

CRI-A

Foldering Off-set Disc Harrow Remote Control



Presentation

e thank you for your preference and congratulate you on the excellent choice you have just made, as you have purchased a product manufactured with BALDAN IMPLEMENTOS AGRÍCOLAS S/A technology.

This manual will guide you through the necessary procedures from its acquisition to the operational procedures for use, safety and maintenance.

BALDAN guarantees that it has delivered this implement to the dealer in its entirety and in perfect condition.

The dealer undertook the responsibility for its safekeeping and conservation during the period it was in their possession, and also for the assembly, retightening, lubrication, and general overhaul.

During technical delivery, the dealer must advise the user customer on maintenance, safety, their obligations in the event of technical assistance, strict observance of the technical assistance, strict observance of the warranty and reading of the instruction manual.

Any request for technical assistance under warranty should be made to the dealer from whom it was purchased.

We reiterate the necessity of carefully reading the warranty certificate and the observance of all items in this manual, because by doing so you will be increasing the lifespan of your implemen.



Instruction



CRI-A

Foldering Off-set Disc Harrow 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 nameplate of your equipment and access this Instruction Manual online.





■ <u>Index</u>

BALDAN WARRANTY	07
GENERAL INFORMATION	08
To the owner	08
SAFETY STANDARDS	09
To the operator	09 - 12
WARNINGS	13 - 14
COMPONENTS	15
CRI-A - Foldering Offset Disc Harrow Remote Control	15
DIMENSIONS	16
CRI-A	16
SPECIFICATIONS	17
CRI-A - Foldering Offset Disc Harrow Remote Control	17
ASSEMBLY	18
Wrench set	18
Assembling the disc section	19
Assembling the disc section - CRI-A 40, 44 and 48 discs	20
Assembling the central frames on the upright	21
Mounting the disc sections on the central frames	22
Assembling the side frames	23
Mounting the disc sections on the side frames	24
Wiper assembling	25
Wheel axle support assembly	26
Tire assembling	27
Hitch header assembly	28
Assembling stabilizer bar	29
Assembling of central hydraulic cylinders	30
Assembly of the side hydraulic cylinders	31
Assembly of internal hydraulic cylinders	32
Mounting the signage plate	33
Hydraulic system assembly - CRI-A 40 and 44 discs	34
Hydraulic system assembly - CRI-A 48 discs	35
HITCH	36
Harrow hitch to tractor drawbar	36
ADJUSTMENTS	37
Hydraulic system adjustment	<i>37 - 38</i>
Harrow opening adjustment	39 - 40
Harrow displacement adjustment	41
Crossbar adjustment	42



■ Index

Adjusting the stabilizer bar and stabilizer bar support	43
TRANSPORT	44
Transport	44 - 45
WORK	46
Work	46 - 47
OPERATIONS	48
Recommendations for operation	48 - 49
Direction of maneuvers	49
How to start harrowing	50
Grid from outside to inside	50
Grid from inside to outside	51
Fields with contour lines	51
CALCULATIONS	52
Approximate hourly production	52
MAINTENANCE	53
Tire pressure	53
Lubrication	54
Lubricate every 24 hours of work	55 - 56
Disc section bearing adjustments	57
Grease bearing	58
Axial bearing	58
Periodic maintenance	59
Operational maintenance	60 - 62
Care	63
General cleaning	63 - 64
Harrow conservation	64 - 65
OPTIONAL	66
Optional accessories	66
IDENTIFICATION	67
Identification plate	67
Product identification	68
NOTES	69
CERTIFICATE	70
Marranty cartificate	70 - 76



Baldan Warranty

BALDAN IMPLEMENTOS AGRÍCOLAS S/A, guarantees the normal operation of the implement to the reseller for a period of 6 (six) months from the date of delivery on the resale invoice to the first end consumer.

During this period **BALDAN** undertakes to repair defects in material and or workmanship of its responsibility, with labor, freight and other expenses being the responsibility of the dealer.

During the warranty period, the request and replacement of any defective parts should be made to the dealer in the region, who will send the defective part for analysis at **BALDAN**.

When such a procedure is not possible and the dealer's capacity for resolution has been exhausted, the dealer will request support from **BALDAN's** Technical Assistance, through a specific form distributed to the dealers.

After **BALDAN's** Technical Assistance has analyzed the replaced items and concluded that they are not under warranty, then the dealer will be responsible for the costs related to the replacement, as well as the costs of material, travel including lodging and meals, accessories, lubricants used, and other expenses arising from the call to Technical Assistance, and **BALDAN** is authorized to make the respective billing on behalf of the dealer.

Any repairs made to the product that is within the warranty period by the dealer will only be authorized by **BALDAN** upon prior presentation of a budget describing the parts and labor to be executed.

It is excluded from this term the product that undergoes repairs or modifications in officials that do not belong to the **BALDAN** dealer network, as well as the application of non-genuine parts or components to the user's product.

This warranty will become void when it is found that the defect or damage is the result of 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, cardans, hydraulic components, etc., which are equipment guaranteed by their manufacturers.

The manufacturing and or material defects, object of this warranty term, will not constitute, under any hypothesis, reason for rescission of the purchase and sale contract, or for indemnity of any nature.

BALDAN reserves the right to alter and/or improve the technical characteristics of its products, without prior notice, and without obligation to do so with products previously manufactured.



General Information

To the owner

BALDAN IMPLEMENTOS AGRÍCOLAS S/A, is not responsible for any damage caused by accident resulting from the use, transport or improper or incorrect storage of your implement, either by negligence and/or inexperience of any person.

Only people who have full knowledge of the tractor and the implement should transport and operate them.

BALDAN is not responsible for any damage caused in unforeseeable situations or outside the normal use of the implement.

Improper handling of this equipment can result in serious or fatal accidents. Before putting the equipment into operation, carefully read the instructions contained in this manual. Make sure that the person responsible for the operation is instructed in the correct and safe handling. Also make sure that the operator has read and understood the product's instruction manual.



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

This Regulating Norm has the objective of establishing the precepts to be observed in the organization and in the work environment, in a way that is compatible with the planning and development of the activities of agriculture, livestock, forestry, forest exploration, and aquiculture with the safety and health and environment of the work.

MR. OWNER OR OPERATOR OF THE EQUIPMENT.
Read and comply carefully with the contents of NR-31.

For more information, visit the website and read NR-31 in full. http://portal.mte.gov.br/legislacao/normas-regulamentadoras-1.htm

O8 CRI-A



Safety standards

To the operator



THIS SYMBOL INDICATES AN IMPORTANT SAFETY WARNING. IN THIS MANUAL, WHENEVER YOU FIND IT, PLEASE READ THE FOLLOWING MESSAGE CAREFULLY AND BE AWARE OF THE POSSIBILITY OF PERSONAL ACCIDENTS.

M

ATTENTION



Read the instruction manual carefully to learn the recommended safety practices.

ATTENTION



Only start operating the tractor when you are properly seated and with your seat belt fastened.

ATTENTION



Do not transport people on the tractorr in or on the equipment.

ATTENTION



There is a risk of serious injury from tipping over when working on sloping ground.

Do not use excessive speed.

?\ ATTENTION



Do not work with the tractor if the front is without enough ballast for the rear equipment. If there is a tendency for lifting, add weights or ballasts to the front or front wheels.

ATTENTION



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

ATTENTION



Be careful when handling the CRI-A support leg, there is a risk of accidents.



Safety standards

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



ATTENTION



Do not make adiustments while the CRI-A is running.

When carrying out any work on the CRI-A. switch off the tractor first.

Use suitable tools.

ATTENTION



When looking for a possible leak in the hoses, use a piece of cardboard or wood. never use your hands. Avoid incising fluid into the skin.

ATTENTION



When transporting the CRI-A, do not exceed a speed of 16 Km/h or 10 MPH, to avoid the risk of damage and accidents.

• ATTENTION





When working with the CRI-A, do not exceed a speed of 12 Km/h or 7 MPH, to avoid the risk of damage and accidents.



?∖ ATTENTION



Remove the ignition key before carrying out any maintenance on the CRI-A. Protect yourself from possible injury or death, caused by an unforeseen departure of the CRI-A.

If the CRI-A is not properly hitched, do not start the tractor.

ATTENTION



Hydraulic oil under pressure can cause serious injury if it leaks.

Periodically check the condition of the hoses. If there are signs of leaks, replace it immediately. Before connecting or disconnecting the hydraulic hoses, relieve the pressure in the system by operating the control with the tractor switched off.



Safety standards



ATTENTION



Always keep access and work areas clean of residue such as oil or grease, as this can cause accidents.

ATTENTION



Before starting work or transporting the CRI-A, check whether there are any people or obstructions near it.



ATTENTION



Avoid heating parts near fluid lines.

Heating can cause the material to become

brittle, break and the pressurized fluid to escape, which can cause burns and iniuries.



ATTENTION



Keep the hinge area free while the CRI-A is in operation.

On sharp bends avoid the tractor wheels

touching the header.

ATTENTION



Never weld the assembled wheel to the tire, as the heat can cause the air pressure to rise and the tire to explode.

When inflating the tire, stand next to the tire, never in front of it.

When inflating the tire, always use a containment device (inflation jaw).



ATTENTION



Always keep away from the CRI-A active elements (discs), as they are sharp and can cause accidents.

When carrying out any work on the discs, wear safety gloves on your hands.

ATTENTION



Disposing of waste improperly affects the environment and ecology, as it pollutes rivers, canals and the soil.

Find out the correct way to recycle or dispose of waste.

PROTECT THE ENVIRONMENT!



