

# ***Instruction Manual***



**FC 600**  
Fast Clean

 **BALDAN**



## ▪ Presentation

**A** We thank you for your preference and congratulate you on 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 procedures that are required from your purchase to the procedures operational use, safety and maintenance.

**BALDAN** guarantees that it has delivered this implement to the dealer complete and in perfect condition.

The dealer took responsibility for its safekeeping and conservation during the period it was in his possession, and also for the assembly, retightening, lubrication, and general overhaul.

In the technical delivery, the dealer must guide the user customer about maintenance, safety, his obligations in eventual technical assistance, the strict observance of the warranty term and the reading of the instruction manual.

Any request for warranty service should be made to the dealer where it was purchased.

We reiterate the need to read the warranty certificate carefully and to observe all the items in this manual, as this will increase the life of your implement.



# ***Instruction Manual***



## **FC 600**

Fast Clean

BALDAN IMPLEMENTOS AGRÍCOLAS S/A.  
CNPJ: 52.311.347/0009-06  
Insc. Est.: 441.016.953.110



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device and access this  
Instruction Manual online.

 **BALDAN**



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## ▪ Baldan Warranty

**BALDAN IMPLEMENTOS AGRÍCOLAS S/A** guarantees the normal operation of the implement to the dealer for a period of 6 (six) months from the date of delivery on the resale invoice to the first end consumer.

During this period, **BALDAN** undertakes to repair defects in material and/or manufacturing under its responsibility, with labor, freight and other expenses being the responsibility of the reseller.

During the warranty period, any defective parts must be requested and replaced by the local dealer, who will send the defective part to **BALDAN** for analysis.

When such procedure is not possible and the reseller's ability to resolve the problem has been exhausted, the reseller will request support from **BALDAN** Technical Assistance, using the specific form distributed to dealers.

After analysis of the replaced items by **BALDAN's** Technical Assistance, and the conclusion that this is not a guarantee, the dealer will be responsible for the costs related to the replacement, as well as the costs of materials, travel including accommodation and meals, accessories, lubricant used and other expenses arising from the call to the Technical Assistance, and **BALDAN** is authorized to invoice the dealer.

**BALDAN** will only authorize any repairs made to a product within the dealer's warranty period upon presentation of a quotation describing the parts and labor to be carried out.

The product that undergoes repairs or modifications by official dealers who do not belong to the **BALDAN** dealer network, as well as the application of non-genuine parts or components to the user's product, is excluded from this term.

This warranty shall become null and void when it is established that the defect or damage is the result of improper use of the product, failure to follow the instructions or the inexperience of the operator.

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

Manufacturing and/or material defects, the subject of this warranty term, will not, under any circumstances, constitute a reason for termination of the purchase and sale contract, or for compensation of any nature.

**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.

## ▪ General Information

### • To the owner

**BALDAN IMPLEMENTOS AGRÍCOLAS S/A**, shall not be held liable for any damage caused by an accident arising from the improper or incorrect use, transportation or storage of its improper or incorrect storage of your implement, whether due to the negligence and/or inexperience of any person.

Only people who have full knowledge of the tractor and implement should transport and operate them.

**BALDAN shall not be held liable for any damage caused by unforeseeable situations or situations outside the normal use of the implement.**

***Incorrect handling of this equipment can result in serious or fatal accidents. Before putting the equipment into operation, read the instructions in this manual carefully. Make sure that the person responsible for the operation is instructed in correct and safe handling. Also make sure that the operator has read and understood the product's instruction manual.***



### **ATTENTION**

NR-31 - SAFETY AND HEALTH AT WORK IN AGRICULTURE, LIVESTOCK FARMING, FORESTRY AND AQUACULTURE.

The purpose of this Regulatory Standard is to establish the precepts to be observed in the organization and working environment, in order to make the planning and development of agricultural, livestock, forestry, logging and aquaculture activities compatible with occupational safety and health and the environment.

MR. OWNER OR OPERATOR OF THE EQUIPMENT.

Read and comply carefully with NR-31.

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

## ▪ Safety regulations

### • To the operator



THIS SYMBOL INDICATES AN IMPORTANT SAFETY WARNING. IN THIS MANUAL, WHENEVER YOU COME ACROSS IT, READ THE FOLLOWING MESSAGE CAREFULLY AND BE AWARE OF THE POSSIBILITY OF PERSONAL INJURY.

#### **ATTENTION**



Read the instruction manual carefully to understand the recommended safety practices.

#### **ATTENTION**



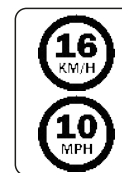
Only start operating the tractor when you are properly seated and have your seat belt fastened.

#### **ATTENTION**



Do not make adjustments while the FC 600 is running. When carrying out any work on the FC 600, switch off the tractor first. Use suitable tools.

#### **ATTENTION**



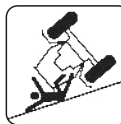
When transporting the FC 600, do not exceed a speed of 16 Km/h or 10 MPH, to avoid the risk of damage and accidents.

#### **ATTENTION**



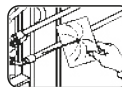
Do not transport people on the tractor or in or on the equipment.

#### **ATTENTION**



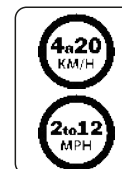
There is a risk of serious injury from tipping over when working on slopes. Do not use excessive speed.

#### **ATTENTION**



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

#### **ATTENTION**



When working with the FC 600, do not exceed a speed of 4 to 20 km/h or 2 to 12 MPH, to avoid the risk of damage and accidents.

#### **ATTENTION**



Do not operate the tractor if the front is without sufficient ballast for the rear equipment. If there is a tendency to lift, add weights or ballast to the front or front wheels.

#### **ATTENTION**



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

#### **ATTENTION**



Always keep access and work areas clean of residues such as oil or grease, as these can cause accidents.

#### **ATTENTION**



Before starting work or transporting the FC 600, check that there are no people or obstructions near it.



## ▪ Safety regulations

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

### **! ATTENTION**



Avoid heating parts near fluid lines.  
Heating can cause brittleness in the material, breakage and escape of pressurized fluid, which can cause burns and injuries.

### **! ATTENTION**



- Do not drink water from the 30-liter tank for clean water, as it is unfit for human consumption "non-drinkable water".

Ignoring this warning could cause health risks.

### **! ATTENTION**



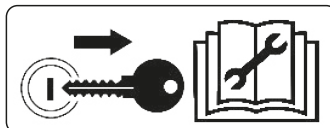
Hydraulic oil under pressure can cause serious injury if it leaks. Periodically check the state of repair of the hoses. If there are signs of leaks, replace immediately. Before connecting or disconnecting the hydraulic hoses, relieve the pressure in the system by operating the control with the tractor switched off.

### **! ATTENTION**



Never use chemical products without proper protection, thus avoiding contact with the skin.

### **! ATTENTION**



Remove the ignition key before carrying out any maintenance on the FC 600. Protect yourself from possible injury or death caused by an unforeseen starting of the FC 600.  
If the FC 600 is not properly engaged, do not start the tractor.

### **! ATTENTION**



The degradation of the environment affects everyone. May our daily actions help to restore it. Make sure that the management of chemicals does not contribute to this degradation.

### **! ATTENTION**



- Disposing of waste improperly affects the environment and ecology, as it pollutes rivers, canals and the soil.

Find out the correct way to recycle or dispose of waste.

### **! ATTENTION**



Always observe the recommendations on the packaging of the chemical product before you buy it and before you use it. By not reading these recommendations you could misuse the product, thus affecting people, animals and yourself, causing serious illness or even death.

When emptying the packaging of the chemical product, do not throw it into rivers or lakes, proceed according to the instructions on the packaging, if you do not have information, contact the competent authority in your region.  
Observe the triple washing recommendation for chemical product packaging.

## ▪ Safety standards

### • PPE Equipment

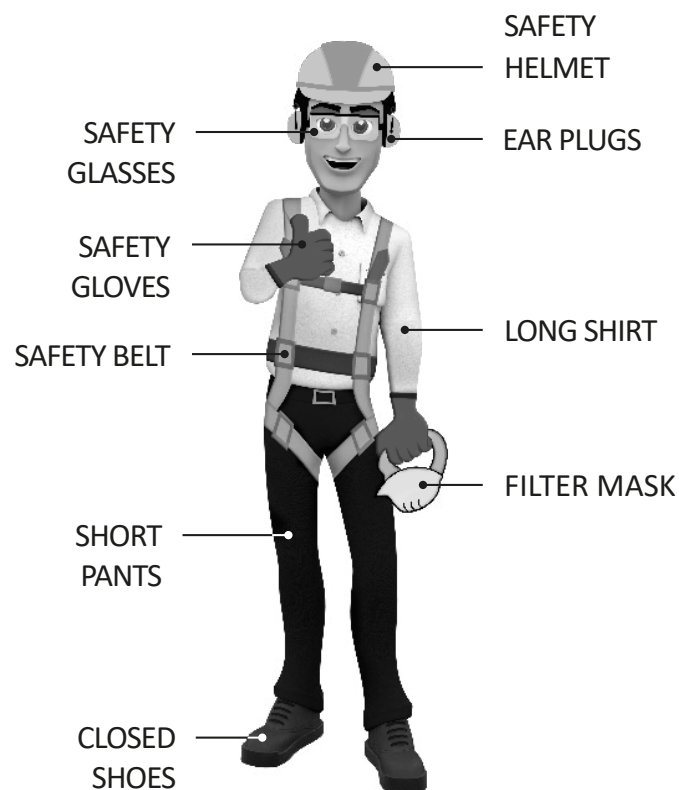


### ATTENTION

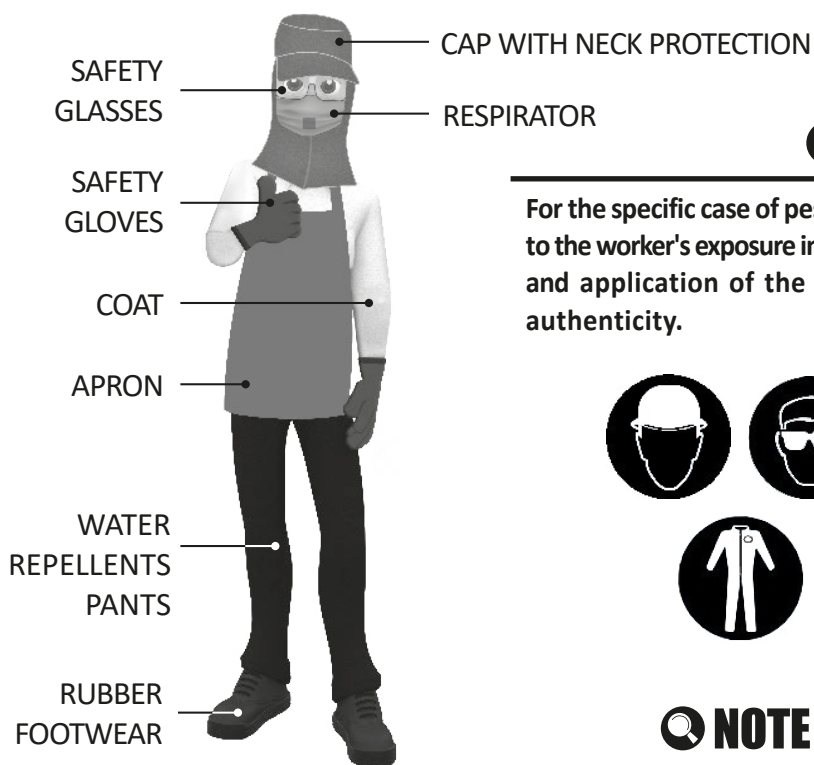
DO NOT WORK WITH THE FC 600 WITHOUT FIRST PUTTING ON THE EPIS (SAFETY EQUIPMENT). IGNORING THIS WARNING MAY RESULT IN HARM TO HEALTH, SERIOUS ACCIDENTS OR DEATH.

When performing certain procedures with the **FC 600**, put on the following PPE below:

#### PPEs - OPERATION AND MAINTENANCE



#### PPE - PREPARATION AND APPLICATION OF THE SYRUP



### ! IMPORTANT

For the specific case of pesticides, different PPEs are mandatory according to the worker's exposure in the stages of transportation, storage, preparation and application of the mixture. All PPE must have a certificate of authenticity.



### NOTE

All PPE must have a certificate of authenticity.

## ■ Warnings

- ⚠ When operating the FC 600, do not allow people to stand too close to or on it.
- ⚠ Before starting to assemble the FC 600, look for an ideal location where it is easy to identify the parts and assemble it.
- ⚠ Wear PPE when carrying out any maintenance work.
- ⚠ Before connecting or disconnecting the hydraulic hoses, relieve the system pressure by operating the control with the tractor switched off.
- ⚠ Periodically check the state of repair of the hoses. If there are signs of a leak, replace the hoses immediately, as they can cause serious accidents under high pressure.
- ⚠ Don't wear clothes that are too loose, as they could get tangled in the FC 600.
- ⚠ When starting the tractor engine, make sure you are properly seated in the operator's seat and are fully aware of the correct and safe handling of both the tractor and the FC 600. Always put the gearshift lever in the neutral position, disconnect the PTO control gear and put the hydraulic controls in the neutral position.
- ⚠ Do not run the tractor engine in an enclosed space without adequate ventilation, as the exhaust fumes are harmful to your health.
- ⚠ When maneuvering the tractor to attach the FC 600, make sure you have the necessary space and that no one is too close, always maneuver in low gear and be prepared to brake in an emergency.
- ⚠ Do not make adjustments while the FC 600 is running.
- ⚠ When working on slopes, proceed with caution and always try to maintain the necessary stability. If you start to feel unbalanced, reduce acceleration, turn the wheels to the side of the slope and never lift the FC 600.
- ⚠ Always drive the tractor at speeds that are compatible with safety, especially when working on rough terrain or slopes, always keep the tractor coupled.
- ⚠ When driving the tractor on roads, keep the brake pedals connected.
- ⚠ Do not operate the tractor if the front end is light. If there is a tendency to lift, add more weights to the front or front wheels.
- ⚠ When leaving the tractor, put the gearshift lever in neutral and apply the parking brake. Never leave the FC 600 coupled to the tractor in the raised position of the hydraulic system.
- ⚠ Any maintenance on the FC 600 must be carried out when it is stationary and the tractor is switched off
- ⚠ Do not drive on highways, especially at night. Use warning signs all along the route.
- ⚠ If you need to drive the FC 600 on the roads, check with the traffic authorities.

## ▪ Warnings

- ⚠ Do not allow the FC 600 to be used by people who have not been trained, i.e. who do not know how to operate it correctly.
- ⚠ Keep chemical products closed in a dry and ventilated place.
- ⚠ Do not use chemical products for purposes other than those specified on the label.
- ⚠ Keep children, untrained persons or animals away from the application or adjustment areas.
- ⚠ Handle chemical products following the recommendations of a qualified professional.
- ⚠ Always handle chemical products in a ventilated area and use the PPE recommended on the product packaging.
- ⚠ Use the application rate described on the label.
- ⚠ Never blow on blocked nozzles, valves or hoses with your mouth.
- ⚠ Do not transport or store chemical products together with food, medicines, people or animals.
- ⚠ Make sure that rivers and lakes are not contaminated when you wash your FC 600.
- ⚠ In case of poisoning, seek medical attention immediately, taking the product label with you.
- ⚠ Do not transport or work with the FC 600 near obstacles, rivers or streams.
- ⚠ People may not be transported in self-propelled machines and implements.
- ⚠ Changes to the original characteristics of the FC 600 are not authorized, as they may alter safety, operation and affect service life.
- ⚠ Read all the safety information in this manual and on the FC 600 carefully.
- ⚠ Read or explain all the procedures in this manual to an operator who cannot read.
- ⚠ Always check that the FC 600 is in perfect working order. In the event of any irregularity that could interfere with the operation of the FC 600, have it serviced before any work or transportation is carried out.
- ⚠ Maintenance, and especially inspection of the FC 600's risk zones, must only be carried out by a trained or qualified worker, observing all safety guidelines. Before starting maintenance, disconnect all ignition systems from the FC 600.
- ⚠ Periodically check all the components of the FC 600 before using it.

## ■ Warnings

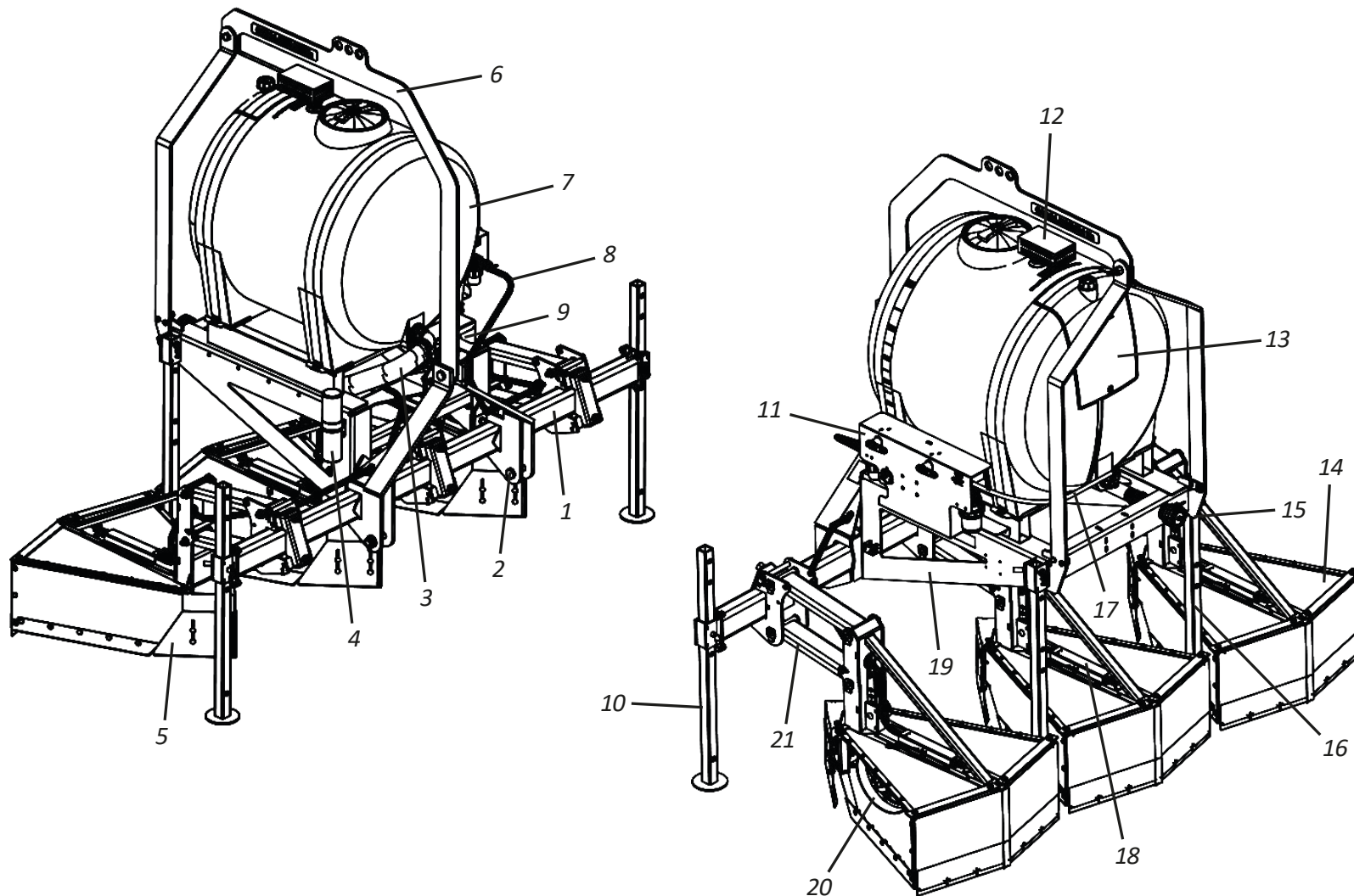
- ⚠ Check the minimum tractor power recommended for each FC 600 model. Only use a tractor with power and ballast compatible with the load and topography of the terrain.
- ⚠ Depending on the equipment used and the working conditions in the field or maintenance areas, precautions are necessary. Baldan has no direct control over precautions, so it is the owner's responsibility to put safety procedures into practice while working with the FC 600.
- ⚠ When transporting the FC 600, travel at speeds compatible with the terrain and never higher than 16 Km/h. This reduces maintenance and consequently increases the service life of the FC 600.
- ⚠ Alcoholic beverages or certain medications can cause a loss of reflexes and alter the operator's physical condition. Therefore, never operate the FC 600 while under the influence of these substances.
- ⚠ Read or explain all the procedures in this manual to the user who cannot read.

