

Agricultural Front Attachments for Tractors



# Presentation

e appreciate the preference and would like to congratulate you for 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 it 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 regarding maintenance, safety, their obligations in eventual technical assistance, strict compliance with the warranty term and reading the instructions manual.

Any technical assistance request while in warranty must 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.



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.







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### Baldan Warranty

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

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

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



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



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.

## **1** 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 600/1100 in operation. When servicing the PAM 600/1100 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 600/1100 do not exceed a speed of 16 km/h or 10 MPH. avoiding the risk of damage and accidents.

### ATTENTION



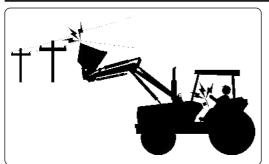
Pressurized hydraulic oil may cause serious injury if leaks occur.

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



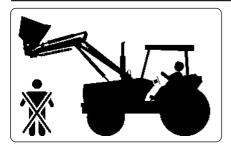
When maneuvering the PAM 600 /1100 in the elevated position, watch out for power lines, telephone liens, low tree branches and other overhead

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.



#### Warnings

• When operating with the PAM 600/1100 do not allow people to stand too close or on top of it.

Mhen carrying out any maintenance service, use the PPE equipment.

① Before connecting or disconnecting hydraulic hoses, relieve system pressure by activating the drive with the tractor turned off.

① 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.

No not wear loose clothing, as they may become entangled in the PAM 600/1100.

• 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 600/1100 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.

① 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 600/1100 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 600/1100 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 600/1100.

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.

① Do not work with the tractor with a light rear end. If the rear tends to lift, add more weight to the rear wheels.

(1) When leaving the tractor, place the gearshift lever in neutral position and set the parking brake. Never leave the PAM 600 1100 hitched to the tractor in the raised position of the hydraulic system.

All and any maintenance on the PAM 600/1100 must be performed with the equipment stationary and the tractor turned off.

No not leave the seat before locking the controls to prevent any movement.



### Warnings

① Operate the PAM 600/1100 from the driver's seat only. Do not release controls until movements are complete.

① 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 600/1100 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 600/1100 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



When PAM 600 is purchased with the SHB System,

the following components are includeded:

17. Fasteners and hoses

**18.** Pump

### Components

• PAM 600 - 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

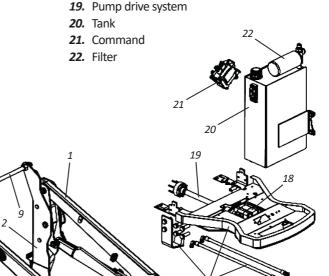
14. Hydraulic hoses

15. Joystick16. Wrench

13 -

12

14



SHB components may have different profiles for each tractor model.

**O** NOTE

18



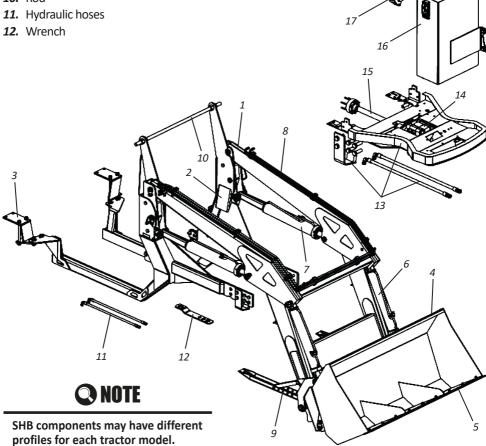
### Components

- PAM 1100 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. Pipes
- 9. Support footing
- **10.** Rod

When PAM 1100 is purchased with the SHB System, the following components are includeded:

- 13. Fasteners and hoses
- **14.** Pump
- 15. Pump drive system
- 16. Tank

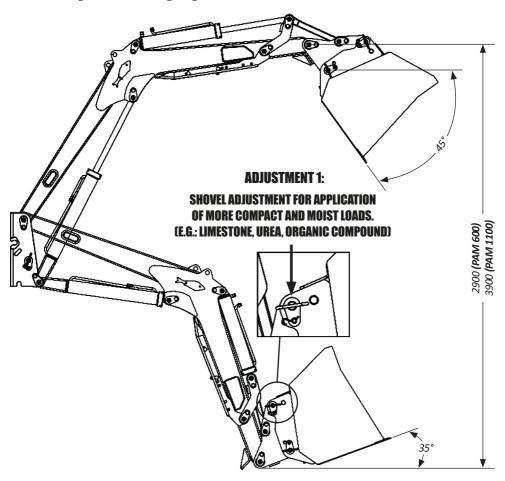






#### Dimensions

· Loading and unloading angles - Part I





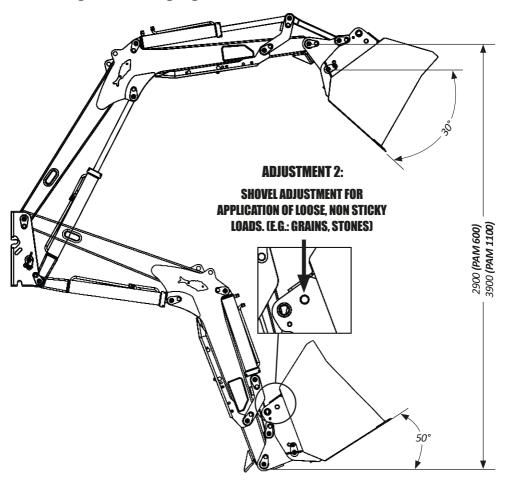
The lift height of the PAM 600/1100 may have slight variations from tractor to tractor due to the tire model and tractor block height in relation to the ground.

The inclination angle of the PAM 600/1100 may have slight variations from tractor to tractor due to equipment positioning and lift height.



### Dimensions

· Loading and unloading angles - Part II





The lift height of the PAM 600/1100 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 600/1100 may have slight variations from tractor to tractor due to equipment positioning and lift height.



### Specifications

• PAM 600/1100 - Agricultural Front Attachements Tractors

| Model      | Total<br>Width<br>(mm) | Capacity<br>(m³) | Lift Height<br>(mm) |
|------------|------------------------|------------------|---------------------|
| DAMA COO   | 1700                   | 0,600            | 2900 (*)            |
| PAM 600    | 1900                   | 0,700            | 2900 (*)            |
| PAM 1100   | 1700                   | 0,600            | 3900 (*)            |
| PAIVI 1100 | 1900                   | 0,700            | 3900 (*)            |

<sup>(\*)</sup> The lift height of the PAM 600/1100 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 600/1100**

- The **PAM 600/1100** was developed to provide more versatility to agricultural tractors, increasing their use and performance in the field At present, its use ranges from leveling the roads to more complex jobs such as supplying seeders during sowing, among other needs that field operations require.
- The PAM 600/1100 must be driven and operated only by a properly instructed operator.

#### PROHIBITED USE OF PAM 600/1100

- It is NOT allowed to use the **PAM 600/1100** to attach, tow or push other implement or accessories.
- The **PAM 600/1100** must NOT be used by an inexperienced operator who is not familiar with all the driving, control and operation techniques.



The PAM 600/1100 leaves the factory semi assembled, lacking the assembly of some components.

The PAM 600/1100 must be assembled by the reseller, through a person trained to do this task.

Before assembling the PAM 600/1100, look for an ideal place for easy identification of the parts and its assembly.

 $oldsymbol{\Lambda}$  Do not wear loose clothing as they may get caught in the **PAM 600/1100**.

#### Wrench

When assembling, disassembling or servicing the PAM 600/1100, use the wrench that comes with the modulated agricultural shovel.





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

#### Preparing the tractor

Before assembling the PAM 600/1100 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

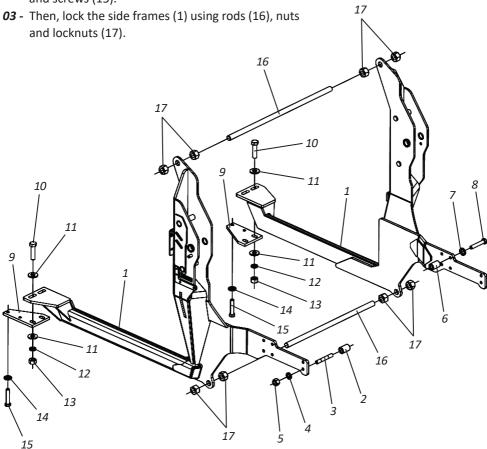


### Assembly

Assembling the PAM 600 side frames

To assemble the side frames, proceed as follows:

- 01 Attach the side frames (1) to the tractor using bushings (2), tie rods (3), spring washers (4), nuts (5), bushings (6), spring washers (7) and screws (8).
- **02** Then, secure the shoes (9) to the side frames (1) using screws (10), flat washers (11), spring washers (12), nuts (13) and to the tractor using spring washers (14) and screws (15).





