

Instruction Manual



SCB CR

Sugarcane Subsoiler Baldan Remote Control

 **BALDAN**

▪ Presentation

We appreciate the preference and would like to congratulate you for the excellent choice you just made, since you have acquired a product manufactured with **BALDAN IMPLEMENTOS AGRÍCOLAS S/A** technology.

This manual will guide you through the procedures required since its acquisition until operational procedures of usage, safety and maintenance.

BALDAN assures that it has delivered this implement for resale in full and in perfect conditions.

Resale was responsible for the custody and maintenance during the period in its possession, and also for the assembly, retightening, lubrication and overhaul.

During the technical delivery, dealer should guide the user regarding maintenance, safety, their obligations in eventual technical assistance, strict compliance with the warranty term and reading the instructions manual.

Any technical assistance request while in warranty should be made to the dealer from whom you have purchased it.

We reiterate the need for a careful read of the warranty certificate and compliance of all items from this manual, because by doing so you will increase the life of your device.



Instruction Manual



SCB CR

Sugarcane Subsoiler Baldan Remote Control

BALDAN IMPLEMENTOS AGRÍCOLAS S/A.
CNPJ: 52.311.347/0009-06
Insc. Est.: 441.016.953.110



Scan the QR Code on the
identification plate of your
device and access this
Instruction Manual online.



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▪ Baldan Warranty

BALDAN IMPLEMENTOS AGRÍCOLAS S/A ensures the dealer normal performance of the implement for a period of six (6) months as of the delivery date on the retail invoice to the first final consumer.

During this period, **BALDAN** undertakes to repair defects in material and/or of manufacture of its liability, including labor, freight and other expenses of the dealer's liability.

In the warranty period, request and replacement of eventual defective parts shall be made to the dealer of the area, who will submit the faulty piece to **BALDAN** analysis.

When this procedure is not possible and the resolving capacity of the dealer is exhausted, the dealer will request the support of **BALDAN** Technical Assistance through a specific form distributed to dealers.

After analyzing the replaced items by **BALDAN** Technical Assistance, and concluding that it is not a warranty, then the dealer will be responsible for the costs related to the replacement; as well as material expenses, travel including accommodation and meals, accessories, lubricant used and other expenses arising from the call out to Technical Assistance, and **BALDAN** company is authorized to carry the respective invoice in the name of the resale.

Any repairment carried in the product within the dealer warranty deadline will only be authorized by **BALDAN** upon previous budget presentation describing parts and workforce to be executed.

The product is excluded from this term if it is repaired or modified by representatives not belonging to the **BALDAN** dealer network, as well as the application of non-genuine parts or components to the user's product.

This warranty is void where it is found that the defect or damage is caused by improper use of the product, failure to follow instructions or inexperience of the operator.

It is agreed that this warranty does not cover tires, polyethylene tanks, cardan, hydraulic components, etc., which are equipment guaranteed by their manufacturers.

Manufacturing and/or material defects, object of this warranty term, will not constitute, under any circumstances, grounds for termination of a purchase agreement, or for indemnification of any nature.

BALDAN reserves the right to change and/or perfect the technical characteristics of its products, without previous notice, and without obligation to proceed in the same way with the products previously manufactured.

▪ General Information

• To the owner

BALDAN IMPLEMENTOS AGRÍCOLAS S/A, is not responsible for any damaged caused by accident due to usage, transportation, or in the improper or incorrect transportation of its implement, whether by negligence and/or inexperience of any person.

Only people with complete knowledge of the tractor and the implement should carry their transportation and operation.

BALDAN is not responsible for any damaged caused in unpredictable or unrelated situations to the normal use of the implement.

The incorrect handling of this equipment may result in severe or fatal accidents. Before running the equipment, carefully read the instructions contained in this manual. Make sure that the person responsible for the operation is instructed as the correct and safe handling. Also make sure that the operator has read and understood the instructions manual of the product.

ATTENTION

NR-31 - SAFETY AND HEALTH AT WORK IN AGRICULTURE, LIVESTOCK FARMING, FORESTRY, FOREST EXPLORATION AND AQUACULTURE.

This Regulatory Standard has the purpose of establishing precepts to be observed in the organization and work environment, compatible to the planning and development of agriculture, livestock, forestry, forest exploitation and aquaculture with safety and health and work environment.

MR. OWNER OR OPERATOR OF THE EQUIPMENT.

Read and carefully comply with provisions of NR-31.

For more information, refer to the side and read NR-31 in full.
<http://portal.mte.gov.br/legislacao/normas-regulamentadoras-1.htm>

▪ Safety rules

• To the operator



THIS SYMBOL INDICATES IMPORTANT SAFETY WARNING. IN THIS MANUAL, WHENEVER YOU FIND IT, READ THE FOLLOWING MESSAGE CAREFULLY AND PAY ATTENTION TO THE POSSIBILITY OF PERSONAL ACCIDENTS.

ATTENTION



Carefully read the instructions manual to learn about the recommended safety practices.

ATTENTION



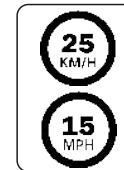
Only start to operate the tractor when you are properly seated and with the seat belt locked.

ATTENTION



Do not perform adjustments while SCB-CR is running. When performing any service on SCB-CR, switch off the tractor first. Use appropriate tools.

ATTENTION



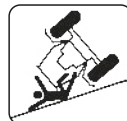
When transporting the SCB-CR, do not exceed the speed of 25 Km/h or 15 MPH, avoiding risks of damages and accidents.

ATTENTION



Do not transport people on the tractor or over the equipment.

ATTENTION



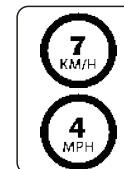
There are risks of severe injuries due to tipping when working in sloped terrains. Do not over speed.

ATTENTION



When looking for possible leaks in hoses, use a cardboard or wood, never use your hands. Avoid fluid incision into the skin.

ATTENTION



When working with the SCB-CR, do not exceed the speed of 7 Km/h or 4 MPH, avoiding risk of damages and accidents.

ATTENTION



Do not work with the tractor if the front has insufficient ballast to the rear equipment. Should there be a trend to lift, add weights or ballasts to the front or the front wheels.

ATTENTION



Before performing any maintenance in your equipment, make sure it is properly stopped. Avoid being run over.

ATTENTION



Always maintain places of access and work free of residues such as oil or grease to prevent accidents.

ATTENTION



Before commencing work or transportation to SCB-CR, check for any nearby persons or obstructions.

▪ Safety rules

ATTENTION

FOLLOW ALL RECOMMENDATIONS, WARNINGS, AND RECOMMENDED SAFETY PRACTICES IN THIS MANUAL, UNDERSTAND THE IMPORTANCE OF YOUR SAFETY. ACCIDENTS MAY CAUSE DISABILITY OR EVEN DEATH. REMEMBER, ACCIDENTS CAN BE AVOIDED!

ATTENTION



Avoid heating parts near fluid lines.

Heating can lead to material brittleness, rupture, and leakage of pressurized fluid, which can cause burns and injuries.

ATTENTION



Improper waste disposal affects the environment and ecology as it will pollute rivers, canals, or the soil. Find out how to properly recycle or dispose of waste.

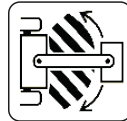
PROTECT THE ENVIRONMENT!

ATTENTION



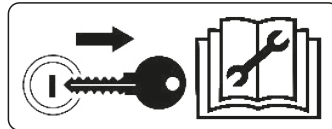
Be careful when handling the SCB-CR support foot, as there is a risk of accidents.

ATTENTION



Keep the articulation area free while the SCB-CR is in operation. In sharp turns, keep the tractor wheels from touching the header.

ATTENTION



Remove the ignition key before performing any maintenance on the SCB-CR. Protect yourself from injuries or death caused by an unforeseen start up of the SCB-CR.

If the SCB-CR is not properly engaged, do not start the tractor.

ATTENTION



Never weld the wheel with a mounted tire, as heat can increase air pressure and cause the tire to explode.

When inflating a tire, position yourself next to the tire, never in front of it. When inflating the tire, always use a containment device (inflation cage).

ATTENTION



Pressurized hydraulic oil under may cause serious injury if leaks occur. Periodically check the condition of the hoses. If there is evidence of leaks, replace them immediately. Before connecting or disconnecting hydraulic hoses, relieve system pressure by activating the control with the tractor off.

▪ Safety rules

• PPE Equipment



ATTENTION

DO NOT WORK WITH SCB-CR WITHOUT FIRST WEARING PPES (SAFETY EQUIPMENT). IGNORING THIS WARNING MAY CAUSE DAMAGES TO HEALTH, SEVERE ACCIDENTS OR DEATH.

When performing certain procedures with the **SCB-CR**, place the following Safety Equipment (PPE) below:



IMPORTANT

The safety practice must be performed in all stages of working with the SCB-CR, thus avoiding accidents such as impact of objects, fall, noise, cuts and ergonomics, that is the person responsible for operating the SCB-CR is subject to internal and external damage to your body.



OBSERVATION

All PPEs (Safety Equipment) should have certificate of authenticity.

▪ Warnings

- ⚠ When operating with the SCB-CR, do not allow people to remain too close or stand on it.
- ⚠ When servicing the machine, wear PPE.
- ⚠ Before connecting or disconnecting hydraulic hoses, relieve system pressure by activating the control with the tractor off.
- ⚠ Periodically check the condition of the hydraulic hoses. If there is evidence of oil leakage, replace the hose immediately as the oil works under high pressure and can cause serious accidents.
- ⚠ Do not wear loose clothes, as they may get caught in the SCB-CR.
- ⚠ When starting the tractor engine, be properly seated in the operator's seat and aware of the correct and safe handling of both the tractor and the SCB-CR. Always put the shift lever in the neutral position, disconnect the control gear from the PTO and put the hydraulic control in the neutral position.
- ⚠ Do not start the tractor engine indoors without adequate ventilation as exhaust fumes are harmful to health.
- ⚠ When maneuvering the tractor to engage the SCB-CR, make sure you have the necessary clearance and that no one is too close, always maneuver at idle speed and be prepared to brake in an emergency.
- ⚠ Do not make adjustments while the SCB-CR is running.
- ⚠ When working on slopes, be careful to always maintain the necessary stability. In the event of an imbalance start reduce acceleration, turn the wheels to the slope side the of the terrain and never raise the SCB-CR.
- ⚠ Always drive the tractor at safety compatible speeds, especially when working on rough or sloping terrain, always keep the tractor hitched.
- ⚠ When driving the tractor on roads, keep the brake pedals interconnected.
- ⚠ Do not work with the tractor with a light rear. If the rear tends to lift, add more weights to the rear wheels.
- ⚠ When leaving the tractor, shift to neutral and set the parking brake. Never leave the SCB hitched to the tractor with the hydraulic system in the raised position.
- ⚠ Any and all maintenance on the SCB-CR must be carried out while it is parked and the tractor turned off.
- ⚠ Do not drive on highways, especially at night. Use warning signs all the way.
- ⚠ To travel with the SCB-CR on highways, contact the traffic agencies.

▪ Warnings

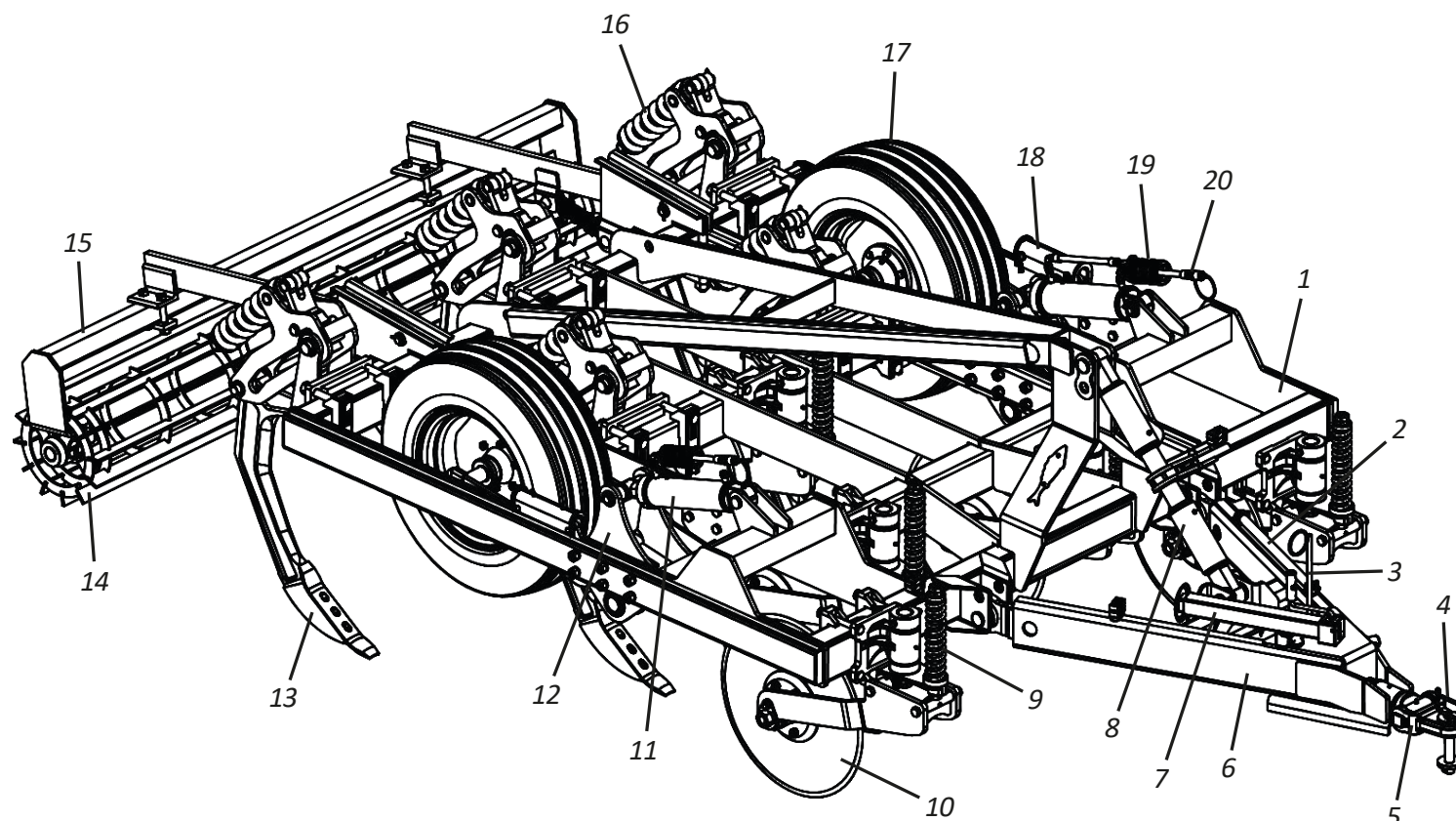
- ⚠ Do not allow the SCB-CR to be used by untrained people, that is, who do not know how to operate it properly.
- ⚠ Do not carry or work with the SCB-CR near obstacles, rivers, or streams.
- ⚠ Transporting people on self-propelled machines and implements is prohibited.
- ⚠ Changes to the original characteristics of the SCB-CR are not allowed, as they may alter safety, operation, and affect service life.
- ⚠ Read all safety information in this manual and in the SCB-CR carefully.
- ⚠ Read or explain all procedures in this manual to an operator who cannot read.
- ⚠ Always check that the SCB-CR is in perfect condition. For irregularities that may interfere with the operation of the SCB, provide for proper maintenance prior to any work or transport.
- ⚠ Maintenance and especially inspection in risk areas of the SCB-CR, must only be carried out by a trained or qualified worker, observing all safety guidelines. Before starting maintenance, disconnect all drive systems from the SCB-CR.
- ⚠ Periodically check all components of the SCB-CR before using it.
- ⚠ According to the equipment used and the working conditions in the country or in areas of maintenance, precautions are necessary. Baldan cannot directly control precautions, so it is the responsibility of the owner to put safety procedures into practice while working with SCB-CR.
- ⚠ Check the minimum tractor power recommended for each SCB-CR model. Only use tractors with power and ballast compatible with the load and terrain topography.
- ⚠ When transporting the SCB-CR, travel at terrain-compatible speeds and never exceed 25 km/h, as this reduces maintenance and therefore extends the life of the SCB-CR.
- ⚠ Alcoholic beverages or some medications may cause loss of reflexes and change the operator's physical condition. Therefore, never operate the SCB while using these substances.
- ⚠ Read or explain all procedures in this manual to a user who cannot read.