If you have any questions, please contact After Sales.  
Phone: 0800-152577 / E-mail: [posvenda@baldan.com.br](mailto:posvenda@baldan.com.br)

## ■ Components

### • FC 600 - Fast Clean Double Alternating Planting - Without Platform

1. Frame
2. Category II hitching pin
3. Supply system hose
4. Manual container
5. Front trolley support
6. Lifting support
7. Main tank 600 liters
8. Pressure hose
9. Flow monitor
10. Front support bracket
11. Control panel
12. Agitator valve
13. Clean water tank 30 liters
14. Canvas
15. Buffer
16. Rear support bracket
17. Pressure return hose
18. Nozzle sensor protection
19. Tank Bracket
20. Height control wheel
21. Pantograph trolley

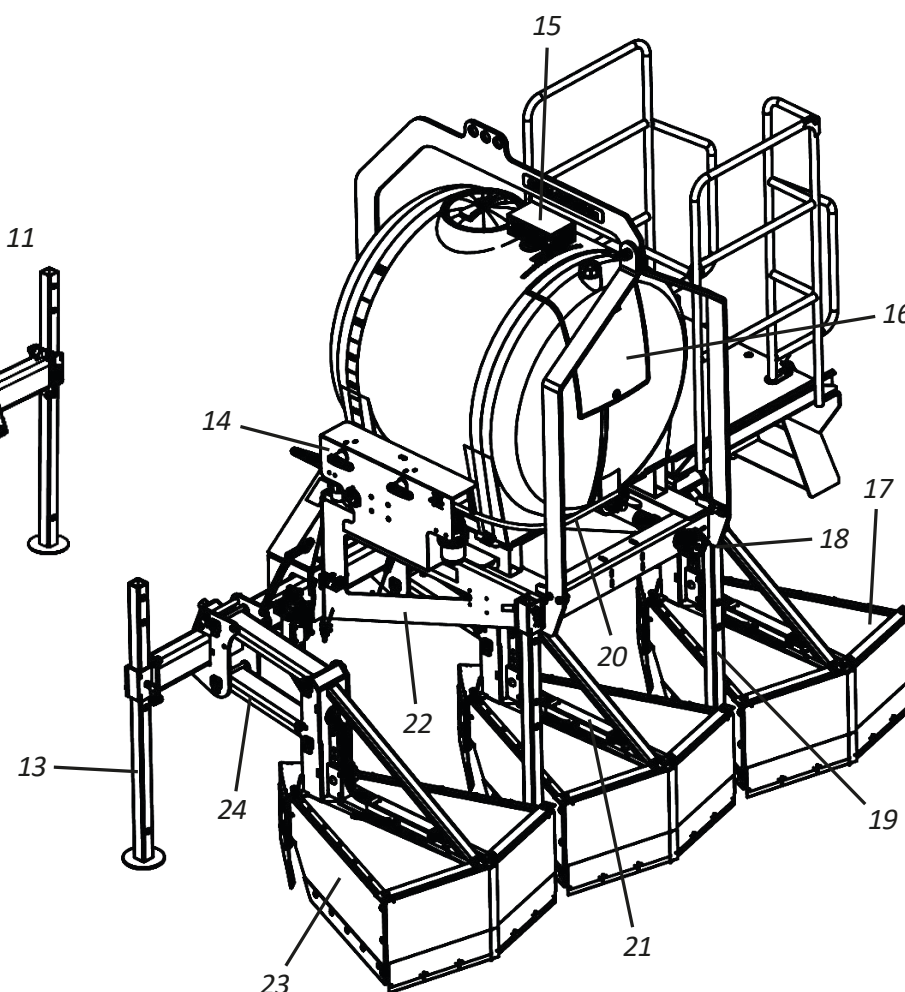
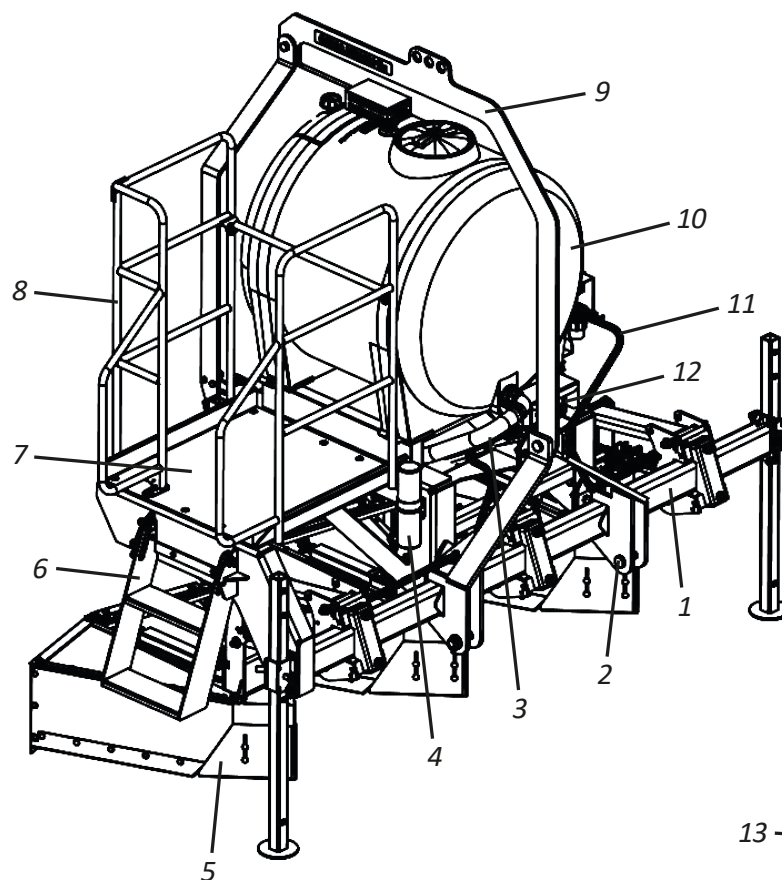




## Components

### • FC 600 - Fast Clean Double Alternating Planting - With Platform

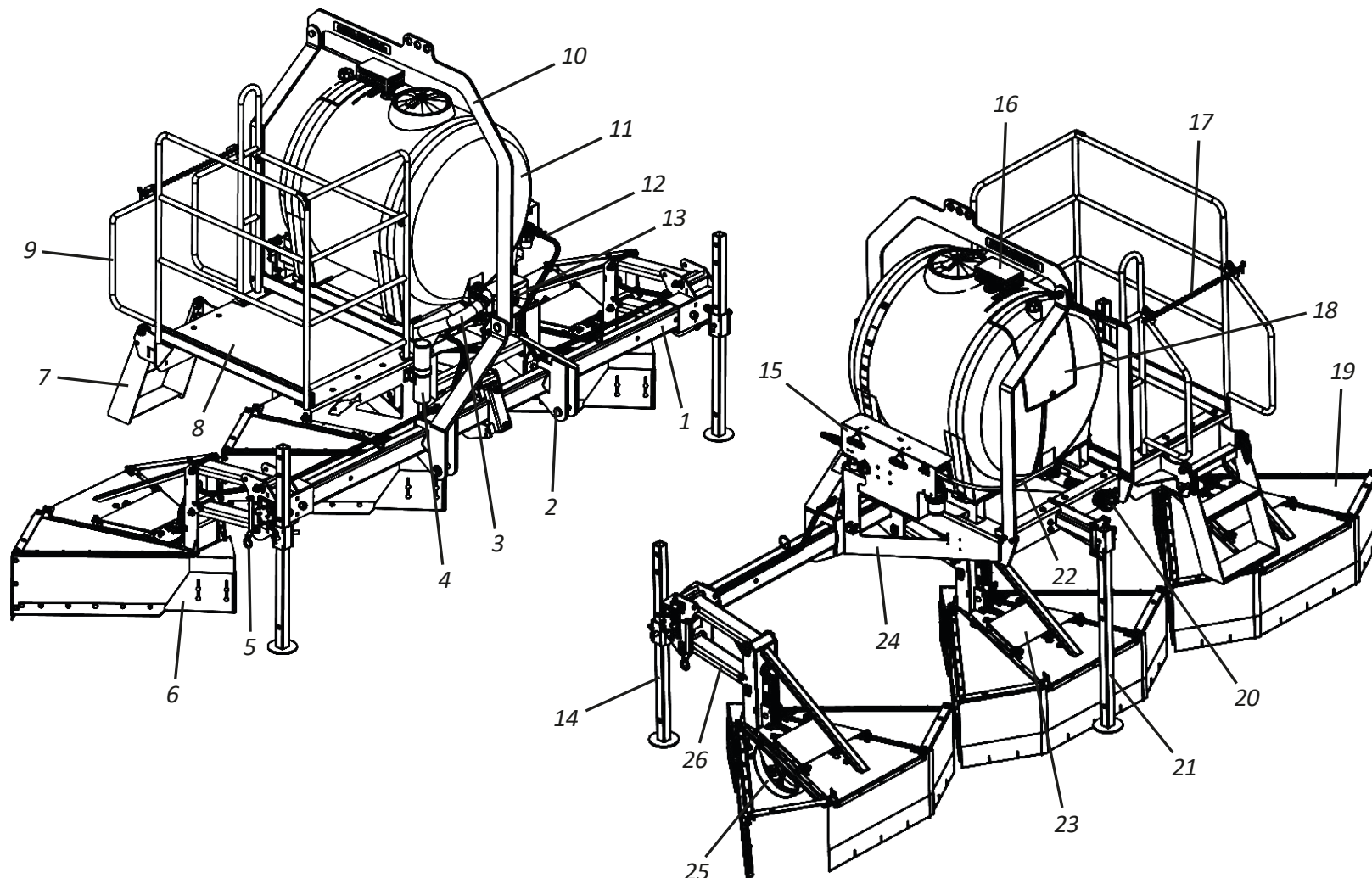
1. Frame
2. Category II hitching pin
3. Supply system hose
4. Manual container
5. Front trolley support
6. Stairs
7. Platform
8. Platform handrail
9. Lifting support
10. Main tank 600 liters
11. Pressure hose
12. Flow monitor
13. Front support bracket
14. Control panel
15. Agitator valve
16. Clean water tank 30 liters
17. Canvas
18. Buffer
19. Rear support bracket
20. Pressure return hose
21. Nozzle sensor protection
22. Tanl bracket
23. Height control wheel
24. Pantograph trolley



## ■ Components

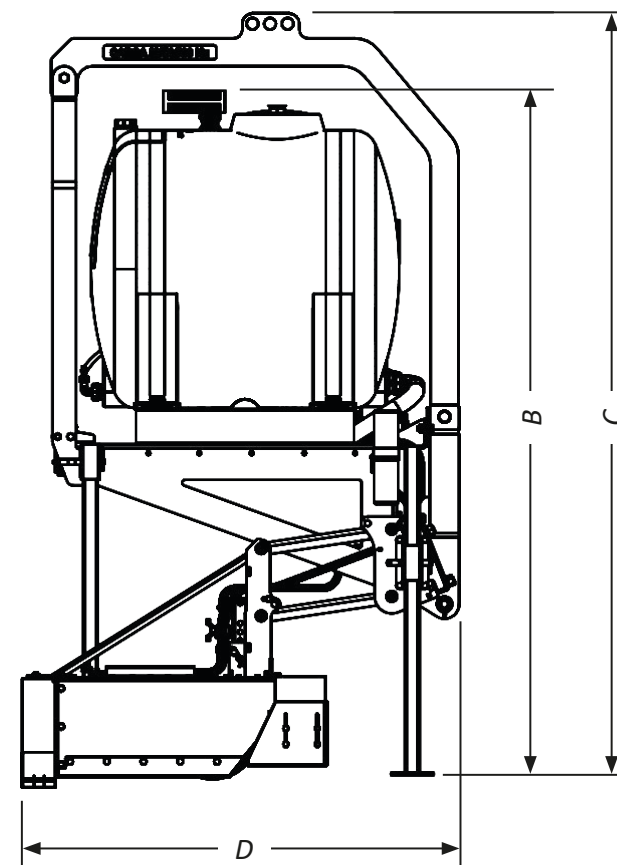
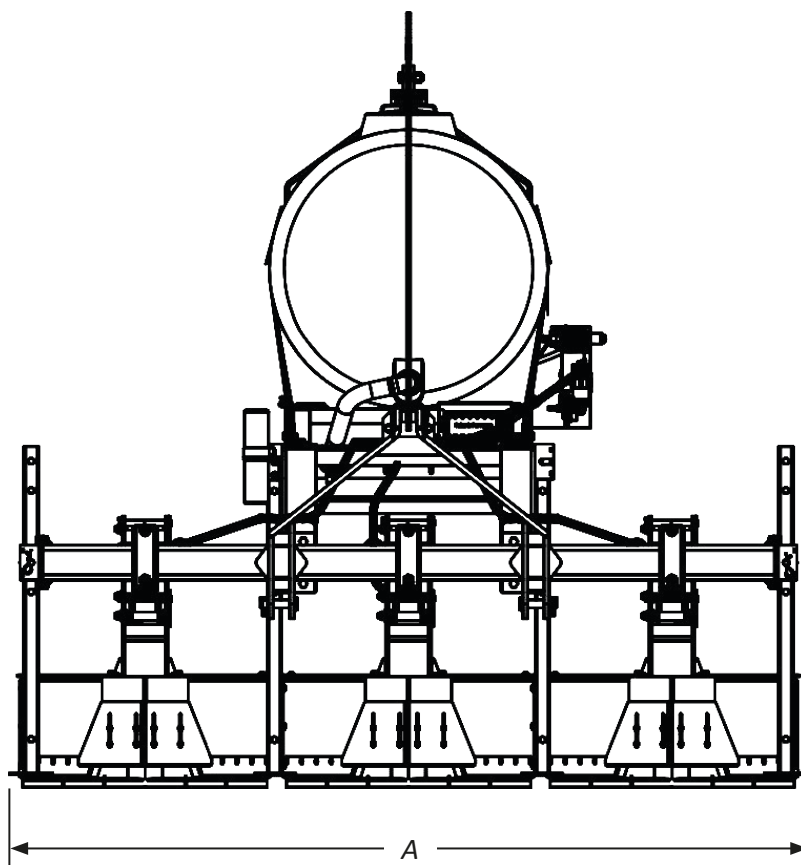
### • FC 600 - Fast Clean Symmetrical Planting (1.4 to 1.5 meters spacing) - With Platform

1. Frame
2. Category II hitching pin
3. Supply system hose
4. Manual container
5. Key
6. Front trolley support
7. Stairs
8. Platform
9. Platform handrail
10. Lifting support
11. Main tank 600 liters
12. Pressure hose
13. Flow monitor
14. Front support bracket
15. Control panel
16. Agitator valve
17. Safety chain
18. Clean water tank 30 liters
19. Canvas
20. Buffer
21. Rear support bracket
22. Pressure return hose
23. Nozzle sensor protection
24. Tank Bracket
25. Height control wheel
26. Pantograph trolley



## ■ Dimensions

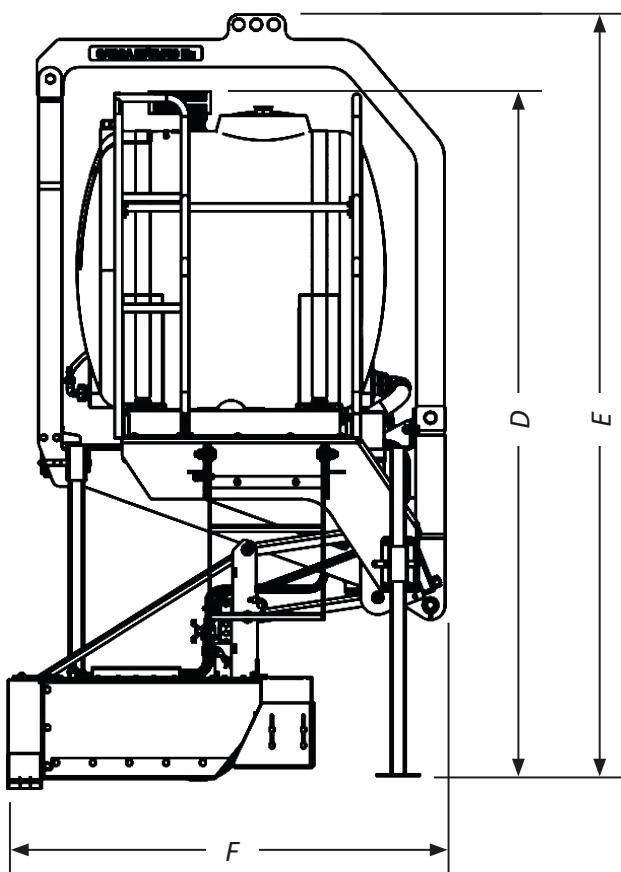
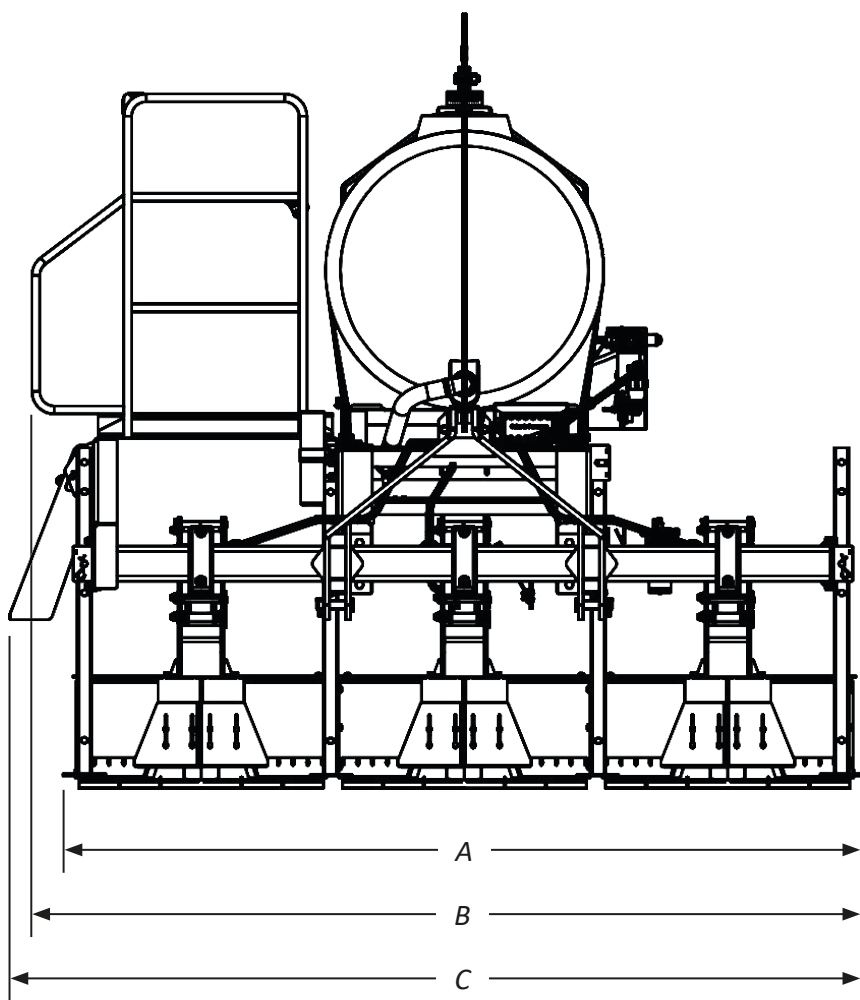
- FC 600 - Fast Clean Double Alternating Planting - Without Platform



| Model  | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) |
|--------|-----------|-----------|-----------|-----------|
| FC 600 | 2727      | 2340      | 2603      | 1485      |

