

# ***Instruction Manual***



## **PAM 500**

Agricultural Front Attachments for Tractors





# ■ Presentation

**W**e appreciate your preference and congratulate you for the excellent choice you have just made, as you have purchased a product manufactured with **BALDAN**

**IMPLEMENTOS AGRÍCOLAS S/A** technology.



This manual will guide you through the necessary procedures, from purchase to operation, safety and maintenance procedures.

**BALDAN** warrants that it has delivered this implement for resale complete and in perfect condition.

The dealer was responsible for the storage and conservation during the period it was in its possession, as well as for the assembly, retightening, lubrication and general overhaul.

In technical delivery, the dealer should guide the user customer regarding maintenance, security, their obligation to possible technical assistance, the strict observance of the warranty and reading the instructions manual.

Any request for technical assistance under warranty must be made to the dealer where it was purchased

We reiterate the need for a careful reading of the warranty certificate and for compliance with all items in this manual, as doing so will increase the life of your implement.

# ***Instruction Manual***



## **PAM 500**

Agricultural Front Attachments for Tractors

---

**BALDAN IMPLEMENTOS AGRÍCOLAS S/A.**

CNPJ: 52.311.347/0009-06

Insc. Est.: 441.016.953.110



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

 **BALDAN**

## ▪ Index

<b>BALDAN WARRANTY .....</b>	<b>07</b>
<b>GENERAL INFORMATION .....</b>	<b>08</b>
<i>To the owner .....</i>	<i>08</i>
<b>SAFETY RULES.....</b>	<b>09</b>
<i>To the operator .....</i>	<i>09 - 11</i>
<b>WARNINGS .....</b>	<b>12 - 13</b>
<b>COMPONENTS.....</b>	<b>14</b>
<i>PAM 500 - Agricultural Front Attachments for Tractors (BT System) .....</i>	<i>14</i>
<b>DIMENSIONS .....</b>	<b>15</b>
<i>Loading and unloading angles .....</i>	<i>15</i>
<b>SPECIFICATIONS.....</b>	<b>16</b>
<i>PAM 500 - Agricultural Front Attachments for Tractors .....</i>	<i>16</i>
<b>ASSEMBLY .....</b>	<b>17</b>
<i>Wrench.....</i>	<i>17</i>
<i>Preparing the tractor.....</i>	<i>17</i>
<i>Assembling side frames - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive and Massey 3400 (3406, 3407, 3408, 3409) bomba trator.....</i>	<i>18</i>
<i>Assembling side frames - Massey 3300 (3306, 3307, 3308) tractor pump.....</i>	<i>19</i>
<i>Assembling exhaust extension - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive and Massey 3400 (3406, 3407, 3408, 3409) tractor pump .....</i>	<i>20</i>
<i>Assembling components.....</i>	<i>21</i>
<i>Assembling hidraulic drive (Attaching on the side) - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive and Massey 3400 (3406, 3407, 3408, 3409) tractor pump.....</i>	<i>21</i>
<i>Assembling hydraulic drive (Attaching on the side) - Massey 3300 (3306, 3307, 3308) tractor pump.....</i>	<i>22</i>
<i>Assembling joystick fixation bracket (Optional) - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive and Massey 3400 (3406, 3407, 3408, 3409) tractor pump .....</i>	<i>23</i>
<i>Assembling joystick fixation bracket (Optional) - Massey 3300 (3306, 3307, 3308) tractor pump.....</i>	<i>24</i>
<i>Assembling joystick fixation plate (Optional) .....</i>	<i>25</i>
<i>Assembling joystick (Optional) - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive and Massey 3400 (3406, 3407, 3408, 3409) tractor pump .....</i>	<i>26</i>
<i>Assembling joystick (Optional) - Massey 3300 (3306, 3307, 3308) tractor pump.....</i>	<i>27</i>
<i>Assembling hydraulic system of the mobile support - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive, Massey 3400 (3406, 3407, 3408, 3409) tractor pump and Massey 3300 (3306, 3307, 3308) tractor pump.....</i>	<i>28</i>
<i>Assembling hydrylic system Baldan drive to tractor drive - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive, Massey 3400 (3406, 3407, 3408, 3409) tractor pump and Massey 3300 (3306, 3307, 3308) tractor pump.....</i>	<i>29</i>
<i>Assembling tractor's fuel filter on PAM 500 - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive, Massey 3400 (3406, 3407, 3408, 3409) tractor pump and Massey 3300 (3306, 3307, 3308) tractor pump .....</i>	<i>30 - 31</i>
<i>Assembling mobile support .....</i>	<i>32 - 33</i>
<i>Assembly hydraulic shovel.....</i>	<i>34</i>

## ■ Index

Assembling the blade .....	35
<b>ADJUSTMENTS .....</b>	<b>36</b>
Adjusting tractor track width.....	36
Adjusting blade cutting depth .....	36
Adjusting drive pressure.....	37
<b>SYSTEMS .....</b>	<b>38</b>
Joystick .....	38
<b>OPERATIONS.....</b>	<b>38</b>
Recomendações para operação.....	38
Joystick control (Optional).....	39
Optional accessory exchange system.....	40 - 41
Detaching from tractor .....	42 - 43
Operational care.....	44
Tractor .....	44 - 45
Correct use .....	46
Hydraulic shovel .....	46 - 47
Blade .....	48
BIG BAG - Hoist .....	49
<b>MAINTENANCE .....</b>	<b>50</b>
Lubrication .....	50
Table of greases and equivalents .....	50
Lubricate every 10 hours of work .....	51
Hydraulic shovel (Opcional) .....	52
Blade (Optional).....	52
Operational maintenance .....	53 - 54
Care .....	54
General cleaning .....	55
Conservation of the PAM 500 .....	55 - 56
<b>OPTIONAL.....</b>	<b>57</b>
Optional system .....	57
Optional accessories.....	57 - 58
<b>IDENTIFICATION .....</b>	<b>59</b>
Identification plate.....	59
Product Identification.....	60
<b>NOTES.....</b>	<b>61</b>
<b>CERTIFICATE.....</b>	<b>62</b>
Certificate of warranty .....	62 - 68

## ▪ **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.**

The purpose of this Regulatory Standard is to establish the precepts to be observed in the organization and in the work environment, in a manner compatible with the planning and development of agriculture, livestock, forestry and aquaculture activities with the safety and health and environment 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



### **ATTENTION**

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.



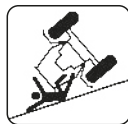
### **ATTENTION**



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 in your equipment, make sure it is properly stopped. Avoid being run over.

## ▪ Safety rules

### **ATTENTION**

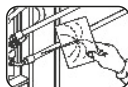


Do not make adjustments with the PAM 500 in operation.

When servicing the PAM 500 turn off the tractor first.

Use proper tools.

### **ATTENTION**



When checking hoses for leaks, use a piece of cardboard or wood, never use your hands.

Avoid incising fluid into the skin.

### **ATTENTION**



When transporting the PAM 500 do not exceed a speed of 16 km/h or 10 MPH, avoiding the risk of damage and accidents.

### **ATTENTION**

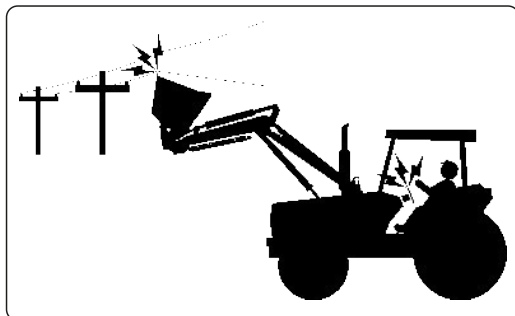


Pressurized hydraulic oil may cause serious injury if leaks occur.

Check the conservation status of the hoses from

time to time. If there is evidence of leaks, replace them immediately. Before connecting or disconnecting hydraulic hoses, relieve system pressure by activating the drive with the tractor turned off.

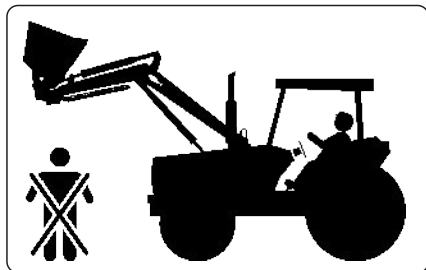
### **ATTENTION**



When maneuvering the PAM 500 in the elevated position, watch out for power lines, telephone lines, low tree branches and other overhead obstructions. Ignoring this warning could result in serious accidents, injury or even death.

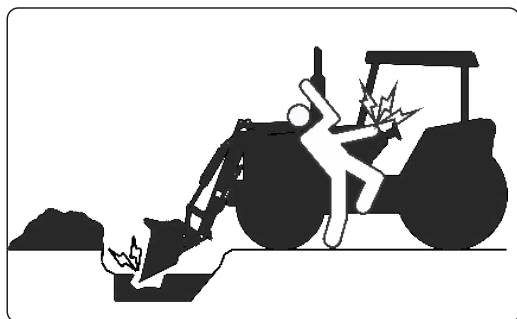
## ▪ Safety rules

### **ATTENTION**



















When operating the PAM 600/1100, do not allow people to stand too close or particularly under it. Ignoring this warning could result in serious accidents, injury or even death.

### **ATTENTION**
















Before digging, make sure there are no underground water or electricity pipes. To avoid personal injury or death, **DO NOT** leave the driver's seat if any part of the loader comes into contact with an electrical cable. Move the tractor away from the electric cable before leaving the tractor.

## ▪ Warnings

-  When operating with the PAM 500 do not allow people to stand too close or on top of it.
-  When carrying out any maintenance service, use the PPE equipment.
-  Before connecting or disconnecting hydraulic hoses, relieve system pressure by activating the drive with the tractor turned off.
-  Check the condition of the hydraulic hoses from time to time. If there is evidence of oil leakage, replace the hose immediately as the oil works under high pressure and may cause serious accidents.
-  Do not wear loose clothing, as they may become entangled in the PAM 500.
-  When starting the tractor engine, be properly seated in the operator's seat and acknowledge the correct and safe handling of both the tractor and the PAM 500. Always place the gearshift lever in the neutral position, disconnect the control gear from the PTO and place the hydraulic controls in the neutral position.
-  Do not start the tractor engine indoors, without adequate ventilation, as the exhaust fumes are harmful to health.
-  When maneuvering the tractor to the PAM 500 hitch, make sure you have the necessary space and that no one is too close, always maneuver at idle speed and be prepared to brake in an emergency.
-  Do not make adjustments with the PAM 500 in operation.
-  When working on slopes, proceed with care, always maintaining the required stability. In the event of imbalance, reduce the acceleration, turn the wheels to the side of the slope and never raise the PAM 500.
-  Always drive the tractor at speeds compatible with safety, particularly when working on rough terrain or on slopes keep the tractor in gear at all times.
-  When driving the tractor on roads, keep the brake pedals interlocked.
-  Do not work with the tractor with a light rear end. If the rear tends to lift, add more weight to the rear wheels.
-  When leaving the tractor, place the gearshift lever in neutral position and set the parking brake. Never leave the PAM 500 hitched to the tractor in the raised position of the hydraulic system.
-  All and any maintenance on the PAM 500 must be performed with the equipment stationary and the tractor turned off.
-  Do not leave the seat before locking the controls to prevent any movement.

## ▪ Warnings

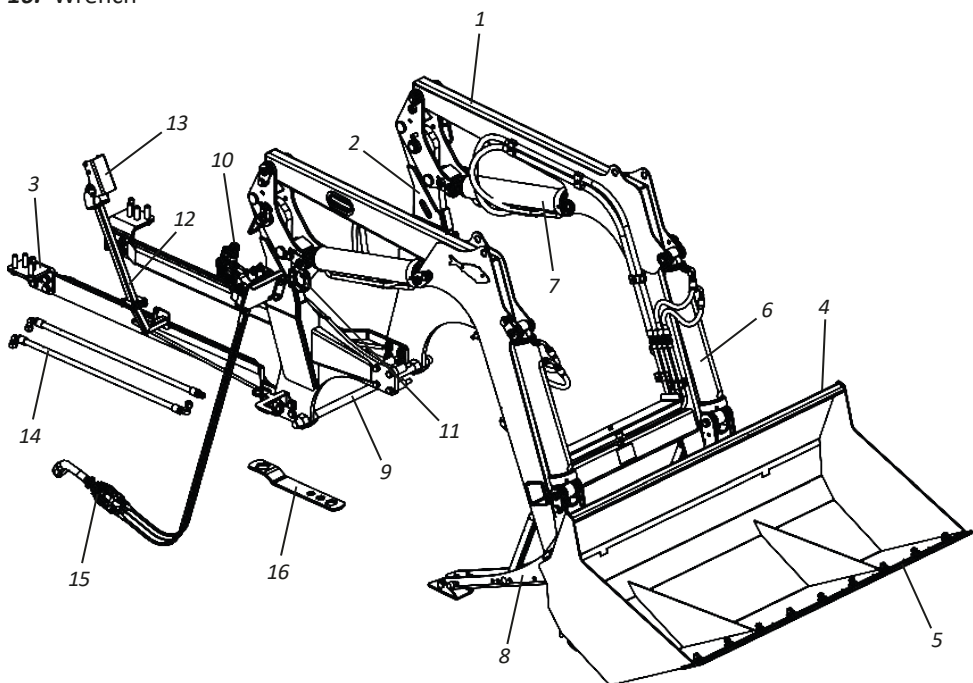
-  Operate the PAM 500 from the driver's seat only. Do not release controls until movements are complete.
-  Do not leave the tractor while the shovel or any other accessory is raised. After using the shovel or any other accessory, park the tractor with the shovel or any other accessory lowered on the ground.
-  Do not let anyone near the shovel or any other accessories when they are in operation.
-  Restrict all movement while the load is being lifted as the tractor could become unbalanced.
-  The maximum permissible front axle load recommended by the tractor manufacturer must not be exceeded.
-  The maximum front tire load recommended by the tire manufacturer must not be exceeded.
-  Check tire pressure on a regular basis.
-  Check for the presence of safety pins and screws on a regular basis. Do not replace with other objects such as nails, wires, etc.
-  In operations where the PAM 500 must be stationary, activate the locking system on the joystick.
-  Never modify hose connections.
-  The warranty is immediately rendered null and void if the instructions for assembly, adjustments, operation and maintenance of the PAM 500 are not observed.
-  Alcoholic beverages or some medications may cause loss of reflexes and alter the operator's physical condition. Therefore, never operate this equipment under the influence of these substances.
-  Read or explain all the procedures in this manual to a user who cannot read.