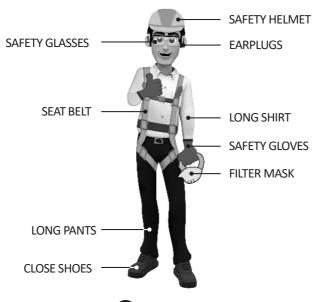
Safety standards

PPE equipment



DO NOT WORK WITH THE CRI-A WITHOUT FIRST PUTTING ON THE EPIS (SAFETY EQUIPMENT). IGNORING THIS WARNING COULD CAUSE DAMAGE TO YOUR HEALTH, SERIOUS ACCIDENTS OR DEATH.

When carrying out certain procedures with the CRI-A, wear the following PPE (Safety Equipment):



IMPORTANT

Safety practices must be carried out at all stages of working with the CRI-A, thus avoiding accidents such as the impact of objects, falls, noise, cuts and ergonomics, i.e. the person responsible for operating the CRI-A is subject to internal and external damage to their body.

NOTE All PPE (Safety Equipment) must have a certificate of authenticity.

















Warnings

Mhen operating the CRI-A, do not allow people to stand too close to or on it.

Never stand near a CRI-A in operation; there is an imminent risk of trampling and lacerations.

• Wear PPE when carrying out any maintenance work.

• Before connecting or disconnecting the hydraulic hoses, relieve the system pressure by operating the control with the tractor switched off.

Periodically check the condition of the hydraulic hoses. If there are signs of an oil leak, replace the hose immediately, as oil works under high pressure and can cause serious accidents.

non't wear clothes that are too loose, as they may get tangled in the CRI-A.

• When starting the tractor engine, be properly seated in the operator's seat and fully aware of the correct and safe handling of both the tractor and CRI-A. Always put the gearshift lever in the neutral position, disconnect the PTO control gear and put the hydraulic controls in the neutral position.

① Do not start the tractor engine in a closed space without adequate ventilation, as the exhaust gases are harmful to health.

• When maneuvering the tractor to hitch the CRI-A, make sure you have the necessary space and that no one is too close, always maneuver at low speed and be prepared to brake in an emergency.

1 Do not make adjustments with the CRI-A in operation.

• When working on slopes, proceed with caution and always try to maintain the necessary stability. If you start to feel unbalanced, reduce acceleration, turn the wheels to the side of the slope and never lift the CRI-A.

Always drive the tractor at speeds compatible with safety, especially when working on rough soil or slopes, always keep the tractor hitched.

• When driving the tractor on roads, keep the brake pedals connected.

① Do not operate the tractor with a light rear end. If the rear has a tendency to lift, add more weight to the rear wheels.

• When leaving the tractor, put the gearshift lever in neutral and apply the parking brake. Never leave the CRI-A hitched to the tractor in the raised position of the hydraulic system.

Any maintenance on the CRI-A must be carried out when it is stationary and the tractor is switched off.

No not transport or work with the CRI-A near obstacles, rivers or streams.



Warnings

1 Do not drive on highways, especially at night. Use warning signs all along the route.

If you need to travel with the CRI-A on the roads, check with the traffic authorities.

① Do not allow people to use the CRI-A who have not been trained, i.e. who do not know how to operate it correctly.

People may not be transported in self-propelled machines and implements.

Changes to the original characteristics of the CRI-A are not permitted, as they may alter the safety, operation and affect service life.

Read all the safety information in this manual and on the CRI-A carefully.

Read or explain all the procedures in this manual to an operator who cannot read.

Always check that the CRI-A is in perfect working order. In the event of any irregularity that may interfere with the operation of the CRI-A, have it serviced before any work or transportation is carried out.

Maintenance and especially inspection in CRI-A risk zones should only be carried out by a trained or qualified worker, observing all the safety guidelines. Before starting maintenance, disconnect all drive systems from the CRI-A.

Periodically check all the components of CRI-A before using it.

① Depending on the equipment used and the working conditions in the field or in maintenance areas, precautions are necessary. Baldan has no direct control over precautions, so it is the owner's responsibility to put safety procedures into practice while working with the CRI-A.

Check the minimum tractor power recommended for each CRI-A model. Only use a tractor with power and ballast compatible with the load and topography of the soil.

• When transporting the CRI-A, travel at speeds compatible with the soil and never more than 16 km/h. This reduces maintenance and consequently increases the CRI-A lifespan.

Alcoholic beverages or certain medications can cause a loss of reflexes and alter the operator's physical condition. Therefore, never operate this CRI-A while using these substances.

Read or explain all the procedures in this manual to the user who cannot read.

If you have any questions, please contact After Sales. Telefone: 0800-152577 / E-mail: posvenda@baldan.com.br

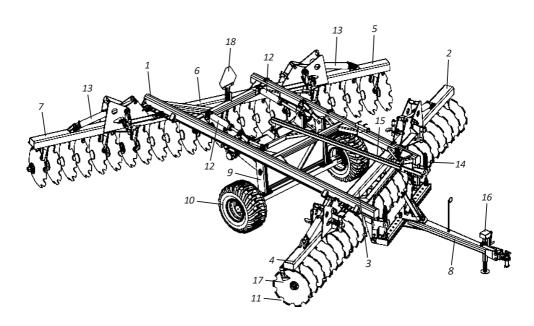


Components

• CRI-A - Foldering Offset Disc Harrow Remote Control

- 1. Stiener
- 2. Left side front frame
- 3. Center front frame
- 4. Right side front frame
- 5. Left side rear frame
- 6. Center rear frame
- 7. Right side rear frame
- 8. Coupling header
- 9. Articulation shaft support

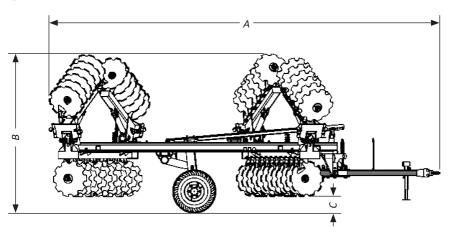
- **10.** Tires
 - 11. Discs
 - 12. Wheel articulation pistons
 - 13. Side articulation pistons
- 14. Stabilizer rod
- 15. Lifter stabilizer bar
- 16. Lift support (mechanical jack)
- 17. Cleaners
- 18. Sign plate

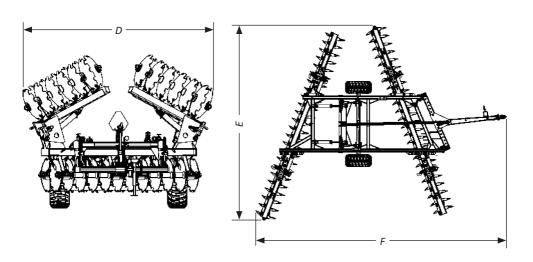




Dimensions

• CRI-A





Model	Nr de Discs	Measure A (mm)	Measure B (mm)	Measure C (mm)	Measure D (mm)	Measure E (mm)	Measure F (mm)
CRI-A	40	6985	3352	335	3405	5283	7400
CRI-A	44	6985	3423	335	3405	5795	7501
CRI-A	48	7832	2995	323	4237	6372	8290



Specifications

• CRI-A - Foldering Offset Disc Harrow Remote Control

	Model	Nr of Discs	Disc Spacing	Working Working g Width Depth		Approx. Weight (Kg)		Tractor Power
		Discs	(mm)	(mm)	(mm)	26"	28"	(HP)
CRI-A		40	270	5290	150 - 250	5461	5554	240 to 260
	CRI-A	44	270	5840		5623	5791	264 to 280
	48	270	6390		-	6281	288 to 303	

 Axle diameter (ø)
 1.5/8"

 Disc diameter (ø)
 26" - 28"

 Spherical disc blade (mm)
 6,0 and 7,5

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 manufactured products. The technical specifications are approximate and are given under normal working conditions.

INTENDED USE OF CRI-A

- The **CRI-A** was developed with tubular beams made of the highest quality, high-strength steel. Its wheels are connected to cylinders and facilitate maneuvering operations, depth control and long-distance transportation, making its work unmistakable.
- The **CRI-A** must only be driven and operated by a properly trained operator.

UNAUTHORIZED USE OF CRI-A

- To avoid damage, serious accidents or death, DO NOT carry people on any part of the CRI-A.
- You may NOT use the CRI-A to attach, tow or push other implements or accessories.
- The **CRI-A** must NOT be used by an inexperienced operator who does not know all the driving, control and operating techniques.



Assembly

The CRI-A leaves the factory disassembled. To assemble it, follow the instructions below:

The assembly of the **CRI-A** must be installed by the resale, using people who are trained, enabled and qualified for this job.

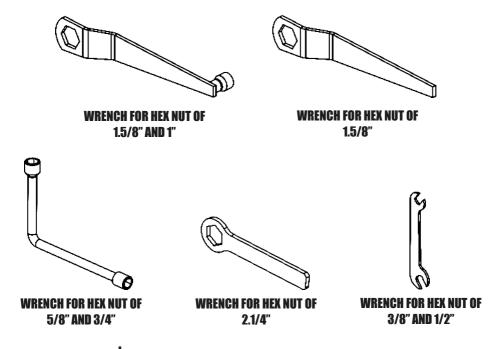
⚠ Before starting to assemble the **CRI-A**, look for an ideal location, where it is easy to identify the parts and assemble them.

⚠ Do not wear loose clothing, as these may become entangled in the CRI-A.

① Use PPE (Safety Equipment).

Wrench set

When assembling, disassembling or servicing the **CRI-A**, use the wrench set supplied with the grid. The wrench set consists of:



ATTENTION

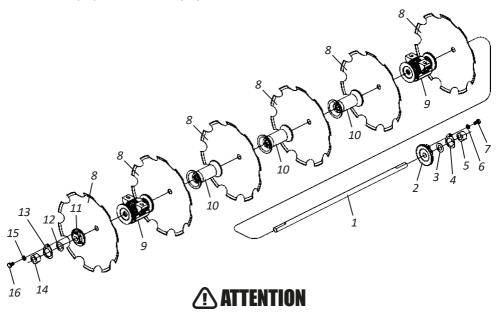
If any wrench is lost or broken, get another one immediately. Always use original Baldan wrenches.