▪ Dimensions

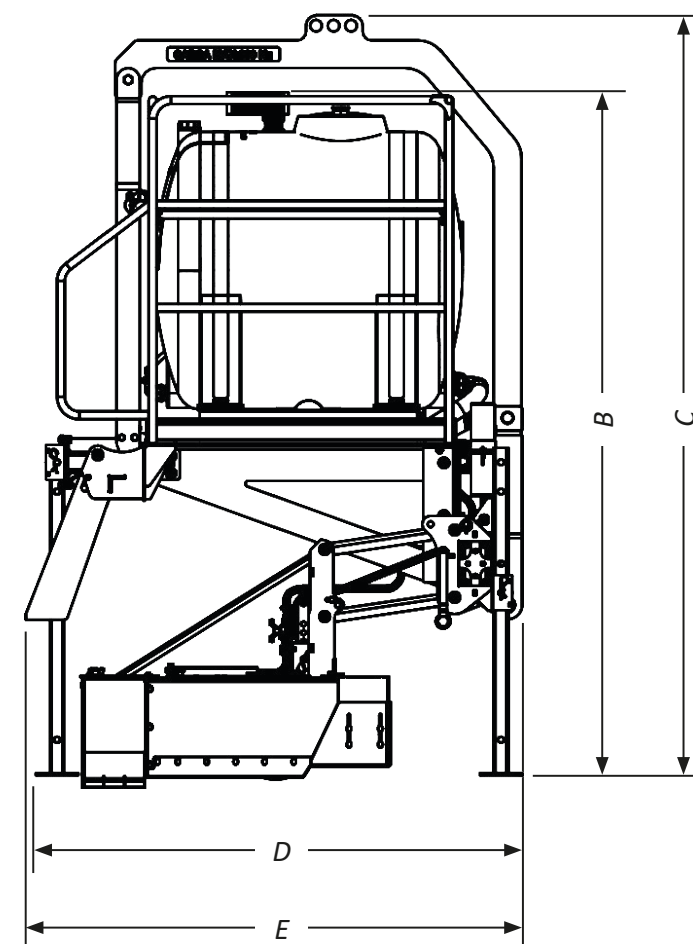
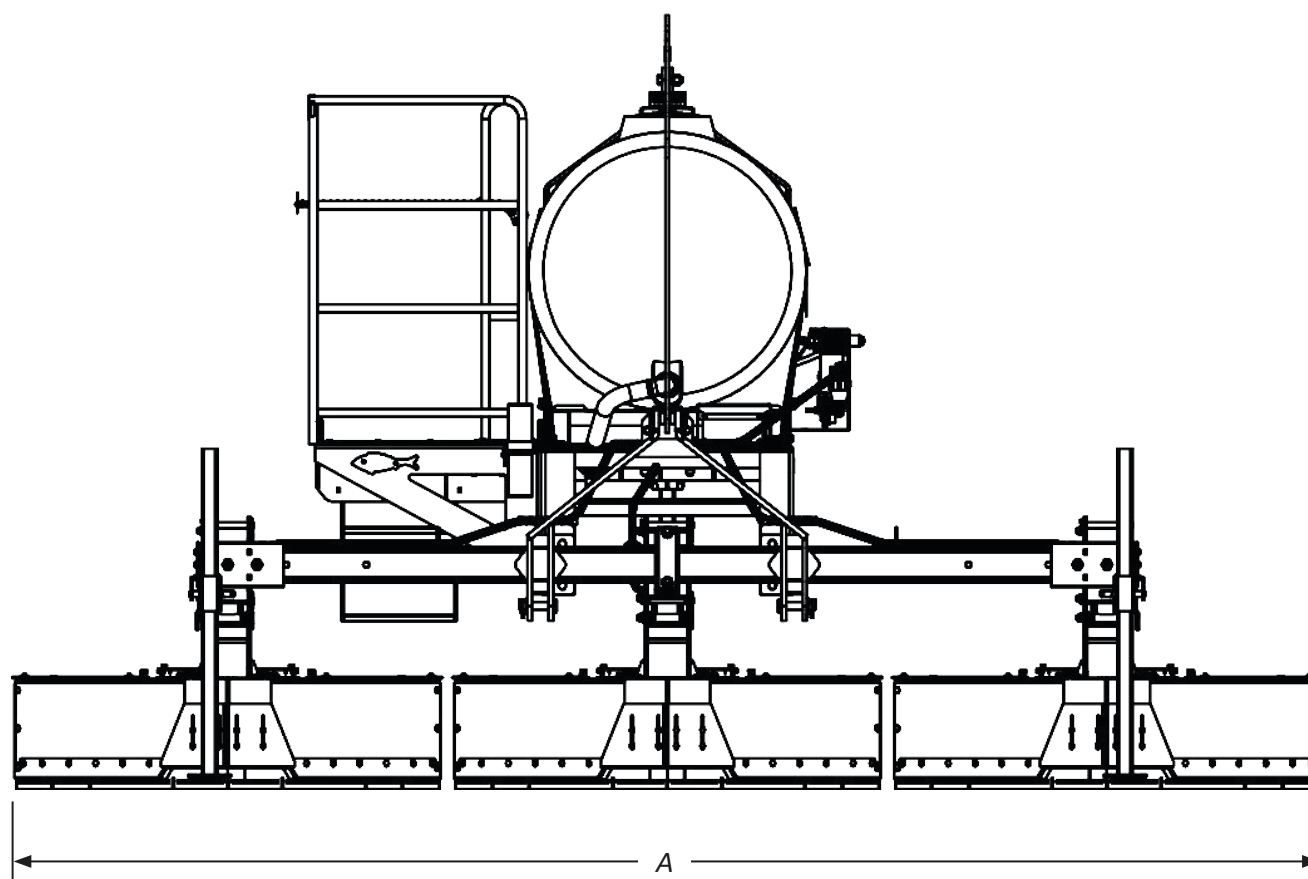
- FC 600 - Fast Clean Double Alternating Planting - With platform



| Model  | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) | F<br>(mm) |
|--------|-----------|-----------|-----------|-----------|-----------|-----------|
| FC 600 | 2727      | 2839      | 2914      | 2340      | 2603      | 1485      |

## ▪ Dimensions

- FC 600 - Fast Clean Symmetrical Planting (1.4 to 1.5 meters spacing) - With platform



| Model  | A<br>(mm) | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) |
|--------|-----------|-----------|-----------|-----------|-----------|
| FC 600 | 4500      | 2340      | 2603      | 1663      | 1698      |

## ■ Specifications

### • FC 600 - Fast Clean Double Alternating Planting

| Model  | No. of lines | No. of nozzles | Row spacing (m) | Hitch   | Main Tank Capacity (L) | Clean Water Tank Capacity (L) | Transport width (m) |               | Approximate weight (Kg) |           |               |           | Tractor Power (Cv) |
|--------|--------------|----------------|-----------------|---------|------------------------|-------------------------------|---------------------|---------------|-------------------------|-----------|---------------|-----------|--------------------|
|        |              |                |                 |         |                        |                               |                     |               | No Platform             |           | With Platform |           |                    |
|        |              |                |                 |         |                        |                               | No Platform         | With Platform | Empty Tank              | Tank Full | Empty Tank    | Tank Full |                    |
| FC 600 | 3            | 3              | 0,80 / 0,90     | Cat. II | 600                    | 30                            | 2,72                | 2,91          | 661                     | 1261      | 777           | 1377      | 110                |

### • FC 600 - Fast Clean Symmetrical Planting (1.4 to 1.5 meter spacing)

| Model  | No. of lines | No. of nozzles | Row spacing (m) | Hitch   | Main Tank Capacity (L) | Clean Water Tank Capacity (L) | Transport width (m) | Approximate weight (Kg) |           | Tractor Power (Cv) |
|--------|--------------|----------------|-----------------|---------|------------------------|-------------------------------|---------------------|-------------------------|-----------|--------------------|
|        |              |                |                 |         |                        |                               |                     | With Platform           |           |                    |
|        |              |                |                 |         |                        |                               | With Platform       | Empty Tank              | Tank Full |                    |
| FC 600 | 3            | 6 ou 9         | 1,4 / 1,5       | Cat. II | 600                    | 30                            | 3,20                | 900                     | 1500      | 110                |

*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. The technical specifications are approximate and are given under normal working conditions.*

## INTENDED USE OF THE FC 600

The **FC 600** was developed for herbicide application.

The **FC 600** should only be driven and operated by a trained operator.

## UNAUTHORIZED USE OF THE FC 600

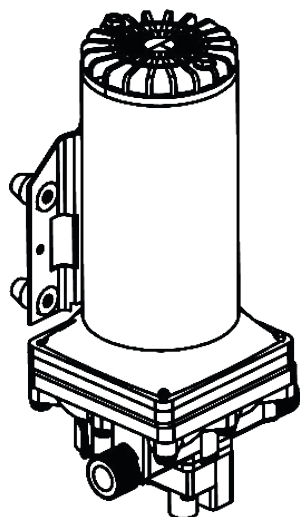
To avoid damage, serious accidents or death, DO NOT transport people on any part of the **FC 600**.

The **FC 600** must NOT be used by an inexperienced operator who does not know all the driving, control and operating techniques.



## ■ Specifications

### • Electric pump - Part I



**MODEL NUMBER:** 5059-1311-D011

**PUMP TYPE:** Positive Displacement - 4 Diaphragm Chambers

**SAFETY VALVE:** (1 - Way) Prevents Reverse Flow

**CAME:** 2.0 Degrees

**ENGINE:** Permanent Magnet, 71-Series 10-16.5-L

**VOLTAGE:** 12 VCC Nominal

**PRESSOSTATE:** Adjustable switch-off (Range 40-60 PSI)  
Factory setting: 60 PSI, Alloy 45 PSI  $\pm$  5 PSI

**TEMPERATURE OF THE LIQUID:** 49°C Max.

**SUCTION:** Self-escorting up to 2.4m vertically,  
Max. Inlet Pressure 30 PSI (2.1 Bar)

**OUTPUTS:** ½" NPS male

**BUILDING MATERIALS:**

**PLASTICS:** Polypropylene

**VALVES:** Viton

**DIAPHRAGM:** Santoprene

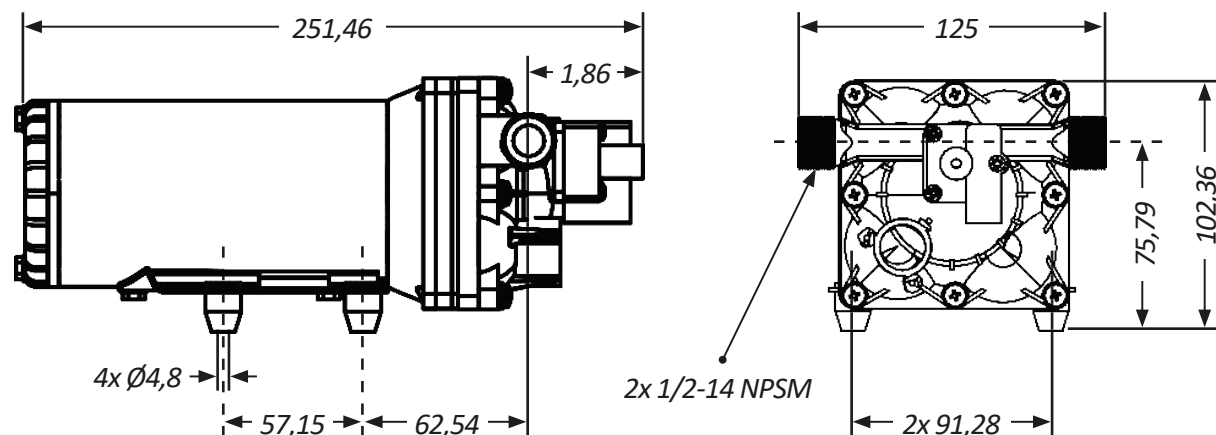
**BASE:** Zinc-plated steel

**NET WEIGHT:** 2,7 Kg

**SERVICE CYCLE:** Intermittent (See Temperature Curve)

**TYPICAL APPLICATIONS:** Agricultural spraying

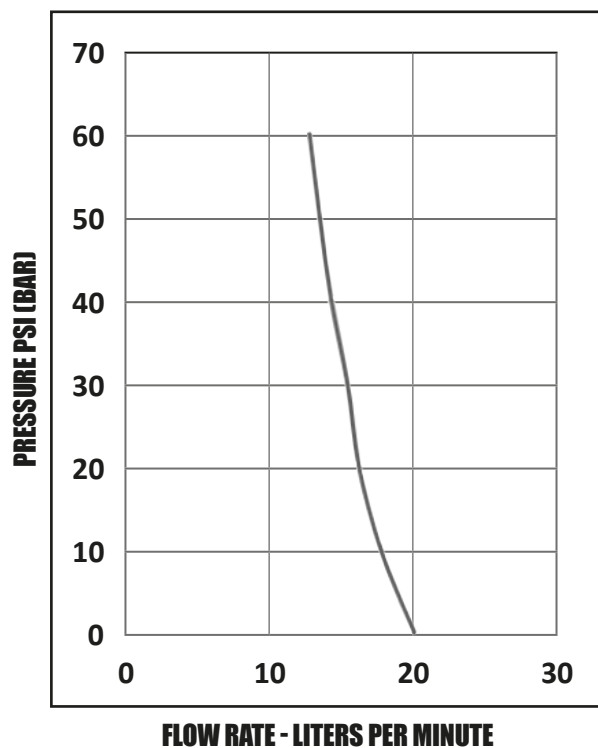
### DIMENSIONS:



## ■ Specifications

### • Electric pump - Part II

#### TYPICAL PERFORMANCE:



*Specifications subject to change  
without prior notice.*

| Pressure (PSI) | Flow (LPM) | Current (AMPS) | Voltage (VOLTS) |
|----------------|------------|----------------|-----------------|
| 0              | 20.1       | 6.5            | 12              |
| 10             | 17.8       | 9.0            | 12              |
| 20             | 16.3       | 11.8           | 12              |
| 30             | 15.5       | 12.4           | 12              |
| 40             | 14.4       | 14.0           | 12              |
| 50             | 13.6       | 15.4           | 12              |
| 60             | 12.9       | 17.0           | 12              |

#### ELECTRIC PUMP

- You can Work dry;
- Co-molded diaphragm;
- 4 diaphragm chambers;
- Resistant to corrosive and abrasive chemicals;
- Flow rate of 20,1 L/m
- Regulated pressure switch 50PSI
- Voltage 12 VDC
- 17 Amps

#### APPLICATION RECOMMENDATIONS:

- Working pressure: 15 a 25 PSI
- Application rate (L/HC)

**NOTE:** On occasions when the density of the product increases (we recommend up to 1.2), it is necessary to increase the volume of water, consequently replace the filter mesh and replace the nozzle for a higher flow rate.

- Filters:

Mesh #100 #80 #50

- Nozzles:

**XP AIR** 0,15, 02, 03, 04.

**XP** 0,15, 02, 03, 04.

#### RECOMMENDATIONS FOR BETTER PUMP LIFE:

- It is recommend to clean the filters by activating the clean water system at the end of the working day, according to the instructions on pages 62 and 63.
- On average, the service life of a brush motor is 3,000 hours.

## ■ Assembly

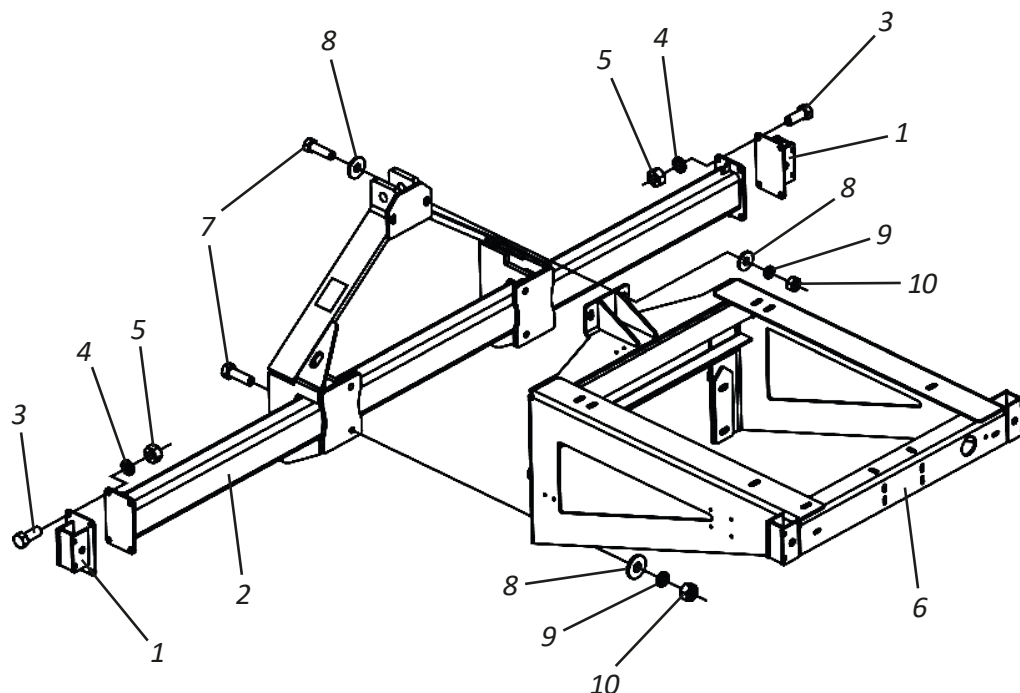
The **FC 600** leaves the factory assembled. For the purposes of parts replacement, follow the assembly instructions.