If in doubt, contact After Sales.  
Telephone: 0800-152577 / E-mail: posvenda@baldan.com.br

## ■ Components

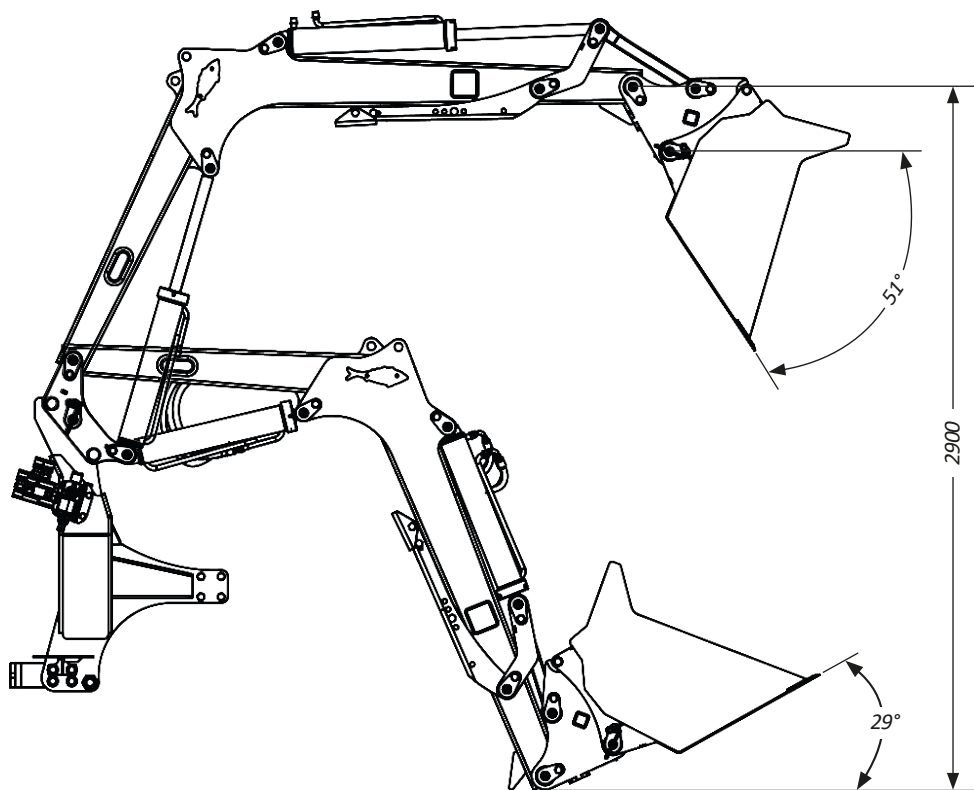
### • PAM 500 - Agricultural Front Attachments for Tractors (BT System)

1. Mobile support
2. Side frame
3. Back shoe
4. Hydraulic shovel
5. Shovel blade
6. Hydraulic tipping cylinder
7. Hydraulic lifting cylinder
8. Support footing
9. Rod
10. Hydraulic drive
11. Exhaust adapter
12. Joystick support
13. Joystick fixation plate
14. Hidraulic hoses
15. Joystick
16. Wrench



## ▪ Dimensions

- Loading and unloading angles



### **NOTE**

The lift height of the PAM 500 may have slight variations from tractor to tractor due to the tire model and tractor block height in relation to the ground.  
The inclination angle of the PAM 500 may have slight variations from tractor to tractor due to equipment positioning and lift height.

## ▪ Specifications

### • PAM 500 - Agricultural Front Attachments for Tractors

Model	Total Width (mm)	Capacity		Maximum Load (kg)	Lift Height (mm)
		(m <sup>3</sup> )	(liters)		
<b>PAM 500</b>	1600	0,400	400	800	2900 (*)

*(\*) The lift height of the PAM 600 may have slight variations from tractor to tractor due to the tire model and tractor block height in relation to the ground.*

*Baldan reserves the right to change and/or improve the technical characteristics of its products, without prior notice, and without obligation to do so with previously manufactured products. Technical specifications are estimates and reported under normal working conditions.*

## INTENDED USE OF PAM 500

- The **PAM 500** has been developed to provide greater usability to compact and subcompact tractors ( fruit trees), increasing their use and performance in everyday tasks. Its use ranges from leveling to high complexity works with transport and Big Bag loading.
- The **PAM 500** must be driven and operated only by a properly instructed operator.

## PROHIBITED USE OF PAM 500

- It is NOT allowed to use the **PAM 500** to attach, tow or push other implement or accessories.
- The **PAM 500** must NOT be used by an inexperienced operator who is not familiar with all the driving, control and operation techniques.



## ▪ **Assembly**

The **PAM 500** leaves the factory semi assembled, lacking the assembly of some components. To assemble it, follow the instructions below:

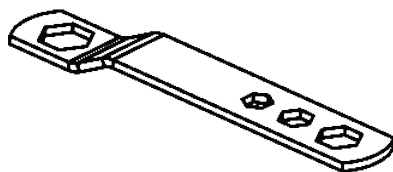
⚠ The **PAM 500** must be assembled by the reseller, through a person trained to do this task.

⚠ Before starting assembling the **PAM 500** find an ideal place where you can easily identify parts and assemble them

⚠ Do not wear loose clothes, as they may become snagged on the **PAM 500**.

### • **Wrench**

When assembling, disassembling or during the maintenance of the **PAM 500**, use the wrench that comes with the modulated agricultural shovel.



**1 1/4" X 1" X 3/4" X 5/8" HEX NUT  
WRENCH**

**⚠ ATTENTION** | If a wrench is lost or damaged, purchase another one immediately. Always use original Baldan wrenches.

### • **Preparing the tractor**

Before assembling the **PAM 500** remove the front counterweights from the tractor. On some tractor brands or models, it is also necessary to remove the front support and the original exhaust adapter from the tractor so that after assembling the side frames, the user may attach the Baldan exhaust adapter shipped in the packaging box.



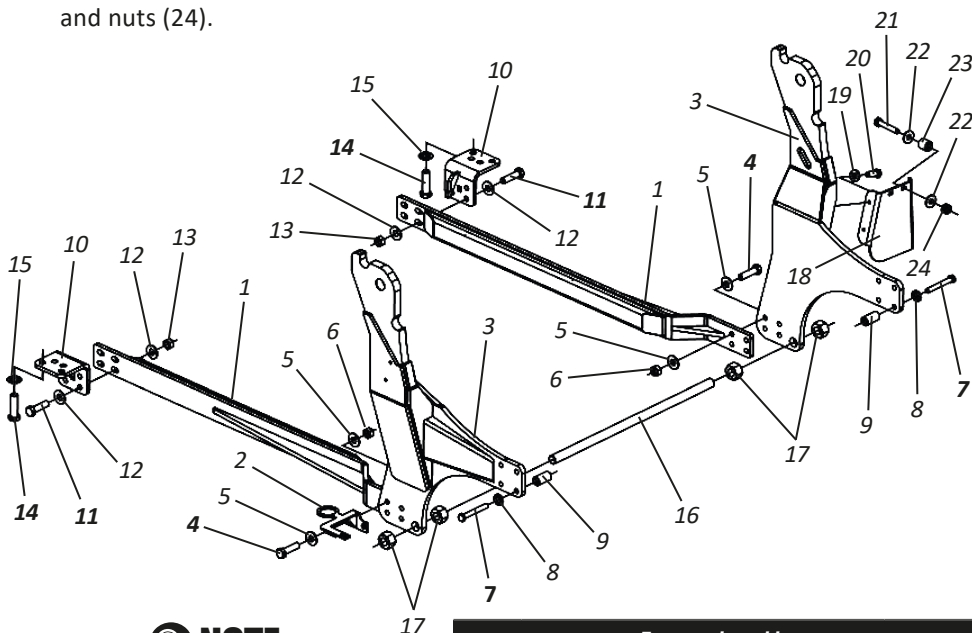
For each tractor brand or model, the counterweights and front support are different.  
To assemble the Baldan exhaust adapter, proceed as instructed on the next page.

## ■ Assembly

### • Assembling side frames - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive and Massey 3400 (3406, 3407, 3408, 3409) tractor pump

To assemble the side frames, proceed as follows:

- 01** - Couple the stabilizer bar (1) and the exhaust pipe support (2) to the frame (3) fixing it using screws (4), flat washers (5) and nuts (6).
- 02** - Then, couple the frames (3) to the tractor, using the screws (7), spring washers (8) and bushings (9).
- 03** - Secure the shoes (10) to the stabilizer bars (1) using screws (11), flat washers (12), nuts (13) and to the tractor using the screws (14) and flat washers (15).
- 04** - Lock the frames (3) using a rod (16), nuts and locknuts (17).
- 05** - Secure the filter bracket (18) to the frame (3), using flat washers (19), screws (20) and secure to the filter bracket (18) the screws (21), flat washers (22), bushing (23) and nuts (24).



## NOTE

The exhaust bracket 2 will be fixed to the frame 3 on the right side from behind the tractor.

The attachment of the side frames may vary according to the tractor model.

**Torque value table**

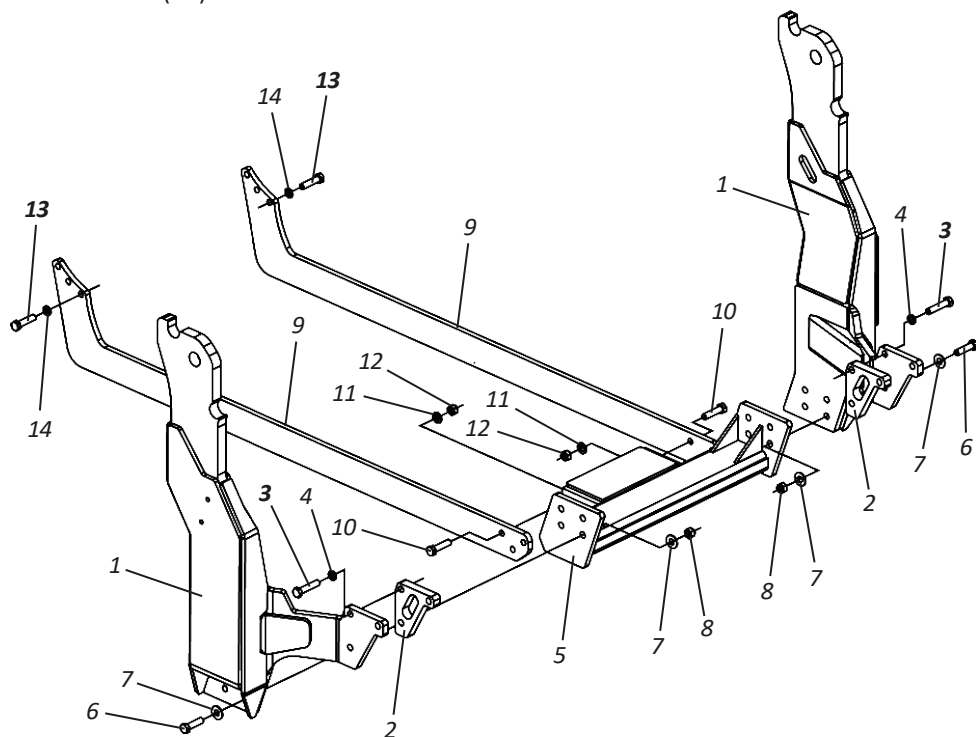
Items	Screws	Torques
4	M16 x 2 x 60mm hex-head screw	280 N.m
7	M16 x 2 x 120mm hex-head screw	280 N.m
11	M16 x 2 x 60mm hex-head screw	280 N.m
14	M20 x 2.50 x 70mm hex-head screw	550 N.m

## ▪ Assembly

### • Assembling side frames - Massey 3300 (3306, 3307, 3308) tractor pump

To assemble the side frames, proceed as follows:

- 01** - Attach the frames (1) to the tractor, securing using the retaining bushing (2), screws (3) and spring washers (4).
- 02** - Lock the frames (1) through the lower frame (5), screws (6), flat washers (7) and nuts (8).
- 03** - Then attach the fixing plates (9) to the lower frame (5), securing using screws (10), flat washers (11), nuts (12) and to the tractor using the screws (13) and spring washers (14).



## NOTE

Before attaching the screws 13 to the side plate, remove the original screws from the tractor.

**Torque value table**

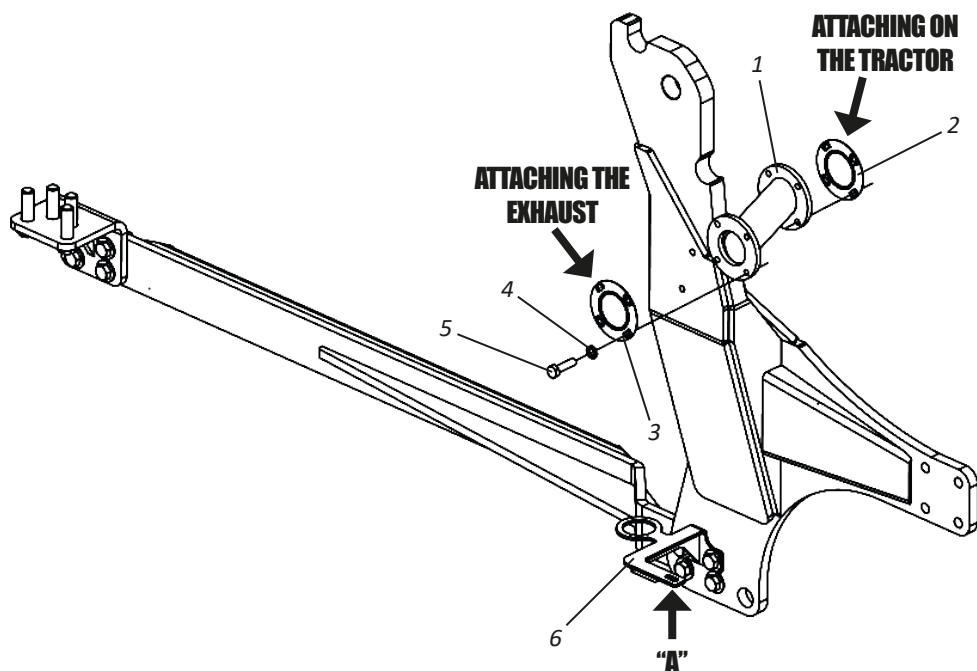
Items	Screws	Torques
3	Parafuso cabeça sextavada M16 x 2 x 75mm	280 N.m
13	Parafuso cabeça sextavada M16 x 2 x 65mm	195 N.m

## ■ Assembly

- Assembling exhaust extension - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive and Massey Ferguson 3400 (3406, 3407, 3408, 3409) tractor pump

To assemble the exhaust extension, proceed as follows:

- 01** - Remove the tractor exhaust.
- 02** - Then, secure on the tractor the exhaust extension (1) with the joint (2) using the same exhaust set screws.
- 03** - Secure the tractor exhaust to the exhaust extension (1) with the joint (3), using the spring washers (4), screws (5) and the "A" point at the exhaust support (6).



Use the same exhaust set screws to secure the exhaust extension (1) to the tractor.

## ▪ Assembly

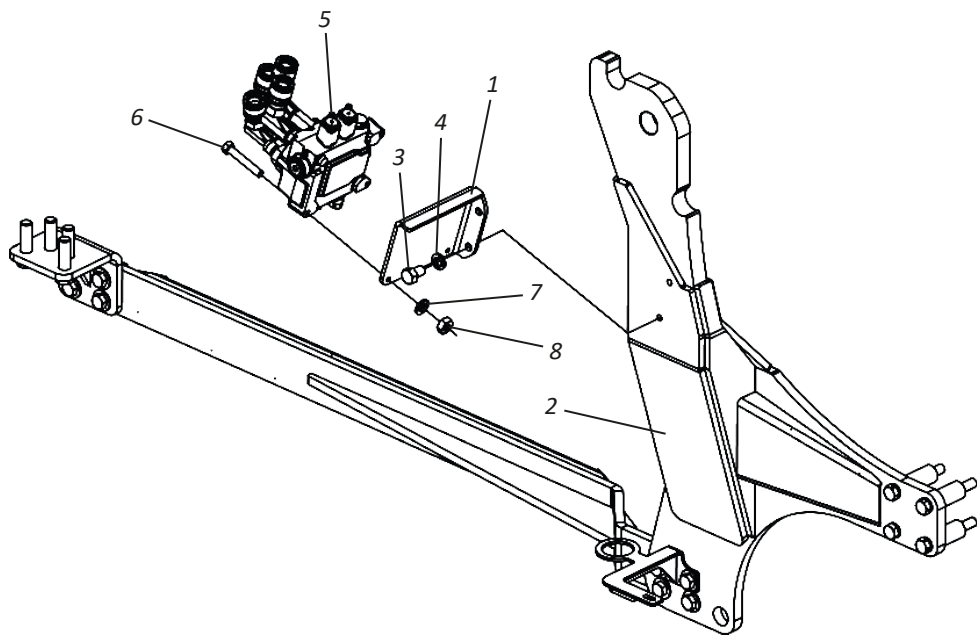
### • Assembling components

After assembling the exhaust extension, secure the components included in the **PAM 500** packaging box.