If in doubt, contact After Sales.
Telephone: 0800-152577 / E-mail: posvenda@baldan.com.br

■ Components

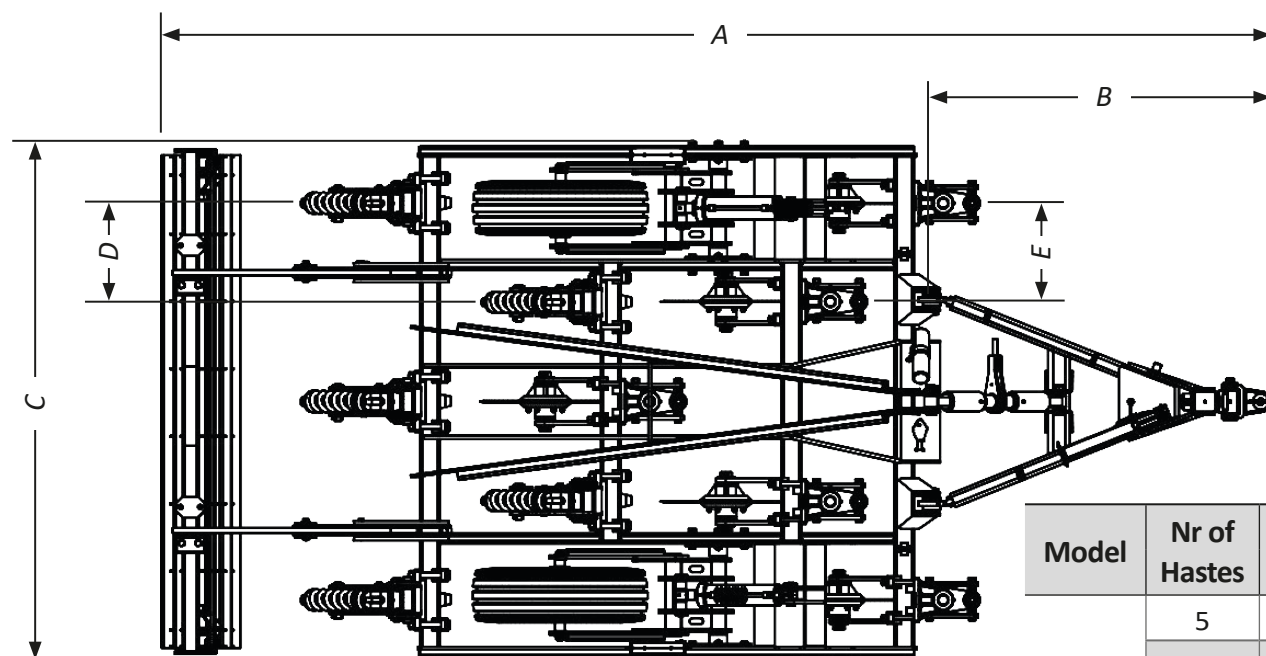
• SCB-CR - Sugarcane Subsoiler Baldan Remote Control

1. Chassis
2. Regulator tube
3. Hose support
4. Lynch pin
5. Hitch shackle
6. Coupling head
7. Lift support
8. Header regulator
9. Disc trolley spring
10. Full cutting disc
11. Hydraulic cylinder
12. Wheel articulation support
13. Tyne with automatic trip and reset
14. Lump breaking roller
15. Lump breaking roller sway bar
16. Tyne spring
17. Tyre
18. Lock
19. Limiter
20. Hydraulic hose

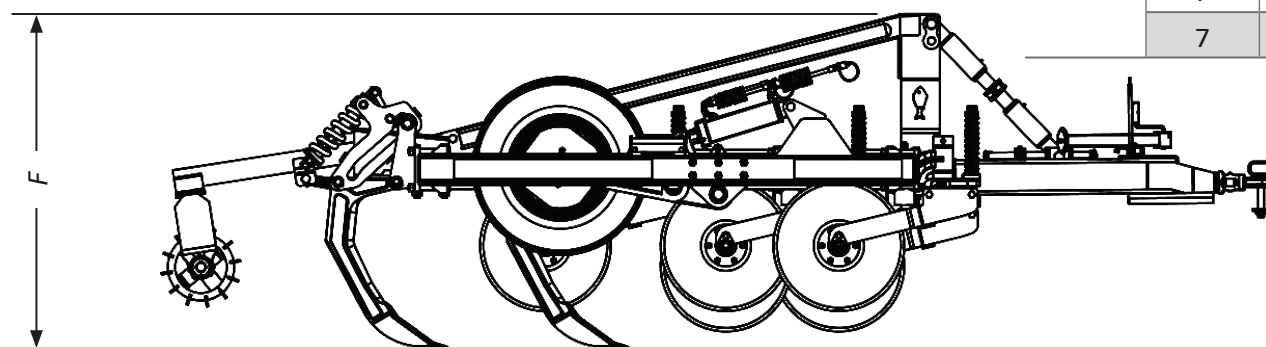


■ Dimensions

• SCB-CR - Sugarcane Subsoiler Baldan Remote Control



Model	Nr of Hastes	Coupling types	Measurements				
			A (mm)	B (mm)	C (mm)	D e E (mm)	F (mm)
SCB-CR	5	Short	5594	1711	2620	440 / 460 / 500	1692
	5	Long	6515	2632	2620	440 / 460 / 500	1692
	7	Long	6515	2632	3620	460 / 500	1692
	7	Short	5594	1711	3620	460 / 500	1692



■ Specifications

• SCB-CR - Sugarcane Subsoiler Baldan Remote Control

Model	Nr of flejes	Nr of discs	Coupling head	Chassis width (mm)	Working depth (mm)	Spacing (mm)	Working width (mm)	Cutting disc	Approximate weight (Kg)	Tractor power (CV)	Tyres
SCB-CR	5	5	Short	2620	550	440 / 460 / 500	2250 / 2500	26" x 6,00	3115	230 to 250	10.5/80-18 (10 Ply) Super Flotation
	5	5	Long	2620		440 / 460 / 500	2250 / 2500		3188	230 to 250	
	7	7	Long	3620		460 / 500	3150 / 3500		3983	320 to 350	
	7	7	Short	3620		460 / 500	3150 / 3500		3910	320 to 350	

Baldan reserves the right to change and or improve the technical characteristics of its products, without prior notice, and without obligation to do so with previously products manufactured. Technical specifications are estimates and reported under normal working conditions.

INTENDED USE OF THE SCB-CR

The **SCB-CR** was developed to break the deepest compacted layers.

The **SCB-CR** must be driven and operated only by a properly instructed operator.

PROHIBITED USE THE OF THE SCB-CR

To prevent damage, serious accident, or death, DO NOT carry people on any part of the **SCB-CR**.

The **SCB-CR** must NOT be used by an inexperienced operator who does not know all the driving, command, and operation techniques.

■ Assembly

The **SCB-CR** leaves the factory disassembled. To assemble it, follow the instructions below:

- ⚠ The **SCB-CR** must be assembled by the reseller, by people trained and qualified for this work.
- ⚠ Do not wear loose clothing, as they may get caught in the **SCB-CR**. Use PPE (Safety Equipment).
- ⚠ The most practical method to mount the subsoiler is to use easels or similar equipment.

■ Assembly

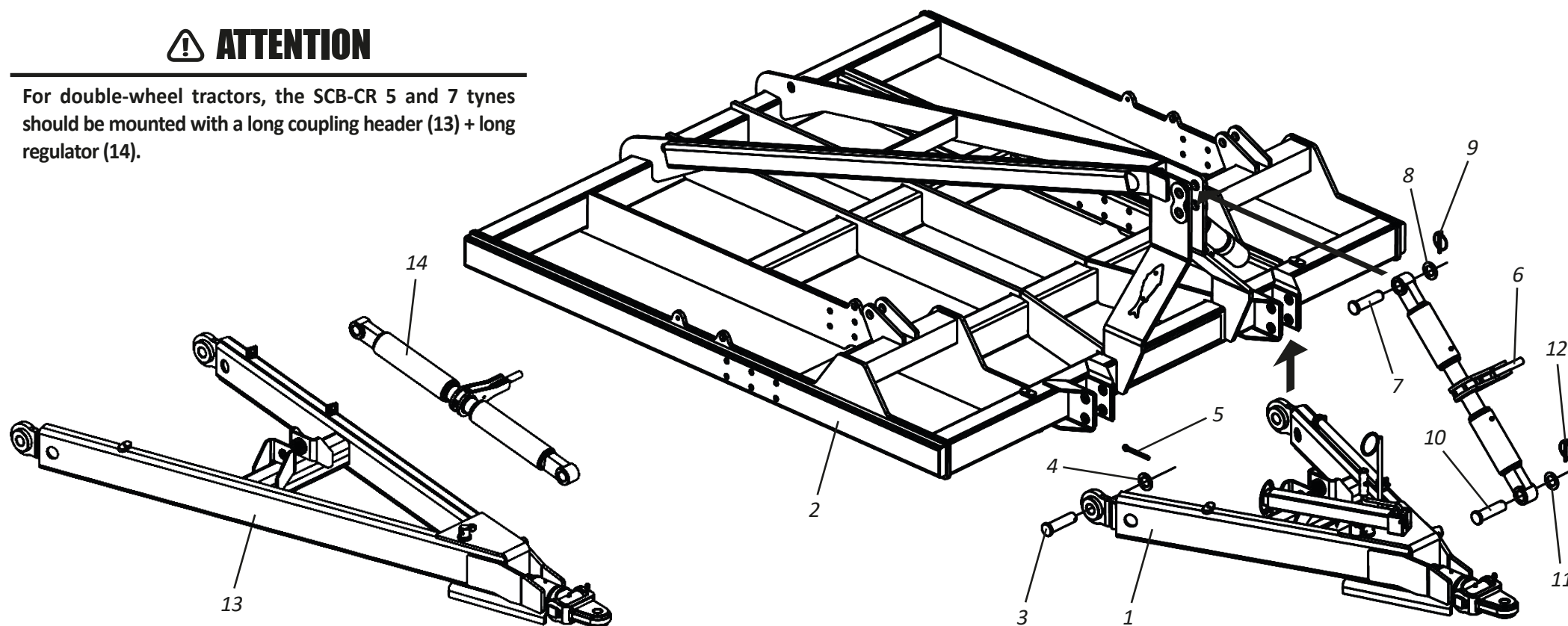
• Mounting the coupling head

To assemble the hitch header (1), proceed as follows:

- 01** - Couple the coupling head (1) to the central frame (2), fastening with the pins (3), flat washers (4) and cotter pin (5).
- 02** - Then, insert the regulator (6) in the frame (2) fastening with the pins (7), flat washers (8), and ring lock (9).
- 03** - Then, insert the regulator (6) in the header (1) fastening with the pins (10), flat washers (11), and ring lock (12).

ATTENTION

For double-wheel tractors, the SCB-CR 5 and 7 tynes should be mounted with a long coupling header (13) + long regulator (14).



■ Assembly

• Mounting the wheel shaft

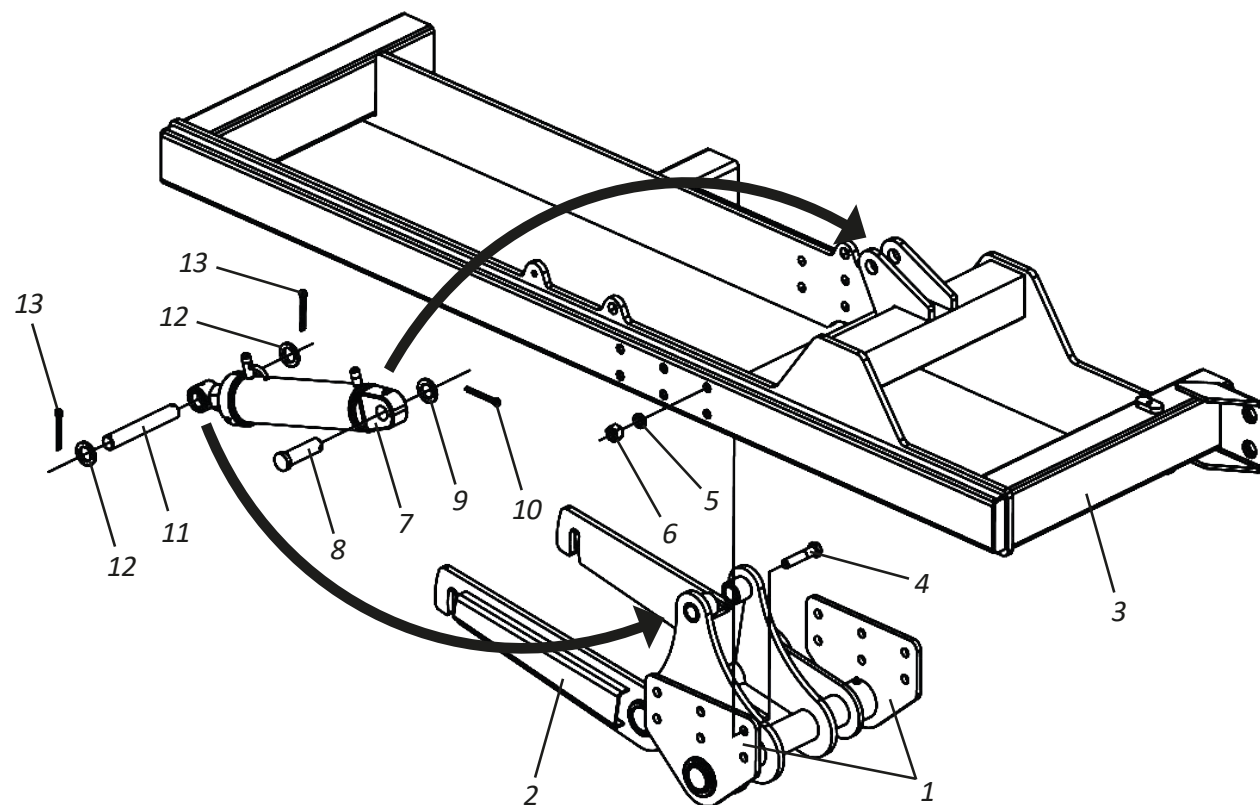
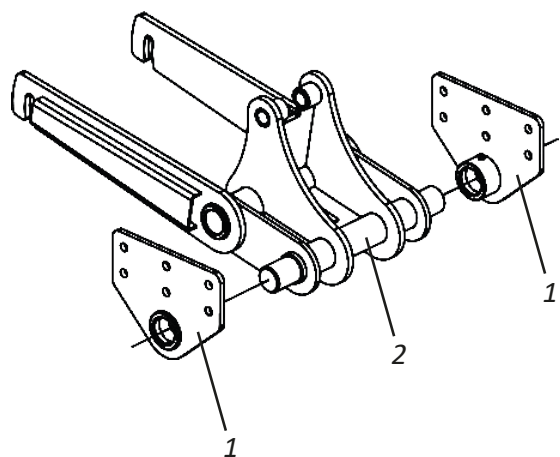
To assemble the wheel shaft (1), proceed as follows:

01 - Fasten the plates (1) on the wheel support (2).

