

# ***Instruction Manual***



**GTG-RO FLEX**  
Agricultural/Citrus Rear Hoist

 **BALDAN**



# INTRODUCTION

**W**e thank you for the preference and congratulate your excellent choice in acquiring an implement of outstanding quality, manufactured in accordance with the advanced technology of **BALDAN IMPLEMENTOS AGRÍCOLAS S/A**.

This manual will assist you, in proceeds necessities, since when you bought until the operational proceeds application, security and maintenance.

The **BALDAN** guarantees that deliver this implement to the dealer, working properly, and in perfect conditions.

The dealers it's under the responsibility to keep the protection and conservation while keep the implement in your stock, and than, to assembly, tighten, lubrication and overhaul.

On time of the technical deliver, the dealer must to have conducted the user customer about the manutentation, safety, and your obligations in a possible technical assistance, the obligation to see the warranty terms and read the instruction manual. Any solicitation of warranty, please contact our Baldan technical service, by your Baldan dealer that you bought our implement. Reaffirm the necessity to read carefully of warranty certificate and note all of items from this manual, therefore you will increase the working life of your equipment.



# ***Instruction Manual***



## **GTG-RO FLEX**

Agricultural/Citrus Rear Hoist

BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

CNPJ: 52.311.347/0009-06

Insc. Est.: 441.016.953.110



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

**> BALDAN**

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## 01 - SAFETY RULES



THE SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT MESSAGE ON THE MESSAGE ON THE ENGINE, WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE POSSIBILITY OF DEATH OR PERSONAL INJURY. FOLLOW THE INSTRUCTIONS IN THE SAFETY MESSAGE.



### WARNING

- Read this instruction manual carefully to know the recommended safety rules.



### WARNING

- Only start the tractor operations, when are you properly accommodated and with the seat belt fasted.



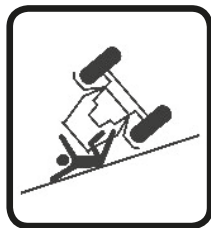
### WARNING

- Never carry people over the tractor or equipment.



### WARNING

- There are risks of serious injury by tipping when working on slopes.
- Never use excessive speed.



## 01 - SAFETY RULES



THE SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT MESSAGE ON THE MESSAGE ON THE ENGINE, WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE POSSIBILITY OF DEATH OR PERSONAL INJURY. FOLLOW THE INSTRUCTIONS IN THE SAFETY MESSAGE.



### WARNING

- Do not work with the tractor if the front bee without enough weight to the rear equipment. There is tendency to lift, add weights at front or front wheels.



### WARNING

- Before any equipment maintenance, make sure that is properly stopped
- Avoid getting hit



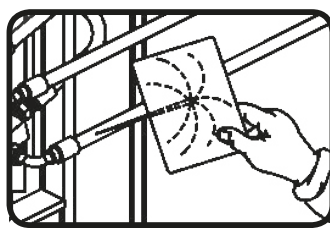
### WARNING

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



### WARNING

- Whenever looking for any possible leakage on the hoses, use a piece of cardboard or wood, and never your hands.
- Avoid letting the fluid come in contact with your skin.





## 01 - 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.**



### **WARNING**

- The hydraulic oil operates pressurized and can cause serious injuries, in case of leakage. Periodically verify the condition of the hoses. If there are any signs of leakage, replace them immediately.
- Before connecting or disconnecting hydraulic hoses, release the pressure from the system, activating the control when the tractor is turned off.



### **WARNING**

- Keep away from the active seeder elements (discs), they are sharp and can cause accidents.
- Whenever performing any work on the discs, wear safety gloves on your hands.



### **WARNING**

- 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!**

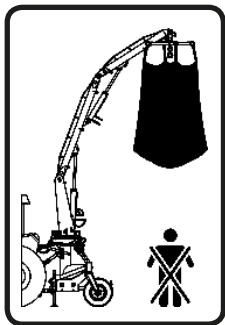


## 01 - SAFETY RULES



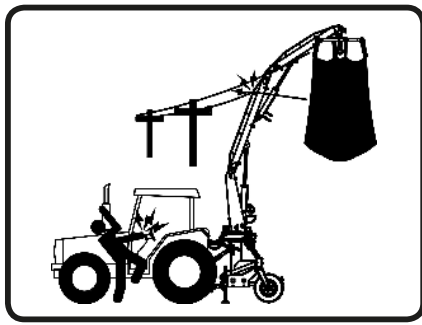
### WARNING

- When operating the hoist, do not allow persons to stay too close or below the lifting point.



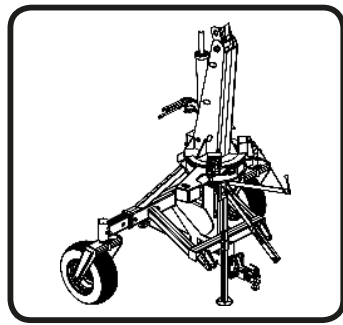
### WARNING

- When operating the rear hoist, keep away from electric power lines, low tree branches and other raised obstructions to avoid serious injuries or even death.



### WARNING

- Before coupling or decoupling the hoist, lower support "A", to keep the hoist duly supported.
- Ignoring this warning may result in serious accidents.



## 01 - SAFETY RULES

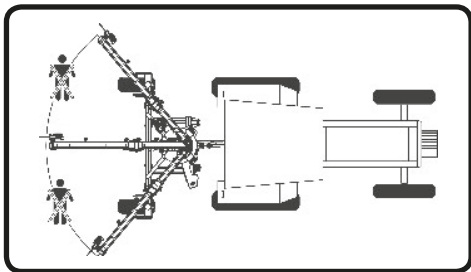


THE SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT MESSAGE ON THE MESSAGE ON THE ENGINE, WHEN YOU SEE THIS SYMBOL, BE ALERT TO THE POSSIBILITY OF DEATH OR PERSONAL INJURY. FOLLOW THE INSTRUCTIONS IN THE SAFETY MESSAGE.



### WARNING

- When operating with the rear hoist, prevent people from staying too close to or over it.
- Check to make sure no one is within the area of reach of the rear hoist arm.



### WARNING

- The hydraulic oil works under pressure and can cause serious injuries in the case of leaks. Periodically check the state of conservation of the hoses. Immediately replace in the case of leaks.
- Before connecting or disconnecting the hydraulic hoses, release the pressure of the system, activating the control with the tractor switched off.



## 01 - 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.**



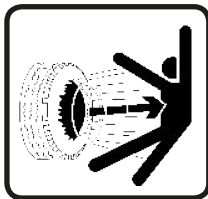
### **WARNING**

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



### **WARNING**

- 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, stand at the side of the tire, never in front of it.
- When filling the tire, always use a containment device (filling cage).



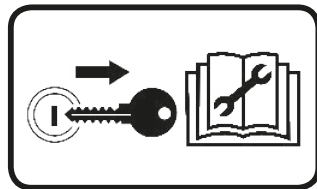
### **WARNING**

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



### **WARNING**








- Remove the ignition key before performing any type of maintenance in GTG-RO Flex. Protect yourself against possible injuries or death caused by GTG-RO Flex unexpected start-up.
- Do not start the tractor up if GTG-RO Flex is not properly engaged.












**WARNING:**



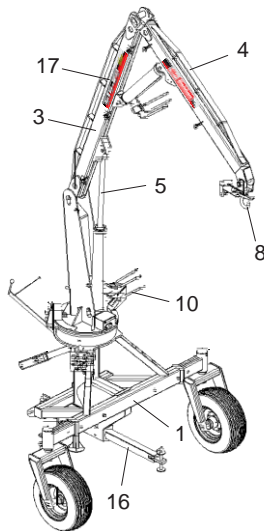
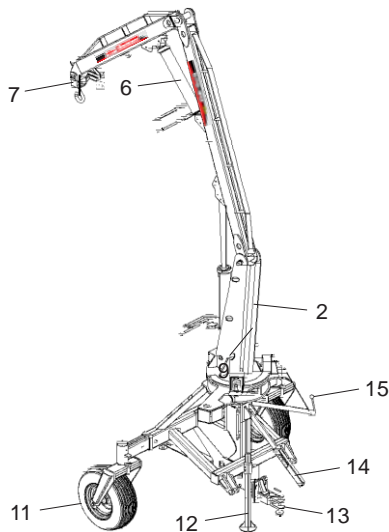
Incorrect use of this equipment may result in serious or even fatal accidents. Before placing the equipment into operation, carefully read the instructions contained in this manual. Ensure that the person responsible for the operation has been instructed on the correct and safe use of the implement, having read and understood the instruction manual of this equipment.

- 1 -  When operating with the rear hoist, prevent people from staying too close to or over it.
- 2 -  Do not use loose clothing as it can get caught on the rear hoist.
- 3 -  When activating the tractor engine, be properly seated on the operator seat and have complete knowledge of the correct and safe handling of the tractor as well as the equipment. Always put the gear stick in neutral position, switch off the power takeoff.
- 4 -  Do not start the engine in a closed setting or without suitable ventilation because the exhaust gases are dangerous to health.
- 5 -  When maneuvering the tractor to couple the rear hoist, check if there is enough space and ensure no one is too close to it. Always maneuver with reduced gear and be prepared to use the emergency brake.
- 6 -  Do not make adjustments with the rear hoist in operation.
- 7 -  Before connecting or disconnecting the hydraulic hoses, release the pressure of the system, activating the control with the tractor switched off.

- 8 -  When working on inclined lands, proceed carefully, always maintaining the necessary stability. In the case of misbalance, reduce the speed and turn the wheels of the tractor towards the slope side of the land.
- 9 -  Always drive the tractor at speeds compatible with safety, especially in works on uneven lands or slopes. Always keep the tractor coupled.
- 10 -  When leaving the tractor, place the gear stick in the neutral position and apply the parking brake.
- 11 -  Do not drive on highways, especially at night. Use warning signs throughout the journey.
- 12 -  Do not drive with the hoist arm raised under any circumstance.
- 13 -  When driving the tractor on roads, keep the brake pedals interconnected and use the safety sign.
- 14 -  Periodically check the state of conservation of the hoses. Immediately replace the hose in the case of leaks because the oil operates at high pressure and can cause serious injuries.
- 15 -  Alcoholic drinks or some drugs may cause loss of reflexes and change the physical conditions of the operator. Therefore, never operate this equipment when under the influence of these substances.
- 16 -  Read or explain all the procedures above to the user that cannot read.

