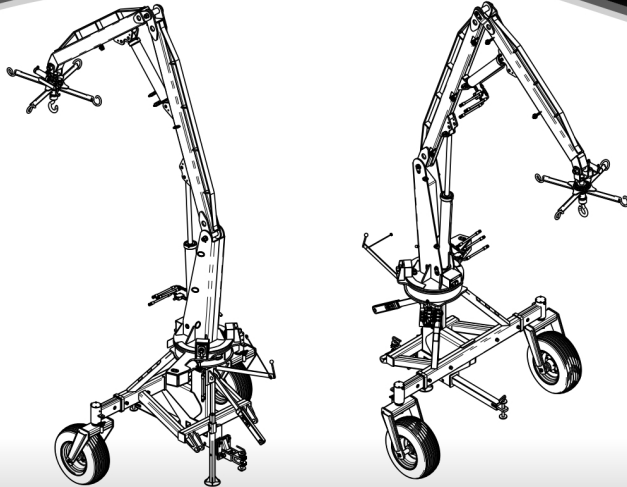


GTG-RO Flex

**Agricultural/ Citrus
Rear Hoist**



www.baldan.com.br

Instruction Manual

INTRODUCTION

Thank you for your preference and congratulations on the excellent choice you have just made, because you have purchased a product manufactured with the BALDAN IMPLEMENTOS AGRICOLAS S/A technology.

This manual will guide you in the necessary procedures, from your purchase to operating use, safety and maintenance procedures.

BALDAN guarantees the delivery of this implement to the dealer, complete and in perfect conditions.

The dealer is responsible for the safekeeping and conservation during the period it remains in its power, and also for mounting, retightening, lubrication and general revision.

During technical delivery, the dealer should instruct the customer regarding maintenance, safety, its obligations in future technical support, the strict observation of the warranty term and reading of the instruction manual.

Any request for technical support in warranty must be made to the dealer from whom it was purchased.

We repeat the need to carefully read the certificate of warranty and the observation of all the items of this manual, as this will increase the life of your equipment.



THIS WARNING SYMBOL INDICATES IMPORTANT SAFETY WARNINGS IN THIS MANUAL. EVERY TIME YOU SEE THIS SYMBOL IN THIS MANUAL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND PAY ATTENTION TO THE POSSIBILITY OF PERSONAL ACCIDENTS.

Instruction Manual



TABLE OF CONTENTS

01 – SAFETY STANDARDS	5
AGRICULTURAL REAR HOIST / CITRUS-GTG-ROFlex "Mechanical Trip"	12
02-COMPONENTS	12
AGRICULTURAL REAR HOIST / CITRUS-GTG-ROFlex "Hydraulic Trip"	13
02-COMPONENTS	13
03-TECHNICAL SPECIFICATIONS	14
04-MOUNTING	19
MOUNTING OF BIG ARM - GTG-RO Flex (FIGURE5)	19
MOUNTING OF MECHANICAL TRIP - GTG-RO Flex (FIGURE7)	20
MOUNTING OF SMALL ARM - GTG-RO Flex (FIGURE6)	20
MOUNTING OF HYDRAULIC TRIP - GTG-RO Flex (FIGURES8)	21
MOUNTING OF WHEEL SUPPORT GTG-RO Flex (FIGURE9)	21
MOUNTING OF SUPPORT GTG-RO Flex (FIGURE11)	22
MOUNTING OF TIRES - GTG-RO Flex (FIGURE10)	22
MOUNTING OF DRAWBAR AND COUPLING SHACKLE - GTG-RO Flex (FIGURE12)	23
MOUNTING OF HYDRAULIC CONTROL - GTG-RO Flex (FIGURES13)	24
MOUNTING OF SAFETY VALVES - GTG-RO Flex (FIGURES14)	24
MOUNTING OF HYDRAULIC HOSES –	25
GTG-RO Flex (FIGURES15).....	25
05-COUPLING TO TRACTOR	28
THIRD POINT SPREADER - GTG-RO Flex (FIGURES17)	30
06-WORK / TRANSPORT	31
PREPARATION FOR WORK - GTG-RO Flex (FIGURES18)	31
PREPARATION FOR TRANSPORT - GTG-RO Flex (FIGURES19)	33
07-ADJUSTMENTS	36
ADJUSTMENT OF WHEEL OPENING - GTG-RO Flex (FIGURES20)	36
ARM HEIGHT ADJUSTMENT - GTG-RO Flex	37
ADJUSTMENT OF SUPPORT PULLEYS (FIGURE23)	38

TABLE OF CONTENTS

07-ADJUSTMENTS	36
ADJUSTMENT OF WHEEL OPENING - GTG-RO Flex (FIGURES 20)	36
ARM HEIGHT ADJUSTMENT - GTG-RO Flex	37
ADJUSTMENT OF SUPPORT PULLEYS (FIGURE 23)	38
DRAWBAR - GTG-RO Flex (FIGURE 24)	39
LEVER - GTG-RO Flex (FIGURES 25)	39
ROTATION ANGLE - GTG-RO Flex (FIGURES 26)	40
LOAD CAPACITY - GTG-RO Flex (FIGURES 27)	41
OPERATIONS - GTG-RO Flex	42
09-MAINTENANCE	42
CHANGE OF SUPPORT PULLEYS - GTG-RtO Flex (FIGURES 28)	42
TIRE PRESSURE - GTG-RO Flex (FIGURE 29)	43
LUBRICATION - GTG-RO Flex	44
TABLE OF GREASES AND EQUIVALENTS (TABLE 2)	44
LUBRICATION POINTS - GTG-RO Flex	45
LUBRICATE EVERY 10 WORKING HOURS (FIGURES 30)	45
LUBRICATION POINTS - GTG-RO Flex	46
LUBRICATE EVERY 10 WORKING HOURS (FIGURES 30)	46
LUBRICATION POINTS - GTG-RO Flex	47
LUBRICATE EVERY 50 WORKING HOURS (FIGURES 31)	47
LUBRICATE EVERY 10 WORKING HOURS (FIGURES 30)	47
OPERATING MAINTENANCE - GTG-RO Flex	48
10-PRECAUTIONS	49
GENERAL CLEANING - GTG-RO Flex	49
11 - OPTIONAL ITEMS	50
“MECHANICAL” TRIP SYSTEM	50
(FIGURE 33)	50
“HYDRAULIC” TRIP SYSTEM	50
12-IDENTIFICATION	51
PRODUCT IDENTIFICATION	52



01 – SAFETY STANDARDS

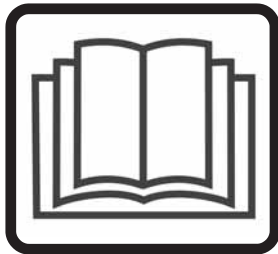


THIS SYMBOL INDICATES IMPORTANT SAFETY WARNING. EVERY TIME YOU SEE IT IN THIS MANUAL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND PAY ATTENTION TO THE POSSIBILITY OF PERSONAL ACCIDENTS.



WARNING

- Carefully read the instructions manual to know the recommended safety practices.



WARNING

- Only start operating the tractor when properly accommodated and with the sit belt locked.



WARNING

- Do not transport people on the tractor and neither inside nor over the equipment.





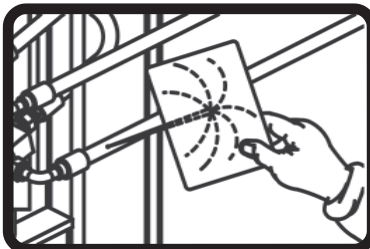
WARNING

- Before executing any maintenance on your equipment, check if it is at a standstill
- Avoid being hit.



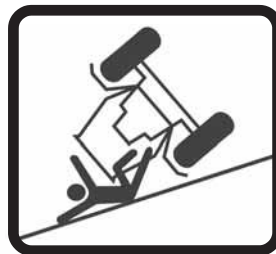
WARNING

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



WARNING

- There are risks of severe injuries due to falling when working on sloped lands.
- Do not use excess speed.



ALCOHOLIC DRINKS OR OTHER DRUGS CAN CAUSE LOSS OF REFLEXES AND ALTER THE PHYSICAL CONDITIONS OF THE OPERATOR. THEREFORE, NEVER OPERATE THIS EQUIPMENT WHEN UNDER THE INFLUENCE OF THESE SUBSTANCES.