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

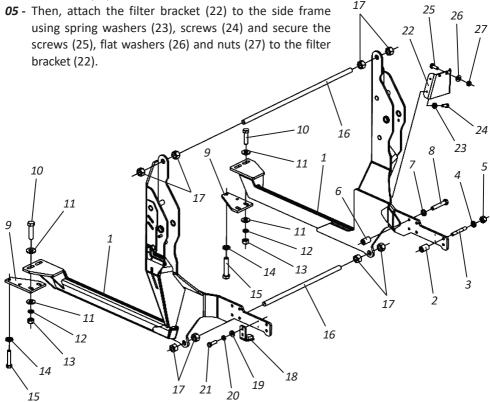


 Assembling the PAM 600 side frames for Valtra A800R/A850R/A950R and A990R and Massey Ferguson 4408, 4408S, 4409, 4410 with or without Joystick system

To assemble the side frames, proceed as follows:

- 01 Attach the side frames (1) to the tractor using bushings (2), tie rods (3), spring washers (4), nuts (5) bushings (6), spring washers (7) and screws (8).
- **02** Then, secure the shoes (9) to the side frames (1) using screws (10), flat washers (11), spring washers (12) nuts (13) and to the tractor using spring washers (14) and screws (15).
- 03 Then, lock the side frames (1) using rods (16), nuts and locknuts (17).

**04** - Then, secure the shoes (18) to the side frames (1) using flat washers (19), spring washers (20) and screws (21).



**O** NOTE

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

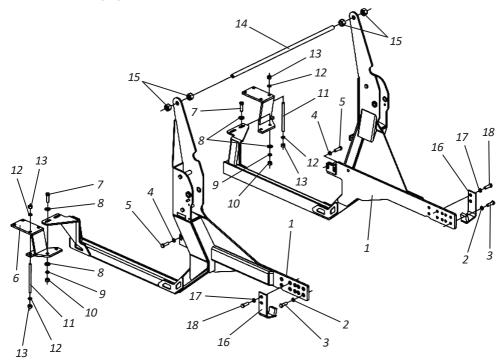


### Assembly

Assembling the PAM 1100 side frames

To assemble the side frames, proceed as follows:

- 01 Attach the side frames (1) to the tractor, securing using spring washers (2), screws (3) and spring washers (4) and screws (5).
- **02** Then, secure the shoes (6) to the side frames (1) using screws (7), flat washers (8), spring washers (9) nuts (10) and to the tractor using tie rods (11), spring washers (12) and nuts (13).
- 03 Then, lock the side frames (1) using a rod (14), nuts and locknuts (15).
- **04** Finish by attaching the supports (16) to the side frames (1) using spring washers (17) and screws (18).



# **ATTENTION**

After assembling the side frames (1), secure the supports (16) to reduce the pivot angle of the front axle.



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



Assembling the Baldan exhaust adapter

To assemble the Baldan exhaust adapter, proceed as follows: 01 - Attach the plate (1) to the side frame (2) using flat washers (3), spring washers (4) and screws (5). 02 - Then, attach the clamp (6) to the Baldan exhaust adapter (7), securing through the bracket (8), spring washer (9) and nuts (10). 03 - Then, attach the Baldan exhaust adapter (7) to the side frame (2) using the bracket (8), screws (11), flat washers (12), spring washers (13) and nuts (14). 04 - Finish fixing the tractor exhaust on the Baldan exhaust adapter (7) using screws (15) spring washers (16) and nuts (17). 16 10 The Baldan exhaust adapter (7) is 17 12 shipped with PAM only on tractor models requiring to change the tractor

NOTE

exhaust position.

Use the same exhaust set screws to secure the Baldan exhaust adapter (7) to the tractor.

14



### Assembly

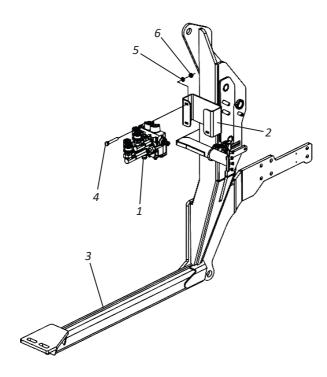
Assembling components

After assembling the Baldan exhaust adapter, secure the components included in the **PAM 600/1100** packaging box.

Assembling hydraulic drive (Rear attachment)

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

01 - Attach the hydraulic drive (1) on the plate (2) of the side frame (3), fastening it using screws (4), spring washers (5) and nuts (6).





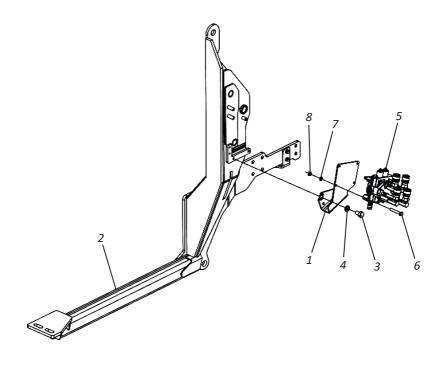
The plate (2) for fixing the hydraulic drive to the side frame may vary according to the tractor model.



Assembling hydraulic drive (Side attachment)

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

- 01 Attach the plate (1) to the side 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 attachment of the hydraulic drive on the side of the frame applies only to tractor models Valtra A800R, A850R, A950R and A990R and Massey Ferguson 4408, 4408S, 4409, 4410 BT Joystick/Baldan Drive.



### Assembly

Assembling joystick bracket (Optional)

To assemble the joystick support (1), proceed as follows:

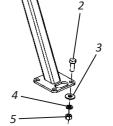
**01** - Attach the joystick support (1) to the tractor using screws (2), flat washers (3), spring washers (4) and nuts (5).



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



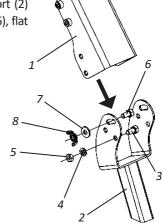
To attach the joystick support (1) it is necessary to drill holes in the tractor floor.



Assembling joystick fixation plate (Optional)

After assembling the joystick support, assemble the joystick fixation plate (1), 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).



**DETAIL "A** 



### Assembly

Assembling joystick (Optional)

To assemble the joystick (1), proceed as follows:

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

02 - Then assemble the joystick (1) to the joystick fixation plate (4), using screws (5), spring washers (6) and nuts (7) as shown in detail "A".



Assembling the joystick (1), make sure the cable (3) curves "smoothly" and does not bend if the cable (3) bends, the joystick (1) will be stiffer, causing excessive effort during the work and, accordingly, damaging the handle in the future.

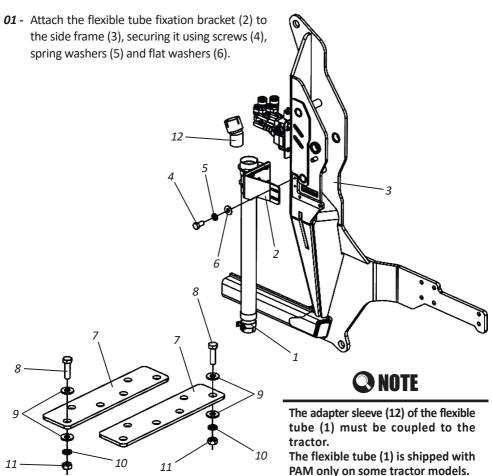


### Assembly

Assembling flexible tube



To assemble the flexible tube (1) on the tractor, proceed as follows:

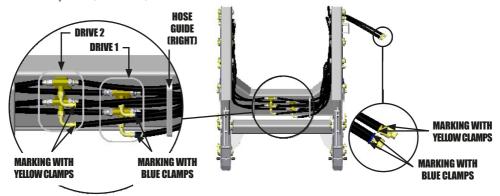


# **O** IMPORTANT

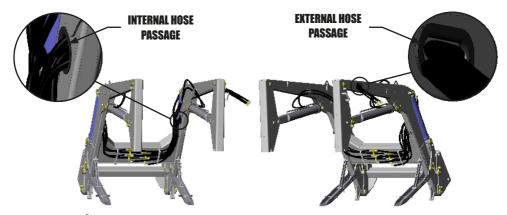
After securing the flexible tube and the tractor exhaust, secure the tractor rearview mirror again using the rearview mirror support (7), screws (8), flat washers (9), spring washers (10) and nuts (11).