### 02-COMPONENTS

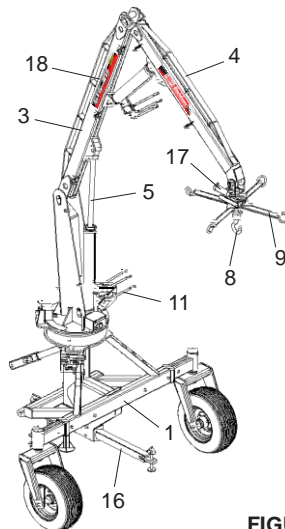
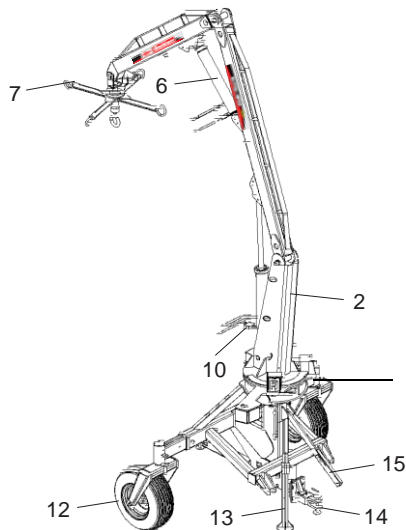
- 01 - Frame
- 02 - Rotary Tower
- 03 - Big Articulation Arm
- 04 - Small Articulation Arm
- 05 - Primary Cylinder
- 06 - Secondary Cylinder
- 07 - Big Bag Coupler (Optional)
- 08 - Hook
- 09 - Return Valve
- 10 - Hydraulic Hoses
- 11 - Tire
- 12 - Support
- 13 - Coupling Shackle
- 14 - Adjustment Bar
- 15 - Trip Lever
- 16 - Drawbar
- 17 - Adhesive



FIGURES1

## 02-COMPONENTS

- 01 - Frame
- 02 - Rotary Tower
- 03 - Big Articulation Arm
- 04 - Small Articulation Arm
- 05 - Primary Cylinder
- 06 - Secondary Cylinder
- 07 - Big Bag Coupler (Optional)
- 08 - Hook
- 09 - X Support
- 10 - Return Valve
- 11 - Hydraulic Hoses
- 12 - Tire
- 13 - Support
- 14 - Coupling Shackle
- 15 - Adjustment Bar
- 16 - Drawbar
- 17 - Hydraulic Cylinder
- 18 - Adhesive



FIGURES 2



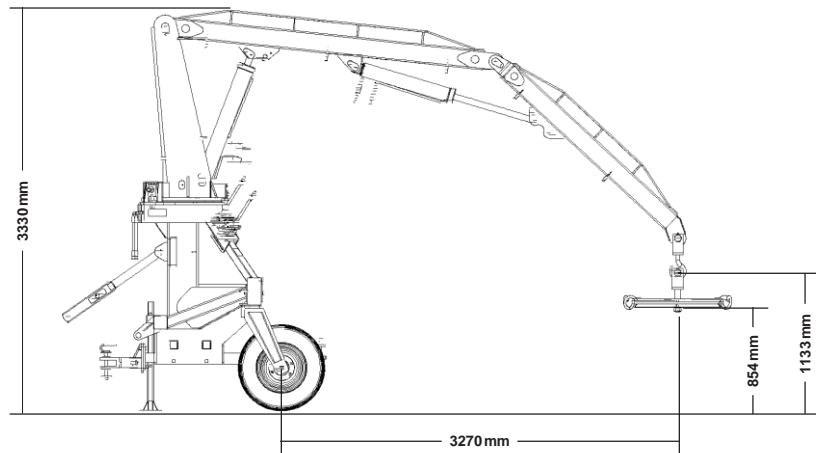
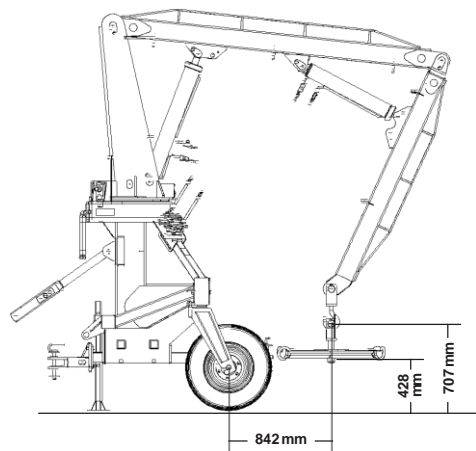
### 03-TECHNICAL SPECIFICATIONS

TABLE 1

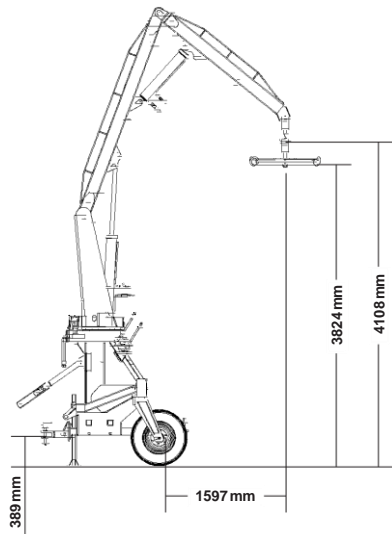
<i>Model</i>	<i>Lifting Height (mm)</i>	<i>Closed Secondary Cylinder Load Capacity (kg)</i>	<i>Open Secondary Cylinder Load Capacity (kg)</i>	<i>Total Width (mm)</i>	<i>Tower height (mm)</i>	<i>Tires</i>	<i>Rotation angle</i>	<i>Approximate Weight (kg)</i>	<i>Approximate Tractor Power (hp)</i>
<b>GTG-RO Flex</b>	<b>6570</b>	<b>2000</b>	<b>800</b>	<b>2808</b>	<b>3330</b>	<b>11L - 15</b>	<b>100°</b>	<b>1000</b>	<b>70</b>

Baldan reserves the right to change the technical features of this product without prior warning. The technical specifications are approximate and informed in the normal working conditions.

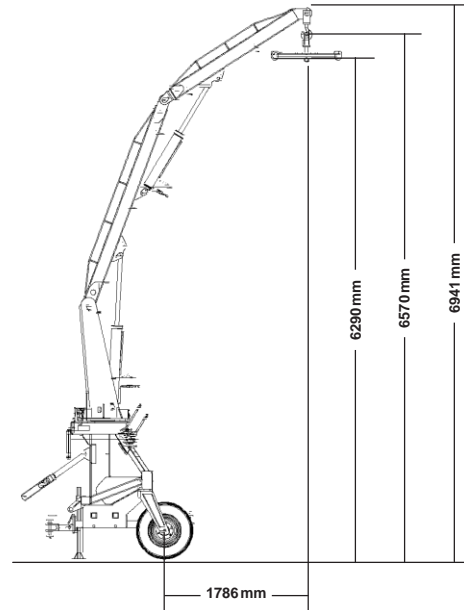
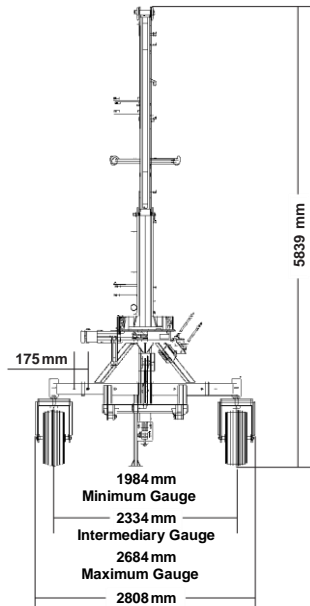
## MEASUREMENTS - GTG-RO Flex "MECHANICAL TRIP SYSTEM" (FIGURES 3)



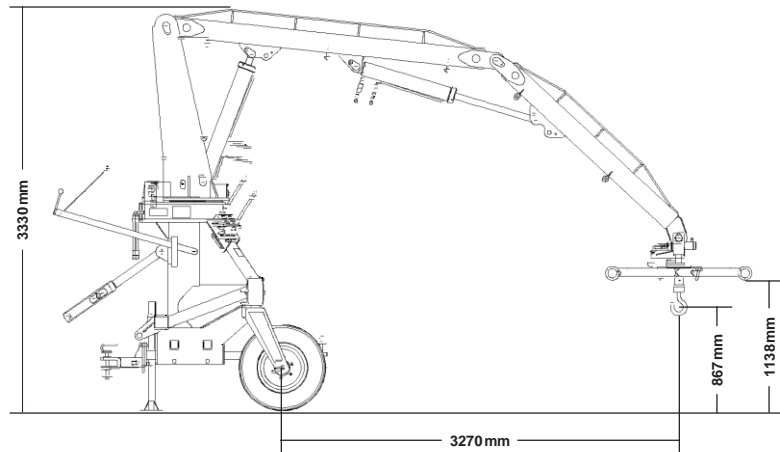
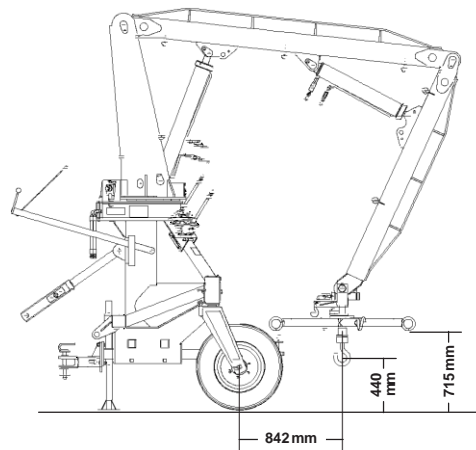
FIGURES3



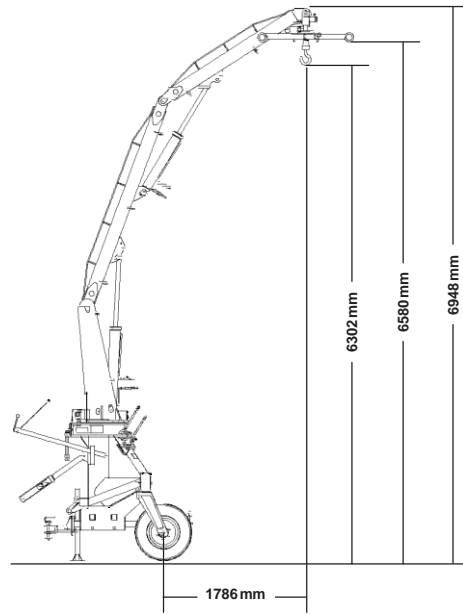
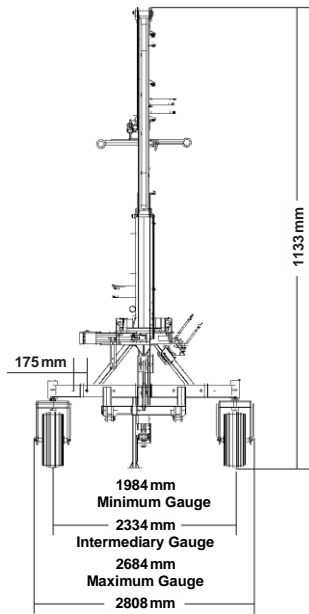
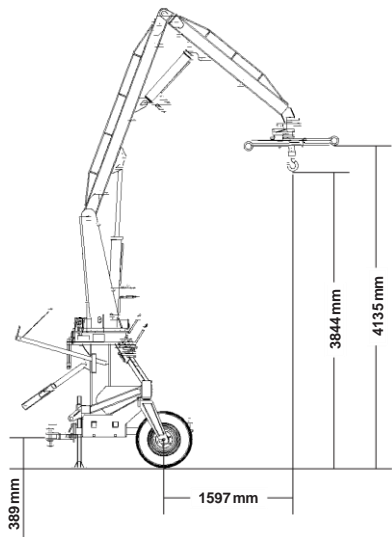
FIGURES3



MEASUREMENTS - GTG-RO Flex "HYDRAULIC TRIP SYSTEM" (FIGURES 4)



FIGURES 4



FIGURES 4

## 04 - MOUNTING

- To facilitate loading and transport, the rear hoist **GTG-RO Flex** leaves the factory only with the tower (1) mounted, requiring mounting of the other parts afterwards. See below how to proceed with the mountings.