**!** The **FC 600** must be assembled by the retailer, using people who are trained and qualified for the job.

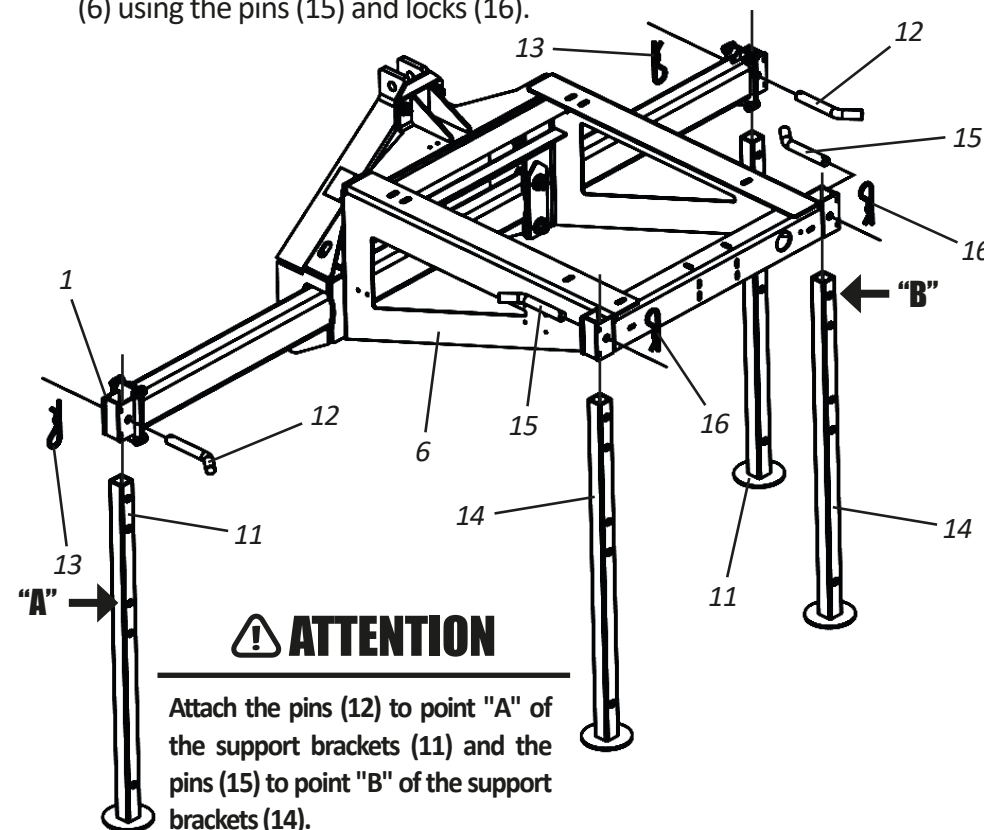
### • Assembly of the frame, tank bracket and support brackets - FC 600 Double Alternating Planting - Without Platform

To assemble the frame, proceed as follows:

- 01 -** Attach the front brackets (1) to the frame (2) using the screws (3), spring washers (4) and nuts (5) washers (4) and nuts (5).
- 02 -** Then attach the tank bracket (6) to the frame (2) using the screws (7) flat washers (8), spring washers (9) and nuts (10).



- 03 -** Then attach the support brackets (11) to the front brackets (1) using the pins (12) and locks (13) and the support brackets (14) to the tank bracket (6) using the pins (15) and locks (16).

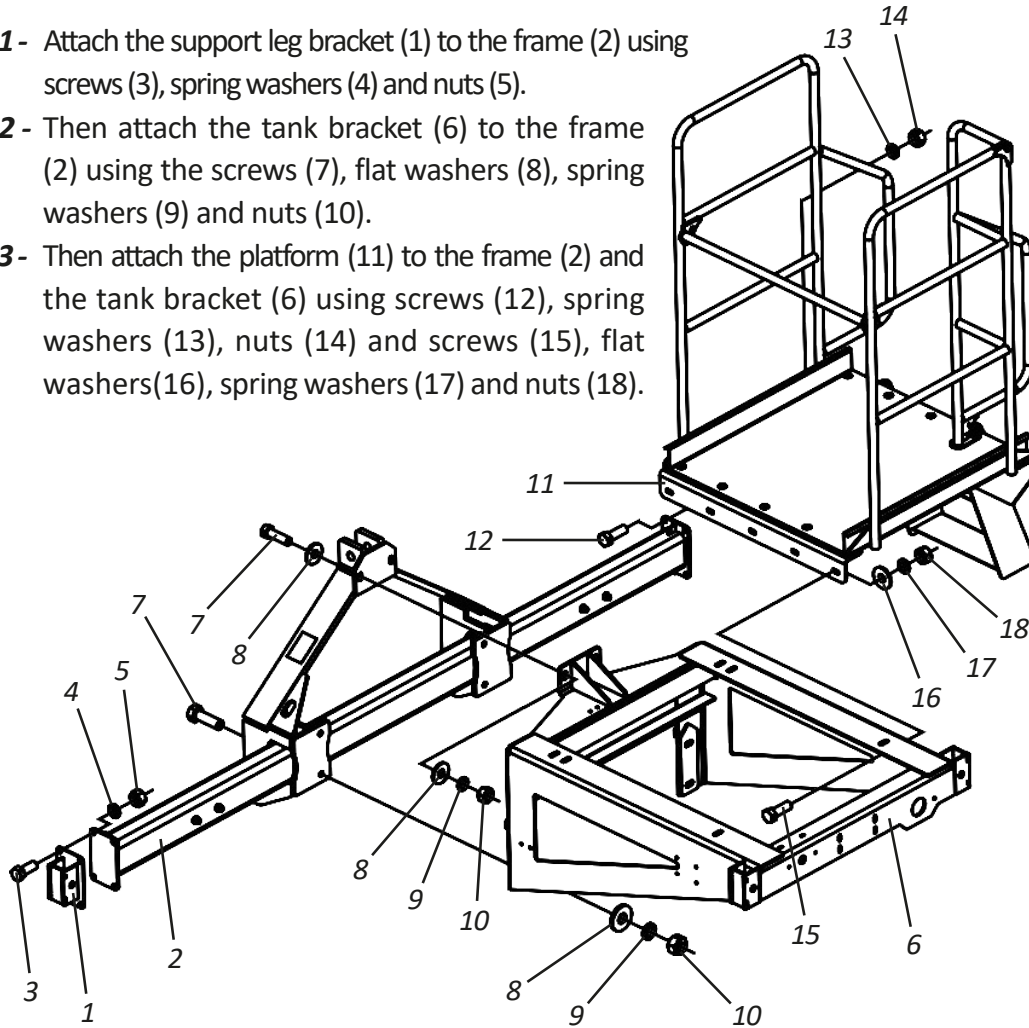


## ■ Assembly

### • Assembling the frame, tank bracket, platform and support brackets - FC 600 Double Alternating Planter - With Platform

To assemble the frame, proceed as follows:

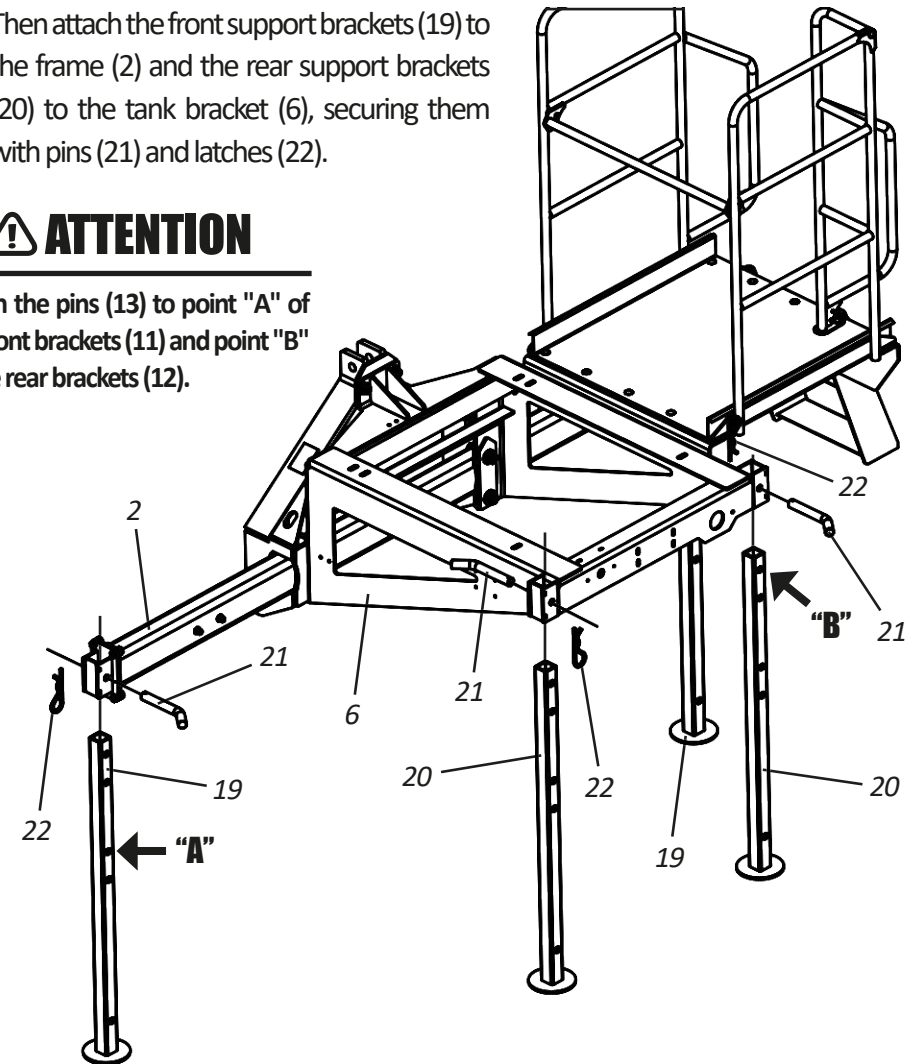
- 01 -** Attach the support leg bracket (1) to the frame (2) using screws (3), spring washers (4) and nuts (5).
- 02 -** Then attach the tank bracket (6) to the frame (2) using the screws (7), flat washers (8), spring washers (9) and nuts (10).
- 03 -** Then attach the platform (11) to the frame (2) and the tank bracket (6) using screws (12), spring washers (13), nuts (14) and screws (15), flat washers (16), spring washers (17) and nuts (18).



- 04 -** Then attach the front support brackets (19) to the frame (2) and the rear support brackets (20) to the tank bracket (6), securing them with pins (21) and latches (22).

### **! ATTENTION**

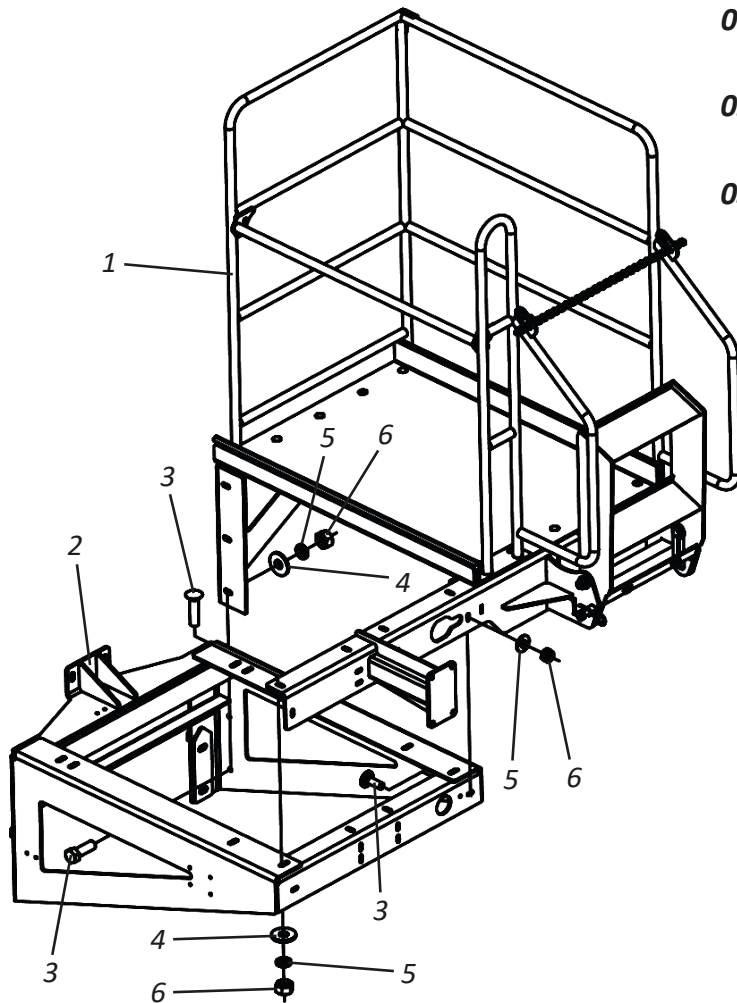
Attach the pins (13) to point "A" of the front brackets (11) and point "B" of the rear brackets (12).



## ■ Assembly

### • Assembling the frame, tank bracket and platform - FC 600 Symmetrical Planting (1.4 to 1.5 meter spacing)

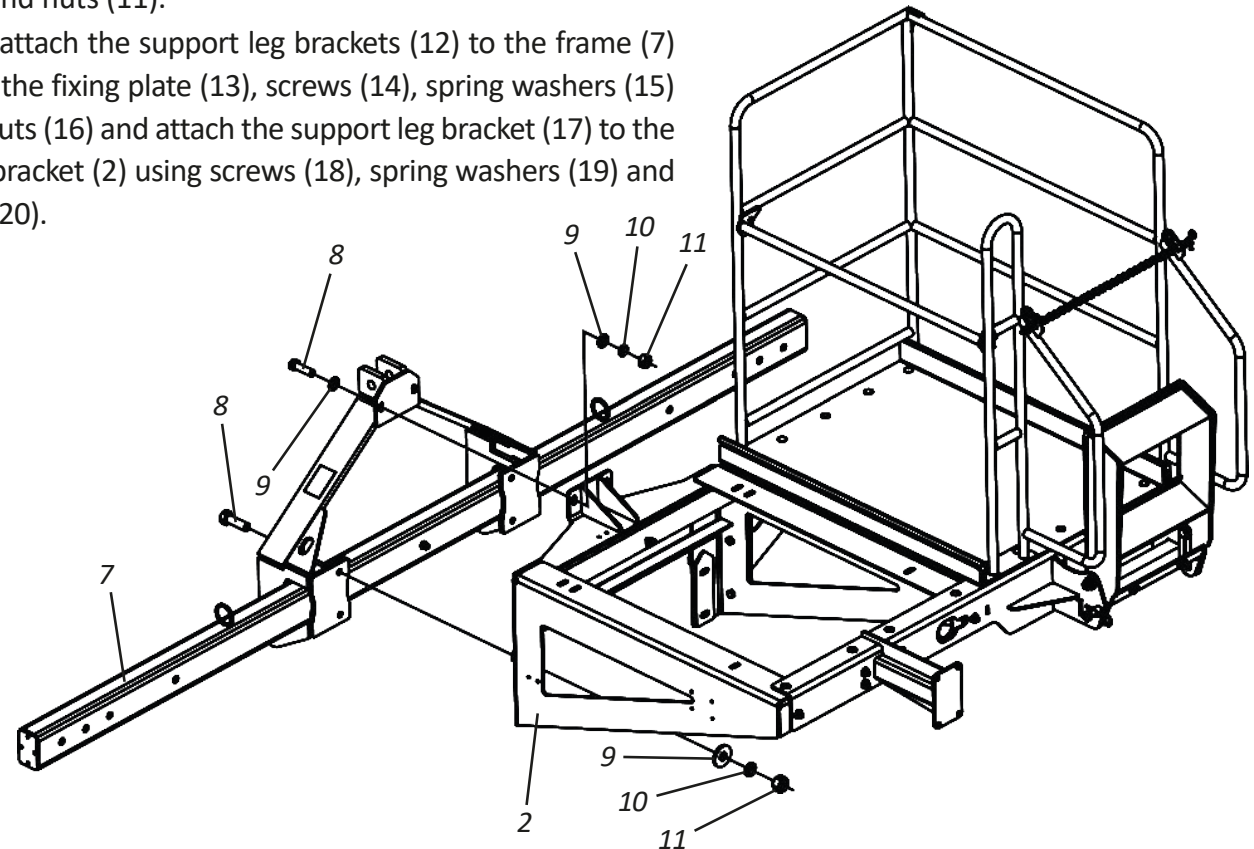
To assemble the tank bracket, platform and frame, proceed as follows:



**01** - Attach the platform (1) to the tank bracket (2) using the screws (3), flat washers (4), spring washers (5) and nuts (6) spring washers (5) and nuts (6).

**02** - Then attach the frame (7) to the tank bracket (2) using the screws (8), flat washers (9), spring washers (10) and nuts (11).

**03** - Then attach the support leg brackets (12) to the frame (7) using the fixing plate (13), screws (14), spring washers (15) and nuts (16) and attach the support leg bracket (17) to the tank bracket (2) using screws (18), spring washers (19) and nuts (20).



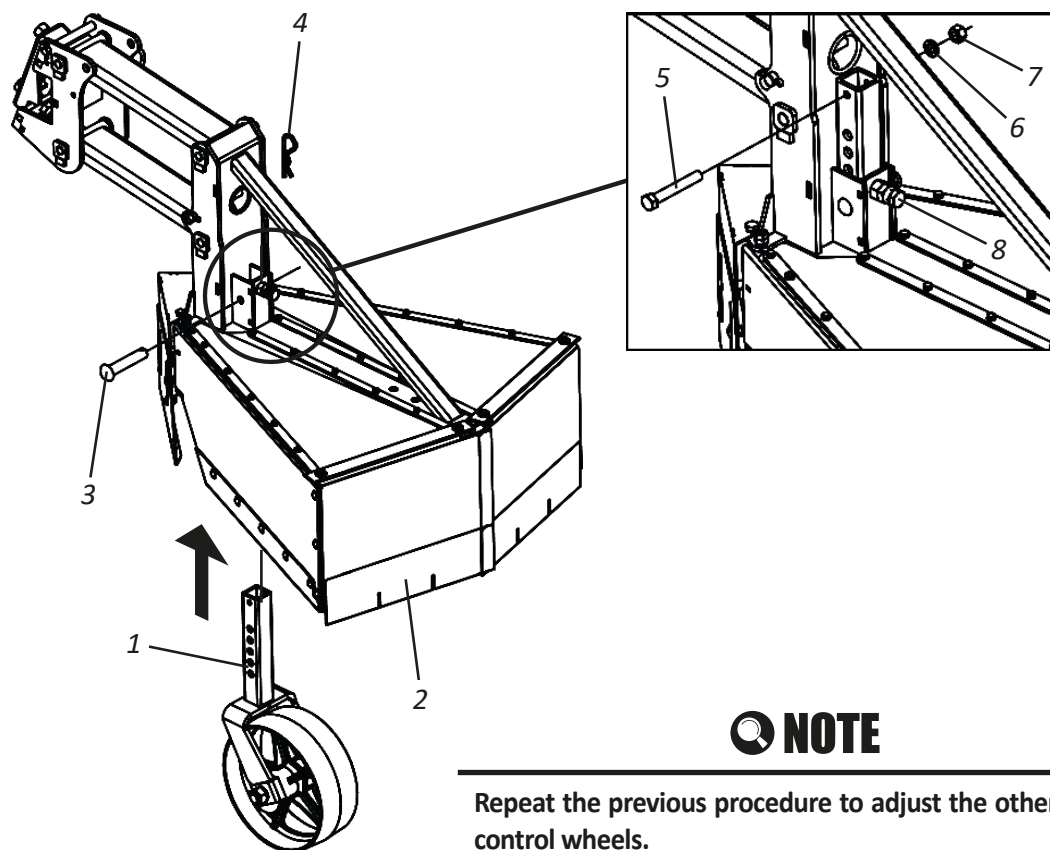


## ■ Assembly

### • Assembling the height control wheel

To assemble the height control wheel on the trolley, proceed as follows:

- 01** - Attach the height control wheel (1) to the trolley (2) via the pin (3) and lock (4).
- 02** - Then insert the screw (5), spring washer (6) and nut (7).
- 03** - Then lock the height control wheel (1) by tightening the screw (8).