02 - Then, fasten the plates (1) on the chassis (3), using the screws (4), pressure washers (5), and nuts (6).

03 - Then, couple the base of the hydraulic cylinder (7) to the chassis (3), through the pin (8), flat washer (9), and cotter pin (10).

04 - Finish by fixing the hydraulic cylinder rod (7) to the wheel support (2), through the pin (11), flat washers (12) and cotter pin (13).



NOTE

Repeat the procedure above to assemble the other tire.

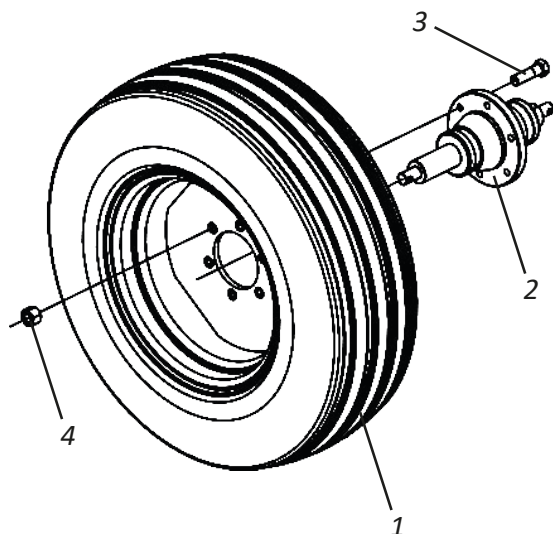
■ Assembly

• Mounting the tires

To mount the tires (1), proceed as follows:

01 - Couple the tire (1) on the hub (2) by fixing it using the screws (3) and nuts (4).

02 - Then, insert the tire (1) into the wheel support (5) and fasten the hub (2) through the plates (6) and nuts (7).

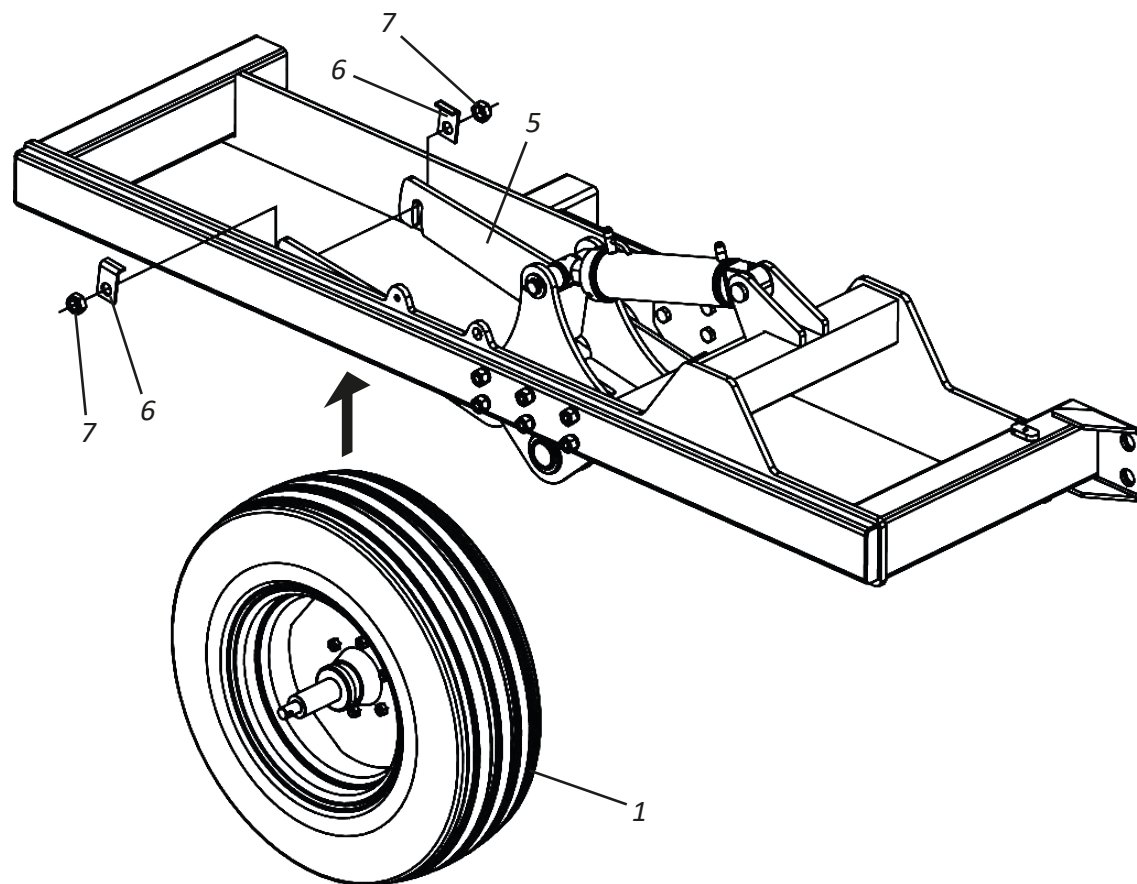


ATTENTION

Check the proper tire calibration on page 36.

NOTE

Repeat the procedures above to assemble the other tire.

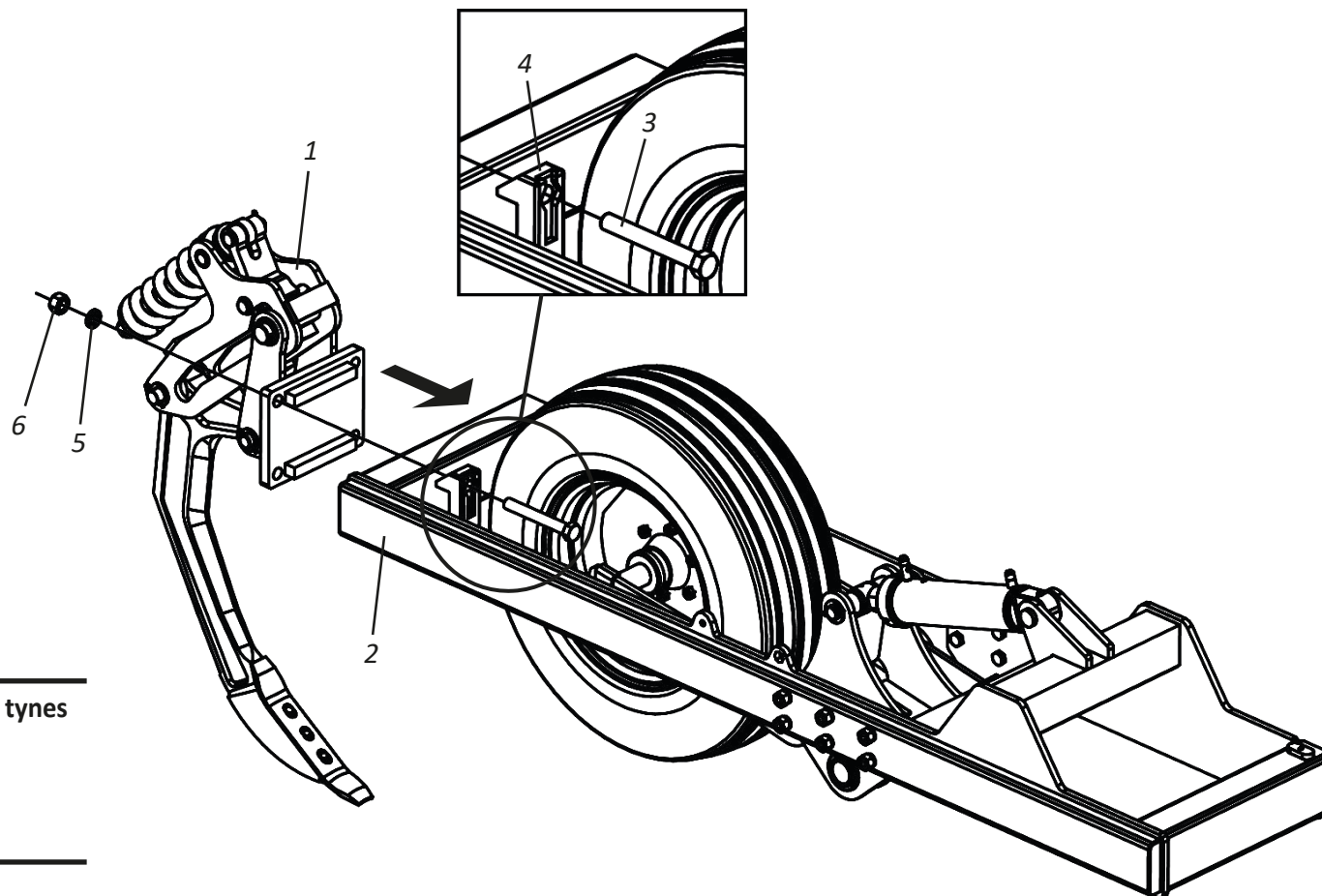


▪ Assembly

• Mounting the tynes

To assemble the tyne (1), proceed as follows:

01 - Couple the tyne (1) to the frame (2), fastening through the screws (3), fastening support (4), lock washers (5), and nuts (6).



ATTENTION

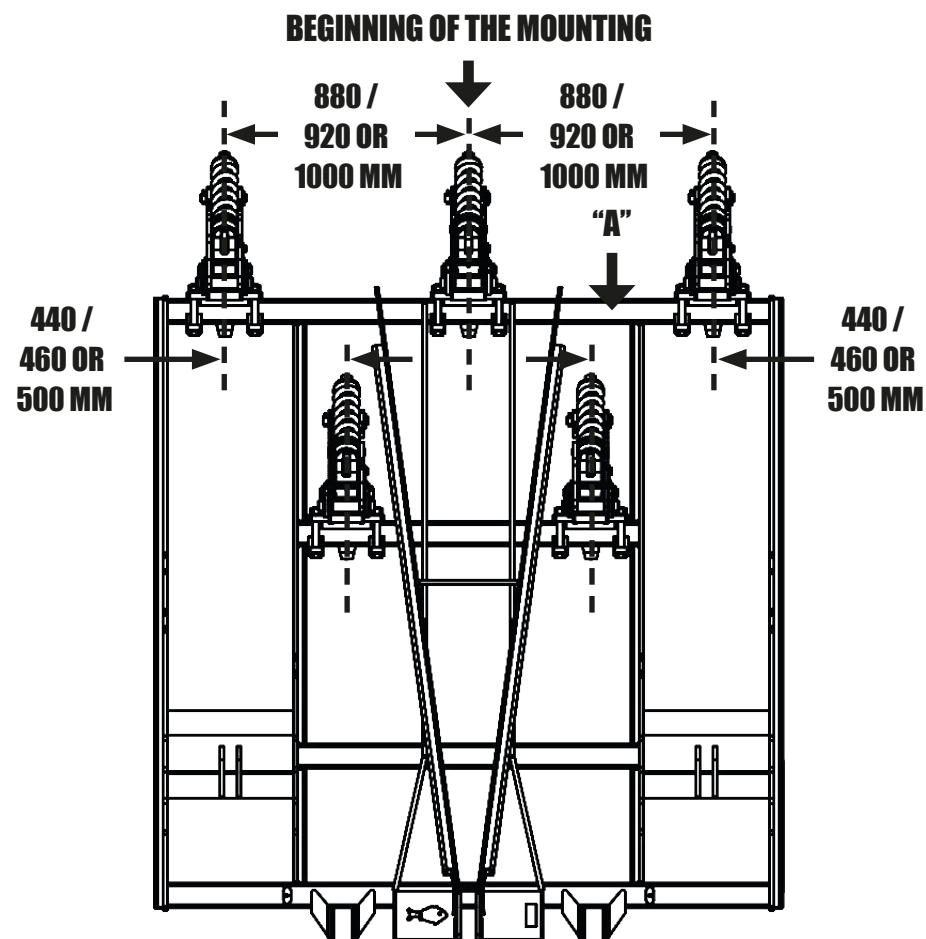
Check the following page for the correct way of mounting tynes for each SCB-CR model.

NOTE

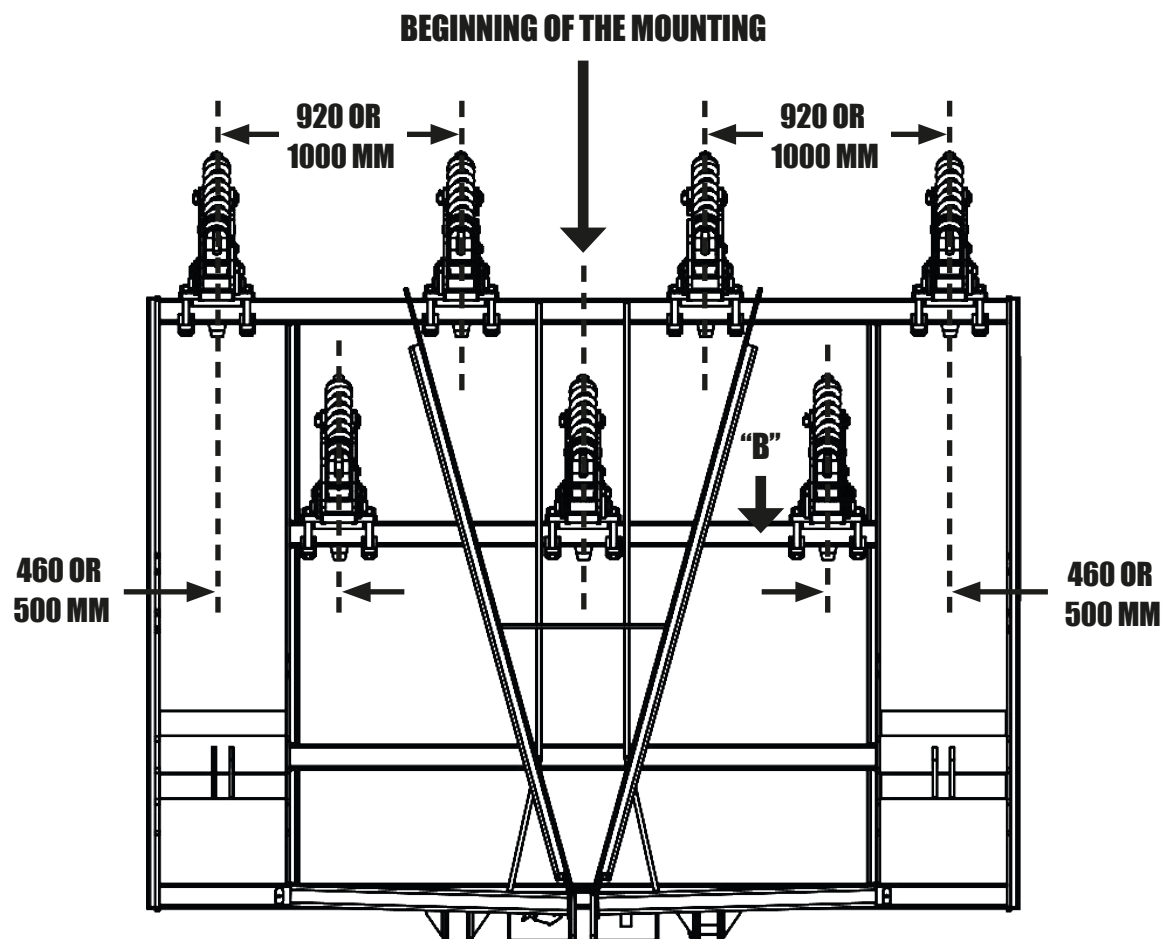
Repeat the procedures above to mount the other tynes.

Assembly

- Mounting the tynes - SCB-CR 5 tynes



- Mounting the tynes - SCB-CR 7 tynes



⚠ ATTENTION

On the SCB-CR 5 tynes, start assembling the tynes at the center of the "A" bar and for the SCB-CR 7 tynes at the center of the "B" bar then the others.