### MOUNTING OF BIG ARM - GTG-RO Flex (FIGURE 5)

- To cut the big arm, proceed as follows:
  - First, couple the big arm (2) to the tower (1), securing it with the pin (3), flat washer (4) and nut (5).
- Then put the hydraulic cylinder (6) on the tower (1), securing with the pin (7) and locking with the pressure washer (8) and nut (9).
- Then put the hydraulic cylinder (6) on the big arm (2), securing with the pin (10) and locking with the pressure washer (11) and nut (12).

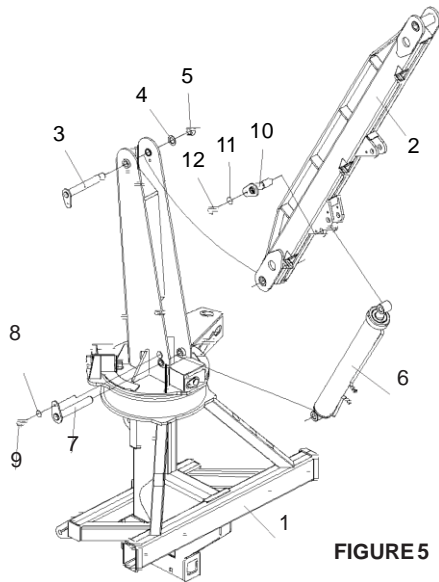


FIGURE 5



### NOTE

Before mounting, seek an ideal location that facilitates the identification of the components and mounting of the rear hoist.

## MOUNTING OF SMALL ARM - GTG-RO Flex (FIGURE 6)

- To mount the small arm, proceed as follows:
- Couple the small arm (2) to the tower (1), securing it with the pin (3), flat washer (4) and nut (5).
- Then put the hydraulic cylinder (6) on the big arm (2), securing with the 8 pin (7) and locking with the pressure washer (8) and nut (9).
- After, put the hydraulic cylinder (6) on the small arm (1), securing with the pin (10) and locking with the pressure washer (11) and nut (12).

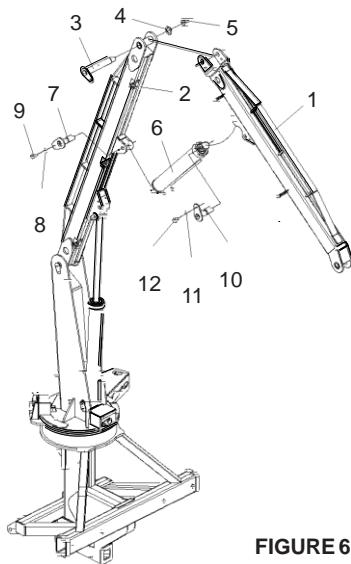
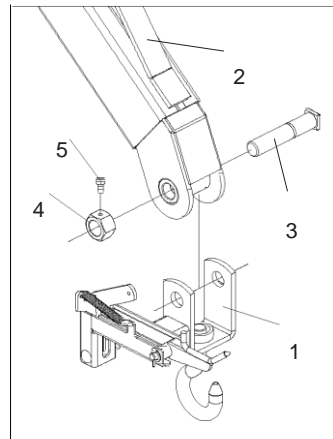
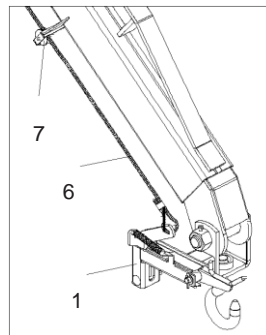


FIGURE 6

## MOUNTING OF MECHANICAL TRIP - GTG-RO Flex (FIGURE 7)

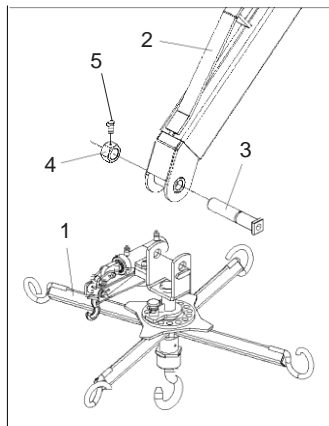
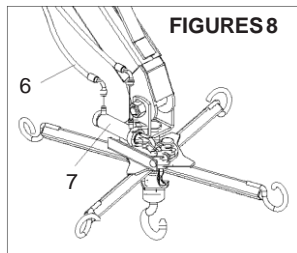
- To mount the mechanical trip, proceed as follows:
- Put the mechanical trip (1) on the small tower (2) and secure with the pin (3), nut (4) and lock with the bolt (5).
- Then fix the cable (6) to the mechanical trip (1) and pass through the pulleys (7).

FIGURES 7



## MOUNTING OF HYDRAULIC TRIP - GTG-RO Flex (FIGURES 8)

- To mount the hydraulic trip, proceed as follows:
- Put the hydraulic trip (1) on the small tower (2) and secure with the pin (3), nut (4) and lock with the bolt (5).
- Then attach the hydraulic hoses (6) to the hydraulic cylinder (7) and the hydraulic system of the tractor.



**WARNING**

The tractor must have dual control in order to mount the hydraulic trip.

## MOUNTING OF WHEEL SUPPORT GTG-RO Flex (FIGURE 9)

- To mount the wheel support, proceed as follows:
- Couple the wheel support (1) to the tower (20) and secure with the bushing (3), bolt (4), pressure washer (5) and nut (6).

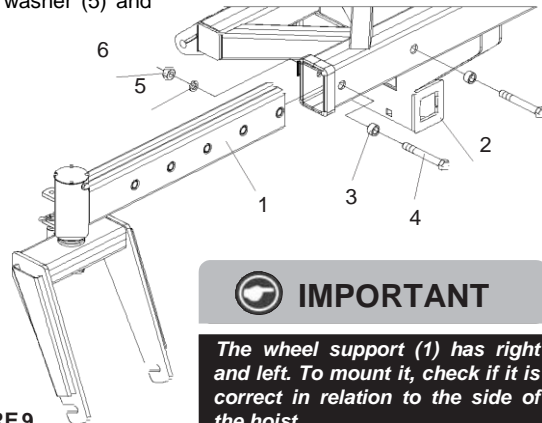


FIGURE 9



**IMPORTANT**

*The wheel support (1) has right and left. To mount it, check if it is correct in relation to the side of the hoist*



## MOUNTING OF TIRES - GTG-RO Flex (FIGURE 10)

- To mount the tire support, proceed as follows:
- Couple the tire (1) to the wheel hub (2) through the bolts (3) and nuts (4).
- Then mount the wheel hub (2) to the wheel support (5), securing with the plates (6) and nuts (7).

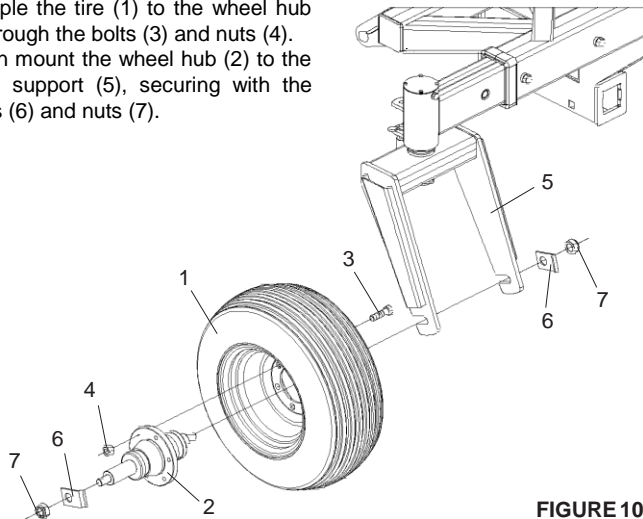


FIGURE 10

## MOUNTING OF SUPPORT GTG-RO Flex (FIGURE 11)

- To mount the support, proceed as follows:
- Couple the support (1) to the tower (2), securing it with the pin (3) and lock (4).

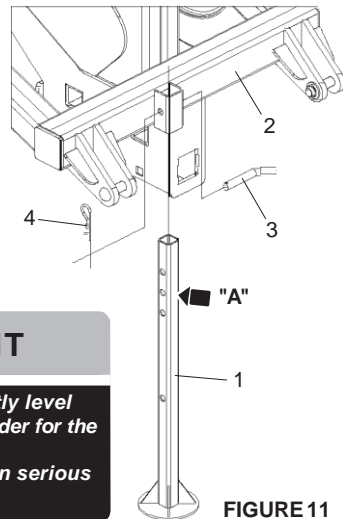


FIGURE 11

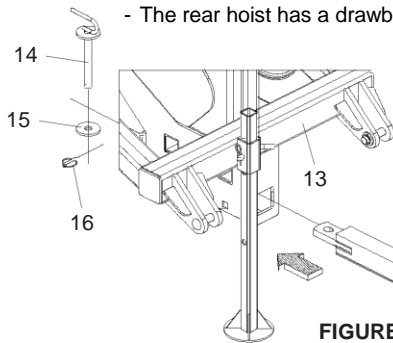


### IMPORTANT

*To couple the support (1), correctly level the hoist through the holes (A) in order for the hoist to be inclined. Ignoring this warning can result in serious accidents.*

## MOUNTING OF DRAWBAR AND COUPLING SHACKLE - GTG-RO Flex ( FIGURE 12 )

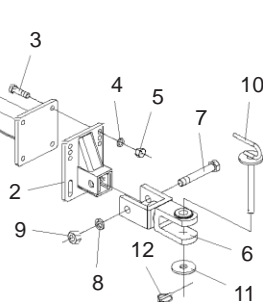
- The rear hoist has a drawbar (1) that executes the transport of the trucks without having to decouple it from the tractor.



**FIGURE 12**

- After, put the shackle (6), pin (10), flat washer (11) and lock (12).
- Lastly, insert the drawbar (1) in the tower (13) and put the pin (14), flat washer (15) and lock (16).

- To mount the drawbar (1) and coupling shackle (6), proceed as follows:
- First, couple the drawbar (1) to the adjustment plate of the header (2), securing it with the bolts (3), pressure washers (4) and nuts (5).
- Then, couple the shackle (6) to the adjustment plate of the header (2) with the bolt (7), pressure washer (8) and nut (9).