### • Assembling hydraulic drive (Attaching on the side) - Valtra A3F (A63F, A73F, A83F A93F) tractor drive and Massey Ferguson 3400 (3406, 3407, 3408, 3409) tractor pump

To assemble the hydraulic drive on the side of the frame, proceed as follows:

- 01** - Attach the plate (1) to the frame (2), securing it using screws (3) and spring washers (4).
- 02** - Then, attach the hydraulic drive (5) to the plate (1), fastening it using screws (6), spring washers (7) and nuts (8).



### **NOTE**

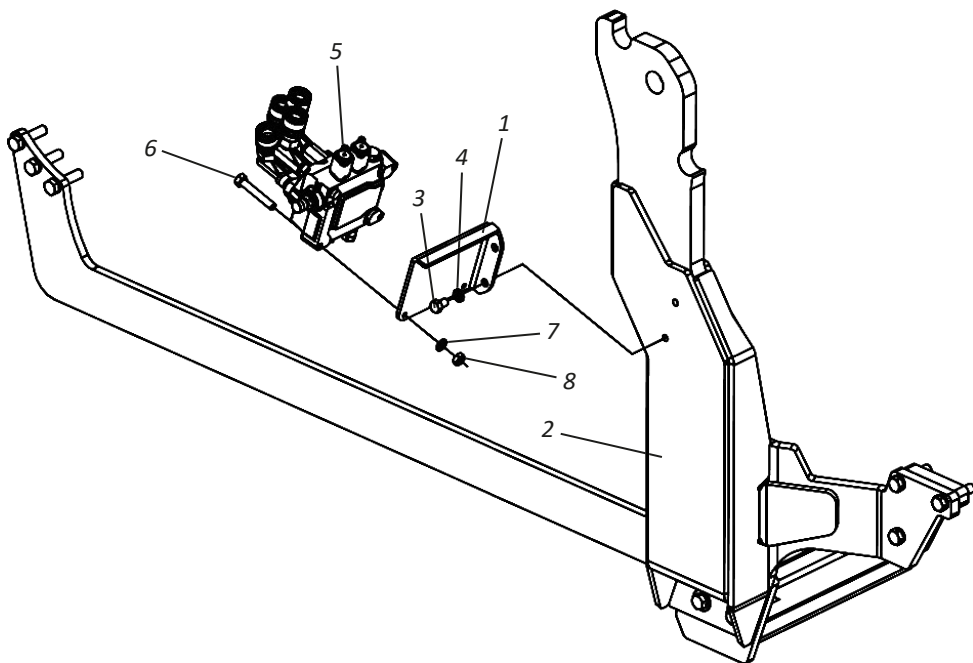
The plate (1) for fixing the hydraulic drive to the frame (2) may vary according to the tractor model.

## ■ Assembly

- **Assembling hydraulic drive (Attaching on the side) - Massey 3300 (3306, 3307, 3308) tractor pump**

To assemble the hydraulic drive on the side of the frame, proceed as follows:

- 01** - Attach the plate (1) to the frame (2), securing it using screws (3) and spring washers (4).
- 02** - Then, attach the hydraulic drive (5) to the plate (1), fastening it using screws (6), spring washers (7) and nuts (8).



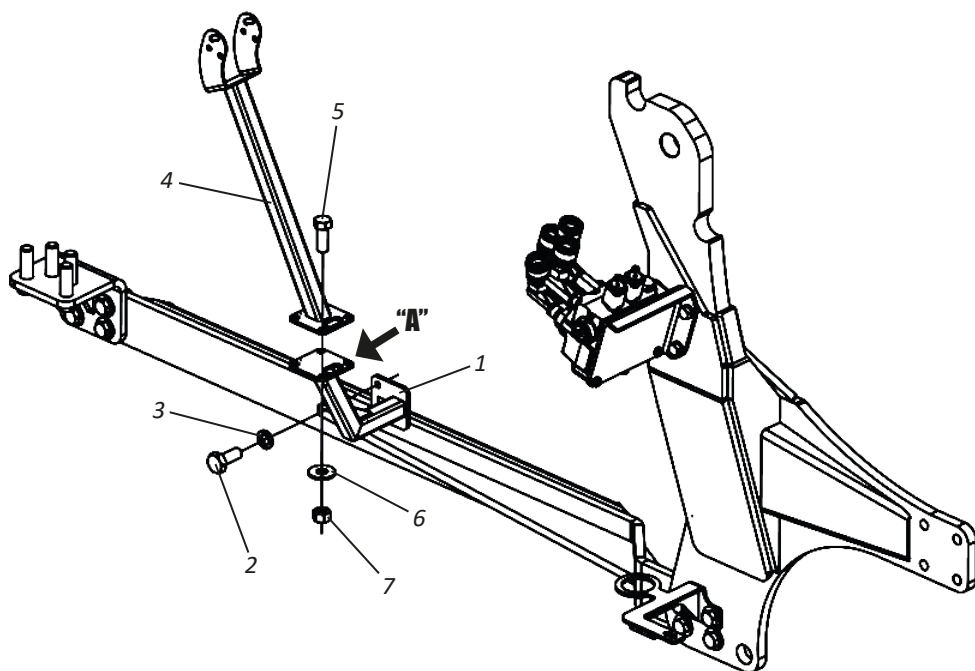
The plate (1) for fixing the hydraulic drive to the frame (2) may vary according to the tractor model.

## ▪ Assembly

- **Assembling joystick fixation bracket (Optional) - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive and Massey Ferguson 3400 (3406, 3407, 3408, 3409) tractor pump**

To assemble the joystick fixation bracket, proceed as follows:

- 01** - Attach to the tractor, under the platform, the fixation bracket (1) using screws (2) and spring washers (3). Then, check the positioning of the "A" holes to drill the platform.
- 02** - Third, on the platform, align the joystick support (4) with the fixation bracket (1) and secure it using screws (5), flat washers (6) and nuts (7).



### **ATTENTION**

The support (1) will only be used on platform tractors.

### **NOTE**

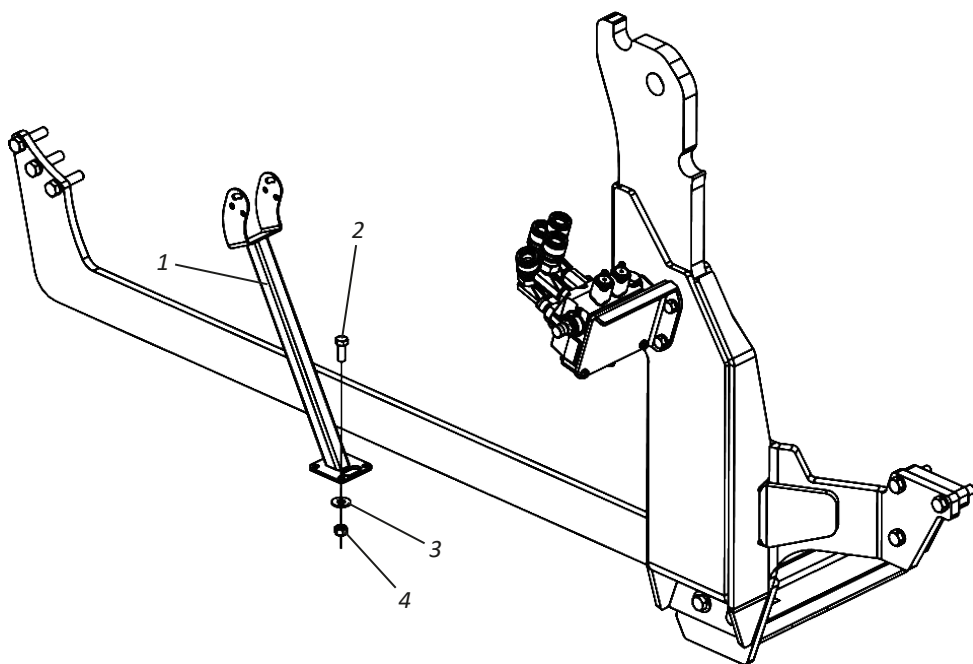
To attach the joystick support (4), it is necessary to drill holes in the tractor platform.

## ▪ Assembly

- **Assembling joystick fixation bracket (Optional) - Massey 3300 (3306, 3307, 3308) tractor pump**

To assemble the joystick fixation bracket, proceed as follows:

- 01** - On the tractor platform, secure the joystick support (1) using screws (2), flat washers (3) and nuts (4).



To attach the joystick support (4), it is necessary to drill holes in the tractor platform.

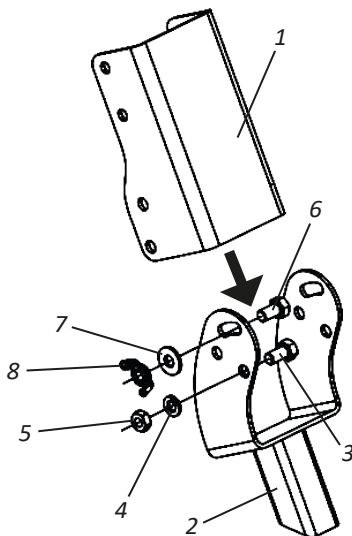


## ▪ Assembly

### • Assembling joystick fixation plate (Optional)

After assembling the joystick fixation bracket, assemble the joystick fixation plate (1). To do so, proceed as follows:

- 01** - Attach the joystick fixation plate (1) to the joystick support (2) using screws (3), spring washers (4), nuts (5) and screws (6), flat washers (7) and wing nut (8).



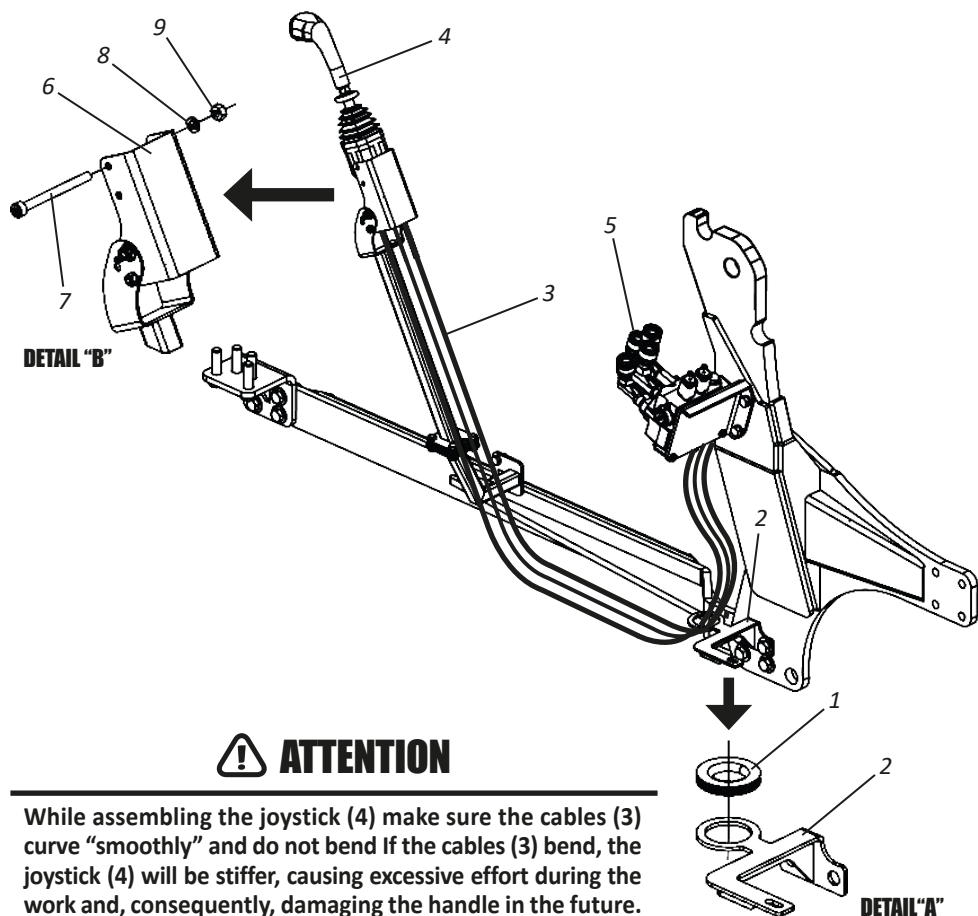
To improve ergonomics at work, adjust the joystick fixation plate (1) in order to better operate it on the tractor.

## ■ Assembly

- Assembling joystick (Optional) - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive and Massey Ferguson 3400 (3406, 3407, 3408, 3409) tractor pump

To assemble the joystick, proceed as follows:

- 01** - Place the rubber (1) on the inside diameter of the exhaust bracket (2), as shown in **detail "A"**.
- 02** - Next, pass the cables (3) of the joystick (4) through the inside diameter of the exhaust bracket (2) and attach to the drive (5).
- 03** - Then, assemble the joystick (4) to the joystick fixation plate (6), using screws (7), spring washers (8) and nuts (9), as shown in **detail "B"**.



### ATTENTION

While assembling the joystick (4) make sure the cables (3) curve "smoothly" and do not bend. If the cables (3) bend, the joystick (4) will be stiffer, causing excessive effort during the work and, consequently, damaging the handle in the future.

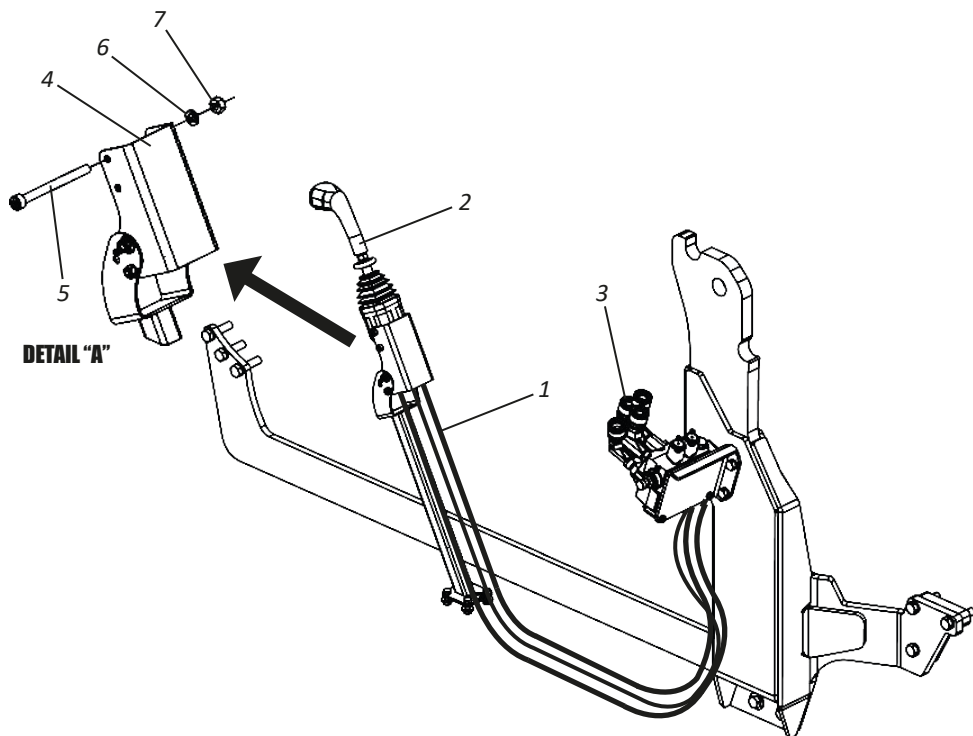
## ▪ Assembly

### • Assembling joystick (Optional) - Massey 3300 (3306, 3307, 3308) tractor pump

To assemble the joystick, proceed as follows:

**01** - Attach the cables (1) to the joystick (2), on the drive (3).

**02** - Then, assemble the joystick (2) to the joystick fixation plate (4), using screws (5), spring washers (6) and nuts (7), as shown in **detail "A"**.