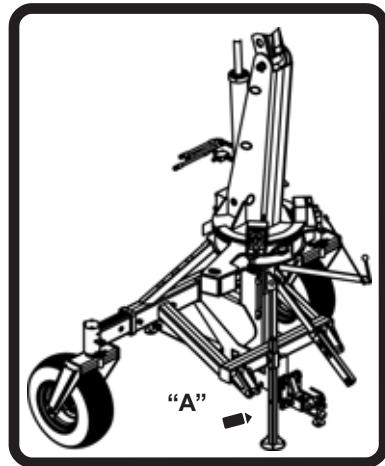
WARNING

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



WARNING

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





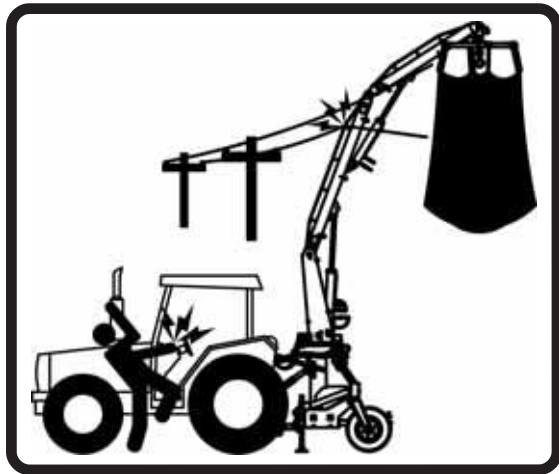
WARNING

- 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.



WARNING

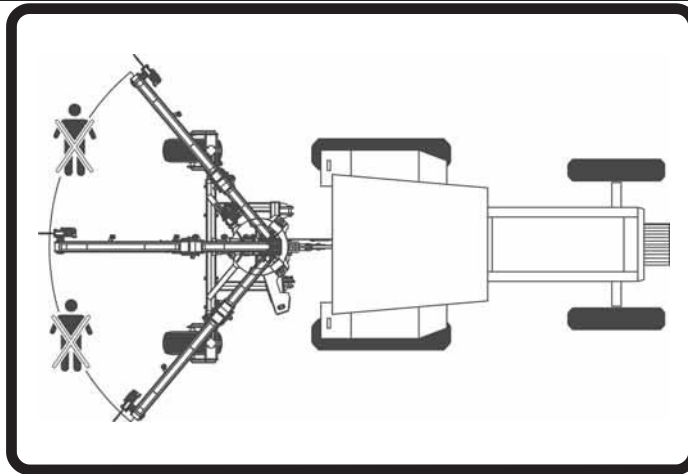
- When operating the rear hoist, keep away from electric power lines, low tree branches and other raised obstructions to avoid serious injuries or even death.





WARNING








- 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:



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.

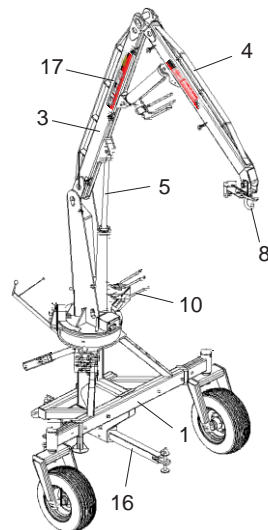
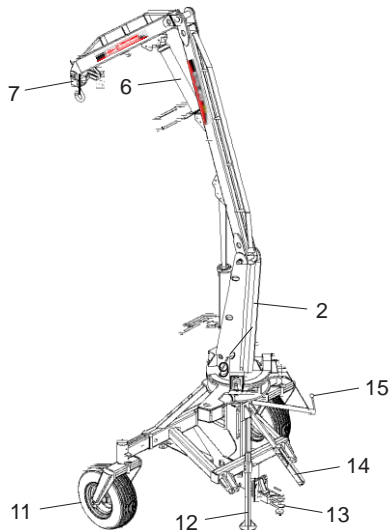
- 1 -  When operating with the rear hoist, prevent people from staying too close to or over it.
- 2 -  Do not use loose clothing as it can get caught on the rear hoist.
- 3 -  When activating the tractor engine, be properly seated on the operator seat and have complete knowledge of the correct and safe 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.

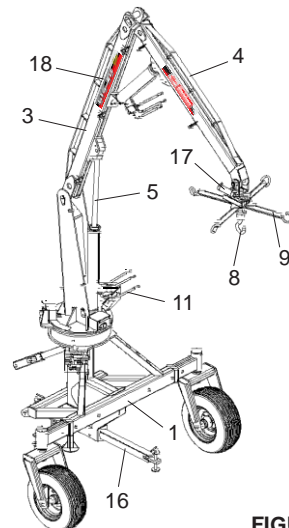
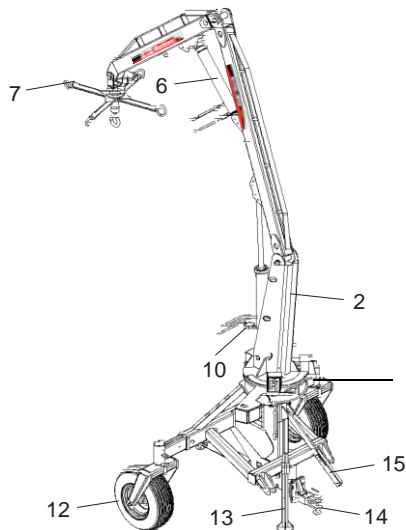
12

- ## FIGURES 1



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



FIGURES2

03-TECHNICAL SPECIFICATIONS

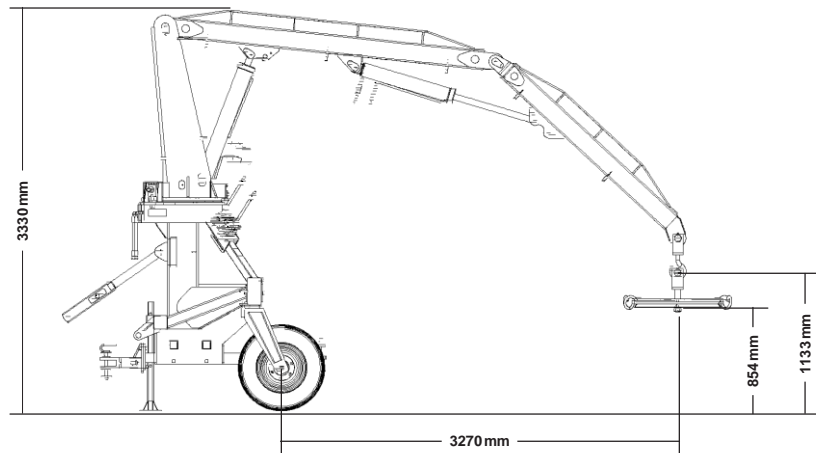
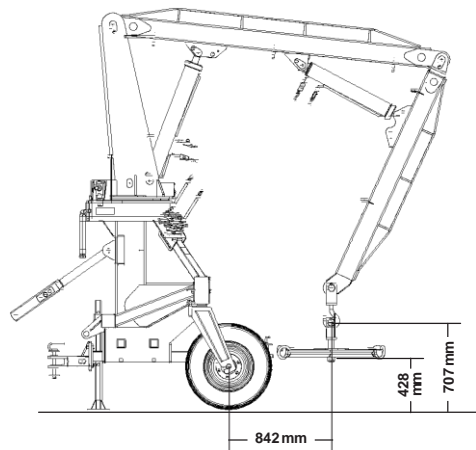
TABLE 1

<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>
GTG-RO Flex	6570	2000	800	2808	3330	11L - 15	100°	1000	70