Assembling the disc section

When starting to assemble the CRI-A, always start with the disk set, proceed as follows:

- 01 Place the concave thrust washer (2), flat washer (3), lock (4), nut (5) on the shaft (1), securing it with the pressure washer (6) and screw (7).
- **02** Then, place the disc (8), bearing (9), another disc (8), separator spool (10) on the shaft (1) and so on.
- 03 When the set is complete with all discs, bearings, separator spools, place the convex thrust washer (11), flat washer (12), lock (13), nut (14), tightening with the wrench until the entire the set.
- 04 Once this is done, fit the disc assembly and tighten the nut (14) using impacts. When you are almost achieving maximum tightness, adjust the lock (13) with the convex washer (11), always tightening the nut until the hole matches, fix it with the pressure washer (15) and the screw (16).



During the first week of using the CRI-A, retighten all disc section bolts and nuts daily, then retighten them periodically.



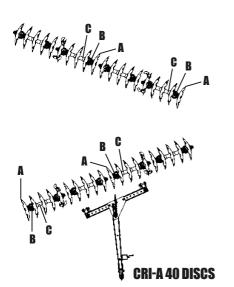
Check the correct side of the separator spools and bearings, according to the concavity of the discs.

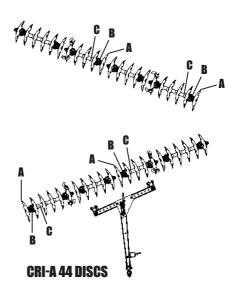


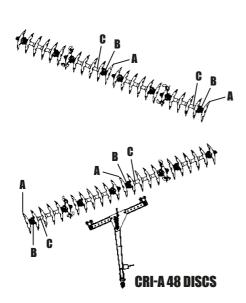
Assembly

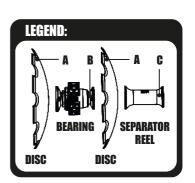
Assembling the disc sections

Check out the assemblies of the CRI-A 40, 44 and 48 disc sections below.







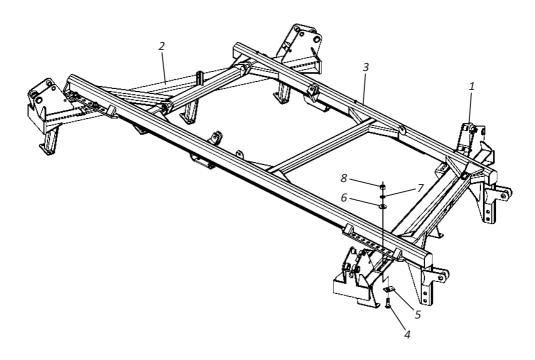




• Assembling the central frames on the upright

Start assembling the CRI-A from the central frames, to do this, proceed as follows:

- 01 Place the front center frame (1) and the rear center frame (2) on a flat, clean place.
- 02 Then, place the mount (3) over the front central (1) and rear central (2) frames, fixing them using the screw (4), lock (5), flat washer (6), pressure washer (7) and nut (8).



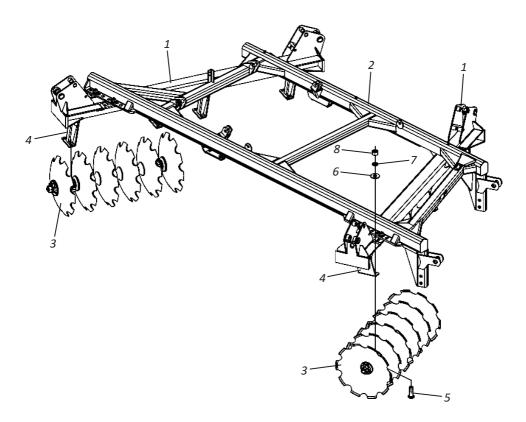


Assembly

• Mounting the disc sections on the central frames

After fixing the central frames (1) on the upright (2), fix the disc sections (3), to do this, proceed as follows:

- 01 Lift the front or rear part of the harrow and place the disc section (3) in line and match the holes in the shoes (4) with those in the bearings and fix them using the screws (5), flat washer (6), spring washer (7) and nut (8).
- **02** Then, lift the other part of the grid and repeat the operation, checking the concavity of the discs from one section to the other, which must be opposite.
- 03 When completing assembly, check that the shoes (4) are facing the disc concavity.





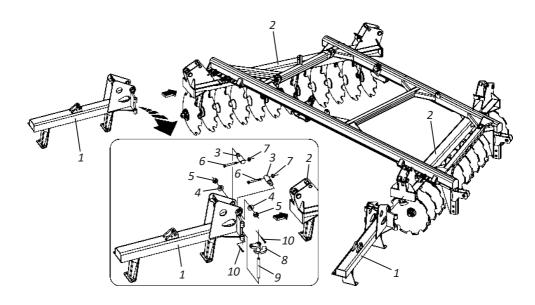
When mounting the disc sections to the frames, note that the frame shoes must face the disc concavity.



Assembling the side frames

To assemble the **CRI-A** side frames, proceed as follows:

- **01** Attach the side frames (1) to the central frames (2).
- 02 Then, place the pins (3), securing them using the plain washers (4) and nuts (5), locking them using the screws (6) and nuts (7).
- 03 Finish by placing the supports (8), securing them using pins (9) and cotter pins (10).





PIMPORTANTE Repeat this procedure to assemble the left side frames.

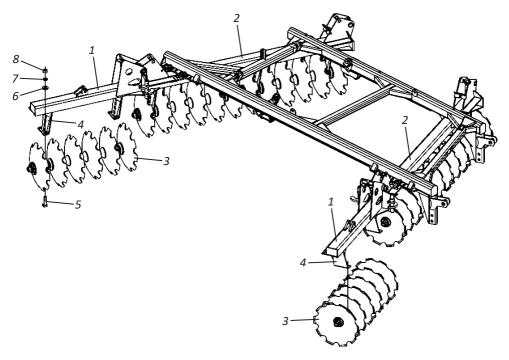


Assembly

• Mounting the disc sections on the side frames

After fixing the side frames (1) to the central frames (2), fix the disc sections (3), to do this, proceed as follows:

- 01 Lift the front or rear part of the harrow and place the disc section (3) in line and match the hole in the shoes (4) with those in the bearings and fix it using the screws (5), flat washer (6), spring washer (7) and nut (8).
- **02** Then, lift the other part of the grid and repeat the operation, checking the concavity of the discs from one section to the other, which must be opposite.
- 03 When completing assembly, check that the shoes (4) are facing the disc concavity.



ATTENTION

When mounting the disc sections to the side frames, note that the shoes must face the disc concavity.

O IMPORTANT

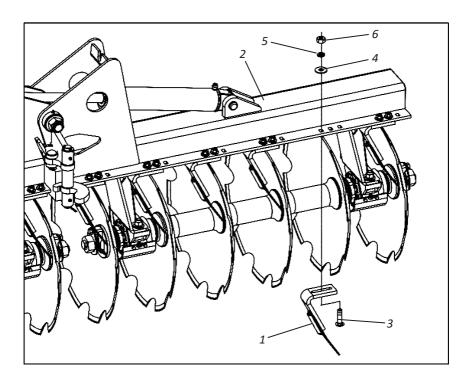
Repeat this procedure to assemble the disc sections to the left side frames.



Wiper assembling

After assembling the disc sections on the side frames, attach the wipers for this, proceed as follows:

01 - Place the cleaners (1) on the frames (2), securing them using screws (3), flat washers (4), spring washers (5) and nuts (6).





When assembling the wipers, they must be 0.5 to 1.0 cm away from the discs.

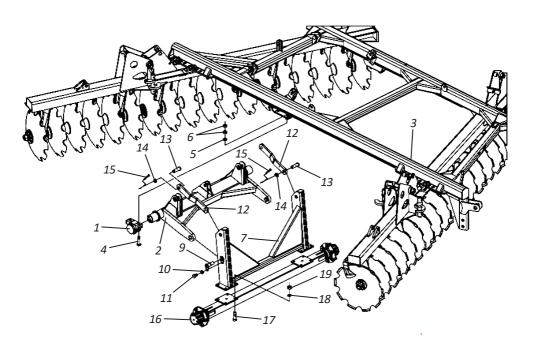


Assembly

• Wheel axle support assembly

After assembling the wipers, attach the wheel axle support to this, proceed as follows:

- **01** Attach the hub (1) to the tire articulation shaft (2) and secure the hub (1) to the upright (3) using the screws (4), spring washers (5) and nuts (6).
- **02** Then, attach the axle support (7) to the tire articulation axle (2), securing it using the pin (9), spring washer (10) and screws (11).
- **03** Then, the bars (12), on the axle support (7) and on the upright (3), fixing through the pins (13), smooth washers (14) and cotter pin (15).
- **04** Finish by attaching the shaft (16) to the shaft support (7), securing it using screws (17), spring washers (18) and nuts (19).

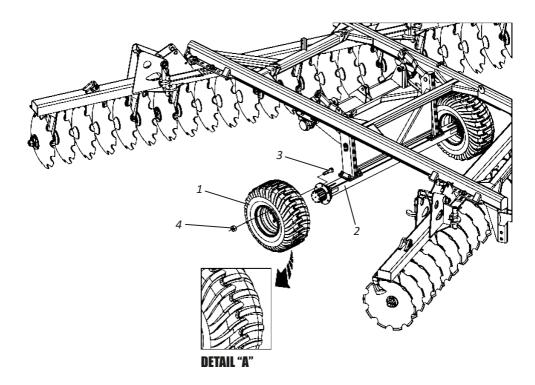




• Tire assembling

After assembling the wheel axle support, attach the tires for this, proceed as follows:

01 - Attach the tires (1) to the wheel axle (2) using screws (3) and nuts (4).