 Assembling hydraulic hoses from the component box to the PAM 600 divider adapters (FACELIT)



- Assembling of hydraulic hoses from the component box for Baldan BT/SHB drive and PAM 600 tractor drive (FACELIT)
- 01 Mark the 4 hoses in the box with the blue and yellow clamps (delivered on the packaging), use the same color of clamp at each end per hose, that is, 2 hoses with blue clamps and 2 hoses with yellow clamps.
- 02 Pass the straight terminal ends of the 4 hoses through the RIGHT HOSE GUIDE.
- 03 Then, pass the same 4 straight terminal ends through the inner passage of the right arm.
- 04 Pull the 4 ends of the hoses through the outer passage of the right arm.



**O** NOTE

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

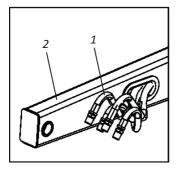


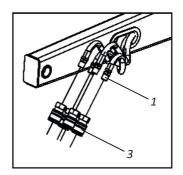
### Assembly

 Assembling of hydraulic hoses and PAM 600 component box bracket for LS Tractor and Valtra A2R with INTERFACE CONNECTION - Part I

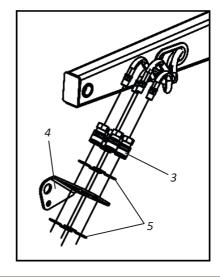
The **PAM 600** with interface connection has quick couplings to facilitate the connection and disconnection of hydraulic hoses in the attaching and detaching operations of the **PAM 600** on the tractor To assemble the hydraulic hoses on the **PAM 600** with Interface connection, proceed as follows:

- **01** Take the 4 hydraulic hoses (1) from the packaging box and pass the ends of the straight terminals through the inner passage of the right arm of the mobile support (2).
- **02** Then, take the female couplings (3) from the packaging box and attach them to the ends of the fixed male terminals of the hydraulic hoses (1).



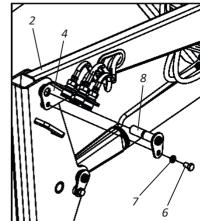


03 - Then, take the bracket (4) and the 8 snap rings (5) from the packaging box and lock the female couplings (3) on the support (4).

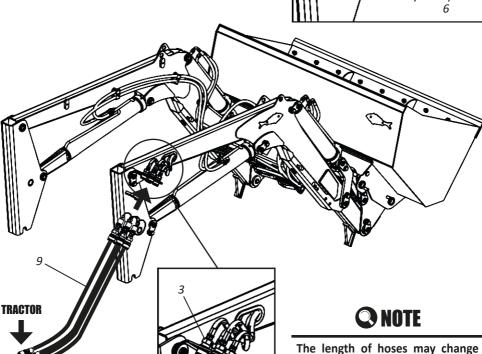




- Assembling of hydraulic hoses and PAM 600 component box bracket for LS Tractor and Valtra A2R with INTERFACE CONNECTION - Part II
- 04 Then, loosen the screw (6) spring washer (7) remove the pin (8) attach the bracket (4) to the mobile support (2) fixing with the same pin (8) spring washer (7) and screw (6).
- 05 Then, take the 4 hydraulic hoses (9) from the packaging box and connect them to the female quick couplings (3) and to the tractor connections.



depending on tractor model and type of hydraulic system layout.

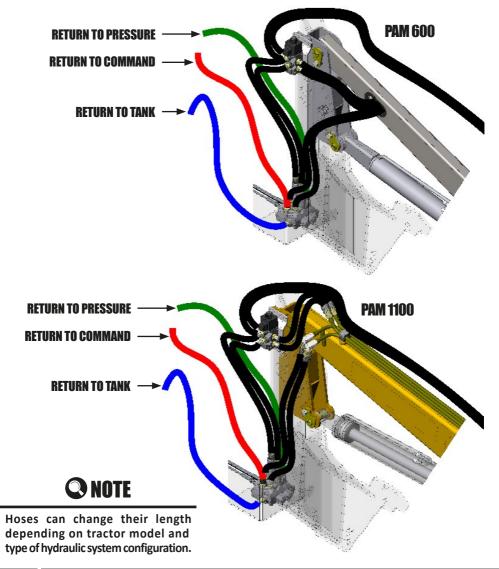




### Assembly

 Assembling of hydraulic hoses for PAM 600/1100 with joystick and electric directional valve

**PAM 600/1100** with joystick can be purchased with electric directional valve. To assemble the hydraulic hoses, proceed as follows:

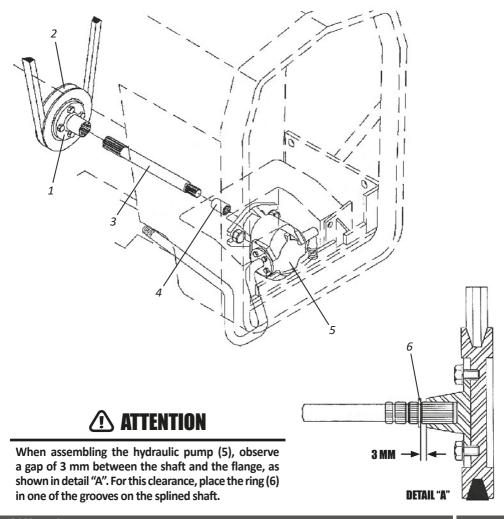




Assembling pump (SHB Hydraulic System) - PAM 600/1100

To assemble the pump (1) on the tractor when purchasing the **PAM 600/1100** with SHB system, proceed as follows:

- 01 Attach the flange (1) to the tractor crankshaft pulley, using screws (2).
- 02 Then, insert the splined shaft (3) together with bush (4) into the flange (1).
- 03 Then, secure the hydraulic pump (5) on the front bracket of the tractor.



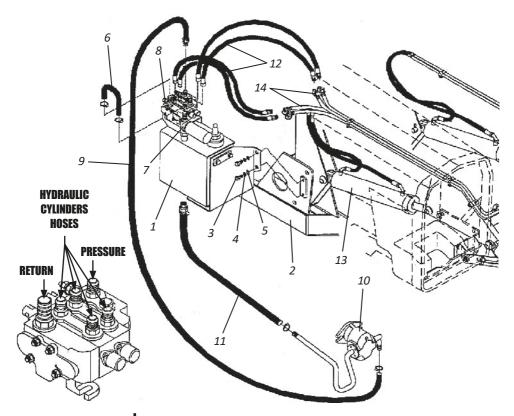


### Assembly

• Assembling SHB (Dual Drive) hydraulic system - PAM 1100

To assemble the SHB hydraulic system (dual drive), proceed as follows:

- **01** Attach the oil tank (1) to the side frame (2), fastening it using screws (3), spring washers (4) spring washers (5).
- 02 Then, attach the return hose (6) from the filter head (7) to the drive (8).
- **03** Then attach the pressure hose (9) at the pump outlet (10) to the drive (8) and the suction hose (11) between the pump pipe (10) and the lower oil tank outlet (1).
- **04** Then attach the hydraulic cylinders (13) drive hoses (12) between the drive (8) and the pipes (14).



**ATTENTION** 

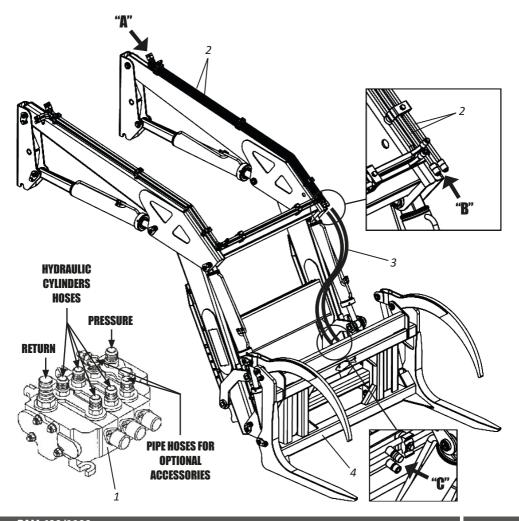
In addition to the PAM 1100, the above assembly also applies to non FACELIT system PAM 600.  $\,$ 



• Assembling SHB (Three-way Drive) hydraulic system - PAM 600/1100

To assemble the SHB hydraulic system (three-way drive), proceed as follows:

- **01** Attach the hoses between the drive (1) and the "A" points of the pipes for optional accessories (2).
- 02 Then, attach the hoses (3) to the "B" points of the pipes for optional accessories (2) and to the "C" points of the optional accessory (4).





