

SCB CR

Sugarcane Subsoiler Baldan Remote Control





Presentation



e 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.



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.





Index

BALDAN WARRANTY	07
GENERAL INFORMATION	08
To the owner	08
SAFETY RULES	09
To the operator	09 - 1
WARNINGS	12 - 1
COMPONENTS	14
SCB-CR - Sugarcane Subsoiler Baldan Remote Control	14
DIMENSIONS	15
SCB-CR - Sugarcane Subsoiler Baldan Remote Control	15
SPECIFICATIONS	16
SCB-CR - Sugarcane Subsoiler Baldan Remote Control	16
ASSEMBLY	17
Mounting the coupling head	17
Mounting the wheel shaft	18
Mounting the tyres	19
Mounting the tynes	20
Mounting the tynes - SCB-CR 5 tynes	21
Mounting the tynes - SCB-CR 7 tynes	21
Mounting the discs	22
Mounting the discs - SCB-CR 5 tynes	23
Mounting the discs - SCB-CR 7 tynes	23
Mounting the lump breaking roller	24
Mounting the hydraulic system - SCB-CR 5 tynes	<i>25</i>
Mounting the hydraulic system - SCB-CR 7 tynes	26
COUPLING	27
Subsoiler hitch	27
Support Bracket	28
LEVELLING	28
Subsoiler leveling	28
ADJUSTMENTS	29
Adjusting for transport	29



Index

Adjusting tyne depth	30
Limiting ring combinations	31
Automatic tripping	32
Adjusting the automatic tripping load	32
Adjusting the cutting disc pressure	33
OPERATIONS	33
Lump breaking roller	33
Recommendations for operation	34
Tyne operations	35
MAINTENANCE	36
<i>Tyre pressure</i>	36
Lubrification	36
Lubrification every 10 hours of work	37 - 38
Lubrification every 24 hours of work	38
Lubrification every 30 hours of work	38
Lubrification every 60 hours of work	38
Oil bearing	39
Grease bearing	39
Operational Maintenance	40
Cautions	41
General cleaning	41 - 42
Subsoiler conservation - Part I	42
Subsoiler conservation - Part II	42 - 43
OPTIONAL	44
Optional accessories	44
IDENTIFICATION	44
Nameplate	44
Product identification	45
NOTES	45
CERTIFICATE	46
Warranty certificate	46 - 48



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 IMPORTANTE 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



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 dis-

pose of waste.

PROTECT THE ENVIRONMENT!





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

1 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 Equipament



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:





O 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.

SCB-CR

Ш



Warnings

(!) When operating with the SCB-CR, do not allow people to remain too close or stand on it. (1) When servicing the machine, wear PPE. A 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. 1 Do not wear loose clothes, as they may get caught in the SCB-CR. Mhen 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 sin the neutral position. N Do not start the tractor engine indoors without adequate ventilation as exhaust fumes are harmful to health. Mhen 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. 1 Do not make adjustments while the SCB-CR is running. Mhen 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. /N Always drive the tractor at safety compatible speeds, especially when working on rough or sloping terrain, always keep the tractor hitched. Mhen driving the tractor on roads, keep the brake pedals interconnected. No not work with the tractor with a light rear. If the rear tends to lift, add more weights to the rear wheels. /N 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. No 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

- 1 Do not allow the SCB-CR to be used by untrained people, that is, who do not know how to operate it properly.
- 1 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.
- 1 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.
- Mhen 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.

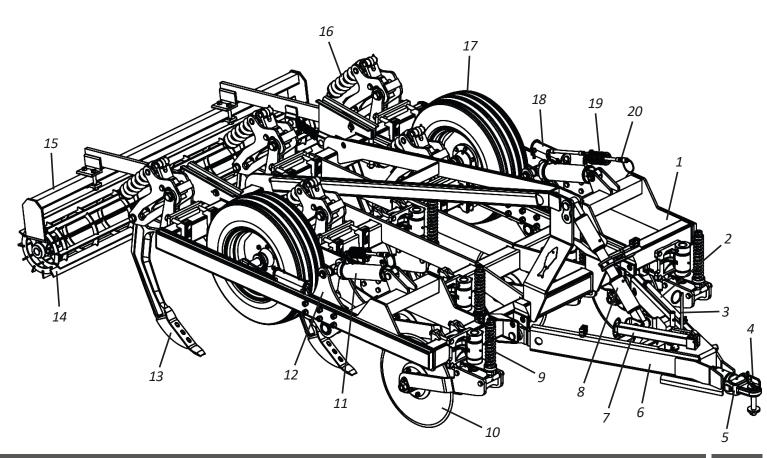
Telephone: 0800-152577 / E-mail: posvenda@baldan.com.br