All tires must be mounted anti-traction, that is, with claws facing the front of the CRI-A, as per detail "A". Check on page 53 for correct tire inflation.

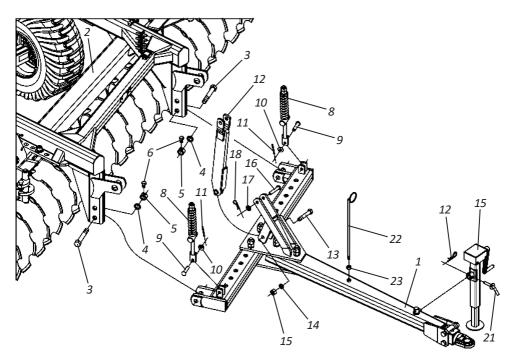


Assembly

Hitch header assembly

After mounting the tires, attach the hitch header to this, proceed as follows:

- **01** Attach the hitch header (1) to the upright (2) using the screws (3), spring washers (4) and nuts (5), locking with the screws (6).
- **02** Then, fix the rods (8) to the header (1) and the upright (2) using pins (9), washers (10) and cotter pin (11).
- **03** Then, attach the stabilizer bar support (12) to the header (1) using the screw (13), spring washer (14) and nut (15).
- **04** Next, fix the pin (16) to the header (1), locking the stabilizer bar support (12) using the plain washer (17) and lock (18).
- **05** Attach the mechanical jack (19) to the header (1) locking it with the pin (20) and lock (21).
- 06 Finally, place the hose support (22) and lock nut (23) on the header (1).

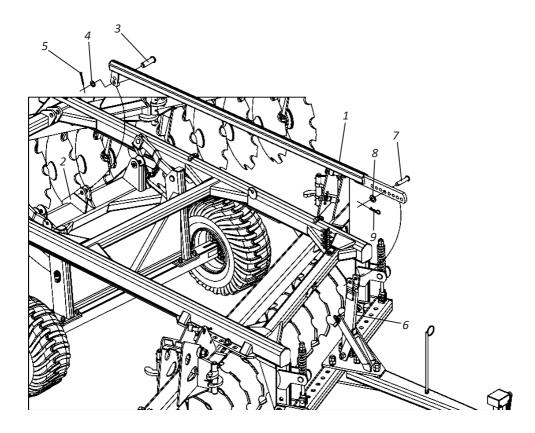




Assembling stabilizer bar

After assembling the hitch header, attach the stabilizer bar (1). To do this, proceed as follows:

- **01** Secure the rear part of the adjusting rod (1) to the articulation shaft (2) using the pin (3), plain washer (4) and cotter pin (5).
- **02** Then, fix the front part of the adjusting rod (1) to the rod support (6) using the pin (7), plain washer (8) and lock (9).



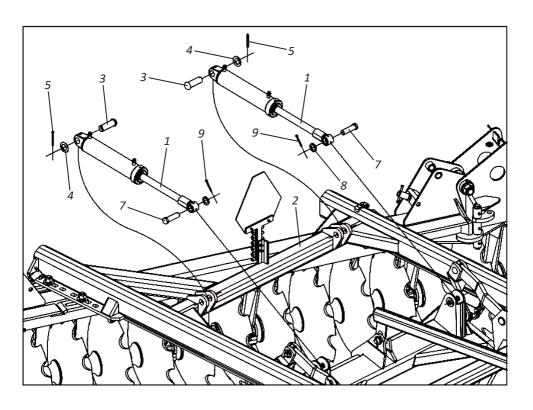


Assembly

• Assembly of central hydraulic cylinders

After assembling the stabilizer bar, attach the central hydraulic cylinders, to do this, proceed as follows:

- 01 Couple the bases of the hydraulic cylinders (1) to the upright (2) using pins (3), plain washers (4) and cotter pins (5).
- **02** Then, attach the hydraulic cylinder rods (1) to the wheel support (6), using pins (7), plain washers (8) and cotter pins (9).

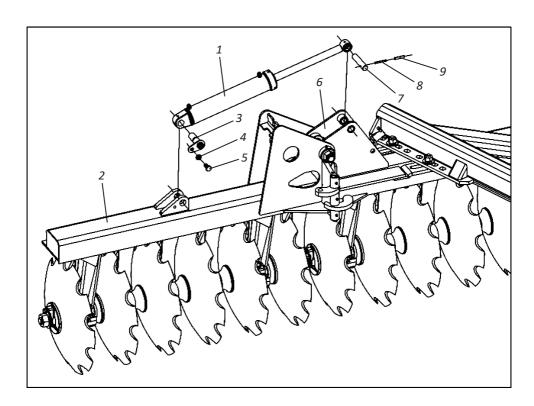




• Assembly of the side hydraulic cylinders

After assembling the central hydraulic cylinders, attach the lateral hydraulic cylinders. To do this, proceed as follows:

- **01** Attach the hydraulic cylinder bases (1) to the side frames (2) using pins (3), spring washers (4) and screws (5).
- **02** Then, couple the hydraulic cylinder rods (1) to the central frames (6), using pins (7), elastic pins (8) and (9).



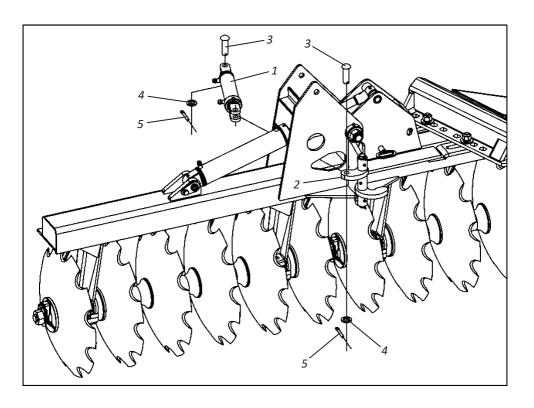


Assembly

• Assembly of internal hydraulic cylinders

After assembling the side hydraulic cylinders, fix the internal hydraulic cylinders, to do this, proceed as follows:

01 - Couple the hydraulic cylinders (1) to the locks (2) using pins (3), plain washers (4) and cotter pins (5).

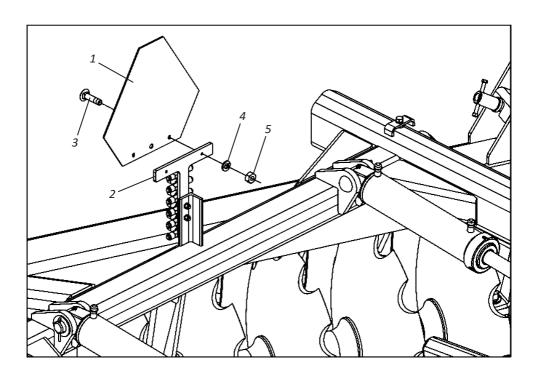




• Mounting the signage plate

After assembling the internal hydraulic cylinders, attach the signal plates (1). To do this, proceed as follows:

01 - Secure the signal plate (1) to the support (2) using screws (3), spring washers (4) and nuts (5).



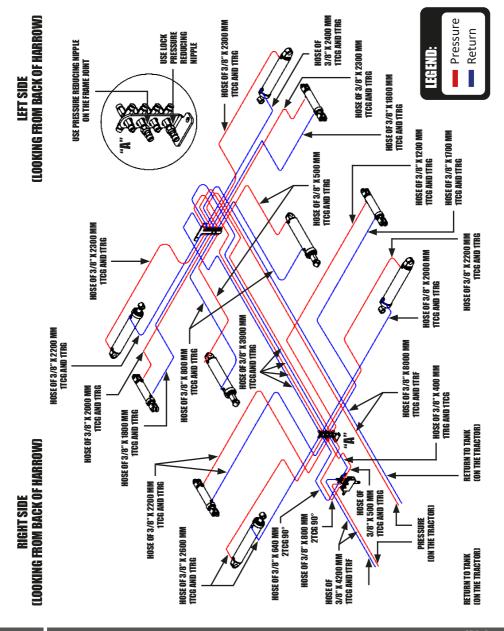


Do not drive the CRI-A on highways, especially at night, without the sign.



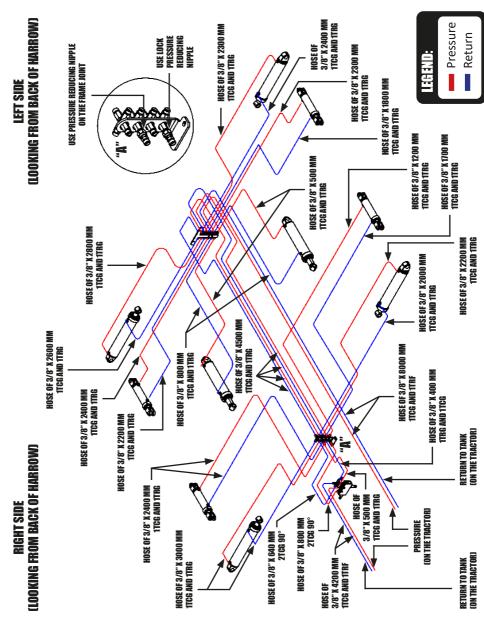
Assembly

• Hydraulic system assembly - CRI-A 40 and 44 discs





• Hydraulic system assembly - CRI-A 48 discs





Hitch

Harrow hitch to tractor drawbar

To attach the **CRI-A** to the tractor's drawbar, proceed as follows:

⚠ Before engaging the NVAM/NVAP, look for a safe and easily accessible place.

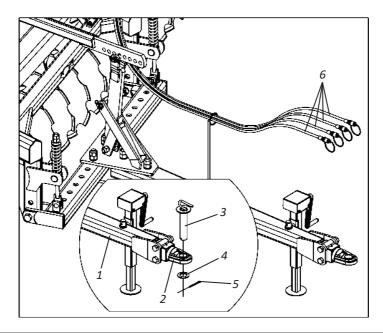
Always use low gear with low acceleration.

