

GCRTIS

Super Intermediate Tandem Remote Control Harrow



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.

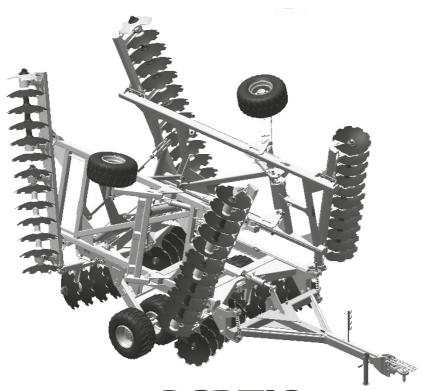
BALDAN assures that has delivered this implement for resale in full and in perfect conditions.

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 client about maintenance, safety, his/her 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.



GCRTIS

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Baldan's 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 shafts, 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 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 site and read in full NR-31. 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.

M

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 transport people or equipment on the tractor.

?∖ attention



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

?\ 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



Careful when handling GCRTIS support leg since there is risk of accidents.



Safety rules



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

ATTETION



Do not perform adjustments when GCRTIS is in operation.

When performing any service on GCRTIS, switch off the tractor first. Use appropriate tools.

ATTENTION



When transporting GCRTIS, do not exceed the 25 km/h or 15 MPH speed, avoiding risk of damages and accidents.

ATENÇÃO



Remove the ignition key before performing any type of maintenance in GCRTIS. Protect yourself against possible injuries or death caused by GCRTIS unexpected start-up.

Do not start up the tractor if GCRTIS is not properly coupled.

ATTENTION



When searching for a possible leakage on the hoses, use a piece of cardboard or wood, never use your hands. Avoid incision of fluid in the skin.

ATTENTION



When working with GCRTIS, do not exceed the 7 km/h or 4 MPH speed, avoiding risk of damages and accidents.

ATENÇÃO



Hydraulic oil works under pressure and may cause serious injuries if there are any leakages. Periodically check the

conservation status of the hoses. If there are any sign of leakage, replace them immediately. Before connecting or disconnecting the hydraulic hoses, relief the system pressure by activating the control with the tractor power switched off.



Safety rules



ALCOHOLIC BEVERAGE OR SOME MEDICATIONS MAY CAUSE LOSS OF REFLEXES AND CHANGE THE OPERATOR'S PHYSICAL CONDITIONS. FOR THIS REASON, NEVER OPERATE THIS EQUIPMENT UNDER ANY OF THESE SUBSTANCES.

ATTENTION



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

ATTENTION



Before beginning the work or transportation of GCRTIS, check if there are people or blockages close to it.

ATTENTION



Avoid heating parts near the fluid lines.

Heating may generate fragility in the material,

rupture and exit of the pressurized fluid, causing burns and injuries.

ATTENTION



Maintain the articulation area free while GCRTIS is running. In closed curves, avoid the tractor wheels from touching the head.

ATTENTION



Never weld the wheel mounted with tire, the heat may cause air pressure increase and provoke the explosion of the tire.

When filling the tire, position yourself besides the tire, never in front of it. To fill the tire, always use containment device (filling cage).

ATTENTION



 Dispose residues inappropriately affects the environment and the ecology since you will be polluting rivers, canals or the soil.

Inform yourself about the proper way of recycling or disposing residues.

PROTECT THE ENVIRONMENT!



Safety rules

• EPI'S Equipment

DO NOT WORK WITH GCRTIS WITHOUT FIRST PUTTING PPES (SAFETY EQUIPMENT) ON. IGNORING THIS WARNING MAY CAUSE DAMAGES TO HEALTH, SEVERE ACCIDENTS OR DEATH.

When performing certain procedures with GCRTIS, put the following PPEs (Safety Equipment) on:





IMPORTANT

Safe practice should be performed in all work steps with GCRTIS, thus avoiding accidents such as objects impact, fall, noises, cuts and ergonomics, that is, the person responsible for operating GCRTIS is subject to internal and external damages to his/her body.

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















control with the tractor power switched off.



Warnings

accidents.

knowledge of correct and safe handling of both the tractor and GCRTIS. Always put the gear shift in neutral position, unplug the power take-off gear switch and place the hydraulic controls in neutral position. Do not start the motor in a closed environment or with no proper ventilation since the exhaust gases are harmful to health. !\ When maneuvering the tractor to couple the GCRTIS, make sure you have the necessary space and that there is no one very close, always maneuver at low gear and be prepared to brake in an emergency. !\ Do not perform adjustments when GCRTIS is in operation. (!) When working in sloped terrains, proceed with precautions, always trying to maintain the required stability. In case it starts to unbalance, reduce acceleration and turn the wheels of the tractor to the downward face of the terrain and never lift the GCRTIS. Always drive the tractor in speeds compatible to the safety, especially during works in bumpy lands or slopes, keep the tractor always engaged. When driving the tractor in highways, keep the break pedals interconnected. Do not work with the tractor with light rear. If the rear has a tendency to lift, add more weights on the rear wheels. (!) When leaving the tractor, put the gear lever in neutral position and apply the parking brake. Never leave GCRTIS coupled to the tractor in the raised position of the hydraulic system. All maintenance on the GCRTIS shall be carried out with the same stoppage and with the tractor switched off. 1 Do not travel on highways especially at night. Use warning signs throughout the route.

Mhen operating the GCRTIS, do not allow people to stay very close, inside it or on it.

/!\ Before connecting or disconnecting the hydraulic hoses, relief the system pressure by activating the

 $oxed{ ext{!}}$ When starting the tractor motor, be properly seated in the operator seat and aware of the complete

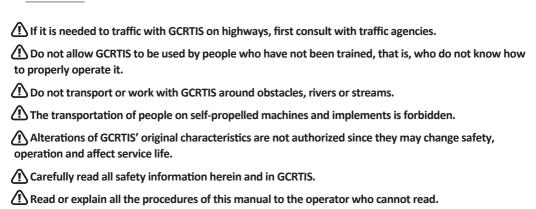
Periodically check the conservation status of the hydraulic hoses. If there are indications of oil leakage, replace the hose immediately, because the oil works under high pressure and may cause severe

!\ When performing any maintenance service, use PPEs equipment.

Do not wear very loose clothing as they may get caught in GCRTIS.



Warnings



Always check if GCRTIS is in perfect usage conditions. In case of any irregularity that may interfere in GCRTIS operation, arrange due maintenance before any work or transport.

Maintenance and especially inspection in GCRTIS risk zones should only be performed by trained and

(!) Maintenance and especially inspection in GCRTIS risk zones should only be performed by trained and qualified worker, respecting all safety guidance. Before beginning maintenance, disconnect all GCRTIS drive systems.

Periodically check all GCRTIS components before using it.

① Due to the equipment used and work conditions on field or in maintenance areas, precautions are required. Baldan does not have direct control over precautions, therefore, it is the owner's responsibility to put into practice the safety procedures while working with GCRTIS.

Check the minimum power of the tractor recommended for each model of GCRTIS. Only use tractor with power and ballast compatible with the load and topography of the terrain.

① During GCRTIS transportation, drive in speeds compatible to the terrain and never exceeding 16Km/h, since it reduces maintenance and, therefore, increases GCRTIS service life.

Alcoholic beverage or some medications may cause loss of reflexes and change the operator's physical conditions. For this reason, never operate this GCRTIS under any of these substances.

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

In case of doubts, refer to Post-Sales.
Telephone: 0800-152577/ E-mail: posvenda@baldan.com.br

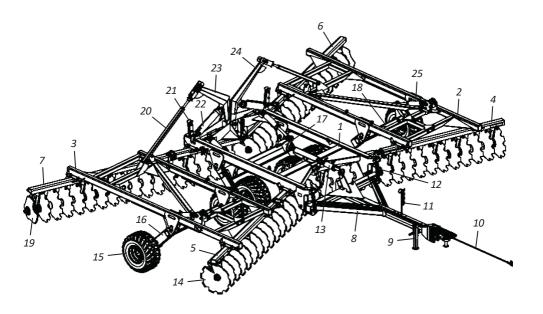


Components

• GCRTIS - Super Intermediate Tandem Remote Control Harrow

- Central strut
- 2. Left-side strut
- 3. Right-side strut
- 4. Left front frame
- 5. Right front frame
- 6. Left rear frame
- 7. Right rear frame
- 8. Coupling head
- 9. Mechanical jack
- 10. Hydraulic hose
- 11. Hose support
- 12. Stabilizer rod
- 13. Cylinder

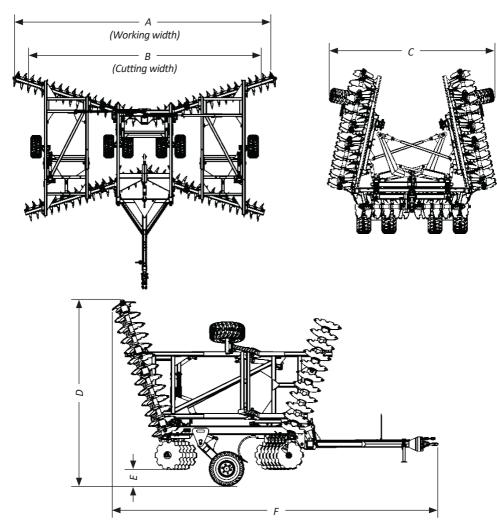
- 14. Disc
- **15.** Tire
- 16. Right-side support of wheel axle
- 17. Central support of wheel axle
- 18. Left-side support of wheel axle
- 19. Finishing disc
- 20. Join regulation bar
- 21. Fixing bar for transport
- 22. Articulation cylinder of the sides
- 23. Right articulation support
- 24. Left articulation support
- 25. Articulation cylinder of the wheels