### IMPORTANT

*Mount the drawbar (1) only when transporting the rear hoist with the coupled truck. Do not mount the drawbar (1) when working with the rear hoist without the coupled truck.*



### WARNING

*When the rear hoist is with the drawbar (1) mounted, do not activate the tractor hydraulic. Ignoring this warning may result in serious accidents and damages to the equipment.*

## MOUNTING OF HYDRAULIC CONTROL - GTG-RO Flex (FIGURES 13)

- To mount the hydraulic control, proceed as follows:
- Put the plate (1) on the tower (2), securing it through the oblong holes through bolts (3), flat washers (4), pressure washers (5) and nuts (6).
- Then put the hydraulic command (7) on the plate (1), securing it with the bolts (8), flat washers (9), pressure washers (10) and nuts (11).

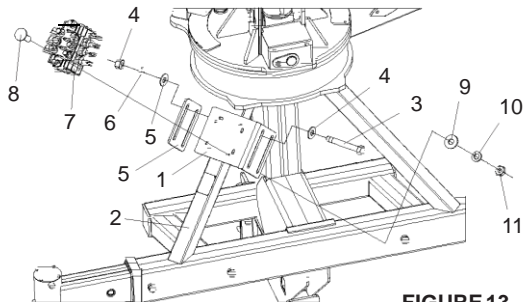
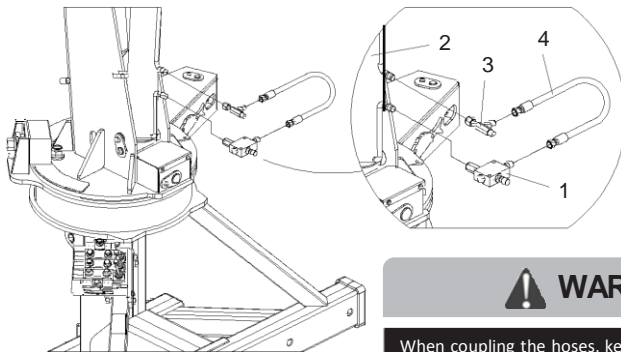


FIGURE 13

## MOUNTING OF SAFETY VALVES - GTG-RO Flex (FIGURES 14)

- After mounting the hydraulic command, mount the safety valves as follows:
- Couple the safety valve (1) to the nipple of the raised piston support (2).
- Then couple the "T" nipple (3) to the nipple of the raised piston rod (2).
- Finish by coupling the hose (4) to the outlet of the safety valve (1) and to the outlet of the "T" nipple (3) and tighten.



FIGURES 14

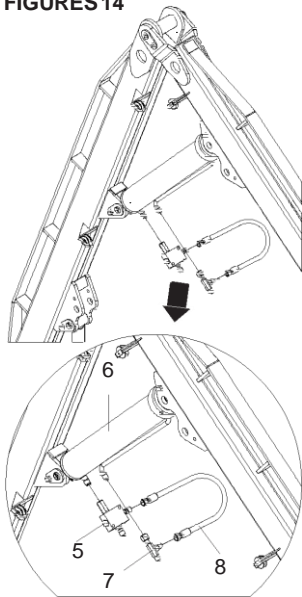


**WARNING**

When coupling the hoses, keep terminals from touching the ground to prevent contamination.



**FIGURES 14**



- After, mount the safety valve (5) to the piston (6) proceeding as follows:

- Couple the safety valve (5) to the nipple of the piston support (6).
- Then couple the "T" nipple (7) to the nipple of the opening piston rod (6).
- Finish coupling the hose (8) to the outlet of the safety valve (5) and outlet of the "T" nipple (7) and tighten.



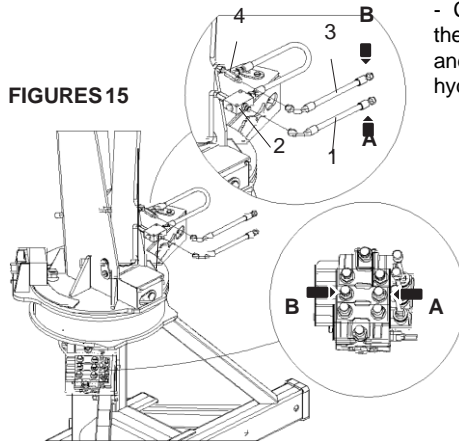
**WARNING**

*When coupling hoses, keep terminals from touching the ground to prevent contamination*

**MOUNTING OF HYDRAULIC HOSES – GTG-RO Flex (FIGURES 15)**

- After mounting the safety valves, mount the hydraulic hoses. This mounting was divided into parts to facilitate mounting. To mount them, proceed as follows:

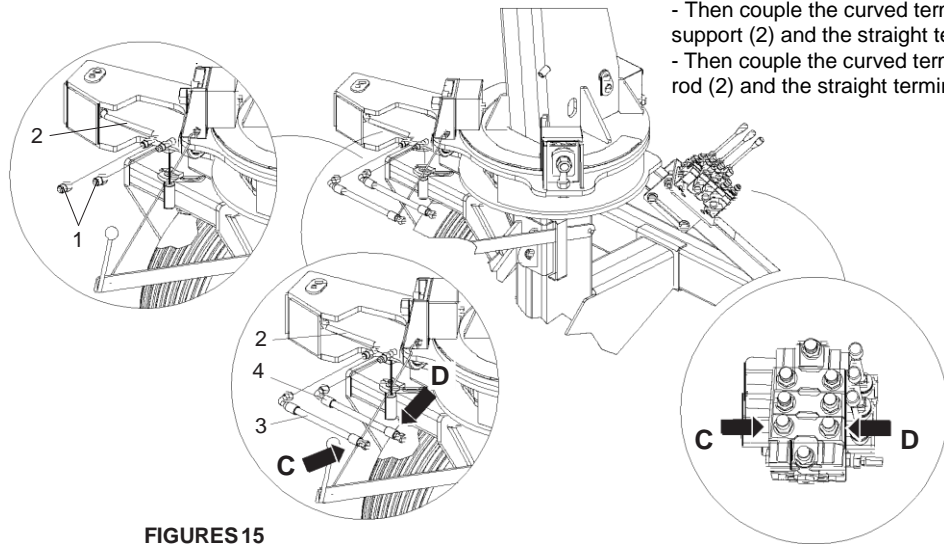
**FIGURES 15**



- Couple the curved terminal of the hose (1) to the safety valve (2) and the straight terminal to the hydraulic command point (A).

- Then couple the curved terminal of the hose (3) to the "T" nipple (4) and the o straight terminal to the hydraulic command point (B).

- Then mount the hydraulic hoses to the rotary piston of the rear hoist. To mount them, proceed as follows:
- First, couple the reduction nipples (1) to the nipple of the support and the rod of the rotary piston (2).



FIGURES 15

- Then couple the curved terminal of the hose (3) to the nipple of the rotary piston support (2) and the straight terminal to the hydraulic command point (C).
- Then couple the curved terminal of the hose (4) to the nipple of the rotary piston rod (2) and the straight terminal to the hydraulic command point (D).



## IMPORTANT

*Do not work with the rear hoist without putting the reduction nipples (1) on the rotary piston (2). Ignoring this warning may result in serious accidents.*

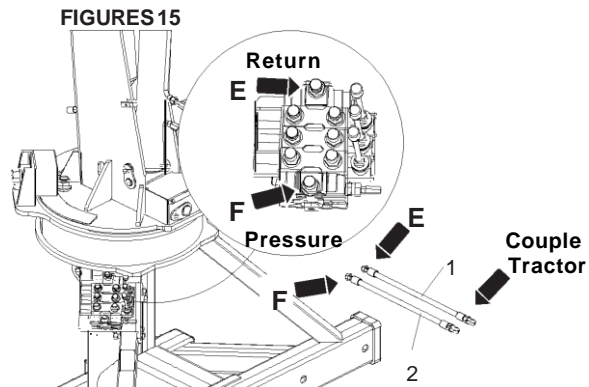


## WARNING

*When coupling hoses, keep terminals from touching the ground to prevent contamination.*

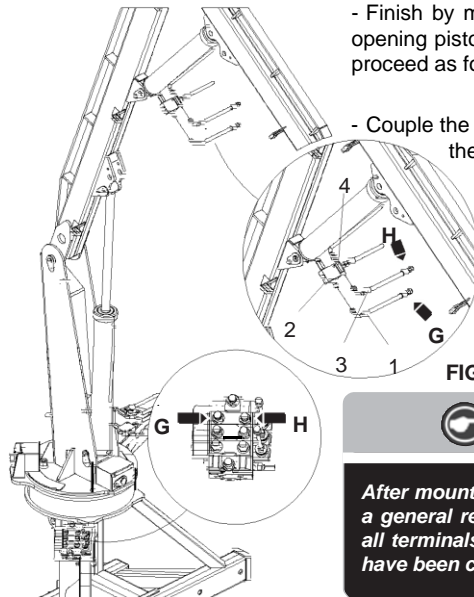


- Next, mount the hydraulic hoses on the tractor. To mount them, proceed as follows:
- Couple the straight hose terminal (1) to the hydraulic command point (E) and the quick coupling terminal to the tractor.
- Then couple the straight hose terminal (2) to the hydraulic command point (F) and the quick coupling terminal to the tractor.



- Finish by mounting the hydraulic hoses to the opening piston of the rear hoist. To mount them, proceed as follows:

- Couple the curved terminal of the hose (1) to the safety valve (2) and the straight terminal to the hydraulic command point (G).
- Then couple the curved terminal of the hose (3) to the "T" nipple (4) and the straight terminal to the hydraulic command point (H).



## IMPORTANT

*After mounting the hydraulic hoses, carry out a general revision to check the tightening of all terminals of the hoses and to see if these have been correctly installed.*

## 05 - COUPLING TO TRACTOR

- Before coupling the rear hoist to the tractor, check if the tractor is prepared for work by observing the following item:

1 - Check if the tractor is equipped with set of weights at the front or on the front or back wheels, which will give the tractor more stability and traction on the ground.

2 - Adjust the eyelet of the lower arms of the tractor.

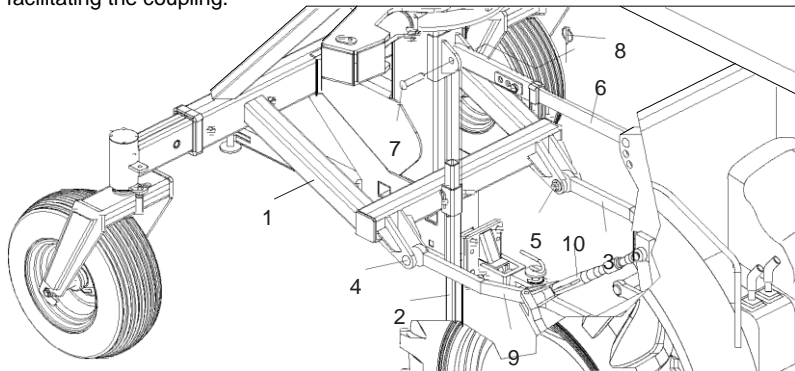
- The rear hoist (1) is equipped with a support (2) that ensures greater facility and safety during coupling and decoupling from the tractor. To couple the rear hoist, proceed as follows:

- Gradually move the tractor close to the hoist on reverse gear, paying attention to the application of the brakes. Use the hydraulic position control lever when moving close to the rear hoist, leaving the left lower arm (3) at the level of the hoist coupler.