A Before connecting and disconnecting the hydraulic hoses, stop the engine and relieve the pressure in the circuit by fully activating the control levers.

⚠ Make sure that when relieving system pressure, no one is injured by moving the equipment.

Following the instructions, proceed as follows:

- **01** Level the **CRI-A** hitch header (1) in relation to the tractor hitch. Then, slowly approach the tractor to the harrow in reverse gear, paying attention to applying the brakes.
- **02** Hook the **CRI-A** to the tractor by securing it using the coupling pin (2), flat washer (3) and lock (4).
- 03 Finish by attaching the hoses (5) to the tractor's quick coupler.





Adjustments

Hydraulic System Adjustment - Part I

The **CRI-A** hydraulic system has a sequential valve to perform articulation, locking and unlocking operations of the frames in the same operation. To adjust the hydraulic system, proceed as follows:

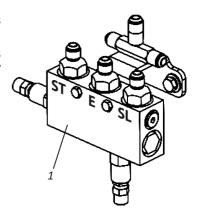
1st SEQUENTIAL VALVE BLOCK:

Analise a válvula (1) no qual deve constar os códigos gravados SL/E/ST.

Check the **SL/ST** acronyms carefully, as these acronyms represent the pressure in each cartridge (**SL**: 210 Bar/**ST**: 105 Bar).

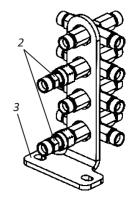
LEGEND:

SL = Lifting system E =Valve inlet ST = Locking system



2nd HYDRAULIC SYSTEM:

In the hydraulic system, it is essential that the hoses are correctly connected to the valve body, hydraulic cylinders, distributor and also that the pressure reduction nipples (2) are used on the distributor (3) to keep the system slower when lowering the frames and locking them.



3rd Hydraulic Drive:

After checking the previous items, test by gently operating the tractor lever to check that the valve is working properly.



If the system is not working properly, proceed as per the instructions on the following page.

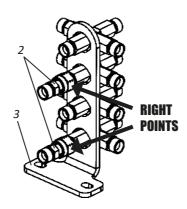


Adjustments

Hydraulic System Adjustment - Part II

4th VALVE ADJUSTMENT:

- **01** Check that the hose connections are correct according to the **CRI-A** model purchased (pages 34 and 35).
- **02** Check that the pressure reducing nipples (2) are attached to the correct points on the distributor (3).



- 03 Check the valve adjustment, to do this, proceed as follows:
 - 1) The ST cartridge must be fully open.
 - **2)** The **SL** cartridge should only be open 1 turn. If you have any doubts about this opening, adjust it again by closing the entire cartridge and then opening it one turn.
 - **3)** After the above procedures, carefully read the warning below to check the system.



If the tractor is adjusted to a pressure higher than 180 Bar and the lever is fully actuated at the start of operation, this may cause the valve to malfunction due to the spring adjustment pressures. The operator must feel the intensity of the actuation for the desired operation, since tractors have different settings for the hydraulic pressures of their systems.

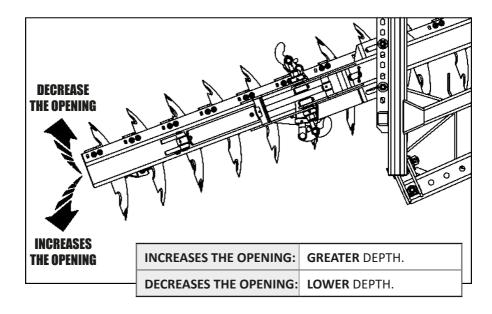


Adjustments

Harrow opening adjustment - Part I

To obtain ideal penetration of the discs into the soil, the opening of the **CRI-A** must be adjusted, which varies according to the type of soil:

TYPES	SOIL WITH GREATER DIFFICULTY TO PENETRATE:	THE CRI-A OPENING MUST BE INCREASED.
OF SOIL:	LIGHT AND LOOSE SOIL:	THE OPENING MUST BE DECREASED FROM CRI-A.



O IMPORTANT

To start the work, we recommend using a medium opening in the disc sections. If you need greater penetration, increase the opening angle of the rear section.

The front section generally does not operate with a larger opening than the rear section. The wheels also help control the depth of the discs.

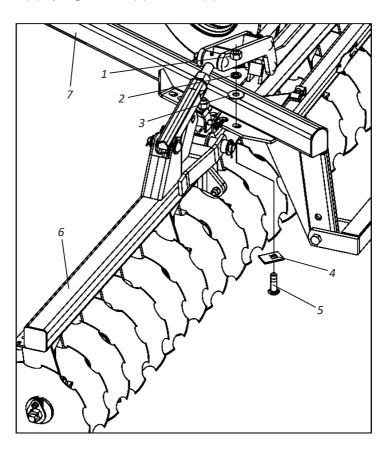


To INCREASE or DECREASE the CRI-A opening, proceed as instructed on the following page.



Adjustments

- Harrow opening adjustment Part II
- 01 Loosen the nuts (1), spring washers (2), flat washers (3), remove the locks (4) and screws (5).
- **02** Then, adjust the frames (6) by decreasing or increasing their opening.
- 03 Then, secure the frame (6) to the upright (7) again using screws (5), locks (4), flat washers (3), spring washers (2) and nuts (1).





We recommend controlling the working depth of the CRI-A by opening the disc sections and using the tires only in places where the CRI-A penetrates too much.

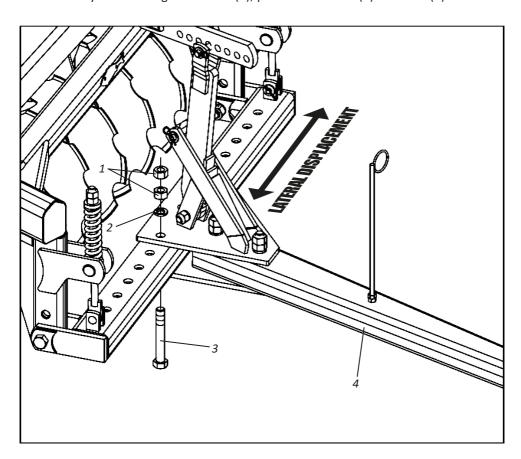


Adjustments

Harrow displacement adjustment

The **CRI-A** must be moved when the harrow is not providing a perfect finish, that is, leaving a tractor trail. For the harrow to work centered with the tractor's traction line, proceed as follows:

- 01 Loosen the nuts (1), lock washers (2) and remove the screws (3).
- **02** Then, move the coupling header (4) on the crossbar (5), making the ideal adjustment.
- 03 Finish by re-attaching the screws (3), pressure washers (2) and nuts (1).

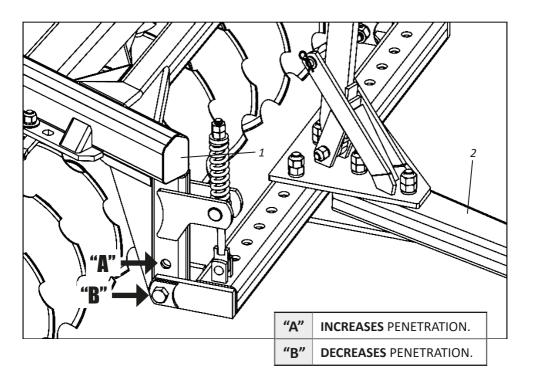




Adjustments

Crossbar adjustment

The **CRI-A** upright (1) has 2 (two) holes "A" and "B" on each side whose main purpose is to level the header (2) of the harrow in relation to the tractor's drawbar.





Adjustments

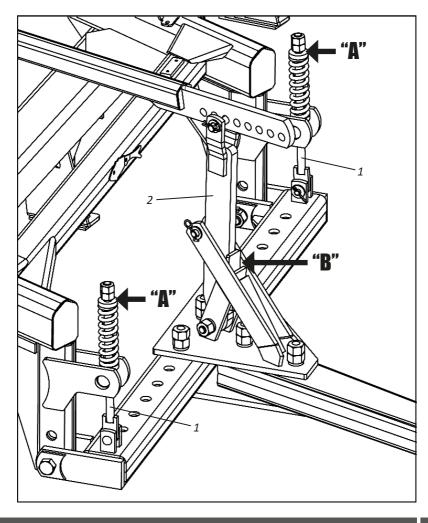
• Adjusting the stabilizer bar and stabilizer bar support

POINT "A"

On the stabilizer rod (1), leave a gap of **10 to 20mm** between the nut and the spring stop.

POINT "B"

On the stabilizer bar support (2), leave a gap of **10 to 20mm** between the stabilizer bar support and the abutment of the upper header plate.



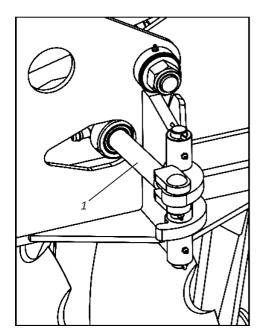


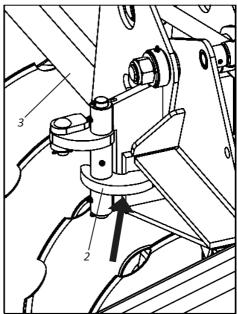
Transport

• Transport - Part I

Before transporting the CRI-A, proceed as follows:

- **01** First, activate the hydraulic cylinders (1) so that they move the support (2), unlocking the side frames (3).
- 02 Then, articulate the side frames (3).





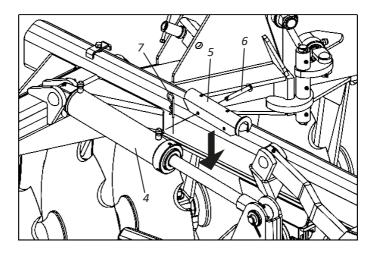
ATTENTION

When articulating the CRI-A, avoid people being close by, as there is a risk of accidents caused by possible mechanical or hydraulic failures causing the frame to lower quickly.

