

Instruction Manual



GTG-RF 2000
Agricultural Mounted Hoist

■ Presentation

Wge appreciate the preference and would like to congratulate you for the excellent choice you just made, since you have acquired a product manufactured with **BALDAN**



IMPLEMENTOS AGRÍCOLAS S/A technology.

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

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

Resale was responsible for the custody and maintenance during the period in its possession, and also for the assembly, retightening, lubrication and overhaul.

During the technical delivery, dealer should guide the user client about maintenance, safety, his/her obligations in eventual technical assistance, strict compliance with the warranty term and reading the instructions manual.

Any technical assistance request while in warranty should be made to the dealer from whom you have purchased it.

We reiterate the need for a careful read of the warranty certificate and compliance of all items from this manual, because by doing so you will increase the life of your device.

Instruction Manual



GTG-RF 2000 Agricultural Mounted 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.



■ Index

BALDAN WARRANTY.....	07
GENERAL INFORMATION.....	08
<i>To the owner.....</i>	<i>08</i>
SAFETY RULES.....	09
<i>To the operator.....</i>	<i>09 – 13</i>
WARNINGS.....	14 - 15
COMPONENTS.....	16
<i>GTG-RF 2000 - Agricultural Mounted Rear</i>	<i>16</i>
DIMENSIONS.....	17
<i>GTG-RF 2000 (1st Point).....</i>	<i>17</i>
<i>GTG-RF 2000 (2nd Point).....</i>	<i>18</i>
<i>GTG-RF 2000 (General).....</i>	<i>19</i>
SPECIFICATIONS.....	20
<i>GTG-RF 2000 - Agricultural Mounted Rear</i>	<i>20</i>
ASSEMBLY.....	20
<i>Mounting the tower.....</i>	<i>21</i>
<i>Mounting the hoist arm.....</i>	<i>22</i>
<i>Mounting the wheel hub and tire.....</i>	<i>23</i>
<i>Mounting the support brackets.....</i>	<i>24</i>
<i>Mounting the hydraulic hoses.....</i>	<i>25</i>
VALVE.....	26
<i>Safety valve.....</i>	<i>26</i>
COUPLING.....	26
<i>Tractor coupling - Part I.....</i>	<i>26</i>
<i>Tractor coupling - Part II.....</i>	<i>27</i>
<i>Extender of the third point.....</i>	<i>28</i>
ADJUSTMENTS.....	29
<i>Arm height adjustment.....</i>	<i>29</i>
OPERATIONS.....	30
<i>Swivel angle.....</i>	<i>30</i>
<i>Load capacity - Part I.....</i>	<i>31</i>
<i>Load capacity - Part II.....</i>	<i>32</i>
<i>Using the swivel hook.....</i>	<i>33 - 34</i>
<i>Rear coupling.....</i>	<i>34</i>
<i>Recommendations for operation.....</i>	<i>35</i>
<i>General recommendations.....</i>	<i>35</i>
MAINTENANCE.....	36
<i>Tire pressure.....</i>	<i>36</i>
<i>Lubrication.....</i>	<i>37</i>

▪ Index

Table of greases and equivalents..... 37

Centralized lubrication system..... 37

Lubrication every 10 working hours..... 38

Lubrication every 60 working hours..... 38

Swivel hook with lock..... 39

Curved shackle..... 39

Operational maintenance..... 40

Care..... 41

General cleaning..... 41-42

Conservation of the hoist - Part I..... 42

Hold of the hoist - Part II..... 42-43

IDENTIFICATION..... **44**

Name plate..... 44

Product Identification..... 45

NOTES..... 46-47

CERTIFICATE..... **48**

Guarantee certificate..... 48-54

▪ **Baldan Warranty**

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

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

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

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

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

Any repair carried out in the product within the dealer warranty deadline will only be authorized by **BALDAN** upon previous budget presentation describing parts and workforce to be executed.

The product is excluded from this term if it is repaired or modified by representatives not belonging to the **BALDAN** dealer network, as well as the application of non-genuine parts or components to the user's product.

This warranty is void where it is found that the defect or damage is caused by improper use of the product, failure to follow instructions or inexperience of the operator.

It is agreed that this warranty does not cover tires, polyethylene tanks, cardan shafts, hydraulic components, etc., which are equipment guaranteed by their manufacturers.

Manufacturing and/or material defects, object of this warranty term, will not constitute, under any circumstances, grounds for termination of a purchase agreement, or for indemnification of any nature.

BALDAN reserves the right to change and/or perfect the technical characteristics of its products, without previous notice, and without obligation to proceed in the same way with the products previously manufactured.

▪ General Information

• To the owner

BALDAN IMPLEMENTOS AGRÍCOLAS S/A is not responsible for any damaged caused by accident due to usage, transportation, or in the improper or incorrect transportation of its implement, whether by negligence and/or inexperience of any person.

Only people with complete knowledge of the tractor and the implement should carry their transportation and operation.

BALDAN is not responsible for any damaged caused in unpredictable or unrelated situations to the normal use of the implement.

The incorrect handling of this equipment may result in severe or fatal accidents. Before starting the equipment, carefully read the instructions contained in this manual. Make sure that the person responsible for the operation is instructed as the correct and safe handling. Also make sure that the operator has read and understood the instructions manual of the product.

 **ATTENTION** | **NR-31 - SAFETY AND HEALTH AT WORK IN AGRICULTURE, LIVESTOCK FORESTRY, FOREST EXPLORATION, AND AQUACULTURE.**

This Regulatory Standard has the purpose of establishing precepts to be observed in the organization and work environment, compatible to the planning and development of agriculture, livestock, forestry, forest exploitation and aquaculture with safety and health and work environment.

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

For more information, refer to the site and read in full NR-31.
<http://portal.mte.gov.br/legislacao/normas-regulamentadoras-1.htm>

▪ Safety Rules

• To the operator



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



ATTENTION



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



ATTENTION



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



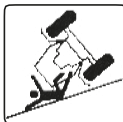
ATTENTION



Do not transport people or equipment on the tractor.



ATTENTION



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

Do not over speed.



ATTENTION



Do not work with the tractor if the front has insufficient ballast to the rear equipment. Should there be a trend to lift, add weights or ballasts to the front or the front wheels.



ATTENTION



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



ATTENTION



Be careful when handling the GTG-RF 2000 support foot, as there is a risk of accidents.

▪ Safety Rules

ATTENTION

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

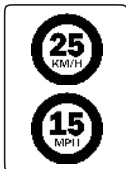
ATTENTION



Do not make settings with the GTG-RF 2000 running.

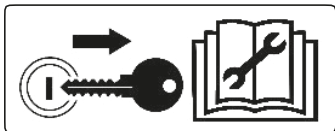
When doing any service on the GTG-RF 2000, turn off the tractor first. Use appropriate tools.

ATTENTION



When transporting the GTG-RF 2000, do not exceed the speed of 25Km/h or 15 MPH, avoiding risk of damages and accidents.

ATTENTION



Remove the ignition key before performing any maintenance on the GTG-RF 2000. Protect yourself from possible injury or death caused by an unplanned departure from the GTG-RF 2000.

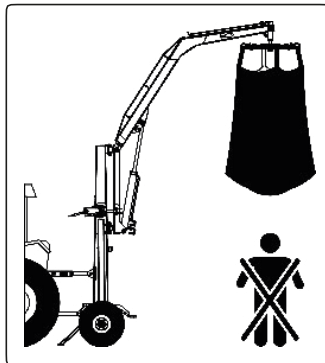
If the GTG-RF 2000 is not properly engaged, do not start the tractor.

ATTENTION



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

ATTENTION



When operating the GTG-RF 2000, do not allow people to stay too close to or below its hoisting point.

Do not exceed 2000 kg at the hoisting point.

▪ Safety Rules

 **ATTENTION** | ALCOHOLIC BEVERAGE OR SOME MEDICATIONS MAY CAUSE LOSS OF REFLEXES AND CHANGE THE OPERATOR'S PHYSICAL CONDITIONS. THEREFORE, NEVER OPERATE THIS EQUIPMENT UNDER THE USE OF THESE SUBSTITUTES.

ATTENTION



Always keep oil and/or grease away from the access and work areas as they may cause accidents.

ATTENTION



Before commencing the work or transport of the GTG-RF 2000, check for any persons or obstructions near it.

ATTENTION



Avoid heating parts near the fluid lines.

Heating may generate brittleness in the material, rupture and discharge from pressurized fluid, and may cause burns and injury.

ATTENTION



Keep the articulation area free while the GTG-RF 2000 is in operation. In tight corners, do not allow the tractor wheels to touch the head.

ATTENTION



Never weld the tire-mounted wheel, the heat may cause air pressure to rise and cause the tire to burst.

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

Always use a containment device (filling cage) to fill the tire.

ATTENTION



•Disposing of waste improperly affects the environment and ecology, as it will pollute rivers, canals or the soil.

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

PROTECT THE ENVIRONMENT!

▪ Safety Rules

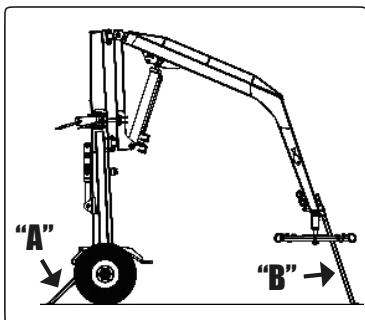
ATTENTION



Hydraulic oil under pressure can cause serious injury if debris is present.

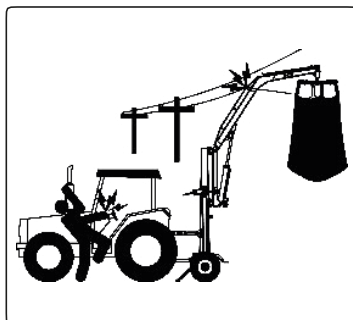
Periodically check hoses for conservation. If there are signs of leakage, replace immediately. Before connecting or disconnecting the hydraulic hoses, relieve system pressure, activating the command with the tractor switched off.

ATTENTION



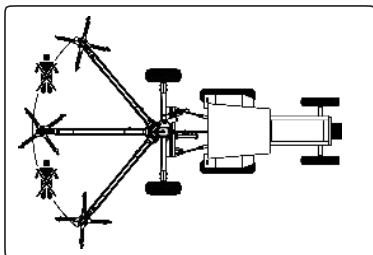
Before engaging or disengaging the GTG-RF 2000, lower front "A" and rear "B" support legs in order to keep the GTG-RF 2000 properly supported. Ignoring these warnings may cause severe accidents or death.

ATTENTION



When operating the GTG-RF 2000, stay away from power transmission lines, low tree branches and other high obstructions, avoiding serious injury or even death.

ATTENTION



When operating the GTG-RF 2000, do not let people stay close or close to it. Make sure there are no people in the arm reach of the GTG-RF 2000.

▪ Safety Rules

• PPE Equipment

! ATTENTION | DO NOT WORK WITH THE GTG-RF 2000 WITHOUT WEARING PPE (SAFETY EQUIPMENT). IGNORING THIS WARNING MAY CAUSE DAMAGE TO HEALTH, SERIOUS ACCIDENTS OR DEATH.

