



Baldan

INSTRUCTION MANUAL



DCFr / DCFc

**LIME AND FERTILIZER SPREADER
(TRANSMISSION BY BELTS OR GEARBOX)**

■ Presentation

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



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

BALDAN assures that 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.

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(Transmission by Belts or Gearbox)**



▪ Index

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▪ **Baldan Warranty**

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

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

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

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

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

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



ATTENTION



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



ATTENTION



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



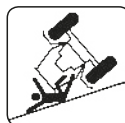
ATTENTION



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



ATTENTION



There are risks of severe injuries due to tipping when working in sloped terrains.



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 hit.



ATTENTION



Careful when handling DCFr/DCFc support leg since there is risk of accidents.

▪ Safety Rules

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

! ATTENTION



Do not perform adjustments while DCFr/DC-Fc is running. When performing any service on DCFr/DCFc, switch off the tractor first. Use appropriate tools.

! ATTENTION



Avoid heating parts near the fluid lines. Heating may generate fragility in the material, rupture and exit of pressurized fluid, causing burns and injuries.

! ATTENTION

25
KM/H

15
MPH

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

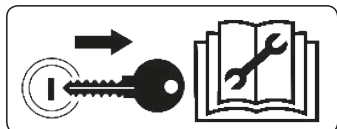
! ATTENTION

12
KM/H

7
MPH

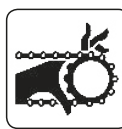
When working with DCFr/DCFc, do not exceed the 12 km/h or 7 MPH speed, avoiding damage and accident risks.

! ATTENTION



Remove the ignition key before performing any type of maintenance in DCFr/DCFc. Protect yourself against possible injuries or death caused by DCFr/DCFc unexpected start-up. Do not start up the tractor if DCFr/DCFc is not properly coupled.

! ATTENTION



Do not operate DCFr/DCFc if transmission protection is not securely attached. Only remove the protections to replace gears and immediately reinstall them. Do not perform adjustments while DCFr/DC-Fc is in motion.

▪ Safety Rules

ATTENTION



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

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 (armor cage).

ATTENTION



There is risk of possible injuries or death to the DCFr/DCFc operator and audience during operations due to the following reasons:

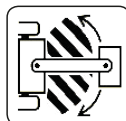
- Body contact with rotating disks.
- Engagement of the body in the drive shaft and rotary shaft.

ATTENTION



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

ATTENTION



Maintain the articulation area free while DCFr/DCFc is running.

In closed curves, avoid the tractor wheels from touching the head.

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

ATTENTION

To prevent intoxications, injuries or death when the DCFr/DCFc is running and rotating discs are spinning, proceed in the following manner:

- Stop and turn off the DCFr/DCFc equipment if there are people under 50 meters.
- Do not be exposed to product drift.

- Do not place hands or feet under the rotating discs.



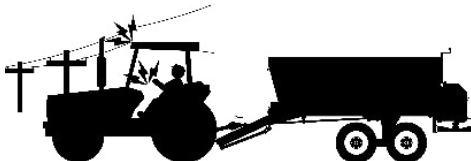
- Never allow people - especially children - on or under the DCFr/DCFc.

ATTENTION

DCFr/DCFc can release fragments or release objects at high speeds which can cause serious injury or death to nearby people.

ATTENTION

Be careful when driving or working with DCFr/DCFc under power lines, low tree branches and other high obstructions, avoiding serious injury or even death.



ATTENTION



Do not get exposed to the air coming out of rotating discs. Use protection.

- During handle and application, use PPE.
- Read the product's label carefully.
- Wash your hands thoroughly after handling the products.

-In case of intoxication due to inhalation or aspiration, keep the person in a ventilated area and immediately seek medical advice, taking the label or the packaging of the product.



INTOXICATION SYMPTOMS:

Weakness, headache, chest pressure, chest tightness, blurred vision, unresponsive pupils, intense salivation, sweating, nausea, vomiting and abdominal cramps.

▪ Safety Rules

• PPE Equipment

! ATTENTION | DO NOT WORK WITH DCFr/DCFc WITHOUT FIRST PUTTING PPES (SAFETY EQUIPMENT) ON. IGNORING THIS WARNING MAY CAUSE DAMAGES TO HEALTH, SEVERE ACCIDENTS OR DEATH.

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



! IMPORTANT

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

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



▪ Warnings

- ⚠ When operating the DCFr/DCFc, do not allow people to stay too close or over it.
- ⚠ When operating the DCFr/DCFc, observe if there are no people positioned on the throwing line of the distributor discs.
- ⚠ When performing any maintenance service, use PPEs equipment.
- ⚠ When conducting any check inside DCFr/DCFc, do not lean on the distributor discs.
- ⚠ Do not wear very loose clothing as they may get caught in DCFr/DCFc.
- ⚠ When starting the tractor motor, be properly seated in the operator seat and aware of the correct and safe handling of both the tractor and the DCFr/DCFc.
- ⚠ 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 DCFr/DCFc, 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 while DCFr/DCFc is running.
- ⚠ 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 DCFr/DCFc.
- ⚠ 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 brake 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 DCFr/DCFc coupled to the tractor in the raised position of the hydraulic system.
- ⚠ All maintenance on the DCFr/DCFc shall be performed with the equipment stopped and with the tractor switched off.
- ⚠ Do not travel on highways especially at night. Use warning signs throughout the course.
- ⚠ If it is needed to traffic with DCFr/DCFc on highways, first consult with traffic agencies.

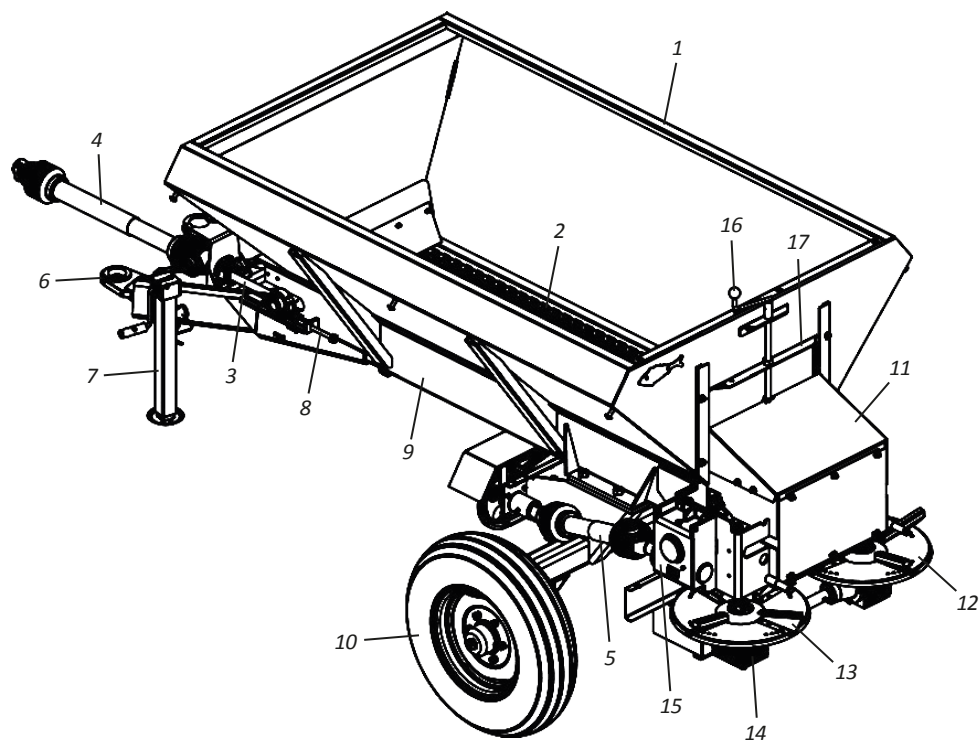
■ Warnings

-  Do not allow DCFr/DCFc to be used by people who have not been trained, that is, who do not know how to properly operate it.
-  Do not transport or work with DCFr/DCFc around obstacles, rivers or streams.
-  The transportation of people on self-propelled machines and implements is forbidden.
-  Changes regarding DCFr/DCFc's original characteristics are not authorized since they may change safety, operation and affect service life.
-  Carefully read all safety information herein and in DCFr/DCFc.
-  Read or explain all the procedures of this manual to the operator who cannot read.
-  Always check if DCFr/DCFc is in perfect usage conditions. In case of any irregularity that may interfere in DCFr/DCFc operation, arrange due maintenance before any work or transport.
-  Maintenance and especially inspection in DCFr/DCFc risk zones should only be performed by trained and qualified worker, respecting all safety guidance. Before beginning maintenance, disconnect all DCFr/DCFc drive systems.
-  Periodically check all DCFr/DCFc components before using it.
-  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 DCFr/DCFc.
-  Check the minimum power of the tractor recommended for each model of DCFr/DCFc. Only use tractor with power and ballast compatible with the load and topography of the terrain.
-  During DCFr/DCFc transportation, drive in speeds compatible to the terrain and never exceeding 16Km/h, since it reduces maintenance and, therefore, increases DCFr/DCFc service life.
-  Do not approach the moving distributors discs.
-  Do not stay in the product throwing line.
-  Never disengage the DCFr/DCFc with the product in the Bucket. Ignoring this warning can cause risk of tipping over accidents.
-  Alcoholic beverage or some medications may cause loss of reflexes and change the operator's physical conditions. For this reason, never operate the DCFr/DCFc under any of these substances.
-  Read or explain all the procedures of this manual to the operator who cannot read.

▪ Components

• DCFr - Lime and Fertilizer Spreader (Transmission by Gearbox)

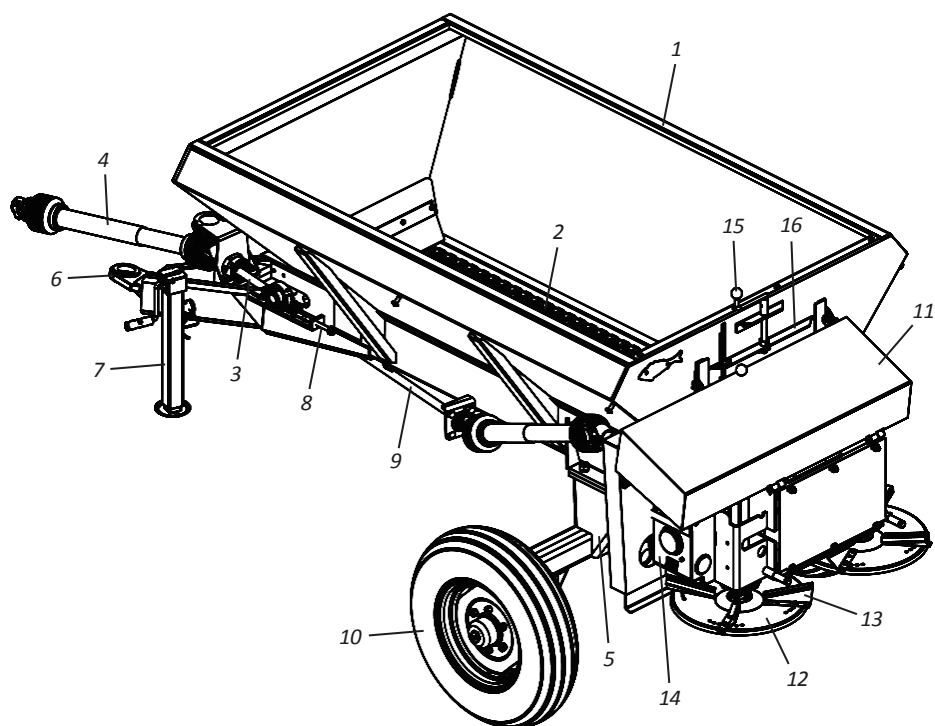
- | | |
|------------------------|-----------------------------|
| 1. Bucket | 10. Tire |
| 2. Modulated Conveyor | 11. Transmission protection |
| 3. Central Shaft | 12. Rotating Disks |
| 4. Central Cardan | 13. Adjustable vanes |
| 5. Lateral Cardan | 14. Transmission Gearbox |
| 6. Hook Shackle | 15. Reduction Gearbox |
| 7. Support Bracket | 16. Regulator |
| 8. Conveyor Turnbuckle | 17. Rear Cover |
| 9. Framework | |