- Put the pin (4) on the rear hoist coupler and lock (5).

- Couple the third point spreader (6) to the header with the pin (7) and insert the lock (8).

- Finally, couple the lower right arm (9) that has up and down movements using the leveling crank (10). At that moment, the extending thread of the third point of the upper arm of the tractor can be used to bring the hoist close or withdraw it, facilitating the coupling.



FIGURES 16



**WARNING**

*Before coupling or decoupling the rear hoist, lower the support to keep the hoist duly supported. The lack of attention in this operation may result in serious accidents.*



- After coupling the rear hoist (1), couple the drawbar shackle (11) of the tractor as follows:
- Couple the shackle (11) to the tractor, securing it with the pin (12), flat washer (13) and lock (14).



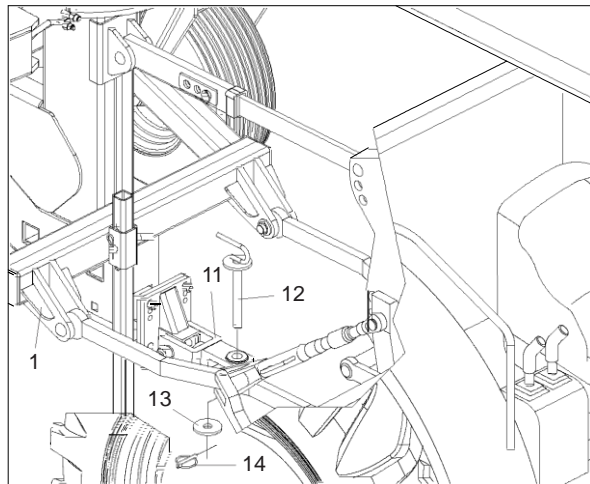
## WARNING

*When the rear hoist is mounted with the drawbar, do not operate it without first coupling the shackle to the tractor. Ignoring this warning may result in serious accidents.*



## NOTE

*Before coupling the rear hoist, look for a safe place of easy access. Always use reduced gear with low acceleration.*



FIGURES 16



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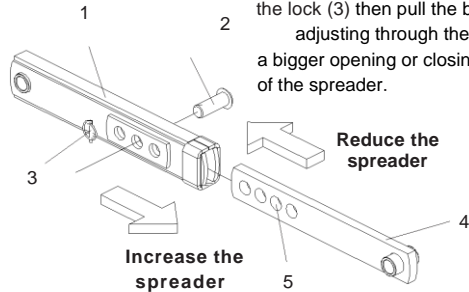


- The rear hoist leaves the factory with a third point spreader (1). This spreader is to substitute the third point of the tractor. This change is necessary because the spreader has a greater resistance in relation to the spreader of the tractor, avoiding greater damages.

- The third point spreader (1) has an open and close adjustment that makes it easier and faster when coupling the hoist to the tractor. To make this adjustment, proceed as follows:

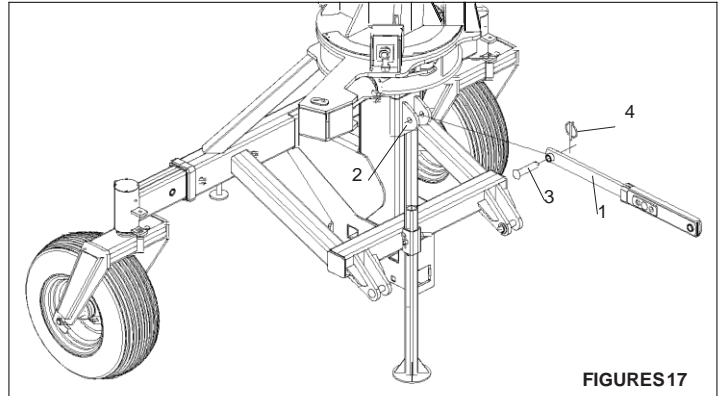
- Loosen the pin (2) by removing

the lock (3) then pull the bar (4), adjusting through the holes (5), a bigger opening or closing of the spreader.



FIGURES17

- To substitute the third point spreader of the tractor, proceed as follows:
- First remove the third point spreader of the tractor.
- Then secure attach the third point spreader (1) to the coupler (2) through the pin (3) and lock (4).
- After, repeat the same procedure to couple the spreader to the tractor.



FIGURES17

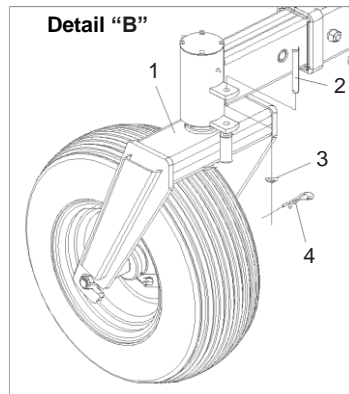
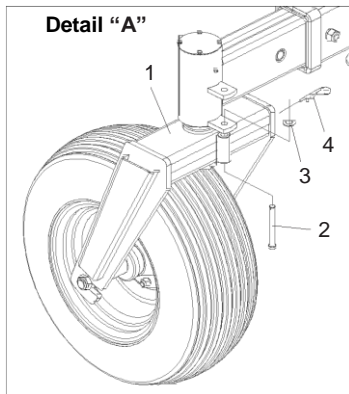
## 06 - WORK / TRANSPORT

### PREPARATION FOR WORK - GTG-RO Flex (FIGURES 18)

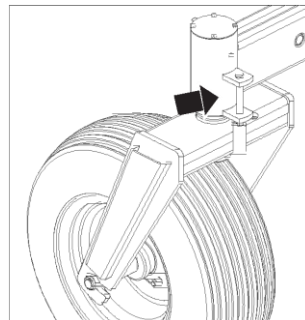
- Before working with the rear hoist, proceed as follows:

1 - Unlock the oscillating wheels (1) by removing the pin (2), flat washer (3) and lock (4), as shown in **detail "A"**.

2 - Then secure the pin (2), flat washer (3) and lock (4) to the top coupler as shown in **detail "B"**.



**FOR "UNLOCKED  
WHEEL" WORK**



FIGURES 18



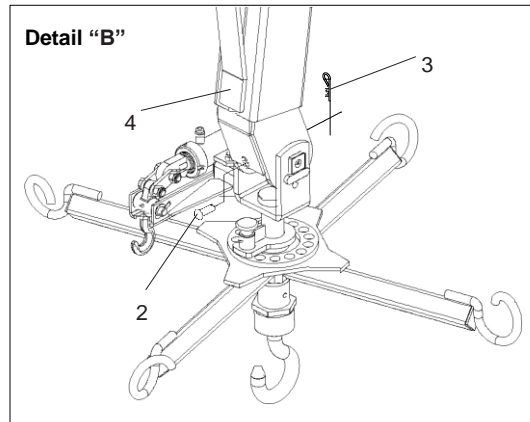
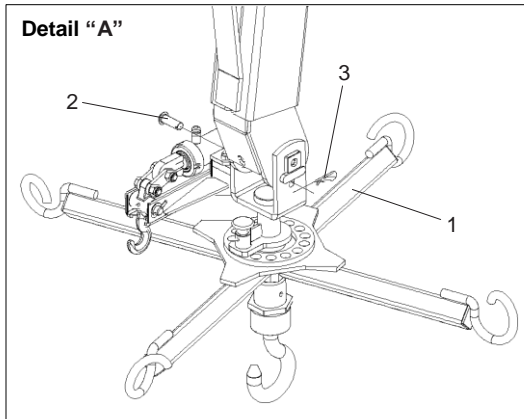
**WARNING**

*Do not work with locked wheels because in the case of an obstacle or any soil irregularity in their path the wheels will freely rotate to roll over it.*

3 - Lastly, before working, unlock the big bag (1) to avoid tipping the load over. To unlock the big bag (1), proceed as follows:

- First, unlock the big bag (1) by removing the pin (2) through the lock (3), as shown in **detail "A"**.

- Then put the pin (2) in the oblong hole of the arm (4) and secure with the lock (3) as shown in **detail "B"**.



FIGURES 19



## WARNING

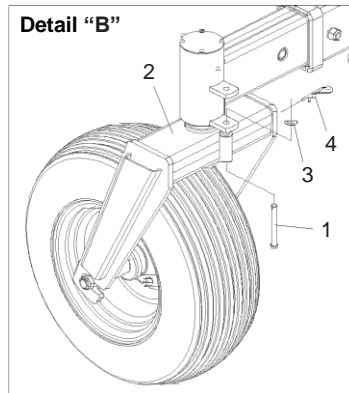
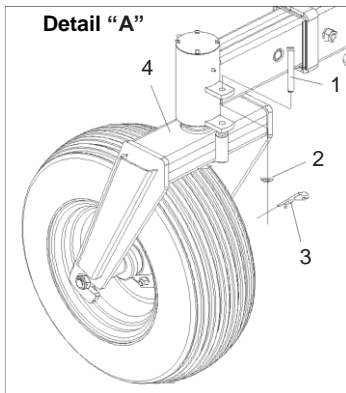
*Before working with the rear hoist, unlock the big bag (1). Ignoring this warning may result in tipping over the load. Do not work with the big bag (1) locked.*

## PREPARATION FOR TRANSPORT - GTG-RO Flex (FIGURES 19)

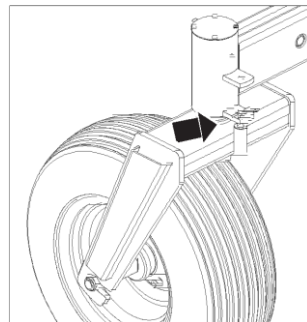
- Before working with the rear hoist, proceed as follows:

1 - Remove the pin (1), flat washer (2) and lock (3) from the couplers over the oscillating wheels (4), as shown in **detail "A"**.

2 - Then lock the oscillating wheels (4) by inserting the pin (1), flat washer (2) and lock (3), as shown in **detail "B"**.



**FOR "LOCKED WHEEL"  
TRANSPORT**



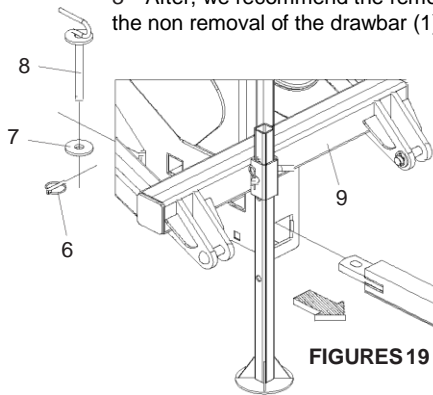
FIGURES 19



**WARNING**

*Before transporting with the rear hoist, lock the oscillating wheels to prevent damages to the hoist.*

3 - After, we recommend the removal of the drawbar (1) in the case of transport of only the rear hoist, without it coupled to the truck because the non removal of the drawbar (1) may result in serious accidents and damages to the equipment.



- To remove the drawbar (1), proceed as follows:
- First, decouple the shackle (2) from the tractor by removing the lock (3), flat washer (4) and pin (5).
- Then remove the lock (6), flat washer (7) and pin (8) to decouple the drawbar (1) from the rear hoist (9).