Dimensions

• 62-/ 66-/ 70-Discs GCRTIS



Mode	N° of Discs	Measurement A (mm)	Measurement B (mm)	Measurement C (mm)	Measurement D (mm)	Measurement E (mm)	Measurement F (mm)
GCRTIS	62	8510	7700	4750	4040	410	7790
GCRTIS	66	9040	8250	4750	4310	410	7860
GCRTIS	70	9600	8770	4750	4615	410	7950



Specifications

• GCRTIS - Super Intermediate Tandem Remote Control Harrow

Mode	N° of Discs	Distance between Discs (mm)	Working Width (mm)	Diameter of the Discs (ø)	Diameter of the Axle (ø)
	62	270	8510	26" - 28"	1.5/8"
GCRTIS	66	270	9040	26" - 28"	1.5/8"
	70	270	9600	26" - 28"	1.5/8"

Model	N° of Discs	Weight Approximate (Kg)		Tractor Power (HP)	Tires	
		26"	28"	, ,	Quantity	Model
	62	8687	8908	280 à 320	06	400x60
GCRTIS	66	9010	9232	300 à 335	06	400x60
	70	9174	9423	315 à 340	06	400x60

Working dept	150 - 250 mm
Recommended working maximum speed	7km/h
Recommended transport maximum speed	25km/h

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. The technical specifications are approximate and informed in normal conditions of work.

GCRTIS INTENDED USE

- GCRTIS was developed to soil preparation works in large areas and in many types of terrains.
- **GCRTIS** should only be driven and started by a properly instructed operator.

USE NOT ALLOWED OF GCRTIS

- To avoid damages, severe accidents or death, do NOT transport people on other part of GCRTIS.
- It is NOT allowed to use **GCRTIS** to couple, tow or push other implements or accessories.
- **GCRTIS** should NOT be used by an experienced operator who does not knows all the driving, command and operation techniques.



Specifications

GCRTIS leaves the factory disassembled. To assembly it, follow the instructions below:

The assembly of GCRTIS shall be done by the dealer, by trained, skilled and qualified personnel for this work.

• Before beginning the assembly of GCRTIS, look for a good place that facilitates the identification of the parts and their assembly.

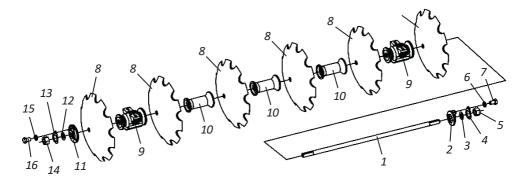
Do not use loose clothing because they may get trapped in the GCRTIS.

Assembly

Assembly of discs section

When starting the GCRTIS assembly, always start with the set of disks, for this, proceed as follows:

- 01 To the axle (1), attach the concave thrust washer (2), flat washer (3), lock (4), nut (5), attaching it with the pressure washer (6) and the screw (7).
- 02 Next, to the axle (1), attach the disc (8), bearing (9), another disc (8), separator reel (10) and so on.
- 03 When the set is complete with all discs, bearings, separator reels, attach the convex thrust washer (11), flat washer (12), lock (13), nut (14), tightening with the wrench until the whole set is secured.
- **04** After that, chock the set of discs and secure the nut (14) through impacts. When you are about to reach the maximum torque, adjust the lock (13) with the convex washer (11), always tightening the nut until coincide with the boring, attach it with the pressure washer (15) and the screw (16).





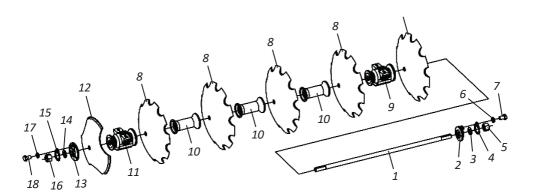
Check the right side of the separator reels and bearings, according to the discs concavity.



Assembly of finishing disc

To assemble the finishing disc, proceed as follows:

- **01** To the axle, attach the concave thrust washer (2), flat washer (3), lock (4), nut (5), attaching it with the pressure washer (6) and the screw (7).
- **02** Next, to the axle (1), attach the disc (8), bearing (9), another disc (8), separator reel (10) and so on until you attach the bearing (11) and the finishing disc (12).
- **03** When the set is complete with all discs, bearings, separator reels, attach the convex thrust washer (13), flat washer (14), lock (15), nut (16), tightening with the wrench until the whole set is secured.
- 04 After that, chock the set of discs and secure the nut (16) through impacts. When you are about to reach the maximum torque, adjust the lock (15) with the convex washer (13), always tightening the nut until coincide with the boring, attach it with the pressure washer (17) and the screw (18)



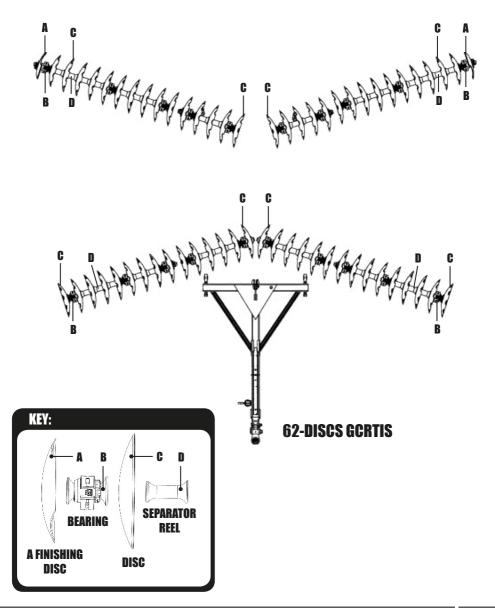


Check the right side of the separator reels and bearings, according to the discs concavity.



• Assembly of discs sections - 62-discs GCRTIS

Check below the assembly of the discs sections of the 62-discs **GCRTIS**.

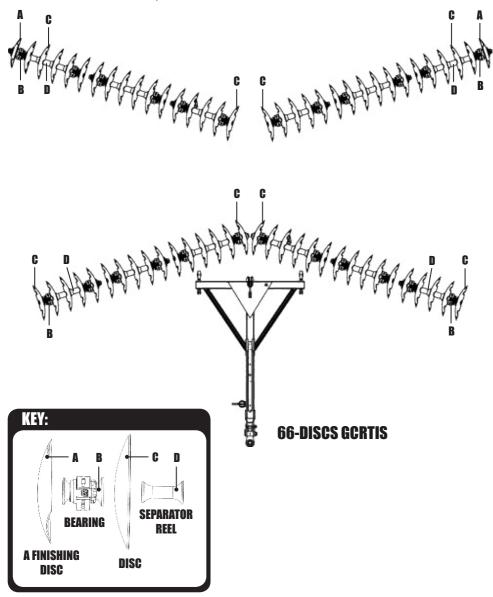




Assembly

Assembly of discs sections - 66-discs GCRTIS

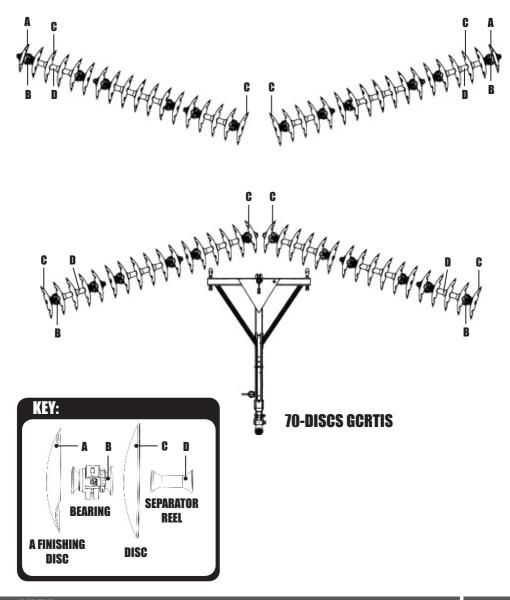
Check below the assembly of the discs sections of the 66-discs **GCRTIS**.





Assembly of discs sections - 70-discs GCRTIS

Check below the assembly of the discs sections of the 70-discs **GCRTIS**.



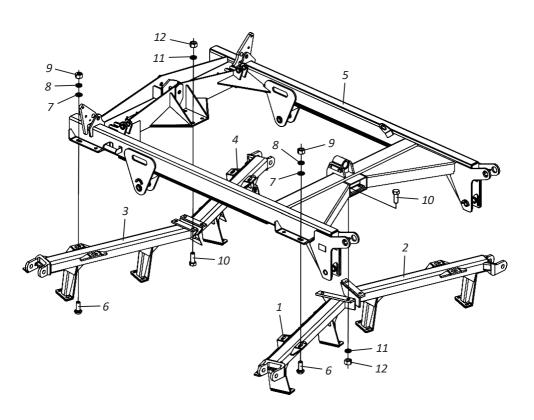


Assembly

Assembly of central frames in the central strut

Start the **GCRTIS** assembly by the central strut, for this purpose, proceed as follows:

- **01** Attach the right (1) and left front frames (2) and the right (3) and left (4) rear frames in a flat and clean place.
- **02** Next, attach the central strut (5) over the front and rear frames, attaching the sides of the frames with pins (6), flat washers (7), pressure washers (8) and nuts (9).
- **03** After, attach the centers of the front and rear frames to the central strut (5) with screws, pressure washers (11) and nuts (12).