### Assembly

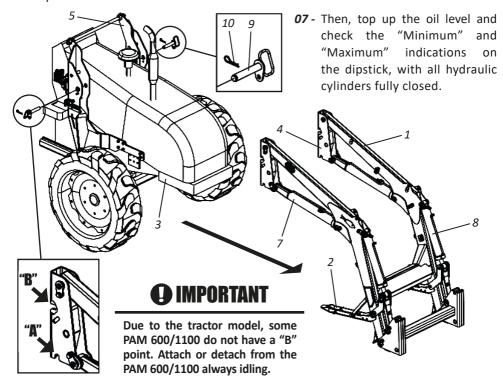
Assembling mobile support - Part I

# **ATTENTION**

Before assembling the mobile support, make sure there is no person near the tractor or the PAM 600/1100.

To assemble the mobile support, proceed as follows:

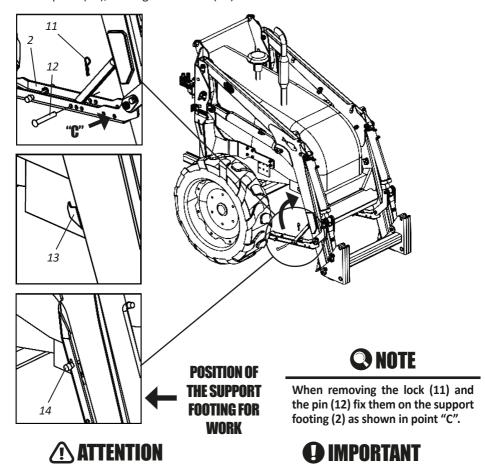
- 01 Find a flat location and position the mobile support (1) using the ground support (2).
- **02** Then, slowly bring the tractor (3) closer to the **PAM 600/1100**, centering the brackets (4) of the mobile support (1) between the side frames (5).
- 03 Next, activate the lifting cylinders (7) to tilt the bracket (4) backwards so that point "A" is first engaged on the side frames (5).
- 04 Then, activate the tilting cylinders (8) to engage point "B".
- **05** Next, attach the mobile support (1) to the side frames (5) using the pins (9) and locks (10).
- **06** Then, activate the control levers, proceeding with the movement until the end of the cylinders stroke. Check now for leaks.





## Assembly

- Assembling mobile support Part II
- **08** Lastly, release the lock (11), remove the pin (12), lift the support footing (2) to the hitch plate (13), locking the handle (14).



Do not mix oils of different brands and do not fill oil above the level. For the BT system (Tractor Pump), attach the hydraulic hoses to the tractor's rear outlets and for the SHB system (Baldan Hydraulic System), proceed as follows.

The BT (Tractor Pump) system is recommended for tractors with hydraulic oil flow above 51 l/min at 200 rpm.

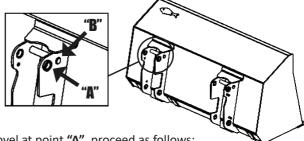
The SHB (Baldan Hydraulic System) system is recommended for tractors with hydraulic oil flow below 51 l/min to provide faster movement of the shovel.



## Assembly

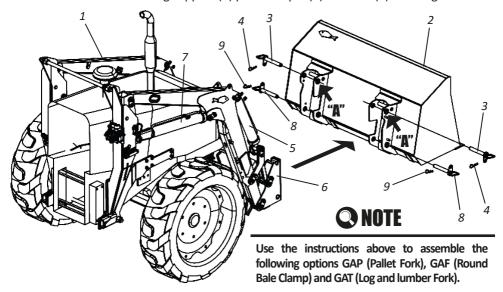
### Assembling hydraulic shovel

Before assembling the hydraulic shovel, choose which point "A" or "B" will assemble it. Each point will bring a different working angle.



To assemble the hydraulic shovel at point "A", proceed as follows:

- **01** Slowly bring the mobile support (1) towards the hydraulic shovel (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 hydraulic shovel (2).
- **03** Next, slowly activate the hydraulic cylinders (5) positioning the reversing support (6) and attach it to the "A" points of the hydraulic shovel (2).
- **04** Then, slowly activate the hydraulic cylinders (7) lifting the mobile support (1) and the hydraulic shovel (2) at this moment, center the hole of the hydraulic shovel (2) with the hole of the reversing support (6) place the pin (8) and lock (9) securing it.



IMPORTANT

At "B" points, it will not be necessary to use the pins (3) and locks (4) that are in the packaging box.

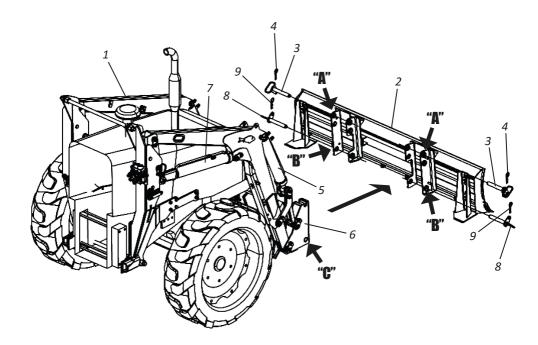


## Assembly

### Assembling 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 hole "B" of the blade (2) with the hole "C" of the reversing support (6) place the pin (8) and lock (9) securing it.



**NOTE** 

Use the instructions above to assemble the following options: Fork, BIG BAG and GAS (Silage Fork).



# Adjustments

### Adjusting tractor track width

When finishing the assembly of the **PAM 600/1100** check the free movement of the tractor's front tires, steering completely to both sides If necessary, adjust the track width.

# **O** 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.

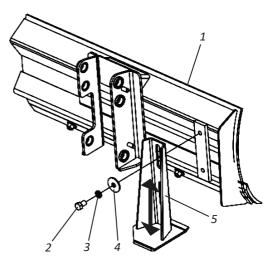
### Adjusting blade cutting depth

The blade (1) can be purchased optionally with the **PAM 600/1100.** 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.



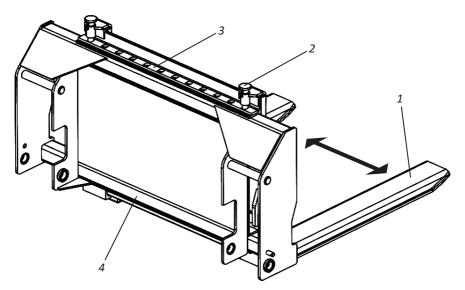


# Adjustments

Pallet Fork (GAP)

The pallet fork can be purchased optionally with the **PAM 600/1100.** When purchasing the **PAM 600/1100** with this accessory, before operating it, adjust the rods (1) increasing or decreasing its opening, according to the work needs. To adjust the rods (1) proceed as follows:

- 01 Pull the handle (2) upwards, unlocking the rod (1).
- 02 Then, adjust the rod (1) according to the work needs.
- 03 Next, release the handle (2), locking the rod (1) in one of the holes in the bar (3).



**ATTENTION** 

Before operating the PAM 600/1100 with the GAP coupled, make sure that the rods (1) are properly locked in one of the holes in the bar (3) through the handles (2). Ignoring this warning may cause serious accidents or equipment damage.

IMPORTANT

The adjustment of the rods (1) must be the same on both sides, centering them on the bracket (4). Ignoring this warning may cause serious accidents or equipment damage.

**O** NOTE

When operating the PAM 600/1100 with the GAP attached, do not allow people to stand near or under the accessory. Ignoring this warning may cause serious accidents or even death.



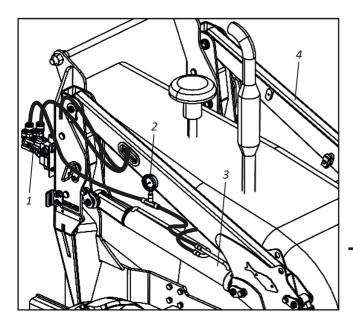
# Adjustments

Adjusting drive pressure

The hydraulic drivel 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 (4).





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

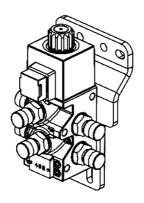
- **03** Keep the engine speed at **1500 rpm** and activate the drive lever, closing the cylinder completely; at this time, the pressure gauge will indicate the system pressure.
- **04** If there is a need for adjustment, break the seal on the drive and remove the protective cover.
- 05 Loosen the locknut 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

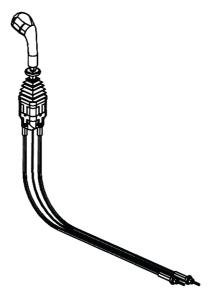
### • Electric directing valve

It increases one more stage in the hydraulic circuit without the need to change the hydraulic drive.