When performing certain procedures with the **GTG-RF 2000**, wear the following PPE (Safety Equipment):



! IMPORTANT

The safety practice must be carried out in all stages of work with GTG-RF 2000, thus avoiding accidents such as impact of objects, falls, noise, cuts and ergonomics, that is, the person responsible for operating the GTG-RF 2000 is subject to damage both internal and external to your body.

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



▪ Warnings

- ⚠ When operating with the **GTG-RF 2000**, do not let people stay close or close to it.
- ⚠ When performing any maintenance service, use PPEs equipment.
- ⚠ Before connecting or disconnecting hydraulic hoses, relief the system pressure by activating the command with the tractor power switched off.
- ⚠ Periodically check the conservation status of the hydraulic hoses. If there are indications of oil leakage, replace the hose immediately, because the oil works under high pressure and may cause serious accidents.
- ⚠ Do not wear loose clothing, as they may be caught onto the **GTG-RF 2000**.
- ⚠ When operating the tractor engine, be properly seated in the operator's seat and aware of the complete knowledge of the correct and safe handling of both the tractor and the **GTG-RF 2000**. Always put the gear shift in neutral position, unplug the power take-off gear switch and place the hydraulic controls in neutral position.
- ⚠ Do not start the motor in a closed environment or with no proper ventilation since the exhaust gases are harmful to health.
- ⚠ When maneuvering the tractor to engage the **GTG-RF 2000**, make sure you have the space required and there is no one too close, always maneuver at idle and be ready to brake in an emergency.
- ⚠ Do not make settings with the **GTG-RF 2000** running.
- ⚠ When working in sloped terrains, proceed with precautions, always trying to maintain the required stability. In case of imbalance start reduce the acceleration, turn the wheels to the slope side of the terrain and never lift the **GTG-RF 2000**.
- ⚠ Always conduct the tractor in speeds compatible to the safety, especially during works is bumpy lands or slopes, keep the tractor always engaged.
- ⚠ When driving the tractor in highways, keep the brake pedals interconnected.
- ⚠ Do not work with the tractor with light rear. If the rear has a tendency to lift, add more weights on the rear wheels.
- ⚠ When leaving the tractor, put the gear lever in neutral position and apply the parking brake. Never leave the **GTG-RF 2000** on the tractor in the raised position of the hydraulic system.
- ⚠ Any maintenance on the **GTG-RF 2000** must be done while it is stopped and with the tractor off.
- ⚠ Do not travel on highways especially at night. Use warning signs throughout the course.

▪ Warnings

- ⚠ If you need to travel with the **GTG-RF 2000** on the highways, consult the transit authorities.
- ⚠ Do not allow the use of the **GTG-RF 2000** by people who have not been trained, that is, that do not know how to operate it correctly.
- ⚠ Do not transport or work with the **GTG-RF 2000** near obstacles, rivers or streams.
- ⚠ The transportation of people on self-propelled machines and implements is forbidden.
- ⚠ Changes in the original characteristics of the **GTG-RF 2000** are not allowed, as they may change the safety, operation and affect service life.
- ⚠ Carefully read all the safety information in this manual and the **GTG-RF 2000**.
- ⚠ Explain all the procedures of this manual to the operator who cannot read.
- ⚠ Always make sure that the **GTG-RF 2000** is in perfect conditions of use. In the event of any irregularity that may interfere with the operation of the **GTG-RF 2000**, have it repaired before any work or transport.
- ⚠ Maintenance and especially inspection in hazardous areas of the **GTG-RF 2000** must be carried out only by a trained or qualified worker, observing all the safety guidelines. Before starting maintenance, disconnect all drive systems from the **GTG-RF 2000**.
- ⚠ Periodically check all components of the **GTG-RF 2000** before using it.
- ⚠ Due to the equipment used and work conditions on field or in maintenance areas, precautions are required. Baldan has no direct control over precautions, so it is the owner's responsibility to implement safety procedures while working with the **GTG-RF 2000**.
- ⚠ Check the minimum tractor power recommended for the **GTG-RF 2000**. Only use tractors with power and ballast compatible with the load and topography of the terrain.
- ⚠ During transport of the **GTG-RF 2000**, it travels at speeds compatible with the terrain and never exceeds 25Km/h, this reduces maintenance and consequently increases the service life of the **GTG-RF 2000**.
- ⚠ Alcoholic beverage or some medications may cause loss of reflexes and change the operator's physical conditions. Therefore, never operate the **GTG-RF 2000**, under the use of these substances.
- ⚠ Read or explain all the procedures of this manual to the operator who cannot read.

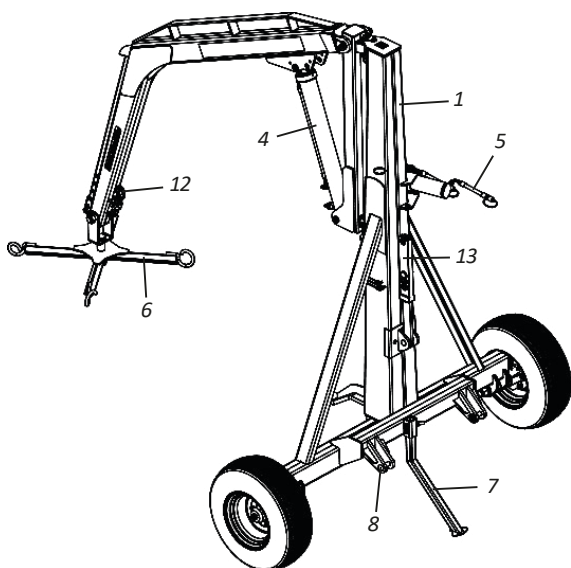
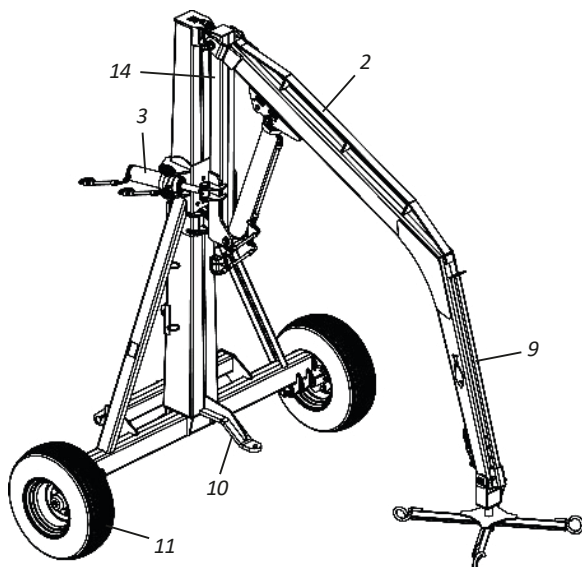
In case of doubts, refer to Post-Sales.

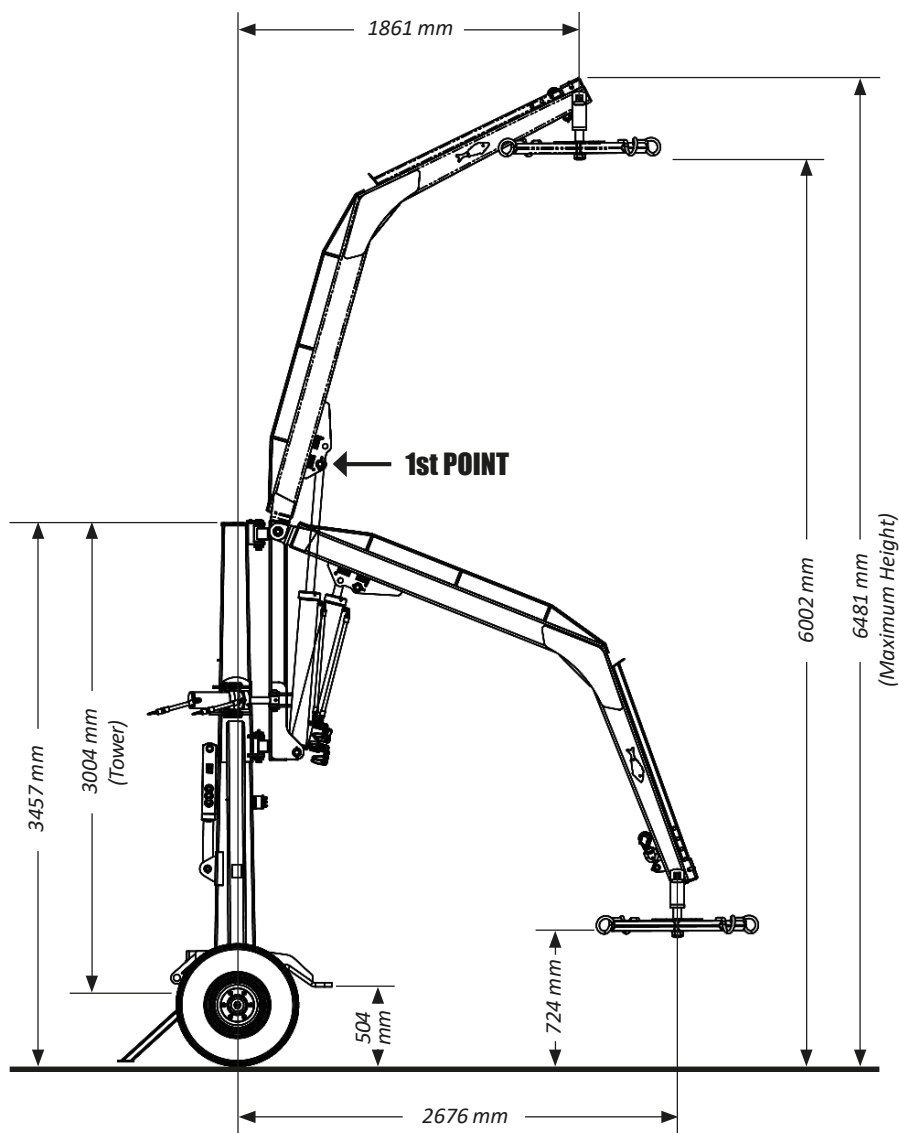
Telephone: 0800-152577 / E-mail: posvenda@baldan.com.br