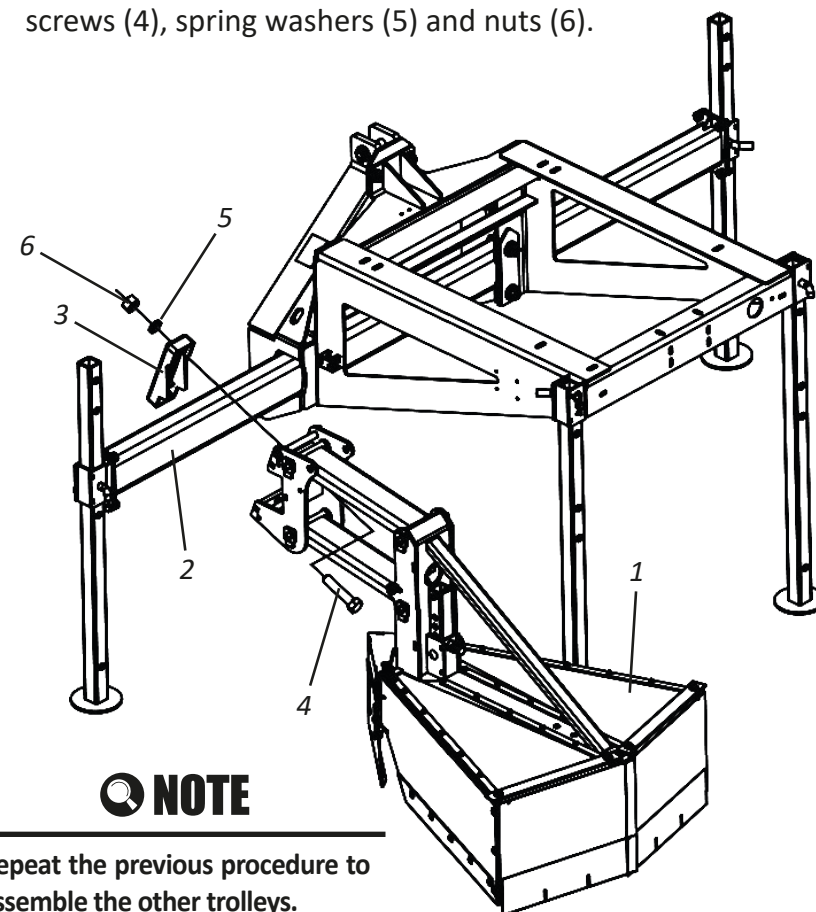
#### NOTE

Repeat the previous procedure to adjust the other height control wheels.

### • Assembly of FC 600 pantograph trolleys double alternating planting

To assemble the pantograph trolley, proceed as follows:

- 01** - Attach the trolley (1) to the frame (2) using the clamp (3), screws (4), spring washers (5) and nuts (6).



#### NOTE

Repeat the previous procedure to assemble the other trolleys.

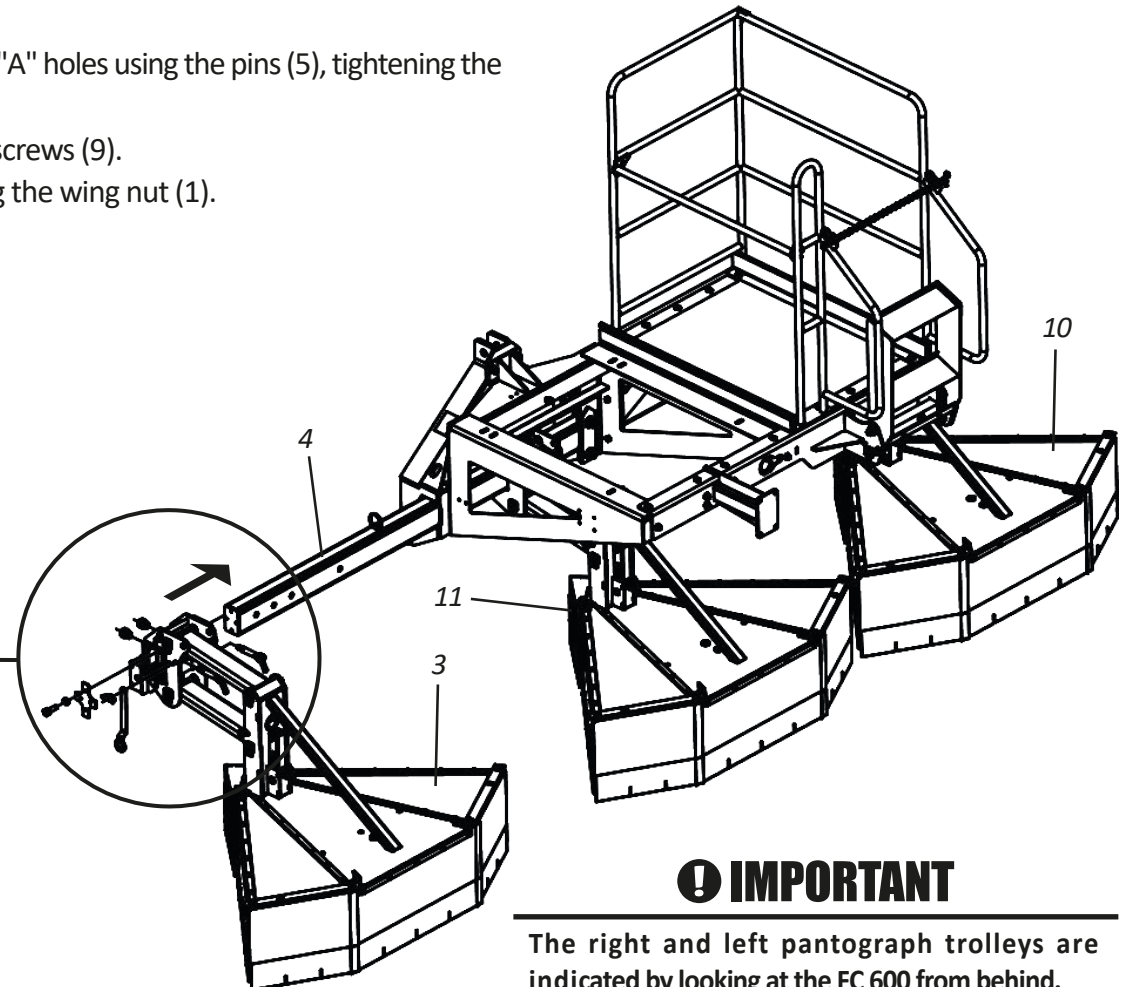
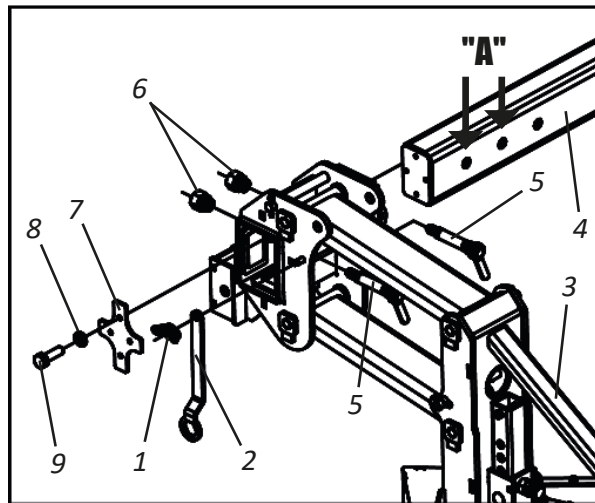


## ■ Assembly

### • Assembly of pantograph trolleys - FC 600 Symmetrical Planting (1.4 to 1.5 meter spacing)

To assemble the pantograph trolleys, proceed as follows:

- 01** - Loosen the wing nut (1) and remove the key (2).
- 02** - Next, attach the left pantograph trolley (3) to the frame (4) by fixing it in the "A" holes using the pins (5), tightening the nuts (6) with the wrench (2).
- 03** - Then attach the lock (7) to the frame (4) using the spring washers (8) and screws (9).
- 04** - Finish by reattaching the wrench (2) to the left pantograph trolley (3) using the wing nut (1).



**NOTE** Repeat the previous procedure to assemble the right pantograph trolley (10).

**ATTENTION** To assemble the central pantograph trolley (11), follow the instructions on the previous page.

### ! IMPORTANT

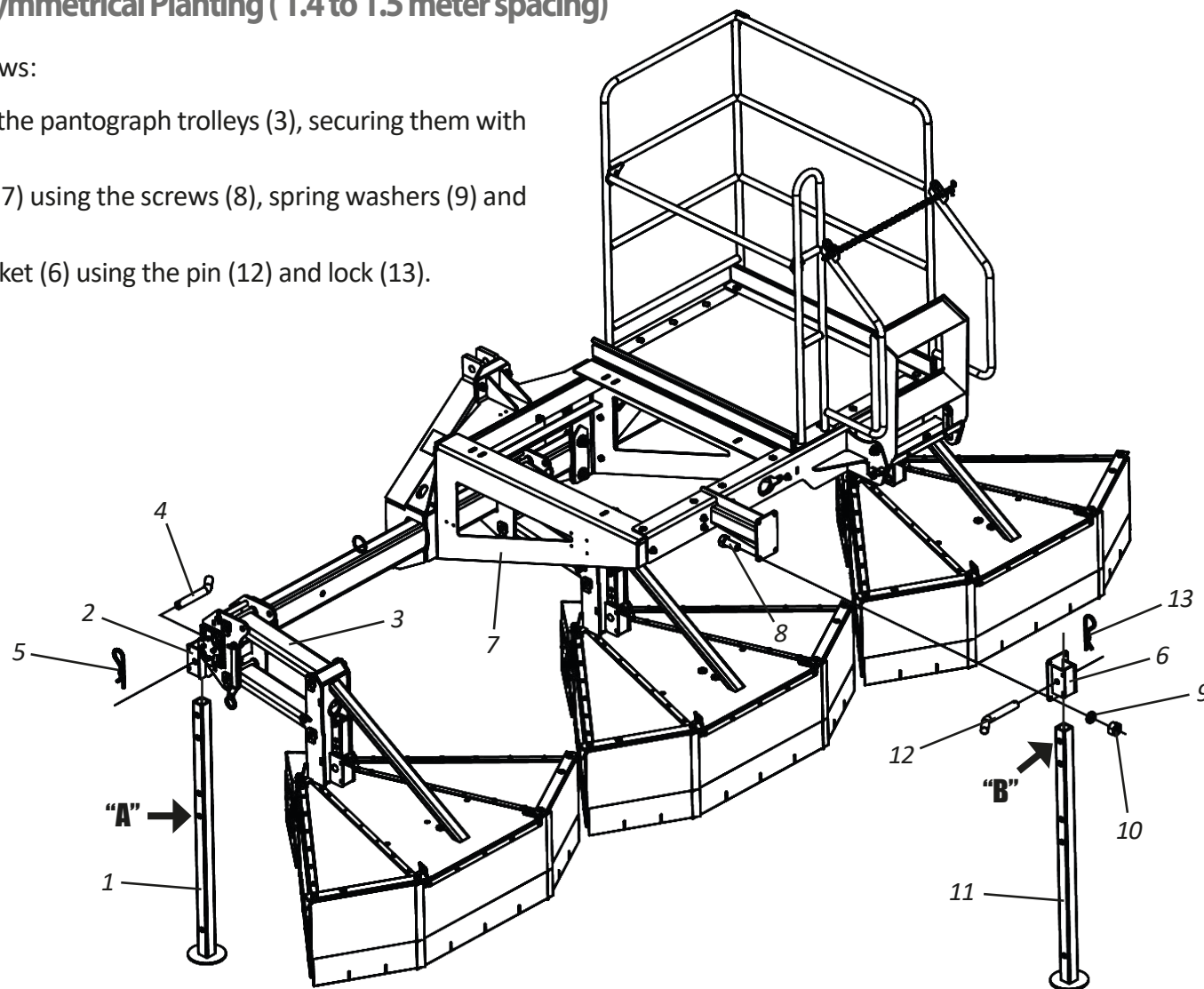
The right and left pantograph trolleys are indicated by looking at the FC 600 from behind.

## ■ Assembly

### • Assembling the support brackets - FC 600 Symmetrical Planting ( 1.4 to 1.5 meter spacing)

To assemble the support brackets, proceed as follows:

- 01** - Attach the support brackets (1) to the brackets (2) of the pantograph trolleys (3), securing them with the pins (4) and locks (5).
- 02** - Then attach the rear bracket (6) to the tank bracket (7) using the screws (8), spring washers (9) and nuts (10) washers (9) and nuts (10).
- 03** - Then attach the support bracket (11) to the rear bracket (6) using the pin (12) and lock (13).



## NOTE

Attach the pins (4) to point "A" of the support brackets (1) and the pin (12) to point "B" of the support bracket (11).

## ■ Assembly

### • Assembling the valve, tank and refueling kit

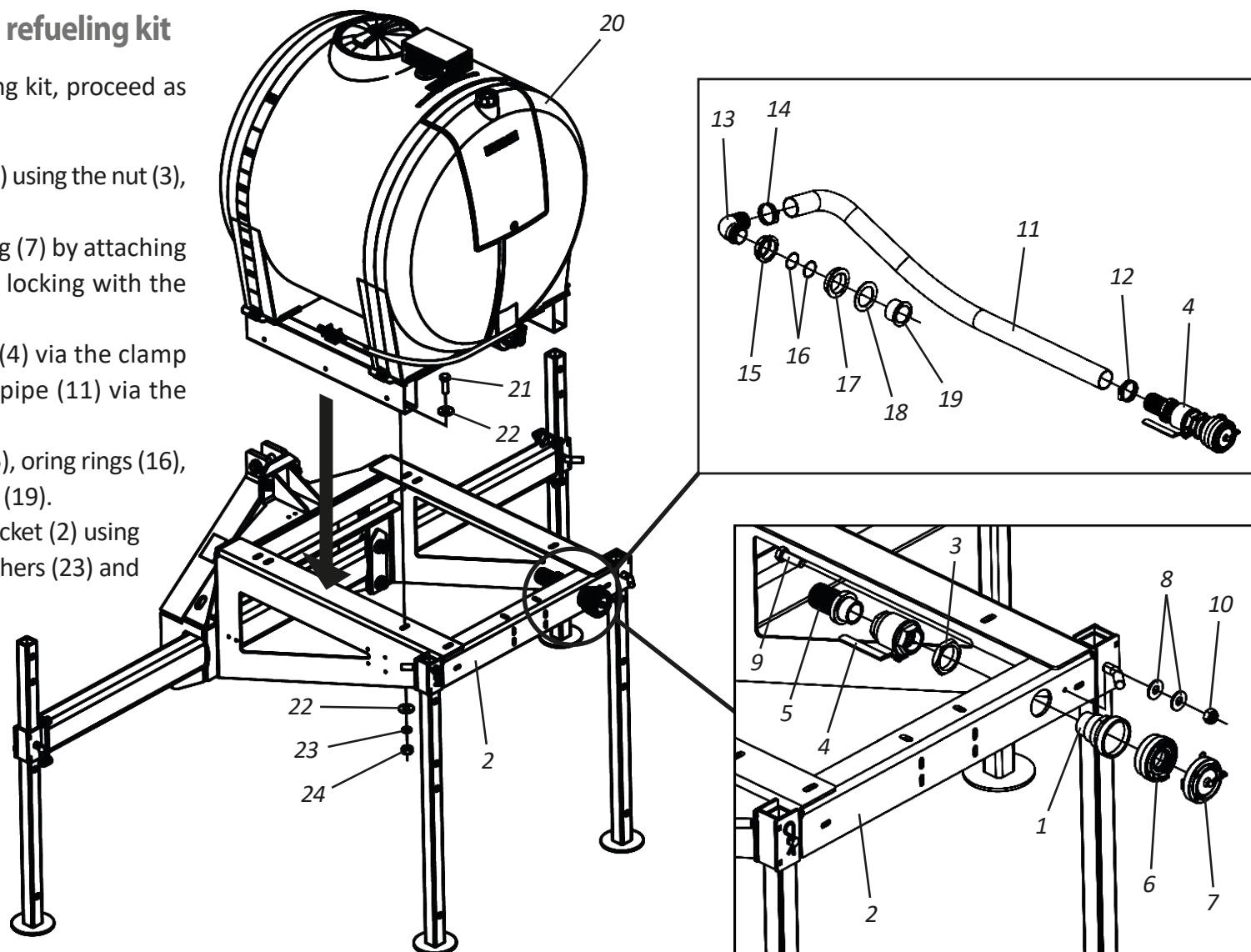
To assemble the valve, tank and refueling kit, proceed as follows:

- 01** - Attach the nipple (1) to the tank bracket (2) using the nut (3), attach the valve (4) and the nipple (5).
- 02** - Then attach the adapter (6) and the plug (7) by attaching its chain between the flat washers (8), locking with the screw (9) and nut (10).
- 03** - Then attach the pipe (11) to the valve (4) via the clamp (12) and attach the elbow (13) to the pipe (11) via the clamp (14).
- 04** - Then attach to the elbow (13) the nut (15), oring rings (16), lock nut (17), gasket (18) and connection (19).
- 05** - Then attach the tank (20) to the tank bracket (2) using screws (21), flat washers (22), spring washers (23) and nuts (24).

### ❗ IMPORTANT

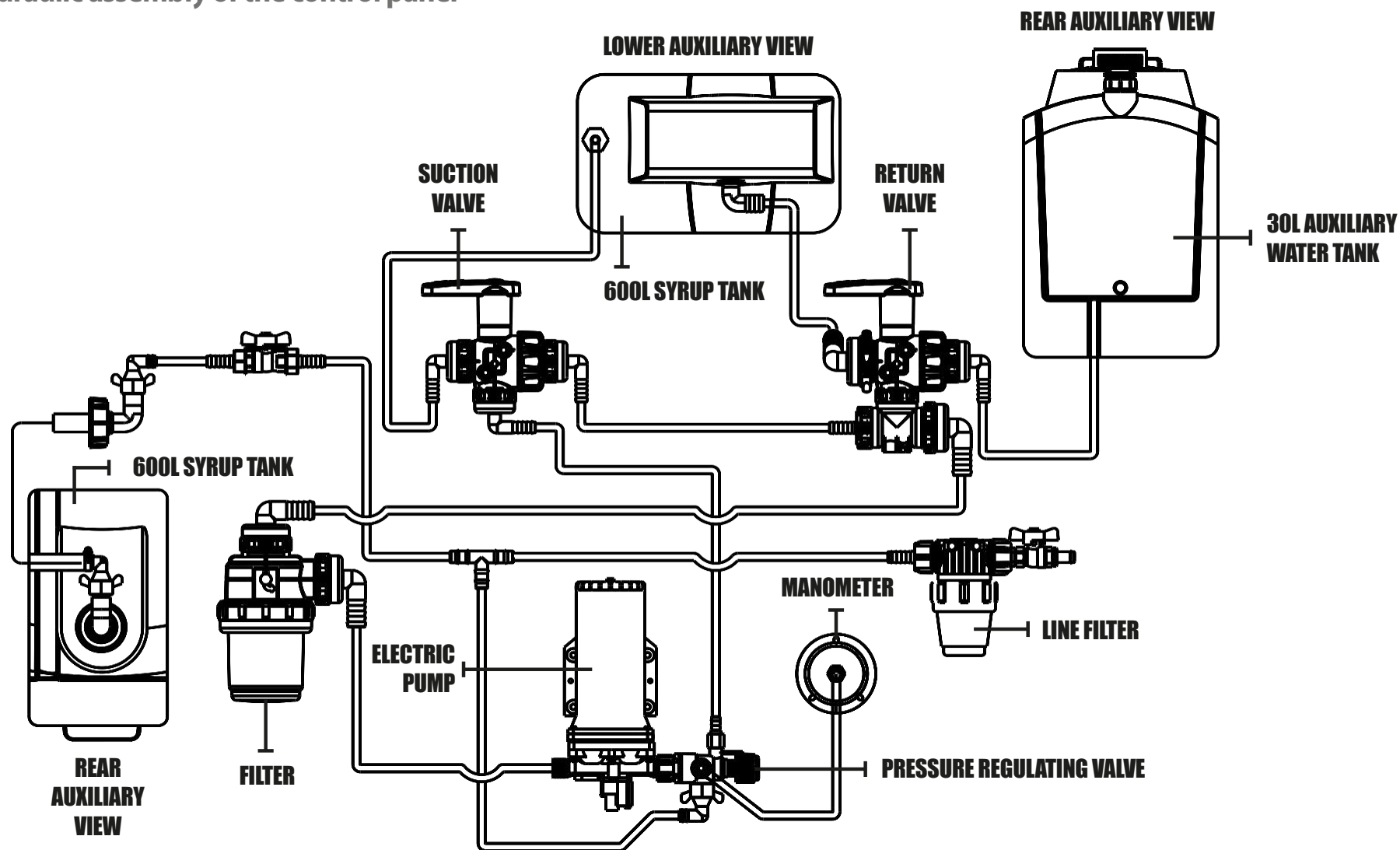


The FC 600 package box comes with a swivel adapter to attach to the truck's supply hose in case it doesn't have an adapter.