### Joystick

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





# Operations

- Recommendations for operation
- 01 After the first day of work with the PAM 600/1100 retighten all screws and nuts, check the condition of the pins and locks Afterwards, retighten all screws and nuts every 10 hours of work.
- 02 When operating with the PAM 600/1100, try not to use the front wheel.
- 03 Maintain travel speed compatible with operation and job 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 Attach to the tractor always at idle speed and very carefully.
- 06 The PAM 600/1000 is not designed for logging services.
- **07** When the **PAM 600/1000** is equipped with the GAS (Silage Fork), remove the silage from top to bottom, moving the hydraulic cylinder until the silage is released.
- 08 Never use front equipment to brake the tractor at speed.
- **09** When not operating the **PAM 600/1000** always keep it well supported on the ground.
- 10 When carrying out any maintenance on the PAM 600/1000 it must be lowered to the ground and the engine turned off.
- 11 When operating the PAM 600/1000 attached to the GAP (Pallet Fork), do not exceed the load capacity of 1000 kg Ignoring this warning could cause serious accidents or equipment damage.
- 12 When operating the PAM 600/1000 attached to the GAT (Log Fork), do not exceed the load capacity of 1000 kg Ignoring this warning could cause serious accidents or equipment damage.
- 13 When operating the PAM 600/1000 attached to the GAF (Agricultural Bale Fork), do not exceed the load capacity of 700 kg Ignoring this warning could cause serious accidents or equipment damage.
- 14 When operating the PAM 600/1000 attached to the WINCH, do not exceed the load capacity of 1000 kg Ignoring this warning could cause serious accidents or equipment damage.
- 15 Keep the drive pressure set between 150 and 160 bar.

If you have any doubts, please do not operate or handle the PAM 600/1100, contact the After Sales. Phone: 0800-152577 / E-mail: posvenda@baldan.com.br



## Operations

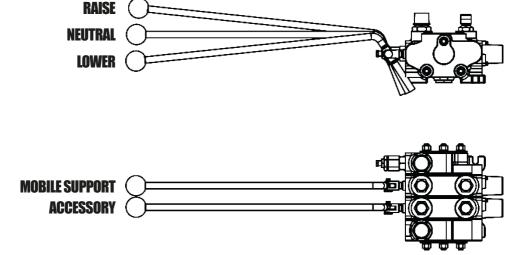
### Drive operations

Drive for SHB and BT is easy to handle, has two (2) or three (3) levers with three (3) types of positioning: **neutral**, **raise** and **lower** the accessory.

The speed for raising or lowering the equipment can be controlled by operating the lever Releasing the control lever in any position, during the raising or lowering movement, will return the lever to the neutral position and the equipment will remain in the position it was in when the lever was released.

The levers have simple functions, where one moves the mobile support upwards or downwards and the other moves the accessories fixed to the mobile support.

If there are more components, the three way drive with 3 levers is necessary, where the third handles the movement of the accessory with more components.



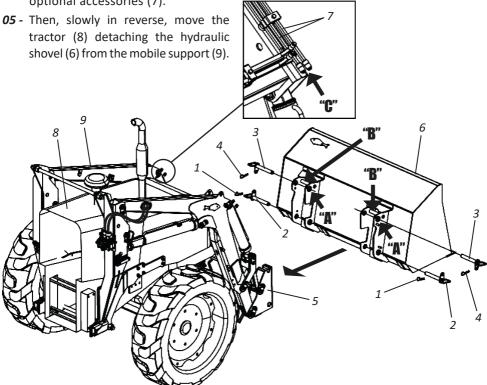


# Operations

Optional accessory exchange system - Part I

The **PAM 600/1100** is a modular equipment with several optional accessories, all with a coupling system in the structure To exchange optional accessories, proceed as follows:

- 01 Support the set to be removed on a flat location;
- 02 Then, release the locks (1) and remove the pins (2) on both sides if you are using the pins (3) and locks (4) at "A" points of the accessory that is attached, remove them as well
- **03** Next, gently activate the hydraulic drive lever until the reversing support (5) disengages from "B" point of the hydraulic shovel (6);
- **04** Then, in the optional accessories **(GAT, GAS** and **GAF)** having hydraulic hoses, turn off the engine, operate the levers a few times to remove the oil pressure from the system and uncouple the hydraulic hoses from the **"C"** points of the pipes for optional accessories (7).



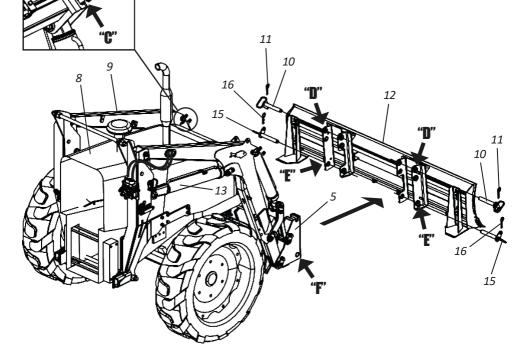


### Operations

- Optional accessory exchange system Part II
- 06 Then, place the pins (10) and locks (11) at "D" point of the blade (12).
- 07 Next, bring the tractor (8) slowly towards the blade (12).
- 08 Then, gently actuate the hydraulic drive lever until the reversing support (5) fits at "D" point of the blade (12).
- $\it 09$  Next, slowly activate the hydraulic cylinders (13) lifting the mobile support (9) and the blade (12); at this moment, center the hole "E" of the blade (12) with the hole "F" of the

10 - After fixing the locks (16), in the optional accessories (GAT, GAS and GAF) having hydraulic hoses, fix them at "C" point of the pipes for optional accessories (7).

reversing support (5), place the pins (15) and locks (16), 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

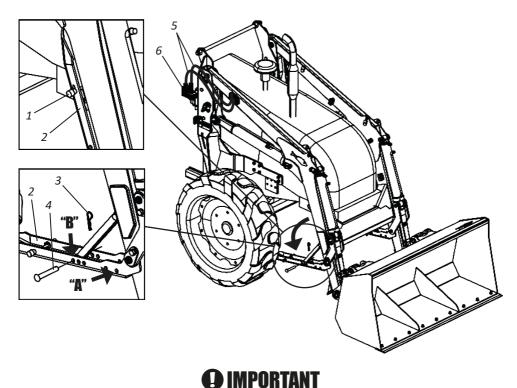
• Detaching from tractor - Part I



Before detaching, make sure there is no person near the tractor or the PAM 600/1100.

To detach the PAM 600/1100, proceed as follows:

- 01 Find a flat location and properly support the PAM 600/1100 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).

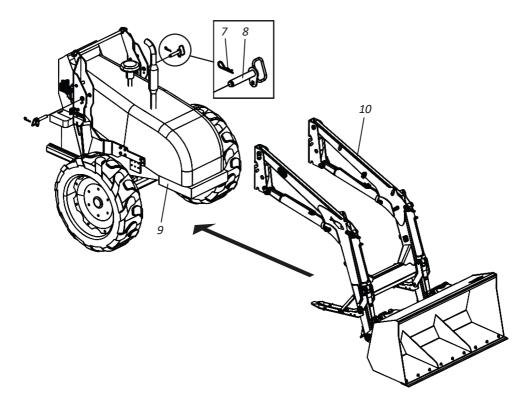


The PAM 600/1100 has a support footing (2) on both sides. When lowering the support footing (3), repeat this procedure on the other side, leaving both lowered in the same position.



### Operations

- Detaching from tractor Part II
- **04** Then, release the locks (7) and remove the pins (8).
- **05** Next, slowly move the tractor (9) in reverse away from the mobile support (10).



# **ONOTE**

To reattach the PAM 600/1100 to the tractor (9) reverse the detaching instructions.



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.

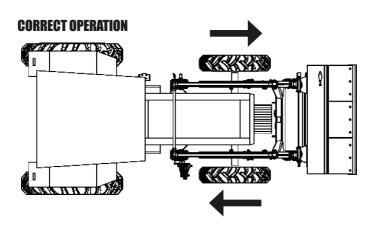


# Operations

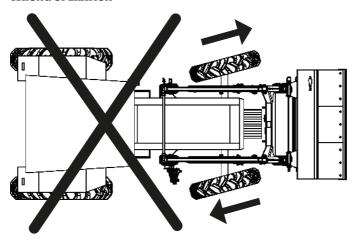
Operational care

### 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.



### **WRONG OPERATION**



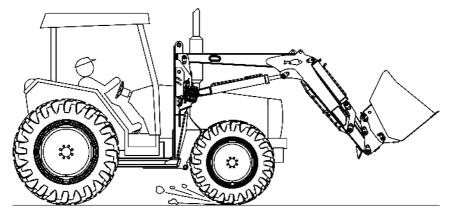


# Operations

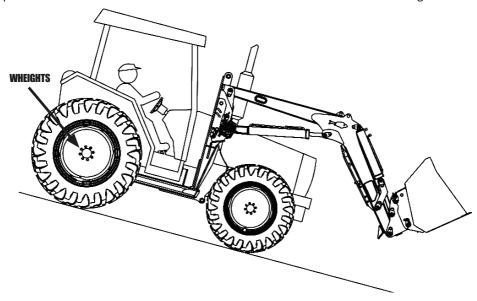
Operational care

#### TRACTOR - PART II

When working with the **PAM 600/1100**, avoid using the tractor's front traction, as if activated, it may damage its frame and even the tractor traction.