■ Components

• GTG-RF 2000 - Agricultural Mounted Hoist

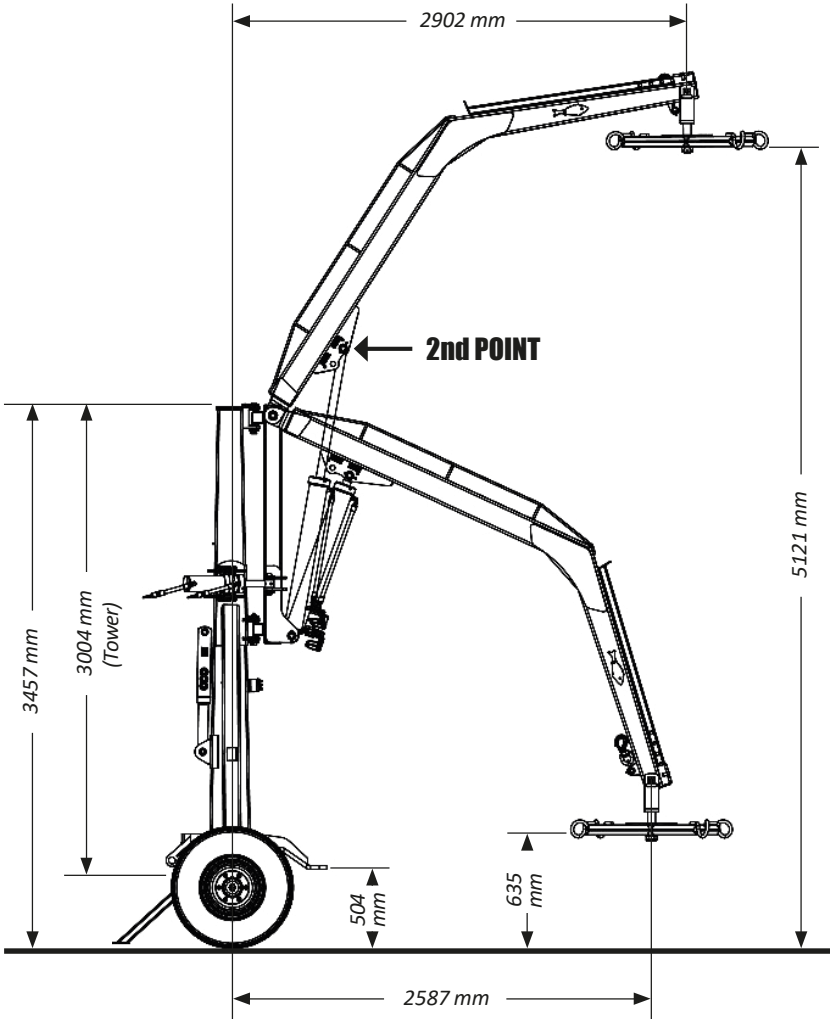
1. Framework
2. Hoist Arm
3. Hydraulic Swivel Cylinder
4. Lifting Hydraulic Cylinder
5. Hydraulic hoses
6. Big Bag Coupling
7. Rear Support Foot
8. Coupling Pin Cat. II
9. Arm Support Foot
10. Rear Coupling
11. Tires
12. Swivel Hook
13. Regulation Bar 3 ° Point
14. Swivel Stand

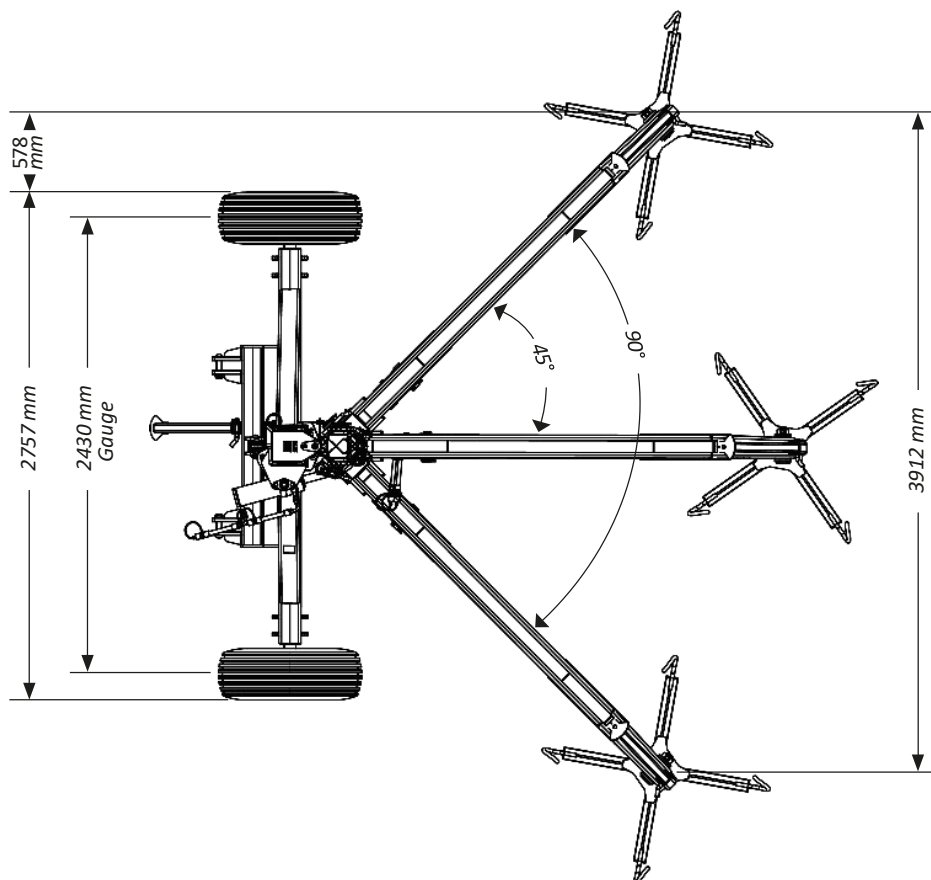


▪ Dimensions**• GTG-RF 2000 (1st Point)**

▪ Dimensions

• GTG-RF 2000 (2nd Point)



▪ Dimensions**• GTG-RF 2000 (General)**

▪ Specifications

• GTG-RF 2000 - Agricultural Mounted Hoist

Model	Turning Arc	Arm Height (mm)	Total Height (mm)	Total Width (mm)	Gauge (mm)	Ground Wheel
GTG-RF	90°	3003	6481	2757	2430	11L-15

Model	Full Height (mm)		Capacity (Kg)		Approx. Weight (Kg)	Tractor Power (CV)
	1st Point	2nd Point	1st Point	2nd Point		
GTG-RF	6002	5121	1200	2000	817	70

Baldan reserves the right to change and/or perfect the technical characteristics of its products, without previous notice, and without obligation to proceed in the same way with the products previously manufactured. Technical specifications are approximate and informed under normal work conditions.

INTENDED USE OF GTG-RF 2000

- The **GTG-RF 2000** was developed to expedite the harvesting of citrus fruits or the movement of cargo on the property.
- The **GTG-RF 2000** must be driven and operated only by a properly trained operator.

NON-ALLOWED USE OF THE GTG-RF 2000

- - To avoid damage, serious accidents or death, DO NOT transport people over any part of the **GTG-RF 2000**.
- It is NOT allowed to use the **GTG-RF 2000** to push other implements or accessories.
- The **GTG-RF 2000** must NOT be used by an inexperienced operator who is not familiar with all driving, operating and control techniques.

▪ Assembly

To facilitate loading and transport, the **GTG-RF 2000** is shipped from the factory. To assemble it, follow the instructions on the following pages:

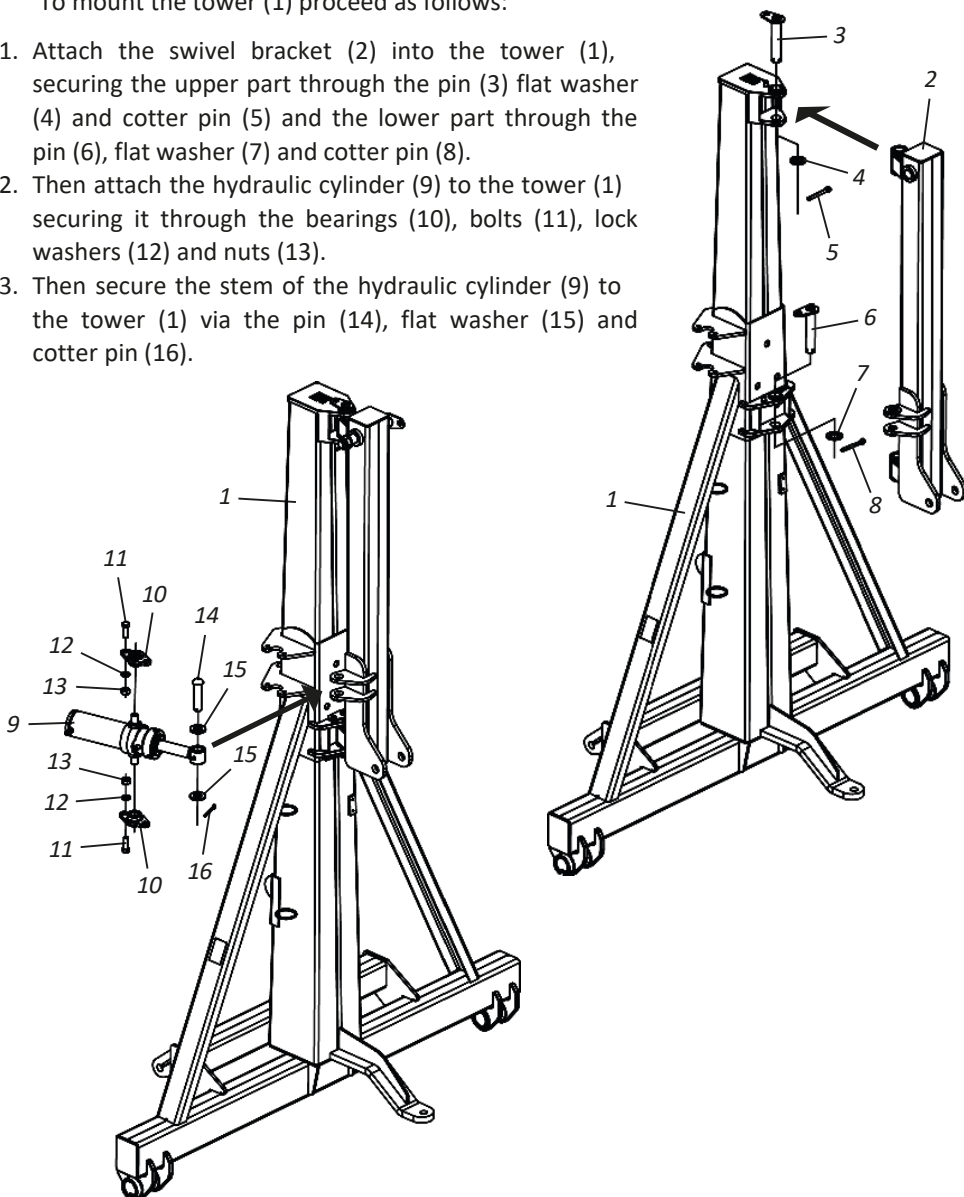
- ⚠ The assembly of the **GTG-RF 2000** must be done by reselling, through trained personnel, qualified and qualified for this work.
 - ⚠ Before starting the assembly of the **GTG-RF 2000**, find an ideal place where you can easily identify parts and assemble them.
 - ⚠ Do not wear loose clothing as they may be screwed onto the **GTG-RF 2000**.