▪ Components

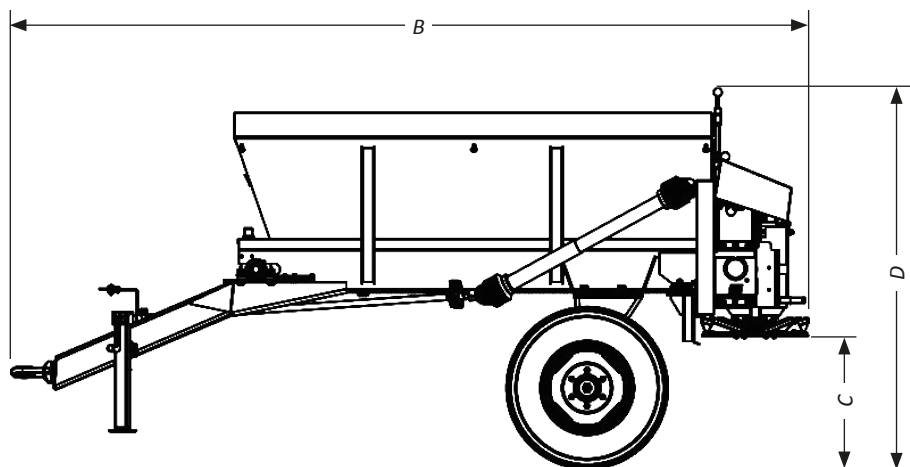
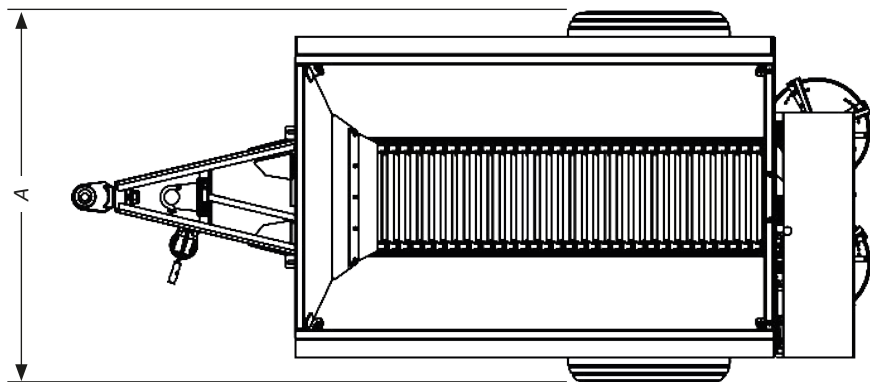
• DCFc - Lime and Fertilizer Spreader (Transmission by Belts)

- | | |
|------------------------|-----------------------------|
| 1. Bucket | 09. Framework |
| 2. Modulated Conveyor | 10. Tire |
| 3. Central Shaft | 11. Transmission protection |
| 4. Central Cardan | 12. Rotating Disks |
| 5. Lateral Cardan | 13. Adjustable vanes |
| 6. Hook Shackle | 14. Reduction Gearbox |
| 7. Support Bracket | 15. Regulator |
| 8. Conveyor Turnbuckle | 16. Rear Cover |



▪ Dimensions

- DCFr/DCFc 3000
- DCFr/DCFc 6000



Model	Measurement A (mm)	Measurement B (mm)	Measurement C (mm)	Measurement D (mm)
DCFr/DCFc 3000	1760	3843	639	1833
DCFr/DCFc 6000	1886	4561	639	1935

▪ Specifications

- DCFr/DCFc 3000
- DCFr/DCFc 6000

Model	Load Capacity (m ³)	Wheelset	Approximate Weight (Kg)	Tractor Power (Hp)
DCFr/DCFc 3000	1,60	Simple (2 Tires)	850	50 - 70
DCFr/DCFc 6000	2,80	Tandem (4 Tires)	1203	75 - 90

Lime Discharge 12.000 Kg/Ha
 Distribution Width 6 - 10 m
 RPM on PTO 540 Rpm

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. Technical specifications are approximate and informed under normal work conditions.

DCFr/DCFc INTENDED USE

- DCFr/DCFc was developed to be used in limestone distribution for liming purposes.
- DCFr/DCFc should only be used and started by a properly instructed operator.

DCFr/DCFc USE IS NOT ALLOWED

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

▪ Assembly

DCFc/DCFr leaves the factory semi-assembled, only missing the tires that were removed for easier loading and transportation. To assembly it, follow the instructions below:

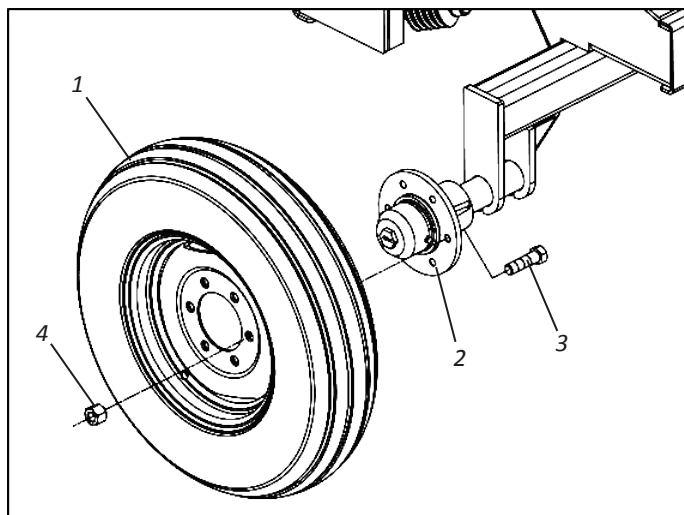
- ⚠ The assembly of **DCFr/DCFc** shall be performed by the dealer, by trained, skilled and qualified personnel for this work.
- ⚠ Before beginning the **DCFr/DCFc** assembly, look for a good place that facilitates the identification of the parts and their assembly.
- ⚠ Do not use loose clothing because they may get entangled in the **DCFr/DCFc**.

▪ Assembly

• Tire Assembly

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

01 - Attach the tire (1) to the hub (2) tightening with screws (3) and nuts (4).



DCFr/DCFc

⚠ **ATTENTION**

Check the correct tire calibration on page 43.

🔍 **OBSERVATION**

Repeat the procedure above to assemble the other tire.

▪ Hitch

• Tractor Hitch

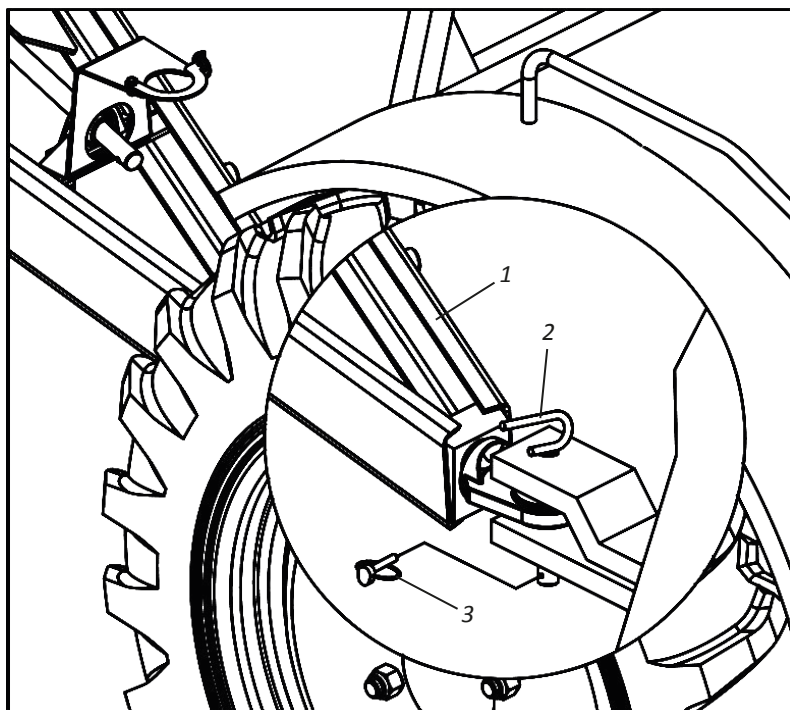
Before attaching the **DCFr/DCFc** to the tractor, make sure the tractor is ready for work by observing the following item:

- Check if the tractor has weight or ballast sets in the front wheels to grant the tractor greater stability and traction on the ground.

To couple-up the **DCFr/DCFc**, proceed as follows:

- 01** - Slowly approach the tractor to the **DCFr/DCFc** in reverse, being aware when to use the brakes.
- 02** - Engage the **DCFr/DCFc** header (1) to the tractor by attaching it through the hitch pin (2), and lock (3).

DCFr/DCFc



! IMPORTANT

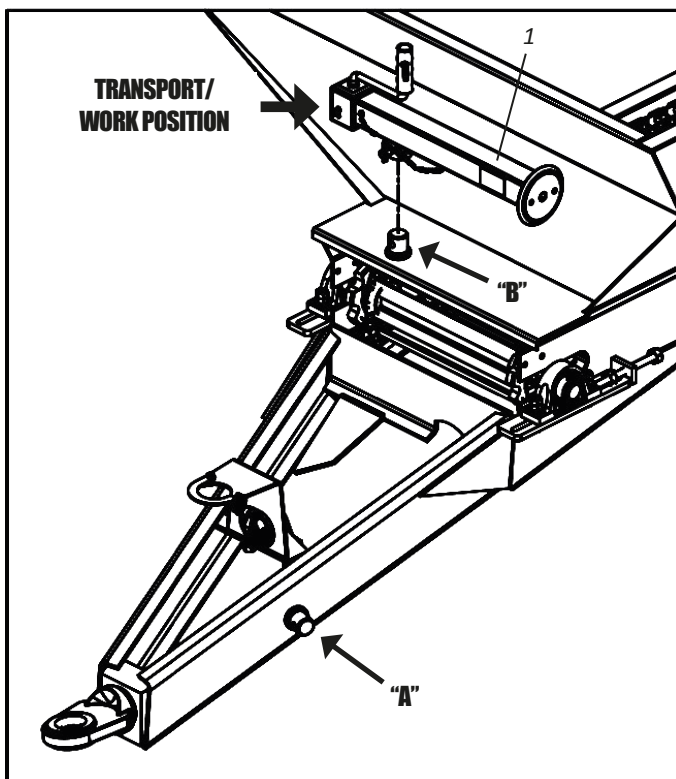
When coupling DCFr/DCFc, look for a safe place and with easy access.
Always use low gear with low acceleration.