📌 NOTE

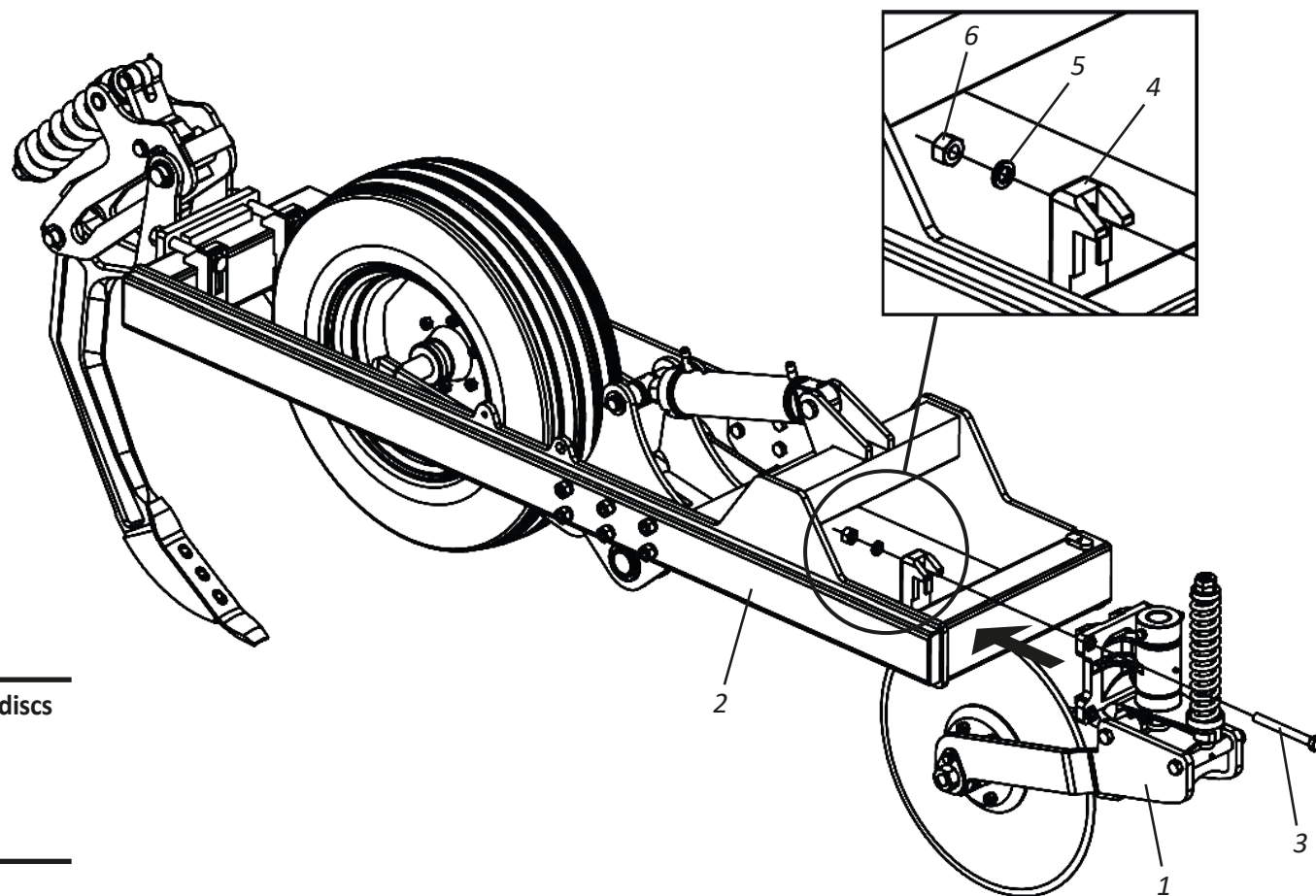
The front section of the subsoiler must contain fewer tynes than the rear section.

■ Assembly

• Mounting the discs

To mount the cutting disc (1), proceed as follows:

01 - Couple the cutting disc (1) to the frame (2), fastening through the screws (3), fastening support (4), lock washers (5), and nuts (6).



ATTENTION

Check the following page for the correct way of mounting the discs for each SCB-CR model.

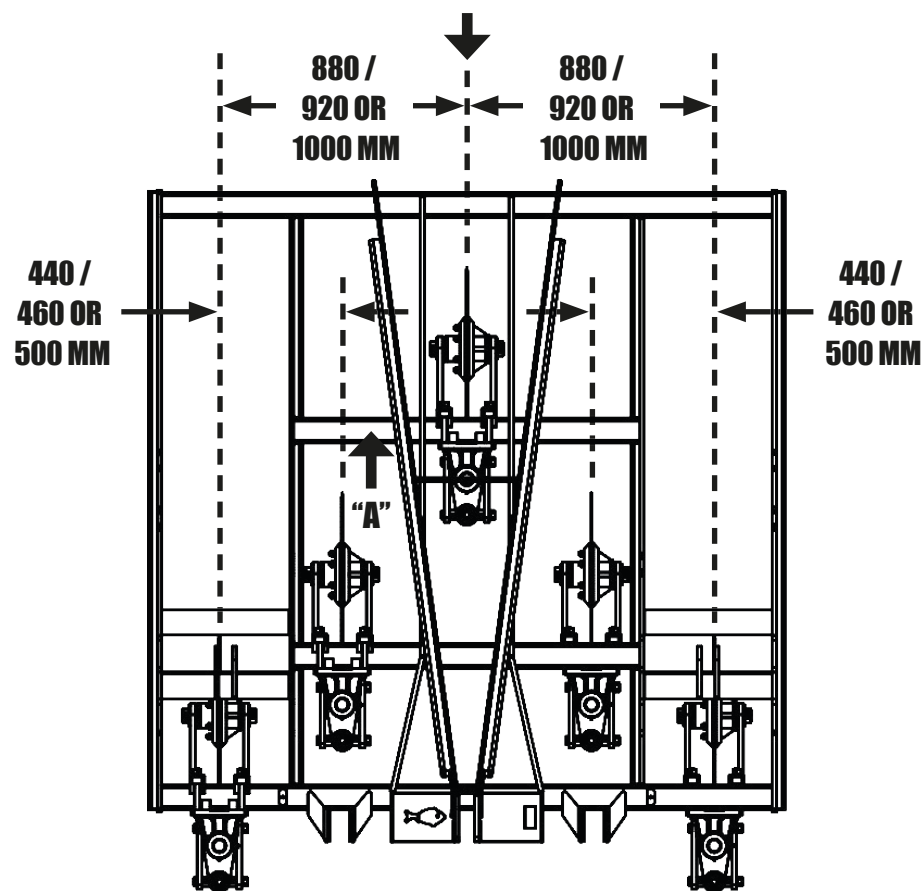
NOTE

Repeat the procedures above to mount the other discs.

■ Assembly

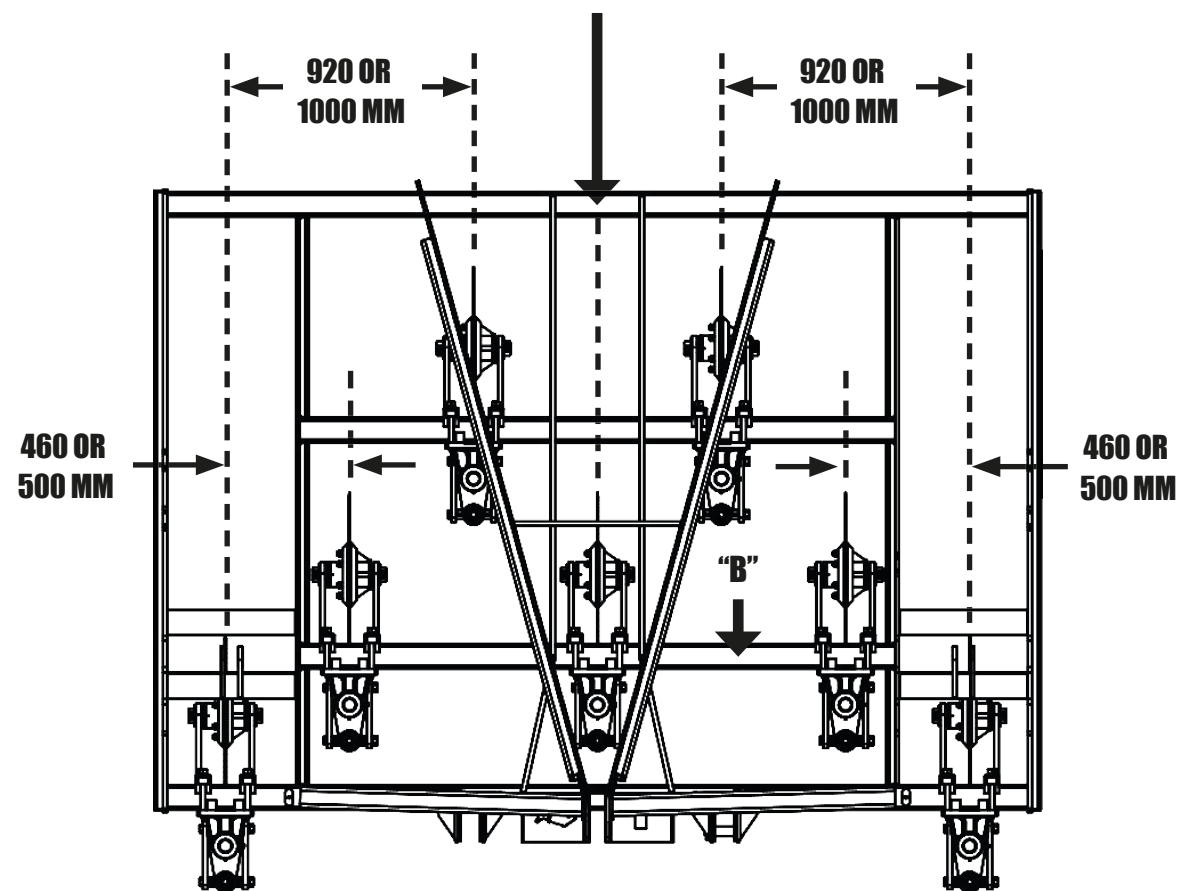
- Mounting the discs - SCB-CR 5 tynes

BEGINNING OF THE MOUNTING



- Mounting the discs - SCB-CR 7 tynes

BEGINNING OF THE MOUNTING



⚠ ATTENTION

On the SCB-CR 5 tynes, start assembling the discs at the center of the "A" bar and for the SCB-CR 7 tynes at the center of the "B" bar then the others.

📌 NOTE

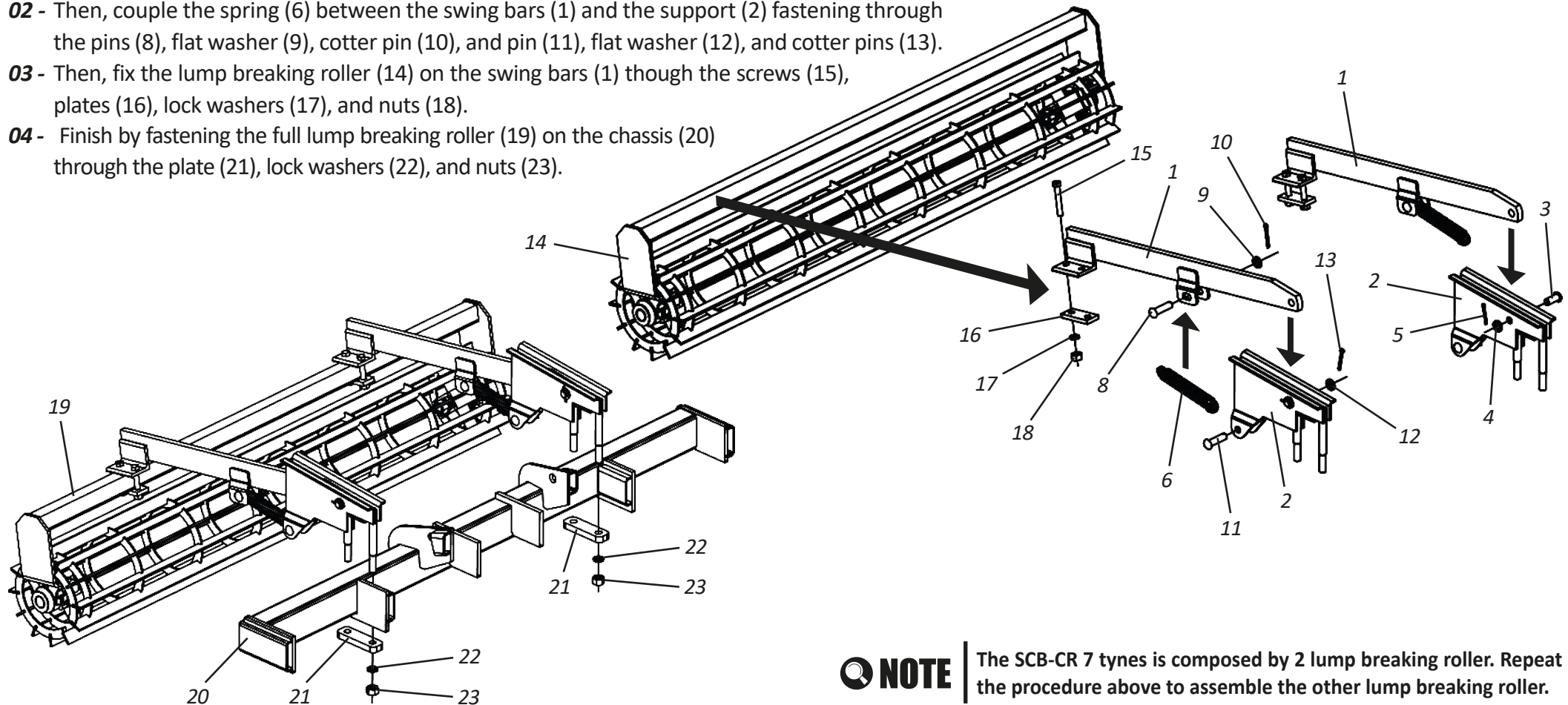
Cutting discs must be mounted aligned with the tynes.