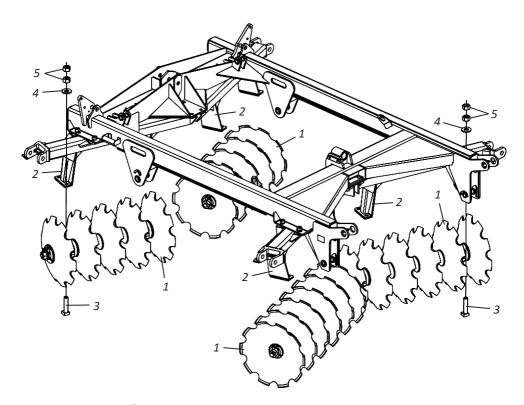




· Assembly of discs sections in the frames of the central strut

After attaching to the frames of the central strut, attach the disc sections (1), for this purpose, proceed as follows:

- **01** Raise the front or rear part of the frame and attach the disc sections (1) in line and match the footings boring (2) with the borings and attach with screws, flat washers (4) and nuts (5).
- **02** After that, raise the other part of the frame and repeat the operation, checking the discs concavity from one section to the other that should be in the opposite side.
- 03 When finishing the assembly, check if the footings (2) are turned to the discs concavity.





When assembling the discs sections in the frames, note that the frames footings should be turned to the concavity of the discs.

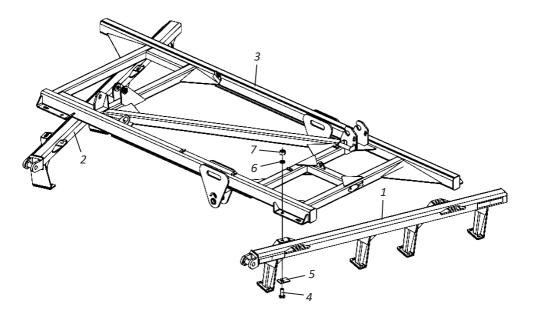


Assembly

· Assembly of side frames in the side strut

Following, assemble the left side strut, for this purpose, proceed as follows:

- 01 Attach the front side (1) and rear side (2) frames in a flat and clean place.
- 02 Next, attach the left side strut (3) over the front and rear side frames, attaching them with pins (4), locks (5), pressure washers (6) and nuts (7).





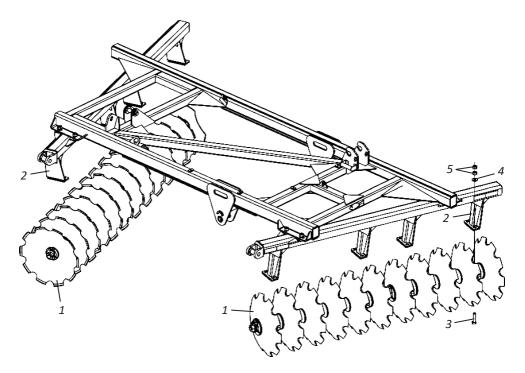
NOTE Repeat the procedure above to assemble the right side strut in the side frames.



· Assembly of discs sections in the side frames of left side strut

After attaching the side frames to the side strut, attach the disc sections (1), for this purpose, proceed as follows:

- 01 Raise the front or rear part of the frame and attach the disc sections (1) in line and match the footings boring (2) with the borings and attach with screws, flat washers (4) and nuts (5).
- 02 After that, raise the other part of the frame and repeat the operation, checking the discs concavity from one section to the other that should be in the opposite side.
- 03 When finishing the assembly, check if the footings (2) are turned to the discs concavity.



When assembling the discs sections in the frames, note that the frames footings should be turned to the concavity of the discs.

NOTE Repeat the procedure above to assemble the discs sections in the side frames of right side strut.

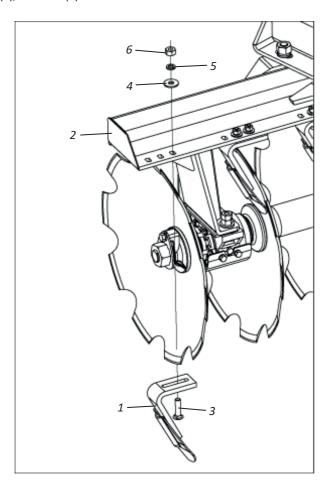


Assembly

Assembly of scrapers

After attaching the frames of the discs sections, attach the scrapers (1), for this purpose, proceed as follows:

01 - Attach the scrapers (1) to the frames, securing them with screws (3), plain washers (7), pressure washers (5), and nuts (6).





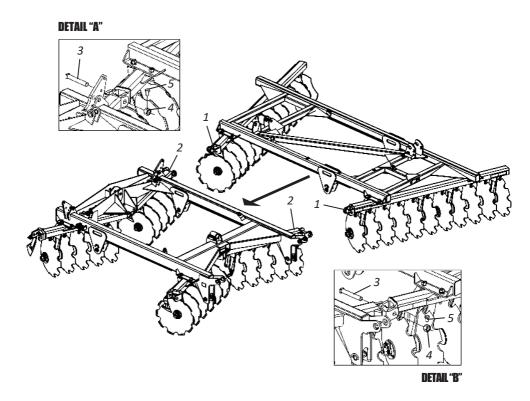
When assembling the scrapers, they shall be 0.5 to 1.0 cm away from the discs.



• Assembly of left side frames in the central frames

To attach the left side frames (1) to the central frames (2), proceed as follows:

01 - Attach the left side frames to the central frames (2), attaching them with pins (3) and nuts (4), locking with screws (5) as shown in details "A" and "B".





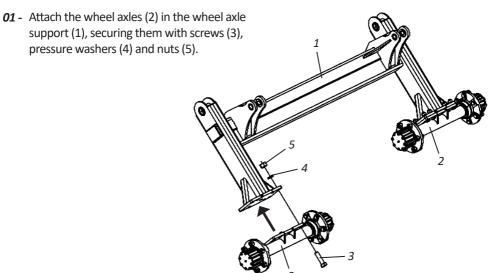
Repeat the above procedure for mounting the right side frames on the center frames.



Assembly

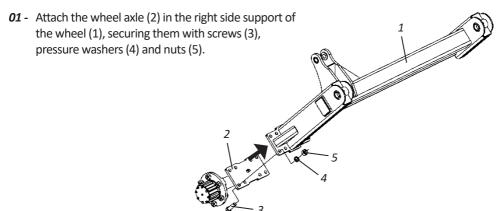
· Assembly of central support of the wheel axle

In order to assemble the central support of the wheel axle (1), proceed as follows:



• Assembly of the right side support of the wheel axle

In order to assemble the right side support of the wheel axle (1), proceed as follows:





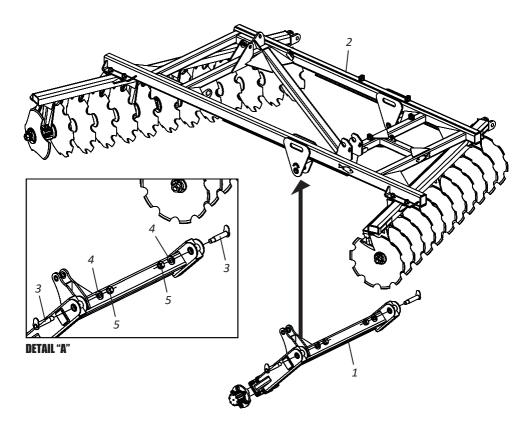
Repeat the above procedure for mounting the left side bracket on the wheel axle



· Assembly of the right side support of the wheel axle in the right side strut

After assembling the central and side supports, attach the right side support of the wheel axle (1) in the right side strut, for this purpose, proceed as follow:

01 - Attach the right support of the wheel axle (1) in the strut (2), securing them with pins, flat washers (4) and nuts (5), as shown in detail "A".





Repeat the procedure above to assemble the left side support of the wheel axle.

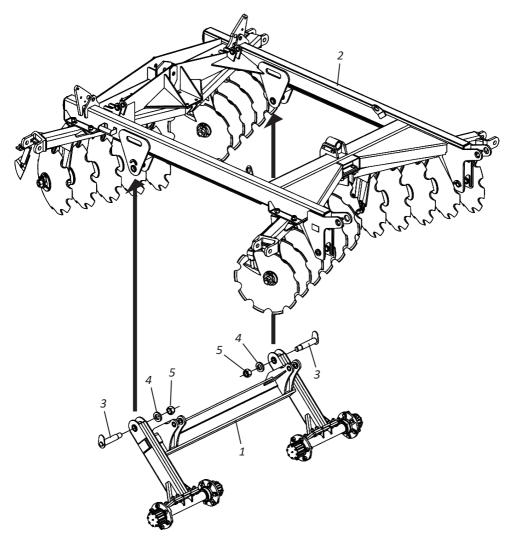


Assembly

• Assembly of the central support of the wheel axle in the central strut

In order to assemble the central support of the wheel axle (1) in the central strut (2), proceed as follows:

01 - Attach the central support of the wheel axle (1) in the central strut (2), securing them with pins (3), flat washers (4) and nuts (5).

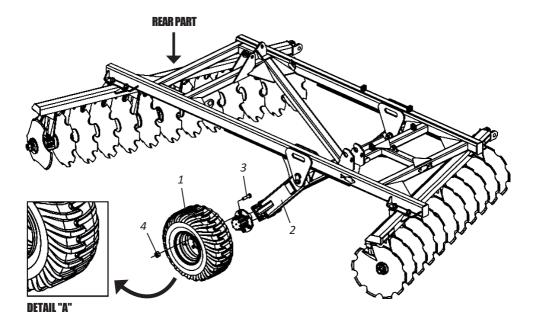




Assembly of tires

After assembling the supports of the wheel axle, attach the tires (1), for this purpose, proceed as follow:

01 - Attach the tires (1) in the wheel axle support (2) with screws (3) and nuts (4).