▪ Hitch

• Support Bracket

After engaging the DCFr/DCFc on the tractor, place the support bracket (1) in the transportation/work position by doing the following:

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



DCFr/DCFc



ATTENTION

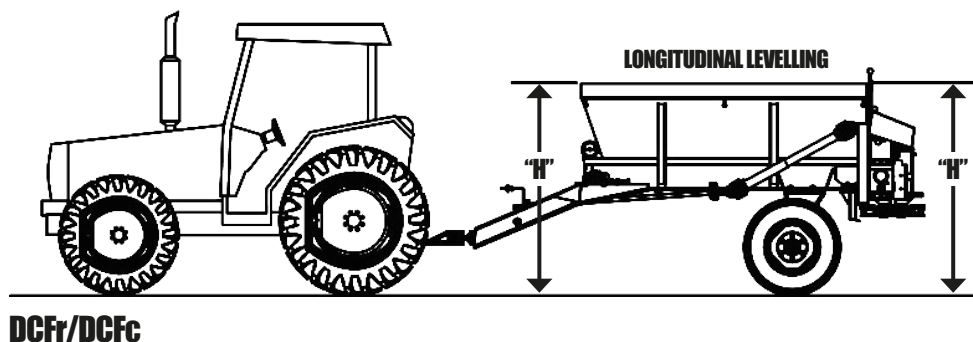
Do not work or transport the DCFr/DCFc with the support bracket (1) at point "A". Ignoring this warning may cause severe accidents or damages.

▪ Levelling

• Distributor Levelling

To level the **DCF_r**/**DCF_c**, proceed as follows:

- 01** - First off, the tractor must be in a flat location.
- 02** - Next, level the distributor, watching the longitudinal levelling (length) in relation to the ground, from the side.
- 03** - Otherwise, level it through the tractor's drawbar, using the height that results in the best **DCF_r**/**DCF_c** leveling.



ATTENTION

Read the instructions manual of the tractor and make sure of the positions in which you can work with the drawbar.

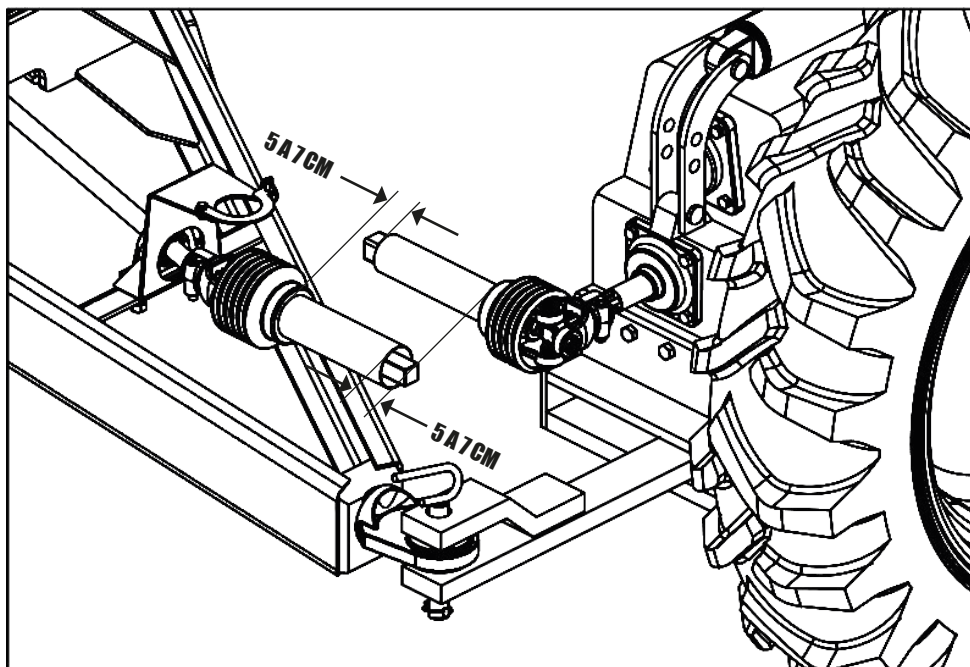
▪ Adjustment

• TDP Cardan coupling

Before engaging the cardan, check the length of the tractor with respect to the tractor model that will pull the DCFr/DCFc, as follows:

- 01** - First off, the tractor must be in a flat location.
- 02** - Separate the cardan parts by coupling one part in the TDP and the other in the **DCFr/DCFc**.

Then, steer the tractor until one of the rear tires approaches the maximum **DCFr/DCFc**. Place the cardan parts side by side and check for a minimum clearance of 5 to 7 cm between the "tongued" and "grooved", otherwise cut the cardan according to the instructions on the following page.



DCFr/DCFc

! IMPORTANT

When coupling DCFr/DCFc, look for a safe place and with easy access.

Before engaging the cardan, check the length of the tractor with respect to the tractor model that will pull the **DCFr/DCFc**.

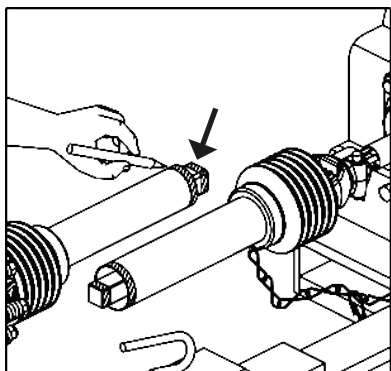
• Cardan length adjustment

! IMPORTANT

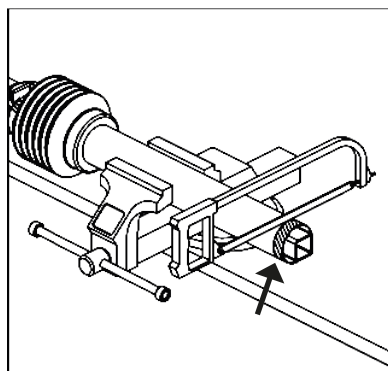
Before cutting the cardan, check the adjustment of the tractor's drawbar, which can increase or decrease its compliance, avoiding the cardan cut.

To perform the cardan cut, proceed as follows:

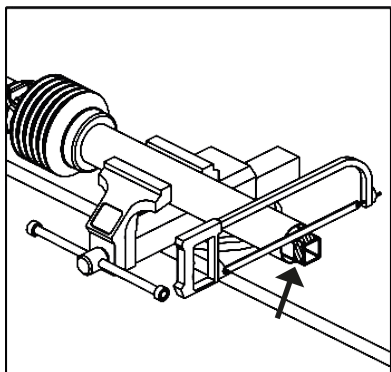
DCFr/DCFc



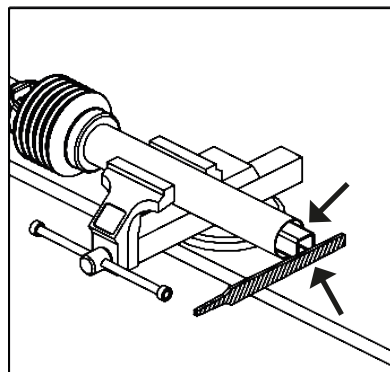
Secure the shaft halves from the shaft close to each other in the working position and mark the part to be cut.



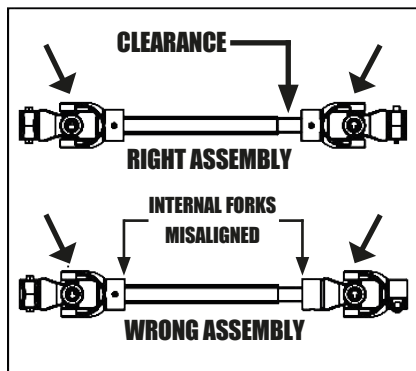
Shorten the inner and outer guards of the cardan proportionally.



Cut the inner bars of the cardan in the same length as the protective tubes.

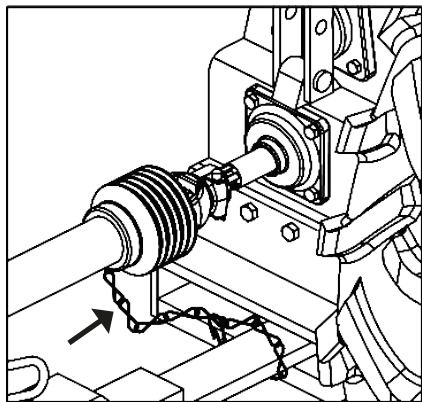


Remove all burrs and edges. Clean and grease the cardan bars.



When assembling, observe that the internal and external terminals are always in the same plane, aligned. Also check the clearance on the telescopic axle, which should be of 5 to 7 cm.

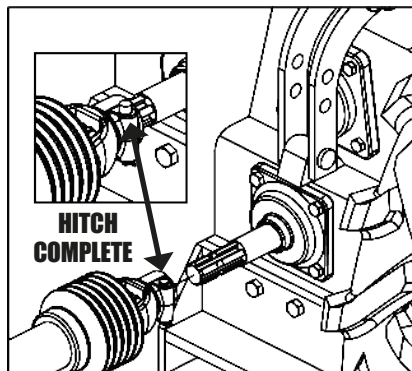
DCFr/DCFc



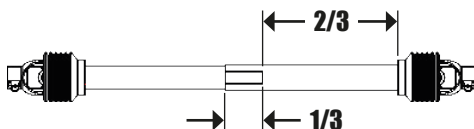
Do not engage the stretched cardan chains. Keep a gap in the installation and consider angular movements.

ATTENTION

Incorrect mounting of the cardan causes excessive vibration, which is harmful to the transmission.
When engaging the cardan in the TDP, the tractor must be switched off with the parking brake applied.



Attach the flange to the TDP axle of the tractor observing that the engagement will only be completed when the lock (1) jumps out.



IMPORTANT

The contact surface between the pipe and the bar may never be smaller than 1/3 of the total length.

Every time you change the tractor, check the cardan shaft.

OBSERVATION

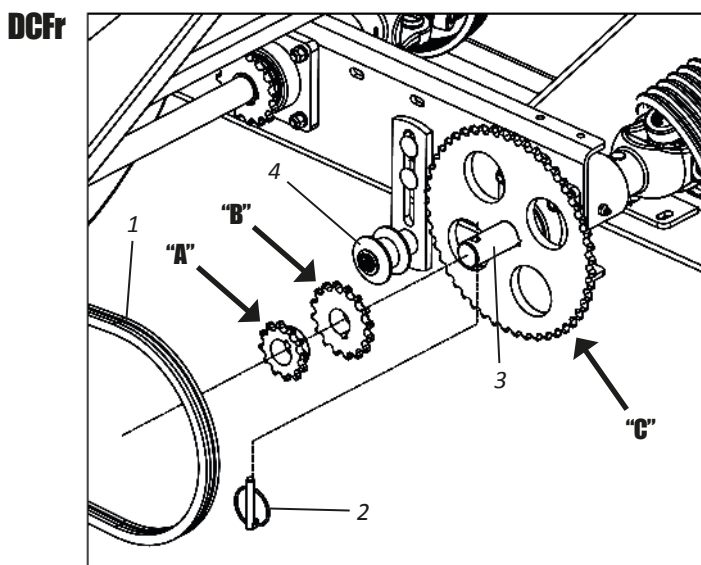
Check the cardan's joint angle on page 35 and other recommendations for using it.

▪ Adjustment

• Conveyor Speed - DCFr

When engaging the cardan in the TDP, the tractor must be switched off with the parking brake applied. This speed has the function of feeding the disks to obtain a uniform distribution. **DCFr** leaves the factory with a gear combination of **16/48**, for the other combinations, **16/16** and **16/12**, proceed as follows:

- 01** - Take the cardan (1) and the chain (2) off.
- 02** - Then, loosen the retaining ring (3) and remove the "A" gear.
- 03** - Next, loosen the locking ring (4) and remove the "B" gear.
- 04** - Then, according to your need, replace the "A" and "B" gears by the "C" and "D" gears that are attached to the **DCFc** via the flat washer (6) and wingnut (7).
- 05** - After changing the gears, finally place the chain (2), the cardan (1) and adjust the chain tension through the tensioner (5) using the tensioner (5).