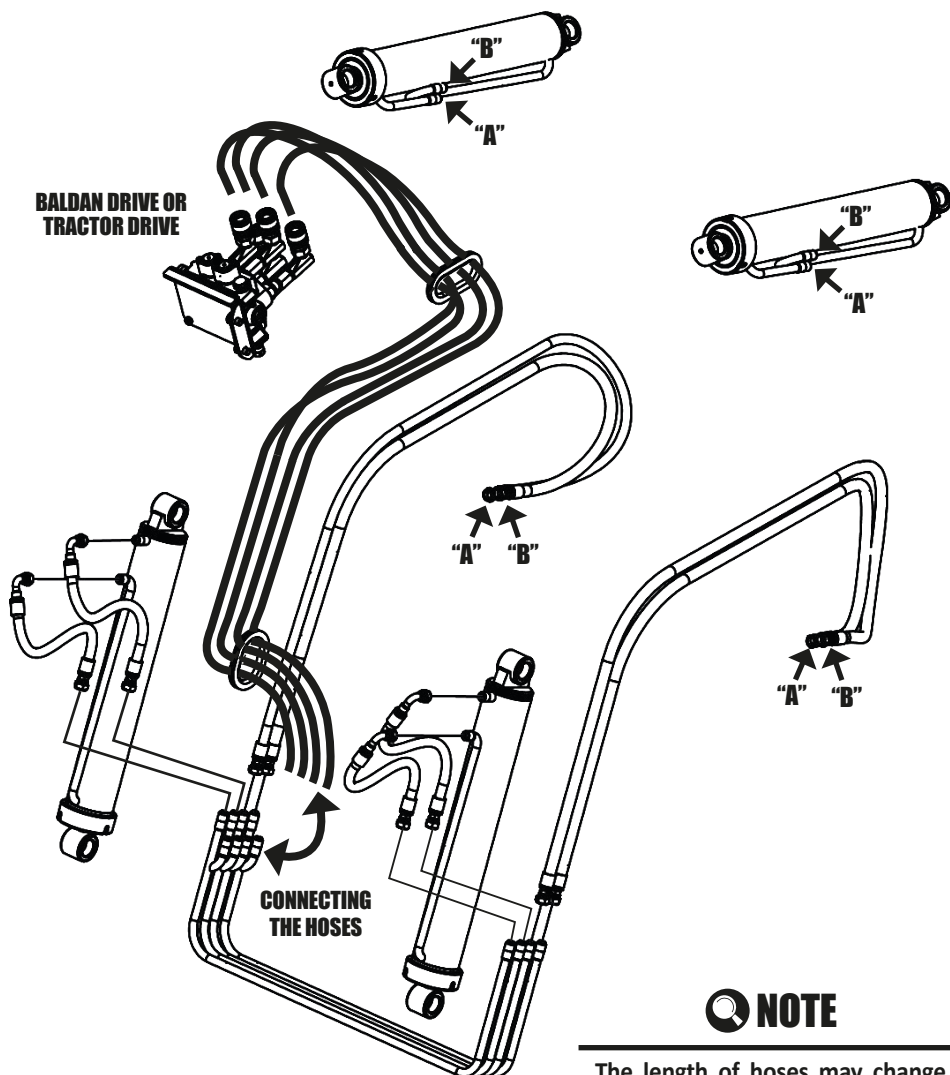


## **! ATTENTION**

While assembling the joystick (2) make sure the cables (1) curve "smoothly" and do not bend. If the cables (1) bend, the joystick (2) will be stiffer, causing excessive effort during the work and, consequently, damaging the handle in the future.

- **Assembly**

- **Assembling hydraulic system of the mobile support - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive, Massey 3400 (3406, 3407, 3408, 3409) tractor pump and Massey 3300 (3306, 3307, 3308) tractor pump**

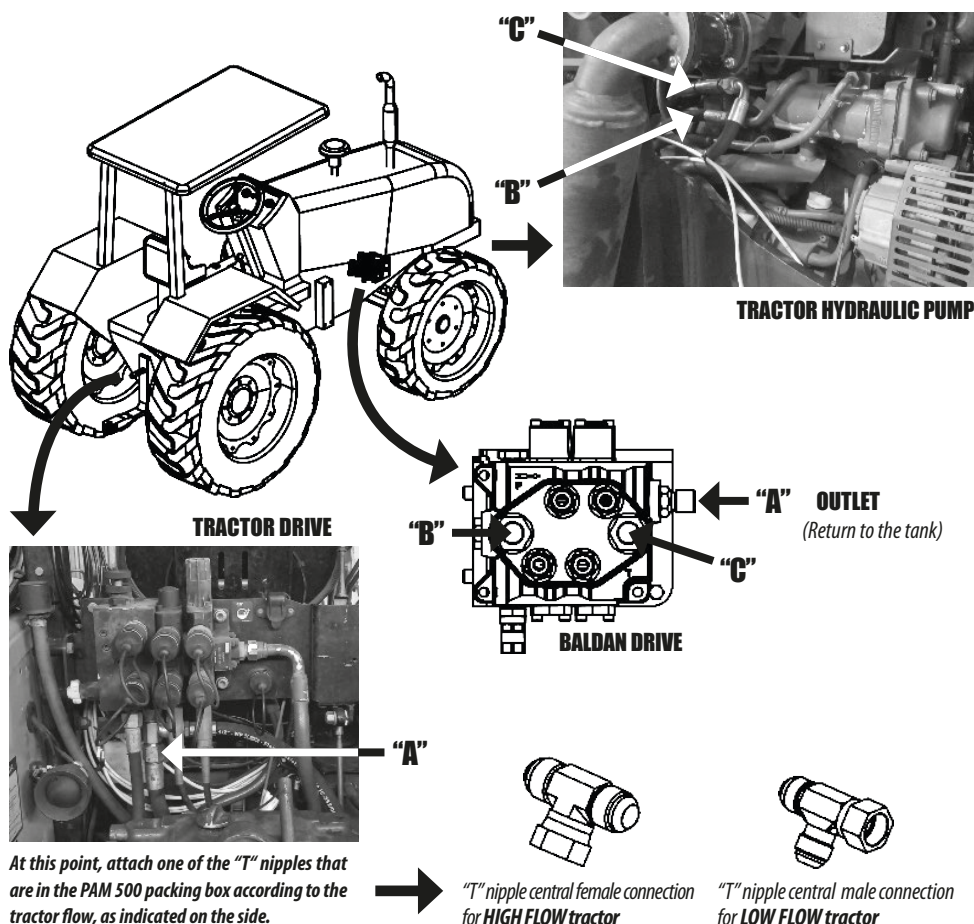


**NOTE**

The length of hoses may change depending on tractor model and type of hydraulic system layout.

## ▪ Assembly

- Assembling hydraulic system Baldan drive to tractor drive - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive, Massey 3400 (3406, 3407, 3408, 3409) tractor pump and Massey 3300 (3306, 3307, 3308) tractor pump

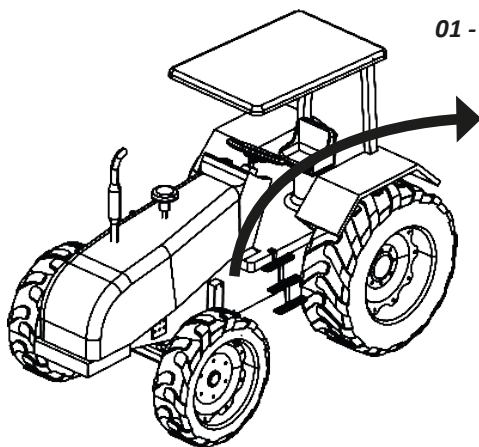


Points	Tractor	Hoses
"A"	High Flow	Hydraulic hose of $\varnothing 1/2"$ x 3000 mm with 1TRG and 1TCG
	Low Flow	Hydraulic hose of $\varnothing 1/2"$ x 2800 mm with 2TCG
"B"	-	Hydraulic hose of $\varnothing 1/2"$ x 900 mm with 1TRF and 1TCG
"C"	-	Hydraulic hose of $\varnothing 1/2"$ x 900 mm with 2TCG

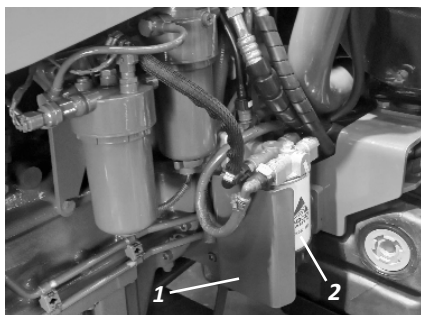
## ▪ Assembly

- Assembling tractor's fuel filter on PAM 500 - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive, Massey 3400 (3406, 3407, 3408, 3409) tractor pump and Massey 3300 (3306, 3307, 3308) tractor pump - Part I

For Valtra series A3F and Massey series 3300 and 3400 tractors, it is necessary to remove the fuel filter and bracket from the tractor in order to mount the fuel filter on the **PAM 500**. To do so, proceed as follows:



- 01** - Detach the bracket (1) and the fuel filter (2) from the tractor.

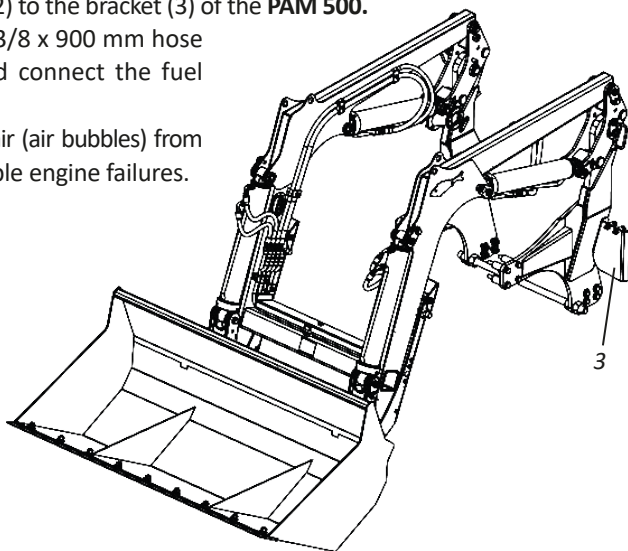


**TRACTOR FUEL FILTER AND BRACKET**

- 02** - Next, attach the fuel filter (2) to the bracket (3) of the **PAM 500**.

- 03** - Then, take the additional 3/8 x 900 mm hose from the packing box and connect the fuel tank (pump) to the filter.

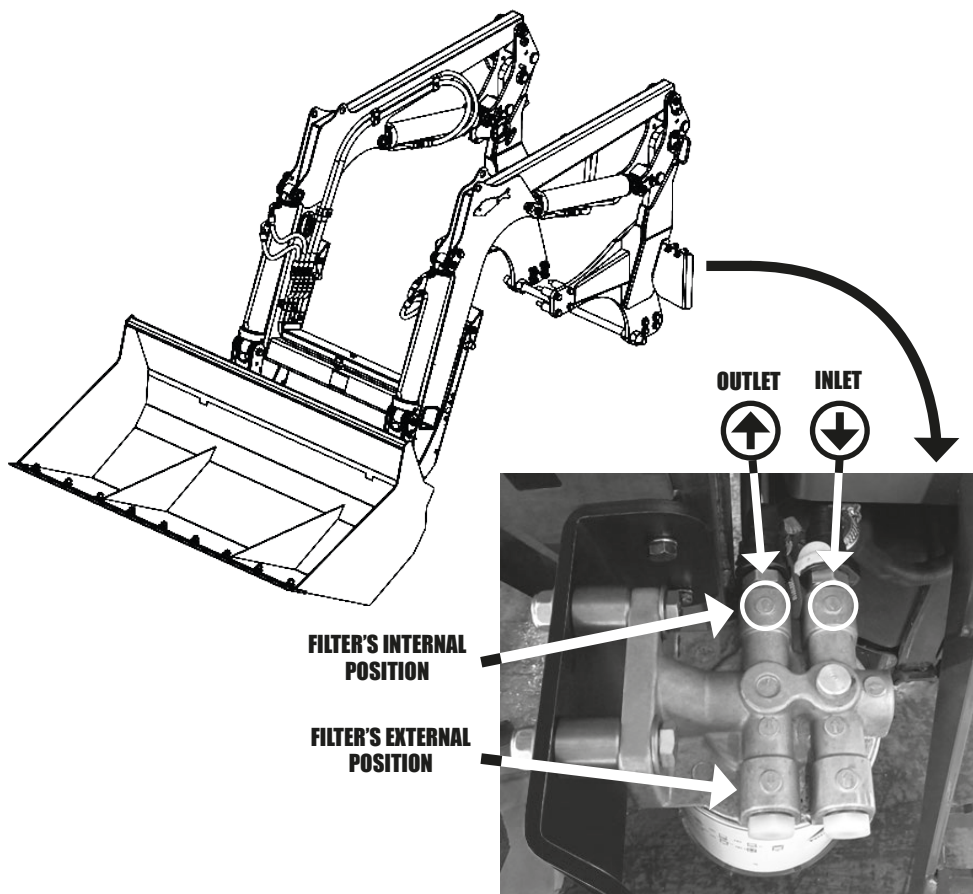
- 04** - Drain the fuel to eliminate air (air bubbles) from the system, avoiding possible engine failures.



## ▪ Assembly

- Assembling tractor's fuel filter on PAM 500 - Valtra A3F (A63F, A73F, A83F, A93F) tractor drive, Massey 3400 (3406, 3407, 3408, 3409) pump tractor and Massey 3300 (3306, 3307, 3308) tractor pump - Part II

- 05 - Then, position the fuel filter hoses and connections, removing them from the external position of the filter, and moving them to the internal position.
- 06 - Next, follow the position of the arrows on the top of the fuel filter for the correct connection of the hoses.



## **ATTENTION**

Failure to follow the positions of the arrows (outlet and inlet) will prevent the tractor or fuel filter from working.

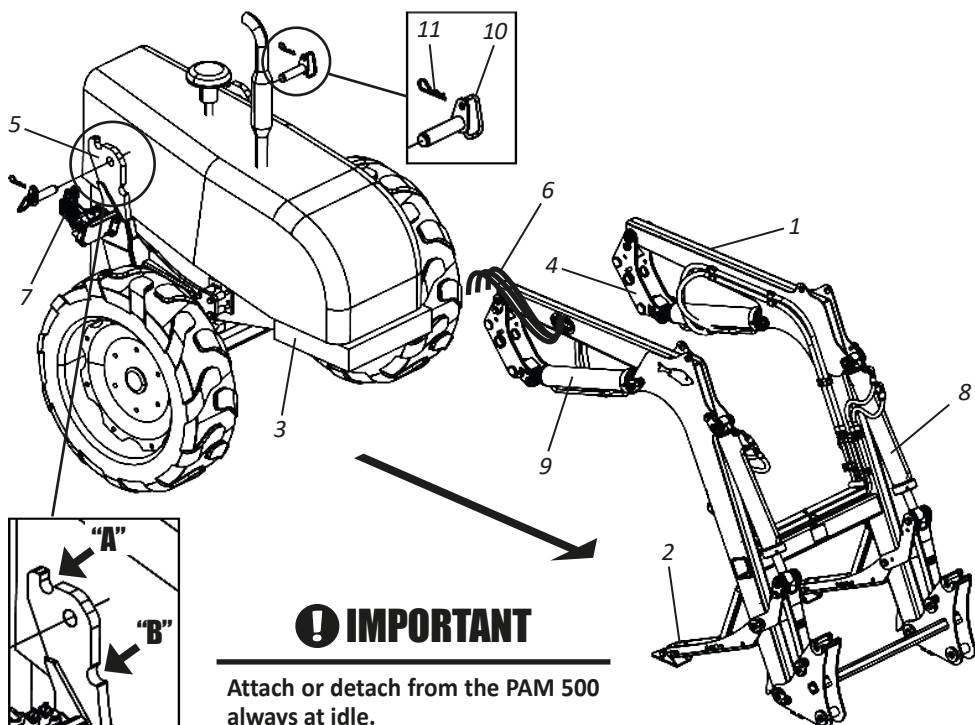
## ■ Assembly

### • Assembling mobile support - Part I

**! ATTENTION** Before assembling the mobile support, make sure there is no person near the tractor or the PAM 500.

To assemble the mobile support, proceed as follows:

- 01** - Find a flat location and position the mobile support (1) using the ground support (2).
- 02** - Then, slowly bring the tractor (3) closer to the mobile support (1) centering the brackets (4) between the side frames (5).
- 03** - Couple the hydraulic hoses 6 on the drive (7) activate the hydraulic cylinders (8) to tilt the support (4) coupling them at point "A" of the side frames.
- 04** - Next, activate the lifting cylinders (9) to tilt the brackets (4) backwards engaging them at point "B" on the side frames (5).
- 05** - Attach the mobile support (1) to the side frames (5) using the pins (10) and locks (11).
- 06** - Then, activate the control levers, proceeding with the movement until the end of the cylinders stroke (8 and 9). Now, check for leaks.