## WARNING

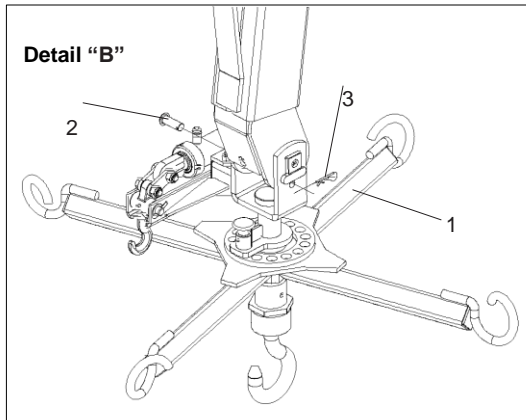
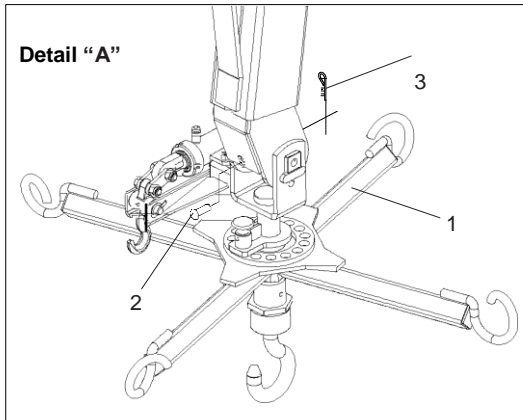
*When transporting only the rear hoist, without coupling the truck, remove the drawbar (1) before executing the transport. Ignoring this warning may result in serious accidents and damages to the equipment*



4 - Lastly, before transporting, unlock the big bag (1) to avoid serious accidents and damages to the equipment. To lock the big bag (1), proceed as follows:

- First, remove pin (2), loosening the lock (3), as shown in **detail "A"**.

- Then lock the big bag (1) by inserting the pin (2) and the lock (3), as shown in **detail "B"**.



FIGURES 19



## WARNING

*Before transporting the rear hoist, lock the big bag (1). Ignoring this warning may result in serious accidents and damages to the equipment. Do not transport the rear hoist with the big bag (1) unlocked.*



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## 07 - ADJUSTMENTS

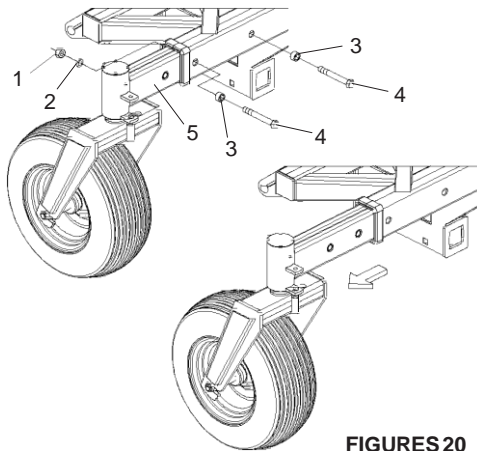
### ADJUSTMENT OF WHEEL OPENING - GTG-RO Flex (FIGURES 20)

- The rear hoist has a wheel opening system that provides greater stability to the hoist and tractor during work operations. To adjust the wheel opening, proceed as follows:

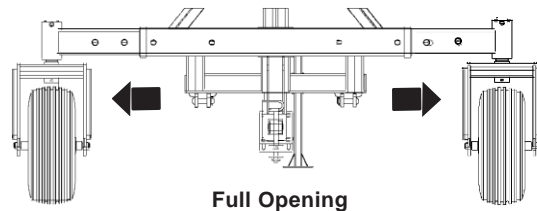
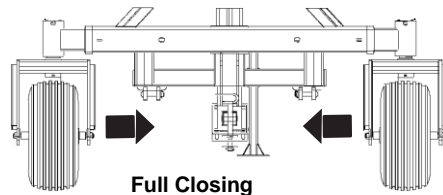
- Loosen the nuts (1), pressure washers (2), remove the bushings (3) and bolts (4).

- Then adjust the opening of the wheel support (5).

- Finish by locking the wheel support (5) with the bushings (3), bolts (4), pressure washers (2) and nuts (1).



FIGURES 20



Adjustable gauge of 1984 mm to 2684 mm.

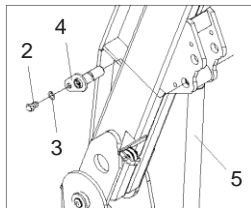


### WARNING

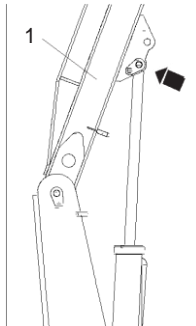
*When adjusting the opening of the wheels, attach the wheel support (5) with 2 bolts on each support. Ignoring this warning may result in serious accidents and damages to the equipment.*

### ARM HEIGHT ADJUSTMENT - GTG-RO Flex (FIGURES 21)

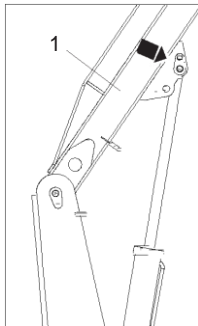
- The rear hoist has an arm height adjustment system (1) to raise the arm higher or lower. To adjust the height of the raised arm (1), proceed as follows:
- Loosen the bolt (2), pressure washer (3), remove the pin (4) and adjust the hydraulic cylinder rod (5) to the other adjustment.



FIGURES 21



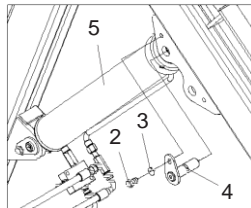
Higher Raise



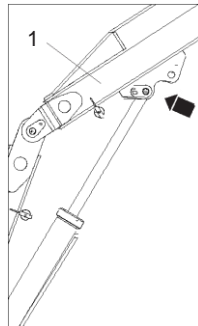
Lower Raise

### ARM OPENING ADJUSTMENT - GTG-RO Flex (FIGURES 22)

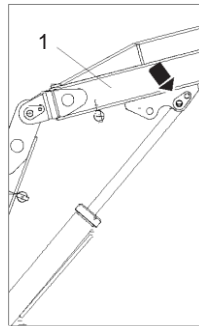
- The rear hoist has an arm height opening system (1) for greater or lesser arm articulation. To adjust the opening of the arm (1), proceed as follows:
- Loosen the bolt (2), pressure washer (3), remove the pin (4) and adjust the hydraulic cylinder rod (5) to the other adjustment.



FIGURES 22



Greater Articulation



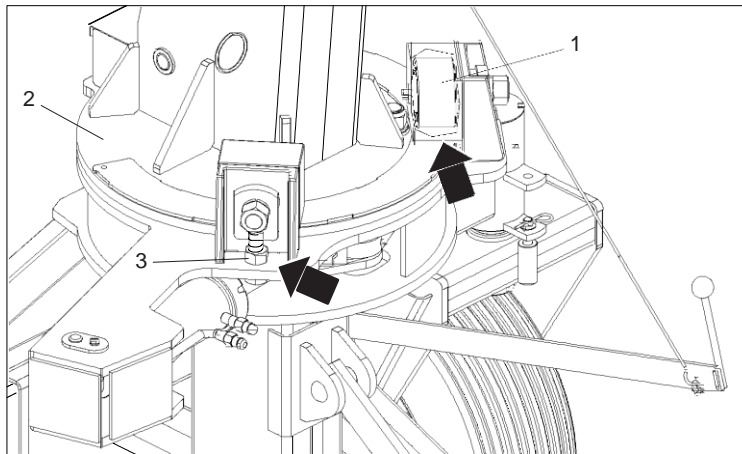
Lesser Articulation



## ADJUSTMENT OF SUPPORT PULLEYS ( FIGURE 23 )

- The rear hoist has support pulleys (1) that help rotate the tower, relieving the load from the central shaft. The support pulleys (1) should always be in contact with the base (2) of the central shaft, and this requires adjustment in the case of slack to adjust the support pulleys (1), proceed as follows:

**FIGURE 23**



- Turn the nut (3) in the clockwise direction for more contact between the pulley (1) and the base (2) of the central shaft.
- Turn the nut (3) in the anticlockwise direction for less contact between the pulley (1) and the base (2) of the central shaft.



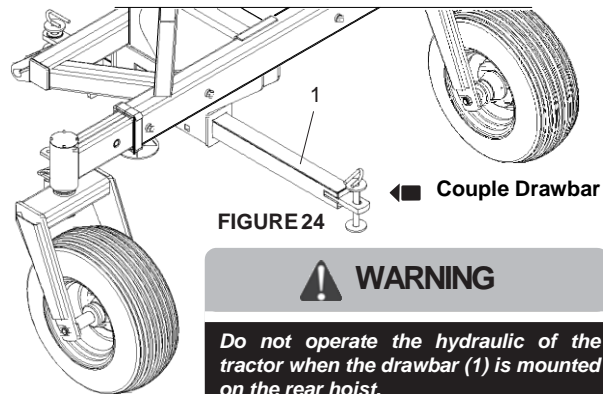
### **WARNING**

*The pulley (1) should be adjusted before the start of the works with the rear hoist. Non-adjustment of the pulley (1) may result in overload on the central shaft, causing damages to the equipment.*

## 08-OPERATIONS

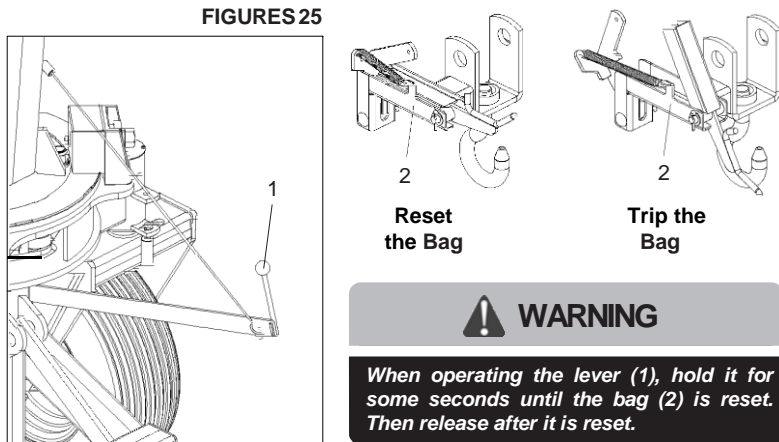
### DRAWBAR - GTG-RO Flex (FIGURE 24)

- The rear hoist has a drawbar (1) that executes the transport of the trucks without having to decouple the rear hoist.