All tires shall be assembled anti-tractioned, that is, with the claws facing forward of the GCRTIS, as shown in detail "A".

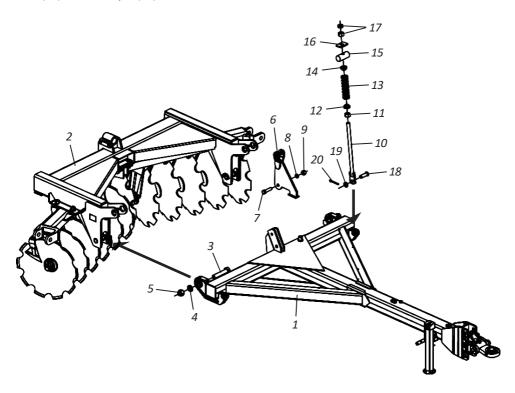


Assembly

Assembly of the coupling head

To assemble the coupling head, proceed as follows:

- 01 Attach the coupling head (1) in the strut (2) with pins (3), flat washers (4) and nuts (5).
- **02** Next, release the central support (6) in the coupling head (1) with screw (7), pressure washer (8) and nut (9).
- **03** Following, assemble the rod (10) attaching the nut (11), spring washer (12), spring (13), spring washer (14), guide (15), rod lock (16) and nuts (17).
- **04** End attaching the rod (10) assembled in the coupling head (1) with pin (18), flat washer (19) and cotter pin (20).

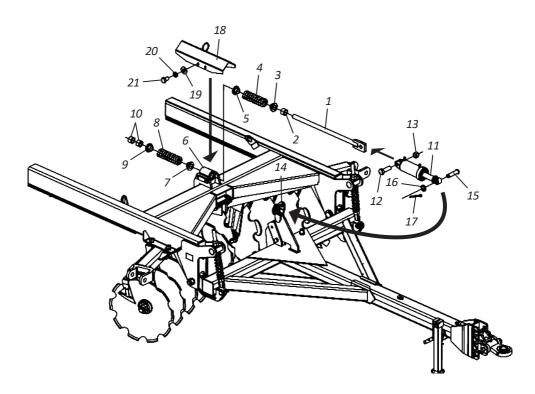




• Assembly of the hydraulic cylinder in the coupling head

To assemble the hydraulic cylinder in the coupling head, proceed as follows:

- 01 Put the rod (1), nut (2), spring washer (3), spring (4), spring washer (5), pass the rod (1) inside the bushing (6) and, in the rod (1), continue to put the spring washer (7), spring (8), spring washer (9) and nuts (10).
- 02 Next, attach the hydraulic cylinder base (11) to the rod (1) with screw (12) and nut (13).
- **03** Following, attach the hydraulic cylinder shaft (11) to the central support (14) with pin (15), flat washer (16) and cotter pin (17).
- **04** End attaching the spring protection (18) with flat washer (19), pressure washers (20) and screws (21).



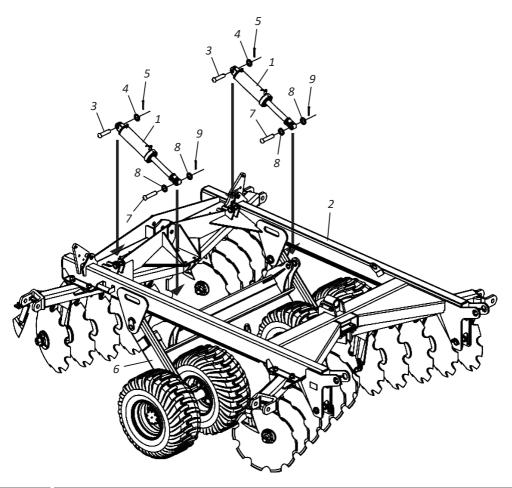


Assembly

• Assembly of the hydraulic cylinders in the central support of the wheel axle

In order to assemble the hydraulic cylinders in the central support of the wheel axle, proceed as follows:

- O1 Attach the hydraulic cylinders base (1) to the strut (2), securing them with pin (3), flat washer (4) and cotter pin (5).
- **02** Following, attach the hydraulic cylinders shaft (1) to central support of the wheel axle (6), securing them with pin (7), flat washers (8) and cotter pin (9).



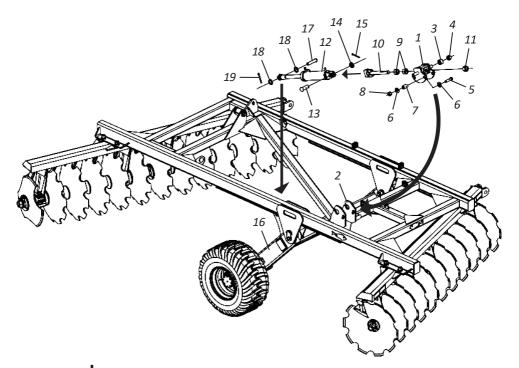


Assembly

· Assembly of the hydraulic cylinder in the right side support of the wheel axle

In order to assemble the hydraulic cylinder in the right side support of the wheel axle, proceed as follows:

- 01 Attach the cylinder articulation support (1) to the strut (2), securing them with bushings and nuts (4). Then, lock the cylinder articulation support (1) with screws (5), plain washers (6), bushings (7) and nuts (8).
- **02** Next, attach the nuts (9) to the rod (10) and put it in the cylinder articulation support (1), securing it with nut (11).
- **03** Following, attach the hydraulic cylinder base (12) to the rod (10) with pin (13), flat washer (14) and cotter pin (15).
- **04** End attaching the hydraulic cylinder shaft (12) to the right side support of the wheel axle (16) with pin (17), flat washer (18) and cotter pin (19).



O NOTE

Repeat the procedure above to assemble the hydraulic cylinder in the left side support of the wheel axle.

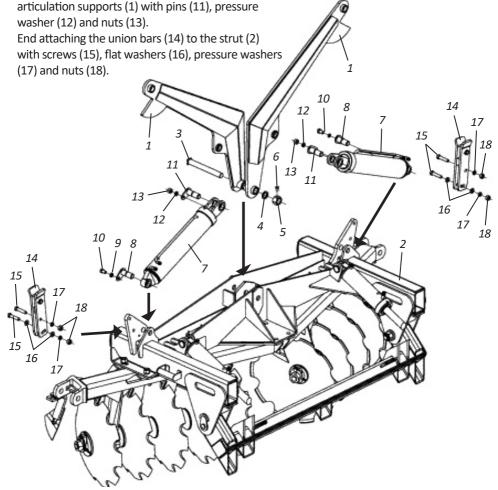


Assembly

Assembly of the frames articulation supports

In order to assemble the frames articulation supports (1), proceed as follows:

- 01 In order to assemble the frames articulation supports (1), proceed as follows:
- **02** Attach the frames articulation supports (1) to the strut (2) with screw (3), pressure washer (4) and nut (5), locking it with the screw (6).
- **03** Following, attach the hydraulic cylinders bases (7) to the strut (2) with pins (8), pressure washers (9) and screws (10) and attach the hydraulic cylinders shafts (7) to the frames



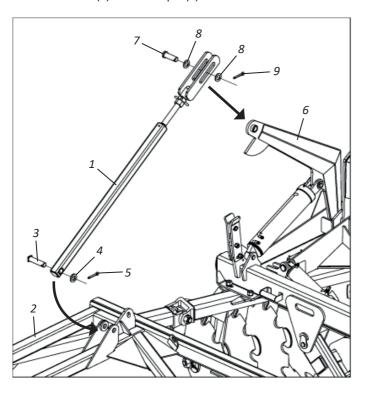


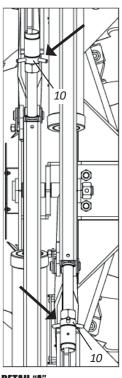
Assembly

· Assembly of the frames adjusters

In order to assemble the frames adjusters (1), proceed as follows:

- 01 Attach the frame adjuster base (1) to the side strut (2) with pin (3), flat washer (4) and cotter pin (5).
- **02** Following, attach the frame adjuster shaft (1) to frame articulation support (6) with pin (7), flat washers (8) and cotter pin (9).





DETAIL "A"

ATTENTION

When assembling the frames adjusters (1), put the bushings pins (10) one in opposition the other (as shown in detail "A") so they do not touch each other when articulating the GCRTIS.

O NOTE

Repeat the procedure above to assemble the frame adjuster in the left side strut.

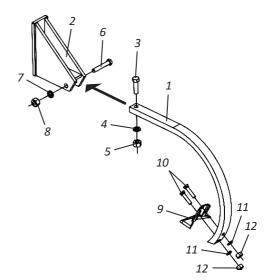


Assembly

Assembly of the central shaft

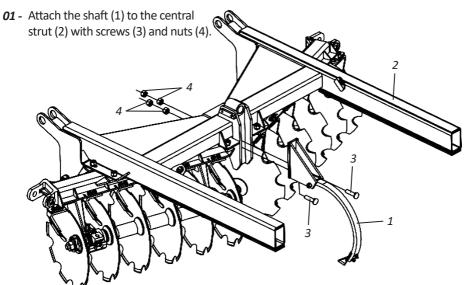
In order to assemble the central shaft (1), proceed as follows:

- 01 In order to assemble the central shaft (1), proceed as follows:
 Attach the shaft (1) to the support (2) with screw (3), pressure washer (4) and nut (5). Following, attach the screw (6), pressure washer (7), and nut (8).
- 02 Next, attach the nozzle (9) to the shaft(1) with screws (10), pressure washers(11) and nuts (12).