■ Assembly

• Mounting the cutting roller

To mount the cutting roller, proceed as follows:

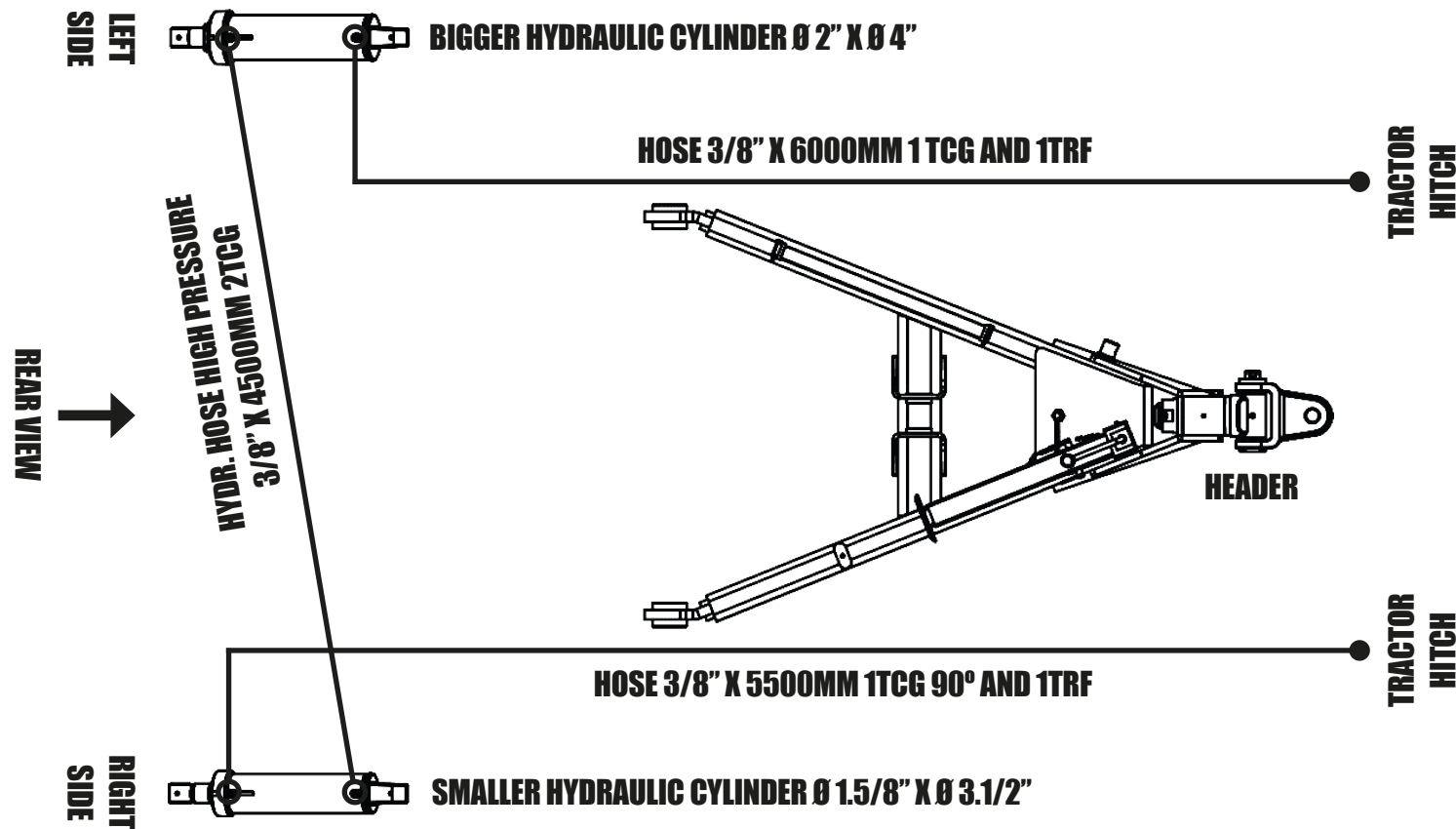
- 01** - Insert the sway bar (1) between the supports (2) and lock with the pins (3), flat washers (4), and cotter pins (5).
- 02** - Then, couple the spring (6) between the swing bars (1) and the support (2) fastening through the pins (8), flat washer (9), cotter pin (10), and pin (11), flat washer (12), and cotter pins (13).
- 03** - Then, fix the lump breaking roller (14) on the swing bars (1) through the screws (15), plates (16), lock washers (17), and nuts (18).
- 04** - Finish by fastening the full lump breaking roller (19) on the chassis (20) through the plate (21), lock washers (22), and nuts (23).



NOTE | The SCB-CR 7 tynes is composed by 2 lump breaking roller. Repeat the procedure above to assemble the other lump breaking roller.

▪ Assembly

- Mounting the hydraulic system - SCB-CR 5 tynes



ATTENTION

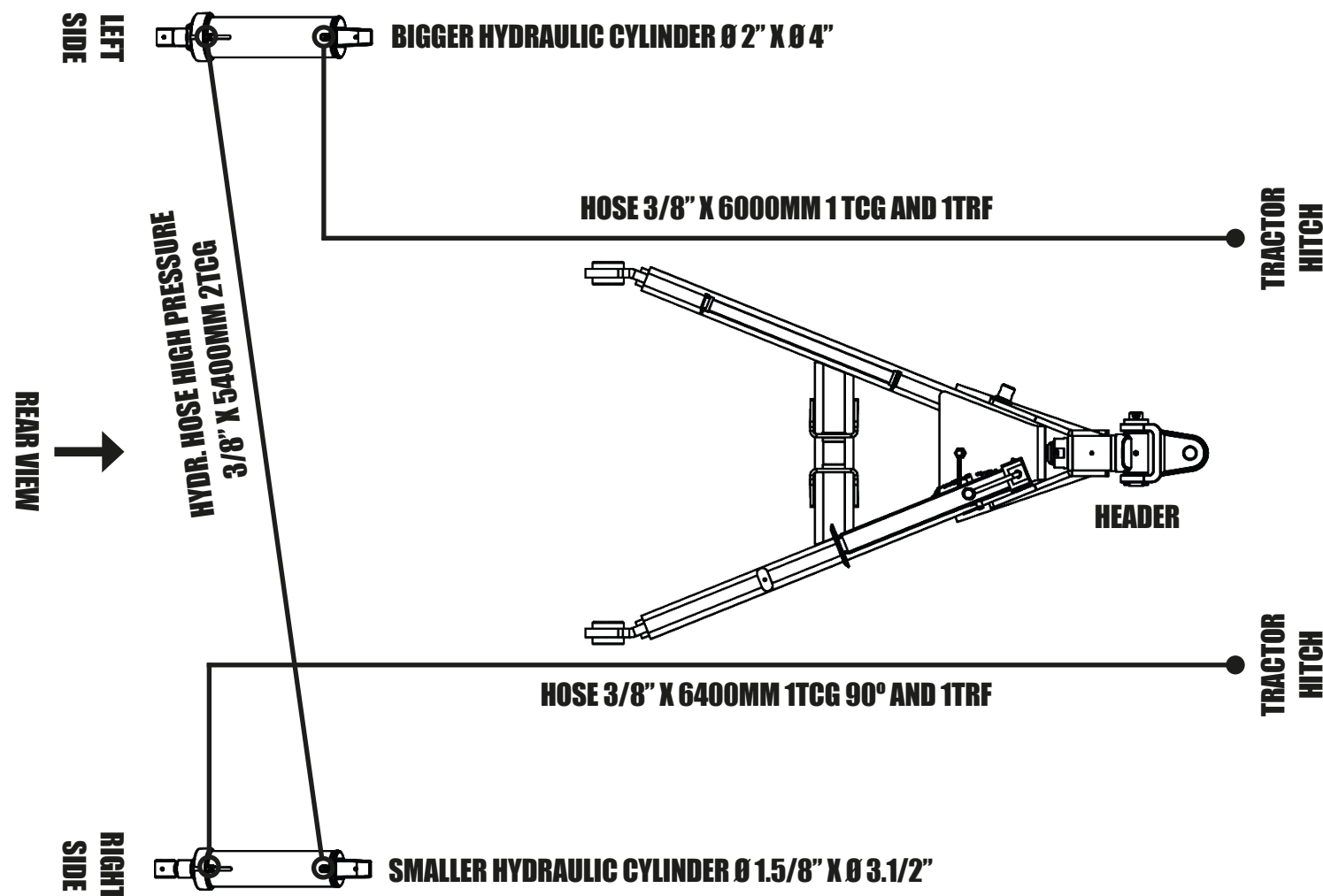
After assembling the hydraulic system, perform a general check on the SCB-CR. Retighten all screws and nuts, check all pins, cotter pins, locks, and hoses.

NOTE

"Right side and left side" indications are made by observing the seeder from behind.

■ Assembly

- Mounting the hydraulic system - SCB-CR 7 tynes



⚠ ATTENTION

After assembling the hydraulic system, perform a general check on the SCB-CR. Retighten all screws and nuts, check all pins, cotter pins, locks and hoses.

🔍 NOTE

"Right side and left side" indications are made by observing the seeder from behind.

▪ Hitch

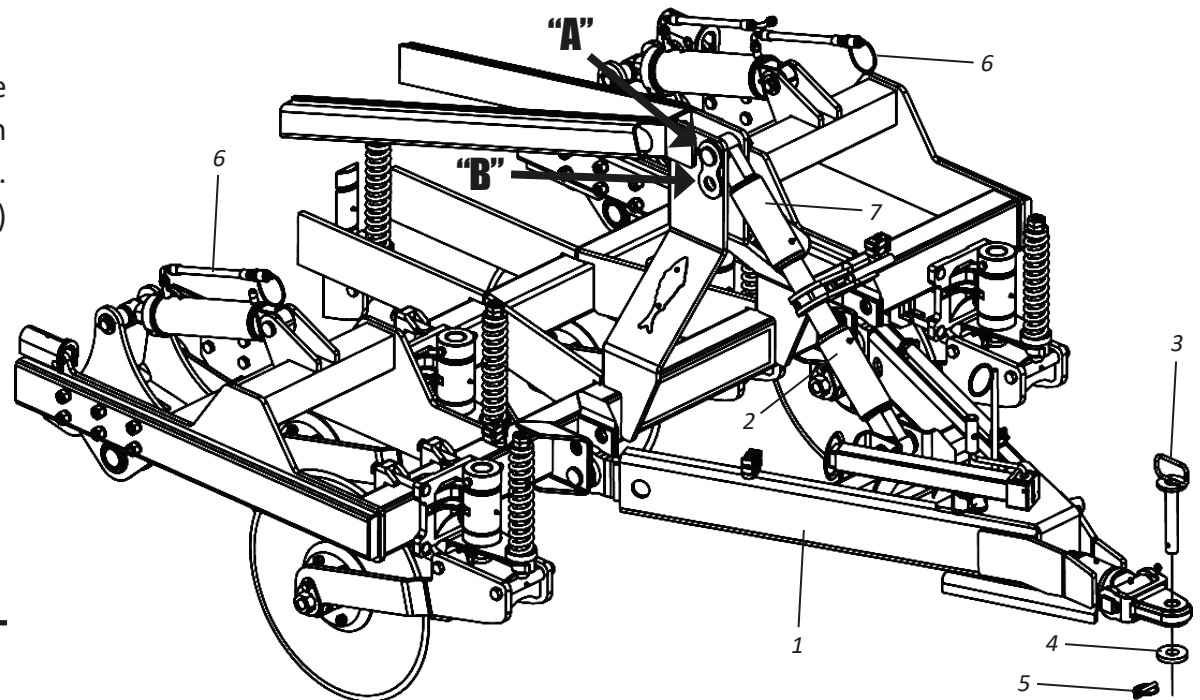
• Subsoiler hitch

To couple the **SCB-CR** to the tractor drawbar, follow these instructions:

- ⚠ Before hitching the **SCB-CR**, look for a safe and easy-access location. Always use low idle.
- ⚠ With low acceleration.
- ⚠ Before turning the hydraulic hoses on or off, stop the engine and relieve circuit pressure by fully activating the control levers.
- ⚠ Make sure that when relieving the pressure from the system, no one is injured when the equipment is moved.

After following the instructions above, proceed as follows:

- 01** - Level the coupling header (1) of the **SCB-CR** in relation to the tractor coupling through the regulator (2). Then, slowly approach the tractor to the **SCB-CR** in reserve, carefully handling the brakes.
- 02** - Hitch the **SCB-CR** to the tractor by fastening it through the pin (4) and lynch pin (5).
- 03** - Finish by coupling the hoses (6) to the tractor's quick coupling.



NOTE

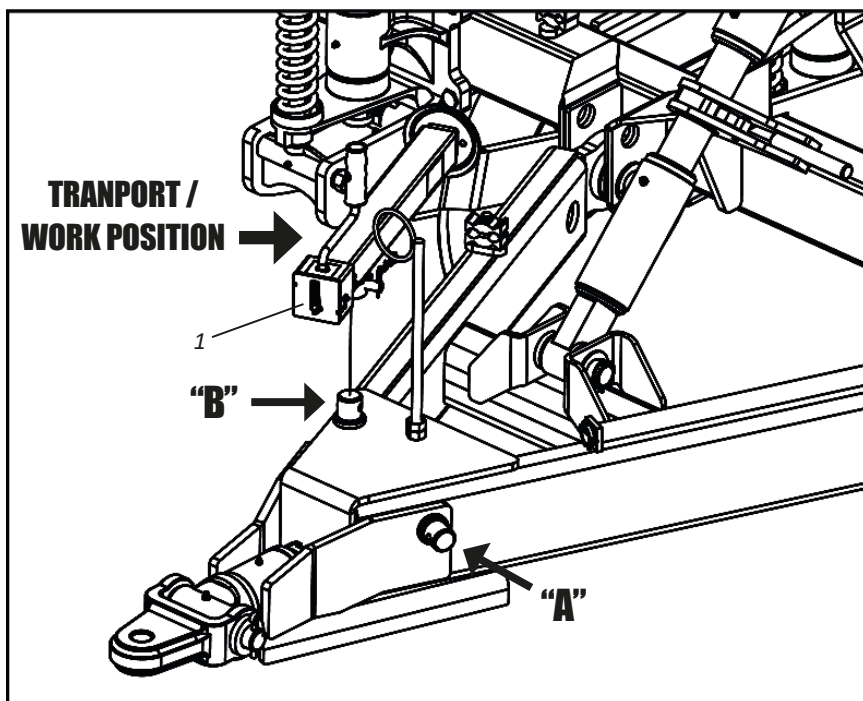
When adjusting the coupling header (1) to couple the SCB-CR, depending on the tractor model, position the regulator (7) at point "A" or "B".

▪ Hitch

• Support bracket

After hitching the **SCB-CR** to the tractor, place the support bracket (1) in the transport/work position, proceeding as follows:

- 01** - Remove the support bracket (1) from point "A" and place it in point "B".



⚠ ATTENTION

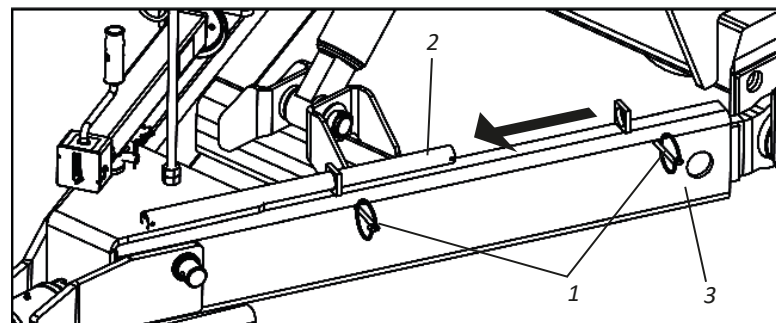
DO NOT work to transport the SCB-CR with the support bracket (1) on point "A". Ignoring this warning may cause damage or serious accidents.

▪ Leveling

• Subsoiler leveling

To level the **SCB-CR**, proceed as follows:

- 01** - Place the tractor and the **SCB-CR** in a flat location.
02 - Then, release the lynch pins (1) and remove the tube (2) from the header (3).



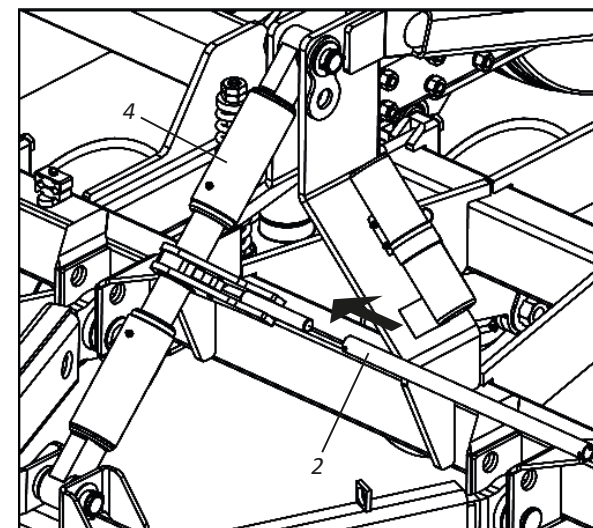
- 03** - Then, fasten the tube (2) to the regulator (4) and level the SCB-CR.

⚠ ATTENTION

The tynes should be parallel to the ground, that is, they should all touch the ground at the same time.