Assembly	Gears Combination	
	Motor	Moving
1	16 Teeth	48 Teeth
2	16 Teeth	16 Teeth
3	16 Teeth	12 Teeth

ATTENTION

Depending on the combination of gears mounted, there will be a need to decrease the current through the splice therein. Do not work with a loose chain.

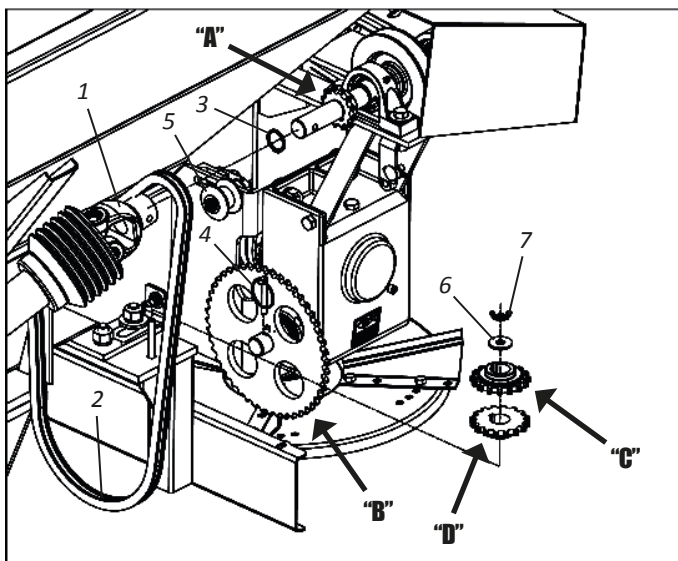
▪ Adjustment

• Conveyor Speed - DCFc

When engaging the cardan in the TDP, the tractor must be switched off with the parking brake applied. This speed has the function of feeding the disks to obtain a uniform distribution. **DCFc** leaves the factory with a gear combination of 16/48, for the other combinations, **16/16** and **16/12**, proceed as follows:

- 01** - Take the cardan (1) and the chain (2) off.
- 02** - Then, loosen the retaining ring (3) and remove the "A" gear.
- 03** - Next, loosen the locking ring (4) and remove the "B" gear.
- 04** - Then, according to your need, replace the "A" and "B" gears by the "C" and "D" gears that are attached to the **DCFc** via the flat washer (6) and wingnut (7).
- 05** - After changing the gears, finally place the chain (2), the cardan (1) and adjust the chain tension through the tensioner (5).

DCFc



Assembly	Gears Combination	
	Motor	Moving
1	16 Teeth	48 Teeth
2	16 Teeth	16 Teeth
3	16 Teeth	12 Teeth

ATTENTION

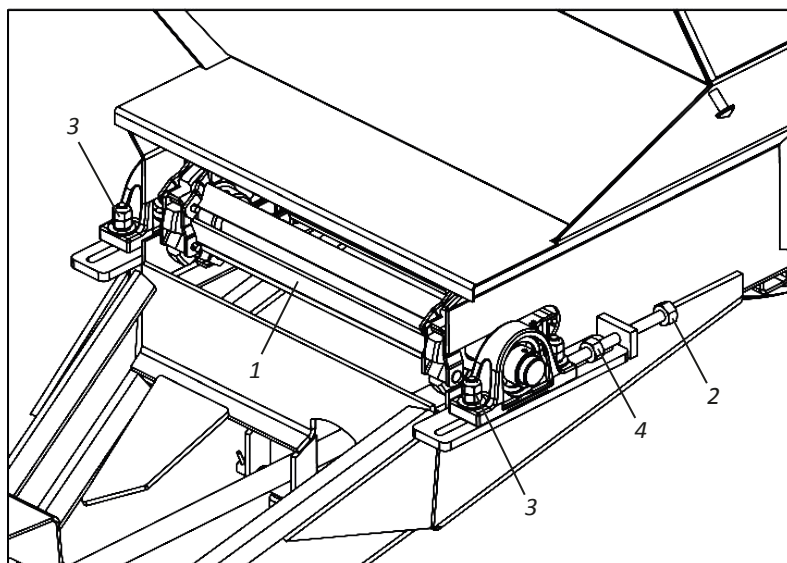
Depending on the combination of gears mounted, there will be a need to decrease the current through the splice therein. Do not work with a loose chain.

▪ Adjustment

• Conveyor Tension

To adjust the conveyor (1) tension, proceed as follows:

- 01** - First, turn the power plug and the tractor's motor off.
- 02** - Then, make sure that DCF is empty, if not, make it empty.
- 03** - After, press the conveyor from the bottom up and observe if there is a gap of up to 50 mm in relation to the bottom of DCF.
- 04** - If there is a larger gap, adjust the tension of the conveyor through the tensioners (2), loosening the nuts and locknuts (3) and tightening the bearing position (4).



ATTENTION

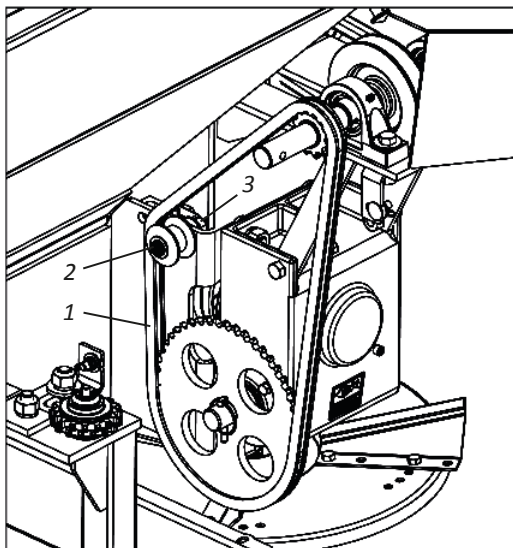
When adjusting the conveyor tension, adjust both sides evenly, avoiding the conveyor misalignment. In the first hours of work, check the conveyor tension. Then, perform a daily check. When the belt tension adjustment reaches the end, one or more links must be removed from it, returning the tensioner to the starting position.

▪ Adjustment

• Chain Tension

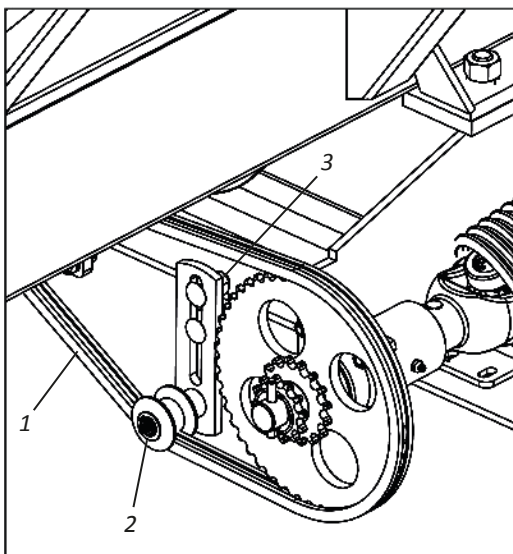
- The chain tension (1) is performed through the tensioner (2). To adjust the chain (1) tension, proceed as follows:

- 01** - Loosen the nut (3), slide the tensioner (2) by adjusting the chain tension (1).
- 02** - Next, tighten the screw (3) once more, fixing the tensioner (2).



DCFc

DCFr



ATTENTION

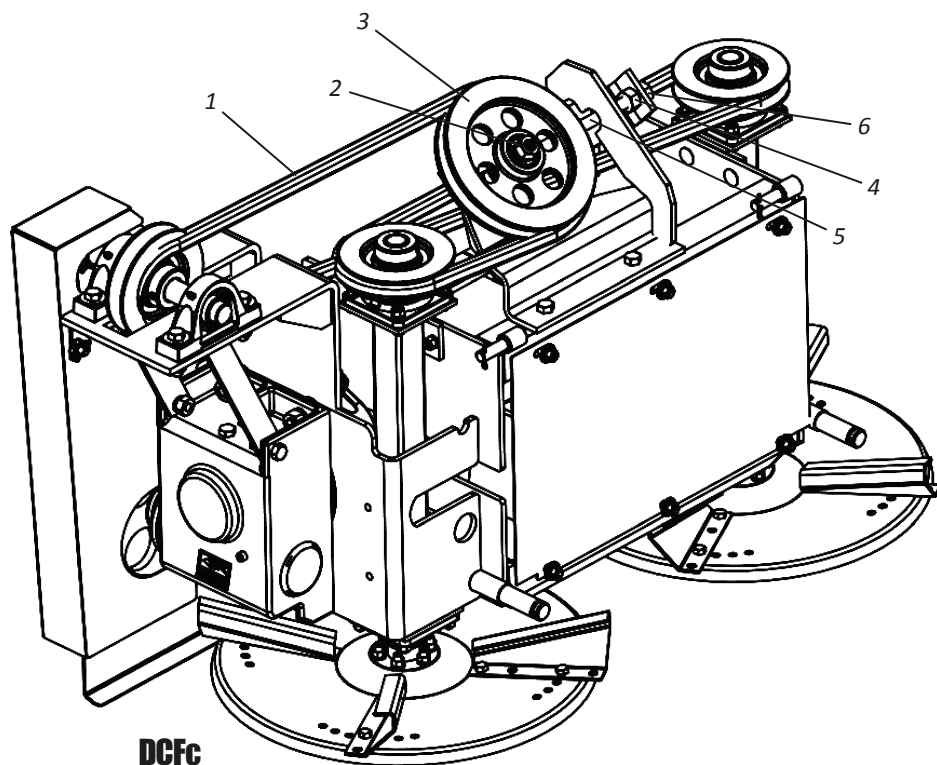
Check the chain tension daily, the normal clearance should be ± 1 cm in the center of the chain.

▪ Adjustment

• Belt Tension

To adjust the belt (1) tension, proceed as follows:

- 01 - Loosen the nut (2) from the pulley (3), along with the inner nut (4) from the tensioner (5).
- 02 - Then tighten the belt tension (1) through the outer nut (6) of the tensioner (5) and then retighten the inner nut (4) and the nut (2) from the pulley (3).



ATTENTION

In the first hours of work, check the chain tension. Then, perform a daily check. Do not run DCFc with loose chains.

IMPORTANT

The allowed clearance is of 3.5cm.

▪ Adjustment

• Belt Replacement

TO REPLACE THE BELT, PROCEED AS FOLLOWS:

01 - Loosen the nuts (1) from the tensioner (2), and the nut (3) from the pulley (4). Next, take the chain (5) off.