Components

• SCB-CR - Sugarcane Subsoiler Baldan Remote Control

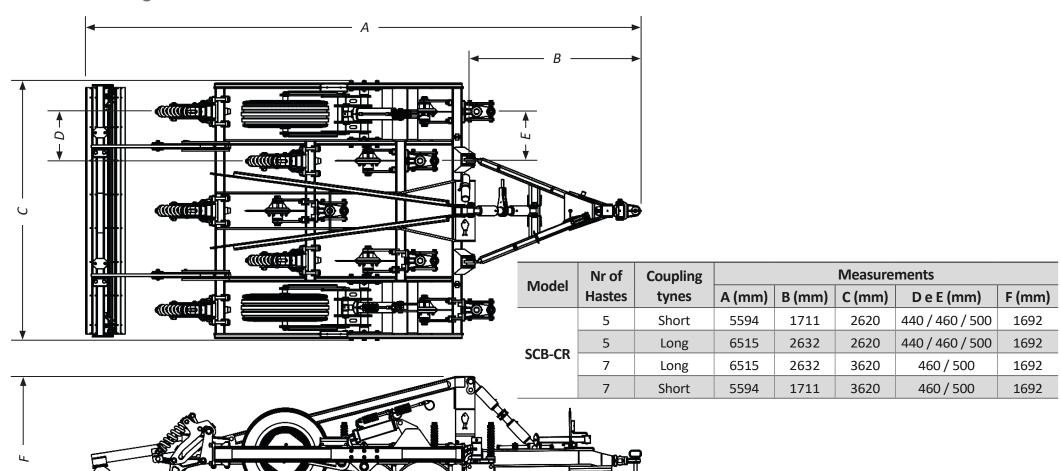
- 1. Chassis
- 2. Regulator tube
- 3. Hose support
- 4. Lynch pin
- 5. Hitch shackle
- 6. Coupling head
- 7. Lift support
- 8. Header regulator
- 9. Disc trolley spring
- 10. Full cutting disc
- 11. Hydraulic cylinder
- 12. Wheel articulation support
- 13. Tyne with automatic trip and reset
- 14. Lump 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





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
	5	5	Short	2620		440 / 460 / 500	2250 / 2500		3115	230 to 250	
SCB-CR	5	5	Long	2620	FF0	440 / 460 / 500	2250 / 2500	26" 4 6 00	3188	230 to 250	10.5/80-18 (10 Ply)
SCD-CK	7	7	Long	3620	550	460 / 500	3150 / 3500	26" x 6,00	3983	320 to 350	Super Flotation
	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.

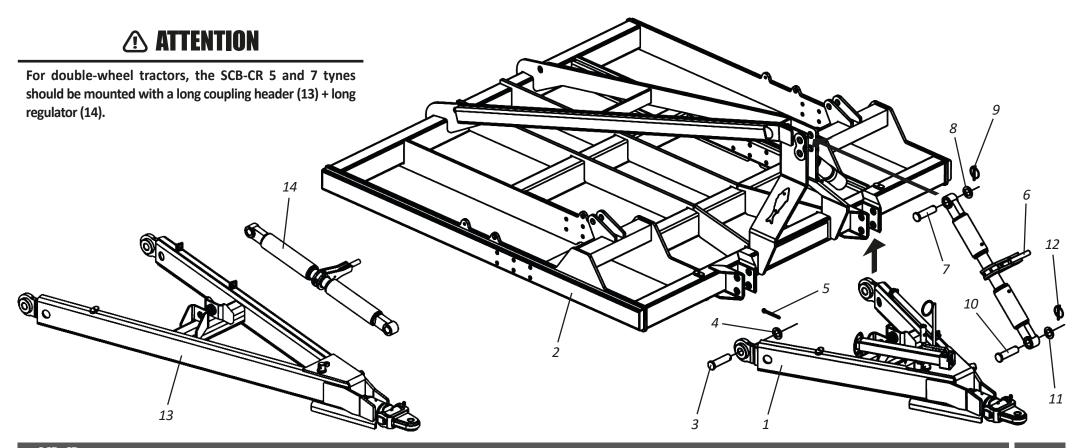


Assembly

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).