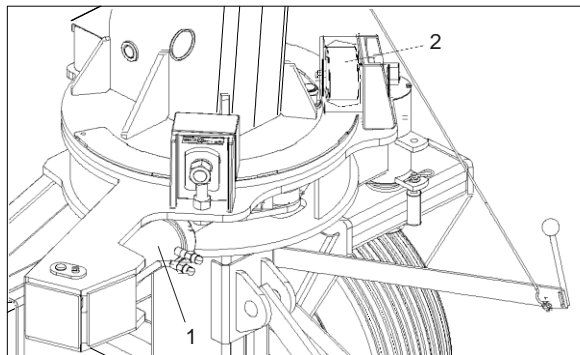
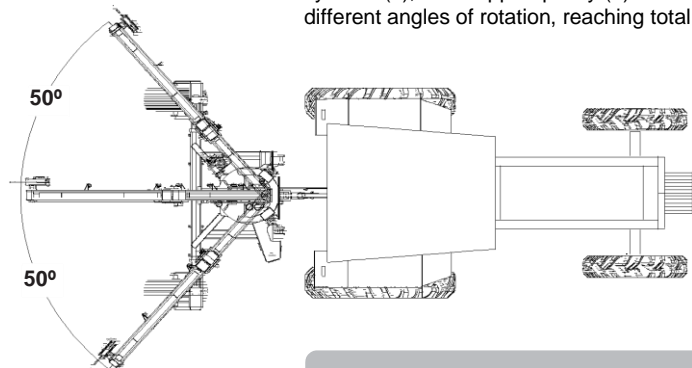
### LEVER - GTG-RO Flex (FIGURES 25)

- The rear hoist has a lever (1), which is used by the operator to trip the bag (2).



## ROTATION ANGLE - GTG-RO Flex (FIGURES 26)

- The rear hoist has a rotary tower driven by the hydraulic cylinder (1), with support pulley (2). This system provides different angles of rotation, reaching total angle of 100°.



FIGURES 26



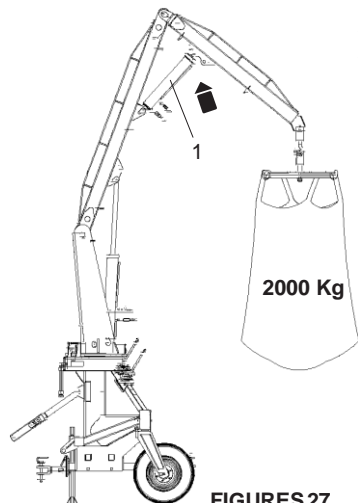
### WARNING

*When turning the arm of the rear hoist, raise the bag as little as possible, sufficient enough to suspend it from the ground. Do not turn the arm of the rear hoist with the bag raised. Ignoring this warning may result in serious accidents and damages to the equipment.*

## LOAD CAPACITY - GTG-RO Flex (FIGURES 27)

- The rear hoist has a load capacity that varies according to the lifting point.

- When the secondary hydraulic cylinder (1) is closed, the load capacity at this lifting point is 2000 kg.



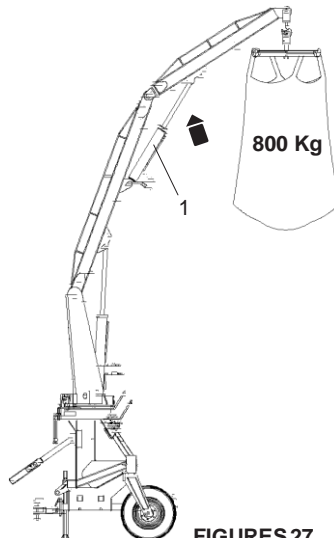
FIGURES 27



### WARNING

*Do not exceed 2000 kg at this lifting point. Ignoring this warning may result in tipping and damages to the equipment.*

- When the secondary hydraulic cylinder (1) is open, the load capacity at this lifting point is 800 kg.



FIGURES 27



### WARNING

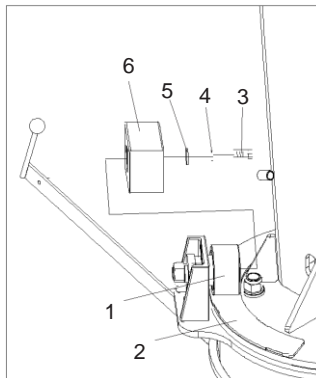
*Do not exceed 800 kg at this lifting point. Ignoring this warning may result in tipping and damages to the equipment.*

- 1 - Before working with the rear hoist, carry out a complete revision, checking the following points:
  - Lubrication of the components.
  - Tighten the nuts and bolts.
  - Lock the pins and retaining pins.
  - State of conservation of the hoses.
  - Adjustment of the support pulleys.
  - Calibration of tires.
- 2 - When transporting or operating the rear hoist, always keep it leveled.
- 3 - Do not exceed the load capacity limits at the lifting points.
- 4 - The displacement speed of the rear hoist must be carefully controlled according to the conditions of the land.

## 09-MAINTENANCE

### CHANGE OF SUPPORT PULLEYS - GTG-RO Flex (FIGURES 28)

- The rear hoist has support pulleys (1) and safety plates (2) that should be replaced as soon as they present slack and wear. To change the support pulleys (1), proceed as follows:
- First loosen the bolt (3), pressure washer (4) and flat washer (5) and remove the protection cover (6).

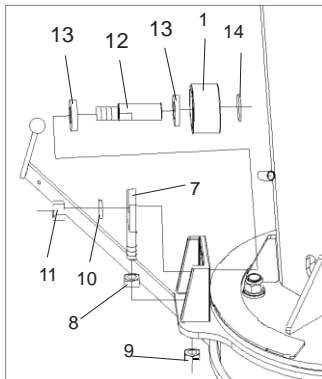


FIGURES 28



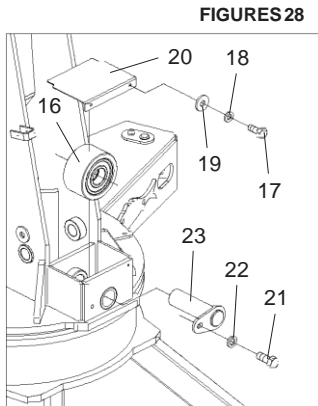
### WARNING

*Not changing the support pulleys (1) will result in overload on the central shaft, causing damages to the equipment. Also change the internal and external safety plates when changing the support pulleys (1).*



- Then loosen the pulley adjuster (7) through the nut (8) and lock nut (9). After, loosen the pressure washer (10) and nut (11) and remove the fixation pin (12), washers (13 and 14) and change the pulley (15).

- Sequentially, change the pulley (6) by loosening the bolts (17), pressure washers (18) and flat washers (19) and remove the cover (20). Then loosen the bolt (21), pressure washer (22), remove the pin (23) and change the pulley (16).



FIGURES 28

## TIRE PRESSURE - GTG-RO Flex (FIGURE 29)

1 – The tires must always be calibrated correctly, avoiding premature wear due to excess or lack of pressure.

2 – Before calibrating the tires, check below for the correct calibration.

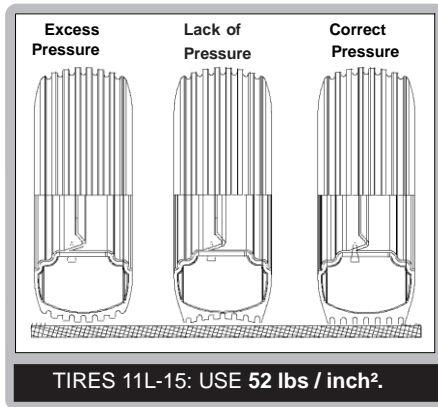


FIGURE 29

## LUBRICATION - GTG-RO Flex

- 1 - Lubrication is indispensable for a good performance and higher durability of the moving parts of the rear hoist, which helps save maintenance costs.
- 2 - Before executing the operation, carefully lubricate all greasers, always observing the lubrication intervals in the pages below.
- 3 - Check the quality of the lubricant in relation to its efficiency and purity, avoiding the use of products contaminated with water, soil and other agents.

TABLE OF GREASES AND EQUIVALENTS (TABLE 2)

MANUFACTURER	TYPE OF GREASE RECOMMENDED
PETROBRÁS	LUBRAX GMA 2
ATLANTIC	LITHOLINE MP 2
IPIRANGA	SUPER GRAXA IPIRANGA IPIRANGA SUPER GRAXA 2 IPIFLEX 2
MOBIL	MOBILGREASE MP 77
TEXACO	MARFAK 2 AGROTEX2
SHELL	RETINAX A ALVANIA EP 2

CASTROL	LM 2
ESSO	MULTIPURPOSE GREASE H LITHOLINE MP 2
BARDAHL	MAXLUB APG 2 EP

TABELA 02



### IMPORTANT

*In the case of other lubricants and/or brands of equivalent greases that are not on this table, consult the technical manual of the lubricant manufacturer.*

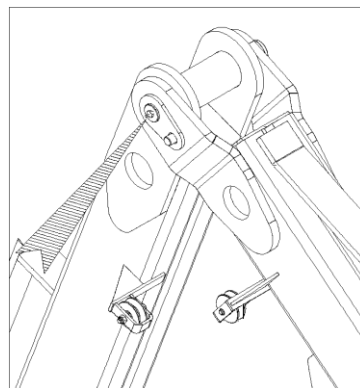
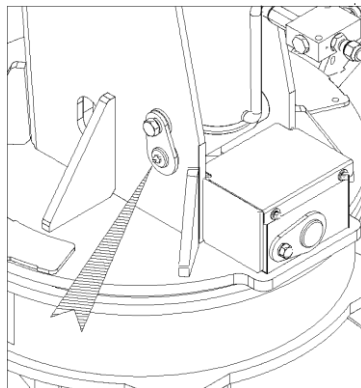
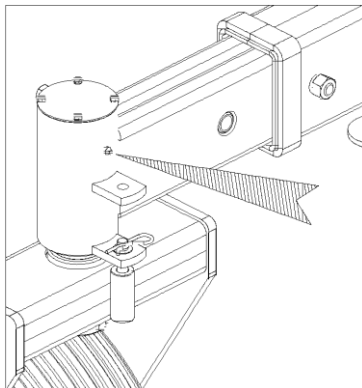




**IMPORTANT**

*Carefully observe the lubrication intervals for each component.*

LUBRICATE EVERY 10 WORKING HOURS (FIGURES 30)



FIGURES 30

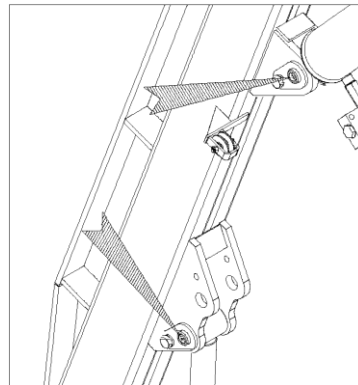
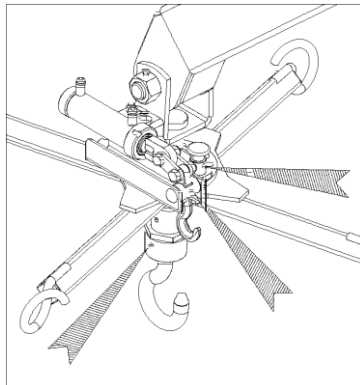
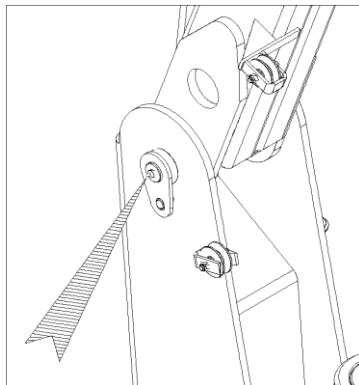