· Assembly of central shaft in the central strut

In order to assemble the central shaft (1), proceed as follows:



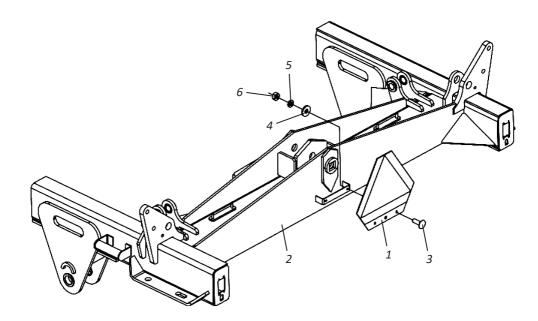


Assembly

• Assembly of the signaling plate

In order to assemble the signaling plate (1) in the central strut, proceed as follows:

01 - Attach the signaling plate (1) to the central strut (2), with screws (3), plain washers, pressure washers (5), and nuts (6).



DO NOT work or transport GCRTIS, especially on roads, without the signaling plate.

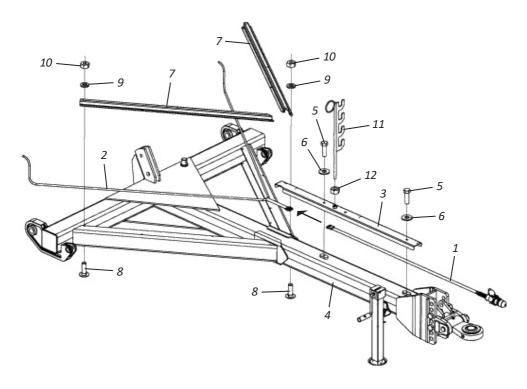


Assembly

Assembly of electrical system

In order to assemble the signaling plate (1) in the central strut, proceed as follows:

- **01** Attach the cable (1) in the cable (2). Then put the central protection (3) over the cables (1 and 2), attaching it on the head (4) with screws (5) and plain washer (6).
- **02** Then put the protections (7) over the cables (2), attaching them on the head (4) with screws (8), pressure washer (9) and nuts (10).
- 03 Following, attach the hose support (11) and nut (12) on the central protection (3).





Before assembling the electrical system, make sure that the tractor motor is off and that the ignition key has been taken out.

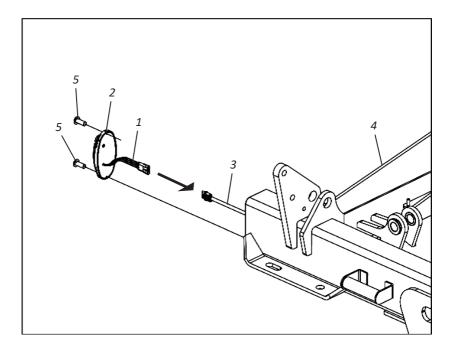


■ Assembly

Assembly of lights

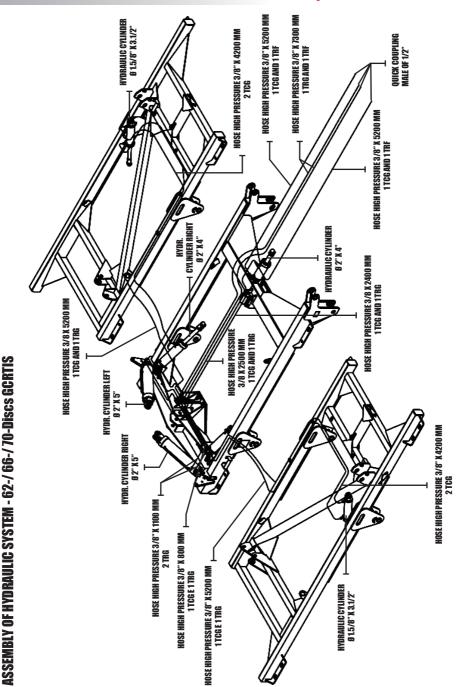
When finishing the assemble the electrical system, assemble the lights, proceeding as follows:

- 01 Attach the cable (1) of the light (2) in the cable (3).
- 02 Then fix the light (2) on the strut (4) with screws (5).



DO NOT work or transport GCRTIS, especially on roads, without the assembling the electrical system (cables and lights).

■ Assembly



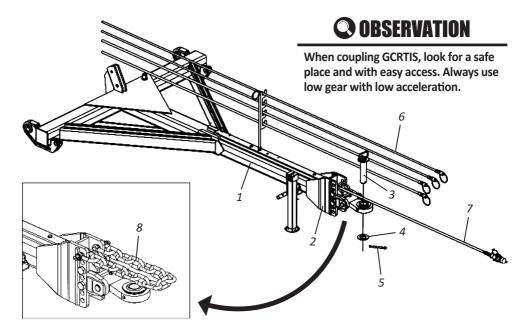


■ Coupling

HARROW COUPLING IN THE TRACTION BAR OF THE TRACTOR

To couple **GCRTIS**, proceed as follows:

- 01 Level the coupling head (1) of GCRTIS with the tractor's coupling through regulations (2) of the coupling shackle. Next, slowly approach the tractor to the harrow in reverse, being aware when to use the brakes.
- 02 Couple GCRTIS to the tractor by attaching it with coupling pin (3), plain washer and lock (5).
- 03 After, couple the hydraulic hoses (6) and the electrical cable (7) in the tractor.
- **04** End the coupling by attaching the safety chain (8) between the harrow and tractor.





The safety chain (8) provides greater safety during work and transportation preventing the GCRTIS from decoupling from the tractor in case of breakage of the coupling pin (3). We recommend to NOT work or transport GCRTIS without attaching the safety chain (8).



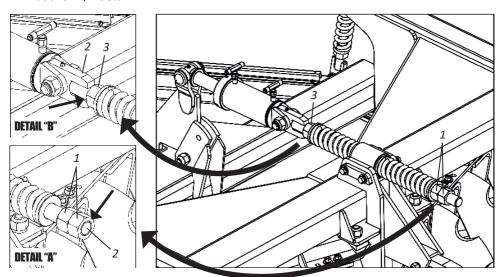
Before connecting or disconnecting the hydraulic hoses, relief the system pressure by activating the control with the tractor power switched off.



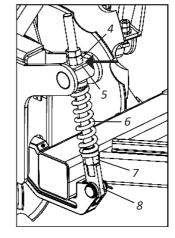
LEVELLING OF THE HARROW - PART I

To level the **GCRTIS**, proceed as follows:

- 01 Place the tractor and GCRTIS in a plain location.
- **02** Then, before lifting the **GCRTIS**, loose the nut and lock nut (1) until they face the point of the central rod (2), **as shown in detail "A".**
- 03 Then, loose the nut and lock nut (3) until they touch the base of the central rod (2), as shown in detail "B".



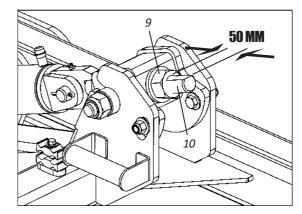
O4 - Following, make sure that the nut (4) is touching the sheet's face (5) in a way that the spring (6) remains loose. Make sure that the nut (7) is also facing the base of the rod (8) of the head.





LEVELLING OF THE HARROW - PART II

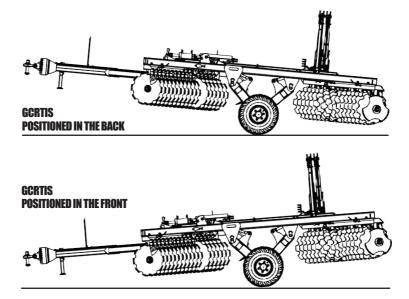
05 - Then, as an initial parameter, adjust the nut (9) so that it is 50mm away from the face of the rod (10).



ATENTTION

This adjustment shall be done on both side frames (left and right) of GCRTIS.

06 - Then, activate to lift the harrow and observe if GCRTIS is positioned on the front or rear.



07 - According to the position of GCRTIS, perform the regulation of the following pages to level the harrow.

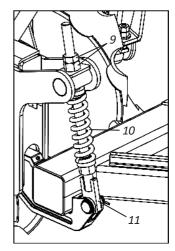


LEVELLING OF THE HARROW - PART III

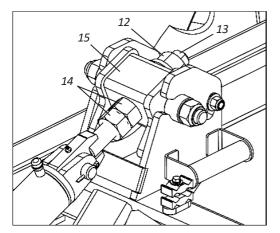
08 - REAR POSITION:

If **GCRTIS** is on the rear position, proceed as follows:

- 01 Abaixe a
- 02 Following, tighten the nuts and lock nuts every 10 mm, compressing the springs of the head's rod. Then, activate the hydraulic system to lift the GCRTIS and check its position. If it is still necessary to adjust it, lower it again pressing the nuts and lock nuts (9) + 10 mm and lift and check it again.
- 03 Following, check if the side struts are levelled with the central strum, if you need regulation, proceed as follows:

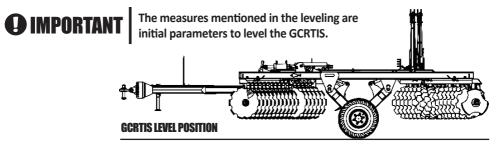


04 - Loose the nut (12) of the side rod (13) and, consequently, tighten the nuts and lock nuts (14) to touch the square tube (15).



ATENTTION

This adjustment shall be done on both side frames (left and right) of GCRTIS.