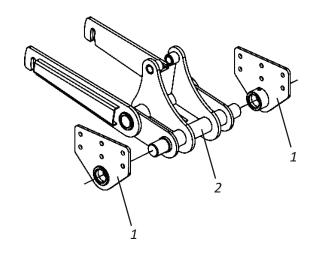


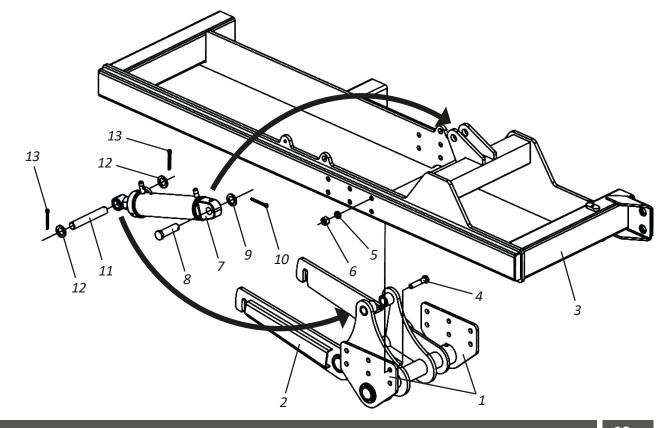
Assembly

• 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).







Repeat the procedure above to assemble the other tire.

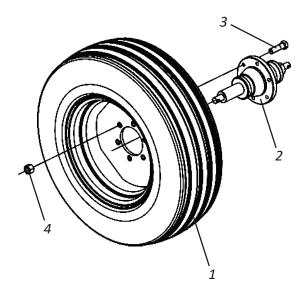


Assembly

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).

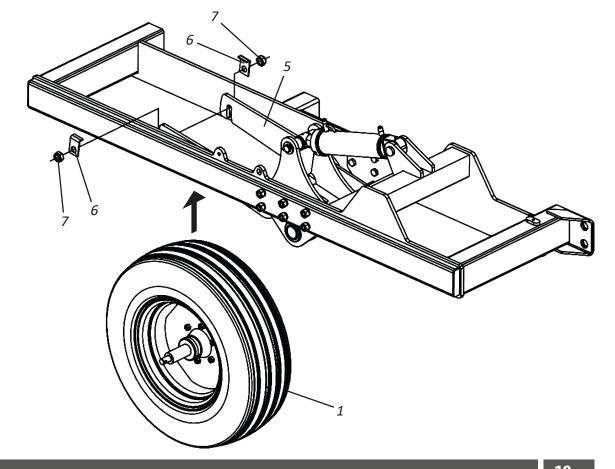




Check the proper tire calibration on page 36.



Repeat the procedures above to assemble the other tire.



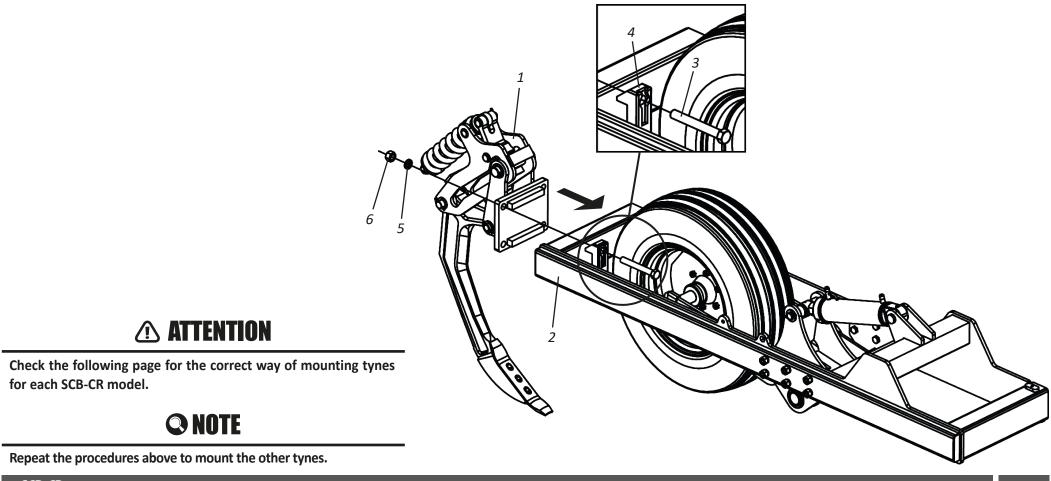


Assembly

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).