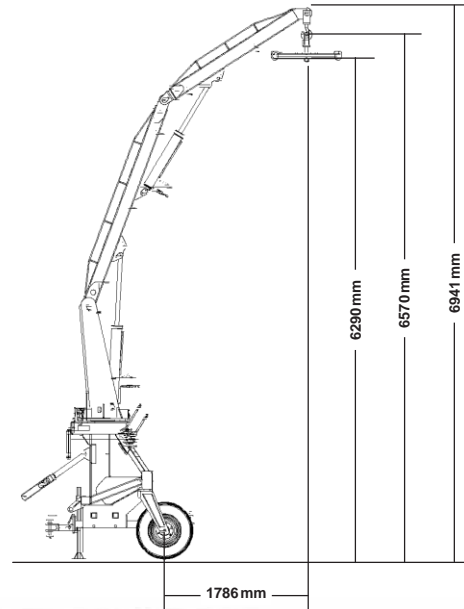
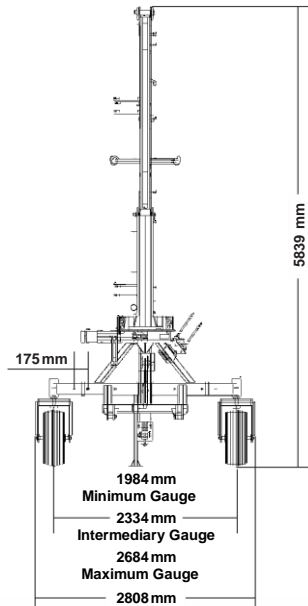
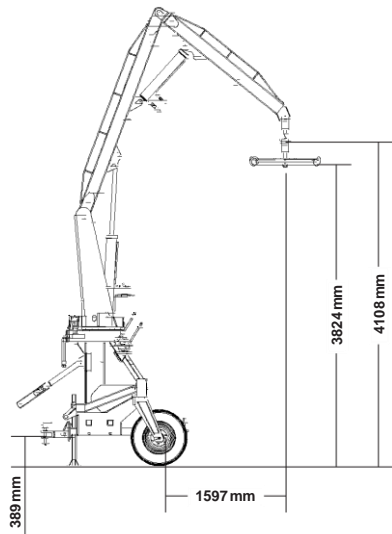
Baldan reserves the right to change the technical features of this product without prior warning.
The technical specifications are approximate and informed in the normal working conditions.



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



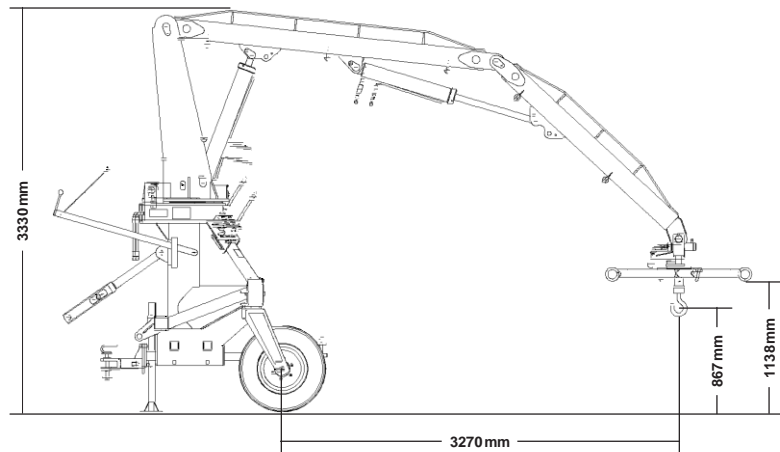
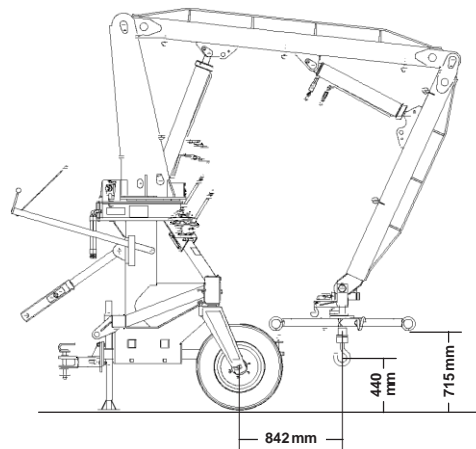
FIGURES 3



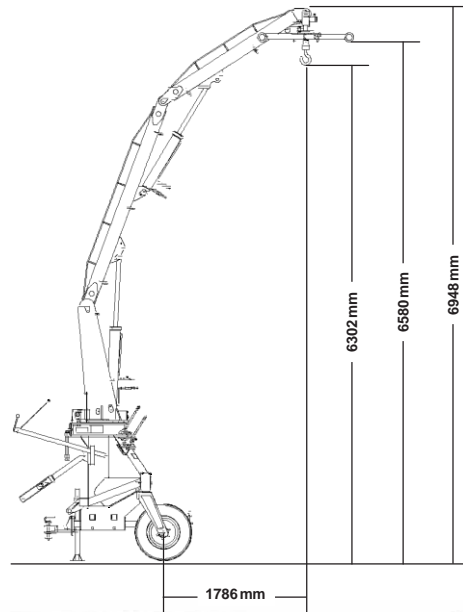
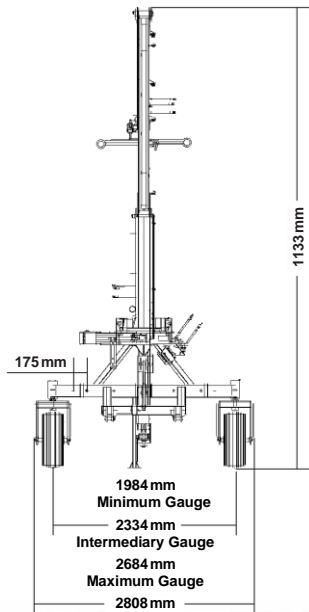
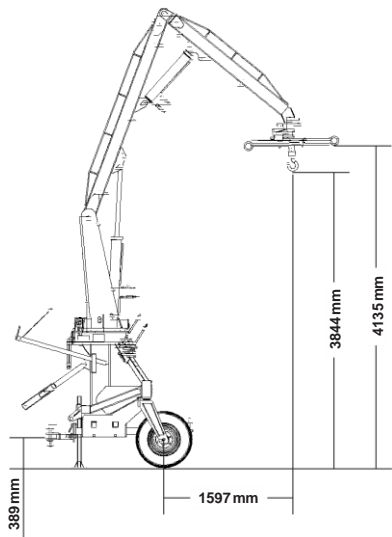
FIGURES 3



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



FIGURES 4



FIGURES 4

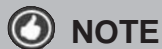


04 - MOUNTING

- 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).



NOTE

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

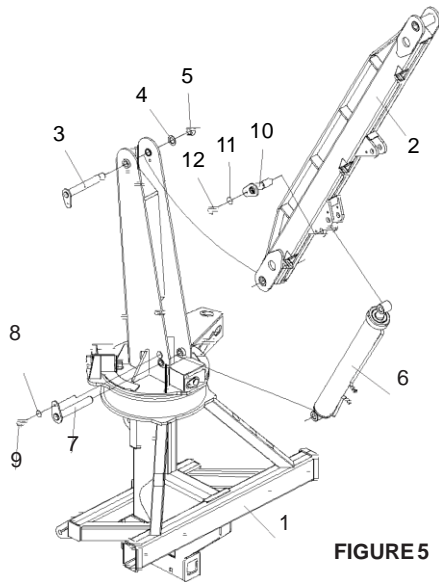


FIGURE 5



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).

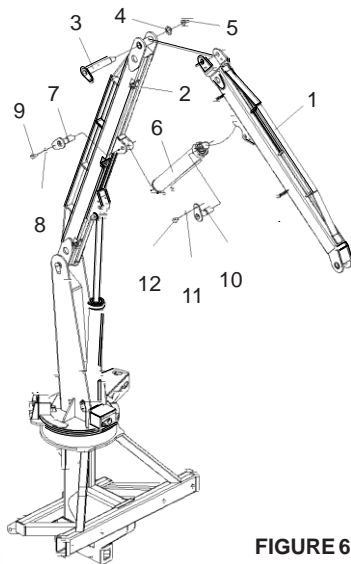
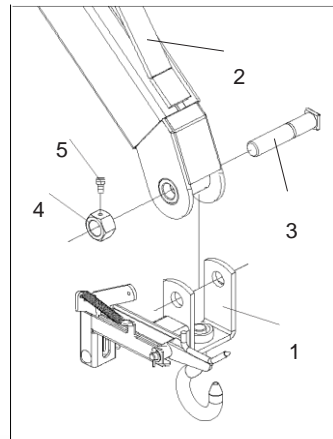
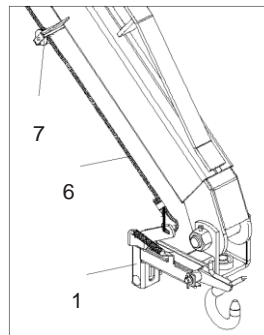


FIGURE 6

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).