▪ Assembly

• Mounting the tower

To mount the tower (1) proceed as follows:

1. Attach the swivel bracket (2) into the tower (1), securing the upper part through the pin (3) flat washer (4) and cotter pin (5) and the lower part through the pin (6), flat washer (7) and cotter pin (8).
2. Then attach the hydraulic cylinder (9) to the tower (1) securing it through the bearings (10), bolts (11), lock washers (12) and nuts (13).
3. Then secure the stem of the hydraulic cylinder (9) to the tower (1) via the pin (14), flat washer (15) and cotter pin (16).

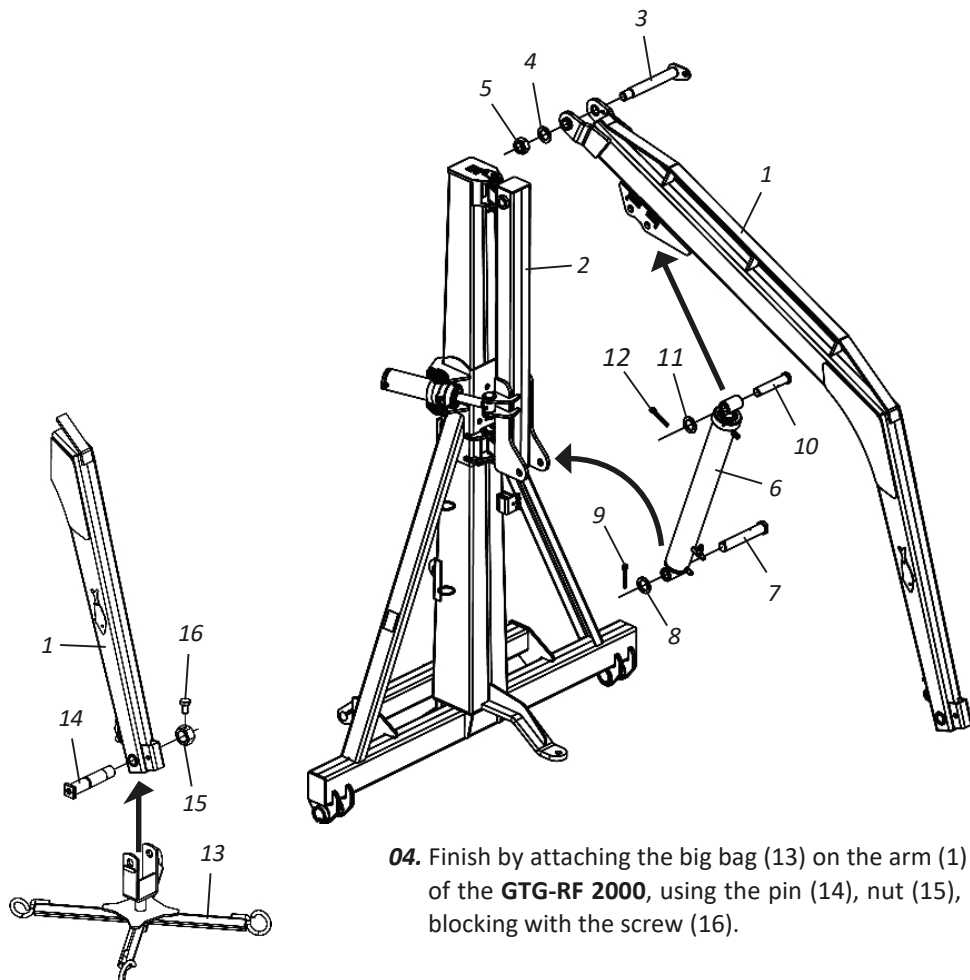


▪ Assembly

• Mounting the hoist arm

To mount the arm (1) of the **GTG-RF 2000**, proceed as follows:

1. Engage the arm (1) of the **GTG-RF 2000** on the swivel bracket (2), securing it through the pin (3), flat washer (4) and nut (5).
2. Then, place the hydraulic cylinder (6) on the swivel bracket (2) and fix it through the pin (7), flat washer (8) and cotter pin (9).
3. Then place the hydraulic cylinder (6) on the arm (1) of the **GTG-RF 2000**, securing it through the pin (10), flat washer (11) and cotter pin (12).



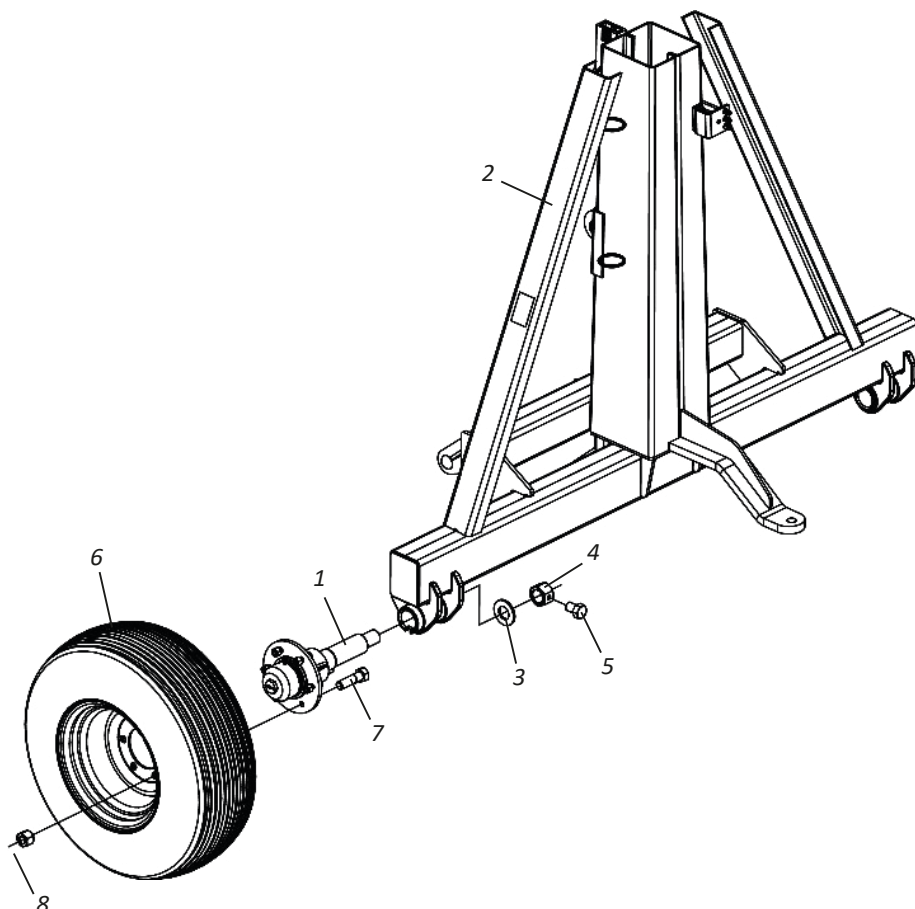
04. Finish by attaching the big bag (13) on the arm (1) of the **GTG-RF 2000**, using the pin (14), nut (15), blocking with the screw (16).

▪ **Assembly**

• **Mounting the wheel hub and tire**

To assemble the wheel hub and tire, proceed as follows:

1. Attach the wheel hub (1) to the tower (2) by securing it through the flat washer (3), nut (4) and screw (5).
2. Next, attach the tire (6) to the wheel hub (1) by securing it through the bolts (7) and nuts (8).

**NOTE**

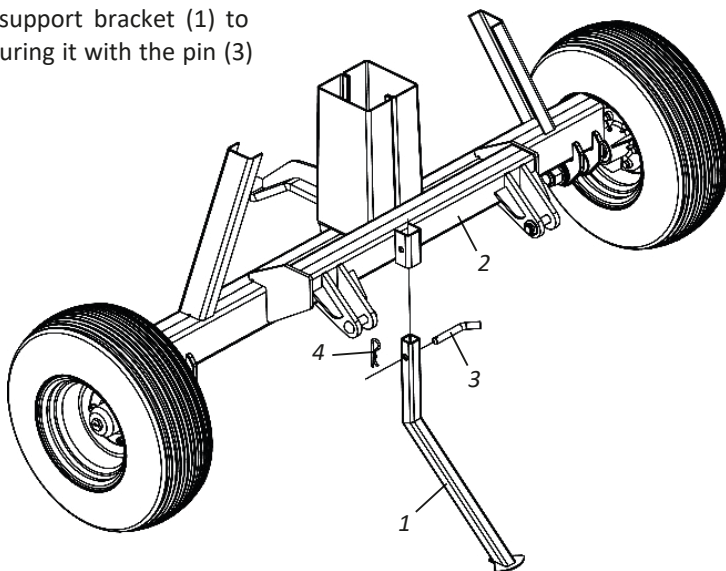
Repeat the above procedure for mounting the other wheel hub and the other tire.

■ Assembly

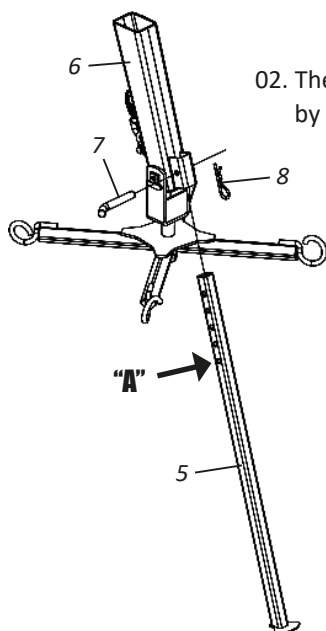
• Mounting the support brackets

To mount the front and rear support brackets, proceed as follows:

01. Attach the front support bracket (1) to the tower (2), securing it with the pin (3) and lock (4).



02. Then attach the rear support bracket (5) to the hoist arm (6) by attaching with the pin (7) and lock (8).



ATTENTION

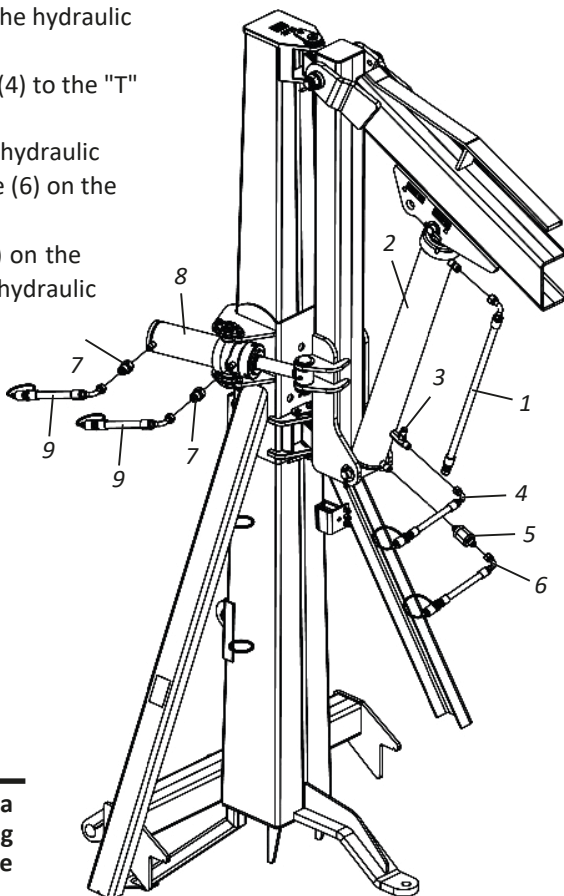
When attaching the rear support bracket (5), make the correct leveling of the hoist through the holes (A) so that it is not inclined. Ignoring these warnings may cause severe accidents.