Assembly

Mounting the tynes - SCB-CR 5 tynes

 Mounting the tynes - SCB-CR 7 tynes **BEGINNING OF THE MOUNTING BEGINNING OF THE MOUNTING** 880/ 880/ 920 OR 920 OR 920 OR 920 OR 1000 MM 1000 MM 440 / 440/ 460 OR 460 OR 500 MM **500 MM** 460 OR 460 OR **500 MM 500 MM**

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.

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

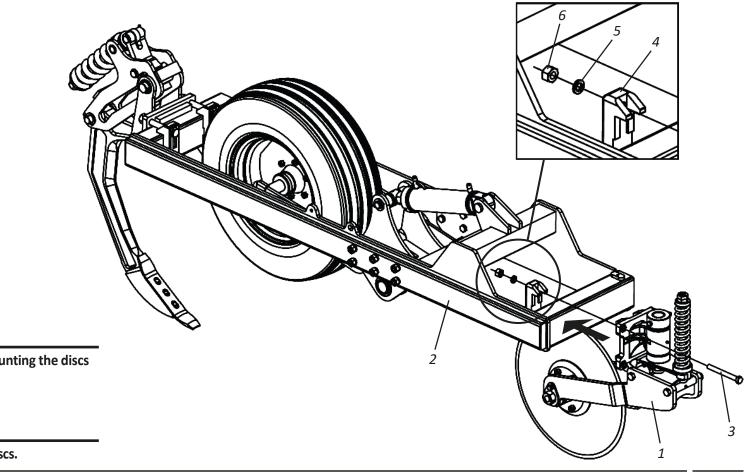


Assembly

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.



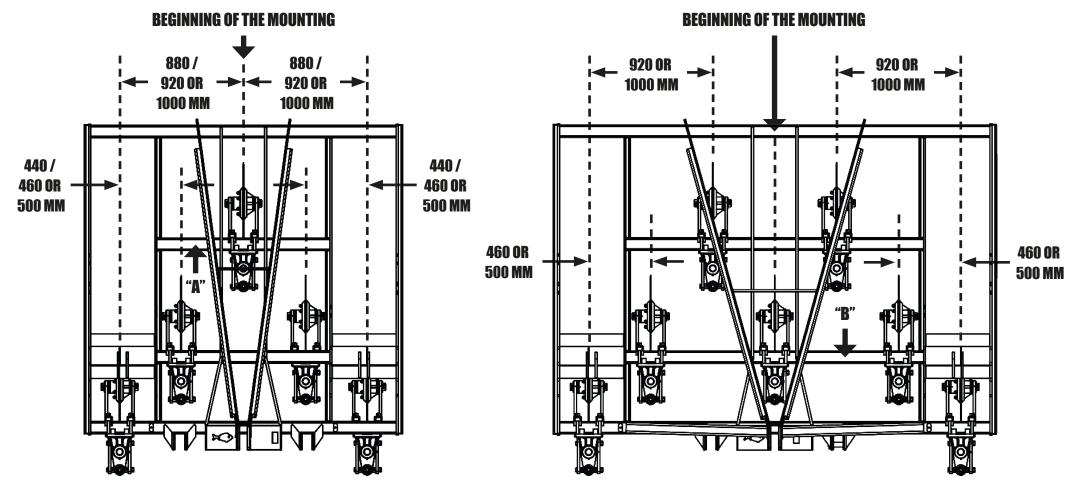
Repeat the procedures above to mount the other discs.



Assembly

Mounting the discs - SCB-CR 5 tynes

• Mounting the discs - SCB-CR 7 tynes



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.