TO PLACE THE BELT, PROCEED AS FOLLOWS:

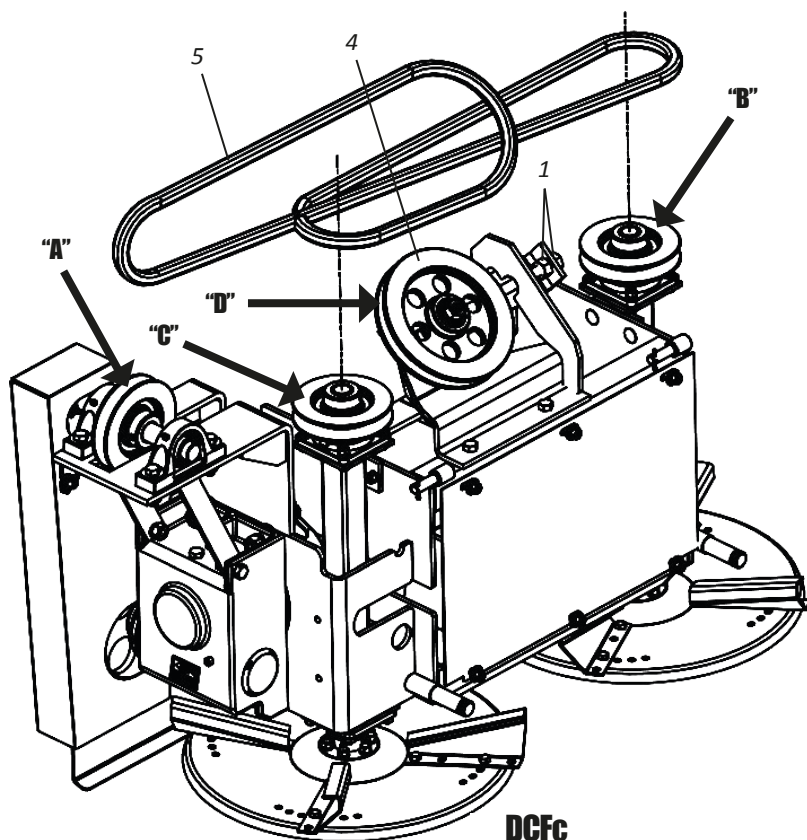
01 - Start the belt (5) placing, positioning it on the "A" pulley.

02 - Next, slide the lower part of the belt (5) onto the "B" pulley from the right distributor disc.

03 - Then twist the belt (5) and thread it into the "C" pulley from the left distributor disc.

04 - Finally, pass the belt (5) through the "D" pulley from the tensioner (2).

05 - After finishing placing the belt (5), tension it, adjusting the tensioner (2) and tight the nut (3) from the pulley (4).

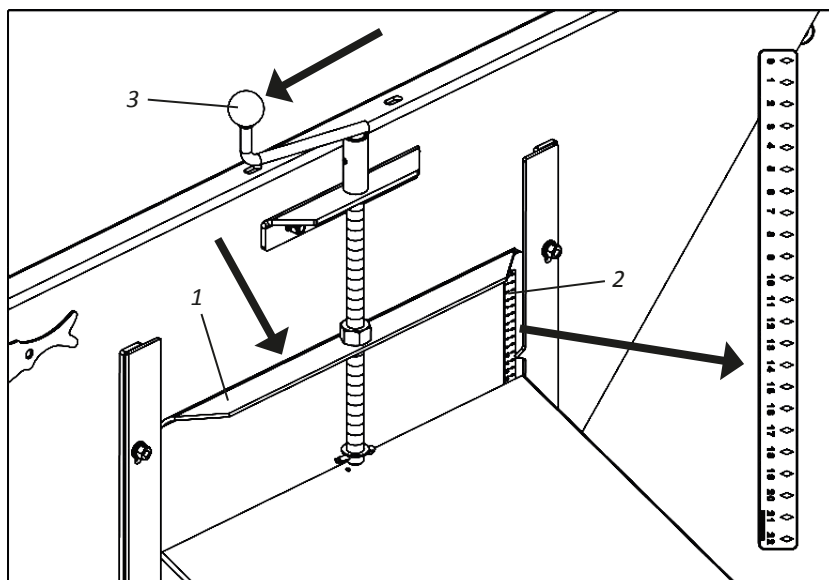


▪ Adjustment

• Shut-off gate adjustment

DCFr/DCFc has a Shut-off gate (1) that, through a step range (2), adjusts the amount of product to be distributed. To adjust the product flow, proceed as follows:

- 01** - Turn the handle (3), adjusting the opening or closing of the gate (1) according to the step range (2) which goes from (0 to 22).



DCFr/DCFc



See pages 39, 40 and 41 for distribution tables to regulate Shut-off gate (1) and step range (2).

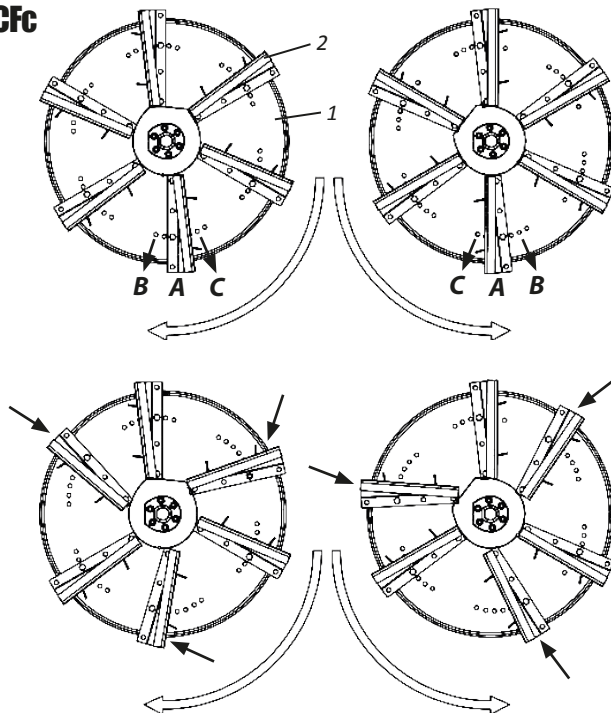
▪ Adjustment

• Vanes Position in the power distribution disks

The distributor discs (1), have adjustable fins (2) which make the uniform distribution both at high and low dosage.

By varying the fins (2) angle, the width of the application range and the product direction are changed. To adjust the vanes, proceed as follows:

DCFr/DCFc



POSITION "A"

Medium distribution width and intermediate product targeting.

POSITION "B"

Smaller distribution width and more centralized product targeting.

POSITION "C"

Larger distribution width and the product will be more edge oriented.

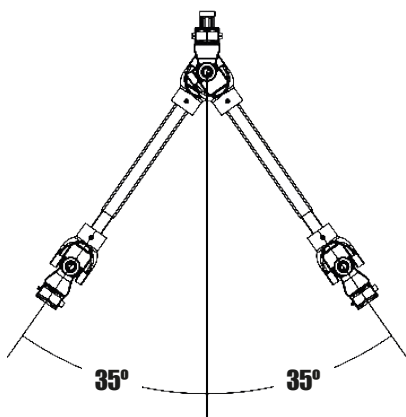
ATTENTION

If it is required to change the procedure from a part to obtain better uniformity in the distribution, only 3 fins can be adjusted at different angles from the others, by intersperse them, changing the positions on the disc.

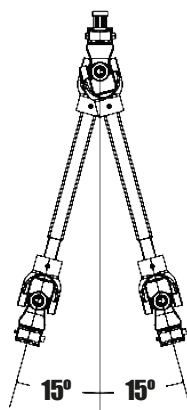
Adjustment

• Cardan recommendations

The cardan is limited in its maximum angle of articulation. This angle, with running cardan, can reach a maximum of 35° for a short period of time. In continuous work, it should not exceed 15°.



IN A SHORT PERIOD OF TIME



IN CONTINUOUS WORK

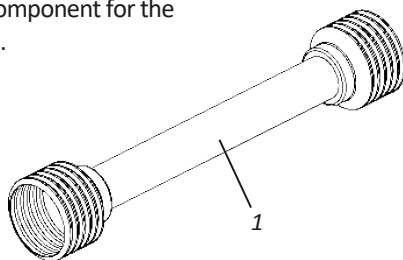
ATTENTION

Never engage the TDP when the joint is at an angle greater than 15°. When maneuvering with TDP off, never exceed 35° of pivot angle, this may occur in transport routes or maneuvers in sheds with the cardan coupled up.

Safety protection (1) is a fundamentally important component for the user's personal safety and for the cardan shaft's lifespan.

IMPORTANT

Do not work with the DCFr/DCFc if the cardan is not protected (1). Ignoring this warning may cause severe accidents or cardan damages.



OBSERVATION

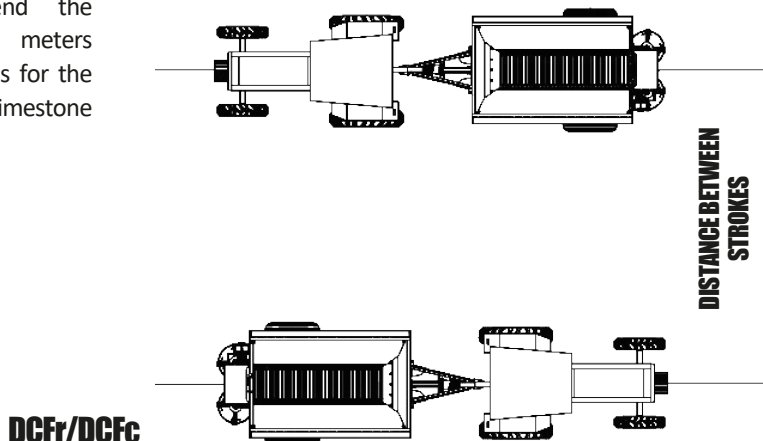
The information on this page has been taken from the cardan manufacturer's catalog.

▪ Operations

• Distance between strokes

The distance between the passes must be well observed by the operator in order to achieve a homogeneous distribution throughout the area. However, during the work, a variation up to 25% in the amount distributed between the passes is accepted.

We recommend the distance of 7 meters between the passes for the distribution of dry limestone and plaster.



ATTENTION

Do not allow people and animals to keep close while working.

IMPORTANT

We recommend you do not increase distance between strokes.

• Overlapping

The overlap is the covering of the product being distributed at the end of the edge of the range just prior to the one being performed, this is done to compensate for the distribution deficiency which occurs naturally at the range edges.



ATTENTION

Do not perform adjustments while DCFr/DC-Fc is in motion or with the transmission active.

▪ Operations

• Recommendations for the operation

The preparation of DCFr/DCFc 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.

GENERAL RECOMMENDATION - PART I

- 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** - Check that the DCFr/DCFc coupling is complete and leveled. Place the support bracket in the transport position and maintain the drawbar of the tractor fixed.
- 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 DCFr/DCFc.
- 05** - Observe the working and transport speeds specified on page 10. We do not recommend you to exceed the speeds to maintain service efficiency and avoid possible damage to DCFr/DCFc.
- 06** - During work or transport, the tractor's drawbar must remain fixed.
- 07** - Do not transport or work with excess load over the DCFr/DCFc.
- 08** - Before starting work, do a thorough review at DCFr/DCFc. Crossheads should be lubricated, check the oil level from the multiplier box and retighten nuts and screws. Also check the locking of pins and cotters.
- 09** - The ideal rotation is 540 rpm on TDP. Check the corresponding rotation on the motor, in the tractor manual. This rotation on the traction motor changes from tractor to tractor.
- 10** - Always observe the limestone distributing mechanisms operation and the settings established at the start of the work as well.
- 11** - When performing any maintenance on the DCFr/DCFc, the motor must be switched off.
- 12** - Check the conveyor tension and the transmission belt as well.
- 13** - Do not make sharp turns with DCFr/DCFc while working.
- 14** - DCFr/DCFc has several adjustments, but only local conditions can determine the best adjustment.
- 15** - Check the correct DCFr/DCFc tire calibration according to the tire model on page 43.
- 16** - Before supplying the DCFr/DCFc, check that there are no objects inside the bucket, such as sticks, stones, sacks, canvas, parts, etc. Make sure the product you are using does not contain foreign objects.

▪ Operations

▪ **GENERAL RECOMMENDATION - PART II**

17 - Watch the lubrication interval.

18 - To engage or uncouple the cardan, the TDP must be switched off.