❗ IMPORTANT

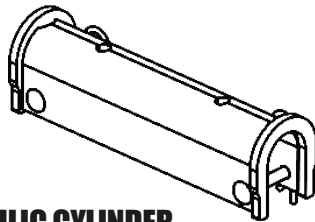
When leveling is complete, fasten the tube (2) to the coupling header (3) again using the locking rings (1).



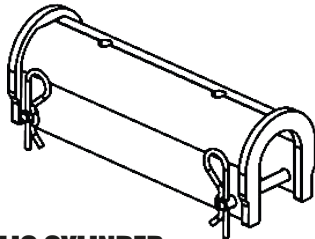
▪ Adjustments

• Adjusting for transport

The **SCB-CR** has 2 different models of locks to be attached to the hydraulic cylinders during its transport. The 2 lock models are:



**SMALLER HYDRAULIC CYLINDER
LOCK FOR 841,27 MM TYNE**



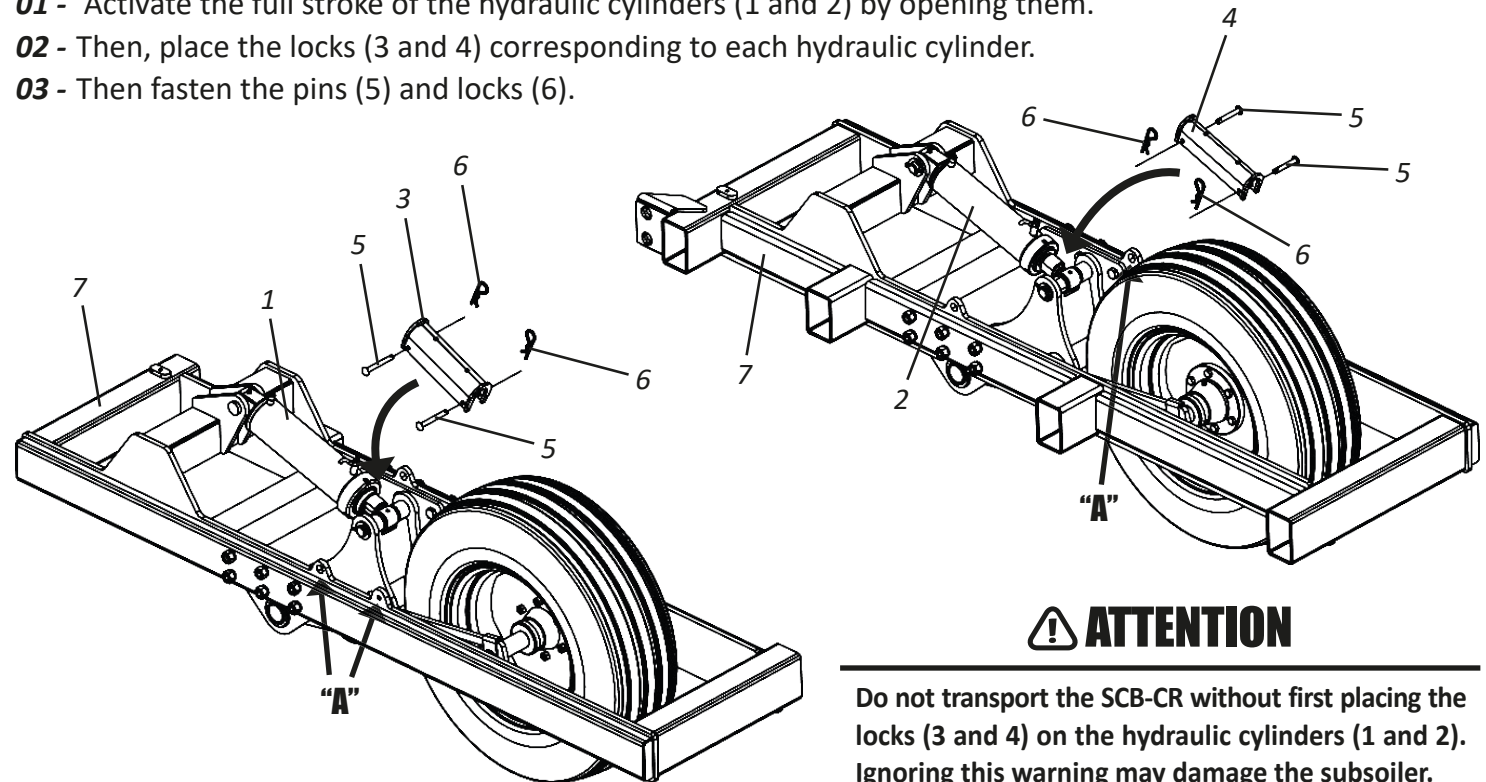
**BIGGER HYDRAULIC CYLINDER
FOR 82" TYNE**

❗ IMPORTANT

Before placing the locks on the hydraulic cylinders, identify the correct model for each cylinder.

To fasten the locks to the hydraulic cylinders, proceed as follows:

- 01** - Activate the full stroke of the hydraulic cylinders (1 and 2) by opening them.
- 02** - Then, place the locks (3 and 4) corresponding to each hydraulic cylinder.
- 03** - Then fasten the pins (5) and locks (6).



⚠ ATTENTION

Do not transport the SCB-CR without first placing the locks (3 and 4) on the hydraulic cylinders (1 and 2). Ignoring this warning may damage the subsoiler.

🔍 NOTE

After completing the transport of the SCB-CR, remove the locks (3 and 4) from the hydraulic cylinders (1 and 2) and fasten them again on the chassis (7) as shown in detail "A", through the pins (5) and lock (6).

▪ Adjustments

• Adjusting the rod depth

The working depth of the tynes (1) is limited by the wheels (2) that are driven by the hydraulic cylinders (3). To limit the working depth of the tynes (1), proceed as follows:

01 - First, determine the working depth of the tynes (1).

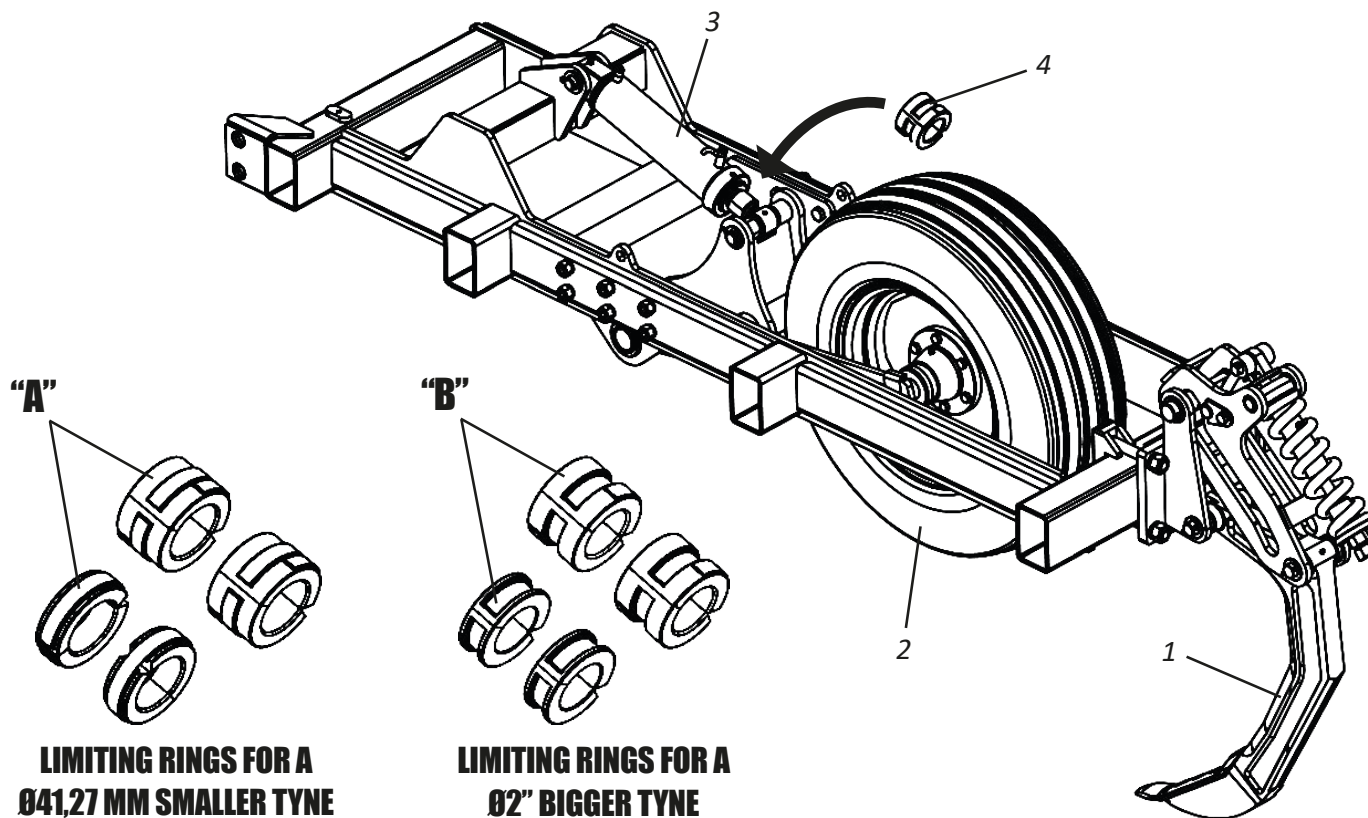
02 - Then, lift the wheels (2) through the hydraulic cylinders (3) to the specified extent, place the limit rings (4) on the tynes of the hydraulic cylinders (3).

ATTENTION

After adjustment, the depth will be constant, because the limiting rings (4) are limiting the travel of the hydraulic cylinder (3), preventing the wheels from oscillating, always maintaining the same depth.

IMPORTANT

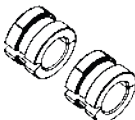
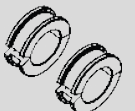
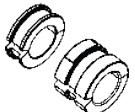
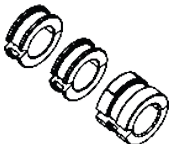
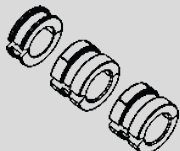
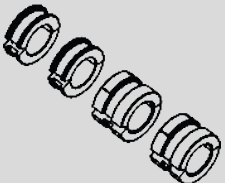
The SCB-CR has 2 different sets of limit rings (A and B). Before assembling them, identify the correct assembly for each cylinder.

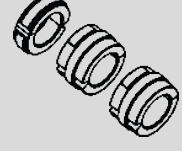
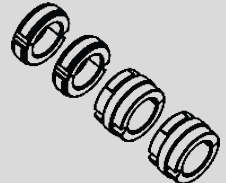


▪ Adjustments

• Limiting ring combinations

Sets (A and B) of limit rings mentioned on the previous page, have different sizes, which combined as below, offer various depth adjustments.

LIMITING RINGS FOR A Ø41,27 MM SMALLER TYNE	
OPTION 1 	OPTION 2 
OPTION 3 	OPTION 4 
OPTION 5 	OPTION 6 
OPTION 7 	OPTION 8 

LIMITING RINGS FOR A Ø2" BIGGER TYNE	
OPTION 1 	OPTION 2 
OPTION 3 	OPTION 4 
OPTION 5 	OPTION 6 
OPTION 7 	OPTION 8 

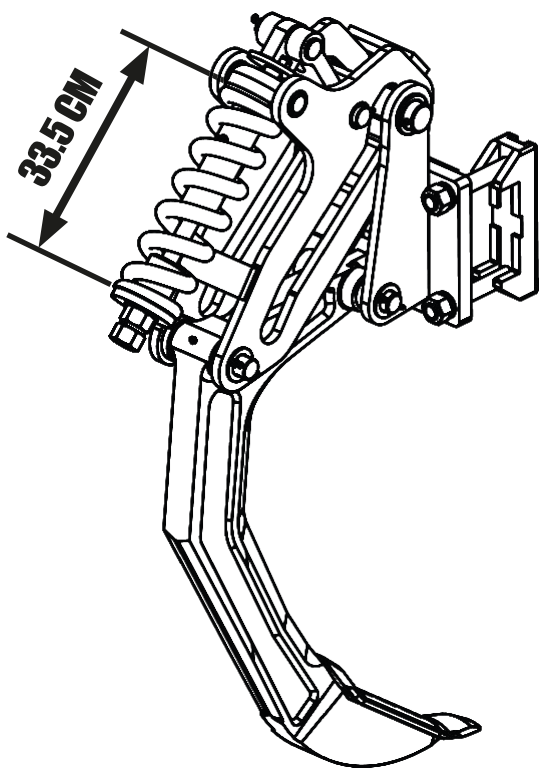
▪ Adjustments

• Automatic tripping

The automatic tripping system allows the subsoiling tynes (1) to trip when finding obstacles. To return to the working position, simply lift the subsoiler and reverse the machine to reset the system.

• Adjusting the automatic tripping load

The automatic tripping system of the tynes leaves the factory set with a pre load regulation, that is, with 33.5 cm of spring length.



ATTENTION

There is no need to make other adjustments to the rod release system. If it is tripping, check the soil conditions, which must be very hard or have a high compaction rate.



IMPORTANT

Never work with springs with a length less than 33.5 cm, as this may lock the system and damage the subsoiler.



NOTE

For greater efficiency of subsoiling by vibration, work with the lowest pressure possible, since in normal working conditions, the tyne does not trip frequently.

▪ Adjustments

• Adjusting the cutting disc pressure

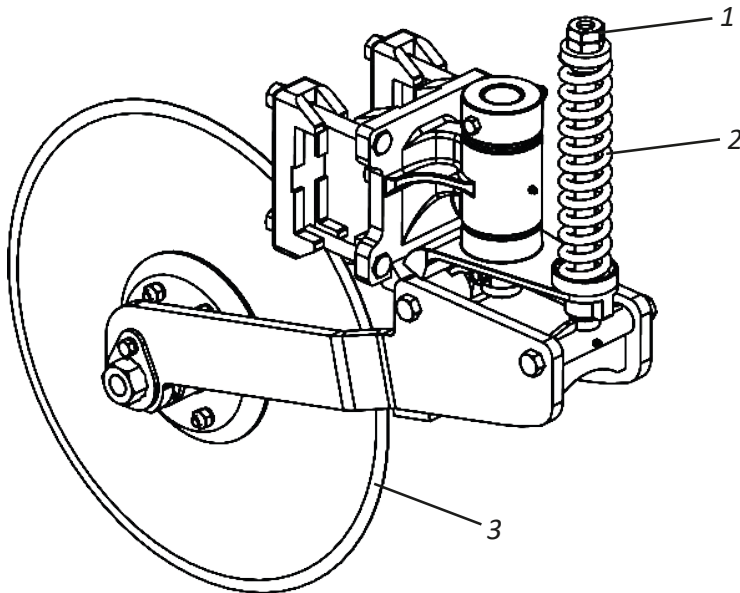
To adjust the pressure of the cutting disc, proceed as follows:

Turn the nut (1) to the right (clockwise).

For greater pressure on the spring (2).

Turn the nut (1) to the left (counterclockwise).

For less pressure on the spring (2).