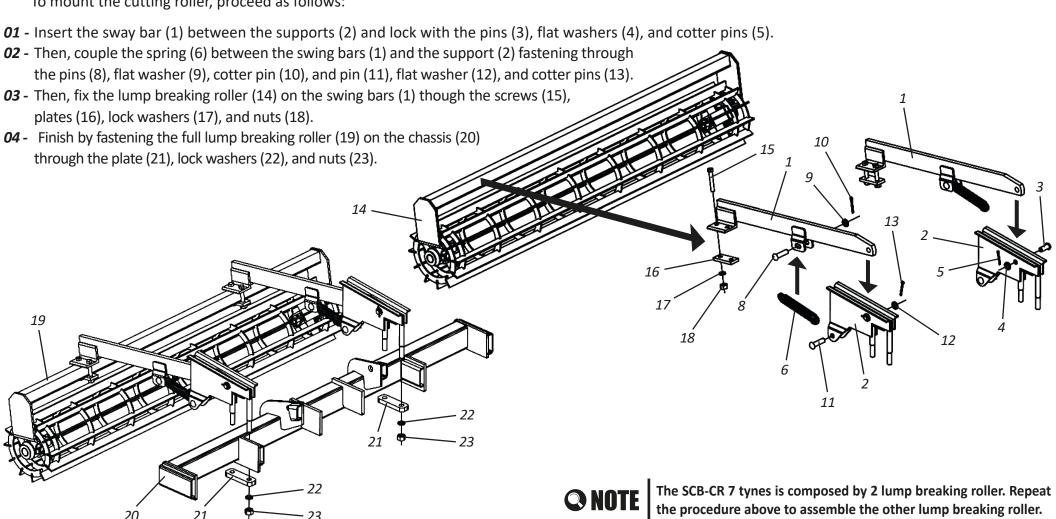
Cutting discs must be mounted aligned with the tynes.



Assembly

Mounting the cutting roller

To mount the cutting roller, proceed as follows:



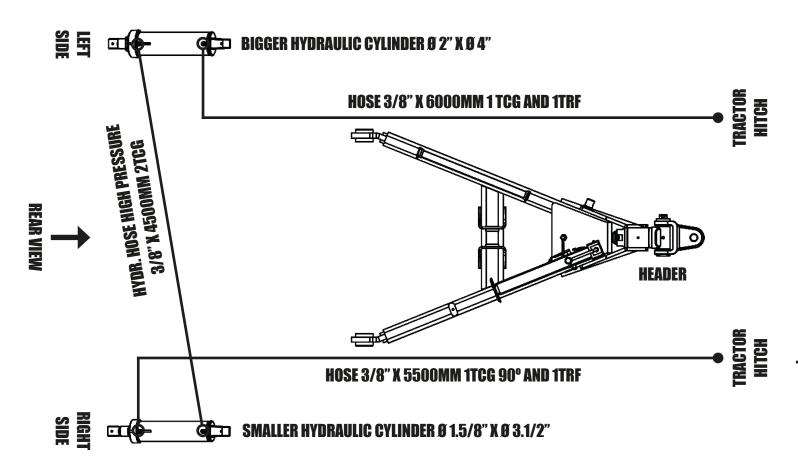
SCB-CR

20



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.

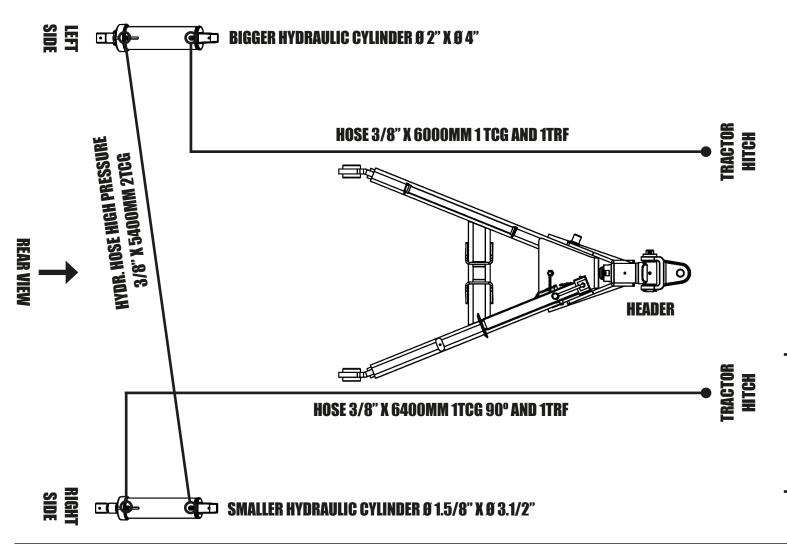


[&]quot;Right side and left side" indications are made by observing the seeder from behind.

>>> BALDAN

Assemby

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.



"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 handing 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.