19 - The weight of the product is related to its granulometry and density.

20 - The distributor operates more efficiently in the range of 5 to 7 km/h.

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

▪ Distribution System

• Dry Limestone Distribution table - Kg/ha

Gears: Motor 16 teeth Moving 48 teeth			Rotation PTO 540 RPM			Weight 1500 Kg/m		
Scale Opening	Amount of Kg per second	Wind speed						
		4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h
		Amount of Kg per Hectare						
0	0,29	0371	0297	0247	0212	186	164	148
1	0,38	0493	0394	0329	0282	247	219	197
2	0,46	0593	0474	0395	0339	296	264	236
3	0,59	0765	0612	0510	0437	383	340	306
4	0,67	0857	0686	0571	0490	429	380	343
5	0,82	1070	0856	0713	0611	535	476	428
6	0,97	1250	1000	0833	0714	625	554	500
7	1,06	1357	1086	0905	0775	679	603	543
8	1,11	1429	1143	0953	0817	715	635	572
9	1,22	1577	1257	1047	0898	786	698	628
10	1,33	1714	1371	1142	0979	857	762	686
11	1,39	1785	1428	1190	1020	893	794	714
12	1,44	1857	1486	1238	1061	929	825	743



ATTENTION

Due to different granulometry and specific weights from the applied products, variations can be observed in relation to the presented table. We recommend that you perform practical tests on page 42 before applying.

▪ Distribution System

• Dry Limestone Distribution table - Kg/ha

Gears: Motor 16 teeth Moving 16 teeth			Rotation PTO 540 RPM			Weight 1500 Kg/m		
Scale Opening	Amount of Kg per second	Wind speed						
		4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h
		Amount of Kg per Hectare						
0	1,39	1785	1428	1190	1020	0892	0793	0714
1	1,72	2213	1770	1475	1265	1106	0984	0880
2	2,05	2641	2113	1760	1509	1320	1174	1056
3	2,39	3069	2455	2046	1754	1535	1364	1228
4	2,72	3497	2797	2331	1998	1749	1554	1399
5	3,05	3925	3140	2617	2243	1963	1744	1570
6	3,39	4357	3486	2905	2490	2178	1936	1743
7	3,70	4750	3800	3167	2714	2375	2111	1900
8	4,00	5143	4114	3429	2939	2572	2286	2057
9	4,30	5536	4429	3691	3163	2768	2460	2214
10	4,61	5929	4743	3953	3388	2965	2635	2372
11	4,92	6322	5058	4214	3612	3161	2810	2529
12	5,22	6714	5371	4476	3836	3357	2984	2686



Due to different granulometry and specific weights from the applied products, variations can be observed in relation to the presented table. We recommend that you perform practical tests on page 42 before applying.

▪ Distribution System

• Dry Limestone Distribution table - Kg/ha

Gears: Motor 16 teeth Moving 12 teeth			Rotation PTO 540 RPM			Weight 1500 Kg/m		
Scale Opening	Amount of Kg per second	Wind speed						
		4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h
		Amount of Kg per Hectare						
0	1,85	2377	1902	1585	1358	1188	1056	951
1	2,29	2941	2353	1961	1681	1471	1307	1176
2	2,73	3506	2804	2337	2003	1753	1558	1402
3	3,19	4087	3270	2725	2335	2043	1816	1635
4	3,63	4651	3721	3101	2658	2326	2067	1860
5	4,07	5216	4172	3477	2980	2608	2318	2086
6	4,52	5797	4638	3865	3313	2898	2576	2319
7	4,93	6327	5062	4218	3615	3164	2812	2531
8	5,33	6840	5472	4560	3909	3420	3040	2736
9	5,73	7353	5882	4902	4202	3677	3268	2941
10	6,15	7883	6306	5255	4505	2942	3504	3153
11	6,56	8413	6731	5609	4808	4207	3739	3365
12	6,96	8926	7141	5951	5101	4463	3967	3570



Due to different granulometry and specific weights from the applied products, variations can be observed in relation to the presented table. We recommend that you perform practical tests on page 42 before applying.

▪ Calculation

• Work Speed Calculation

In order to calculate the speed, proceed as follows:

- 01** - Place the product to be applied to the middle of the **DCFr/DCFc** tank.
- 02** - Then place two spaced marks at 100 meters in the application area.
- 03** - Then, calculate the time used to go through the distance with the **DCFr/DCFc** coupled up.
- 04** - Then calculate the time measured in kilometers (km) using the following formula:

$$\text{Km/hr} = \text{Distance travelled} / \text{Spent time in seconds} \times 3.6 = (\text{conversion factor from m/s to Km/hr}).$$

Example:

$$\text{Km/hr} = 100 / 60s \times 3,6 = 6 \text{ Km/h}$$

• Fertilizer Dosage Calculation per minute

To perform the calculation, turn off the distributor discs, if it is with a reducer, remove the cardan from the discs, if it is a belt, remove the belt, start the **DCFr/DCFc** at 540 rpm and keep it in place. Then collect the product by measuring the time.

$$\text{Formula: } S = \frac{VT \times LT \times D}{600}$$

Formula Data: **S** = Product output (Kg/min).
VT = Work Speed (Km/h).
LT = Working width (Application Range).
D = Dosage (Kg/ha).

$$\text{Example: } S = \frac{6 \times 12 \times 300}{600} = 36 \text{ (Kg/min)}.$$

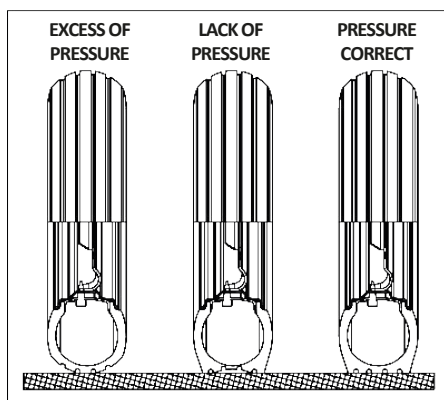
▪ Maintenance

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

• Tires pressure

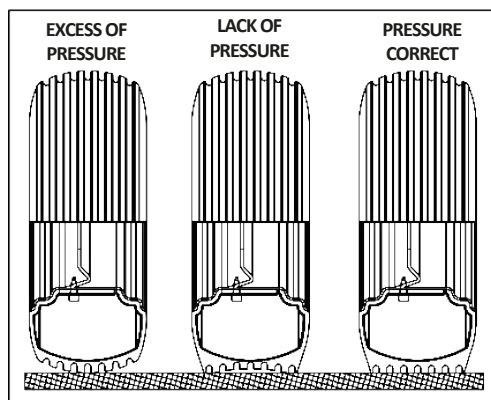
The tires should always be properly calibrated avoiding early wear due to excess or lack of pressure.

STANDARD: TIRES 750 X 16 PLY



USE: 60 LBS/POL²

OPTIONAL: TIRES 11 L 15



USE: 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 (armor cage).

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

IMPORTANT

When calibrating tires, do not exceed the recommended calibration.

OBSERVATION

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

▪ Maintenance

DCFr/DCFc has been developed to provide you with the maximum yield on land conditions. Experience has shown that periodic maintenance of certain parts of DCFr/DCFc 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 **DCFr/DCFc** 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.

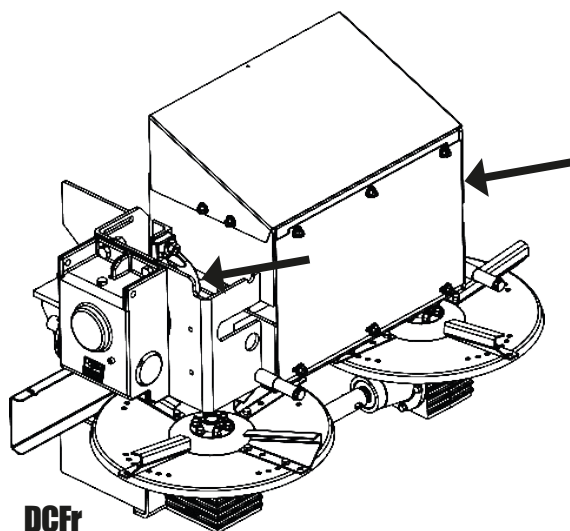
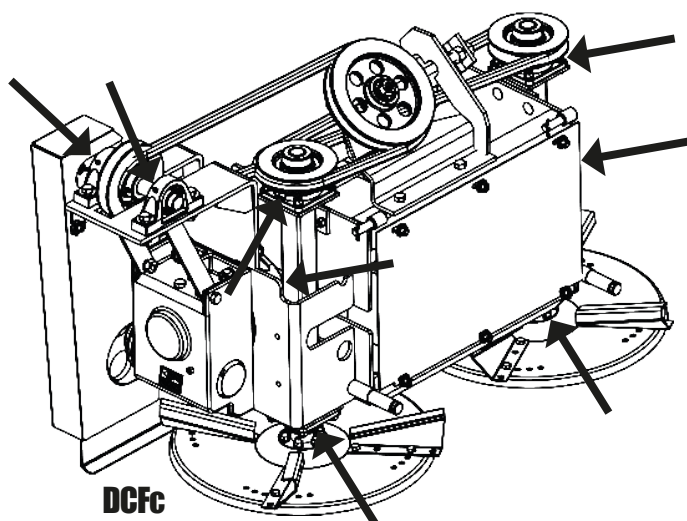
• Table of greases and equivalents

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

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

▪ Maintenance

- Lubrication every 5 hours of work



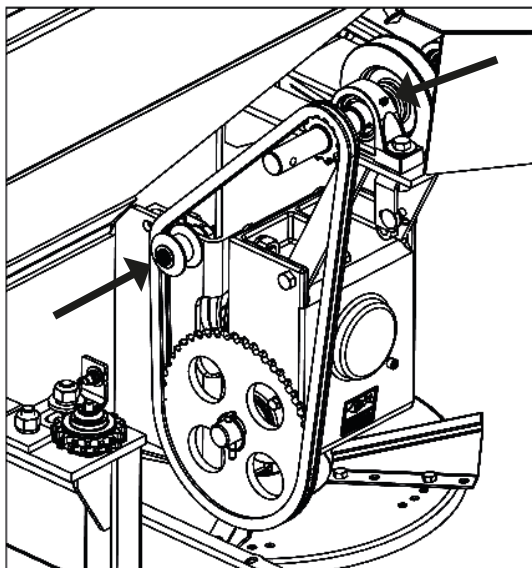
ATTENTION

When lubricating DCFr/DCFc, do not exceed the amount of new grease. Put an adequate amount.