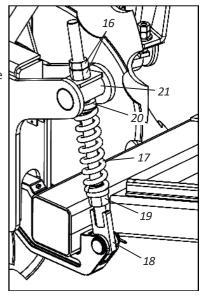


LEVELLING OF THE HARROW - PART IV

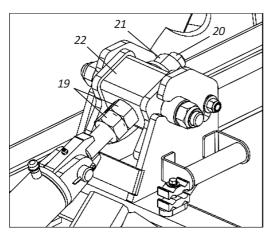
09 - FRONT POSITION:

If **GCRTIS** is on the front position, proceed as follows:

- 01 Low the GCRTIS relieving the hydraulic system.
- 02 Following, loose the nuts and lock nuts (16) every 20 mm, decompressing the springs (17) of the head's rod (18). Then, tighten the nut (19) so that the bushing (20) touch the guide (21). Then, activate the hydraulic system to lift the GCRTIS and check its position. If it is still necessary to adjust it, lower it again loosing the nuts and lock nuts (16) + 20 mm and lift and check it again.



03 - Following, check if the side struts are levelled with the central strum, if you need regulation, proceed as follows:



04 - Loose the nuts and lock nuts (19) slowly of the side rod (20) and, consequently, tighten the nuts and lock nuts (21) to touch the square tube (22).



This adjustment shall be done on both side frames (left and right) of GCRTIS.

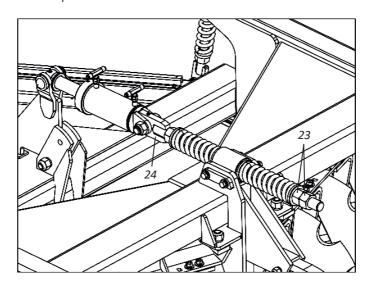
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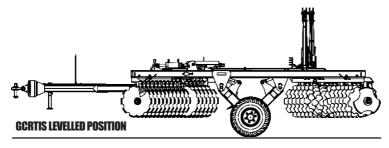


■ Levelling

LEVELLING OF THE HARROW - PART V

05 - If you still need to adjust, tighten the nut and lock nut (23) of the central rod (24) every 20 mm. Repeat the whole process until **GCRTIS** is leveled.







The measures mentioned in the leveling are initial parameters to level the GCRTIS.



■ Adjustments

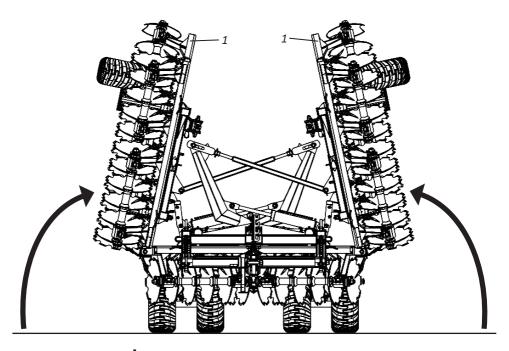
Adjustment for transport - Part I

Before any operation with **GCRTIS**, read the following information:

- When starting the hydraulic process for the first time, there is a higher need for hydraulic flow of the tractor. On the 1st operation, observe the tractor's hydraulic oil level.
- ⚠ Before starting the articulation of **GCRTIS**, check the adjustment of oil flow so that the articulation is not abrupt, causing damages to the harrow.
- Mhen articulating **GCRTIS**, where necessary, fill the tractor's hydraulic oil level. Check the manufacturer's technical manual of the tractor.
- Let the oil flow be slower.

Before transporting GCRTIS, proceed as follows:

01 - Articulate the side frames (1).





When finishing the articulation, DO NOT allow that people stay under the side (1) or in the area of action of them;

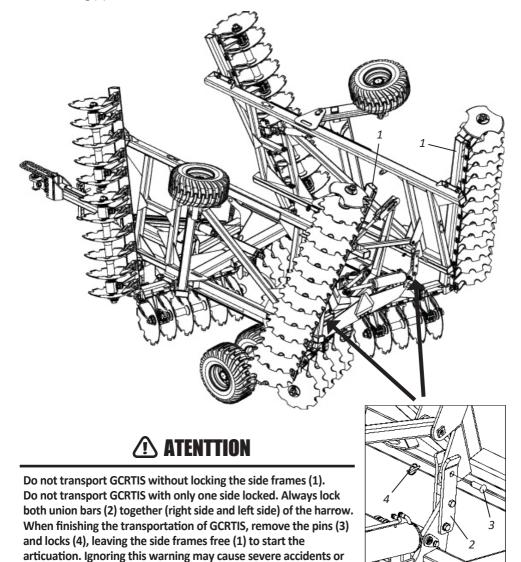
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■ Adjustments

damage to the GCRTIS.

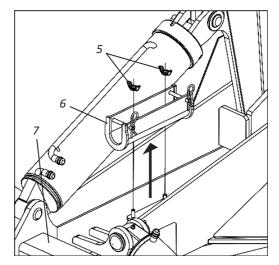
- Adjustment for transport Part II
- **02** Following, lock the side frames (1) with union bars (2), fixing them with pins (3) and locks with ring (4).



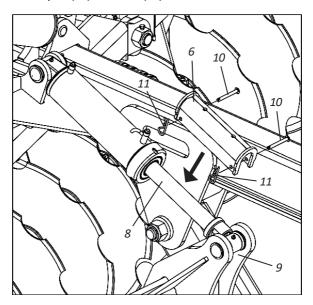


■ Adjustments

- Adjustment for transport Part III
- 03 Loose the wing nut (5) and remove the locks (6) of the strut (7).



04 - Following, activate the course of hydraulic cylinders (8) of the wheelset (9), put the locks (6) and attach them with pins (10) and locks (11).

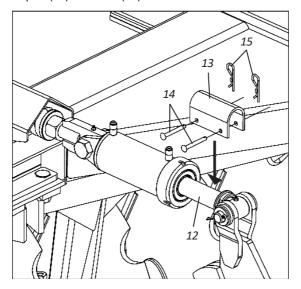


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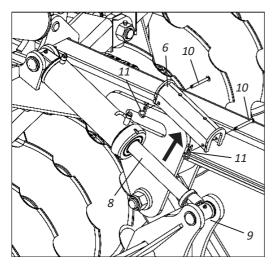


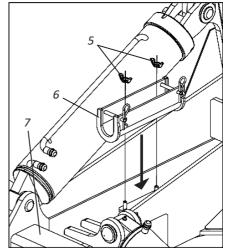
■ Adjustments

- Adjustment for transport Part IV
- **05** Following, totally activate the course of hydraulic cylinders (12) of the head, put the lock (13) and attach it with pins (14) and locks (15).



06 - When finishing the transport, remove the locks (6) of the hydraulic cylinders (8) and wheelset (9) and attach them again in the strut (7) with wing nuts (5).

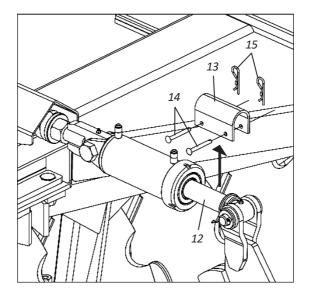






■ Adjustments

- · Adjustment of working depth Part V
- **07** Following, also remove the lock (13) of the hydraulic cylinder (12) of the head, loosing pins (14) and locks (15).





Do not transport GCRTIS without putting the locks in the hydraulic cylinders (8) of the wheelset (9) and in the hydraulic cylinder (12) of the head. Ignoring this warning may cause damages to health, severe accidents or death.

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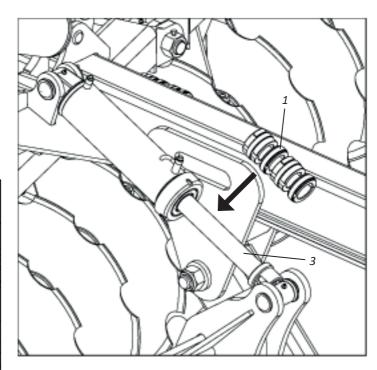


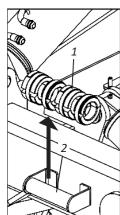
■ Adjustments

· Adjustment of working depth - Part I

In order to adjust the working depth through tires, limiting rings (1) are placed on the shafts of the hydraulic cylinders (2), providing many adjustments of working depth. In order to adjust the working depth, proceed as follows:

- 01 Remove the limiting rings (1) from the strut (2).
- 02 Then, activate the shafts of the hydraulic cylinders (3) of the wheelset until the measure needed.
- **03** Following, put the limiting rings (1) in the hydraulic cylinders shafts (3) until filling the whole space between the shaft coupling and the hydraulic cylinder plunger (3).





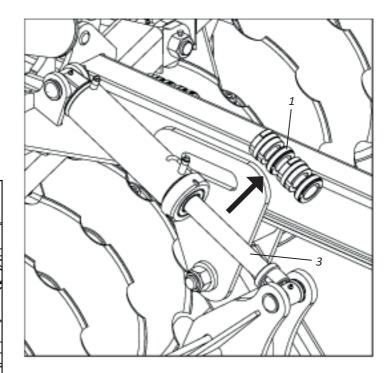


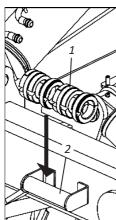
Always put the same number of limiting rings (1) on the hydraulic cylinders (3) of the wheelset.



■ Adjustments

- · Adjustment of working depth Part II
- **04** After finishing the works with **GCRTIS**, remove the limiting rings (1) from the hydraulic cylinders (3) of the wheelset and put them on the strut (2).





IMPORTANT

After the adjustment, GCRTIS will always operate in the same depth, both in hard and soft ground, this is because the limiting rings (1) are limiting the hydraulic cylinder course (3) of the wheelset, that is, preventing the oscillation of the wheels.



The limiting wheels (1) that come with GCRTIS have different sizes that combined provide various depth adjustments.