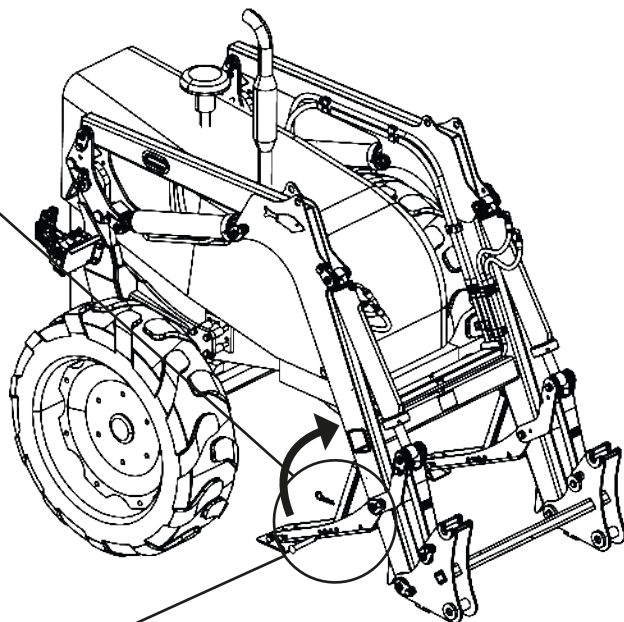
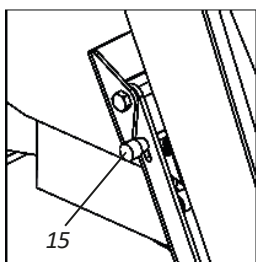
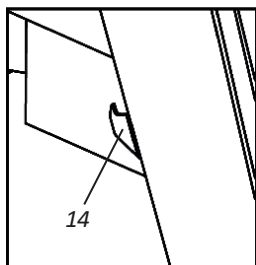
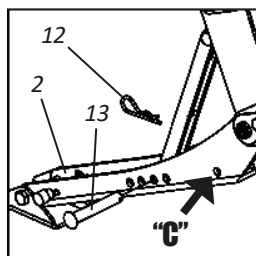




## ▪ Assembly

### • Assembling mobile support - Part II

**07** - Lastly, release the lock (12), remove the pin (13), lift the support footing (2) to the hitch plate (14), locking the handle (15).



**POSITION OF THE SUPPORT FOOTING  
FOR WORK**

## **ATTENTION**

Never mix oils of different brands and never put oil above the level. For the BT system (Tractor Drive), attach the hydraulic hoses to the tractor's rear outlets and for the BT system (Baldan Drive), connect the hydraulic hoses on the Baldan drive.

## **NOTE**

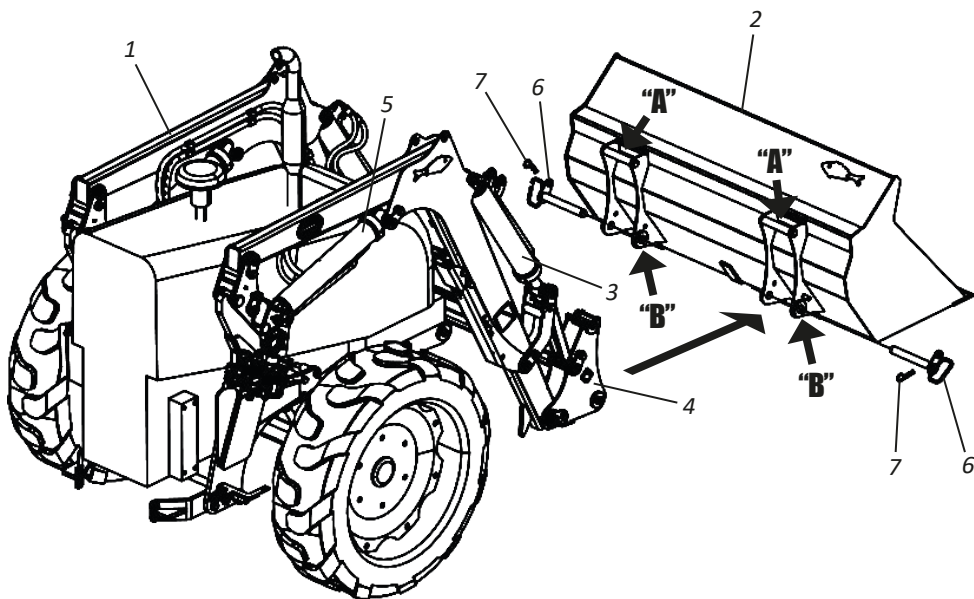
When removing the lock (12) and the pin (13), fix them on the support footing (2) as shown in point "C".

## ▪ Assembly

### • Assembling hydraulic shovel

To assemble the hydraulic shovel, proceed as follows:

- 01** - Slowly bring the mobile support (1) towards the hydraulic shovel (2).
- 02** - Next, slowly activate the hydraulic cylinders (3) positioning the reversing support (4) and attach it to the "A" points of the hydraulic shovel (2).
- 03** - Then, slowly activate the hydraulic cylinders (5) lifting the mobile support (1) and the hydraulic shovel (2) at this moment, center the "B" hole of the hydraulic shovel (2) with the hole of the reversing support (4) place the pin (6) and lock (7) securing it.

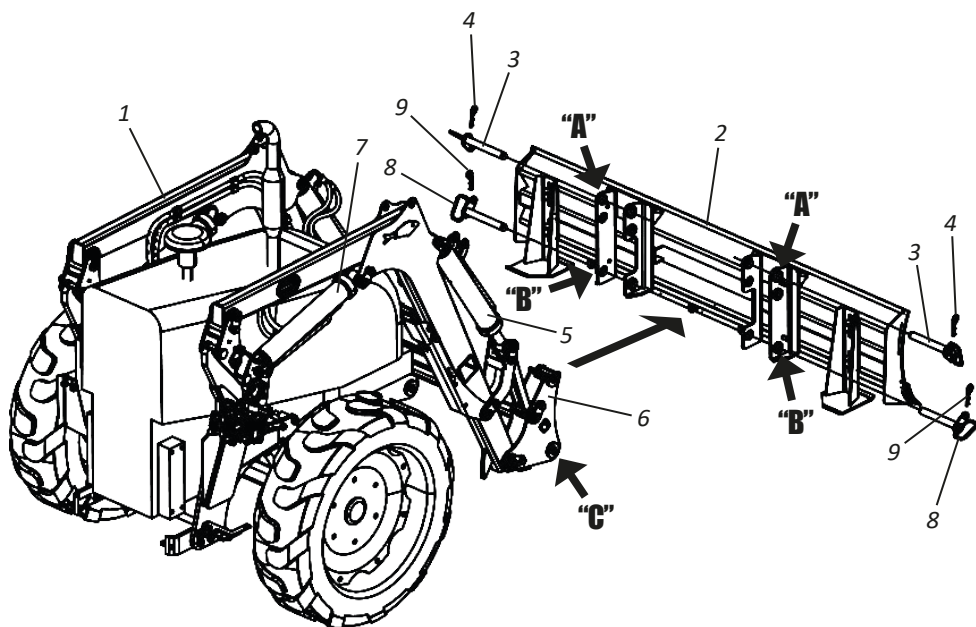


## ▪ Assembly

### • Assembling the blade

To assemble the blade, proceed as follows:

- 01** - Slowly bring the mobile support (1) towards the blade (2).
- 02** - Then, take the pins (3) and locks (4) that are in the packaging box and fix them at the "A" points of the blade (2).
- 03** - Next, slowly activate the hydraulic cylinders (5) positioning the reversing support (6) and attach it to the "A" points of the blade (2).
- 04** - Then, slowly activate the hydraulic cylinders (7) lifting the mobile support (1) and the blade (2) at this moment, center the "B" hole of the blade (2) with the "C" hole of the reversing support (6) place the pin (8) and lock (9) securing it.



### **NOTE**

Use the instructions above to assemble the BIG BAG.

## ▪ Adjustments

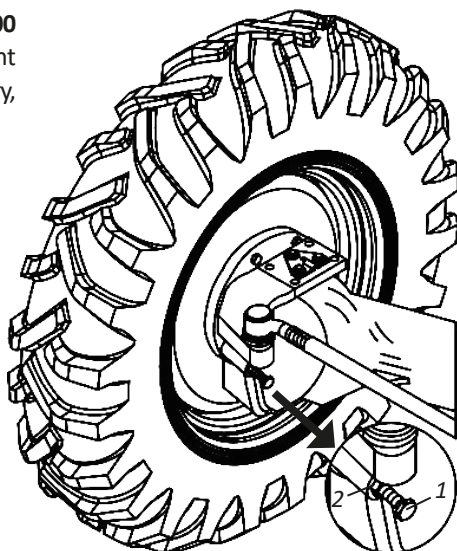
### • Adjusting tractor track width

When finishing the assembly of the **PAM 500** check the free movement of the tractor's front tires, steering completely to both sides. If necessary, adjust the track width.

## ❗ IMPORTANT

If necessary, the front axle turning radius can also be changed using the adjusting screw (1) and nut.

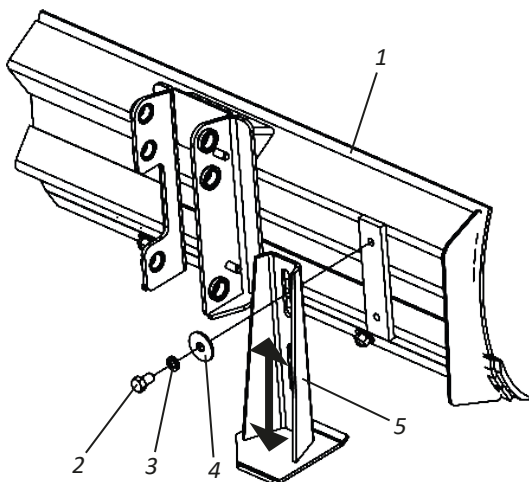
The adjustment of the adjusting screw (1) must allow full articulation of the front axle.



### • Adjusting blade cutting depth

The blade (1) can be purchased optionally with the **PAM 500**. To adjust the cutting depth of the blade (1), proceed as follows:

- 01-** Loosen the screws (2) spring washers (3) and flat washers (4) that secure the shoes (5) on the blade (1).
- 02-** Then, adjust the height using the shoes (5).
- 03-** Finish by tightening screws (2) spring washers (3) and flat washers (4).



## ❗ IMPORTANT

The two blade shoes must have the same adjustment.

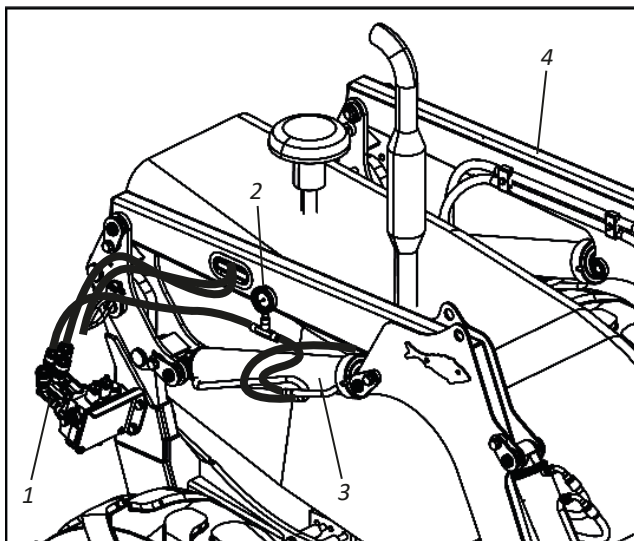
## ▪ Adjustments

### • Adjusting drive pressure

The hydraulic drive is factory set to **150 Bar** pressure;

After some time of work, when noticing that the set starts to lose strength, check the pressure again, as instructed below.

- 01** - Make sure the control levers are in the neutral position then, disconnect a hose from the drive (1).
- 02** - Then, attach a hose from the pressure gauge (2) to the drive (1) and another hose to the front of the right hydraulic cylinder (3); operate to lower the mobile support.



### **! ATTENTION**

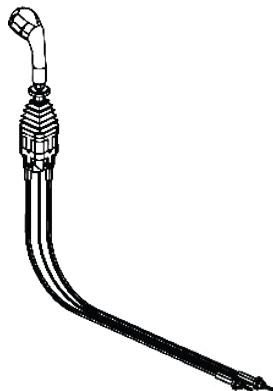
The control pressure must be adjusted by a qualified person and with the use of a pressure gauge.

- 03** - Keep the engine speed at **1500 rpm** and activate the drive lever, closing the cylinder completely; at this time, the pressure gauge will indicate the system pressure.
- 04** - If there is a need for adjustment, break the seal on the drive and remove the protective cover.
- 05** - Loosen the locknut and turn the screw half a turn clockwise.
- 06** - Activate the lever again and observe the indication on the pressure gauge with the engine accelerating to **1500 rpm**.
- 07** - Proceed with the adjustment, if necessary, turning the screw half in half a turn until reaching **150 Bar** pressure on the drive.

## ▪ Systems

### • Joystick

The joystick operation system (**optional**) allows the activation of all the functions of the **PAM 500** in a simple and immediate manner. To prevent unintentional movements, it is equipped with a safety lock.



## ▪ Operations

### • Operation recommendations

- 01** - After the first day of work with the **PAM 500** retighten all screws and nuts, checking the condition of pins and locks. Afterwards, retighten all screws and nuts every 10 hours of work.
- 02** - When operating with the **PAM 500** try not to use the front wheel drive.
- 03** - Maintain travel speed compatible with operation and work site.
- 04** - Do not detach any hose without first relieving the circuit pressure. To this end, operate the control levers a few times with the engine off.
- 05** - Always couple the tractor at idle and very carefully.
- 06** - The **PAM 500** is not designed for logging services.
- 07** - Never use front equipment to brake the tractor at speed.
- 08** - When not operating the **PAM 500**, always keep it well supported on the ground.
- 09** - When performing any maintenance on the **PAM 500**, lower it to the ground and turn off the engine.
- 10** - When operating the **PAM 500**, do not exceed the load capacity of 800 kg. Ignoring this warning could cause serious accidents or equipment damage.
- 11** - Adjust the drive pressure between 150 and 160 bar.

If you have any doubts, please do not operate or handle the PAM 500. Contact the After Sales.  
Phone: 0800-152577 / Email: posvenda@baldan.com.br

## ▪ Operations

### • Joystick control (Optional)

**PAM 500** can be purchased with a joystick equipped option. The joystick operation system allows for more precise control in the movement of the **PAM 500**.