## ▪ Assembly

- Hydraulic assembly of the control panel

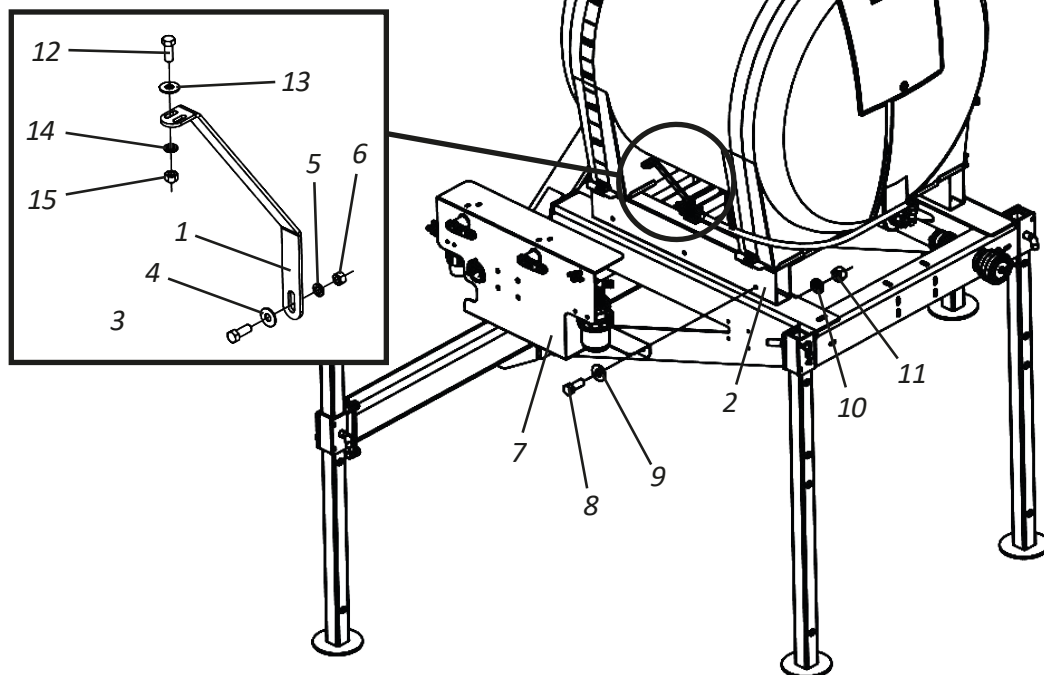


## ▪ Assembly

### • Assembling the control panel

To assemble the control panel, proceed as follows:

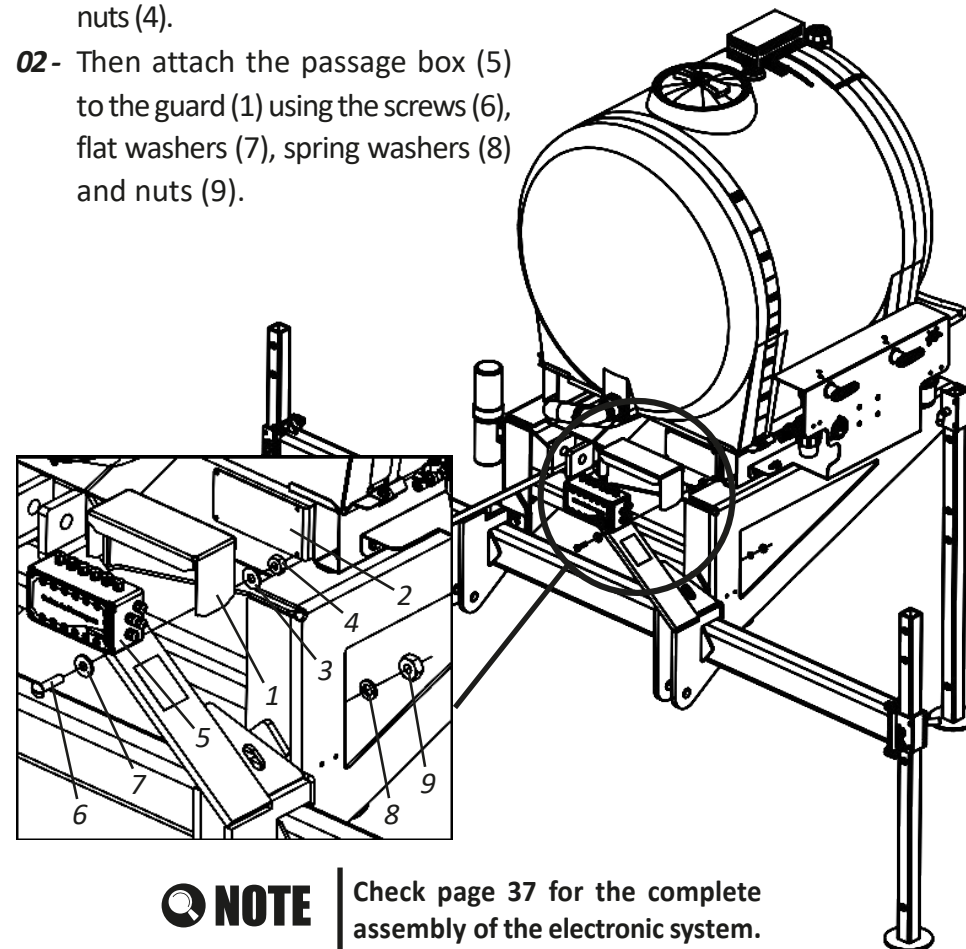
- 01** - Attach the plate (1) to the bracket (2) using the screws (3), flat washers (4), spring washers (5) and nuts (6).
- 02** - Then attach the control panel (7) to the bracket (2) using the screws (8), flat washers (9), spring washers (10), nuts (11) and attach the plate (1) to the control panel (2) using the screws (12), flat washers (13), spring washers (14) and nuts (15).



### • Assembling the junction box

To assemble the junction box, proceed as follows:

- 01** - Place the guard (1) against the plate (2) with the flat washers (3) and nuts (4).
- 02** - Then attach the passage box (5) to the guard (1) using the screws (6), flat washers (7), spring washers (8) and nuts (9).

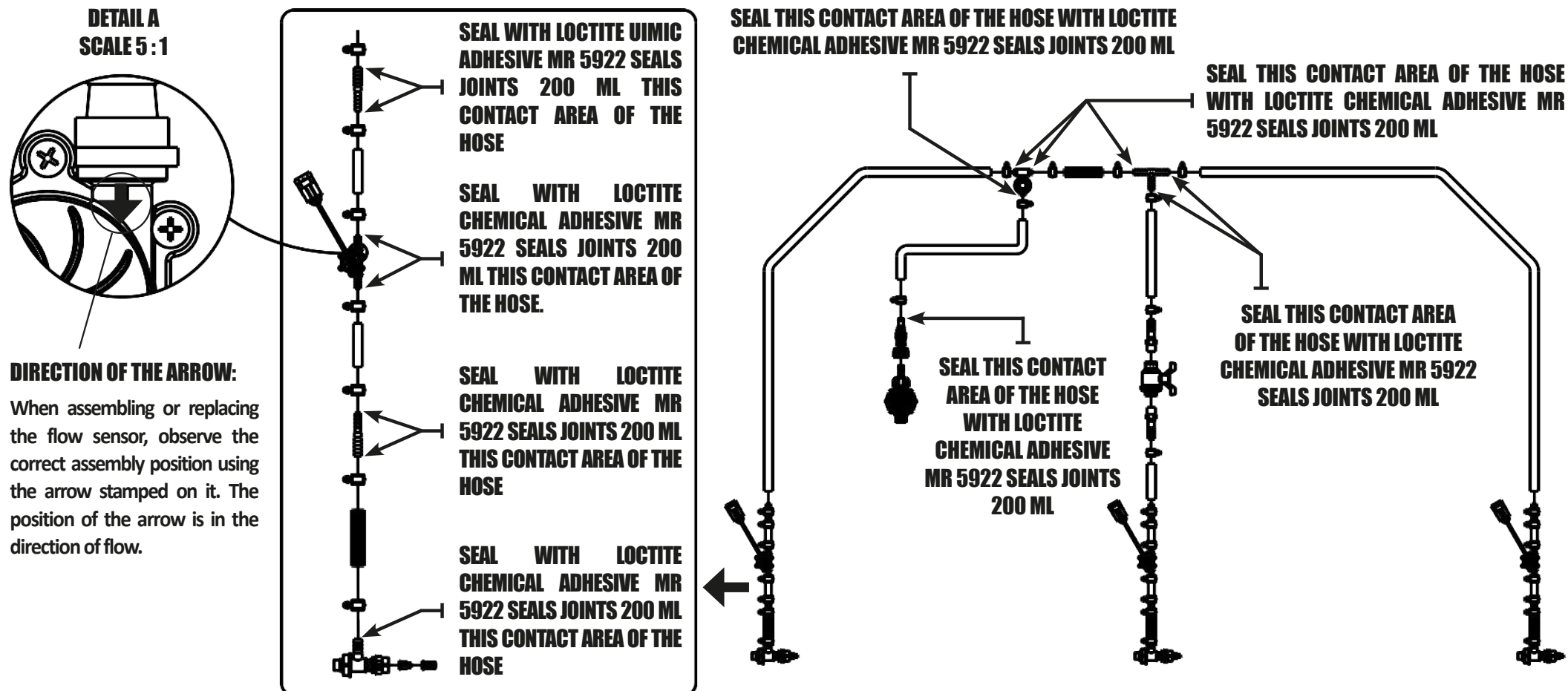


Check page 37 for the complete assembly of the electronic system.



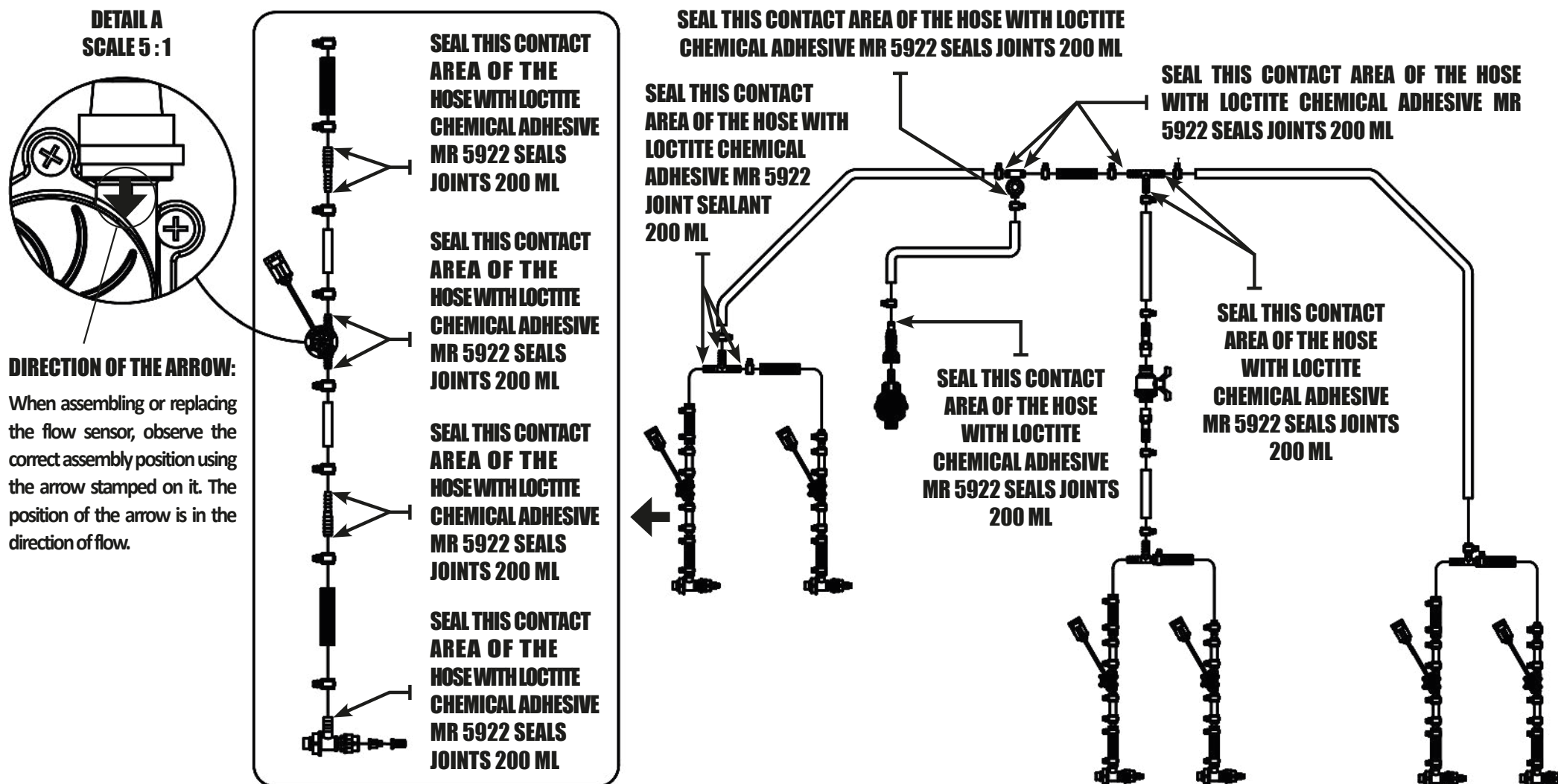
## ■ Assembly

### • Assembly of the 3-nozzle hydraulic system - FC 600 Double Alternate Planting



## ■ Assembly

- **Hydraulic system assembly 6 nozzles - FC 600 Symmetrical planting (1.4 to 1.5 meter spacing)**

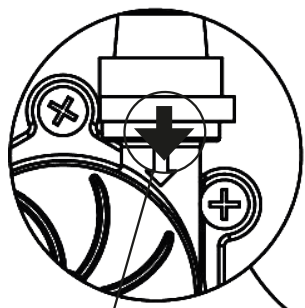




## ■ Assembly

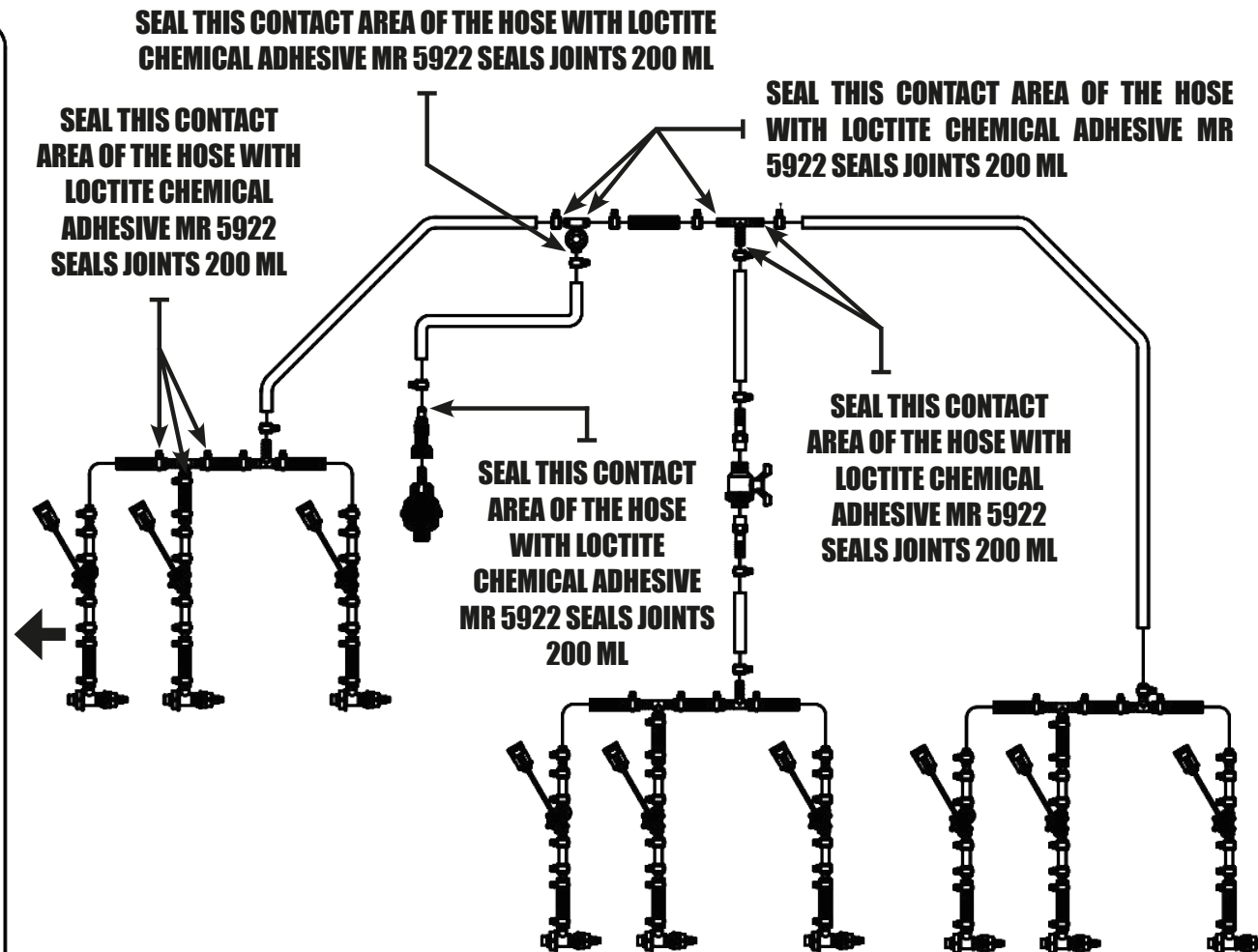
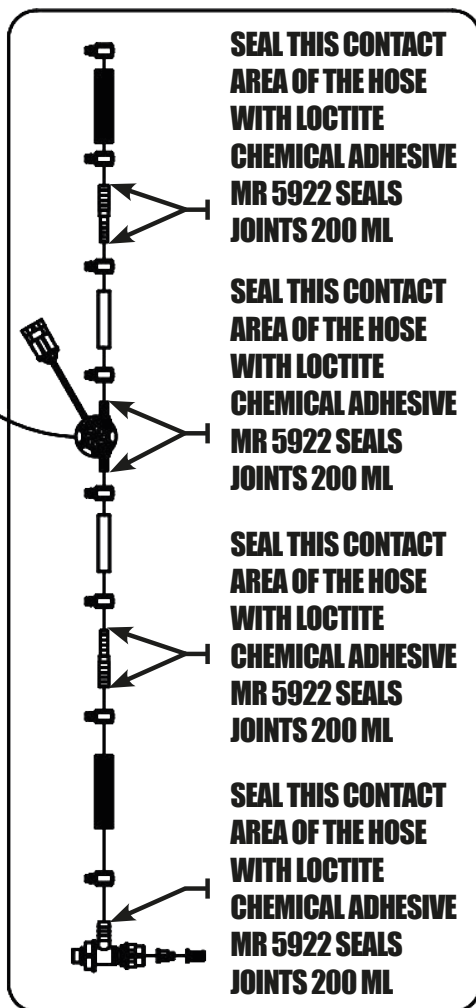
- Hydraulic system assembly 9 nozzles - FC 600 Symmetrical planting ( 1.4 to 1.5 meter spacing)