ONOTE

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

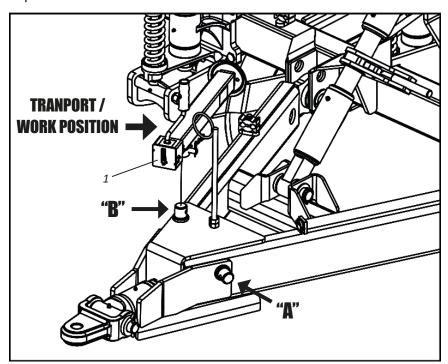


Hitch

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

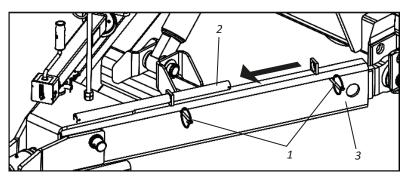
DO NOT work to transport the SCB-CR with the support bracket (1) on point "A". Ignoring this warning may cause damage or serious accidents.

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).



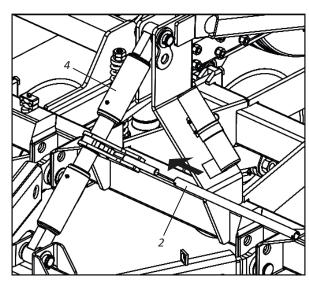
03 - The fasten the tube (2) to the regulator (4) and level the SCB-CR.

ATTENTION

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

O IMPORTANT

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

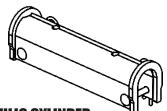




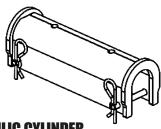
Adjustments

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 Ø41,27 MM TYNE

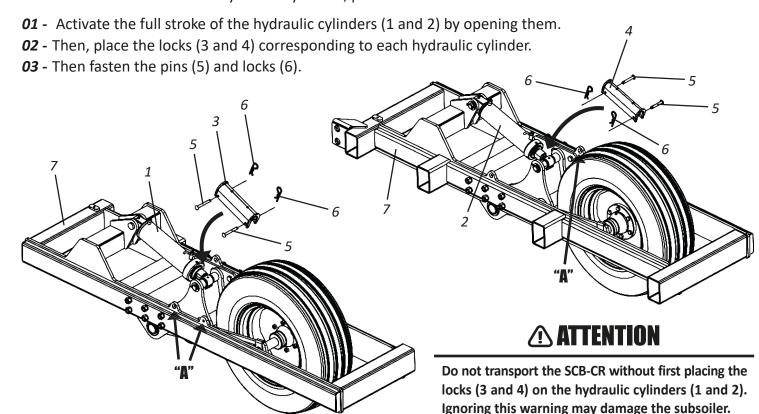


BIGGER HYDRAULIC CYLINDER FOR Ø2" TYNE

O 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:



ONOTE

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:

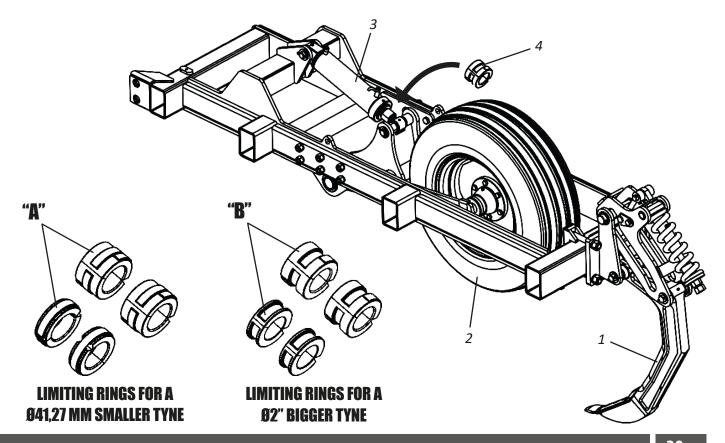
- 01 First, determine the working depth of the tynes (1).
- 02 Then, lift the wheels (2) through the hydraulic cylinders (3) to the specified extent, place the limit rings (4) on the tynes of the hydraulic cylinders (3).

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.

O 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 de pth 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			



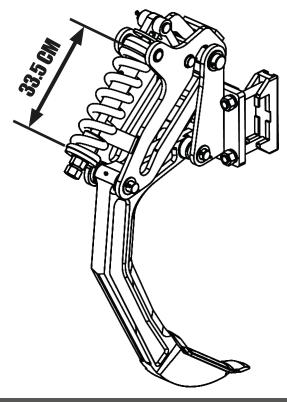
Adjustments

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

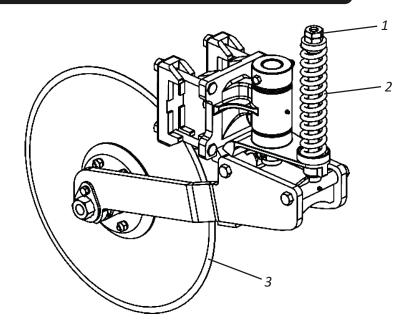
To adjust the pressure of the cutting disc, proceed as follows:

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).