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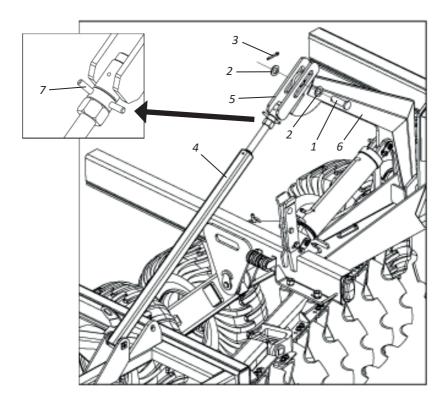


Adjustments

Adjustment of frames adjusters

In order for the side frames to have flexibility when operating on uneven ground or with irregularities, adjust the frame adjusters for this, proceed as follows:

- 01 Level the harrow and then loose the pin (1), plain washers (2) and cotter pin (3).
- **02** Next, lift the adjuster of the left frame (4), turn the adjuster (5) until the hole in the left articulation support (6) is centralized with the slot in the adjuster (5).
- **03** Then reinsert the pin (1), plain washers (2) and cotter pin (3) and lock it with the bushing with pins (7).





Repeat the procedure above to assemble the frame regulator in the right side strut. The adjusters of right and left struts shall have the same adjustment.



Operations

Recommendations for operation - Part I

The preparation of **GCRTIS** and tractor will allow that you save time and have a better result in works on the field. The following suggestions may be useful for you.

HARROW STRUCTURE

After the first day of work with **GCRTIS**, tighten again all screws, nuts and check the conditions of pins and locks of the harrow structure. Then perform a general retightening on all screws and nuts in the harrow structure every 24 hours of work.

DISCS SECTIONS

Pay special attention to the discs sections of **GCRTIS**. Retighten all screws and nuts of the discs sections daily during the first week of use. Then retighten all screws and nuts of the discs sections periodically.

GENERAL RECOMMENDATION

- 01 Adjust the tractor according to the content of the instruction manual, always using front and rear weights to stabilize the equipment.
- 02 Always couple to the tractor in low gear and very carefully.
- 03 When using GCRTIS, it is important to check the cross leveling and coupling system to be sure that the discs will have the same depth of penetration into the ground.
- 04 After coupling and leveling, the next adjustments will be done directly in the field of work, analyzing the terrain in texture, humidity and the types of operations to be done with GCRTIS.
- **05** In the tractor, choose a gear that allows you to maintain some reserve of power, guaranteeing against unforeseen efforts.
- 06 Observe the working and transport speeds specified on page 11. We do not recommend you to exceed the speeds to maintain service efficiency and avoid possible damage to GCRTIS.
- **07** When executing maneuvers in heads, first activate the hydraulic cylinders gradually, lifting the disc sections.
- 08 During harrowing (with the discs on the ground), do not maneuver to the right or left, as the angles formed by the disc sections begin to transmit great effort to the equipment, especially the traction components.

Instruction Manual



Operations

- Recommendations for operation Part II
- **09** Do not decouple any hose without first relieving the circuit pressure by turning the control levers a couple of times with the engine off.
- 10 Remove pieces of wood or any other object that may be attached to the discs.
- 11 In compacted ground where the penetration of the discs is difficult, the depth can be minimal, making the work unsatisfactory. In these cases, the application of other more suitable products is recommended.
- 12 During work or transport, the tractor's drawbar must remain fixed.
- **13** When performing any maintenance on **GCRTIS**, you should lower it to the ground and turn off the engine.
- **14 GCRTIS** has several adjustments, but only local conditions can determine the best adjustment.

In case of doubts, never operate or handle GCRTIS, refer to Post-Sales. Telephone: 0800-152577/ E-mail: posvenda@baldan.com.br



■ Calculation

Approximate hourly output

To calculate the approximate hourly output of **GCRTIS**, use the following formula:

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

FORMULA DATA:

A = Area to be worked

L = Working width of the harrow (in meters)

V = Average tractor speed (in meters/hour)

F = Output factor: 0.90

X = Value of the hectare: 10,000 m² (the value varies according to the region)

 $A = 8.51 \times 7,000 \times 0.90 = 5.36 \text{ Ha/h}$

10.000

Example: How much Ha will a **62-discs GCRTIS** produce in an hour of work at an average speed of 7 km/h?

$$A = ?$$

L = 8.51 m

V = 7,000 m/h

F = 0.90

 $X = 10,000 \text{ m}^2$ (Calculated in hectare)

Model	N° of Discs	Working Width (mm)	Speed Average (m/h)	Output Factor	Approximate Output in Hectare Hour
GCRTIS	62	8510	7,000	0.90	5.36
	66	9040	7,000	0.90	5.69
	70	9600	7,000	0.90	6.04

The formula for calculating approximate output refers to the calculation of areas to be worked or worked by **GCRTIS**. If you want to know the time that will be spent to work in an area of known value, just divide the value of this area by the hourly output of **GCRTIS**.

Example: What will be the "X" time spent for a **GCRTIS 62-disc** harrow to produce 35 hectares, at an average speed of 7km/h?

$$X = \frac{35 \text{ Ha}}{5.36 \text{ Ha/h}} = 6.52 \text{ horas approximately to work 35 hectare.}$$



The hourly output of GCRTIS can vary by factors that change the work rhythm as (soil humidity and hardness, terrain slope, inadequate adjustments and speed of work).

Instruction Manual



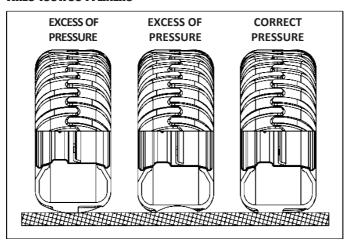
■ Maintenance

GCRTIS has been developed to provide you with the maximum yield on land conditions. Experience has shown that periodic maintenance of certain parts of **GCRTIS** is the best way to help you avoid problems, so we suggest verification.

Tires pressure

The tires should always be properly calibrated avoiding early wear due to excess or lack of pressure.

TIRES 400 X 60 14 LINERS



USAR: 52 LBS/POL²

ATTENTION

Never weld the wheel mounted with tire, the heat may cause air pressure increase and provoke the explosion of the tire.

When filling the tire, position yourself besides the tire, never in front of it.

To fill the tire, always use containment device (filling cage).

Assemble the tires with proper equipment. The service should only be performed by people qualified to do the work.





When calibrating tires, do not exceed the recommended calibration.

The pressure of the tractor tires should be performed according to the manufacturer's recommendation.



■ Maintenance

GCRTIS has been developed to provide you with the maximum yield on land conditions. Experience has shown that periodic maintenance of certain parts of **GCRTIS** is the best way to help you avoid problems, so we suggest verification.

Lubrication

Lubrication is indispensable for a good performance and greater durability of **GCRTIS** moving parts, contributing to the maintenance cost savings.

Before starting the operation, carefully lubricate all grease cups, always observing the lubrication intervals in the following pages. Make sure of the lubricant quality regarding its efficiency and purity, avoiding products contaminated by water, dust and other agents.

• Table of greases and equivalents

Manufacturer	Types of grease recommended		
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		

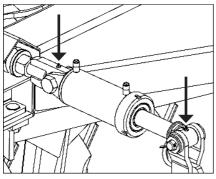


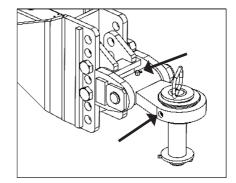
If there are equivalent manufacturers and/or brands that are not listed in the table, consult the manufacturer's technical manual.

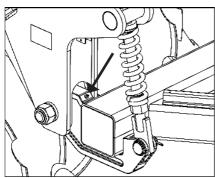


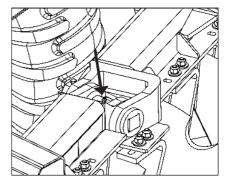
Assembly

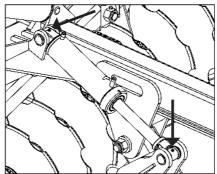
• Lubrication every 24 hours of work - Part I











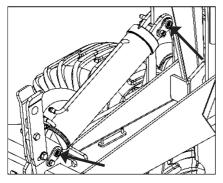
ATTENTION

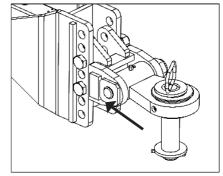
When lubricating GCRTIS, do not exceed the amount of new grease. Put an enough amount.

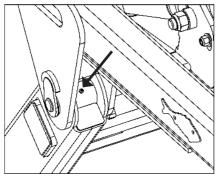


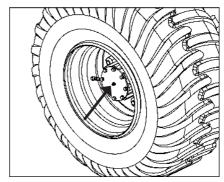
Assembly

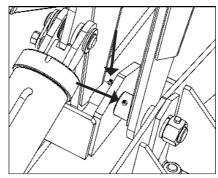
• Lubrication every 24 hours of work - Part II











ATTENTION

When lubricating GCRTIS, do not exceed the amount of new grease. Put an enough amount.

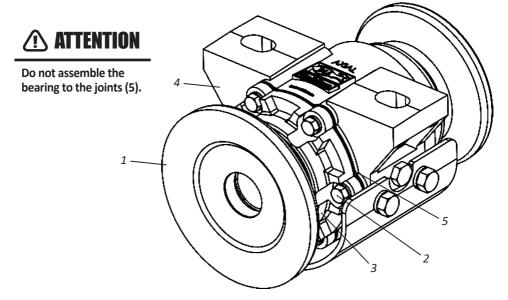


Assembly

• Adjustments of the bearings of discs sections

To attach the left side frames (1) to the central frames (2), proceed as follows:

- 01 Remove the washer (1).
- 02 Next, loosen the screws (2) and remover the bearing (4) cover (3).
- **03** Then, turn one or two joints (5) of the bearing (4) cover (3) Replace the cover (3) and retighten it.
- 04 If the gap remains, the cover (3) can be squared to increase the adjustment, then assemble it on the bearing with as many joints as necessary.
- 05 The bearing should turn freely, with no gaps.