**IMPORTANT**

*Carefully observe the lubrication intervals for each component.*

LUBRICATE EVERY 10 WORKING HOURS (FIGURES 30)



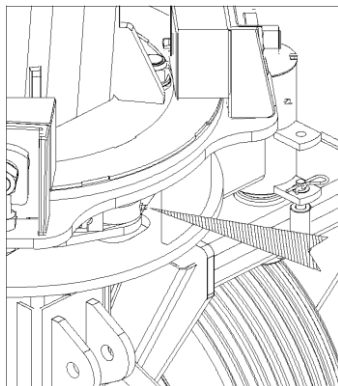
FIGURES 30



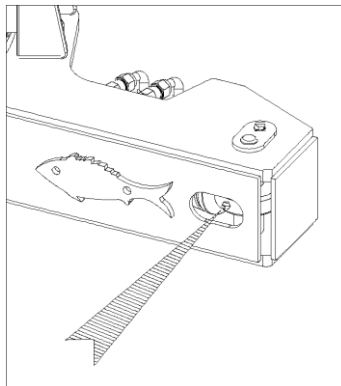
## IMPORTANT

*Carefully observe the lubrication intervals for each component.*

LUBRICATE EVERY 10 WORKING HOURS (FIGURES 30)



FIGURES 30



LUBRICATE EVERY 50 WORKING HOURS (FIGURES 31)



## WARNING

*When lubricating the rear hoist, do not use excess quantity of new grease. Add a sufficient amount.*

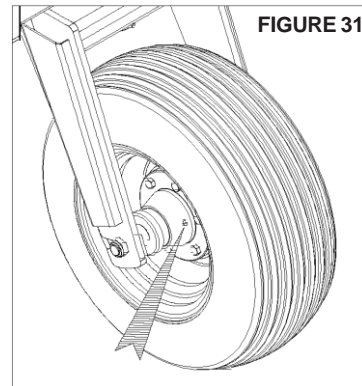


FIGURE 31

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Quick coupling system not adapts.	Different types of coupling systems.	Change them to male and female of the same type.
Leakage in the hoses with fixed terminals.	Not tight enough.	Carefully retighten.
	Lack of sealing material in the thread.	Use seal tape and carefully retighten.
Leakage in the hydraulic cylinder.	Repairs or Rod Damaged.	Replace the repairs or rod.
	Oil with impurities.	Replace oil, repairs and filtration elements
	Working pressure above recommended.	Adjust the control through the relief valve with the aid of a manometer. Normal pressure 180 kg/cm².
Leakage in quick coupling systems.	Not tight enough.	Carefully retighten.
	Lack of sealing material in the thread.	Use seal tape and carefully retighten.
	Damaged repairs.	Replace the repairs.

## 10 - PRECAUTIONS

- 1 - The rear hoist is used in various applications, demanding know-how and attention during its handling.
- 2 - Only local conditions can determine the best way of operating the rear hoist.
- 3 - Use the suitable methods and tools to mount or dismount any part of the rear hoist.
- 4 - Always check if the parts do not present wears. If replacement is required, **always demand for original Baldan parts.**

### GENERAL CLEANING - GTG-RO Flex

- Cleaning the rear hoist before storing it is recommended in order to conserve and increase the useful life of your equipment.
- To clean the rear hoist, proceed as follows:

- 1 – First carry out a general cleaning by completely washing.
- 2 – After, check if the paint is not worn, otherwise apply a general coat on all the worn parts.
- 3 – Completely lubricate the rear hoist and check all the moving parts for wear or looseness and perform the necessary adjustments or replacement of the parts, leaving the equipment ready for the next operation.
- 4 – After all the maintenance services, keep your rear hoist in a duly supported, safe and suitable place.



#### WARNING

*Do not use chemical detergents to wash the rear hoist because they can damage the painting.*



**BALDAN**

***Instruction Manual***

**GTG-RO FLEX - 50**

## 11 - OPTIONAL ITEMS

- The rear hoist has optional items that can be purchased according to necessity.

### HOOK "MECHANICAL" TRIP SYSTEM (FIGURE 32)

- Hook with mechanical trip system for different uses.

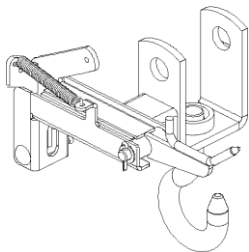


FIGURE 32

### "X" SUPPORT "MECHANICAL" TRIP SYSTEM (FIGURE 33)

- "X" Support with mechanical trip system used for works with agricultural input and seed bags.

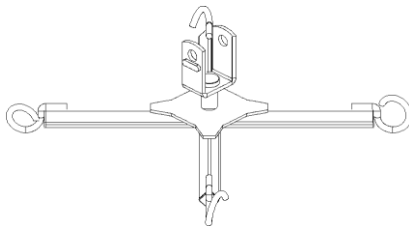


FIGURE 33

### "X" SUPPORT "HYDRAULIC" TRIP SYSTEM (FIGURE 34)

- "X" Support with hydraulic trip system used for works with agricultural input and seed bags.

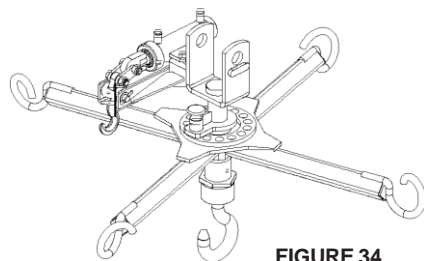


FIGURE 34

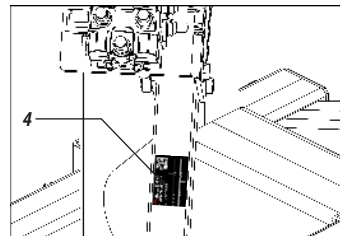
ONLY FOR TRACTOR WITH DUAL CONTROL

## 12 - IDENTIFICATION

- In order to refer parts catalogues or apply technical support from Baldan, always indicate model (1), serial number (2), manufacture date (3) located on the identification tag (4).

### ALWAYS REQUIRE BALDAN ORIGINAL PARTS

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



### PUBLICATIONS

Code: 60550105384  
CPT: GTGROFLEX08617



### CONTACT

*If you have questions, never operate the GTG-RO Flex see the post sale.*  
Phone: 0800-152577  
e-mail: posvenda@baldan.com.br



### WARNING

*The drawings in this instructions manual are for illustrative purposes only. To enable a better overview and detailed instructions, on some drawings in this manual, safety devices (covers, shields, etc..) were removed. Never operate the agricultural wagon without these devices.*

## IDENTIFICATION

### PRODUCT IDENTIFICATION

Do the identification below to always have the properly informations about your equipment life time.

*Owner:* \_\_\_\_\_

*Dealer:* \_\_\_\_\_

*Farm:* \_\_\_\_\_

*City:* \_\_\_\_\_ *Country:* \_\_\_\_\_

*Model:* \_\_\_\_\_

*Warranty certified number:* \_\_\_\_\_ *Serial number:* \_\_\_\_\_

*Purchase date:* \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

*Invoice. Nr:* \_\_\_\_\_

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



# CERTIFICATE OF WARRANTY

- 01 - **BALDAN IMPLEMENTOS AGRÍCOLAS S/A**, guarantee the normal operation of the product for a 6 (six) months period dated from the dealers's bill of sale to the first final customer.
- 02 - During this period, **Baldan** compromise itself to repair the material or manufacturing defects, but the labour, the freight and other expenses are the dealer's responsibility.
- 03 - At the guarantee period, all the request and replacement of any defective part must be made to the dealer of the region, which will send the defective part for analysis at **Baldan**.
- 04 - When this procedure won't be possible and the dealer couldn't have the ability to solve the problem, the dealer can ask for **Baldan's Technical Assistance** using the specific form delivered to them.
- 05 - After the analysis of the items replaced by **Baldan Technical Assistance** and if we conclude that it wasn't a guarantee problem, then the dealer will be the responsible for all costs related to the replacement; as well as material expenses, travel including accommodation and meals, also the accessories, lubricant used or any other expenses after having called the Technical Assistance. And, withal, the company Baldan is authorized to issue the billing in name of the respective reseller.
- 06 - Any repair made to the product which is in warranty period by the dealer, will only be authorized by Baldan after budget previous presentation describing pieces and labour to be accomplished.
- 07 - It is out of this term the product which has repairs or modifications not made by dealers from Baldan's network, as well as pieces applications or not authentic components to the product by the user.
- 08 - This certificate of guarantee will become invalid when notice that the damage or defect is the result of incorrect use of the product, of instructions non-observance or operator's inexperience.

- 09 - It's stipulated that this guarantee don't cover tires, polyethylene deposits, universal joints, hydraulic components, etc, wich equipments are guarantee by their manufacturers.
- 10 - The material or manufacture defects, object of this certificate of guarantee, will not be, by any hypotesis, reason for cancellation of the contract of sale, or indemnity of any kind.
- 11 - For a warranty solicitation to the distributor, you have to proceed in the following manner:
- 12 - Send the technical informe detailed telling the problem (technical assistance request form to the client), you can find it send us an email to **after-sales@baldan.com.br** or acessing our website.
- 13 - If it's possible send films and photos from the requested spare parts.
- 14 - To point at the form: serial number, manufacture year, etc, that is, all information asked at the form. The damage spare parts should be available for analysis of the the after sales department in a future visit (in case of requested).
- 15 - **Baldan** keeps the right of changing and or improve the technical characteristics of its products, without notice and without the obligation of act like this way with its previously manufactured products.



## INSPECTION AND DELIVERY CERTIFICATE

- **SERVICE BEFORE THE DELIVERY:** This equipment was very carefully prepared by the dealer's organization, inspected in all its parts in agreement with the manufacture's prescription.
- **DELIVERY SERVICE:** The user was informed about the current guarantee terms and instructed about maintenance care and utilization.
- I confirm that I was informed about the current guarantee terms and instructed about the correct utilization and maintenance of this product.

Product: \_\_\_\_\_ Serial number: \_\_\_\_\_

Date: \_\_\_\_\_ Bill of sale: \_\_\_\_\_ Store: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Owner: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ Number: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Date of sale: \_\_\_\_\_



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City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Owner: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ Number: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Date of sale: \_\_\_\_\_



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City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

Owner: \_\_\_\_\_ Phone: \_\_\_\_\_

Address: \_\_\_\_\_ Number: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

E-mail: \_\_\_\_\_ Date of sale: \_\_\_\_\_

3ª Page - Manufacturer

Please send this filled copy to Baldan, until 15 days after the purchase.

Signature / Store's stamp \_\_\_\_\_







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Nova Matão  
15.993-900  
Matão/SP - Brasil  
sac@baldan.com.br  
export@baldan.com.br

+55 16 3221 6500  
baldan.com.br