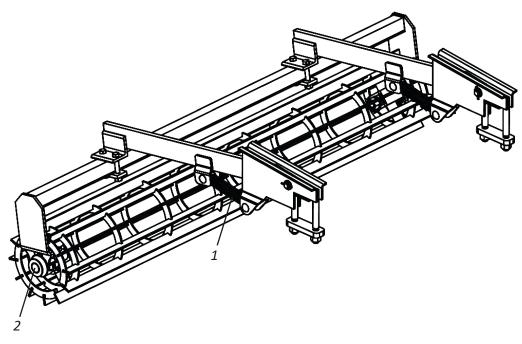


When adjusting the pressure of the cutting disc (3), take care not to cancel the articulation action.

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.



ATTENTION

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 textu re, 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 effici e ncy 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 v ari es 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 a gai nst unforeseen efforts.
- **06** When performing maneuvers, activate the hydraulic cylinder by fully lifting the subsoiler to avoid great effort in it and ove rlo ading 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



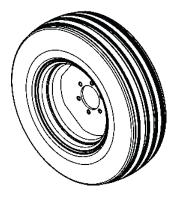
Maintenance

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.



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.

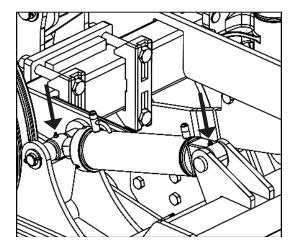
Grease table and equivalents

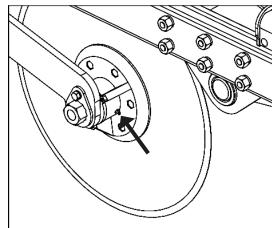
Manufacturer	Recommended grease types	
Petrobrás	Lubrax GMA-2	
Atlantic	Litholine MP 2	
Ipiranga	Ipiflex 2	
Castrol	LM 2	
Mobil	Grease MP	
Texaco	Marfak 2	
Shell	Alvania EP 2	
Esso	Multi H	
Bardahl	Maxlub APG-2EP	
Valvoline	Palladium MP-2	
	Tutela Jota MP 2 EP	
Petronas	Tutela Alfa 2K	
	Tutela KP 2K	

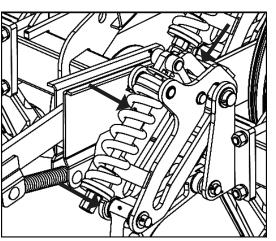
ATTENTION

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







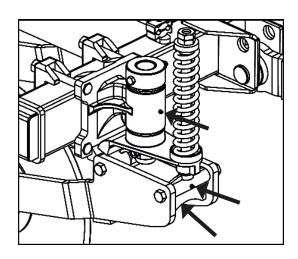


When lubricating the SCB-CR, do not exceed the amount of new grease. Insert a sufficient amount.

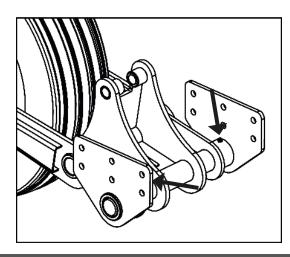


Maintenance

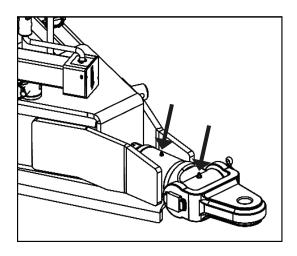
Lubrification every 10 hours of work - Part II

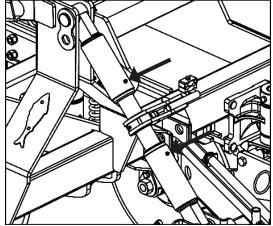


Lubrification every 24 hours of work

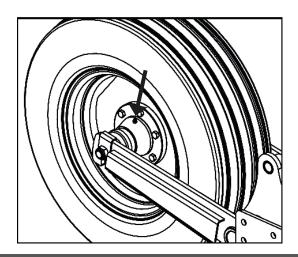


• Lubrification every 30 hours of work





Lubrification every 60 hours of work





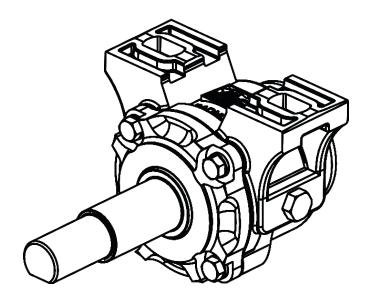
When lubricating the SCB-CR, do not exceed the amount of new grease Insert a sufficient amount.





