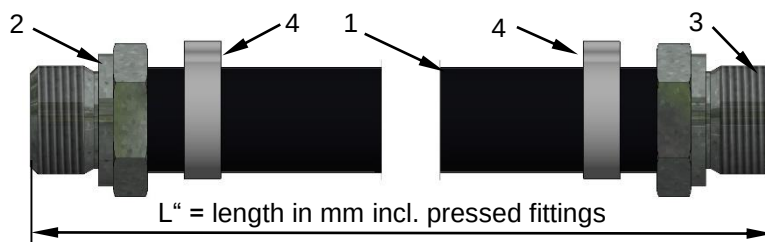
C = Return oil hose RADIUS

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.001700
2	Threaded hose stem		1	CW011.620800
3	Clip 1-eye		2	CW500.034000



D = Return oil hose

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.002100
2	Threaded hose stem		2	CW011.620100
3	Clip 1-eye		2	CW500.034000



E = Return oil hose – connection

Item no.	Specification	Remark	Quantity	Order no.
1	Hydraulic hose	„L“ = length in mm	1	CW700.002100
2	Threaded hose stem		1	CW011.620100
3	Threaded hose stem		1	CW011.620900
4	Clip 1-eye		2	CW500.034000

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