▪ **Assembly**

• **Assembling hydraulic hoses**

To assemble the hydraulic hoses, proceed as follows:

1. Engage the hydraulic hose (1) on the hydraulic cylinder (2) and the "T" nipple (3).
2. Then, connect the hydraulic hose (4) to the "T" nipple (3).
3. Then, attach the nipple (5) on the hydraulic cylinder (2) and the hydraulic hose (6) on the nipple (5).
4. Finish by attaching the nipples (7) on the hydraulic cylinder (8) and the hydraulic hoses (9) on the nipples (7).



ATTENTION

Inside the nipple (5) there is a safety valve. Check the following page for important safety valve recommendations.

IMPORTANT

When coupling the hydraulic hoses, do not let the terminals touch the ground by contaminating them.

NOTE

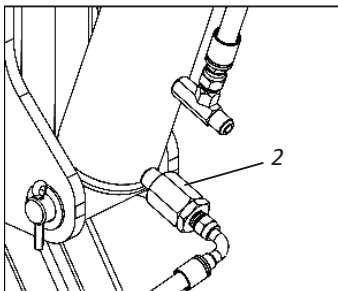
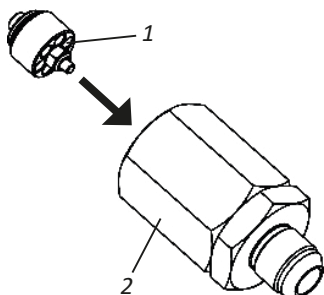
When completing the assembly of the hydraulic hoses, make an overhaul checking the tightness of all hose terminals and that they are properly installed.

▪ Valve

• Safety valve

The **GTG-RF 2000** has a factory-fitted safety valve (1) mounted inside the nipple (2). The safety valve (1) has the purpose of not letting the load fall if the hydraulic hose is broken.

SAFETY VALVE CORRECT MOUNTING POSITION



! ATTENTION

NEVER remove the safety valve (1) from the nipple (2). Ignoring this warning can cause damage, serious accidents or even death. Baldan is not liable for accidents caused by the withdrawal of the safety valve (1) from the nipple (2).

! IMPORTANT

Before starting work on the **GTG-RF 2000**, make sure that the safety valve (1) is mounted on the nipple (2), if not, install the safety valve (1). **DO NOT** work with the **GTG-RF 2000** without the safety valve (1).

▪ Hitch

• Tractor coupling - Part I

Before attaching the **GTG-RF 2000** to the tractor, check that the tractor is ready for work by observing the following items:

- ! Make sure the tractor is equipped with a set of weights or ballast on the front of it or its front or rear wheels, this will give the tractor greater stability and traction on the ground.
- ! Adjust the lower arms of the tractor.

▪ Hitch

• Tractor coupling - Part II

The **GTG-RF 2000** (1) is equipped with a support foot (2) which ensures greater ease and safety when it is time to engage and disengage the same on the tractor.

When following the instructions above, proceed as follows:

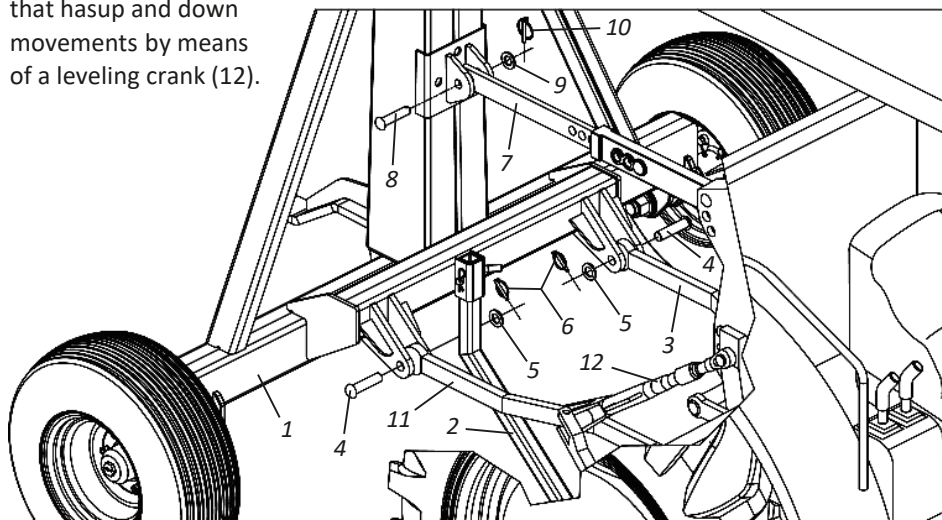
1. Slowly approach the tractor to the **GTG-RF 2000** in reverse gear, taking care to apply the brakes. Use the hydraulic position control lever as you approach the **GTG-RF 2000**, leaving the lower left arm (3) at the same level as the **GTG-RF 2000** coupling.
2. Insert the pin (4) into the **GTG-RF 2000** bracket and lock it with the flat washer (5) and lock (6).
3. Then, hook the third point extender (7) onto the header by fastening it through the pin (8), smooth it (9) and lock (10).
4. To finish, engage the lower right arm (11) that has up and down movements by means of a leveling crank (12).

! IMPORTANT

Before turning the hydraulic hoses on or off, stop the engine and relieve the pressure of the circuit by fully operating its control levers. Make sure that by relieving the pressure of the system there is no accident in moving the equipment.

NOTE

When engaging the **GTG-RF 2000**, look for a safe and easily accessible place. Always use low gear with low acceleration.



! ATTENTION

Before engaging or disengaging the rear hoist, lower the support foot so that it is properly supported. Failure to do so may result in serious injury.

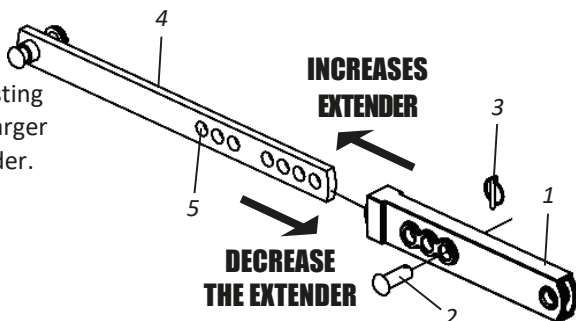
▪ Hitch

• Extender of the third point

The **GTG-RF 2000** is delivered with a third point extender (1). This extender is made to replace the third point of the tractor. This replacement is necessary because this extender has greater resistance to the tractor extender, avoiding further damage.

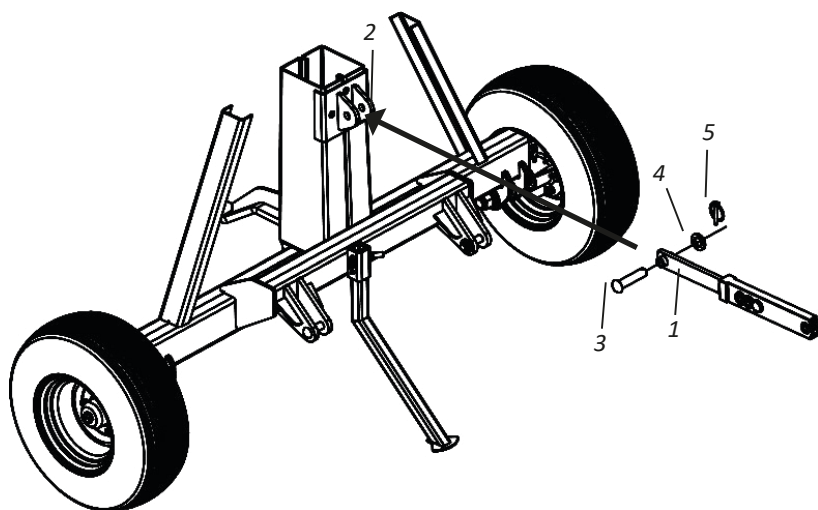
The third point extender (1) has opening and closing adjustments that provide greater ease and agility when the hoist is engaged with the tractor. To adjust this setting, proceed as follows:

01. Loosen the pin (2) and remove the lock (3).
02. Next, pull the bar (4) by adjusting through the holes (5) a larger opening or closing of the extender.



To replace the third point extender (1), proceed as follows:

01. First remove the extender from the third point of the tractor.
02. Then attach the third point extender (1) to the coupling (2) through the pin (3), flat washer (4) and lock (5).
03. Then repeat the same procedure to attach the extender to the tractor.

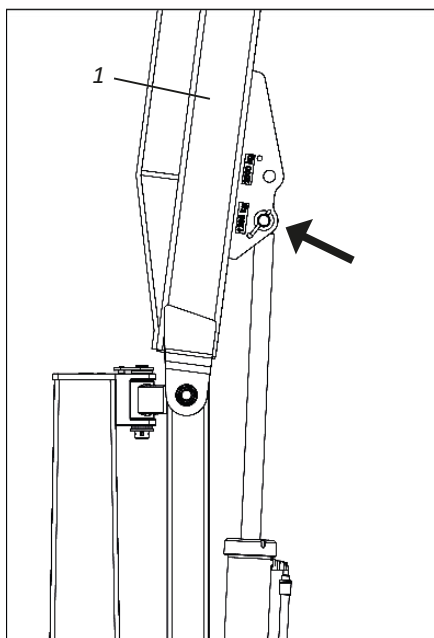
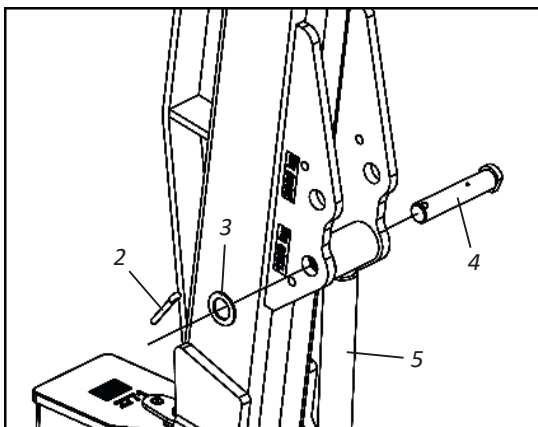


▪ Adjustments

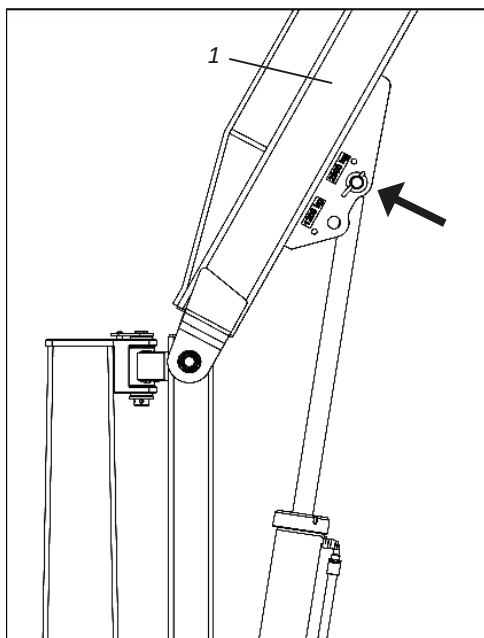
• Arm height adjustment

The **GTG-RF 2000** has an arm height adjustment system (1) that provides greater and lesser arm lift. To adjust the lift height of the arm (1) proceed as follows:

1. Loosen the cotter pin (2), remove the flat washer (3) and the pin (4).
2. Then adjust the hydraulic cylinder rod (5) to the other setting.
3. Then replace the pin (4), flat washer (3) and cotter pin (2).