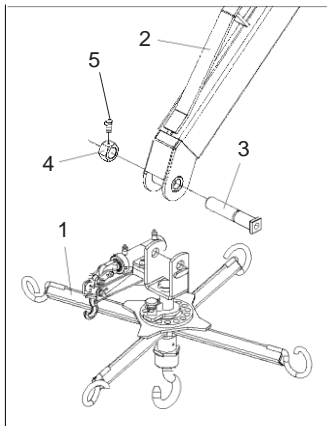
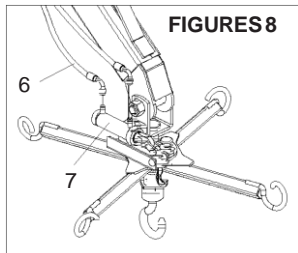
FIGURES 7



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.



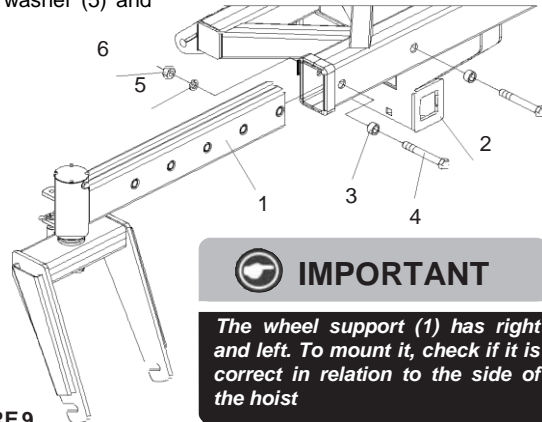
WARNING

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).



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).

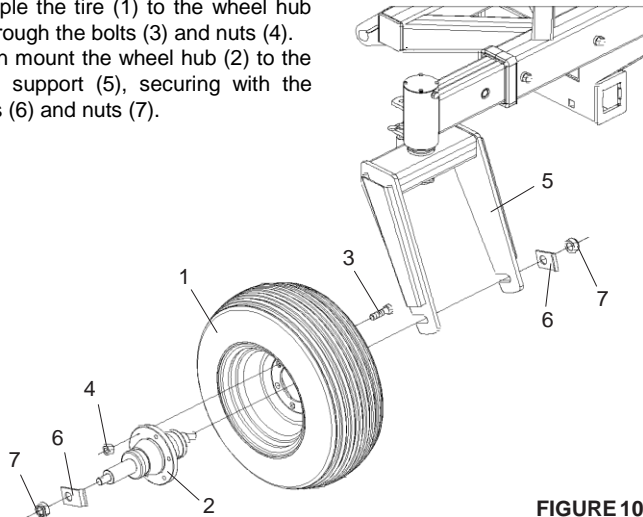


FIGURE 10

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).

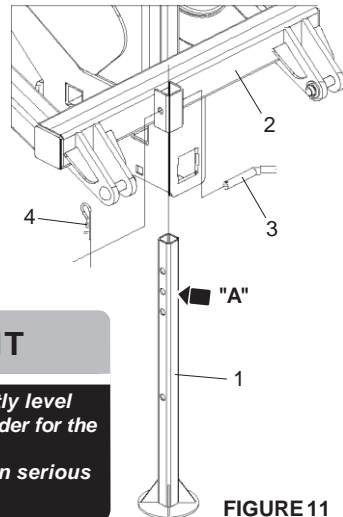


FIGURE 11



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.

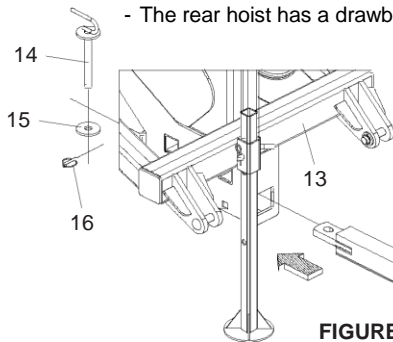
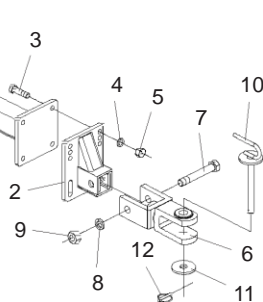


FIGURE 12

- 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).

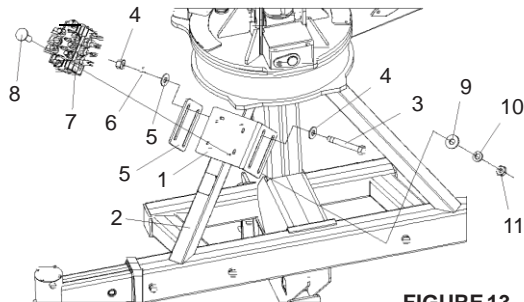
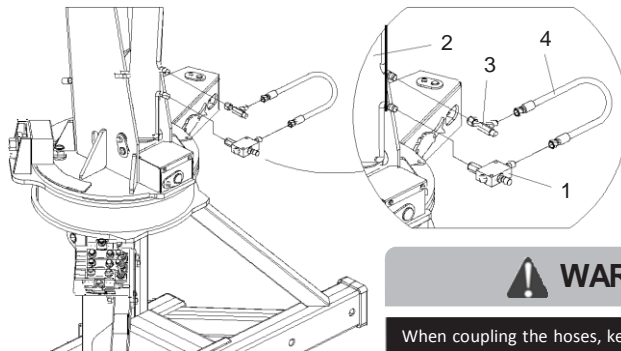


FIGURE 13

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.



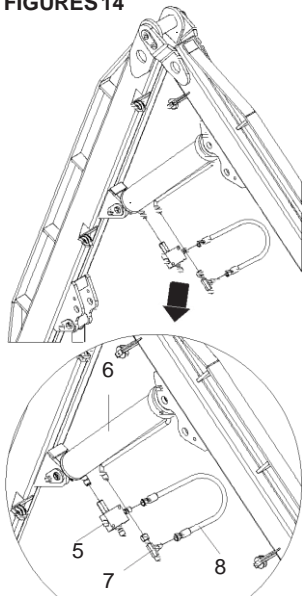
FIGURES 14



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.



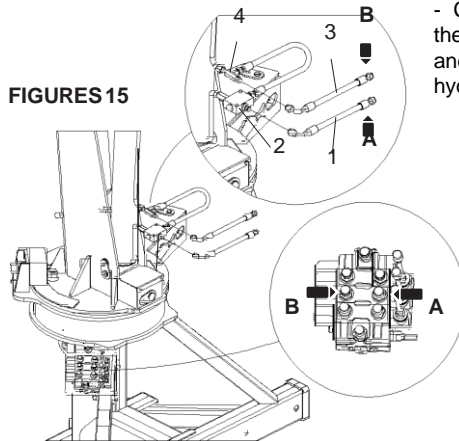
WARNING

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:

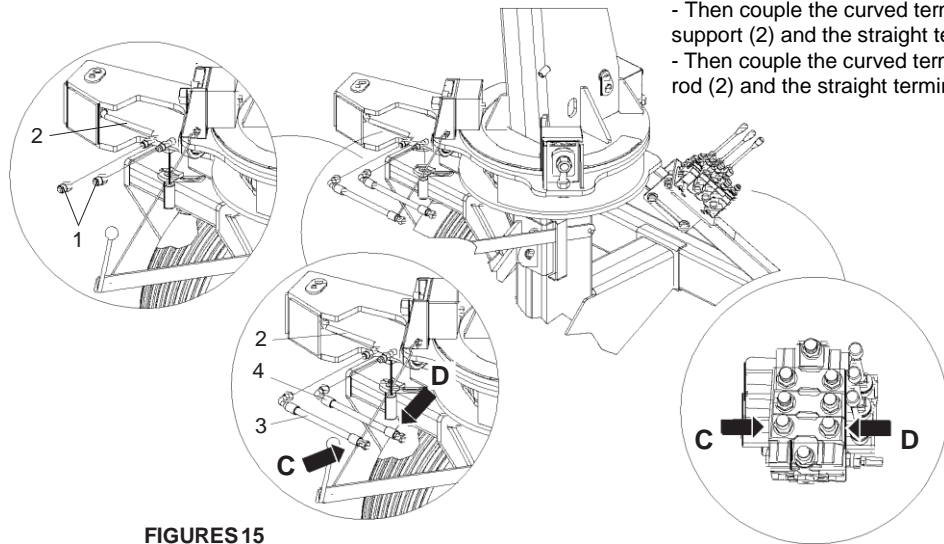
FIGURES 15



- 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.