**DETAIL A**  
**SCALE 5:1**



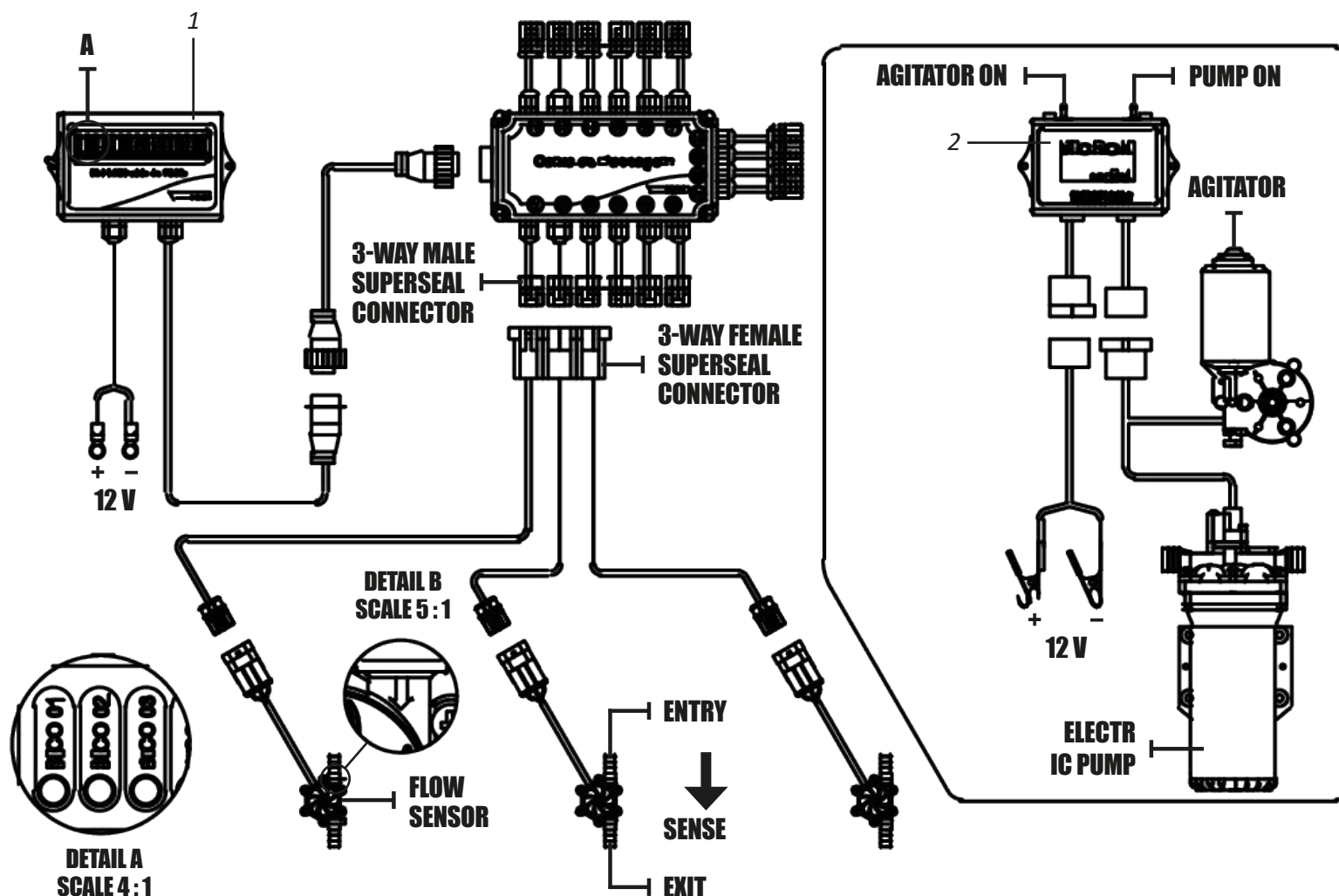
**DIRECTION OF THE ARROW:**

When assembling or replacing the flow sensor, observe the correct assembly position using the arrow stamped on it.



## ■ Assembly

- Assembling the electronic system



THESE ARE SOME OF THE MANY ITEMS THAT MAKE UP THE CODE: 60200590760

## ! IMPORTANT

The number of sensors will depend on the number of nozzles per line.

## ! NOTE

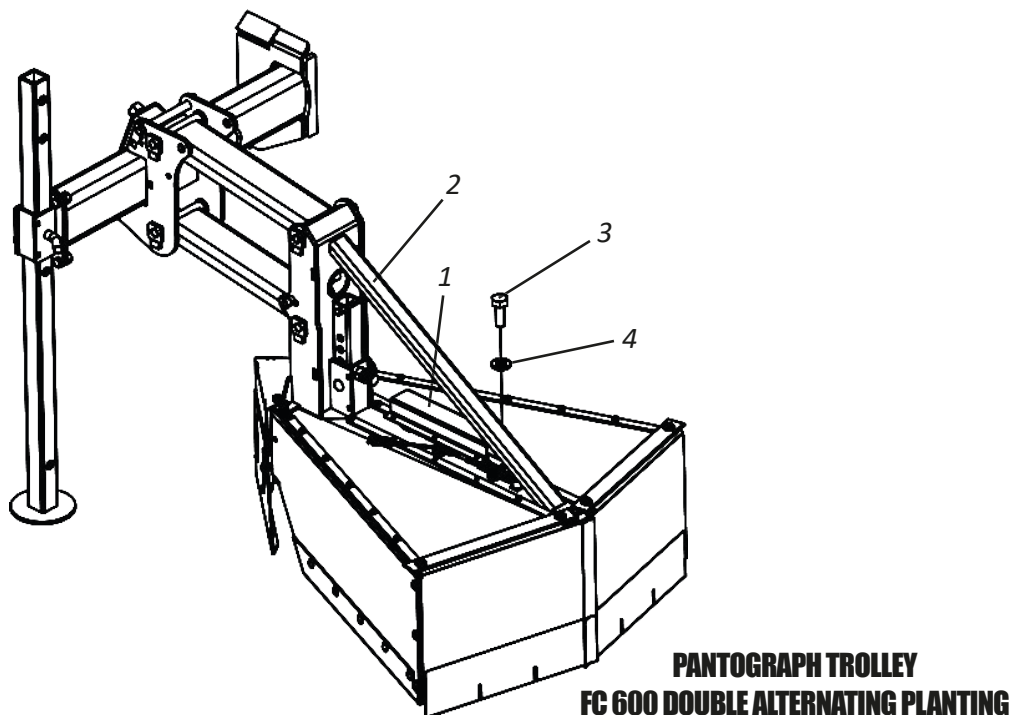
Items (1 and 2) will be mounted on the tractor. The electrical harness must be connected to the tractor's battery, respecting the system's charging capacity. The panel must be installed in a place protected from water, humidity and dust. When installation in a protected location is not possible, disconnect and transport the FC 600 after use.

## ■ Assembly

### • Assembling the nozzle sensor guard

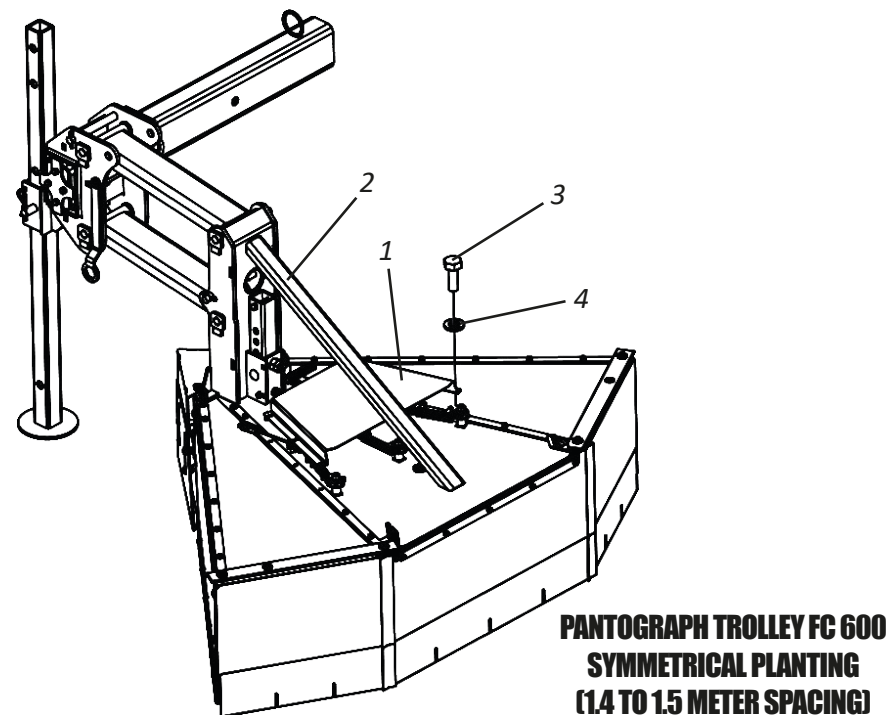
To install the nozzle sensor guard, proceed as follows:

**01** - Attach the nozzle sensor guard (1) to the pantograph trolley (2) using the screws (3) and spring washers (4).



### ⚠ ATTENTION

Do not work with the FC 600 without the nozzle sensor guards (1) mounted on the pantograph trolley (2). Ignoring this warning could cause damage to the hoses, connections and sensors.



### 📌 NOTE

Repeat the previous procedure to mount the nozzle sensor guard (1) on all pantograph trolleys (2).

## ▪ Hitch

### • Tractor hitch

Before attaching the **FC 600** to the tractor, check if the tractor is ready for the job, observing the following items:

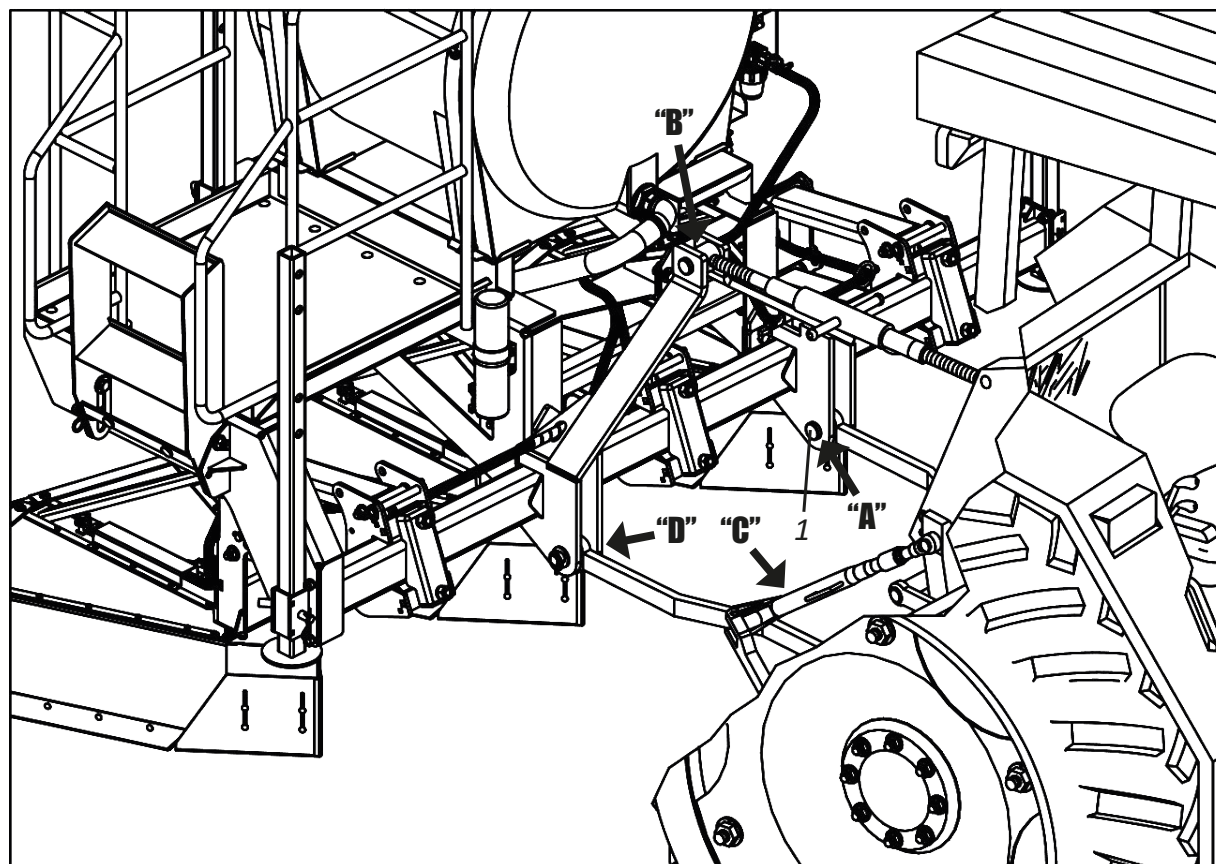
- Check if the tractor is equipped with a set of weights or ballasts on the front or front wheels so as not to lift the tractor. The rear wheels will give the tractor greater stability and traction on the ground.
- Adjust the eyebolt on the tractor's lower links.

To attach the **FC 600**, proceed as follows:

- 01** - Slowly approach the **FC 600** tractor in reverse gear, paying attention to the application of the brakes. Use the hydraulic position control lever when approaching the **FC 600**, leaving the lower left arm at the level of the **FC 600** hitch.
- 02** - Hitch the lower left arm of the tractor onto the "A" bracket of the **FC 600** via the hitching pin (1).
- 03** - Hitch the tractor's 3rd point to the **FC 600**'s "B" support.
- 04** - Finally, with the aid of the adjusting lever "C", hitch the lower right arm of the tractor onto the support "D" of the **FC 600**.

### ❗ IMPORTANT

When engaging the **FC 600**, look for a safe and easily accessible place, always use low gear with low acceleration. Make sure that when you release the tractor's hydraulics no one is near the Fast Clean's movement area.

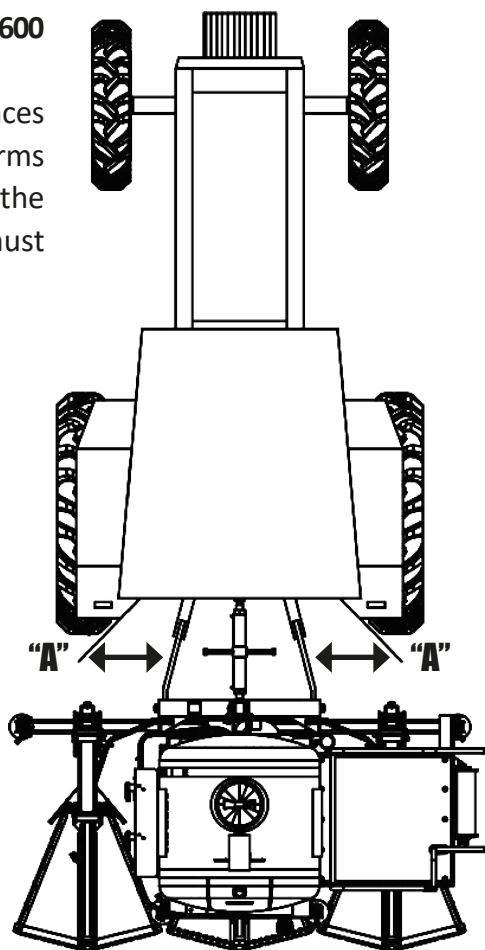


## ▪ Hitch

### • Centralization

To center the **FC 600** in relation to the longitudinal axis of the tractor, proceed as follows:

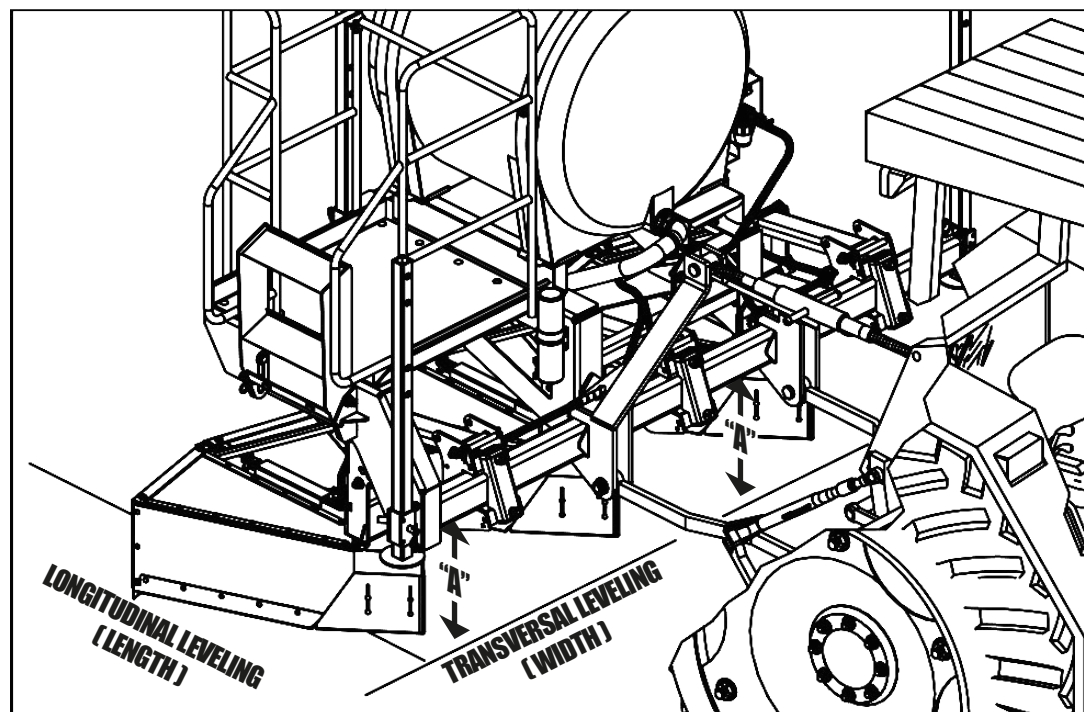
- 01** - Align the upper hitch of the **FC 600** as the 3rd point of the tractor.
- 02** - Next, check that the distances "A" of the lower hydraulic arms are equal to the tires of the tractor. The lower arms must be level with each other.



### • Leveling

To level the **FC 600**, proceed as follows:

- 01** - The tractor must be in a flat place.
- 02** - Then level the **FC 600** in the transverse direction (width) using the crank on the lower right arm of the hydraulic hitch. Note that the "A" measurements must be equal.
- 03** - Longitudinal leveling (length) is done via the 3rd point arm. Note that the lines must be parallel to the ground.