• Bearings oil

In the first days of working with **GCRTIS**, check the oil level of the bearings daily, then check - every 120 hours of work.

Oil change should be done every 1200 hours of work. Use transmission oil 90 API GL4, MIL-L-2105; SAEJ306, may/81: SAE 80W, 90 and 140.



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



Maintenance

• Operational maintenance

PROBLEMS	PROBABLE CAUSES	SOLUTIONS	
The tires are damaged.	Work area with rocks, stubs or remaining of culture with stems that spike the tire.	Eliminate the elements causing damages to the tires before GCRTIS usage period.	
damagea.	Tires are not with proper pressure, generating deformations.	Maintain proper tires pressure.	
Weird noise on	Loosen wheels or play in wheel hub.	Retighten the wheel nuts and adjust wheel hub bearings.	
the wheels.	Breaking of bearings.	Identify the occurrence and replace damaged parts.	
Quick coupling does not fit.	Couplings of different types.	Change them for males and females of the same type.	
Leakage in	Lack of sealing material on the thread.	Use sealing tape and retighten carefully.	
hydraulic hose	Insufficient tightening.	Retighten carefully.	
	Damaged repairs.	Replace hubs.	
Leakage in quick	Insufficient tightening.	Retighten carefully without excess.	
couplings.	Damaged repairs.	Replace hubs.	
	Couplings of different brands.	Use quick coupling of the same brand.	
Quick coupling does not couple.	Mixing of needle-type coupling with sphere-type coupling.	Always use quick coupling of the same type.	
	Pressure on the system.	Relief the pressure to couple.	



Maintenance

- Precautions
- 01 Before each work, check the condition of all hoses, pins, screws, bearings, discs and sections. Where necessary, retighten them.
- 02 The displacement speed should be carefully controlled according to the land conditions.
- **03 GCRTIS** is used in several applications, requiring knowledge and attention during its handling.
- 04 Only local conditions can determine the best method of operation of GCRTIS.
- **05** When assembling or disassembling any part of **GCRTIS**, employ proper methods and tools.
- Observe the lubrication intervals carefully in the various lubrication points of GCRTIS.
 Respect the lubrication intervals.
- **07** Always check if the parts have wears. If there is a need for replacement, always demand Baldan original parts.
- 08 Keep the GCRTIS tires always calibrated.
- 09 Keep the GCRTIS discs always sharp.



The proper and periodical maintenance are necessary to guarantee the long life of GCRTIS.

Maintenance

- General Cleaning Parte I
- 01 When storing GCRTIS, perform a general cleaning and thoroughly wash only with water.
 Make sure the paint has not worn out, if this has happened, give a general coat, apply the protective oil and fully lubricate the GCRTIS. Do not use burned oil or other abrasive.
- 02 Completely lubricate GCRTIS. Check all moving parts of GCRTIS, if they present wears or gaps, make the required adjustment or replace the parts, leaving the machine ready for the next work.
- 03 After all maintenance precautions, store the harrow in a covered and dried location, properly supported.



Maintenance

• General Cleaning - Parte I

Avoid: - That the discs come into direct contact with the ground.

- The compression of the springs.
- That the hydraulic hoses be properly capped.
- 04 When connecting or disconnecting the hydraulic hoses, do not let the ends touch the ground. Before connecting the hydraulic hoses, wipe the connections with a clean, lint-free cloth. Do not use tow!
- 05 Replace all adhesives, especially those about warnings, that are damaged or missing. Make everyone aware of the importance and risks of accidents when instructions are not followed
- 06 After all maintenance precautions, store your GCRTIS in a plain surface, covered and dried location, away from animals and children.
- 07 We recommend to wash the GCRTIS with water only on the beginning of works.



ATTENTION Do not use abrasives or chemical products to wash GCRTIS, it may damage its painting and adhesives.

Harrow conservation - Part I

To extend the service life and appearance of **GCRTIS** longer, follow the instructions below: Wash and clean all harrow components during and at the end of the work season

- 01 To extend the service life and appearance of GCRTIS longer, follow the instructions below: 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 handling guidelines provided by the manufacturer.
- **03** Always carry out maintenance during the periods indicated in this manual.
 - Harrow conservation Part II

The practices and precautions below if adopted by the owner or operator make the difference for the conservation of GCRTIS.

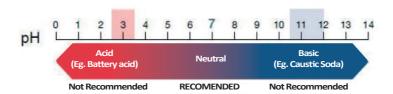
- 01 Be careful when performing high-pressure washing; do not direct the water jet directly into the connectors and electrical components. Isolate all electrical components;
- **02** Use only NEUTRAL detergent and water (pH equal to 7);
- 03 Apply the product, following the manufacturer's instructions strictly, on the wet surface and in the correct sequence, respecting the time of application and washing;



Maintenance

- **04** Stains and dirt not removed with the products should be removed with the aid of a sponge.
- **05** Rinse the machine with clean water to remove any chemical residues.
- 06 Do not use: Detergents with a basic active ingredient (pH less than 7) can damage/stain the paint on the harrow.

Do not use abrasives or chemical products to wash GCRTIS, it may damage its painting and adhesives.



- 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.
- as 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 time (absorption) and application intervals as recommended by the manufacturer.

Do not use abrasives or chemical products to wash GCRTIS, it may damage its painting and adhesives.

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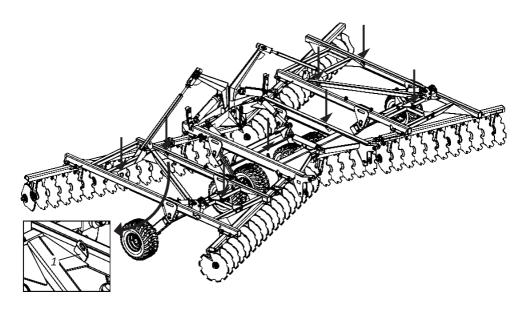
We recommend the following protective oils:
- Bardahl: Agro protective 200 or 300
- ITWChemical: Zoxol DW - Series 4000



Lifting

• Lifting points

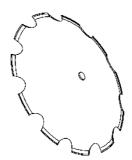
GCRTIS has several lifting points located in the struts. When mounting or servicing the **GCRTIS**, if you have to make a lifting, it is essential to couple the chains at the lifting points.



Optional

Cutting disc

GCRTIS can be optionally purchased with 26" or 28" cutting discs



TRIMMED DISC



- Identification

• Identification plate

To consult the parts catalogue or request Baldan technical assistance, always identify the model (01), serial number (02) and manufacture date (03), which can be found on the **GCRTIS** identification label (4).





The drawings herein are merely illustrative.



In case of doubts, never operate or handle GCRTIS, refer to Post-Sales. Telephone: 0800-152577 e-mail: posvenda@baldan.com.br

PUBLICATIONS

Code: 60550108170 | CPT: GCRTIS05918





INSTRUCTION MANUAL

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:

GCRTIS 73

INSTRUCTION MANUAL



■ Notes	

74



INSTRUCTION MANUAL

■ Notes	

GCRTIS 75

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.

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.



Certificate of Warranty

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

Implement:	Serial Number:		
Date:	Invoice No.:		
Dealer:			
Teleph <u>one:</u>	Zip Code:		
City:	State:		
Owner:			
Teleph <u>one:</u>			
Address:	Number:		
City:	State:		
E-mail:			
Sale date:			
Signature / Dealer Stamp			

1st copy - Owner:



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Implement:	Serial Number:		
Date:	_Invoice No.:		
Dealer:			
Teleph <u>one:</u>			
	S	tate:	
Owner:			
Teleph <u>one:</u>			
Address:			
	S	tate:	
E-mail:			
Sale date:			
Signature / Dealer Stamp			



Certificado de Garantia

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.

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Implement:	Serial Number:		
Date:	_Invoice No.:		
Dealer:			
Teleph <u>one:</u>			
	S	tate:	
Owner:			
Teleph <u>one:</u>			
Address:			
	S	tate:	
E-mail:			
Sale date:			
Signature / Dealer Stamp			

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

1.74.05.0059-5

AC MATÃO ECT/DR/SP

REPLY MAIL

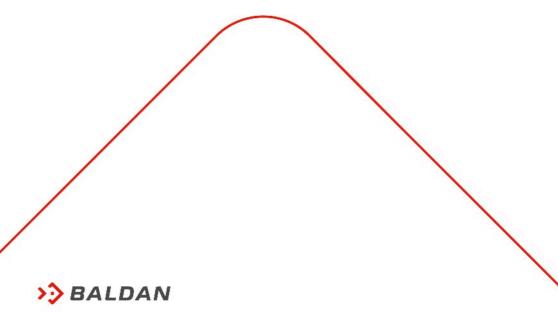
NO STAMPING IS REQUIRED

THE STAMP WILL BE PAID BY:



BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

Av. Baldan, 1500 | Nova Matão | CEP: 15993-900 | Matão-SP. | Brazil Telephone: (16) 3221-6500 | Fax: (16) 3382-6500 www.baldan.com.br | email: sac@baldan.com.br | Export: Tel: +55 (16) 3221-6500 | Fax: +55 (16) 3382-4212 | 3382-2480 email: export@baldan.com.br



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