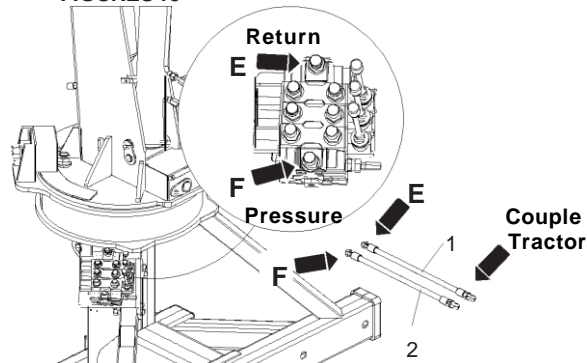


WARNING

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

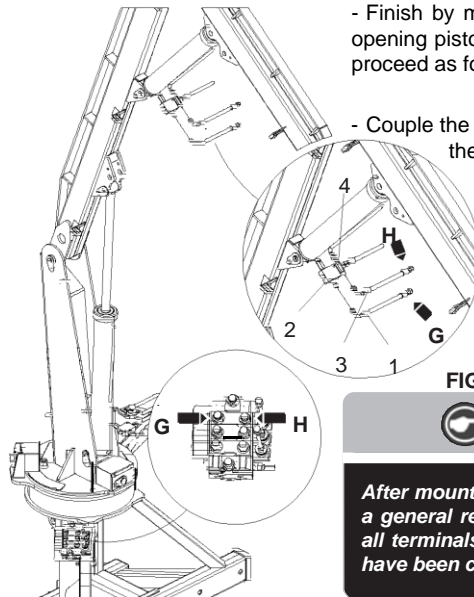
- Next, mount the hydraulic hoses on the tractor. To mount them, proceed as follows:
- Couple the straight hose terminal (1) to the hydraulic command point (E) and the quick coupling terminal to the tractor.
- Then couple the straight hose terminal (2) to the hydraulic command point (F) and the quick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

FIGURES 15



- 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).



FIGURES 15



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.

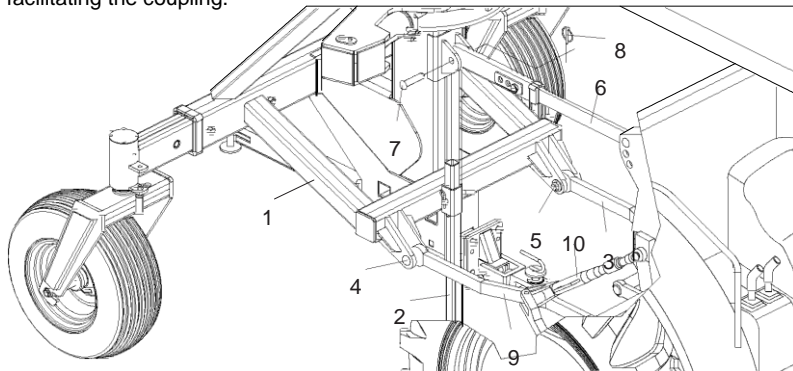
- The rear hoist (1) is equipped with a support (2) that ensures greater facility and safety during coupling and decoupling from the tractor. To couple the rear hoist, proceed as follows:

- 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).



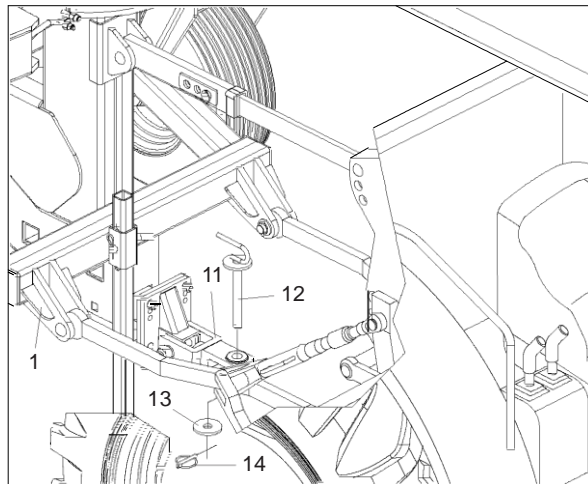
WARNING

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

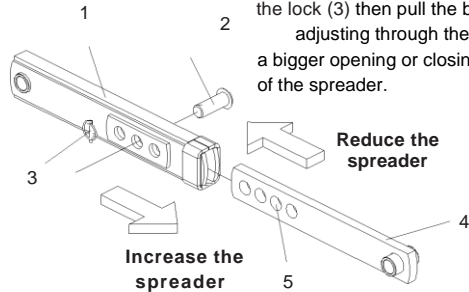
THIRD POINT SPREADER - GTG-RO Flex (FIGURES 17)

- 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:

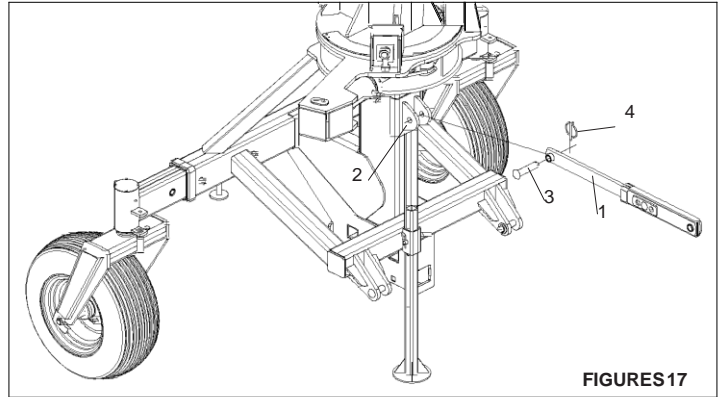
- Loosen the pin (2) by removing

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

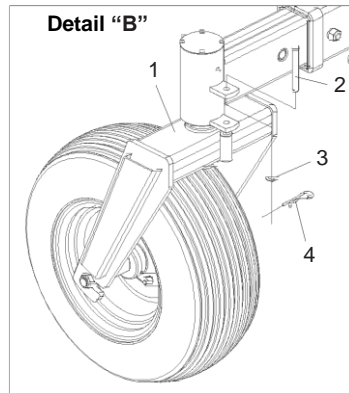
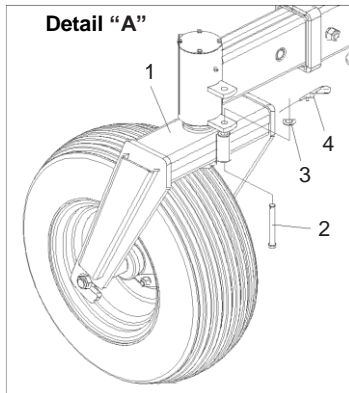
06 - WORK / TRANSPORT

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

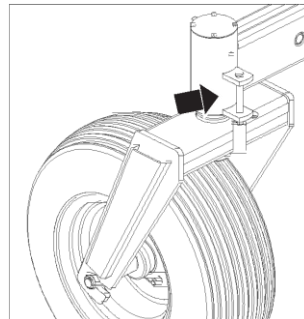
- Before working with the rear hoist, proceed as follows:

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



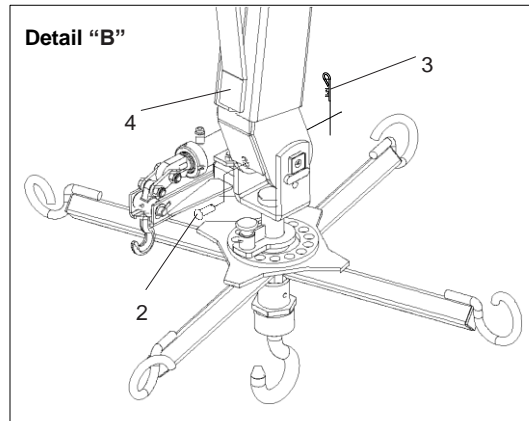
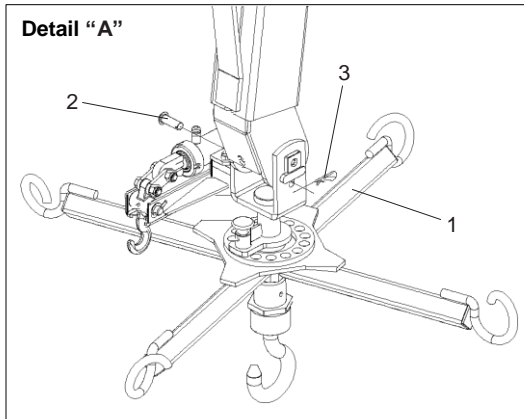
WARNING

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.