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

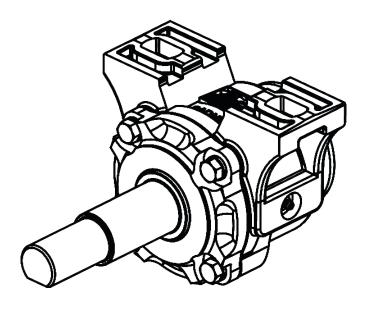
Change oil every 1200 hours of work using 0.090 liters.
Use transmission oil: 90 API GL4, MIL L 2105; SAEJ306, may/81: SAE 80W, 90 and 140.

ONOTE

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).

ONOTE

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.	
Chuanna naisa an unhaala	Loose wheels or wheel set.	Retighten wheel nuts and adjust wheel hub bearings.	
Strange noise on wheels.	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.	
	Thread sealing material is missing.	Use thread sealant and retighten carefully.	
Leaking hydraulic hoses.	Insufficient tightening.	Retighten carefully.	
	Damaged repairs.	Replace terminals.	
	Insufficient tightening.	Retighten carefully without excess.	
Leak in quick couplers.	Damaged repairs.	Replace repairs.	
Couplings of different brands.		Use couplings of the same brand.	
Quick couplings do not couple.	Mixture of needle couplings with ball couplings.	Always use couplings of the same type.	
	System pressure.	Relieve pressure to couple.	
	Oil with impurities.	Replace oil, repairs and filter element.	
Leaking hydraulic cylinders.	Working pressure higher than recommended.	Adjust the control using the relief valve with a pressure gauge.	
	Damaged repairs.	Replace repairs.	
	Damaged rod.	Replace rod.	



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.



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.



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.

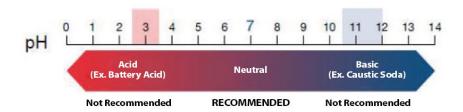
Subsoiler conservation - Part II

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);



- 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 note 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.



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



We recommend the following protective oils:

- Bardahl: Agro protective 200 or 300
- ITWChemical: Zoxol DW Series 4000

ONOTE

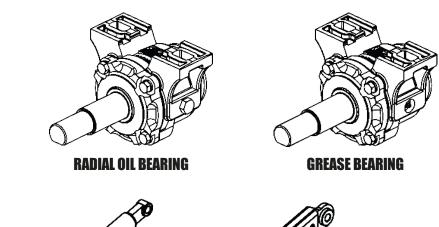
Ignoring the conservation measures mentioned above may result in the loss of warranty for painted or zinc-coated components which may exhibit oxidation (rust).

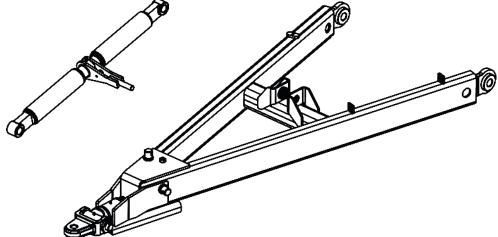


Optional

Optional accessories

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





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.



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: SCB00320C



Identification

Product Identification

Please make the correct identification of the data below, to always have information about the service life of your equipment.

Owner: _____

Dealer:
Property:
City:
State:
Certificate of Warranty no.:
Implement:
Serial No:
Purchase Date:
Invoice:

• <u>Notes:</u>		



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:			
	Number:		
City:	State:		
E-mail:			
1st copy - Owner			
131 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

Imploment

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.

Sarial Number

Implement	
Date:	Tax Number:
Dealer:	
	_ CEP:
City:	State:
Owner:	
Address:	Number:
City:	State:
E-mail:	
Sale date:	
Signature / Dealer Stamp	

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

9-6900'90'7L'V

AC MATÃO ECT/DR/SP

KESPONSE CARD

NO STAMPING IS REQUIRED

THE STAMP WILL BE PAID BY:



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

>> BALDAN

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