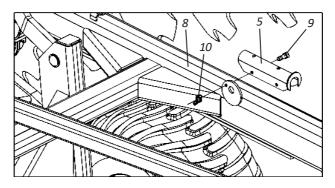


Transport

- Transport Part II
- 03 Then, operate the hydraulic cylinder rods (4) to the required measurement.
- **04** Place the lock (5) on the hydraulic cylinder rods (4) until it fills the entire space between the rod couplings and the hydraulic cylinder pistons (4) and secure it using the pin (6) and lock (7).



05 - When transporting the **CRI-A** is complete, remove the lock (5) from the hydraulic cylinder and secure it to the upright (8) using the screw (9) and wing nut (10).



ATTENTION

Do not transport the CRI-A without the lock (5) on the hydraulic cylinder (4) of the wheel set. Ignoring this warning may cause damage to the hydraulic cylinder (4).

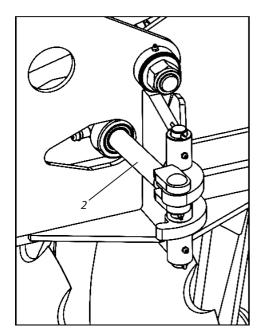


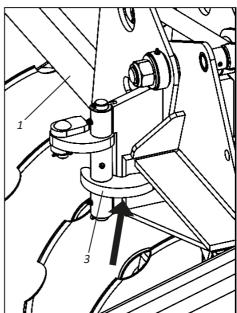
Work

• Work - Part I

Before starting work with CRI-A, proceed as follows:

- 01 First, dismantle the side frames (1).
- **02** Then, activate the hydraulic cylinders (2) so that they move the support (3), locking the side frames (1).





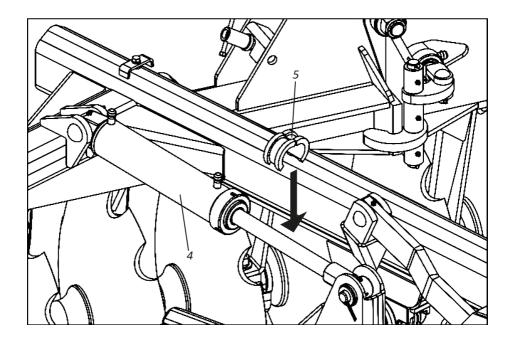
ATTENTION

When articulating the CRI-A, avoid people being close by, as there is a risk of accidents caused by possible mechanical or hydraulic failures causing the frame to lower quickly. Do not work with the CRI-A without locking the side frames (1).



Work

- Work Part II
- **03** Then, to limit the depth of the **CRI-A**, operate the hydraulic cylinder rods (4) to the required measurement.
- **04** Then, place the limit rings (5) on the hydraulic cylinder rods (4) until the entire space between the rod couplings and the hydraulic cylinder pistons (4) is filled.
- **05** When finishing work with the **CRI-A**, remove the limit rings (5) from the hydraulic cylinders (4).



O IMPORTANT

After adjustment, the CRI-A will always operate at the same depth, both on hard and loose ground, because the limit rings (5) are limiting the stroke of the hydraulic cylinders (4), i.e., preventing the wheels from oscillating.



Always place the same number of limit rings (5) on the two hydraulic cylinders (4) for lifting the wheels.



Operations

Recommendations for operation - Part I

Preparing the **CRI-A** and the tractor will save you time as well as a better result when working in the field. The following suggestions may be useful to you.

GRID STRUCTURE

After the first day of work with **CRI-A**, retighten all screws, nuts and check the condition of the pins and locks of the grid structure. Then carry out a general retightening of all screws and nuts on the grid structure every 24 hours of work.

DISC SECTIONS

Pay special attention to the **CRI-A** disc sections. During the first week of using the **CRI-A**, retighten all disc section bolts and nuts daily, then retighten them periodically.

GENERAL RECOMMENDATIONS

- **01** Adjust the tractor according to the contents of the instruction manual, always using the front and rear weights to stabilize the equipment.
- 02 Always couple it to the tractor at low speed and be very careful.
- **03** When using **CRI-A** it is important to check the coupling and transverse leveling system to make sure that the discs will have the same depth of penetration into the soil.
- 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 carried out with the CRI-A.
- **05** On the tractor, choose a gear that allows you to maintain a certain power reserve, protecting yourself against unforeseen efforts.
- 06 Respect the working and transport speeds specified on page 10. We do not recommend exceeding the speeds to maintain service efficiency and avoid possible damage to the CRI-A.
- **07** When performing maneuvers on the headlands, first activate the hydraulic cylinders gradually, lifting the disc sections.
- **08** Do not uncouple any hose without first relieving the pressure in the circuit; to do this, operate the control levers a few times with the engine off.
- 09 Remove sticks or any other object that could get stuck in the discs.



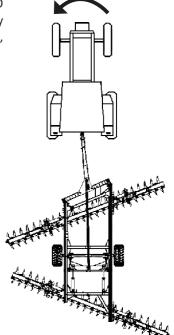
Operations

- Recommendations for operation Part II
- 10 In compacted terrain where it is difficult for the discs to penetrate, the depth may be minimal, making the work unsatisfactory. In these cases, it is recommended to apply other, more suitable products.
- 11 During work or transport, the tractor drawbar must remain fixed.
- **12** When carrying out any maintenance on the **CRI-A**, it must be lowered to the ground and the engine turned off.
- 13 CRI-A has several regulations, however, only local conditions can determine the best regulation.

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

Direction of maneuvers

During harrowing (with the discs on the ground), DO NOT maneuver to the right, as the angles formed by the disc sections place great effort on the equipment, especially the traction components.



O IMPORTANT

With the disc sections on the ground, it is necessary to maneuver on the left (closed side of the CRI-A) avoiding overloads and the formation of large undesirable ruts at the maneuver locations.



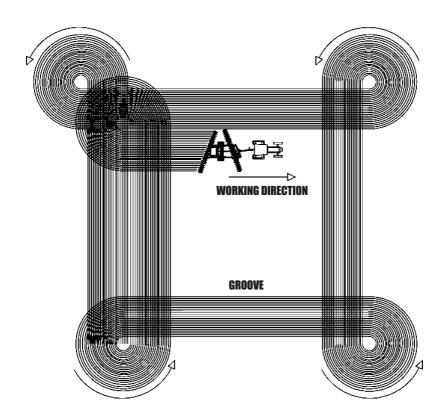
Operations

· How to start harrowing

When starting harrowing, you must always follow the terraces or contour line, starting the operation so that the terrace is always on the tractor driver's left side.

NOTE Before starting operations with the CRI-A, check it completely, retightening all screws, nuts, hose terminals, shafts and especially the disc sections.

Grid from outside to inside



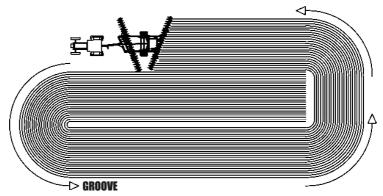
Try to drive the tractor in such a way as to obtain good performance between CRI-A passes. Avoid the formation of windrows or strips without fences.



Operations

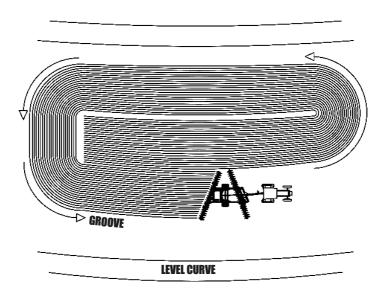
• Grid from inside to outside

In this sense, greater perfection is achieved. When you're walking a lot in the headwaters, it's a good idea to start another block.



Fields with contour lines

On land with a contour line, it is usual to start two plots at a time, taking care to start work with the contour line on the tractor driver's left side. When you reach the middle of the contour line, it is best to start another field to reduce fuel consumption.





Calculations

Approximate hourly production - Part I

To calculate the approximate hourly production of **CRI-A**, use the following formula:

$$A = \frac{L \times V \times F}{X}$$

WHERE:

A = Area to be worked

L = Grid working width (in meters)

V = Average tractor speed (in meters/hour) **F** = Production factor: 0.90

X = Value of the hectare: 10,000 m²

Example: An CRI-A 48 discos, how much Ha will it produce in one hour of work at an average speed of 7 km/h.

A = ?
$$A = \frac{6,39 \times 7.000 \times 0,90}{10.000} = 4,02 \text{ Ha/h}$$

L = 6,39 m

V = 7.000 m/h

F = 0.90

 $X = 10.000 \text{ m}^2$ (Calculated in hectare)

Model	Nr of Discs	Working Width (mm)	Average speed (m/h)	Production Factor	Approximate Production in Hectares Hour
	40	5290	7.000	0,90	3,33
CRI-A	44	5840	7.000	0,90	3,67
	48	6390	7.000	0,90	4,02

The formula to calculate approximate production refers to the calculation of areas to be worked or worked by CRI-A. If you want to know the time it will take to work an area of known value, simply divide the value of this area by the hourly production of CRI-A.

Example: How much time "X" will it take for an **CRI-A** grid of **48 discs** to produce 35 hectares, at an average speed of 7km/h?

$$X = 35 \text{ Ha} = 8,70 \text{ approximately hours to work } 35 \text{ hectares.}$$



The hourly production of CRI-A may vary due to factors that alter the work rhythm such as (soil humidity and hardness, terrain slope, inadequate adjustments and work speed).



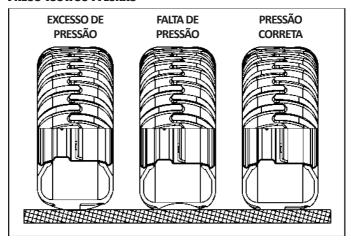
Maintenance

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

Tire pressure

Tires must always be properly inflated to avoid premature wear due to excess or lack of inflation.