HIGHER LIFT

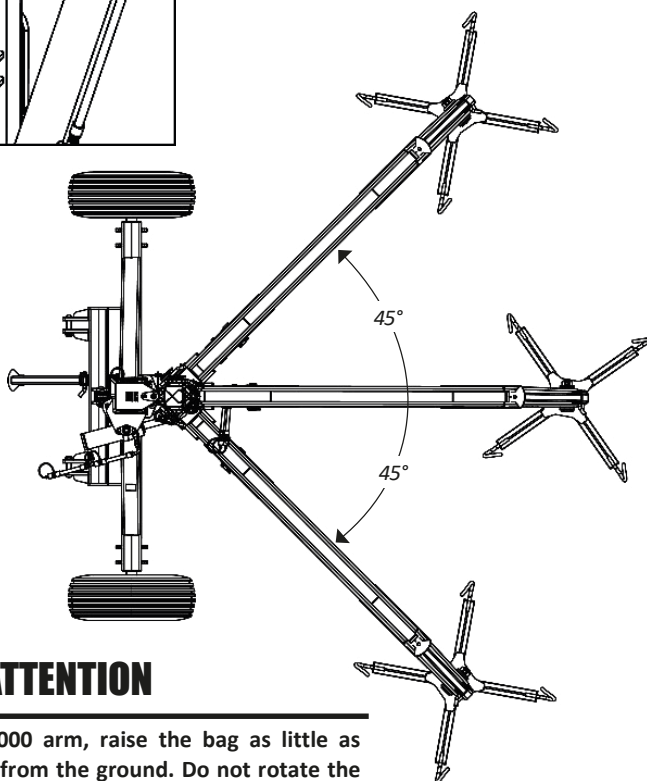
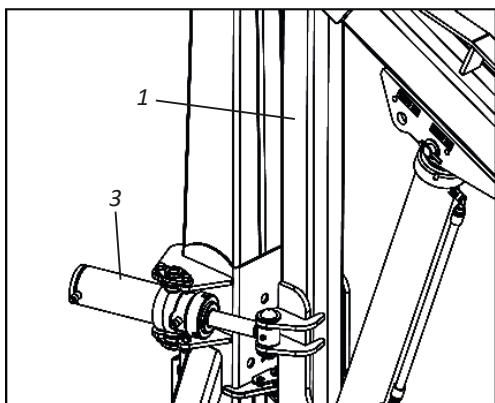


LOWER LIFT

■ Operations

• Swivel angle

The **GTG-RF 2000** has swivel bracket (1) actuated by a hydraulic cylinder (2). This system provides several angles of rotation reaching the total angle of 90° , being 45° to the right and 45° to the left, starting from the center.



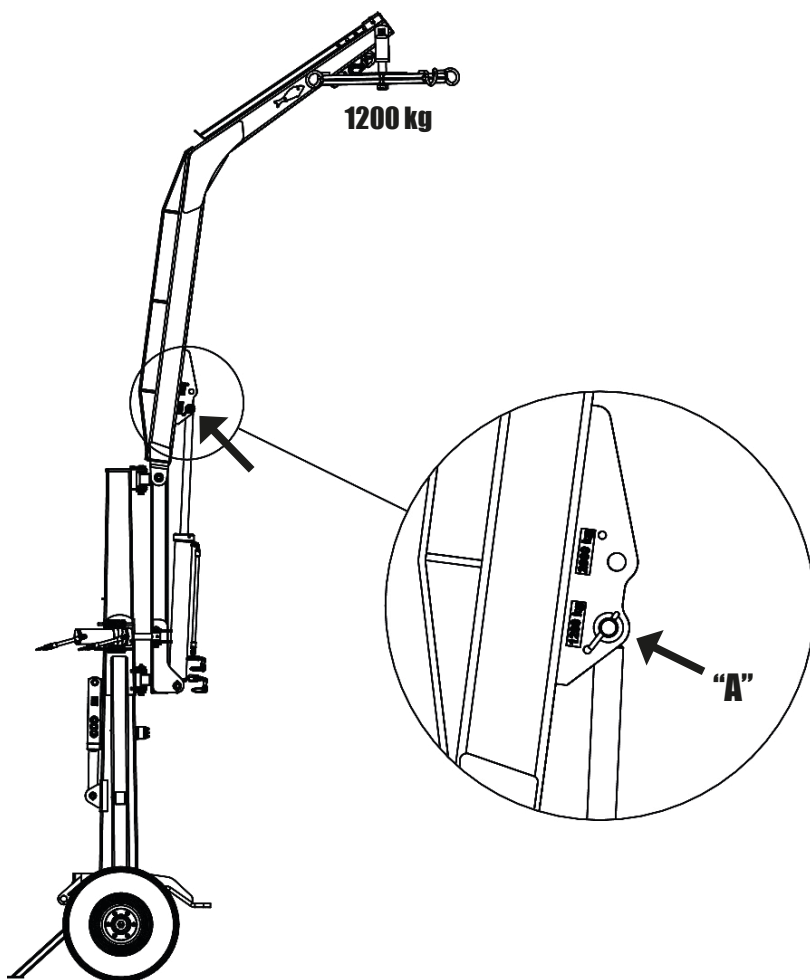
ATTENTION

When rotating the GTG-RF 2000 arm, raise the bag as little as possible, just enough to lift it from the ground. Do not rotate the arm of the GTG-RF 2000 with the raised bag. Ignoring this warning can result in serious accident or damage to the GTG-RF 2000.

■ Operations

• Load capacity - Part I

The **GTG-RF 2000** has load capacity that varies according to the lifting point. When the hydraulic cylinder (1) is open or closed at **lifting point "A"**, load capacity is 1200 kg.



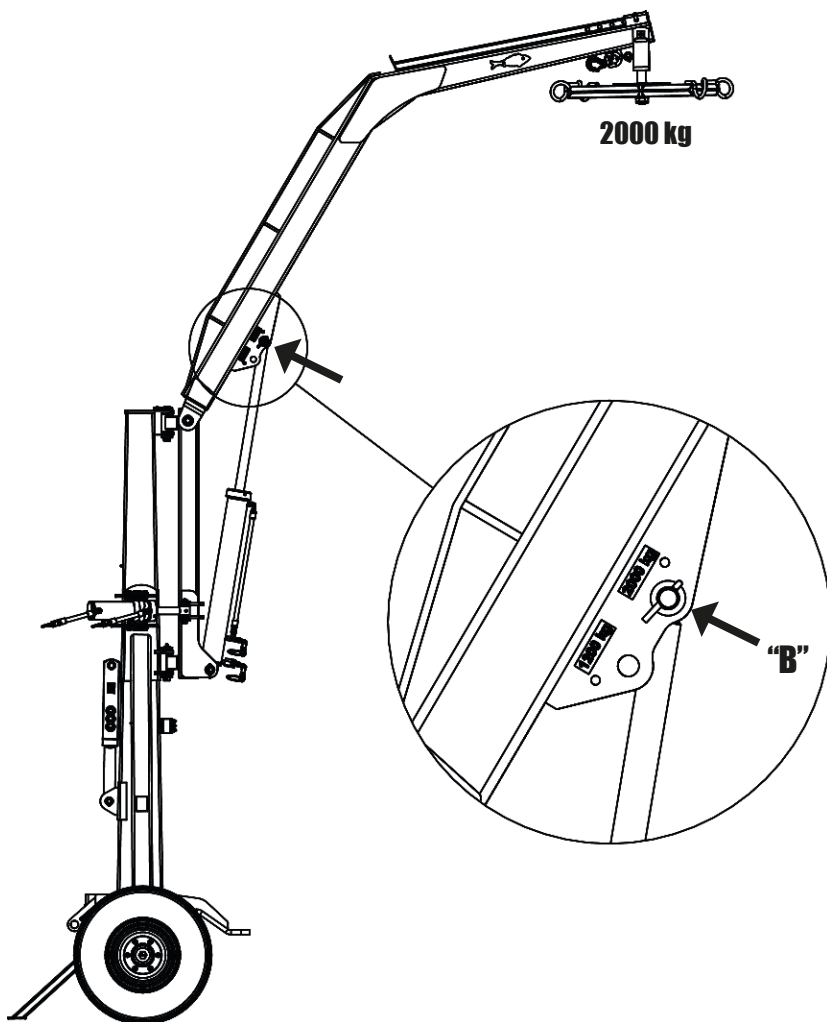
ATTENTION

DO NOT exceed 1200 kg at this lifting point. Ignoring this warning can cause tipping, serious accidents or damage to the GTG-RF 2000.

■ Operations

• Load capacity - Part II

When the hydraulic cylinder (1) is open or closed at **lifting point "B"**, the load capacity is **2000 kg**.

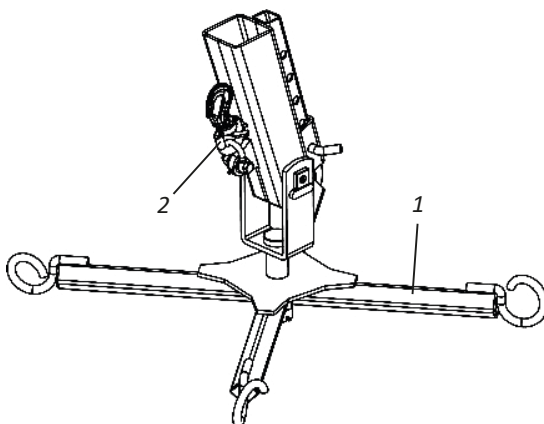


⚠ ATTENTION | DO NOT exceed 2000 kg at this lifting point. Ignoring this warning can cause tipping, serious accidents or damage to the GTG-RF 2000.