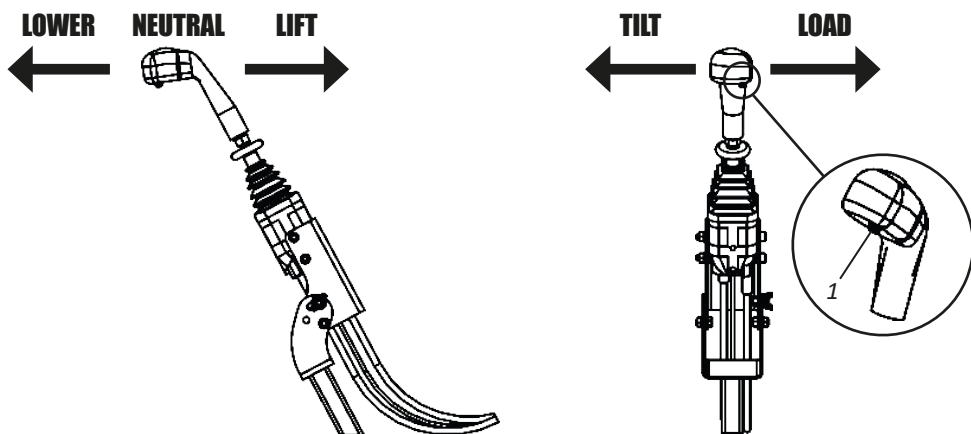
The speed for raising or lowering the **PAM 500** can be controlled by operating the joystick during the raising or lowering movement, releasing the joystick in any position will make it return to the neutral position and the **PAM 500** will remain in the position it was before.

The joystick functions are quite simple:

- **Forwards and backwards:** Will move the mobile support.
- **Left or right:** Will tilt and load the hydraulic shovel.

The joystick button 1 will only function in accessories having a third function (e.g. silage fork, log or bale fork) that open and close.

To enable the third function of the accessory (e.g. silage fork) keep the button (1) pressed and move the joystick at the same time in this way the tilt control is neutralized because at that moment the oil that feeds the circuit of this movement will be diverted to feed the circuit of the third function of the accessory. To disable the third function, release the button (1).



### **NOTE**

The button (1) of the third function only works when there is a flow divider valve. Joystick movement can be adjusted by the operator as needed by manipulating the cables attached to the drive.

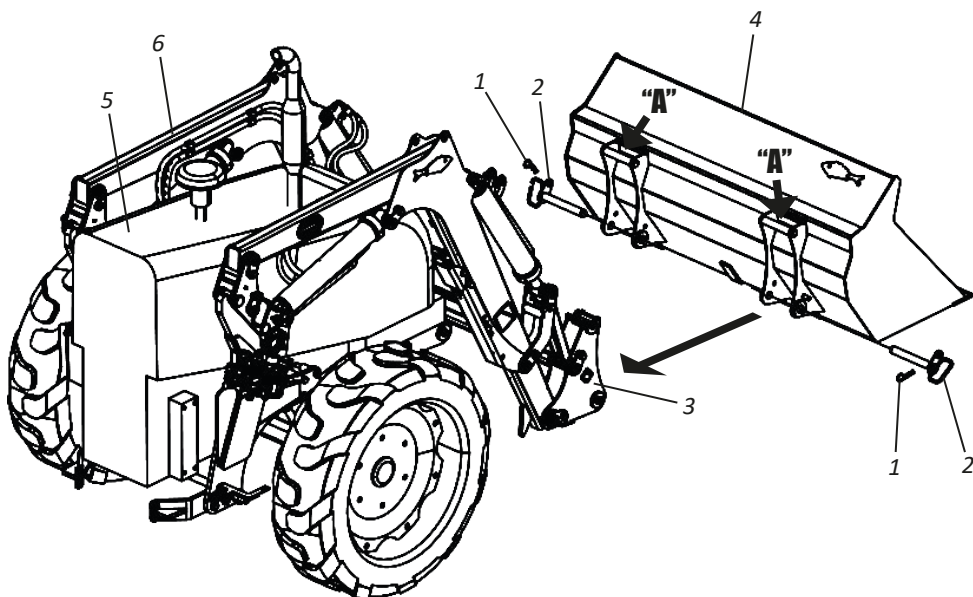
The assembly of the third function is not applicable on the **PAM 500**.

## ■ Operations

### • Optional accessory exchange system - Part I

**PAM 500** is a modular equipment with several optional accessories, all with a coupling system in the structure. To exchange optional accessories, proceed as follows:

- 01** - Press the set to be removed against a flat place;
- 02** - Next, release the locks (1) and remove the pins (2) on both sides;
- 03** - Then, gently actuate the hydraulic drive lever until the reversing support (3) detaches from point "A" of the hydraulic shovel (4);
- 04** - Next, slowly move the tractor (5) in reverse detaching the hydraulic shovel (4) from the mobile support (6).

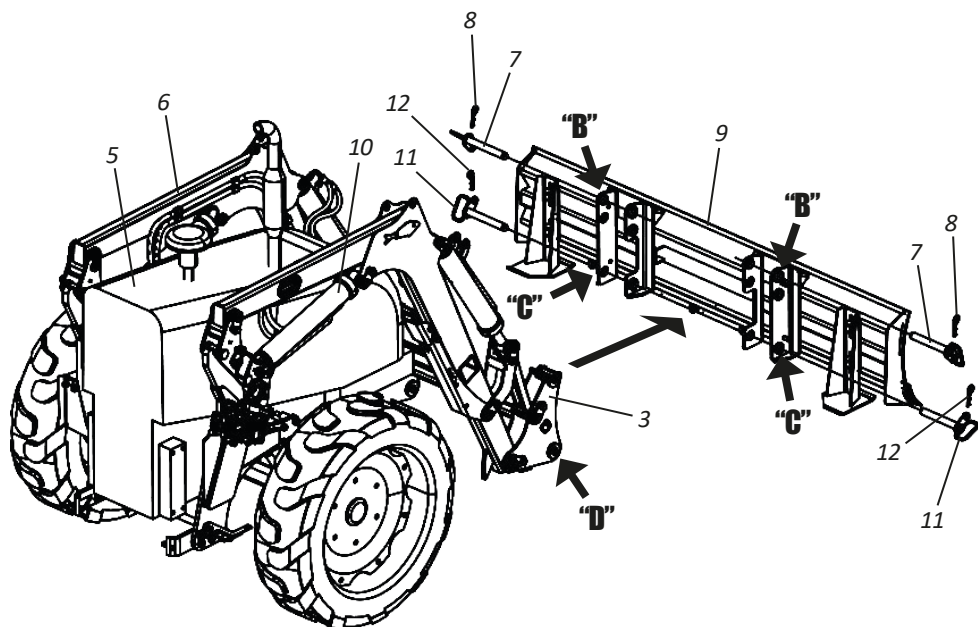




## ▪ Operations

### • Optional accessory exchange system - Part II

- 05 - Then, place the pins (7) and locks (8) at "B" point of the blade (9).
- 06 - Next, bring the tractor (5) slowly towards the blade (9).
- 07 - Then, gently activate the hydraulic drive lever until the reversing support (3) fits at "B" point of the blade (9)
- 08 - Next, slowly activate the hydraulic cylinders (10) lifting the mobile support (6) and the blade (9) at this moment, center the "C" hole of the blade (9) with the "D" hole of the reversing support (3) place the pins (11) and locks (12) securing it.



## **! ATTENTION**

When replacing the optional accessories, do not allow people to be near the attachment or detachment area. Ignoring this warning may cause serious accidents or even death.

## ■ Operations

### • Detaching from tractor - Part I

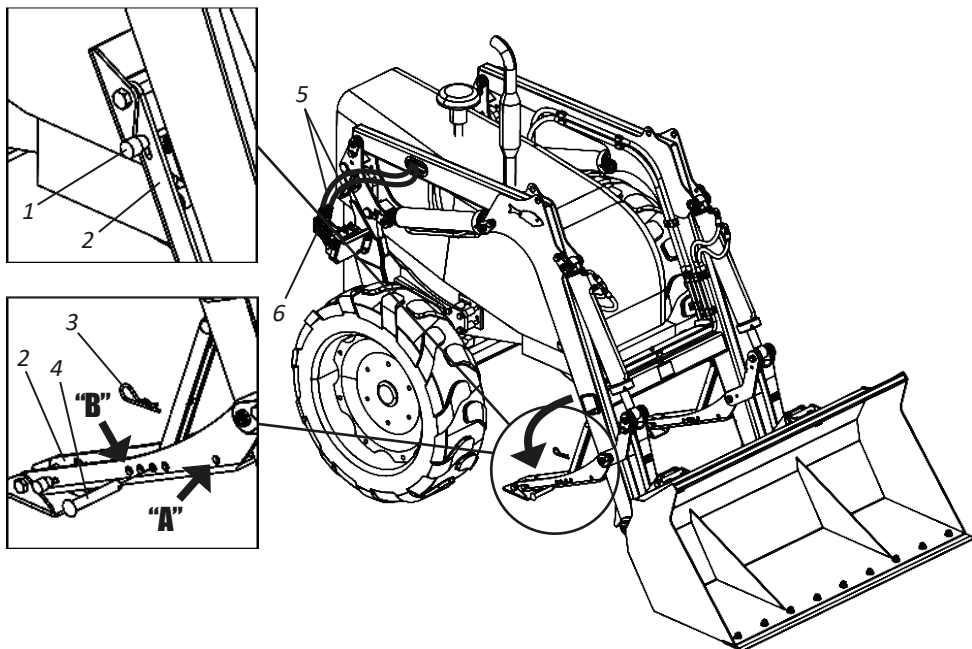


## ATTENTION

Before detaching, make sure there is no person near the tractor or the PAM 500.

To detach the **PAM 500**, proceed as follow:

- 01** - Find a flat location and properly support the **PAM 500** on the ground.
- 02** - Then, pull the handle (1) to unlock the support footing (2) and lower it. Next, release the lock (3) remove the pin (4) from "A" point and place it at "B" point, securing it with the lock (3) locking the support footing (2).
- 03** - Then, turn off the engine, operate the levers a few times to remove the oil pressure from the system and disconnect the hydraulic hoses (5) from the hydraulic driver (6).



## ! IMPORTANT

The PAM 500 has a support footing (2) on both sides. When lowering the support leg (2), repeat this procedure on the other side, leaving both lowered in the same position.

## ▀ Operations

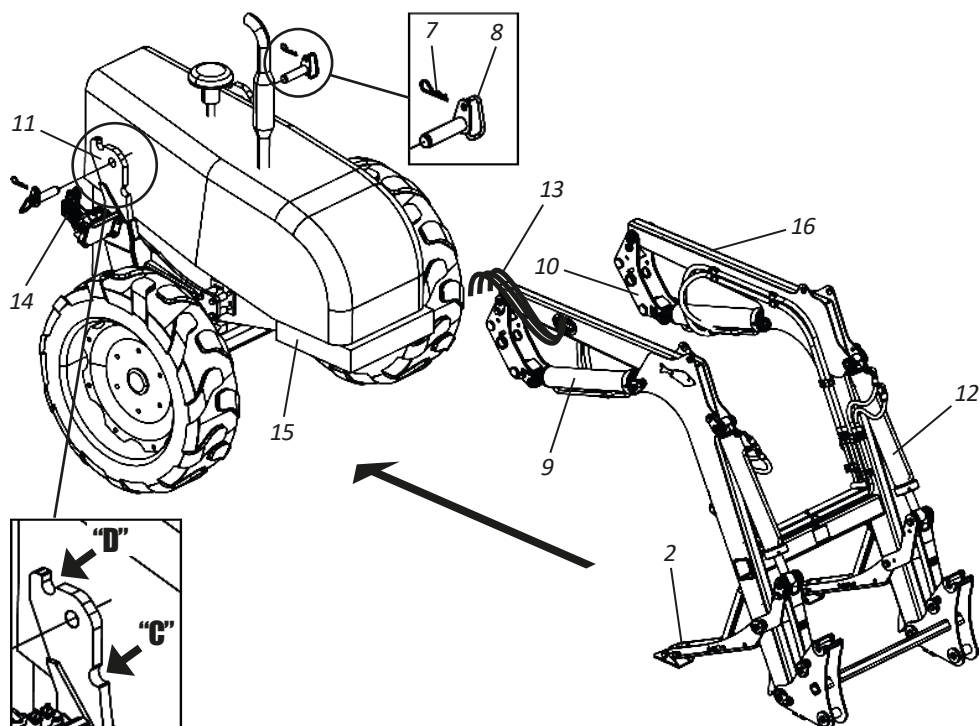
### • Detaching from tractor - Part II

**04** - Then, release the locks (7) and remove the pins (8).

**05** - Next, fully close the lift cylinders (9) to uncouple the supports (10) at "C" point from the side frames (11).

**06** - Then, activate the hydraulic cylinders (12) to uncouple the supports (10) at "D" point from the side frames (11).

**07** - Next, disconnect the hydraulic hoses (13) from the drive (14) and slowly move the tractor (15) in reverse away from the mobile support (16).



## **! ATTENTION**

When replacing the optional accessories, do not allow people to be near the attachment or detachment area. Ignoring this warning may cause serious accidents or even death.

## **NOTE**

To re couple the PAM 500 to the tractor 15 proceed as instructed on pages 32 and 33.

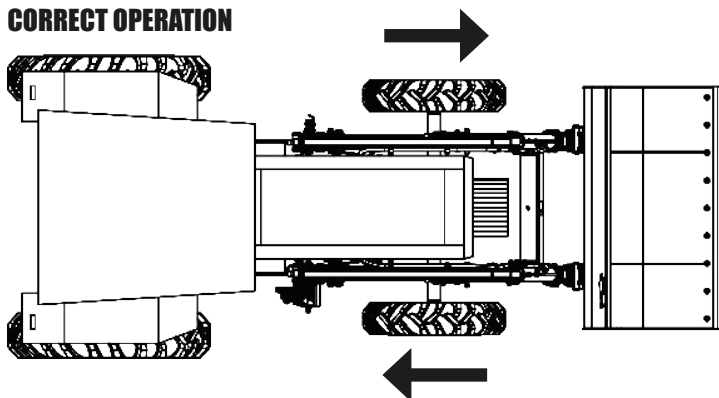
## ▪ Operations

### • Operational care

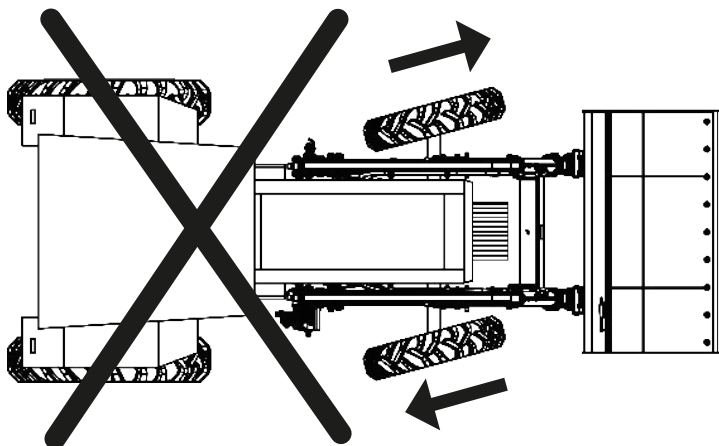
#### TRACTOR - PART I

Do not move the tractor sideways while pulling, loading the shovel or using other accessories. Always move forwards and backwards, avoiding exaggerated efforts in front traction and torsions in the frame.