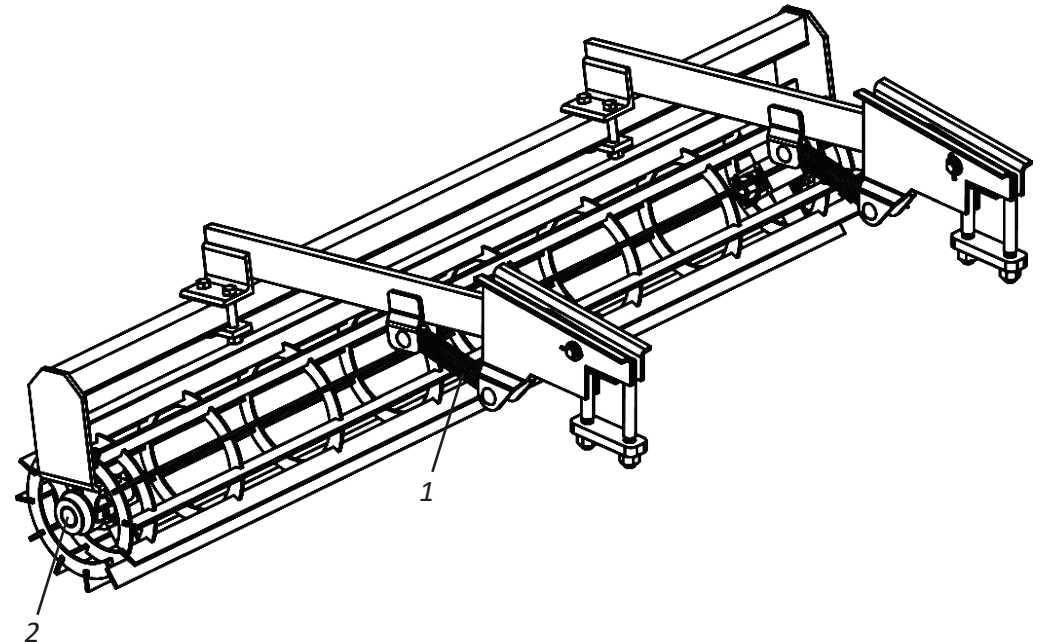


When adjusting the pressure of the cutting disc (3), take care not to cancel the articulation action.

▪ Operations

• Lump breaking roller

The lump breaking roller reduces lumps and facilitating the work of other equipment, pre leveling the ground. The lump breaking roller consists of helical springs with gradual traction 1 and oil bath bearings 2 or grease bearings.



When in operation or even parked, do not allow people to remain on the SCB-CR, especially on the lump breaking roller. Ignoring this warning could cause serious accidents or even death.

▪ Operations

• Recommendations for operation

The preparation of the **SCB-CR** and the tractor will allow you to save time and have better results in field work. The following suggestions may be helpful to you.

GENERAL RECOMMENDATIONS

- 01** - Adjust the tractor according to the contents of the instruction manual, always using the front and rear weights to stabilize the subsoiler.
- 02** - Always couple the tractor at idle and very carefully.
- 03** - When using the **SCB-CR** it is important to check the coupling and cross leveling system to make sure that the discs will have the same ground penetration depth.
- 04** - After coupling and leveling, the next adjustments will be made directly in the work field, analyzing the terrain in its texture, humidity and the types of operations to be done with the **SCB-CR**.
- 05** - On the tractor, choose a gear that allows you to maintain a certain reserve of power, ensuring against unforeseen efforts.
- 06** - Respect the working and transport speeds specified on page 9. We do not recommend exceeding speeds to maintain service efficiency and avoid possible damage to the **SCB-CR**.
- 07** - Do not disconnect any hose without first relieving circuit pressure. To do this, operate the control levers a few times with the engine off.
- 08** - After the first day of work with the **SCB-CR**, retighten all screws and nuts, check the condition of the pins and locks. Then, perform a general tightening of all bolts and nuts every 10 hours of work.
- 09** - When using the **SCB-CR** it is important to check the transverse leveling system to make sure that the tynes will have the same ground penetration depth.
- 10** - When performing any maintenance on the **SCB-CR**, lower it to the ground and turn the engine.
- 11** - The **SCB-CR** has several settings, however, only local conditions can determine its best adjustment.

If in doubt, never operate or handle the SCB-CR, contact After Sales.
Telephone: 0800 152577 / E mail: posvenda@baldan.com.br

▪ Operations

• Tynes operations

- 01** - Subsoiling operations must be carried out on relatively dry ground to break the compacted soil layer.
- 02** - This layer is located just below the surface layer of the soil, that is, approximately 10 to 15 cm in depth, and this layer varies from 5 to 15 cm in thickness.
- 03** - Check the depth of the compacted soil layer through a penetrometer or trench and adjust the working depth of the tynes.
- 04** - The tynes are equipped with an exclusive automatic tripping and resetting system that trips when finding obstacles, returning to the normal working position simply by lifting the subsoiler and reversing it (page 32).
- 05** - When operating with the subsoiler, choose a gear that allows the tractor to maintain a certain power reserve as a guarantee against unforeseen efforts.
- 06** - When performing maneuvers, activate the hydraulic cylinder by fully lifting the subsoiler to avoid great effort in it and overloading mainly the traction components.
- 07** - In terrains that are difficult to penetrate, i.e. compact, the cutting depth of the tynes may be minimal, making the operation unsatisfactory. In these cases we recommend the application of other more suitable Baldan products.
- 08** - The working speed varies according to terrain conditions.

If in doubt, never operate or handle the SCB-CR, contact After Sales.
Telephone: 0800 152577 / E mail: posvenda@baldan.com.br

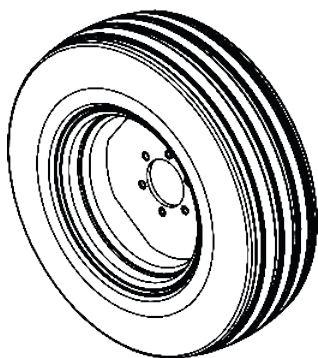
▪ Maintenance

The **SCB-CR** was developed to provide you with maximum performance under terrain conditions. Experience has shown that periodic maintenance of certain parts of the **SCB-CR** is the best way to help you to avoid problems, so we suggest checking.

• Tyre pressure

The tyres must always be correctly calibrated, avoiding premature wear due to excess or lack of pressure and ensuring precision in dispensing.

SCB-CR 5 TYNES / SCB-CR 7 TYNES



TYRES 10.5/80-18 10-PLY SUPER FLOTATION
USE: 54 LBS/POL²

ATTENTION

Never weld the wheel with a mounted tyre, as heat can increase air pressure and cause the tyre to explode.

When inflating a tyre, position yourself next to the tyre, never in front of it.

When inflating the tyre, always use a containment device (inflation cage).

Assemble the tyres with suitable equipment. The service should be performed only by persons qualified for the job.

IMPORTANT

When calibrating the tyres, do not exceed the recommended calibration.

NOTE

Tractor tyre pressure should be as recommended by the manufacturer.

■ Maintenance

• Lubrification

Lubrication is essential for good performance and longer durability of the moving parts of the **SCB-CR** saving maintenance costs.

Before operating the machine, carefully lubricate all grease fittings, always observing the lubrication intervals on the following pages. Make sure of the quality of the lubricant, its efficiency and purity, avoiding the use of products contaminated by water, soil and other agents.

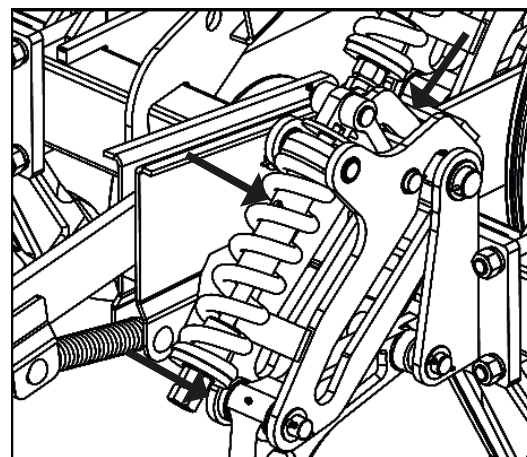
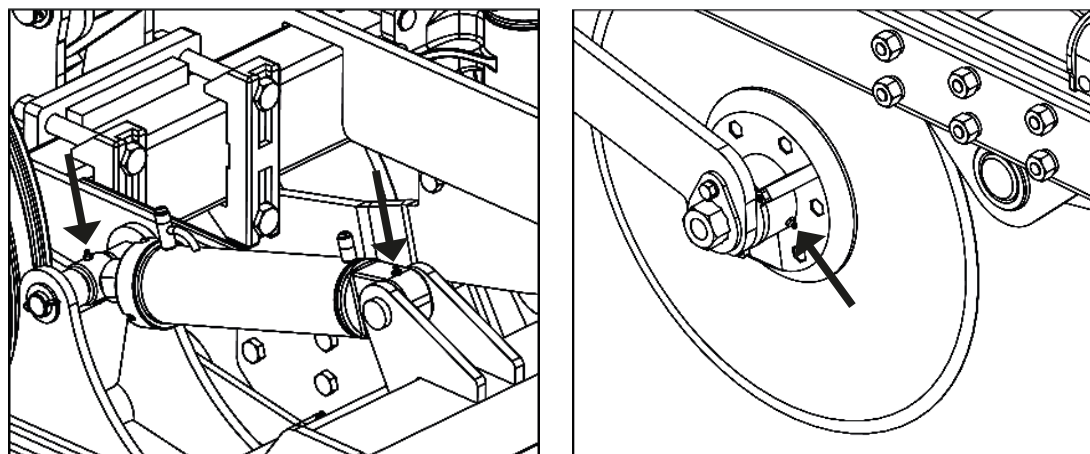
• Grease table and equivalents

Manufacturer	Recommended grease types
Petrobrás	Lubrax GMA-2
Atlantic	Litholine MP 2
Ipiranga	Ipiflex 2
Castrol	LM 2
Mobil	Grease MP
Texaco	Marfak 2
Shell	Alvania EP 2
Esso	Multi H
Bardahl	Maxlub APG-2EP
Valvoline	Palladium MP-2
Petronas	Tutela Jota MP 2 EP
	Tutela Alfa 2K
	Tutela KP 2K

ATTENTION

For manufacturers and or equivalent brands not listed in the table, see the manufacturer's technical manual.

• Lubrification every 10 hours of work - Part I

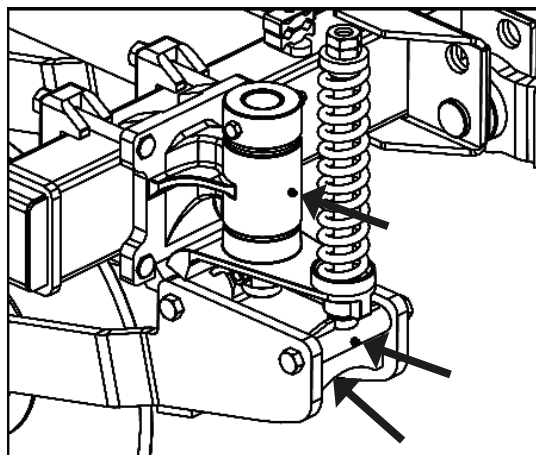


ATTENTION

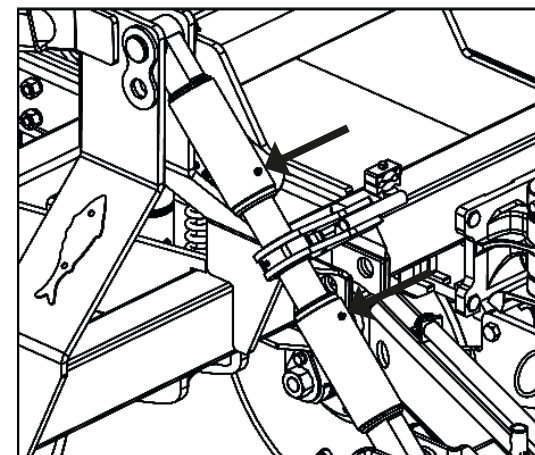
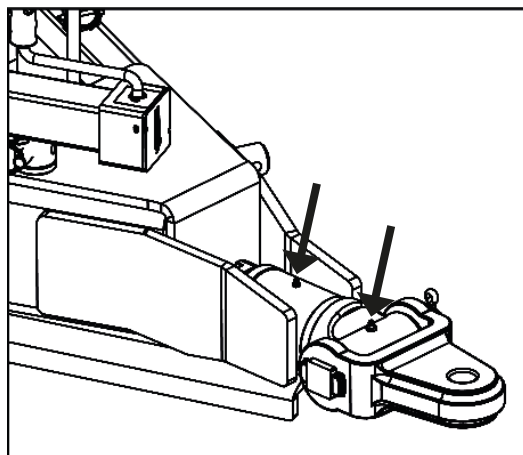
When lubricating the SCB-CR, do not exceed the amount of new grease. Insert a sufficient amount.

■ Maintenance

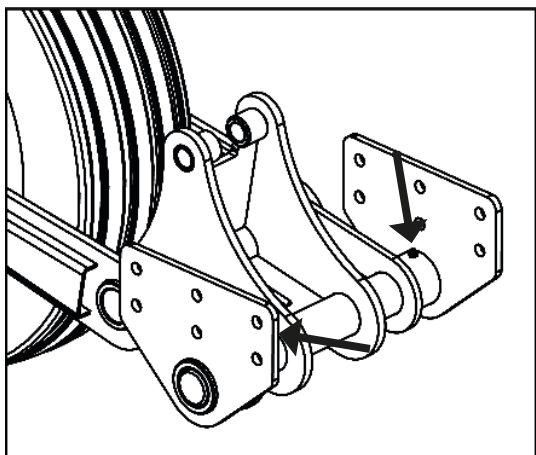
• Lubrification every 10 hours of work - Part II



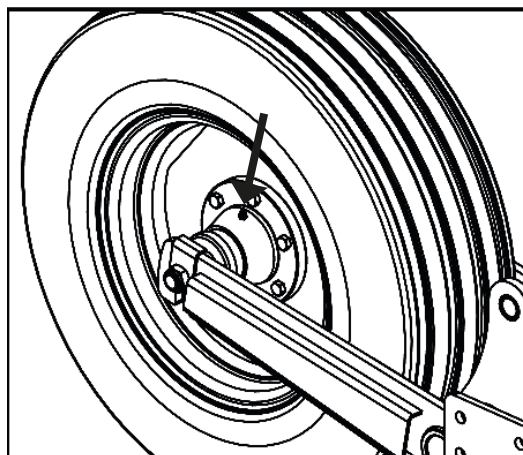
• Lubrification every 30 hours of work



• Lubrification every 24 hours of work



• Lubrification every 60 hours of work



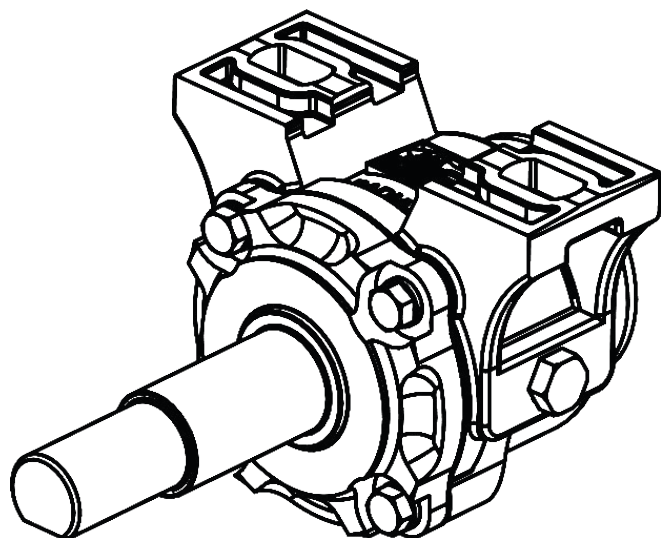
ATTENTION

When lubricating the SCB-CR, do not exceed the amount of new grease. Insert a sufficient amount.

▪ Maintenance

• Oil bearing

In the first days of work with the **SCB-CR**, check the bearing oil level everyday, then check every 120 hours of work.