PNEUS 400 X 60 14 LONAS



USAR: 52 LBS/POL²

ATTENTION

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

When inflating the tire, stand next to the tire, never in front of it.

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

Assemble the tires with suitable equipment. The work should only be carried out by people trained for the job.

O IMPORTANT

O NOTE

When inflating your tires, do not exceed the recommended inflation.

The tractor tires should be inflated according to the manufacturer's recommendations.



Maintenance

The **CRI-A** was developed to provide you with maximum performance over terrain conditions. Experience has shown that periodic maintenance of certain parts of the **CRI-A** is the best way to help you get out of trouble, so we suggest checking it out.

Lubrication

Lubrication is essential for a good performance and greater durability of the moving parts of the CRI-A, contributing to saving maintenance costs.

Before starting the operation, carefully lubricate all grease fittings, always observing the lubrication intervals on the next page. Ensure the quality of the lubricant, regarding its efficiency and purity, avoiding using products contaminated by water, earth and other agents.

• Table of greases and equivalents

Manufacturer	Type of recommended grease
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

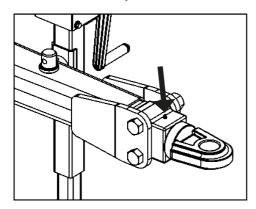


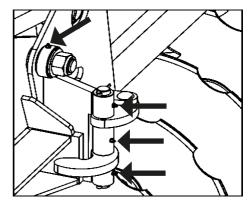
If there are manufacturers and/or equivalent brands that are not listed in the table, consult the manufacturer's technical manual.

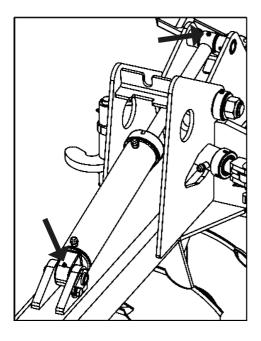


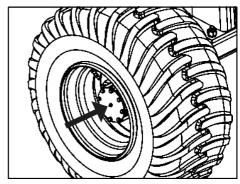
Maintenance

• Lubricate every 24 hours of work









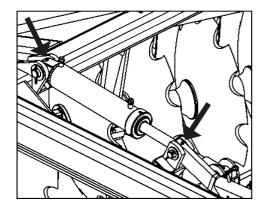
ATTENTION

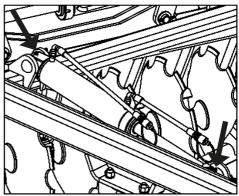
When lubricating the CRI-A, do not exceed the amount of new grease. Insert a sufficient amount.

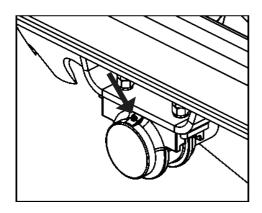


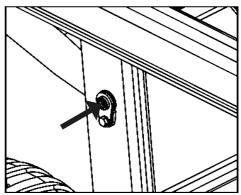
Maintenance

• Lubricate every 24 hours of work











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

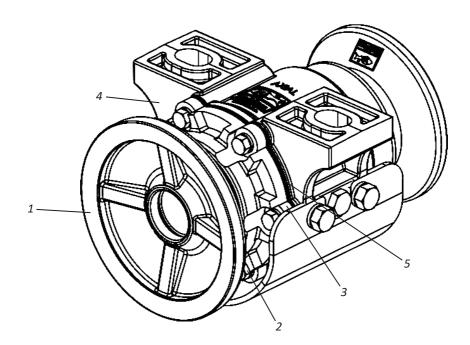


Maintenance

• Disc section bearing adjustments

When the disc section bearings show play, proceed as follows to adjust them:

- 01 Remove the washer (1).
- 02 Then, loosen the screws (2) and remove the cover (3) from the bearing (4).
- **03** Then, remove one or two gaskets (5) from the bearing cover (3) (4). Replace the cap (3) and tighten it again.
- **04** If the play persists, you can face the cover (3) to increase the adjustment, then mount it on the bearing with as many joints as necessary.
- 05 The bearing must rotate freely, that is, without play.





Do not assemble the bearing without the gaskets (5).



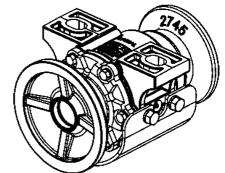
Maintenance

Grease bearing

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

ONOTE

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



ATENTION

The amount of grease in each bearing is 300 grams.

Use only grease: EP (Specification DIN51825 KP00K Consistency NLGI 2/3).

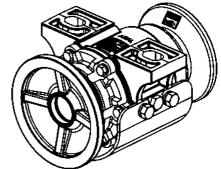
Axial bearing

In the first days of **CRI-A** work, check the bearing oil level daily, then check it every 120 hours of work.

O NOTE

The ideal oil level is when it reaches the plug hole.

To check the bearing oil level, look for a flat place.



ATTENTION

Replace the oil every 1200 hours of work using 0,270 liters.

Use transmission oil: 90 API GL4, MIL-L-2105; SAEJ306, May/81: SAE 80W,90 and 140.



Maintenance

• Periodic maintenance

		ımber ıse fitt			grease					
Description of parts	CRI-A 40	CRI-A 44	CRI-A 48	Oil change	Lubricate with g	Re-tighten	Replace	Check	Maintenance interval	
Shackle	1	1	1		Х					
Lift cylinder base	2	2	2		Х					
Lifting cylinder rod	2	2	2		Х				24 hours	
Articulation cylinder base	4	4	4		Х				24 110013	
Articulation cylinder rod	4	4	4		Х					
Wheel support bearing	3	3	3		Χ					
Mechanical jack	2	2	2		Χ				60 hours	
Bearings	-	-	-	Χ					1200 hours	
Hydraulic system	-	-	-					Х	40 hours	
Bearings	-	-	-					Χ	120 hours	
Axle bolts and nuts	-	-	-			Χ			50 hours	
Bolts and nuts	-	-	-			Χ			100 hours	
Retainers	-	-	-				Χ		1500 hours	
Bearings	-	-	-				Х		1500 hours	
Discs	-	-	-				Х		When	
Tires	2	2	2				Χ		necessary	



Maintenance

• Operational maintenance - Part I

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
The tires are	Work area with stones, stumps or crop residues with stems that cause the tires to crunch.	Eliminate the elements that cause damage to the tires before the CRI-A is used.
damaged.	The tires are not inflated properly, causing deformation.	Maintain proper tire pressure.
Strange noise in the	Loose wheels or wheel hub with exhaust.	Retighten the wheel nuts and adjust the wheel hub bearings hub bearings.
wheels.	Bearings break.	Identify the incident and replace the damaged parts.
Quick coupling does not adapt.	Different types of couplings.	Replace them with males and females of the same type.
Leaking	The thread is missing sealing material.	Use thread seal tape and carefully retighten.
hydraulic hoses.	Insufficient tightening.	Re-tighten carefully.
	Damaged terminals.	Replace terminals.
Leaking quick	The thread is missing sealing material.	Use thread seal tape and carefully retighten.
couplings.	Insufficient tightening.	Retighten carefully without excess.
	Damaged repairs.	Replace repairs.
	Damaged repairs.	Replace the repairs.
	Damaged stem.	Replace the stem.
Leakage in the hydraulic cylinder.	Oil with impurities.	Replace oil, repairs and filter elements.
,	Working pressure higher than recommended.	Adjust the control via the relief valve using a pressure gauge. Normal pressure 180 Bar.



Maintenance

• Operational maintenance - Part II

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
	Different brand couplings.	Use quick couplings of the same brand.
Quick couplings do not engage.	A mixture of needle-type and ball type couplings.	Always use the same type of quick coupler.
	Pressure in the system.	Ease the pressure to engage.
Tractor pulling to	Angle too large in the front section or too small in the rear section.	Reduce the angle of the front section or increase that of the rear section.
the right.	Oscillating drawbar leaning against the stop to the left.	Move the drawbar to the left.
	Very low speed for soil conditions.	Increase the speed.
Furrow being left open on the left.	Tractor being positioned too far to the right.	Position the tractor so that the left front disc is at the edge of the furrow.
	Incorrect adjustment of the disc sections laterally.	Move the rear section to the left or the front section to the right.
Formation of beds on the left.	Insufficient overlap. Incorrect rear section adjustment.	In the event of track formation, move the front section to the left or the rear section to the right.
Sections are not at harrowing level.	Front and rear sections are not operating at the same depth.	Adjust the angle of the disc sections.
	Very wet field.	Let the field dry or penetrate the disc superficially to help it dry.
Locked sections.	Adjustment of the sections with maximum angle.	Reduce the angle.
Locked Sections.	Very deep harrowing in damp soil.	Use toppers to reduce the depth. Lift the disc to reduce penetration.
	Wipers worn or incorrectly adjusted.	Adjust or change the wipers when necessary.



Maintenance

• Operational maintenance - Part III

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
	The soil is very wet.	Do not use CRI-A in very moist soil.
It's gathering a lot of dirt around the discs	The wipers are too far away from the discs.	Adjust the distance between the wipers and the discs.
	There is dry land stuck to the discs from previous works.	Remove excess soil stuck to the surface at the end of each job.
	Unlevel grid.	Level the CRI-A.
The discs do not	Hard, dry soil.	Subsoil before using CRI-A.
penetrate the ground.	The wheel set is not in the working position.	Retract the wheelset, leaving it in the working position.
	The discs are either unwired or extremely worn.	Replace the discs.
	Hoses connected incorrectly.	Connect them correctly as per pages 34 and 35.
	Valve out of adjustment.	Adjust the valve according to page 38.
Sequential hydraulic system	Hydraulic drive with intensity in lever movement.	Gently operate the tractor's hydraulic system lever.
does not work properly.	Tractor pressure regulated above 190 Bar.	Set the tractor pressure to 180 Bar.
	The pressure reducing nipples were not fitted to the distributor.	Assemble the pressure reducing nipples on the distributor as per page 37.
	The pressure reducing nipples were mounted at the wrong points on the distributor.	Install the pressure reducing nipples at the correct points on the distributor as per page 38.