#### CORRECT OPERATION



#### WRONG OPERATION

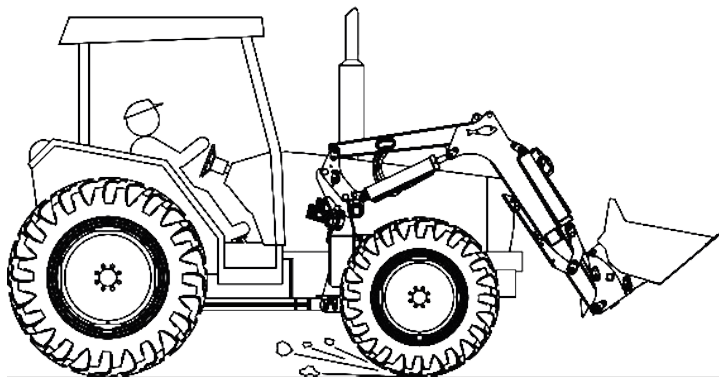


## ▪ Operations

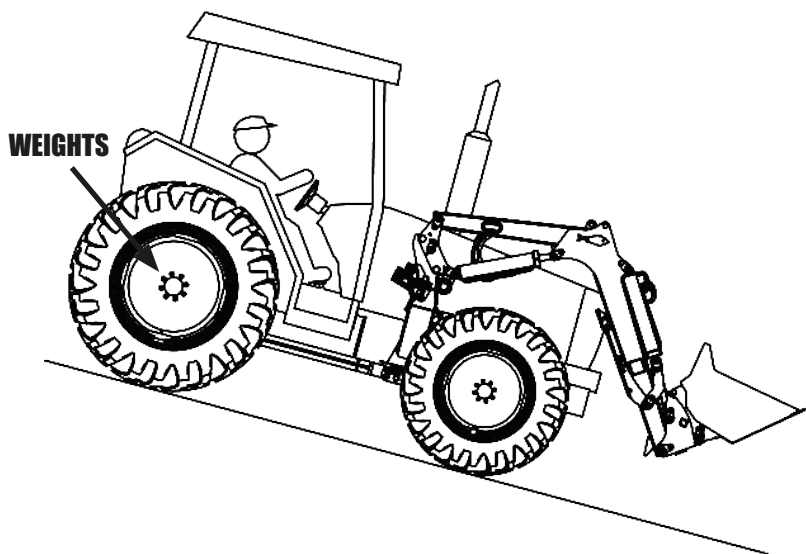
### • Operational care

#### **TRACTOR - PART II**

When working with the **PAM 500**, avoid using the tractor's front traction, as if activated, it may damage its frame and even the tractor traction.



When moving the **PAM 500** on steep terrain, to improve stability, it may be necessary to place additional weights on the rear of the tractor. This procedure can prevent the loss of traction on the rear wheels and the tractor overturning.

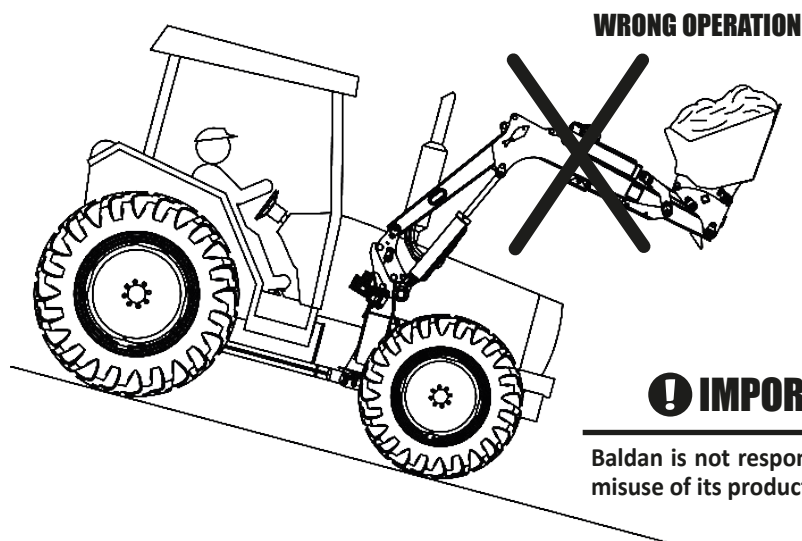
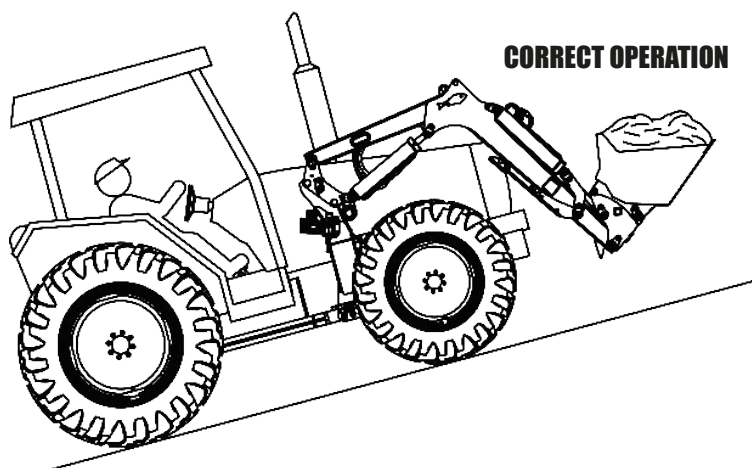


## ■ Operations

- Correct use

### HYDRAULIC SHOVEL - PART I

When climbing or descending steep terrain with the **PAM 500** attached with the **HYDRAULIC SHOVEL** make it always face the upper part of the slope, thus ensuring the stability of the machine and the safety of the operation.



### ❗ IMPORTANT

Baldan is not responsible for the misuse of its products.

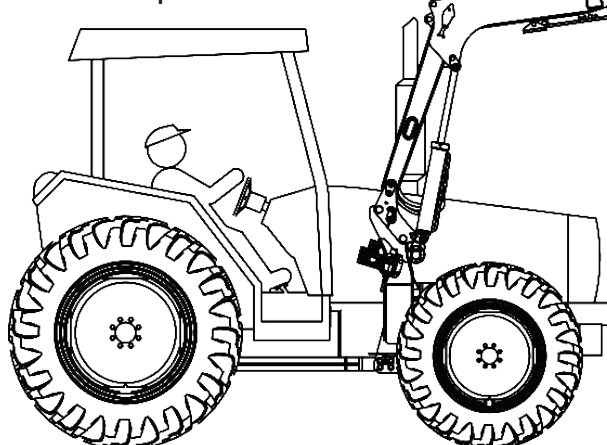
## ▪ Operations

- Correct use

### HYDRAULIC SHOVEL - PART II

#### **IMPORTANT**

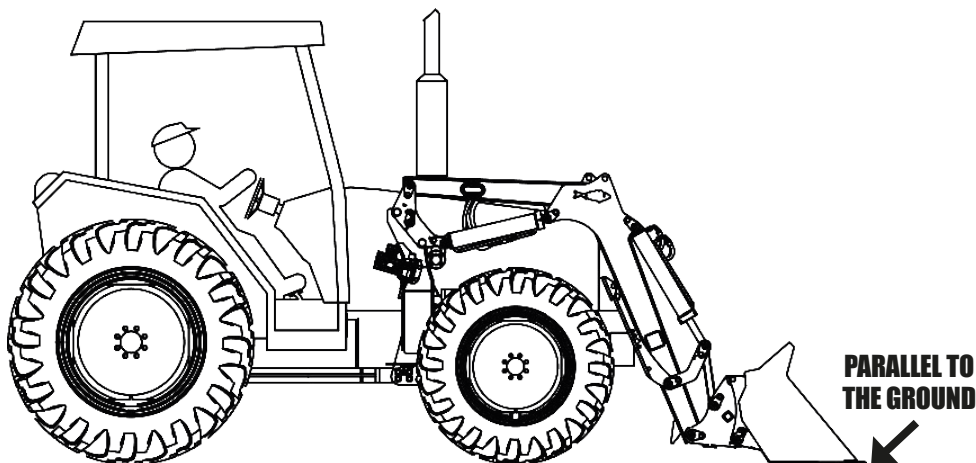
Baldan is not responsible for the misuse of its products.



#### **ATTENTION**

Do not use the **HYDRAULIC SHOVEL** to lift or suspend people. Ignoring this warning may cause serious accidents or even death.

When operating the **HYDRAULIC SHOVEL**, keep it parallel to the ground, with a sufficient angle to scrape it, without cutting or touching the bottom of the **HYDRAULIC SHOVEL** to the ground.

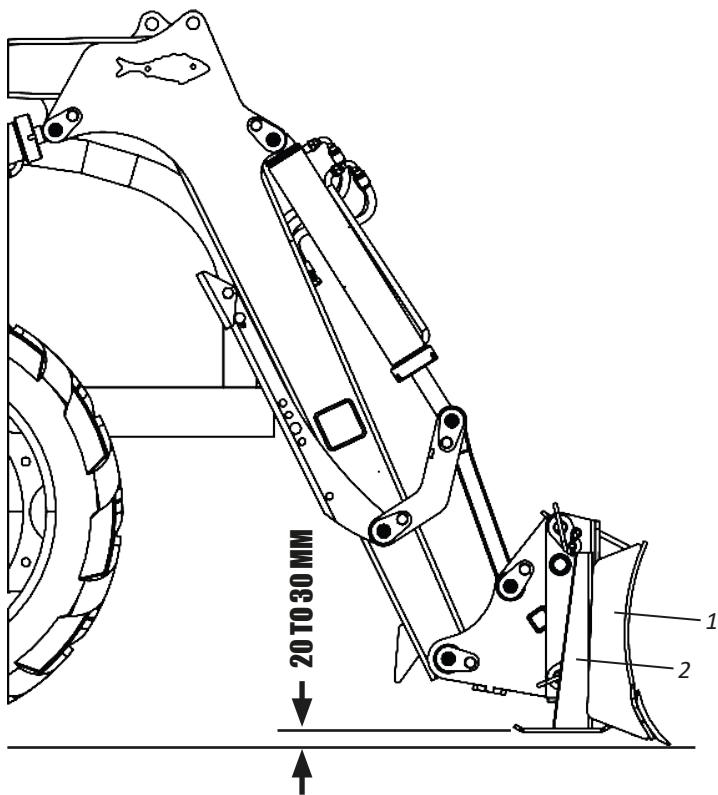


## ■ Operations

- Correct use

### BLADE

When operating the **PAM 500** with the **BLADE** (1) attached, make sure the shoes (2) are 20 to 30 mm from the ground.



### **ATTENTION**

Incorrect use of the shovel or blade can damage the structure of the PAM 500. E.g.: Work only with the tip of the shovel or blade in contact with the ground when removing materials.

### **NOTE**

To adjust the cutting depth of the blade (1), proceed as instructed on page 36.



## ■ Operations

- Correct use

### **BIG BAG - HOIST**

To avoid the risk of tipping over when moving the **PAM 500** with the **BIG BAG (Hoist)** attached, keep the bracket fully retracted so that the **BIG BAG (Hoist)** rests against the bracket and close to the ground.

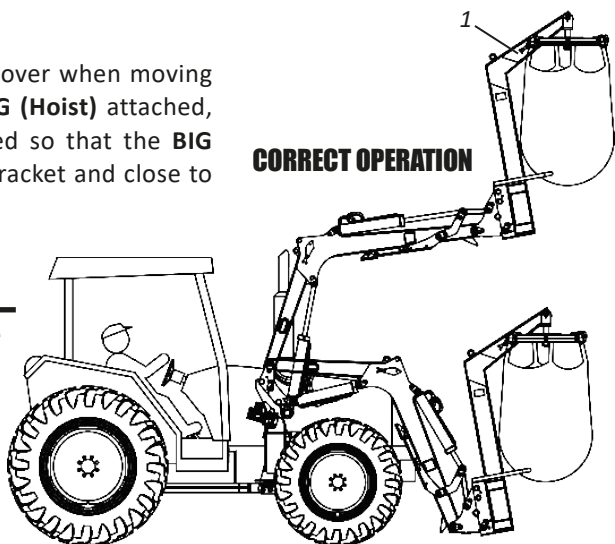
### **! IMPORTANT**

Baldan is not responsible for the misuse of its products.

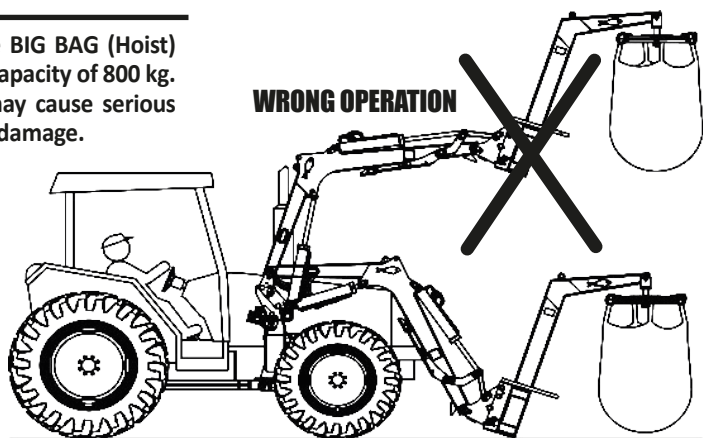
### **! ATTENTION**

When working with the **BIG BAG (Hoist)** do not exceed the load capacity of 800 kg. Ignoring this warning may cause serious accidents or equipment damage.

**CORRECT OPERATION**



**WRONG OPERATION**



### **NOTE**

When lifting the **BIG BAG (Hoist)** to supply trucks or seeders, always look for flat ground and open the bracket as little as possible (1) as the further the **BIG BAG (Hoist)** is away from the tractor, the greater the risk of tipping and strain on the front axle, which may also cause structural damage to the **PAM 500** and particularly to the hydraulic cylinders.

## ▪ Maintenance

The **PAM 500** has been developed to provide you with maximum yield under terrain conditions. Experience has shown that periodic maintenance of certain parts of the **PAM 500** is the best way to help you to avoid any issues. Accordingly, following this recommendation is encouraged.



### ATTENTION

Check the nuts and bolts on a regular basis and retighten them, if necessary. The general tightening maintenance of the equipment must be carried out every 10 hours of work.

## • Lubrication

Lubrication is critical for proper performance and greater durability of the moving parts of the **PAM 500** contributing to saving maintenance costs.

Before operating, carefully lubricate all grease fittings, always observing the lubrication intervals on the next page. Ensure the quality of the lubricant, regarding its efficiency and purity, avoiding using products contaminated by water, earth and other agents.

## • Table of greases and equivalents

Manufacturer	Type of recommended grease
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
Petronas	Tutela Jota MP 2 EP
	Tutela Alfa 2K
	Tutela KP 2K

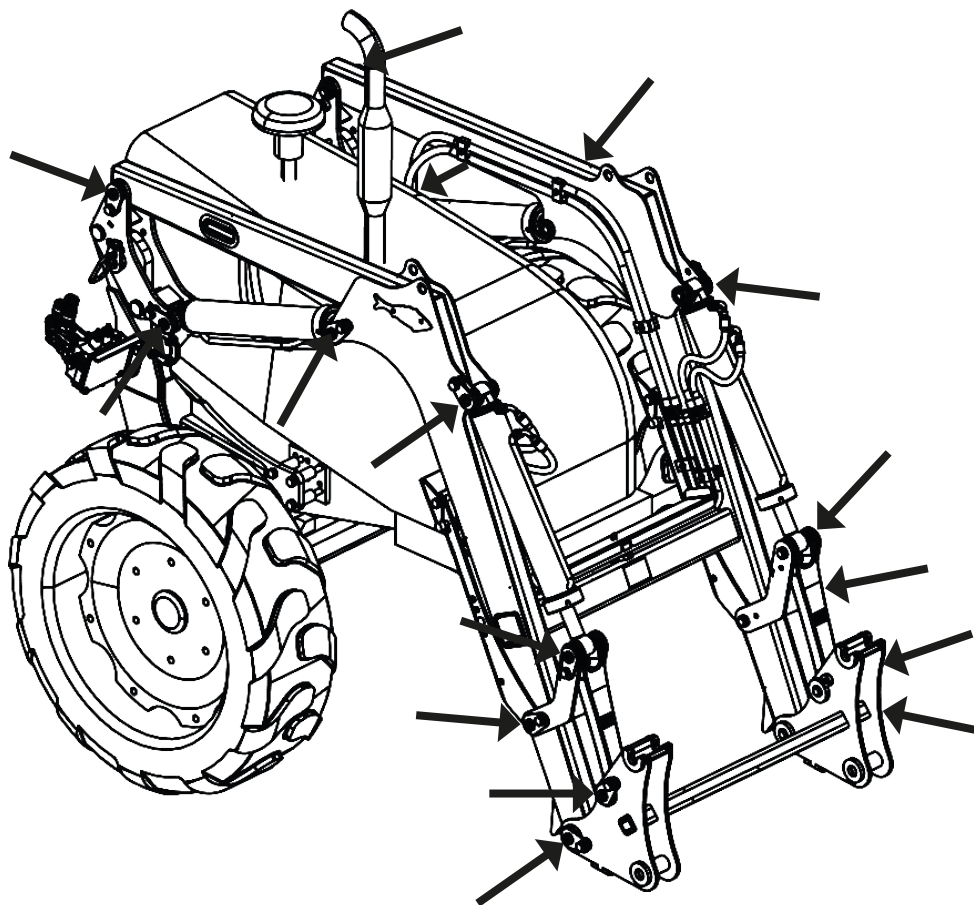


### ATTENTION

For manufacturers and/or equivalent brands not listed in the table, check the manufacturer's technical manual.