ATTENTION

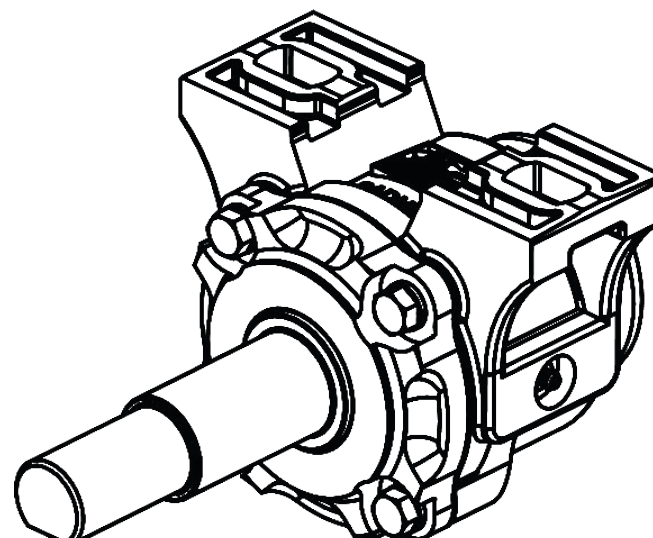
Change oil every 1200 hours of work using 0.090 liters.
Use transmission oil: 90 API GL4, MIL L 2105; SAEJ306, may/81: SAE 80W, 90 and 140.

NOTE

The ideal oil level is when it reaches the plug hole.
To check the bearing oil level, look for a flat place.

• Grease bearing

Grease bearings should be lubricated every 12 hours of work, using the grease specified below.



ATTENTION

The amount of grease in each bearing is 200 g.
Use only grease: EP (Specification DIN51825 KP00K Consistency NLGI 2/3).

NOTE

Before relubricating the bearing, clean the grease fitting with a clean, lint free cloth. Replace damaged grease fittings.

■ Maintenance

• Operational maintenance

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Damage tires.	Work area with stones, stumps, or crop remains with stems that may cut the tires.	Eliminate tire damage elements before using the SCB-CR .
	Tires are not under the proper pressure causing deformation.	Maintain proper tire pressure.
Strange noise on wheels.	Loose wheels or wheel set.	Retighten wheel nuts and adjust wheel hub bearings.
	Bearings breakage.	Identify the occurrence and replace the damaged parts.
Quick coupling does not fit.	Couplings of different types.	Exchange them for males and females of the same type.
Leaking hydraulic hoses.	Thread sealing material is missing.	Use thread sealant and retighten carefully.
	Insufficient tightening.	Retighten carefully.
	Damaged repairs.	Replace terminals.
Leak in quick couplers.	Insufficient tightening.	Retighten carefully without excess.
	Damaged repairs.	Replace repairs.
Quick couplings do not couple.	Couplings of different brands.	Use couplings of the same brand.
	Mixture of needle couplings with ball couplings.	Always use couplings of the same type.
	System pressure.	Relieve pressure to couple.
Leaking hydraulic cylinders.	Oil with impurities.	Replace oil, repairs and filter element.
	Working pressure higher than recommended.	Adjust the control using the relief valve with a pressure gauge.
	Damaged repairs.	Replace repairs.
	Damaged rod.	Replace rod.

▪ Maintenance

• Care

- 01** - Before each work, check the condition of all hoses, pins, screws, bearings, discs, and sections. When necessary, retighten, or replace them.
- 02** - Movement speed must be carefully controlled according to the terrain conditions.
- 03** - The **SCB-CR** is used in several applications, requiring knowledge and attention when handled.
- 04** - Only local conditions may determine the best way of operating the **SCB-CR**.
- 05** - When assembling or disassembling any part of the **SCB-CR** use appropriate methods and tools.
- 06** - Carefully observe the lubrication intervals at the various lubrication points of the **SCB-CR**. Observe the lubrication intervals.
- 07** - Always check the parts for wear. If replacement is required, always require original Baldan parts.
- 08** - Keep the **SCB-CR** tires always inflated.
- 09** - Keep the **SCB-CR** discs always sharp.

ⓘ IMPORTANT | Proper and periodic maintenance is necessary to ensure the long life of the SCB CR.

• General cleaning - Part I

- 01** - When storing the **SCB-CR** give it a general cleaning and wash it thoroughly with water only. Check that the paint has not worn out, if this has happened, apply a general coat, apply protective oil, and lubricate the **SCB-CR** completely. Do not use burnt oil or other abrasive.
- 02** - Fully lubricate the **SCB-CR**. Check all moving parts of the **SCB-CR** for wear or looseness, make the necessary adjustment or parts replacement, leaving the **SCB-CR** ready for the next work.
- 03** - After all maintenance work, store the harrow in a covered, dry place, properly supported.

Avoid:

- The discs from directly contacting the ground.
- The compression of the springs.
- That the hydraulic hoses are properly plugged.

- 04** - When connecting or disconnecting hydraulic hoses, do not let their ends touch the ground. Before connecting the hydraulic hoses, clean the connections with a clean cloth without loose threads. **Do not use tow!**

▪ Maintenance

• General cleaning - Part II

- 05** - Replace all damaged or missing stickers, especially warnings. Make everyone aware of their importance and the dangers of accidents when instructions are not followed.
- 06** - After all maintenance care, store your **SCB-CR** on a flat surface, covered and dry away from animals and children.
- 07** - We recommend the **SCB-CR** only with water at the beginning of the work.



ATTENTION

Do not use chemicals or abrasives to rinse the SCB-CR, this may damage the paint and adhesives.

• Subsoiler conservation - Part I

To prolong the life and appearance of the **SCB-CR** for longer, follow the instructions below:

- 01** - Wash and clean all harrow components during and at the end of the work season.
- 02** - Use neutral products to clean the harrow, following the safety and maintenance instructions provided by the manufacturer.
- 03** - Always carry out maintenance during the periods indicated in this manual.

• Subsoiler conservation - Part II

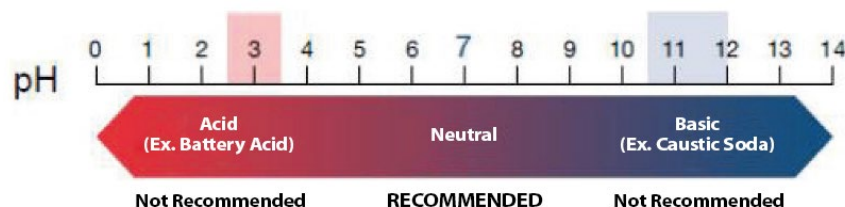
The practices and care below if adopted by the owner or operator make a difference to the conservation of the **SCB-CR**.

- 01** - Be careful when performing high-pressure washing; do not direct the water jet directly into the connectors and electrical components. Isolate all electrical components;
- 02** - Use only NEUTRAL detergent and water (pH equal to 7);

▪ Maintenance

• Subsoiler conservation - Part III

- 03** - Apply the product, following the manufacturer's instructions strictly, on the wet surface and in the correct sequence, respecting the time of application and washing;
- 04** - Stains and dirt not removed with the products should be removed with the aid of a sponge.
- 05** - Rinse the machine with clean water to remove any chemical residues.
- 06** - Do not use:
 - Detergents with a basic active ingredient (pH greater than 7), can attack/stain the paint on the harrow.
 - **Detergents with acid active ingredient (pH less than 7), act as stripper/remover of zinc coating (the protection of parts against oxidation).**



- 07** - Allow the machine to dry in the shade so that it does not accumulate water in its components. Very fast drying can cause stains on your paint.
- 08** - After drying, lubricate all chains and greases according to the recommendations in the operator's manual.
- 09** - Spray all the machine, especially the zinc parts, with protective oil, following the manufacturer's application guidelines. The protective also prevents dirt from adhering to the machine, facilitating subsequent washings.
- 10** - Observe curing (absorption) time and application intervals as recommended by the manufacturer.

⚠ ATTENTION | Do not use any other type of oil to protect the harrow (used hydraulic oil, "burnt" oil, diesel oil, castor oil, kerosene, etc.).

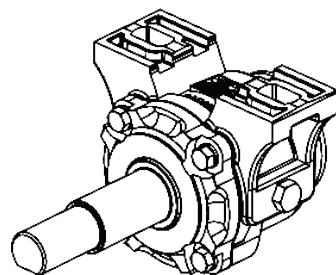
! IMPORTANT | We recommend the following protective oils:
 - Bardahl: Agro protective 200 or 300
 - ITWChemical: Zoxol DW - Series 4000

🔍 NOTE | Ignoring the conservation measures mentioned above may result in the loss of warranty for painted or zinc-coated components which may exhibit oxidation (rust).

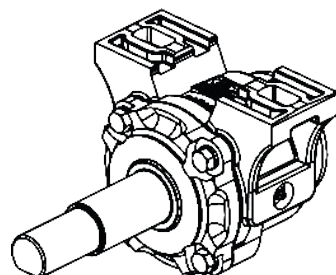
▪ Optional

• Optional accessories

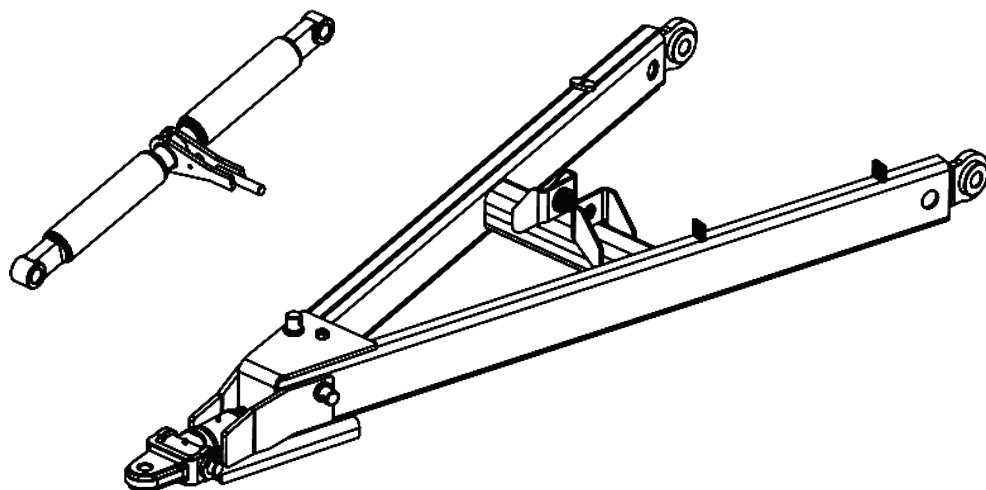
The **SCB-CR** has optional accessories that can be acquired according to the need of work.



RADIAL OIL BEARING



GREASE BEARING



LONG COUPLING HEADER + REGULATOR - SCB-CR 5 AND 7 TYNES THE ARE RECOMMENDED FOR DOUBLE (WHEEL TRACTORS)

▪ Identification

• Identification plate

To see the parts catalog or to request technical assistance from Baldan, always inform model (01), serial number (02) and date of manufacture (03), which is on your **SCB-CR** nameplate.

			
BALDAN IMPLEMENTOS AGRÍCOLAS S/A. AV. BALDAN, 1500 NOVA MATÃO CEP 15.993-900 MATÃO-SP BRASIL FONE: (16) 3221-6500 CNPJ: 52.311.347/0009-06 CREA/SP 0170977			
01	Modelo / Model	Date / Date	03
02	Nº de Série / Serial Number	Tipo / Type	
	Capacidade / Load Capacity	Peso / Weight	

ATTENTION

The drawings in this Instruction Manual are merely illustrative.

CONTACT

In case of doubts, never operate or handle your equipment without referring to Post-Sales.

Telephone: 0800-152577

e-mail: posvenda@baldan.com.br

PUBLICATIONS

Code: 60550109177 | CPT: SCB00320A

■ **Notes:**

[illegible]

Owner: _____

Dealer:

Property:

City: _____

State:

Certificate of Warranty no.:

Implement:

Serial No: _____

Purchase Date: _____

Invoice:



■ Certificate of Warranty

BALDAN IMPLEMENTOS AGRÍCOLAS S/A ensures the dealer normal performance of the implement for a period of six (6) months as of the delivery date on the retail invoice to the first final consumer. During this period, **BALDAN** undertakes to repair defects in material and/or of manufacture of its liability, including labor, freight and other expenses of the dealer's liability.

In the warranty period, request and replacement of eventual defective parts shall be made to the dealer of the area, who will submit the faulty piece for **BALDAN** analysis.

When this procedure is not possible and the resolving capacity of the dealer is exhausted, the dealer will request the support of **BALDAN Technical Assistance** through a specific form distributed to dealers. After analyzing the replaced items by Baldan Technical Assistance, and concluding that it is not a warranty, then the dealer will be responsible for the costs related to the replacement; as well as material expenses, travel including accommodation and meals, accessories, lubricant used and other expenses arising from the call out to Technical Assistance, and Baldan company is authorized to carry the respective invoice in the name of the resale. Any repair carried in the product within the dealer warranty deadline will only be authorized by **BALDAN** upon previous budget presentation describing parts and work to be performed.

The product is excluded from this term if it is repaired or modified by representatives not belonging to the **BALDAN** dealer network, as well as the application of non-genuine parts or components to the user's product. This warranty is void where it is found that the defect or damage is caused by improper use of the product, failure to follow instructions or inexperience of the operator.

It is agreed that this warranty does not cover tires, polyethylene tanks, cardan, hydraulic components, etc., which are equipment guaranteed by their manufacturers. Manufacturing and/or material defects, object of this warranty term, will not constitute, under any circumstances, grounds for termination of a purchase agreement, or for indemnification of any nature.

BALDAN reserves the right to change and/or perfect the technical characteristics of its products, without previous notice, and without obligation to proceed in the same way with the products previously manufactured.

■ Inspection and Delivery Certificate

SERVICE BEFORE DELIVERY: This implement was carefully prepared by the sale organization, with all its parts inspected according to the manufacturing prescriptions.

DELIVERY SERVICE: The user was informed about the current warranty terms and instructed on the usage maintenance precautions.

I confirm that the user has been informed about the current warranty terms and instructed on the usage maintenance precautions.

Implement: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer: _____

Telephone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Telephone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Sale date: _____

Signature / Dealer Stamp _____

1st copy - Owner

■ Inspection and Delivery Certificate

SERVICE BEFORE DELIVERY: This implement was carefully prepared by the sale organization, with all its parts inspected according to the manufacturing prescriptions.

DELIVERY SERVICE: The user was informed about the current warranty terms and instructed on the usage maintenance precautions.

I confirm that the user has been informed about the current warranty terms and instructed on the usage maintenance precautions.

Implement: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer: _____

Telephone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Telephone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Sale date: _____

Signature / Dealer Stamp _____

2nd copy - Dealer

■ Inspection and Delivery Certificate

SERVICE BEFORE DELIVERY: This implement was carefully prepared by the sale organization, with all its parts inspected according to the manufacturing prescriptions.

DELIVERY SERVICE: The user was informed about the current warranty terms and instructed on the usage maintenance precautions.

I confirm that the user has been informed about the current warranty terms and instructed on the usage maintenance precautions.

Implement: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer: _____

Telephone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Telephone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Sale date: _____

Signature / Dealer Stamp _____

3rd copy - Manufacturer (Please send completed within 15 days).



BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

Av. Baldan, 1500 | Nova Matão | CEP: 15993-900 | Matão-SP | Brasil
Phone: (0**16) 3221-6500 | Fax: (0**16) 3382-6500
Home Page: www.baldan.com.br | e-mail: sac@baldan.com.br
Export: Phone: 55 16 3321-6500 | Fax: 55 16 3382-4212 | 3382-2480
e-mail: export@baldan.com.br

THE STAMP WILL BE PAID BY:

RESPONSE CARD
NO STAMPING IS REQUIRED

1.74.05.0059-5
AC MATÃO
ECT/DR/SP



Avenida Baldan, 1500
Nova Matão
15.993-900
Matão/SP - Brasil
sac@baldan.com.br
export@baldan.com.br

+55 16 3221 6500
baldan.com.br