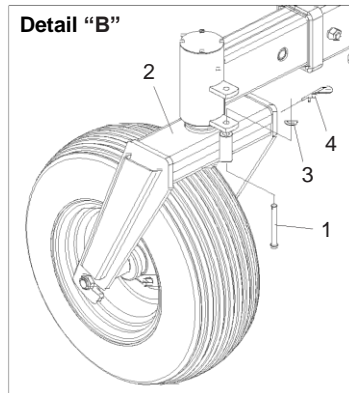
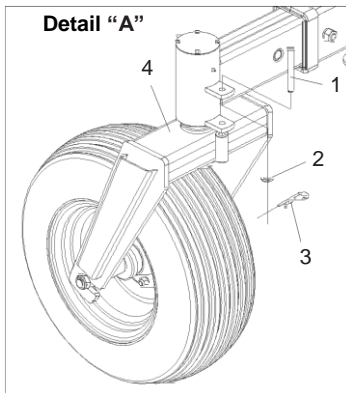


PREPARATION FOR TRANSPORT - GTG-RO Flex (FIGURES 19)

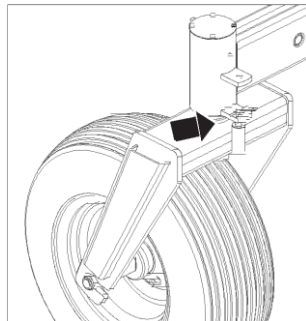
- Before working with the rear hoist, proceed as follows:

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**



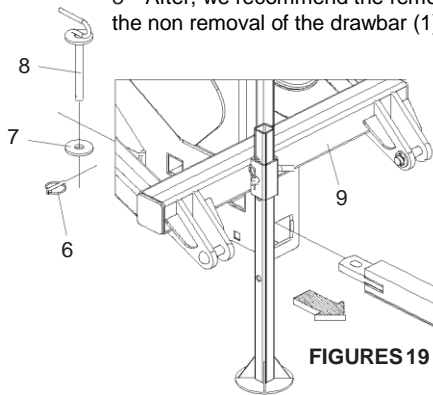
FIGURES 19



WARNING

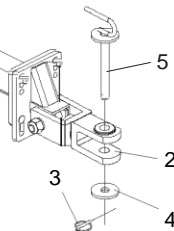
Before transporting with the rear hoist, lock the oscillating wheels to prevent damages to the hoist.

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).

FIGURES 19



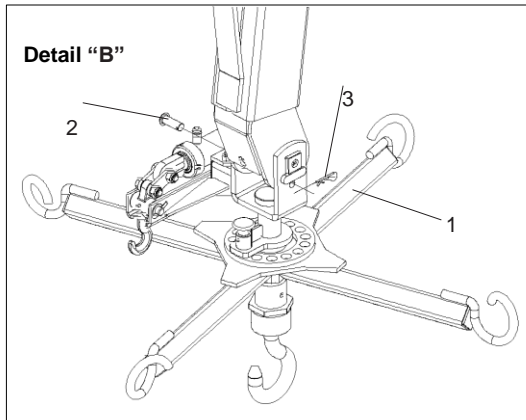
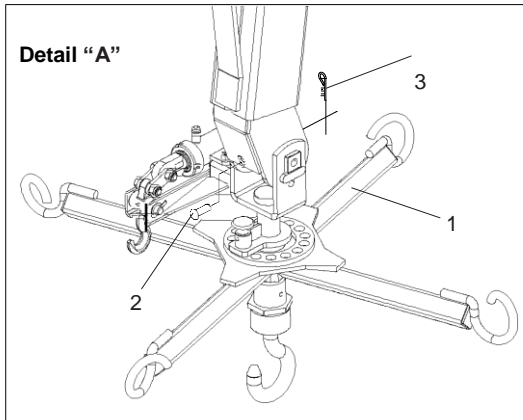
WARNING

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.

07 - ADJUSTMENTS

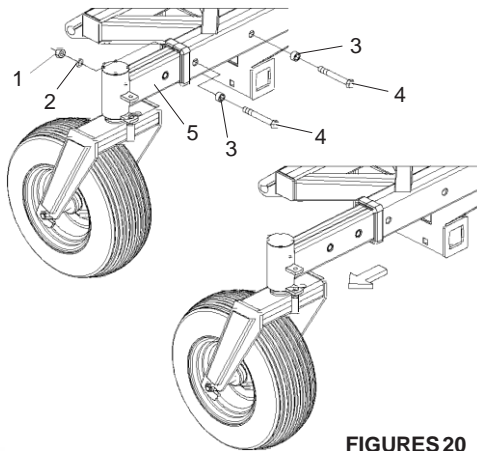
ADJUSTMENT OF WHEEL OPENING - GTG-RO Flex (FIGURES 20)

- 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:

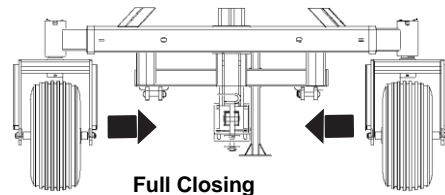
- Loosen the nuts (1), pressure washers (2), remove the bushings (3) and bolts (4).

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

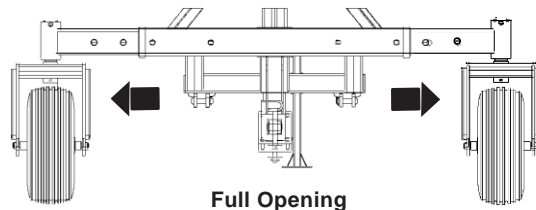
- Finish by locking the wheel support (5) with the bushings (3), bolts (4), pressure washers (2) and nuts (1).



FIGURES 20



Full Closing

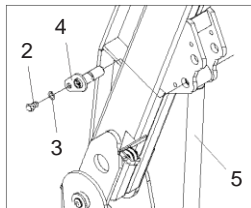


Full Opening

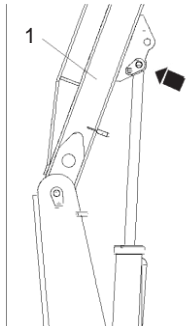
Adjustable gauge of 1984 mm to 2684 mm.

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

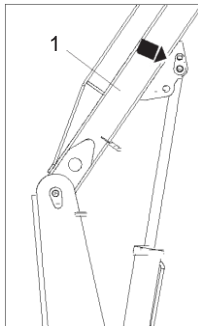
- The rear hoist has an arm height adjustment system (1) to raise the arm higher or lower. To adjust the height of the raised arm (1), proceed as follows:
- Loosen the bolt (2), pressure washer (3), remove the pin (4) and adjust the hydraulic cylinder rod (5) to the other adjustment.