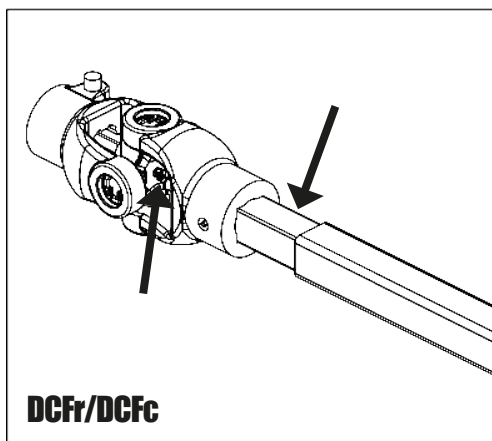
▪ Maintenance

- Lubrication every 8 hours of work

DCFc



DCFr/DCFc

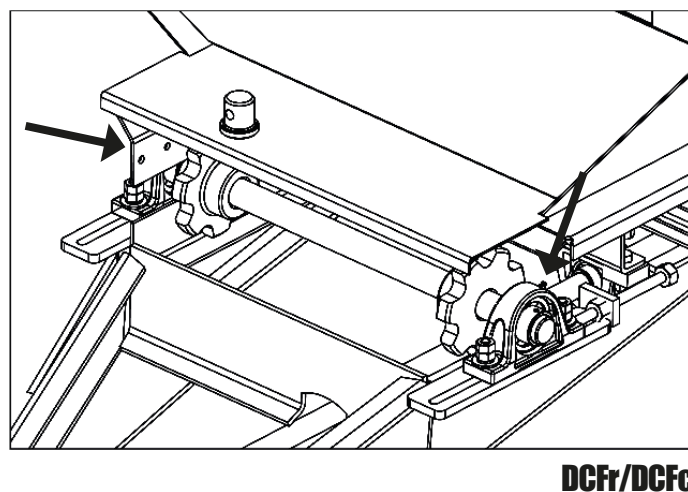
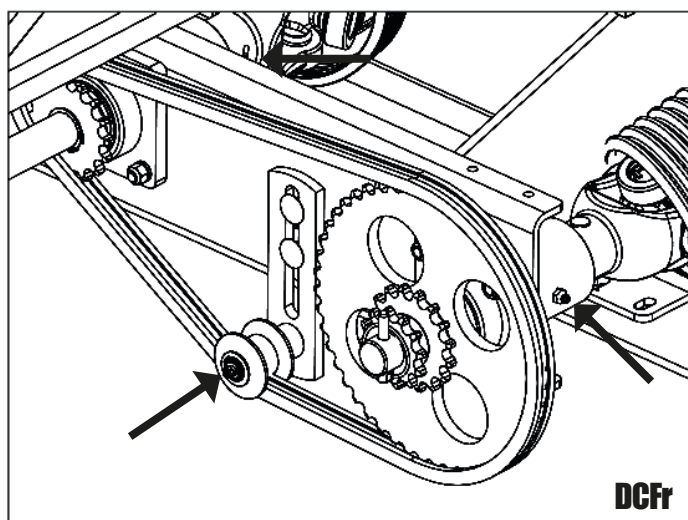


ATTENTION

When lubricating DCFr/DCFc, do not exceed the amount of new grease. Put an adequate amount.

▪ Maintenance

- Lubrication every 8 hours of work

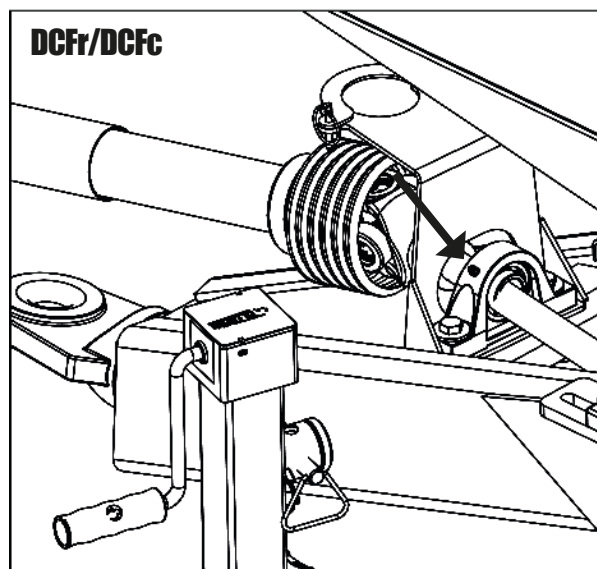
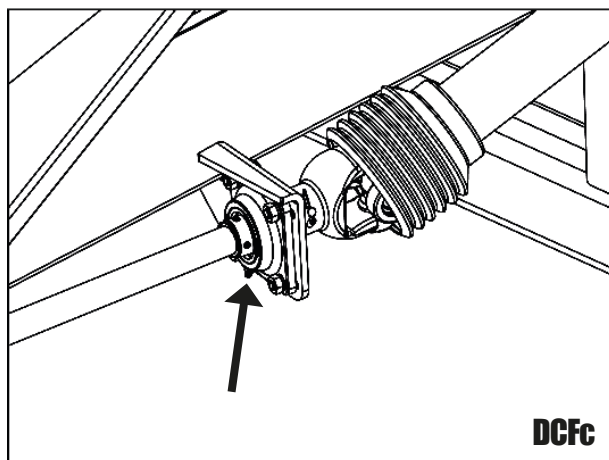


ATTENTION

When lubricating DCFr/DCFc, do not exceed the amount of new grease. Put an adequate amount.

▪ Maintenance

- Lubrication every 8 hours of work

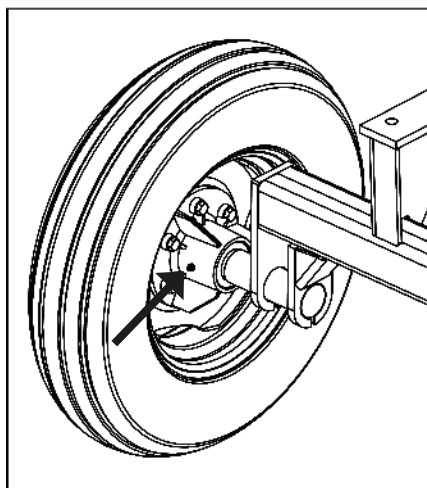
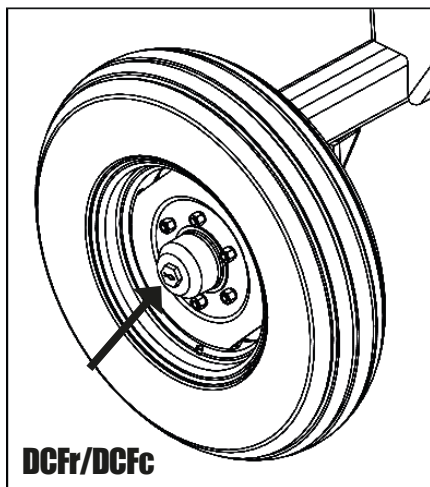


ATTENTION

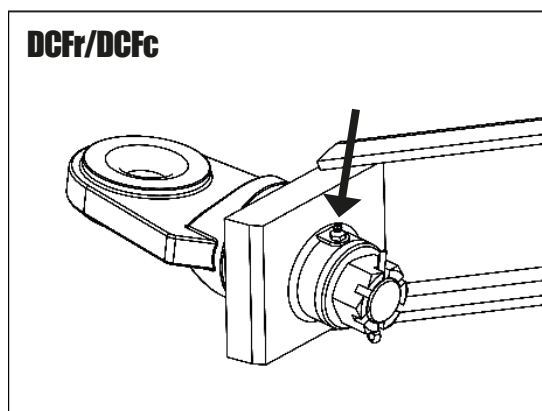
When lubricating DCFr/DCFc, do not exceed the amount of new grease. Put an adequate amount.

▪ Maintenance

- Lubrication every 24 hours of work



- Lubrication every 30 hours of work

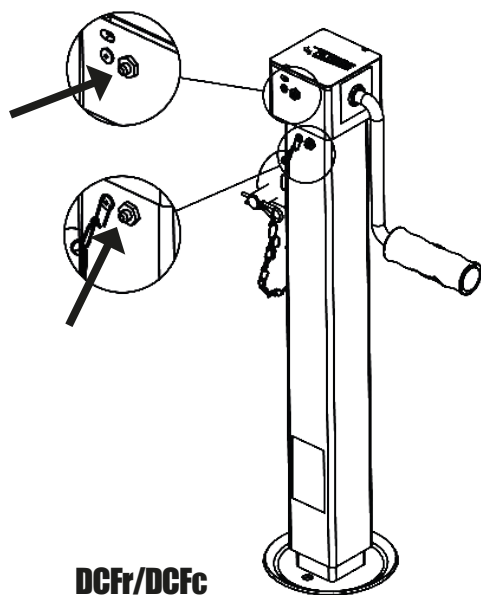


ATTENTION

When lubricating DCFr/DCFc, do not exceed the amount of new grease. Put an adequate amount.

▪ Maintenance

- Lubrication every 60 hours of work



ATTENTION

When lubricating DCFr/DCFc, do not exceed the amount of new grease. Put an adequate amount.

▪ Maintenance

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



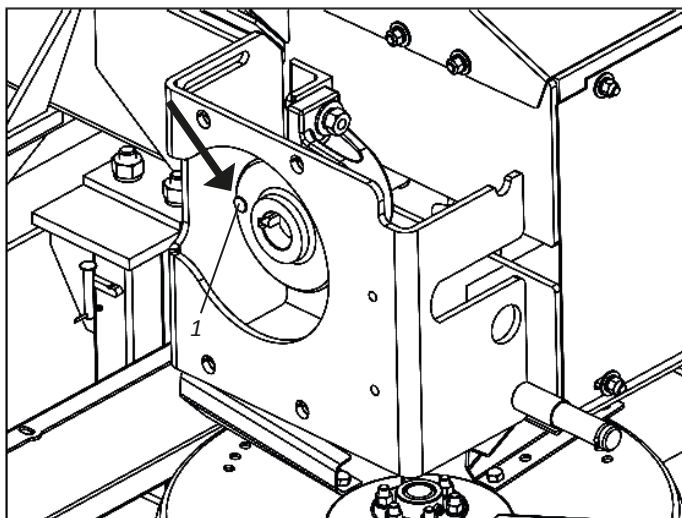
ATTENTION

Check nuts and bolts if necessary, retighten them. The maintenance of general re-installation of the equipment must be performed every 8 hours of work

• Safety Fuse

The gearbox safety fuse (1) unit is intended to prevent damage to the transmission system caused by stresses greater than the dimensioning. If the safety fuse (1) starts to break frequently, check:

- 01** - Check if there are no Foreign objects locking the conveyor.
- 02** - If the product is not too compacted on the conveyor, which may occur with dry powder products.
- 03** - Adjusting the belt tensioner, one side may be tighter than the other.



ATTENTION

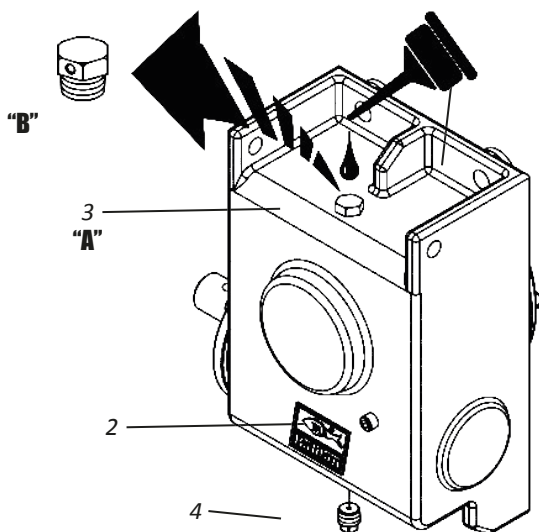
Only use factory original fuses, since they are the only ones which have controlled hardness. Do not use two or more fuses, this will increase the resistance and damage the system.

■ Maintenance

• Reduction Gearbox Oil Replacement

Periodically check the oil level of the reduction gearbox (1) through the screw indicating the level (2) and refill it whenever required. To perform the reduction gearbox oil change (1), proceed as follows:

- 01** - Take the drainage plug (4), the breather cap (3) and the level indicator screw (2) off letting all the oil from the reduction gearbox (1) drain out.
- 02** - Then, reinstall the drainage plug (4) and fill with the breather cap (3) to the oil leak out by the breath level (2).
- 03** - Finish by replacing the level indicator screw (2) and the breather plug (3).