When moving the **PAM 600/1100** 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.



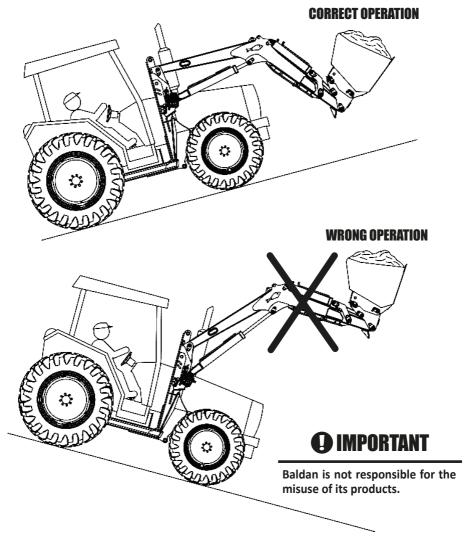


# Operations

Correct use

### FRONT LOADER - PART I

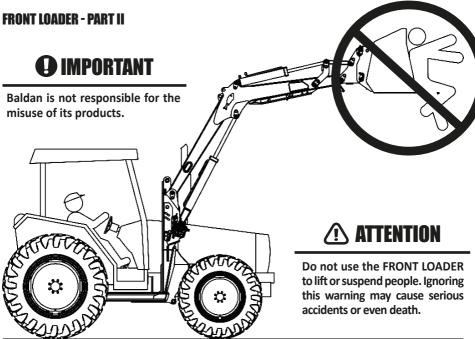
When climbing or descending steep terrain with the **PAM 600/1100** attached to the **FRONT LOADER**, make it always face the upper part of the slope, thus ensuring the stability of the machine and the safety of the operation.



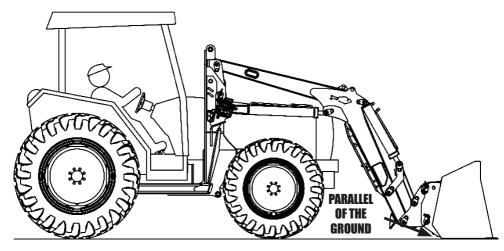


# Operations

Correct use



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





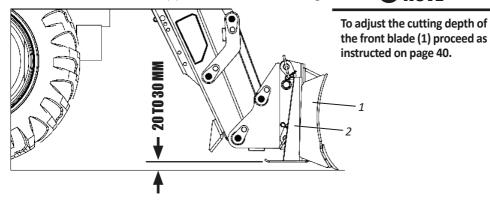
# Operations

Correct use

#### FRONT BLADE

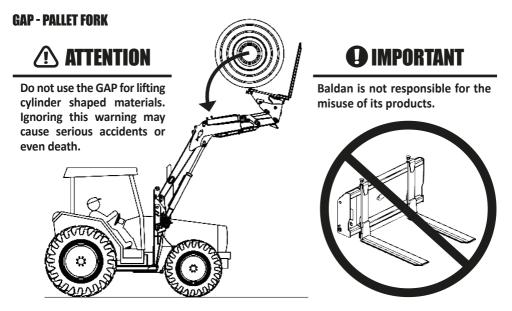
When operating the **PAM 600/1100** with the **FRONT BLADE** (1) attached, make sure the shoes (2) are 20 to 30 mm from the ground.







Incorrect use of the shovel or blade can damage the structure of the PAM 600/1100. E.g.: Work only with the tip of the shovel or blade in contact with the ground when removing materials.

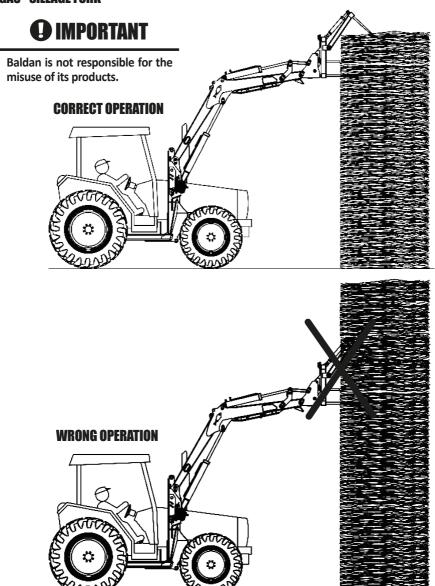




# Operations

Correct use

### **GAS - SILLAGE FORK**





# Operations

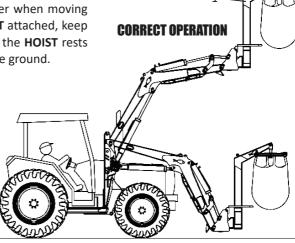
Correct use

### **BIG BAG - HOIST**

To avoid the risk of tipping over when moving the **PAM 600/1100** with the **HOIST** attached, keep the bracket fully retracted so that the **HOIST** rests against the bracket and close to the ground.

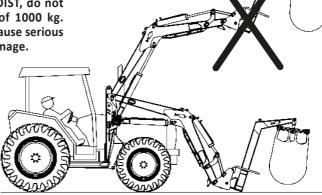
# **O** IMPORTANT

Baldan is not responsible for the misuse of its products.



# **ATTENTION**

When working with the HOIST, do not exceed the load capacity of 1000 kg. Ignoring this warning may cause serious accidents or equipment damage.



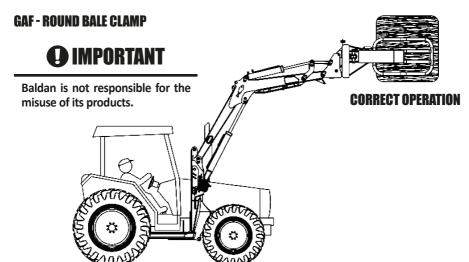
# **O** NOTE

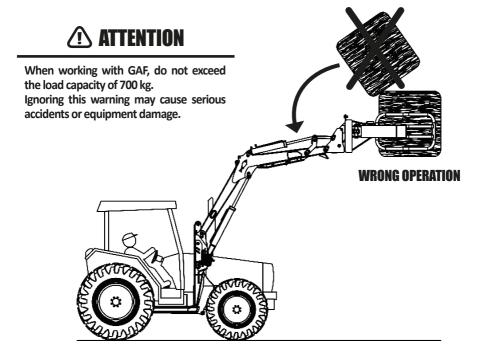
When lifting the HOIST to supply trucks or seeders, always look for flat ground and open the bracket as little as possible (1) as the further the HOIST is away from the tractor, the greater the risk of tipping and strain on the front axle, which may also cause structural damage to the PAM 600/1100 and particularly to the hydraulic cylinders.



## Operations

Correct use







### Maintenance

The **PAM 600/1100** has been developed to provide you with maximum yield under terrain conditions. Experience has shown that periodic maintenance of certain parts of the **PAM 600/1100** is the best way to help you to avoid any issues. Accordingly, following this recommendation is encouraged.



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 600/1100** 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 | Recommended grease types |
|--------------|--------------------------|
| 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           |
|              | Tutela Jota MP 2 EP      |
| Petronas     | Tutela Alfa 2K           |
|              | Tutela KP 2K             |

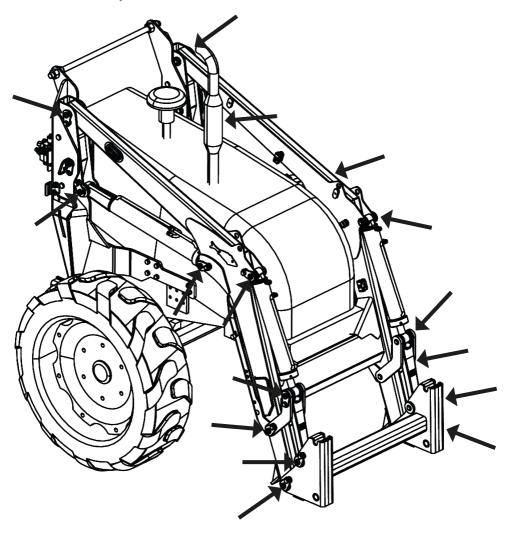


For manufacturers and/or equivalent brands not listed in the table, check the manufacturer's technical manual.