Maintenance

- Care
- 01 Before each job, check the condition of all hoses, pins, screws, bearings, discs and sections. When necessary, retighten them.
- 02 Travel speed must be carefully controlled according to terrain conditions.
- 03 CRI-A is used in various applications, requiring knowledge and attention when handling it.
- 04 Only local conditions can determine the best way to operate CRI-A.
- 05 When assembling or disassembling any part of the CRI-A, use appropriate methods and tools.
- 06 Carefully observe the lubrication intervals at the various CRI-A lubrication points. Respect the lubrication intervals.
- 07 Always check the parts for wear. If replacement is necessary, always demand original Baldan parts.
- 08 Keep CRI-A discs sharp at all times.



Proper and periodic maintenance is necessary to ensure the long life of the CRI-A.

General cleaning - Part I

- 01 When storing CRI-A, clean it thoroughly and rinse it only with water. Check that the paint hasn't worn off, if it has, give it a general coat, apply the protective oil and lubricate the CRI-A thoroughly. Do not use burnt oil or any other type of abrasive.
- 02 Fully lubricate the CRI-A. Check all the moving parts of the CRI-A, and if they show any wear or looseness, make the necessary adjustments or replace the parts, leaving the harrow ready for the next job.
- 03 After all maintenance work, store the harrow in a covered, dry place, properly supported.

Avoid: - Discs coming into direct contact with the ground.

- The compression of the springs.
- Hydraulic hoses must be properly capped.



Maintenance

- General cleaning Part II
- 04 When connecting or disconnecting hydraulic hoses, do not let the ends touch the ground. Before connecting the hydraulic hoses, clean the connections with a clean, lint-free cloth. Do not use towels!
- 05 Replace all stickers, especially warning stickers that are damaged or missing. Make everyone aware of their importance and about the dangers of accidents when instructions are not followed.
- **06** After all maintenance care, store your **CRI-A** on a flat surface that is covered and dry, away from animals and children.
- 07 We recommend rinsing the CRI-A only with water when starting work.



Do not use chemical or abrasive products to wash the CRI-A, as this could damage its paintwork and adhesives.

Harrow conservation - Part I

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

- 01 Wash and clean all the grill components during and at the end of the working season.
- **02** Use neutral products to clean the grill, following the safety and handling guidelines provided by the manufacturer.
- 03 Always carry out maintenance at the times indicated in this manual.
 - Harrow conservation Part II

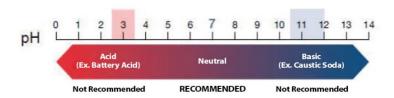
The following practices and precautions, if adopted by the owner or operator, make a difference to the conservation of **CRI-A**.

- 01 Take care when pressure washing; do not direct the water jet directly at connectors and electrical components. Isolate all electrical components;
- 02 Use only NEUTRAL water and detergent (pH equal to 7);
- **03** Apply the product, strictly following the manufacturer's instructions, on the wet surface and in the correct sequence, respecting the application and washing times;
- **04** Stains and dirt that cannot be removed with the products should be removed with a sponge.
- 05 Rinse the machine with clean water to remove all chemical residues.



Maintenance

- Harrow conservation Part III
- 06 Do not use: Detergents with a basic active ingredient (pH greater than 7), may damage/stain the harrow paintwork.
 - Detergents with an acidic active ingredient (pH less than 7) act as a paint stripper (the protection of parts against oxidation).



- 07 Let the machine dry in the shade so that no water accumulates in its components. Drying too quickly can cause stains on your paintwork.
- 08 After drying, lubricate all chains and grease fittings according to the recommendations in the operator's manual.
- 09 Spray the entire machine, especially galvanized parts, with protective oil, following the manufacturer's application guidelines. The protectant also prevents dirt from sticking to the machine, making it easier to wash later.
- 10 Observe the curing time (absorption) 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 protetivo 200 or 300 - ITWChemical: Zoxol DW - Série 4000

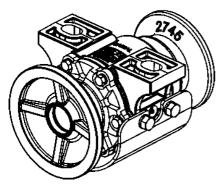
Failure to comply with the above maintenance measures may result in the loss of warranty on painted or galvanized components that may show oxidation (rust).



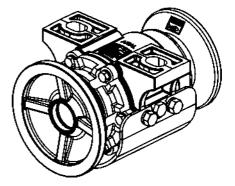
Optional

Optional Accessories

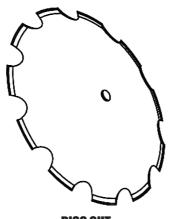
CRI-A has options that can be purchased according to your work requirements.



GREASE BEARING
WITH OR WITHOUT PROTECTION



AXIAL BEARING
WITH OR WITHOUT PROTECTION



DISC CUT 26" OR 28"



Identification

Identification plate

To consult the parts catalog or request technical assistance from Baldan, always indicate the model (01), serial number (02) and date of manufacture (03) found on the nameplate of your CRI-A.





The drawings contained in this instruction manual are for illustrative purposes.



If in doubt, never operate or handle your equipment without consulting After Sales.

Phone:0800-152577

e-mail: posvenda@baldan.com.br

PUBLICATIONS

Code: 60550107441 | CPT: CRIA05224A





Identification

Product Identification

Identify the data below correctly so that you always have information about the life of your equipment.

Owner:
Resale:
Farm:
City:
State:
Warranty certificate no:
Implement:
Serial No:
Date of purchase:
Invoice:





• <u>Notes</u>		



BALDAN IMPLEMENTOS AGRÍCOLAS S/A guarantees the normal operation of the implement to the dealer for a period of 6 (six) months from the date of delivery on the resale invoice to the first end consumer. During this period, **BALDAN** undertakes to repair material and/or manufacturing defects for which it is responsible, with labor, freight and other expenses being the responsibility of the dealer.

During the warranty period, any defective parts must be requested and replaced by the local dealer, who will send the defective part to **BALDAN** for analysis.

When this procedure is not possible and the dealer's ability to resolve the issue has been exhausted, the dealer will request support from **BALDAN Technical Assistance**, using the specific form distributed to dealers. Once Baldan Technical Assistance has analyzed the replaced items and concluded that they are not under warranty, the dealer will be responsible for the costs related to the replacement, as well as the costs of materials, travel including accommodation and meals, accessories, lubricant used and other expenses arising from the call to Technical Assistance, and Baldan is authorized to invoice the dealer. **BALDAN** will only authorize any repairs made to a product within the dealer's warranty period upon presentation of a quotation describing the parts and labor to be carried out.

This term does not apply to products that have been repaired or modified by officials who do not belong to the **BALDAN** dealer network, or to the application of non-genuine parts or components to the user's product. This warranty shall become null and void when it is established that the defect or damage is the result of improper use of the product, failure to follow the instructions or the inexperience of the operator.

It is agreed that this warranty does not cover tires, polyethylene tanks, cardans, hydraulic components, etc., which are equipment guaranteed by their manufacturers. Manufacturing and/or material defects, the subject of this warranty term, will not, under any circumstances, constitute a reason for termination of the purchase and sale contract, or for compensation of any nature.

BALDAN reserves the right to amend and/or improve the technical characteristics of its products, without prior notice, and without obligation to do so with previously manufactured products. .



Inspection and delivery certificate

SERVICE BEFORE DELIVERY: This implement has been carefully prepared by the sales organization, inspected in all its parts according to the manufacturer's instructions.

DELIVERY SERVICE: The user has been informed of the warranty terms in force and has been instructed in the use and maintenance of the product.

I confirm that I have been informed of the warranty terms in force and instructed on the correct use and maintenance of the implement.

Implement:	_ Serial No:
Date:	_ Tax No:
Resale:	
Phone:	_ Zip Code:
City:	State:
Owner:	
Phone:	
Address:	Number:
City:	State:
E-mail:	
Date of sale:	
Reseller's signature / stamp	



Inspection and delivery certificate

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I confirm that I have been informed of the warranty terms in force and instructed on the correct use and maintenance of the implement.

Implement:	_ Serial No:
Date:	_ Tax No:
Resale:	
Phone:	_ Zip Code:
City:	State:
Owner:	
Phone:	
Address:	Number:
City:	State:
E-mail:	
Date of sale:	
Reseller's signature / stamp	



Inspection and delivery certificate

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I confirm that I have been informed of the warranty terms in force and instructed on the correct use and maintenance of the implement.

Implement:	_ Serial No:
Date:	_ Tax No:
Resale:	
Phone:	_ Zip Code:
City:	State:
Owner:	
Phone:	
Address:	Number:
City:	State:
E-mail:	
Date of sale:	
Reseller's signature / stamp	

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

1.74.05.0059-5

AC MATÃO ECT/DR/SP

RESPONSE CARD

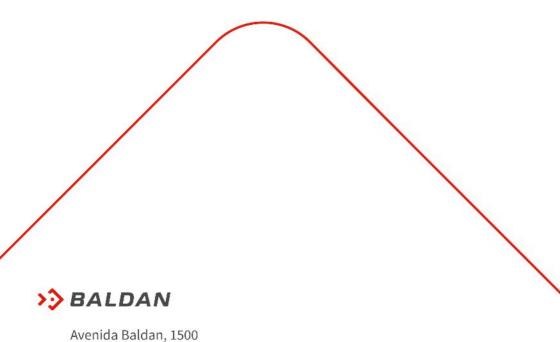
NOT REQUIRED SEAL

SEAL WILL BE PAID BY:



BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

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