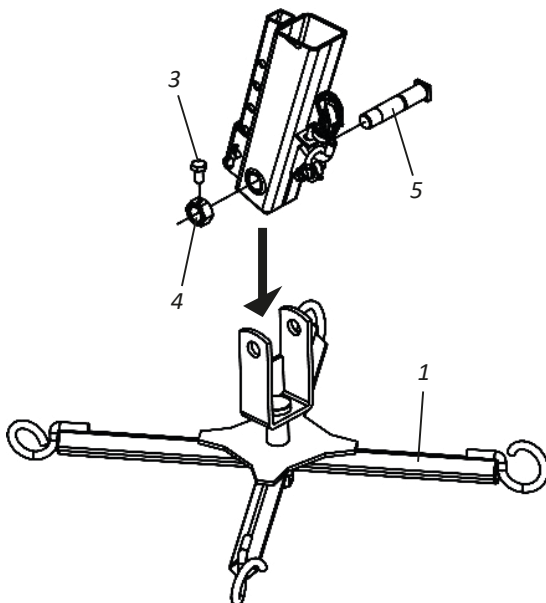
■ Operations

• Using the swivel hoist

The **GTG-RF 2000** has a big bag coupling (1) and swivel hoist (2). Depending on the work to be carried out, the big bag coupling (1) must be removed and the swivel hoist (2) must be used. Proceed as follows:



01. Loosen the bolt (3), nut (4), pin (5) and remove the big coupling (1).



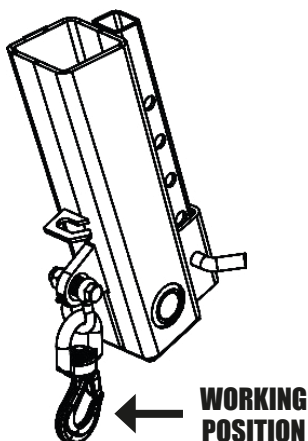
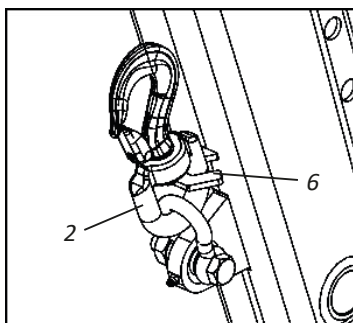
ATTENTION

Before removing the big bag coupling (1), turn off the tractor completely, use parking brake and adjust the tires.

■ Operations

• Using the swivel hoist

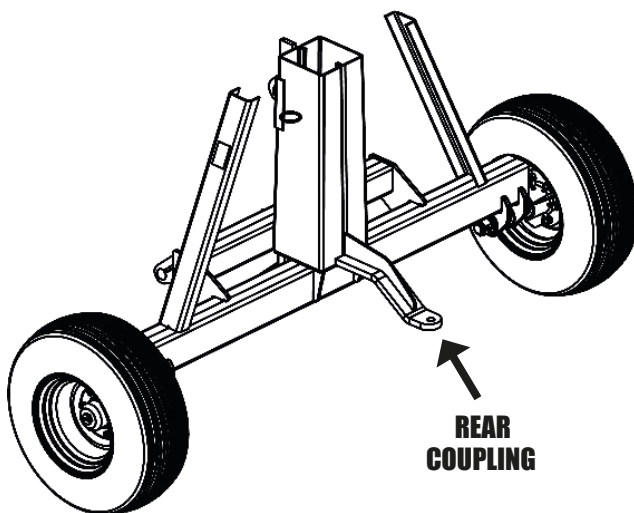
02. Then, release the swivel hoist (2) from the lock (6), leaving it in the working position.



NOTE When finishing the work with the swivel hoist (2), replace it in the lock (6) and secure the big bag (1) again.

• Rear Coupling

The **GTG-RF 2000** has a rear coupling (1) that provides the transport of trolleys without the need to uncouple it.



▪ **Operations**

• **Recommendations for the operation**

The preparation of the **GTG-RF 2000** and the tractor will allow you to save time in addition to a better result in the field work. The following suggestions may be useful for you.

GENERAL RECOMMENDATION

1. - Before starting work, make a complete revision of the **GTG-RF 2000**. In this review, lubricate all the points, tighten the nuts and bolts, check the locking of the pins and cotter pins, check the condition of the hoses and the calibration of the tires.
2. - Make sure that the **GTG-RF 2000** operator is trained and qualified for the jobs.
3. - Adjust the tractor according to the content of the instruction manual, always using front and rear weights to stabilize the equipment.
4. - Always couple to the tractor in low gear and very carefully.
5. - Do not uncouple any hose without first relieving the circuit pressure by turning the control levers a couple of times with the engine off.
6. - When transporting the **GTG-RF 2000**, always keep it level.
7. - Respect the transport speed specified on page 10. We do not advise you to exceed the speed to avoid possible damage to the **GTG-RF 2000**.
8. - The **GTG-RF 2000** has several settings but only local conditions can determine the best setting.
9. - The **GTG-RF 2000** has a full 90° (90 degree) turning angle. Do not exceed the operating angle.
10. - During work do not let people or animals stay within the turning radius of the **GTG-RF 2000**.
11. - Do not exceed the limits of the load capacity at the lifting points.
12. - When performing any maintenance on the **GTG-RF 2000**, the engine must be switched off.

**If in doubt, never operate or handle the GTG-RF 2000, see the Post Sale.
Telephone: 0800-152577 / E-mail: posvenda@baldan.com.br**

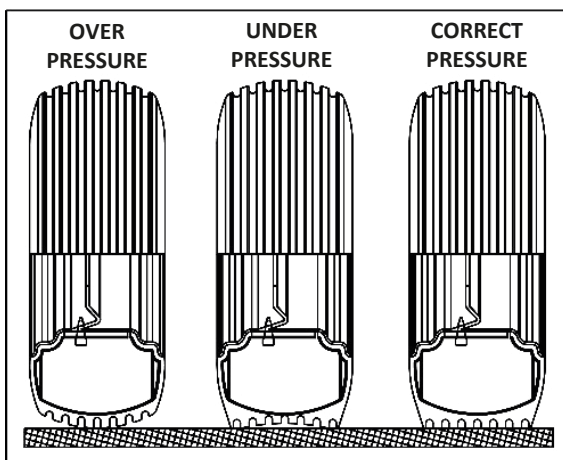
▪ Maintenance

The **GTG-RF 2000** is designed to provide you with maximum performance over terrain conditions. Experience has shown that periodic maintenance of certain parts of the **GTG-RF 2000** is the best way to help you to have no problems, so we suggest verification.

• Tires pressure

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

TIRES 11L-15 X 12 PLY



USE: 52 LBS/POL²

ATTENTION

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

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

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

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

IMPORTANT

When calibrating tires, do not exceed the recommended calibration.

NOTE

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

▪ Maintenance

• Lubrication

Lubrication is indispensable for good performance and longer service life of the **GTG-RF 2000**'s moving parts, contributing to the maintenance cost savings.

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

• Table of greases and equivalents

Manufacturer	Types of grease recommended
Petrobrás	Lubrax GMA-2
Atlantic	Litholine MP 2
Ipiranga	Ipiflex 2
Castrol	LM 2
Mobil	Grease MP
Texaco	Marfak 2
Shell	Alvania EP 2
Esso	Multi H
Bardahl	Maxlub APG-2EP
Valvoline	Palladium MP-2

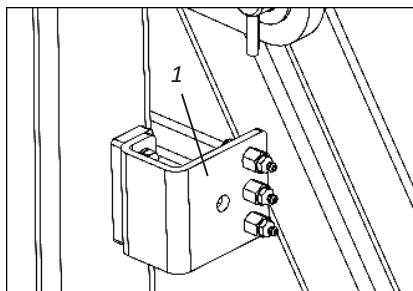
ATTENTION

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

• Centralized lubrication system

The **GTG-RF 2000** has a unique centralized lubrication system (1), which makes maintenance quicker and easier, allowing lubrication of the highest points of the hoist, without having to climb, avoiding accidents.

Before starting lubrication, wipe all grease fittings with a lint-free cloth and replace them with a damaged cloth.

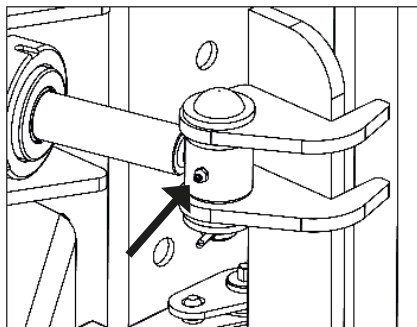
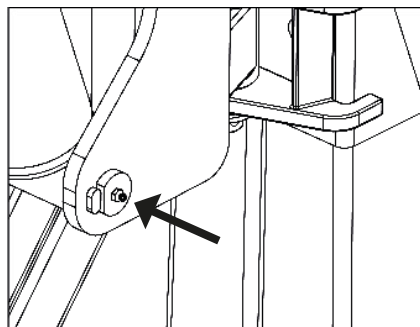
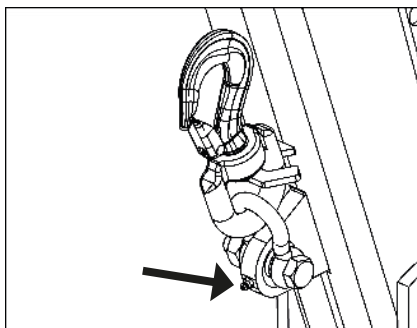
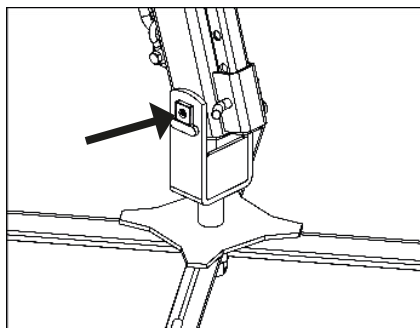


ATTENTION

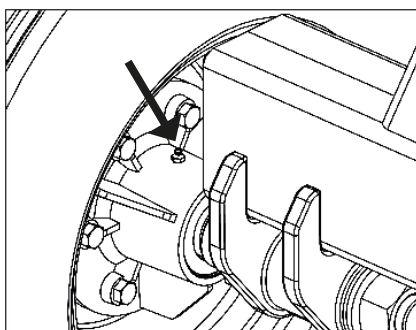
Lubricate all centralized grease fittings every 10 working hours.

▪ Maintenance

- Lubrication every 10 hours of work



- Lubrication every 60 hours of work



ATTENTION | When lubricating the GTG-RF 2000, do not exceed the amount of new grease. Insert a sufficient quantity.

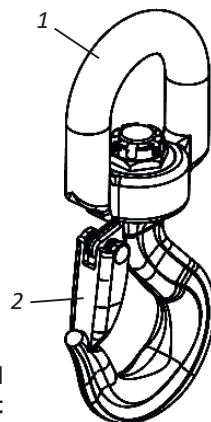
▪ Maintenance

• Swivel hook with lock

The **GTG-RF 2000** has a rotating hook (1) with a lock (2) that obeys the most rigid safety standards. If for any reason it is necessary to purchase a swivel hoist (1) with lock (2), it must meet all the requirements below:

REQUIREMENTS FOR THE ROTATING HOOK WITH LATCH:

- 1st - Load capacity: 2 Tons.
- 2nd - Minimum safety factor: 4:1
- 3rd - Quality Certificate.
- 4th - Report of mechanical tests performed by the IPT or some other body that is accredited by IMMETRO to carry out these tests.
- 5th - All parts must have markings for traceability.