## Maintenance

• Lubricate every 10 hours of work



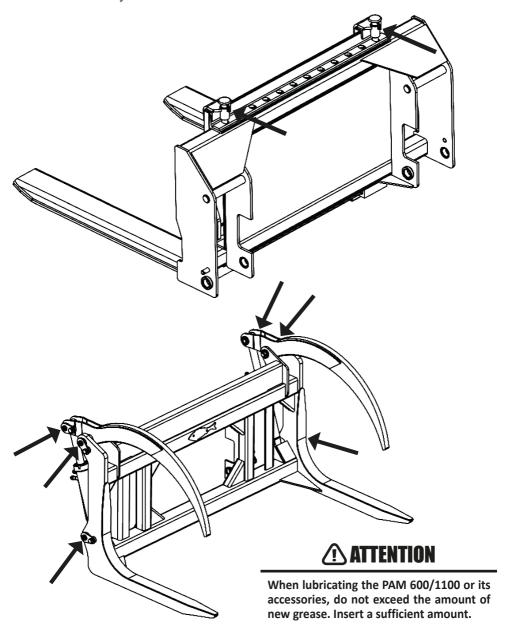


When lubricating the PAM 600/1100 or its accessories, do not exceed the amount of new grease. Insert a sufficient amount.



# Maintenance

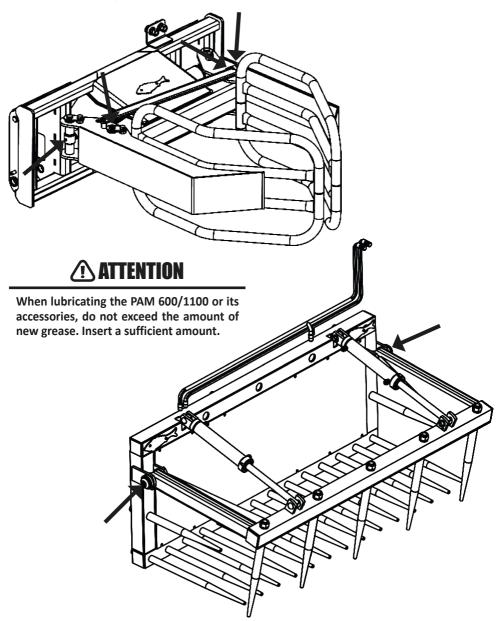
• Lubricate every 10 hours of work





### Maintenance

• Lubricate every 10 hours of work



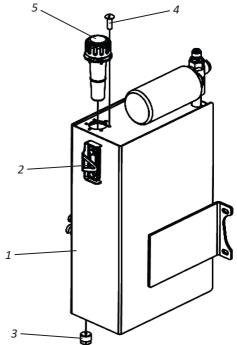


### Maintenance

• Changing oil and return filter for SHB models

To adjust the drive pressure, proceed as follows:

- 01 Fill the oil tank (1) and check the level indicated on the sight glass (2); check your PAM 600/1100 tank model to fill in the correct amount of oil.
- 02 Always use Tellus 68 oil of proven quality to ISO VG 68.
- 03 Oil level should be checked on a daily basis with hydraulic cylinders fully retracted.
- 04 Maintain the medium level indicated on the sight glass (2) of the oil tank (1).
- 05 The first change of oil and oil filter must be carried out after 50 hours of work; then, change the oil and oil filter every 300 hours.
- **06** Drain all the oil into the oil tank (1). To this end, fully activate the cylinders by opening them.
- **07** Turn off the engine, activate the levers, letting the equipment move slowly by gravity, closing the hydraulic cylinders.
- 08 Loosen the plug (3) and drain all the oil, collecting it in a suitable container.
- 09 At this moment, loosen the screws (4) and remove the return filter (5), turning it counterclockwise manually.
- **10** Apply a film of oil on the seal of the new filter and assemble it.
- 11 Replace the plug (3) and fill with good quality oil.
- 12 Tank capacity: 45 to 70 liters; hydraulic system capacity: 10 liters (approximately); total 55 or 80 liters.
- 13 Always check the oil level.





Never start the engine when changing oil.



### Maintenance

### Bleeding hydraulic system

When starting up for the first time and after each oil change, the **PAM 600/1100** must only be loaded after removing all the air from the system, that is, after bleeding, as instructed below:

- 01 Check the oil level.
- 02 Put the control lever in neutral position, start the engine for a few minutes at idle.
- 03 Accelerate the engine up to 1300 rpm (revolution per minute) and actuate the equipment control lever from neutral to the 2 ends alternately, placing the hydraulic cylinder rods outwards and inwards, but without reaching the stroke maximum.
- 04 After 15 minutes of bleeding, fully retract the hydraulic cylinder rods and top up the oil level.
- **05** When bleeding is carried out properly, there will be no noise in the hydraulic system, no foaming in the oil and the rods will work smoothly.
  - Hydraulic system for BT models
  - Maintain the hydraulic system as instructed in the tractor manual.
  - Never use oil of different brands.



### Maintenance

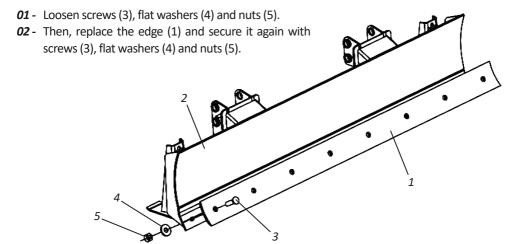
• Front loader (Optional)

When wearing the edge (1) of the front loader (2), replace it. Proceed as follows:

O1 - Loosen screws (3) flat washers (4) spring washers (5) and nuts (6).
O2 - Then, replace the edge (1) and fix it again with screws (3), flat washers (4), spring washers (5) and nuts (6).

• Front Blade (Optional)

When wearing the edge (1) of the front blade (2), replace it. Proceed as follows:





# Maintenance

# • Operational Maintenance - Part I

| PROBLEMS   | PROBABLE CAUSES                                     | SOLUTIONS  |  |
|--|---|--|--|
| Equipment moves  | Oil level too low.                                  | Top up the oil level.  |  |
| slowly, showing loss of power.                         | 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.                       |  |
|  | Sealing material on the screw thread is missing.    | Use thread sealant tape and retighten carefully.                         |  |
| Leak in hydraulic hoses.                               | Insufficient tightening.                            | Retighten carefully.   |  |
|  | Damaged repairs.                                    | Replace terminals.   |  |
| Leak in quick  | Insufficient tightening.                            | Retighten carefully without excess.                                      |  |
| couplers.  | Damaged repairs.                                    | Replace repairs.   |  |
| Equipment does not move.                               | Inverted hoses.                                     | Fit hoses correctly.   |  |
|  | Couplings of different brands.                      | Use couplings of the same brand.   |  |
| Quick couplers do not couple.                          | Mixture of needle couplings with ball 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   |
|--------------------------------|-----------------------------------|---|
|                                | Cylinder damaged.                 | Replace cylinder.   |
|                                | Damaged rod.                      | Replace rod.  |
| Leaking hydraulic<br>cylinder. | Oil with impurities.              | Replace oil, repairs and filter element.  |
| cymidei.                       | Drive pressure above recommended. | Regulate the drive through<br>the relief valve using a<br>pressure gauge.<br>Drive pressure at 150 bar. |

- Care
- **01** Before each task, check the condition of all hoses, pins and screws. If necessary, retighten them.
- 02 Travel speed must be carefully controlled according to terrain conditions.
- **03** The **PAM 600/1100** is used in several applications, requiring knowledge and attention during its handling.
- 04 Only local conditions will be able to determine the best form to operate the PAM 600/1100.
- 05 When assembling or disassembling any part of the PAM 600/1100, use suitable methods and tools.
- **06** Carefully observe the lubrication intervals at the various **PAM 600/1100** lubrication points.
- **07** Always check if the parts are worn. If replacement is required, always require genuine Baldan parts.



Proper and periodic maintenance is necessary to ensure the long life of the PAM 600/1100.



### Maintenance

- General cleaning
- 01 Before storing the PAM 600/1100, 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 600/1100 fully.
- 02 Fully lubricate the shovel. Check all the moving parts of the PAM 600/1100 if they are worn or loose, make the necessary adjustment or replace the parts, leaving the shovel ready for the next task.
- 03 When connecting or disconnecting 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 decals, particularly warning decals that are damaged or missing. Make everyone aware of their importance and the dangers of accidents when instructions are not followed.
- 05 After all maintenance precautions, store your PAM 600/1100 in a flat surface, covered and dry place, away from animals and children.
- 06 We recommend washing the PAM 600/1100 only with water at the start of work.