⚠ ATTENTION Do not fill with oil above the level. Only use the specified oil: 85W140 API GL-5 MIL- L-2105D SAEJ306; May/81.

❗ IMPORTANT Before putting the DCFr/DCFc into operation, remove the ("A") cap from the reduction gearbox and place the ("B") breather plug in its place.

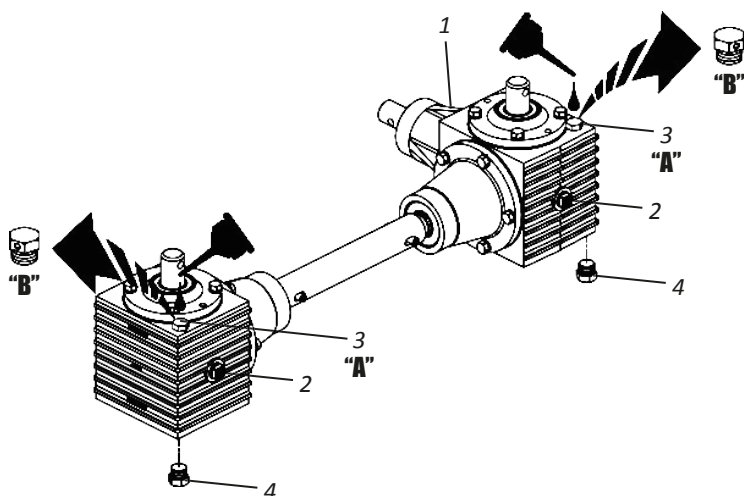
🔍 OBSERVATION Replace the oil in the first 200 hours of operation. Next, change at every 1000 hours of operation. When using a specific oil brand, avoid completing the oil level with brand and specification.

▪ Maintenance

• Transmission Gearbox Oil Replacement

Periodically check the oil level of the transmission gearbox (1) through the screw indicating the level (2) and refill it whenever required. To perform the transmission gearbox oil change (1), proceed as follows:

- 01** - Take the drainage plug (4), the breather cap (3) and the level indicator screw (2) off letting all the oil from the transmission gearbox (1) drain out.
- 02** - Then, reinstall the drainage plug (4) and fill with the breather cap (3) to the oil leak through the level vent (2).
- 03** - Finish by replacing the level indicator screw (2) and the breather cap (3).



ATTENTION

Do not fill with oil above the level. Only use the specified oil: 85W140 API GL-5 MIL- L-2105D SAEJ306; May/81.



IMPORTANT

Before starting the DCFr, remove the caps ("A") from the gearboxes and put the breather plugs ("B") in their place.



OBSERVATION

Replace the oil in the first 200 hours of operation. Next, change at every 1000 hours of operation. When using a specific oil brand, avoid completing the oil level with brand and specification.

▪ Maintenance

• Operational Maintenance

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
There is no product flow on the discs or the amount is not enough.	The shut-off gate may be closed.	Check and take them out in it is the case.
	Foreign objects locking the conveyor.	Assemble the cardan correctly or replace the universal joint crosses with excessive wear.
	Conveyor, roller chain or broken fuse.	Retighten the bearings or replace them if they are damaged.
	WRONG ASSEMBLY of the gears.	Tension the conveyor belt.
Distribution of the product in the soil is not uniform.	Distance between one stroke and the other is too far.	Reduce the distance between the strokes and operate according to the recommended distance.
	Vanes wrong Position in the power distribution disks	Check the position of the vanes if they are not inverted according to the rotating direction of the distributor discs. If they are inverted, proceed with their correct assembly.
	Rotating the power outlet.	Correct rotation in the PTO, which should be 540 RPM.
	Very strong wind.	Wait until the wind reduces or use the buffer (optional).
Distribution range too narrow.	Vanes Position in the power distribution disks	Adjust the vanes on the discs for a more open position.
Recommended dosage is not obtained.	Dosage System. Work Speed above Recommended	Increase gate flow. Reduce work speed.
Dosage higher than recommended.	Dosage System. Work Speed under Recommended	Reduce gate flow. Adjust work speed to the recommended one.
Breaking the fuse frequently.	Conveyor operating at overspeed. Foreign objects locking the conveyor.	Reduce the belt speed and increase the gate flow. Check and proceed to clean the conveyor.

▪ Maintenance

• Operational Maintenance

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Vibration or excessive noises during operation.	Foreign objects inside the DCFr/DCFc.	Check and take them out in it is the case.
	Wrong cardan assembly or worn out Universal Joint Cross	Assemble the cardan correctly or replace the universal joint crosses with excessive wear.
	Loosen or damaged bearings.	Retighten the bearings or replace them if they are damaged.
	Conveyor adjustment.	Tension the conveyor belt.
	PTO Rotation	Keep rotation in 540 rpm.
Breaking the fuse frequently.	Conveyor operating at overspeed. Foreign objects locking the conveyor.	Reduce the belt speed and increase the gate flow. Check and proceed to clean the conveyor.

▪ Maintenance

• Cares

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



IMPORTANT

The proper and periodical maintenance are necessary to guarantee the long life of **DCF_r/DCF_c**.

• General Cleaning

- 01** - When storing **DCF_r/DCF_c**, perform a general cleaning and thoroughly wash with water only. Make sure the paint has not worn out, if this has happened, give a general coat, apply the protective oil and fully lubricate the **DCF_r/DCF_c**. Do not use burned oil or other abrasive.
- 02** - At the end of the work, proceed as follows:
 - Remove roller chains and retain them in oil until the next work
- 03** - Completely lubricate the **DCF_r/DCF_c**. Check all moving parts of **DCF_r/DCF_c**, if they present wears or gaps, make the required adjustment or replace the parts, leaving the machine ready for the next work
- 04** - In the period that you do not use **DCF_r/DCF_c**, clean the products waste which are still remaining after the use such as limestone, fertilizers, dirt, etc.
- 05** - Spray the entire **DCF_r/DCF_c** with castor oil or preservative oil, never use burned oil.

▪ Maintenance

• General Cleaning

- 06** - 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.
- 07** - Clean the cardan every 15 days or sooner if necessary.
- 08** - Remove the protective caps, separate "tongue" from "groove", wash and remove crusts, dry and lubricate the sliding parts with grease and reassemble.
- 09** - After all maintenance precautions, store your **DCFr/DCFc** in a plain surfaced, covered and dried location, away from animals and children.
- 10** - We recommend to wash the **DCFr/DCFc** with water only on the beginning of works.



ATTENTION

Do not use abrasives or chemical products to wash **DCFr/DCFc**, it may damage its painting and adhesives.

• Distributor Preservation - Part I

To extend the service life and appearance of **DCFr/DCFc** longer, follow the instructions below:

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

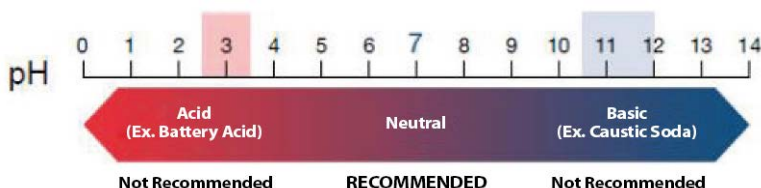
• Distributor Preservation - Part II

The practices and precautions below if adopted by the owner or operator make the difference for the conservation of **DCFr/DCFc**.

- 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 higher than 7) can damage/stain the paint on the distributor
 - **Detergents with acid active ingredient (pH less than 7), act as stripper remover of zinc coating (the protection of parts against oxidation).**



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

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

! IMPORTANT | We recommend the following protective oils:

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

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

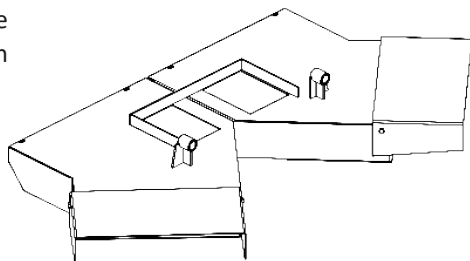
▪ Optional

• Optional Accessories

DCFr/DCFc has optional features which can be acquired according to the work requirement

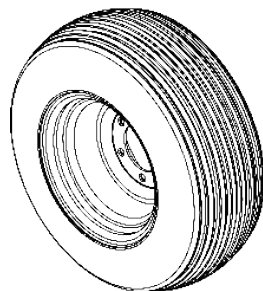
DRIVING GEARBOX

The driver box is used for jobs where the application of the fertilizer should be directed in line, for example under canopies.



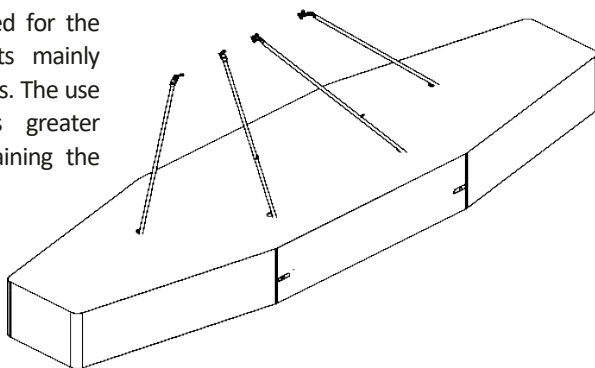
TIRES

For clay soil works, DCFr/DCFc can be optionally acquired with tires 11L-15.



DEFLECTOR WITH CANVAS

The baffle with tarpaulin is used for the distribution of powdered products mainly when there are occurrences of winds. The use of a deflecting device ensures greater uniformity in the distribution, retaining the product.



■ Identification

• Identification plate

To consult the parts catalogue or request Baldan technical assistance, always identify the the o model (1), serial number (2) and manufacture date (3), which can be found on the **DCFr/DCFc** identification plate (4).



ATTENTION

The drawings herein are merely illustrative.

CONTACT

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



PUBLICATIONS

Code: 60550100730 | CPT: DCF12817



▪ 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: _____

This image shows a single page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, leaving small margins at the top and bottom. There are no vertical margin lines, and the page is completely blank except for the lines themselves.



■ Notes

[illegible]

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 repair carried out 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.

▪ Inspection and Delivery Certificate

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

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

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

Implement: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer: _____

Telephone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Telephone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Sale date: _____

Signature / Dealer Stamp _____

1st copy - Owner

▪ Inspection and Delivery Certificate

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

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Dealer: _____

Telephone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Telephone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Sale date: _____

Signature / Dealer Stamp _____

2nd copy - Dealer

▪ Inspection and Delivery Certificate

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

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

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

Implement: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer: _____

Telephone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Telephone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Sale date: _____

Signature / Dealer Stamp _____

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

1.74.05.0059-5

AC MATÃO
ECT/DR/SP

RESPONSE CARD

NO STAMPING IS REQUIRED

THE STAMP WILL BE PAID BY:



BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

Av. Baldan, 1500 | Nova Matão | CEP: 15993-900 | Matão-SP | Brazil

Telephone: (16) 3221-6500 | Fax: (16) 3382-6500

www.baldan.com.br | email: sac@baldan.com.br

Export: Phone: +55 (16) 3221-6500 | Fax: +55 (16) 3382-4212 | 3382-2480

email: export@baldan.com.br



Escaneie o Código QR
na plaqueta de
identificação do seu
equipamento e
acesse online este
Manual de Instruções.



Baldan

Baldan Implementos Agrícolas S/A.

Avenida Baldan, 1500 | Nova Matão

CEP: 15993-900 | Matão/SP. | Brasil

Tel.: +55 (16) 3221-6500 | Fax: (16) 3382-6500

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sac@baldan.com.br | export@baldan.com.br