## ▪ Maintenance

- Lubricate every 10 hours of work



### **ATTENTION**

When lubricating the PAM 500 or its accessories, do not exceed the amount of new grease. Introduce a sufficient amount.

#### • Hydraulic system for BT models

- Maintain the hydraulic system as instructed in the tractor manual.
- Never use oil of different brands.

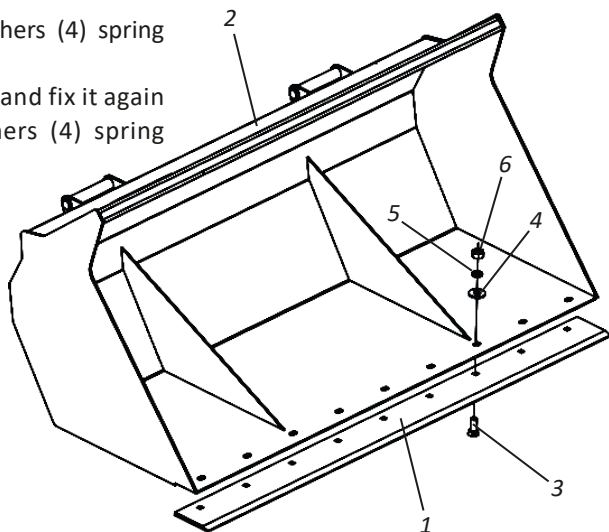
## ■ Maintenance

### • Hydraulic shovel (Optional)

When the edge (1) of the hydraulic shovel (2) gets worn, replace it. Proceed as follows:

**01** - Loosen screws (3) flat washers (4) spring washers (5) and nuts (6).

**02** - Then, replace the edge (1) and fix it again with screws (3) flat washers (4) spring washers (5) and nuts (6).

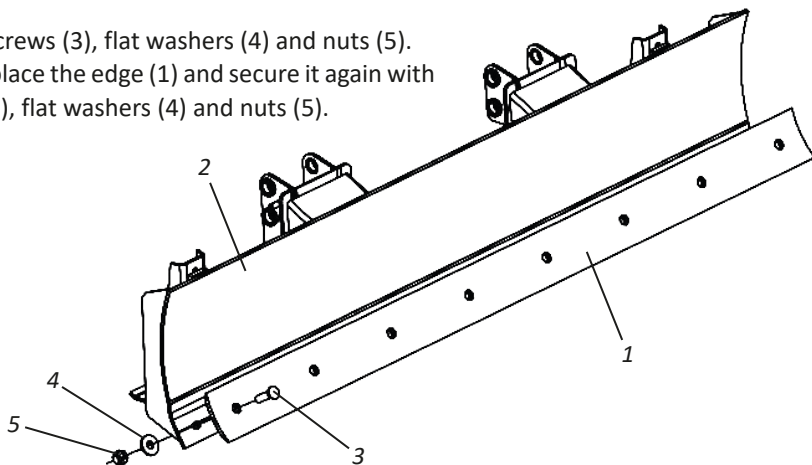


### • Blade (Optional)

When the edge (1) of the hydraulic shovel (2) gets worn, replace it. Proceed as follows:

**01** - Loosen screws (3), flat washers (4) and nuts (5).

**02** - Then, replace the edge (1) and secure it again with screws (3), flat washers (4) and nuts (5).



## ▪ Maintenance

### • Operational Maintenance - Part I

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Equipment moves slowly, showing loss of power.	Oil level too low.	Top up the oil level.
	Hydraulic cylinders with internal leaks.	Exchange repairs. Check for damaged sleeve. Replace hydraulic cylinders.
Equipment has no power.	Low pressure.	Adjust the drive pressure between 140 and 160 bar.
Leak in hydraulic hoses.	Sealing material on the screw thread is missing.	Use thread sealant tape and retighten carefully.
	Insufficient tightening.	Retighten carefully.
	Damaged repairs.	Replace terminals.
Leak in quick couplers.	Insufficient tightening.	Retighten carefully without excess.
	Damaged repairs.	Replace repairs.
Replace repairs.	Inverted hoses.	Fit hoses correctly.
Quick couplers do not couple.	Couplings of different brands.	Use quick couplers of the same brand.
	Mixture of needle type couplings with ball type couplings.	Always use couplings of the same type.
	System pressure.	Relieve pressure to couple.
Equipment moves without activating the control levers.	Hydraulic cylinders or drives with damaged repairs.	Identify faulty cylinder and replace the repairs.

## ▪ Maintenance

### • Operational Maintenance - Part II

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Leaking hydraulic cylinder.	Cylinder damaged.	Replace cylinder.
	Damaged rod.	Replace rod.
	Oil with impurities.	Replace oil, repairs and filter element.
	Drive pressure above recommended.	Regulate the drive through the relief valve using a pressure gauge. Drive pressure at 150 bar.

### • Care

- 01** - Before each task, check the condition of all hoses, pins and screws. When necessary, retighten them.
- 02** - Movement speed must be carefully controlled according to the terrain conditions.
- 03** - **PAM 500** is used in several applications, requiring knowledge and attention during its handling.
- 04** - Only local conditions will be able to determine the best way of operating the **PAM 500**.
- 05** - When assembling or disassembling any part of the **PAM 500** , use suitable methods and tools.
- 06** - Carefully observe the lubrication intervals at the various **PAM 500** lubrication points.
- 07** - Always check if the parts show wear. If replacement is required, always demand genuine Baldan parts.



Proper and periodic maintenance is necessary to ensure the long life of the PAM 500.

## ▪ **Maintenance**

### • **General cleaning**

- 01** - Before storing the **PAM 500**, perform a general cleaning and wash it thoroughly with water only. Check that the paint has not worn out if it has, apply a general coat, apply protective oil and lubricate the **PAM 500** fully.
- 02** - Fully lubricate the shovel. Check all the moving parts of the **PAM 500** if they are worn or loose, make the necessary adjustment or replace the parts, leaving them shovel ready for the next work.
- 03** - When connecting or disconnecting the hydraulic hoses, do not let the ends touch the ground. Before connecting the hydraulic hoses, clean the connections with a clean, lint free cloth (**do not use rag**).
- 04** - Replace all stickers that are damaged or missing, especially warnings. Make everyone aware of their importance and the dangers of accidents when instructions are not followed.
- 05** - After all maintenance care, store your **PAM 500** on a flat surface, covered and dry, away from animals and children.
- 06** - We recommend washing the **PAM 500** only with water at the beginning of the work.



### **ATTENTION**

**Do not use chemicals to wash the PAM 500, as this could damage its paintwork.**

### • **Conservation of the PAM 500 - Part I**

To extend the life and appearance of the **PAM 500** for a longer period of time, please follow the instructions below:

- 01** - Wash and clean all the **PAM 500** components during and at the end of the work season.
- 02** - Use neutral products to clean the **PAM 500** , following the safety and handling guidelines provided by the manufacturer.
- 03** - Always carry out maintenance during the periods indicated in this manual.

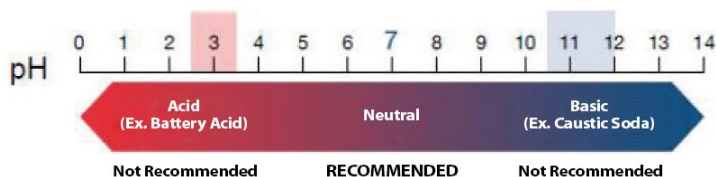
### • **Conservation of the PAM 500 - Part II**

The practices and precautions below, if adopted by the owner or operator, make a difference to the conservation of the **PAM 500**.

- 01** - Be careful when performing high pressure washing;

## ▪ Maintenance

- 02** - Use only water and NEUTRAL detergent (pH equal to 7);
- 03** - Apply the product, strictly following the manufacturer's instructions, on the wet surface and in the correct sequence, respecting the application and washing time;
- 04** - Stains and dirt not removed with the products must be removed with the aid of a sponge.
- 05** - Rinse the machine with clean water to remove all chemical residues.
- 06** - Never use: - **Detergents with acid active ingredient (pH less than 7), act as stripper/remover of zinc coating (the protection of parts against oxidation).**



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

**⚠ ATTENTION** Do not use any other oil to protect the PAM 500 (used hydraulic oil, "waste" oil, oil, diesel oil, castor oil, kerosene, etc.).

**! IMPORTANT** We recommend the following protective oils:

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

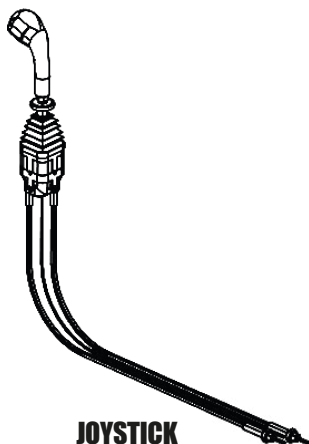
**🔍 NOTE** Ignoring the conservation measures mentioned above may result in the loss of the warranty for painted or zinc coated components that present possible oxidation (rust).



## ▪ Optional

### • Optional systems

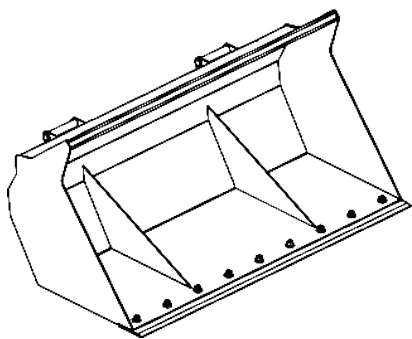
The **PAM 500** has optional accessories that can be purchased according to the work needs.



**JOYSTICK**

### • Optional accessories - Part I

The **PAM 500** has optional accessories that can be purchased according to the work needs.



**HYDRAULIC SHOVEL**

Model	Total Width (mm)	Capacity (m³)	Lift Height (mm)	Weight (kg)
PAM 500	1600	0,400	2900 (*)	162

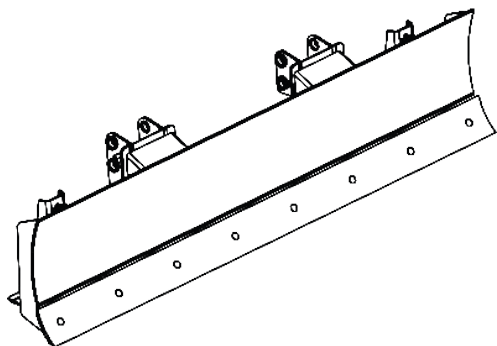
*(\*) The inclination angle of the PAM 500 may have slight variations from tractor to tractor due to equipment positioning and lift height.*

**Note:** The lift height of the PAM 500 may have slight variations from tractor to tractor due to the tire model and tractor block height in relation to the ground.

## ▪ Optional

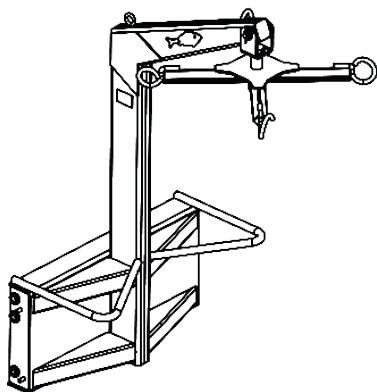
### • Optional accessories - Part II

The **PAM 500** has optional accessories that can be purchased according to the work needs.



#### **BLADE**

Model	Width (mm)	Height (mm)	Weight (kg)
PAM 500	2400	510	277



#### **BIG BAG - HOIST**

Model	Width (mm)	Load (kg)	Weight (kg)
PAM 500	1100	800	177

*Note: The lift height of the PAM 500 may have slight variations from tractor to tractor due to the tire model and tractor block height in relation to the ground.*

## ▪ Identification

### • Identification plate

In order to consult the parts catalogue or request technical support from Baldan, always indicate the model (1) serial number (2) and date of manufacture (3) which are on the identification plate of your **PAM 500**.

 <b>BALDAN</b> BALDAN IMPLEMENTOS AGRÍCOLAS S/A. AV. BALDAN, 1500   NOVA MATÃO CEP 15.993-900   MATÃO-SP   BRASIL FONE: (16) 3221-6500 CNPJ: 52.311.347/0009-06   CREA/SP 0170977		
01 → Modelo / Model	→ Data / Date 03	
02 → N° de Série / Serial Number	Tipo / Type	
Capacidade / Load Capacity	Peso / Weight	



## 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  
email: [posvenda@baldan.com.br](mailto:posvenda@baldan.com.br)



## PUBLICATIONS

Code: 60550109339 | CPT: PAM50012221A



## ▪ 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: \_\_\_\_\_

## ■ 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 the usage maintenance precautions.

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

Implement: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Date: \_\_\_\_\_ Tax Number: \_\_\_\_\_

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

Telephone: \_\_\_\_\_ CEP: \_\_\_\_\_

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

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

Telephone: \_\_\_\_\_

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

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

E-mail: \_\_\_\_\_

Sale date: \_\_\_\_\_

**Signature / Dealer Stamp** \_\_\_\_\_

**1st copy - Owner**





**▪ Inspection and Delivery Certificate**

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

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

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

Implement: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Date: \_\_\_\_\_ Tax Number: \_\_\_\_\_

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

Telephone: \_\_\_\_\_ CEP: \_\_\_\_\_

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

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

Telephone: \_\_\_\_\_

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

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

E-mail: \_\_\_\_\_

Sale date: \_\_\_\_\_

**Signature / Dealer Stamp** \_\_\_\_\_

**2nd copy - Dealer**



**▪ Inspection and Delivery Certificate**

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

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

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

Implement: \_\_\_\_\_ Serial Number: \_\_\_\_\_

Date: \_\_\_\_\_ Tax Number: \_\_\_\_\_

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

Telephone: \_\_\_\_\_ CEP: \_\_\_\_\_

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

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

Telephone: \_\_\_\_\_

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

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

E-mail: \_\_\_\_\_

Sale date: \_\_\_\_\_

**Signature / Dealer Stamp** \_\_\_\_\_

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

1.74.05.0059-5

AC MATÃO  
ECT/DR/SP

## RESPONSE CARD

NO STAMPING IS REQUIRED

THE STAMP WILL BE PAID BY:



**BALDAN IMPLEMENTOS AGRÍCOLAS S/A.**

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

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

[www.baldan.com.br](http://www.baldan.com.br) | email: [sac@baldan.com.br](mailto:sac@baldan.com.br)

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

email: [export@baldan.com.br](mailto:export@baldan.com.br)





Avenida Baldan, 1500  
Nova Matão  
15.993-900  
Matão/SP - Brasil  
[sac@baldan.com.br](mailto:sac@baldan.com.br)  
[export@baldan.com.br](mailto:export@baldan.com.br)

+55 16 3221 6500  
[baldan.com.br](http://baldan.com.br)