**ATTENTION** Do not use chemicals to wash the PAM 600/1100, as this could damage its paintwork.

Conservation of the PAM 600/1100 - Part I

To extend the life and appearance of the PAM 600/1100 longer, please follow the instructions below:

- 01 Wash and clean all PAM 600/1100 components during and at the end of the working season.
- 02 Use neutral products to clean the PAM 600/1100, following the safety and handling guidelines provided by the manufacturer.
- 03 Always perform maintenance within the periods indicated in this manual.
  - Conservation of the PAM 600/1100 Part II

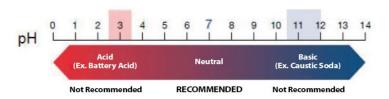
The practices and precautions below, if adopted by the owner or operator, make a difference to the conservation of the PAM 600/1100.

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



### Maintenance

- 02 Use only NEUTRAL detergent and water (pH equal to 7);
- 03 Apply the product, following the manufacturer's instructions strictly, on the wet surface and in the correct sequence, respecting the time of application and washing;
- 04 Stains and dirt not removed with the products should be removed with the aid of a sponge.
- 05 Rinse the machine with clean water to remove any chemical residues.
- 06 Do not use: Detergents with 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.

Do not use any other type of oil to protect the PAM 600/1100 (used hydraulic oil, "burnt" oil, diesel oil, castor oil, kerosene, etc.).

We recommend the following protective oils: - Bardahl: Agro protective 200 or 300 - ITWChemical: Zoxol DW - Series 4000

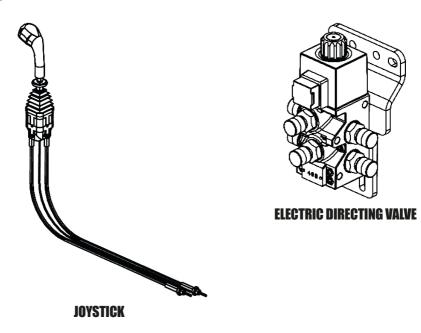
Ignoring the conservation measures mentioned above may result in the loss of warranty for painted or zinc-coated components which may exhibit oxidation



# Optional

Optional Systems

The **PAM 600/1100** has optional accessories that can be purchased according to the work needs.

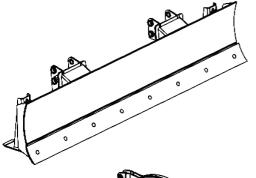




# Optional

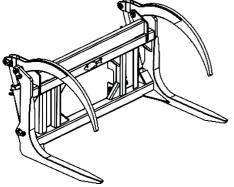
• Optional accessories - Part I

The **PAM 600/1100** has options that can be purchased according to the needs of the work.



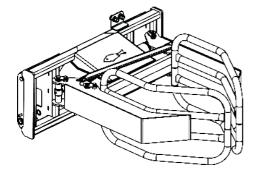
### **FRONT BLADE**

| Model    | Width<br>(mm) | Height<br>(mm) | Weigth<br>(kg) |
|----------|---------------|----------------|----------------|
| PAM 600  | 2150          | 430            | 190            |
|          | 2400          | 510            | 275            |
| PAM 1100 | 2400          | 510            | 275            |
|          | 2600          | 510            | 305            |



#### **GAT - LOG AND LUMBER FORK**

| Model    | Width<br>(mm) | Capacity<br>(kg) | Weigth<br>(kg) |
|----------|---------------|------------------|----------------|
| PAM 600  | 1650          | 1000             | 205            |
| PAM 1100 | 1650          | 1000             | 305            |



### **GAF - ROUND BALE CLAMP**

| Model    | Diameter<br>of Hay<br>(ø) | Capacity<br>(kg) | Weigth<br>(kg) |
|----------|---------------------------|------------------|----------------|
| PAM 600  | 500 a                     | 700              | 320            |
| PAM 1100 | 1500 mm                   | 700              | 320            |

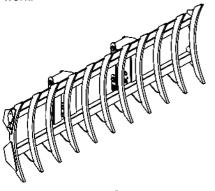
NOTE: The lift height of the PAM 600/1100 may have slight variations from tractor to tractor due to the tire model and tractor block height in relation to the ground.



# Optional

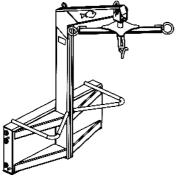
• Optional accessories - Part II

The **PAM 600/1100** has options that can be purchased according to the needs of the work.



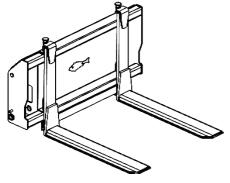
#### **FORK**

| Model    | Width<br>(mm) | Tynes | Weigth<br>(kg) |
|----------|---------------|-------|----------------|
| DAM 600  | 2300 / 2625   | 8/9   | 270 / 320      |
| PAM 600  | 2625          | 11    | 332            |
| PAM 1100 | 3175          | 13    | 492            |



### **BIG BAG - HOIST**

| Model    | Width<br>(mm) | Capacity<br>(kg) | Weigth<br>(kg) |
|----------|---------------|------------------|----------------|
| PAM 600  | 1100          | 1000             | 177            |
| PAM 1100 | 1100          | 1000             | 177            |



#### **GAP - PALLET FORK**

| Model    | Width<br>(mm) | Capacity<br>(kg) | Weigth<br>(kg) |
|----------|---------------|------------------|----------------|
| PAM 600  | 1000          | 1000             | 165            |
| PAM 1100 |               | 1000             | 165            |

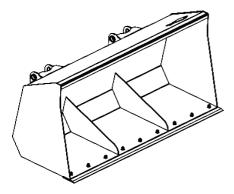
NOTE: The lift height of the PAM 600/1100 may have slight variations from tractor to tractor due to the tire model and tractor block height in relation to the ground.



# Optional

• Optional accessories - Part III

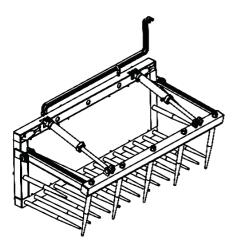
The **PAM 600/1100** has options that can be purchased according to the needs of the work.



### **FRONT LOADER**

| Model    | Total<br>Width<br>(mm) | Capacity<br>(m³) | Lift<br>Height<br>(mm) |
|----------|------------------------|------------------|------------------------|
| PAM 600  | 1700                   | 0,600            | 2900 (*)               |
|          | 1900                   | 0,700            | 2900 (*)               |
| PAM 1100 | 1700                   | 0,600            | 3900 (*)               |
|          | 1900                   | 0,700            | 3900 (*)               |

(\*) The inclination angle of the PAM 600/1100 may have slight variations from tractor to tractor due to equipment positioning and lift height.



**GAS - SILAGE FORK** 

| Model    | Width<br>(mm) | Volume<br>(m³) | Weigth<br>(kg) |
|----------|---------------|----------------|----------------|
| PAM 600  | 1600          | 0.75           | 210            |
| PAM 1100 | 1600          | 0,75           | 310            |

NOTE: The lift height of the PAM 600/1100 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

To see the parts catalog or to request technical assistance from Baldan, always inform model (01), serial number (02) and date of manufacture (03), which is on your **PAM 600/1100** nameplate.





The drawings in this Instruction Manual are merely illustrative.



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: 60550107832 | CPT: PAMB08821A



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### **Instruction Manual**



#### 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 |  |
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PAM 600/1100 75



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:                   |                  |  |
|                          |                  |  |
|                          | Number:          |  |
| City:                    | State:           |  |
| E-mail:                  |                  |  |
| Sale date:               |                  |  |
|                          |                  |  |
| Signature / Dealer Stamp |                  |  |



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| Implement:               | Serial Number: |  |
|--------------------------|----------------|--|
| Date:                    | Tax Number:    |  |
| Dealer:                  |                |  |
| Telephone:               | _ CEP:         |  |
| City:                    | State:         |  |
| Owner:                   |                |  |
| Telephone:               |                |  |
| Address:                 | Number:        |  |
| City:                    | State:         |  |
| E-mail:                  |                |  |
| Sale date:               |                |  |
|                          |                |  |
| Signature / Dealer Stamp |                |  |



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| 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**

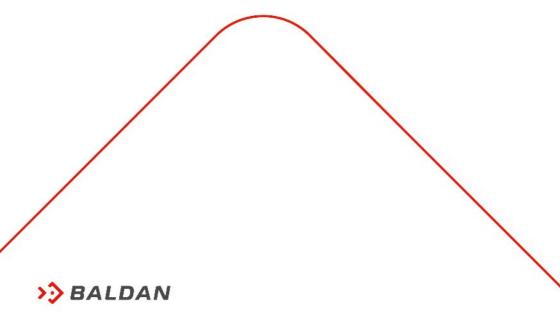
**NO STAMPING IS REQUIRED** 

#### THE STAMP WILL BE PAID BY:



#### BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

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