FIGURES 21



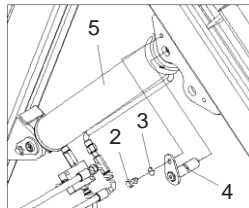
Higher Raise



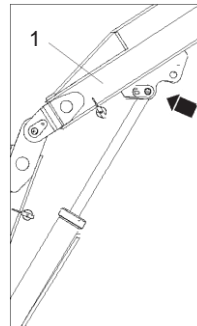
Lower Raise

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

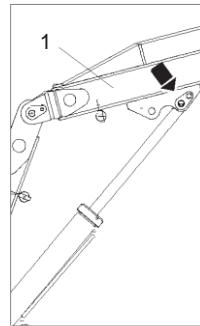
- The rear hoist has an arm height opening system (1) for greater or lesser arm articulation. To adjust the opening of the arm (1), proceed as follows:
- Loosen the bolt (2), pressure washer (3), remove the pin (4) and adjust the hydraulic cylinder rod (5) to the other adjustment.



FIGURES 22



Greater Articulation

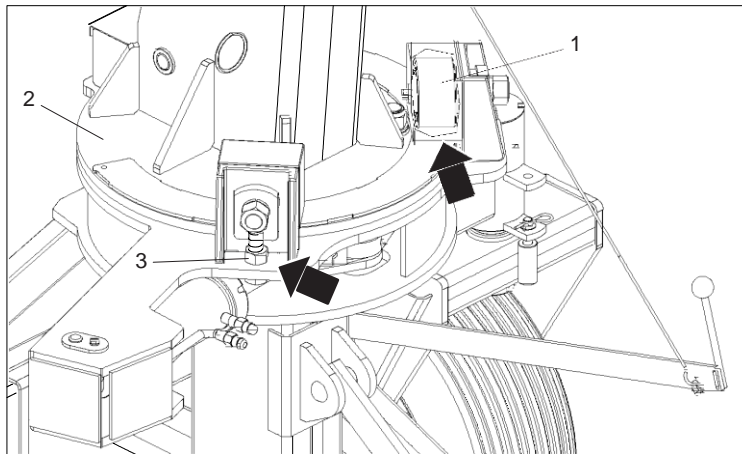


Lesser Articulation

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.



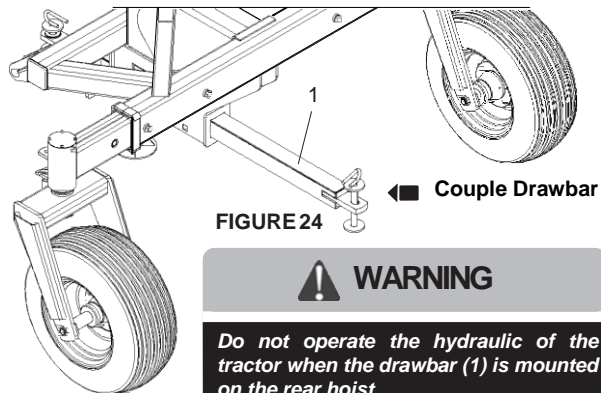
WARNING

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

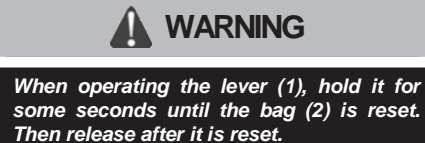
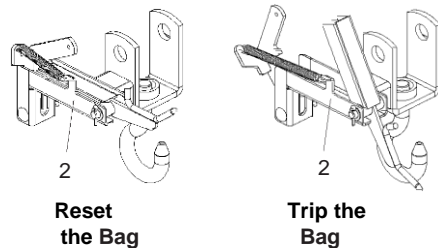
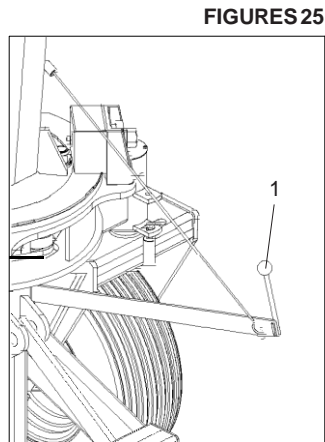
DRAWBAR - GTG-RO Flex (FIGURE 24)

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



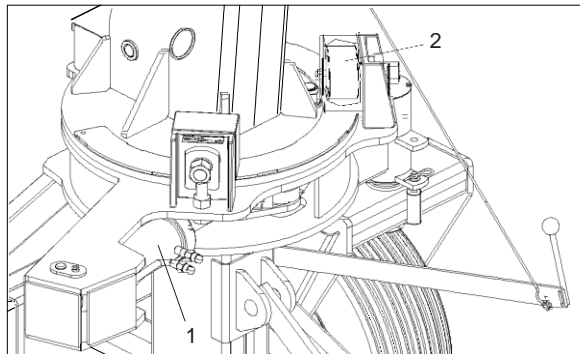
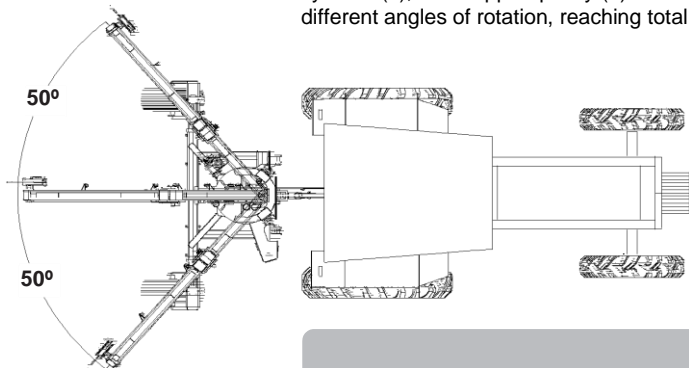
LEVER - GTG-RO Flex (FIGURES 25)

- 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



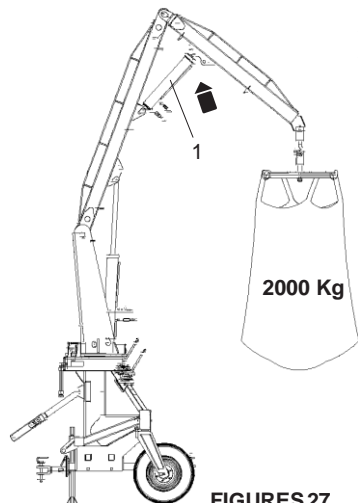
WARNING

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.



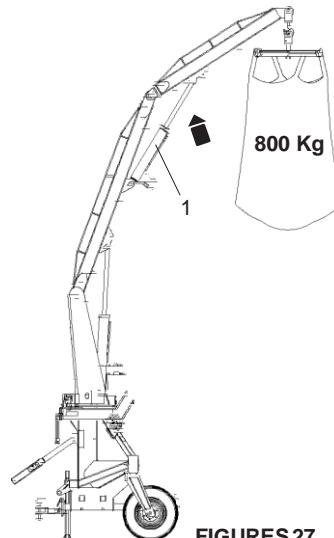
FIGURES 27



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

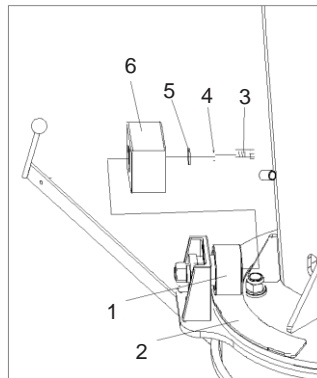
Do not exceed 800 kg at this lifting point. Ignoring this warning may result in tipping and damages to the equipment.

- 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).

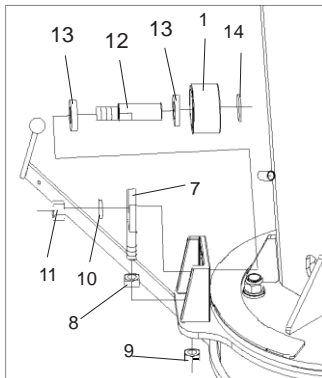


FIGURES 28



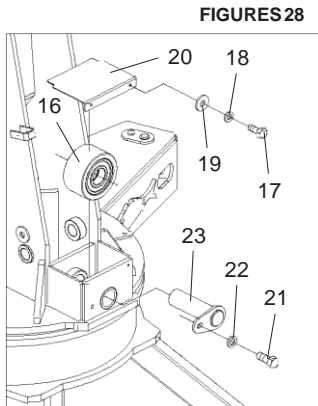
WARNING

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.