ATTENTION

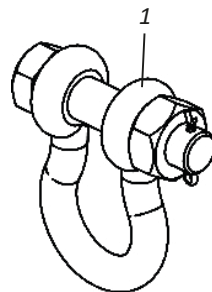
Baldan is **NOT** liable for accidents caused by the use of lockable swivel hoist that does not meet the above requirements.

• Curved shackle

The **GTG-RF 2000** has a curved shackle (1) that complies with the strictest safety standards. If for any reason there is a need to purchase a curved shackle (1), it should meet all the requirements below:

REQUIREMENTS FOR CURVED SHACKLE:

- 1st - Maximum working load: 2 Tons.
- 2nd - Minimum safety factor: 4:1
- 3rd - Certificate of Quality.
- 4th - Report of mechanical tests performed by the IPT or another body accredited by IMMETRO to carry out these tests.
- 5th - All parts must have markings for traceability.



ATTENTION

The Baldan **DO NOT** take responsibility for accidents caused by the use of curved shackles that do not meet the above requirements.

■ Maintenance

• Operational maintenance

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Tires are damaged.	Work area with rocks, stubs or crop remains with stems that shred the tire.	Eliminate the elements that cause tire damage before the GTG-RF 2000 use period.
	Improper tire pressure, creating deformations.	Maintain proper tires pressure.
Weird noise on wheels.	Loosen wheels or gap in wheel hub.	Retighten the wheel nuts and adjust wheel hub bearings.
	Breaking of bearings.	Identify the occurrence and replace damaged parts.
Quick coupling is not fitting.	Couplings of different types.	Change them for males and females of the same type.
Leakage in hydraulic hose	Lack of sealing material on the thread.	Use sealing tape and retighten carefully.
	Insufficient tightening.	Retighten carefully.
	Damaged repairs.	Replace hubs.
Leakage in quick couplings.	Insufficient tightening.	Retighten carefully without excess.
	Damaged repairs.	Replace hubs.
Quick coupling is not coupling.	Couplings of different brands.	Use a quick coupling of the same brand.
	Mixing of needle-type coupling with sphere-type coupling.	Always use quick coupling of the same type.
	Pressure on the system.	Relief the pressure to couple.
Hydraulic cylinder leakage.	Damaged repairs or rods.	Replace repairs or rods.
	Impure oil.	Replace oil, repairs, and filter elements.
	Working pressure higher than recommended.	Adjust the control via the relief valve with the aid of a pressure gauge. Normal pressure 180 kg/cm ² .

▪ Maintenance

• Cares

1. - Before each work, check the condition of all hoses, pins, locks, screws and nuts. Where necessary, retighten them.
2. - Travel speed must be carefully controlled according to the terrain conditions.
3. - The **GTG-RF 2000** is used in many applications, requiring knowledge and attention during its handling.
4. - Only local conditions can determine the best operation method of **GTG-RF 2000**.
5. - When assembling or dismantling any part of the **GTG-RF 2000**, employ appropriate methods and tools.
6. - Tighten the nuts daily during the first week of use. After releasing periodically.
7. - Switch off the tractor completely, use the parking brake and put the tires on. Secure the **GTG-RF 2000** firmly before any maintenance.
8. - Do not repair the hydraulic system while it is pressurized or when the hydraulic cylinders are under load, avoiding serious accidents or even death.
9. - Carefully observe the lubrication intervals at the various lubrication points of the **GTG-RF 2000**. Respect the lubrication intervals.
10. - After all maintenance, store the **GTG-RF 2000** in a safe and appropriate place. Keep the **GTG-RF 2000** properly supported through the front and rear support feet.
11. - Always check if the parts have wears. If replacement is required, always demand Baldan original parts.



IMPORTANT

Adequate and periodic maintenance is necessary to ensure the long life of the **GTG-RF 2000**.

▪ Maintenance

• General Cleaning

- 01** - When storing the **GTG-RF 2000**, make a general cleaning and wash it thoroughly with water only. Make sure the paint has not worn out, if it has happened, give a general coat, pass the protective oil and fully lubricate the **GTG-RF 2000**. Do not use burned oil or other abrasive.

▪ Maintenance

• General Cleaning

2. - Fully lubricate the **GTG-RF 2000**. Check all moving parts of the **GTG-RF 2000**, if any wear or gaps occur, make the necessary adjustment or replacement of the parts, leaving the hoist ready for the next job.
3. - After all maintenance work, store the hoist in a covered, dry place, properly supported.
Avoid: - The hydraulic hoses should be properly capped.
4. - When connecting or disconnecting the hydraulic hoses, do not let the ends touch the ground. Before connecting the hydraulic hoses, wipe the connections with a clean, lint-free cloth. **Do not use tow!**
5. - Replace all stickers, especially those that are damaged or missing. Make everyone aware of the importance and risks of accidents when instructions are not followed.
6. - After all maintenance, store your **GTG-RF 2000** on a surface that is, in a covered and dry place, away from animals and children.
7. - We recommend washing the **GTG-RF 2000** with water only at the start of work.



ATTENTION

Do not use chemicals or abrasives to wash the GTG-RF 2000, this may damage the paint and adhesives.

• Hoist Conservation - Part I

To extend the service life and appearance of the **GTG-RF 2000** for longer, follow the instructions below:

1. - Wash and clean all components of the **GTG-RF 2000** during and at the end of the work season.
2. - Use neutral products to clean the **GTG-RF 2000**, following the safety and handling guidelines provided by the manufacturer.
3. - Always carry out maintenance during the periods indicated in this manual.

• Hoist Conservation - Part II

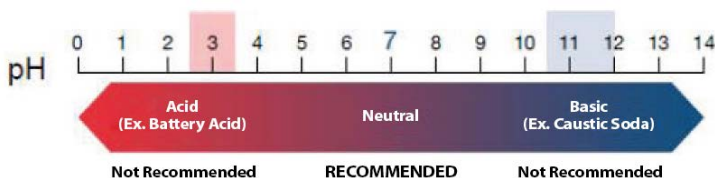
The practices and precautions below if adopted by the owner or operator make the difference for the conservation of **GTG-RF 2000**.

- 01** - Be careful when performing high-pressure washing; do not direct the water jet directly into the connectors and electrical components. Isolate all electrical components;

■ Maintenance

2. - Use only NEUTRAL detergent and water (pH equal to 7);
3. - Apply the product, following the manufacturer's instructions strictly, on the wet surface and in the correct sequence, respecting the time of application and washing;
4. - Stains and dirt not removed with the products should be removed with the aid of a sponge.
5. - Rinse the machine with clean water to remove any chemical residues.
6. - Do not use: - Detergents with a basic active ingredient (pH greater than 7) can damage the painting of the hoist.

- Detergents with acid active ingredient (pH less than 7), act as stripper/remover of zinc coating (the protection of parts against oxidation).



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



ATTENTION

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



IMPORTANT

We recommend the following protective oils:

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



NOTE

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

▪ Identification

• Identification plate

To consult the parts catalogue or request Baldan's technical assistance, always identify the model (1), serial number (2) and manufacture date (3), which can be found on the **GTG-RF 2000** identification plate.



ATTENTION

The drawings in this Instruction Manual are merely illustrative.



CONTACT

In case of doubts, never operate or handle your equipment without referring to Post-Sales.

Telephone: 0800-152577

e-mail: posvenda@baldan.com.br



PUBLICATIONS

Code: 60550108340 | CPT: GTGRF08316



▪ Identification**• Product identification**

Please make the correct identification of the data below, to always have information about the service life of your equipment.

Owner: _____

Dealer: _____

Property: _____

City: _____

State: _____

Certificate of Warranty no.: _____

Implement: _____

Serial No.: _____

Purchase Date: _____

Invoice: _____

This image shows a single 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.

■ Notes

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.

BALDAN IMPLEMENTOS AGRÍCOLAS S/A ensures the dealer normal performance of the implement for a period of six (6) months as of the delivery date on the retail invoice to the first final consumer. During this period, **BALDAN** undertakes to repair defects in material and/or of manufacture of its liability, including labor, freight and other expenses of the dealer's liability.

In the warranty period, request and replacement of eventual defective parts shall be made to the dealer of the area, who will submit the faulty piece for **BALDAN** analysis. When this procedure is not possible and the resolving capacity of the dealer is exhausted, the dealer will request the support of **BALDAN Technical Assistance** through a specific form distributed to dealers. After analyzing the replaced items by Baldan Technical Assistance, and concluding that it is not a warranty, then the dealer will be responsible for the costs related to the replacement; as well as material expenses, travel including accommodation and meals, accessories, lubricant used and other expenses arising from the call out to Technical Assistance, and Baldan company is authorized to carry the respective invoice in the name of the resale. Any repair carried in the product within the dealer warranty deadline will only be authorized by **BALDAN** upon previous budget presentation describing parts and work to be performed.

The product is excluded from this term if it is repaired or modified by representatives not belonging to the **BALDAN** dealer network, as well as the application of non-genuine parts or components to the user's product. This warranty is void where it is found that the defect or damage is caused by improper use of the product, failure to follow instructions or inexperience of the operator.

It is agreed that this warranty does not cover tires, polyethylene tanks, cardan, hydraulic components, etc., which are equipment guaranteed by their manufacturers. Manufacturing and/or material defects, object of this warranty term, will not constitute, under any circumstances, grounds for termination of a purchase agreement, or for indemnification of any nature.

BALDAN reserves the right to change and/or perfect the technical characteristics of its products, without previous notice, and without obligation to proceed in the same way with the products previously manufactured.

▪ Inspection and Delivery Certificate

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

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

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

Implement: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer: _____

Telephone: _____ CEP: _____

City: _____ State: _____

Owner: _____ Telephone: _____

Address: _____ Number: _____

City: _____ State: _____

Email: _____

Sale date: _____

Signature / Dealer Stamp _____

▪ Inspection and Delivery Certificate

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

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

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

Implement: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer: _____

Telephone: _____ CEP: _____

City: _____ State: _____

Owner: _____ Telephone: _____

Address: _____ Number: _____

City: _____ State: _____

Email: _____

Sale date: _____

Signature / Dealer Stamp _____

2nd copy - Dealer

▪ Inspection and Delivery Certificate

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

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

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

Implement: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer: _____

Telephone: _____ CEP: _____

City: _____ State: _____

Owner: _____ Telephone: _____

Address: _____ Number: _____

City: _____ State: _____

Email: _____

Sale date: _____

Signature / Dealer Stamp _____

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

1.74.05.0059-5

AC MATÃO
ECT/DR/SP

RESPONSE CARD

NO STAMPING IS REQUIRED

THE STAMP WILL BE PAID BY:



BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

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

Brazil Tel: (16) 3221-6500 | Fax: (16) 3382-6500

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

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

email: export@baldan.com.br



Avenida Baldan, 1500
Nova Matão
15.993-900
Matão/SP - Brasil
sac@baldan.com.br
export@baldan.com.br

+55 16 3221 6500
baldan.com.br