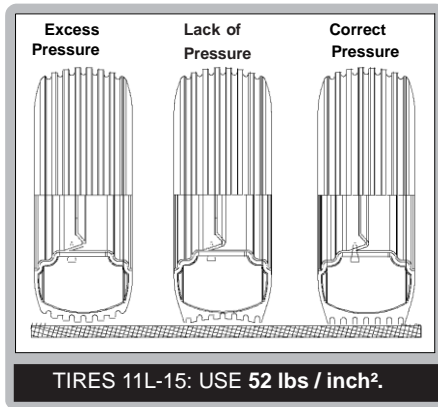


FIGURE 29

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 AGROTEX 2
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.

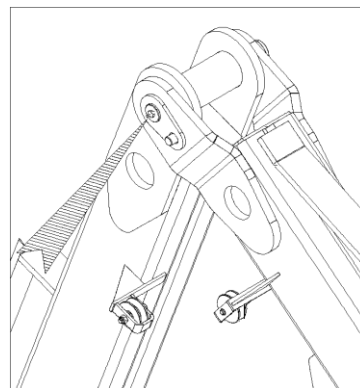
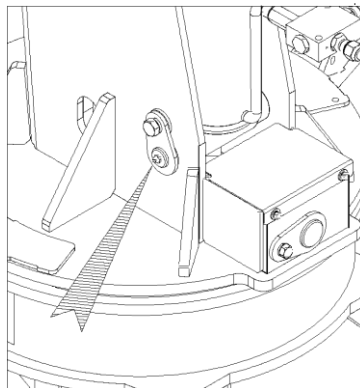
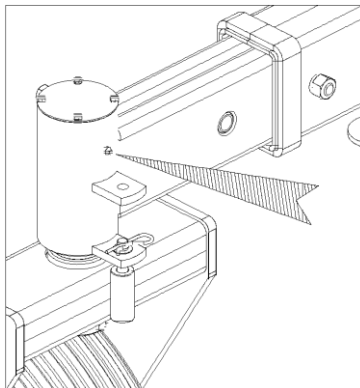




IMPORTANT

Carefully observe the lubrication intervals for each component.

LUBRICATE EVERY 10 WORKING HOURS (FIGURES 30)



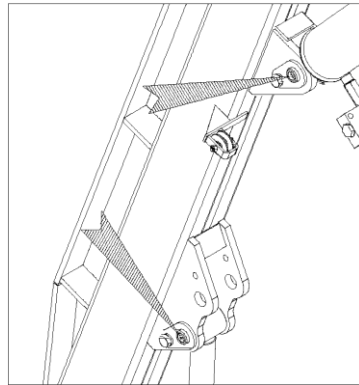
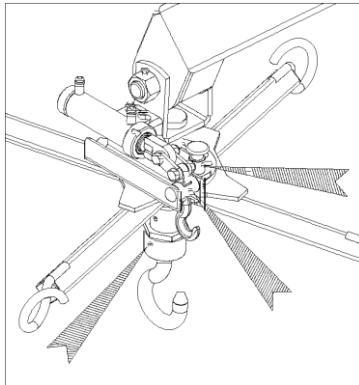
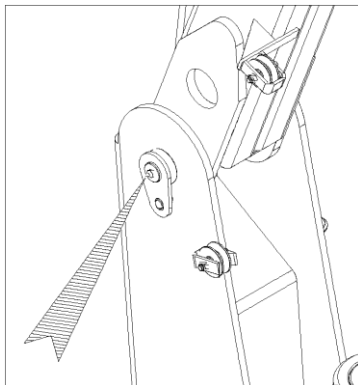
FIGURES 30



IMPORTANT

Carefully observe the lubrication intervals for each component.

LUBRICATE EVERY 10 WORKING HOURS (FIGURES 30)



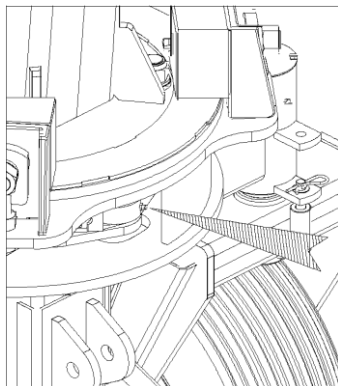
FIGURES 30



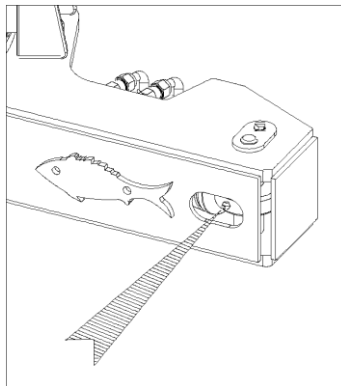
IMPORTANT

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.

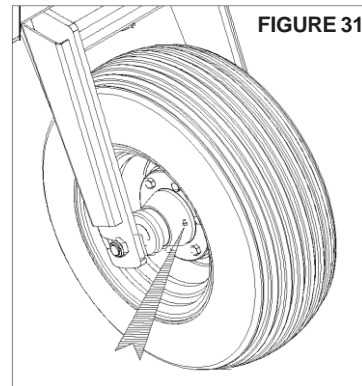


FIGURE 31

OPERATING MAINTENANCE - GTG-RO Flex

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/cm ² .
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.

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.

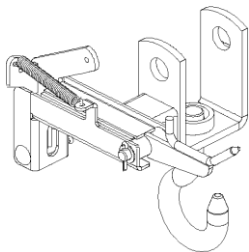


FIGURE 32

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

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

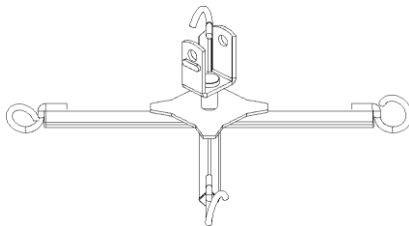


FIGURE 33

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

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

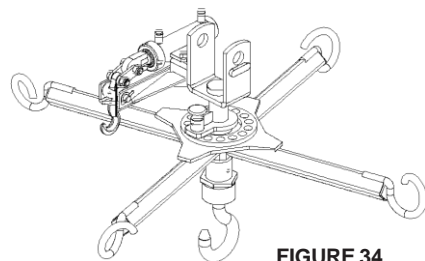


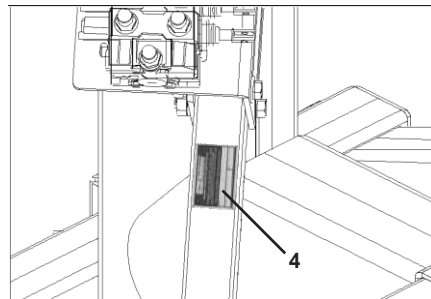
FIGURE 34

ONLY FOR TRACTOR WITH DUAL CONTROL

12 - IDENTIFICATION

1 - To consult the parts catalog or request for technical service from Baldan, always indicate the model (1), serial number (2) and date of manufacture (3) informed on the identification label (4) of the GTG-RO Flex.

2 - **ALWAYS DEMAND FOR ORIGINAL BALDAN PARTS.**



WARNING

The drawings contained in this instruction manual are merely illustrative.



Marketing
Edition of Catalogs
and Manuals

Code: 6055010229-6
Revision: 00
Publication: December 2011
CPT: GTGROFLEX02815



CONTACT

In the case of doubts consult the After Sales.
Telephone: 0800-152577
E-mail: posvenda@baldan.com.br

PRODUCT IDENTIFICATION

Identify the data below in order to always have the correct information on the life of your GTG-RO Flex.

Owner: _____

Dealer: _____

Farm: _____

City: _____ State: _____

Warranty Certificate No.: _____

Model: _____

Serial No.: _____

Date of Purchase: ____/____/____

Invoice No: _____



This image shows a single sheet of white paper with horizontal blue or grey 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.

This image shows a single sheet of white paper with horizontal blue or grey 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.





6 0 5 5 0 1 0 2 2 9 6



Baldan



BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

Av. Baldan, 1500 | Nova Matão | CEP: 15993-000 | Matão-SP | Brasil

Phone: (0**16) 3221-6500 | Fax: (0**16) 3382-6500

Home Page: www.baldan.com.br | e-mail: sac@baldan.com.br

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

e-mail: export@baldan.com.br