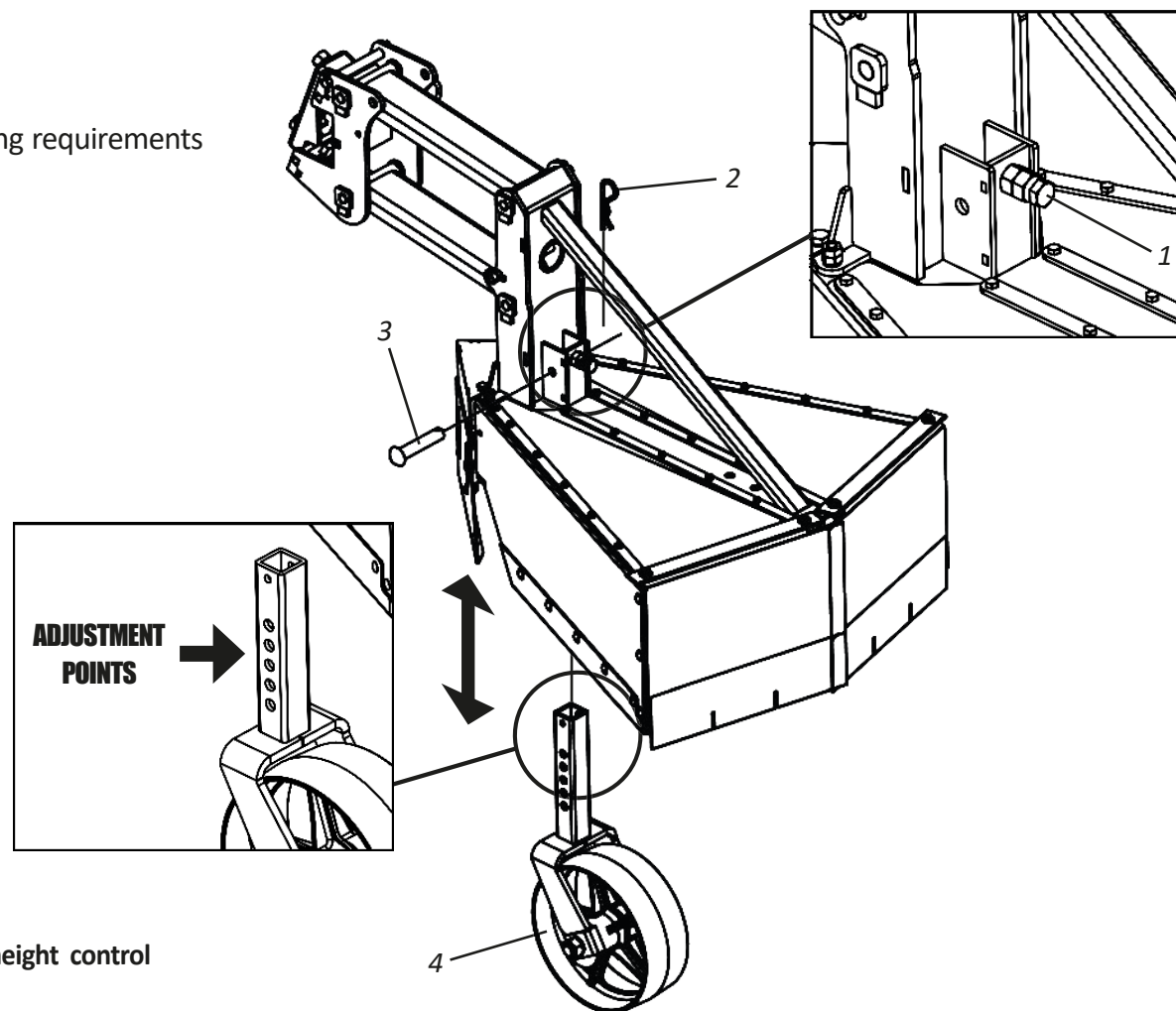


## ▪ Adjustments

### • Height control wheel adjustment

To adjust the height control wheel, proceed as follows:

- 01** - Loosen the screw (1).
- 02** - Then release the lock (2) and remove the pin (3).
- 03** - Then adjust the height control wheel (4) according to your working requirements work and lock it again with the pin (3) and lock (2).
- 04** - Then retighten the screw (1).



Repeat the previous procedure to adjust the height control wheels (4) of all the trolleys.

## ▪ Adjustments

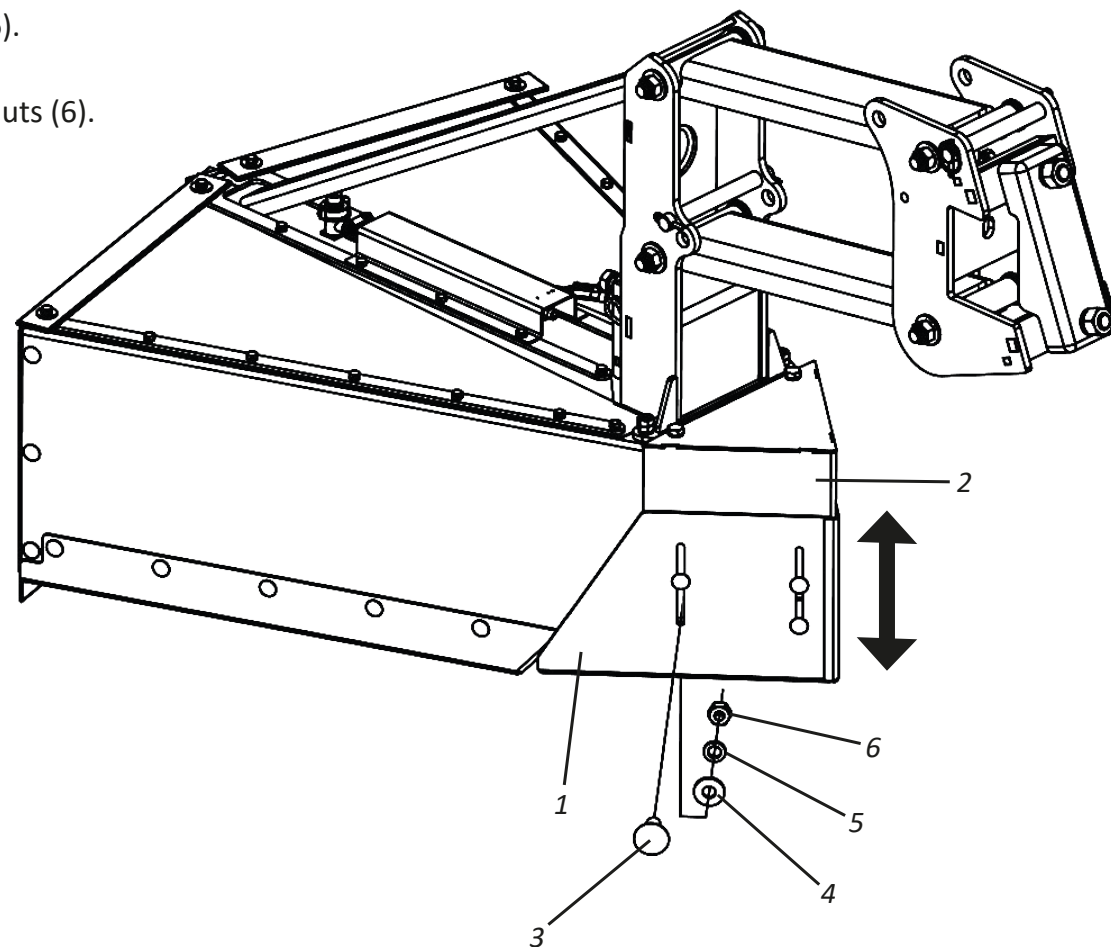
### • Trolley front support plate adjustment

Depending on the area or variety of cane to be worked, adjust the adjustment plate (1) on the front support of the trolley (2). To adjust the adjustment plate (1), proceed as follows:

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

**02** - Then adjust the adjustment plate (1).

**03** - Then tighten the screws (3), flat washers (4) spring washers (5) and nuts (6).



Repeat the previous procedure to adjust the adjustment plates (1) of all the trolleys.



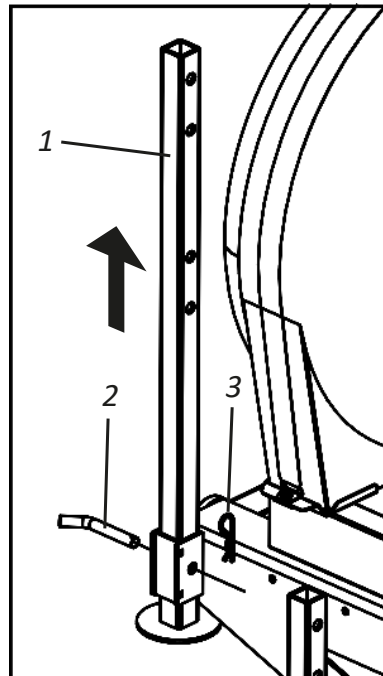
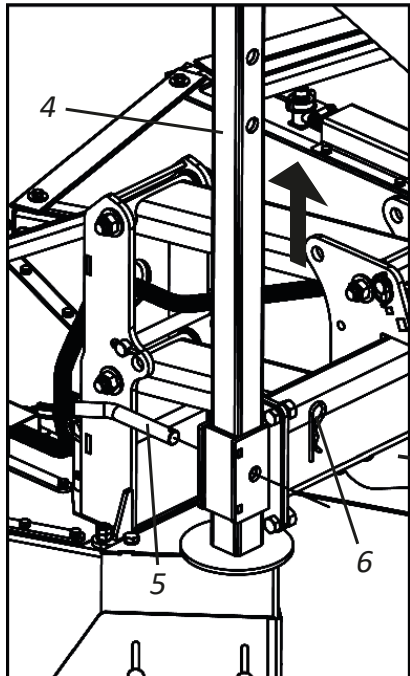
## ▪ Transportation/Work

### • Preparing for transport/work - FC 600 Double Alternate Planting - Part I

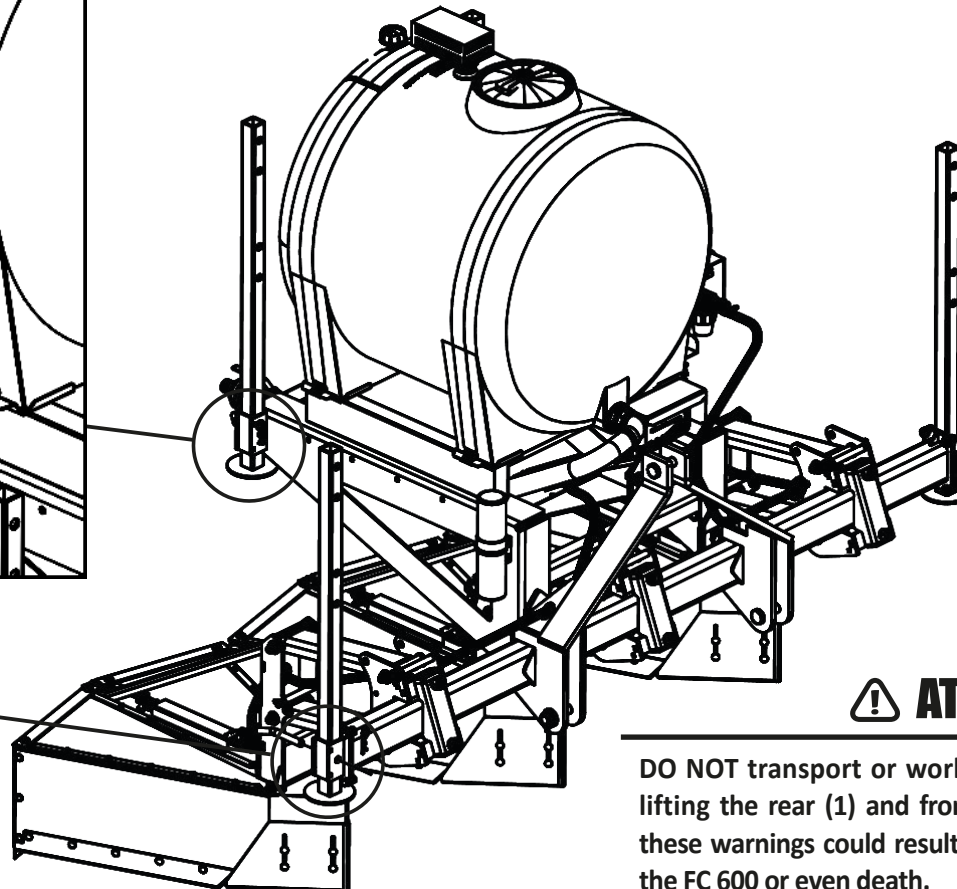
Before transporting or working with the **FC 600**, proceed as follows:

#### ❗ IMPORTANT

We recommend not transporting the FC 600 while loaded. Refuel it at the workplace.



- 01** - Remove the rear support brackets (1) and secure them with the pins (2) and locks (3).
- 02** - Then remove the front support brackets (4) and secure them with the pins (5) and locks (6).



#### ⚠ ATTENTION

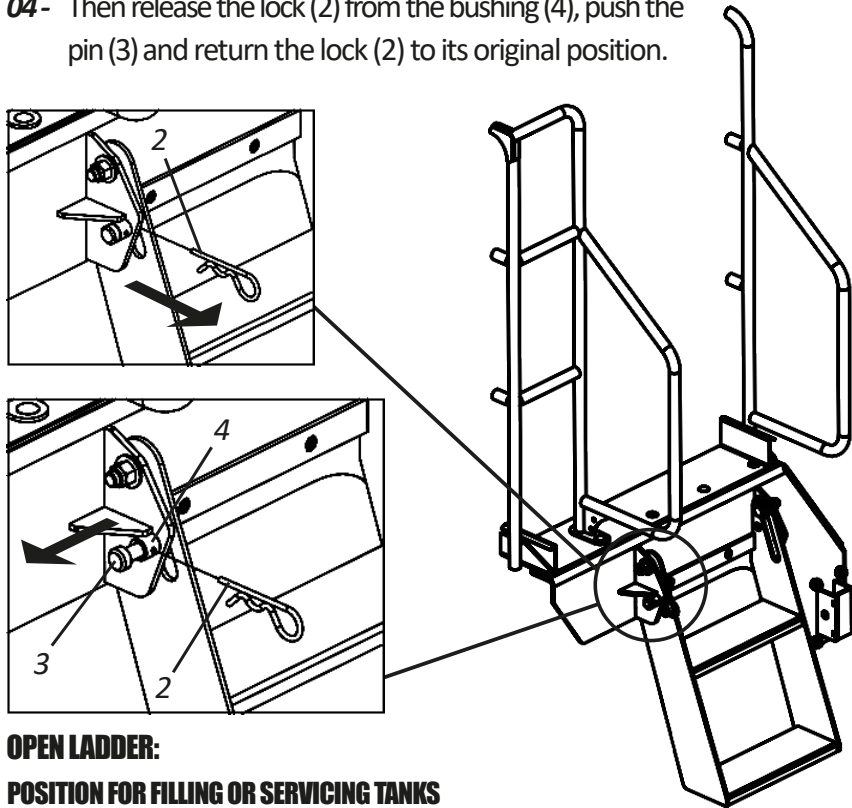
DO NOT transport or work with the FC 600 without first lifting the rear (1) and front (4) support brackets. Ignoring these warnings could result in serious accidents, damage to the FC 600 or even death.

## ■ Transportation/Work

### • Preparing for transport/work - FC 600 Double Alternate Planting - Part II

When purchased with a platform (**optional**), the **FC 600** has an articulating ladder (1) which should only be used when refueling or servicing the syrup and clean water tanks. To use it, proceed as follows:

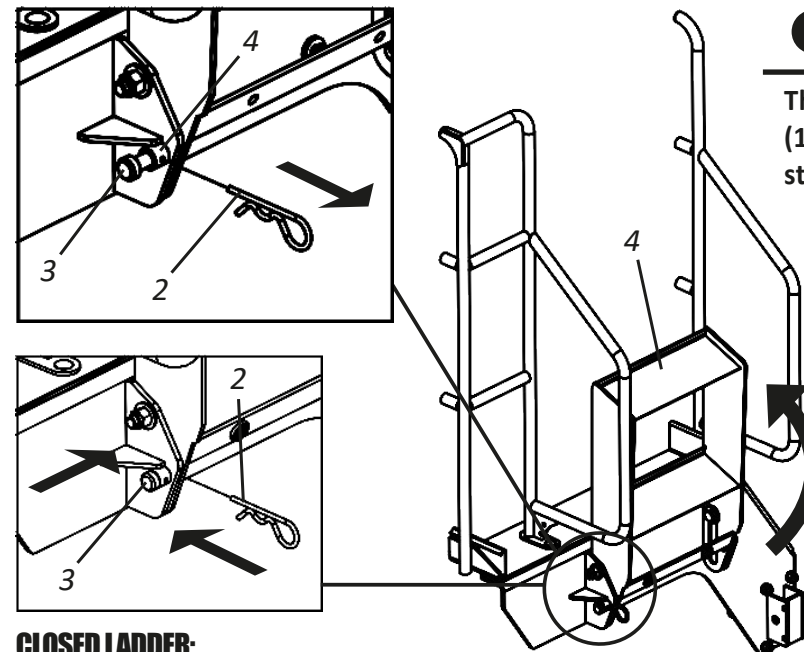
- 01** - First release the lock (2).
- 02** - Then pull the pin (3) and place the lock (2) on the bushing (4).
- 03** - Then position the ladder (1).
- 04** - Then release the lock (2) from the bushing (4), push the pin (3) and return the lock (2) to its original position.



**OPEN LADDER:**  
**POSITION FOR FILLING OR SERVICING TANKS**

### **ATTENTION**

Do not stand on the ladder when the FC 600 is working or being transported.  
Do not operate or transport the FC 600 with the ladder open.  
Do not transport people on the platform, ladder or any other part of the FC 600. Ignoring these warnings could result in serious accidents or even death.



**CLOSED LADDER:**  
**POSITION FOR WORK OR TRANSPORT**

### **IMPORTANT**

The articulating ladder (1) complies with NBR standards.

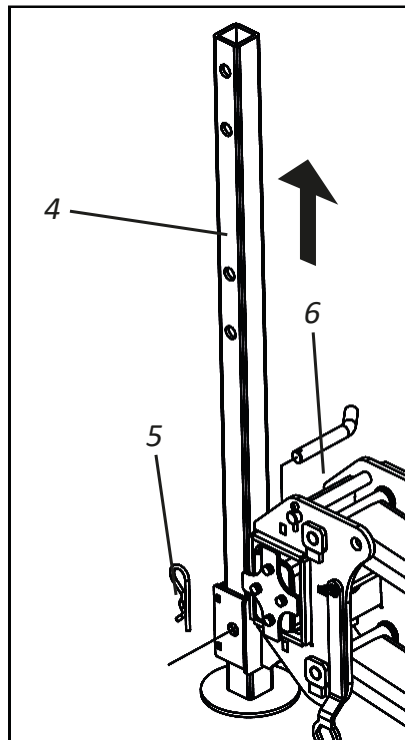
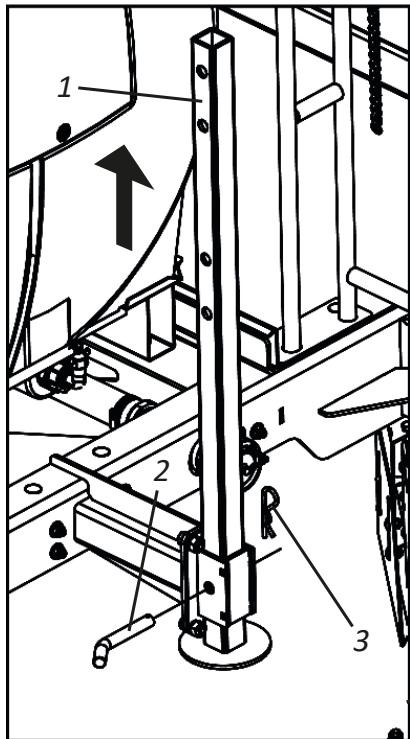
## ■ Transportation/Work

### • Preparing for transport/working - FC 600 Symmetrical (1.4 to 1.5 meter spacing) - Parte I

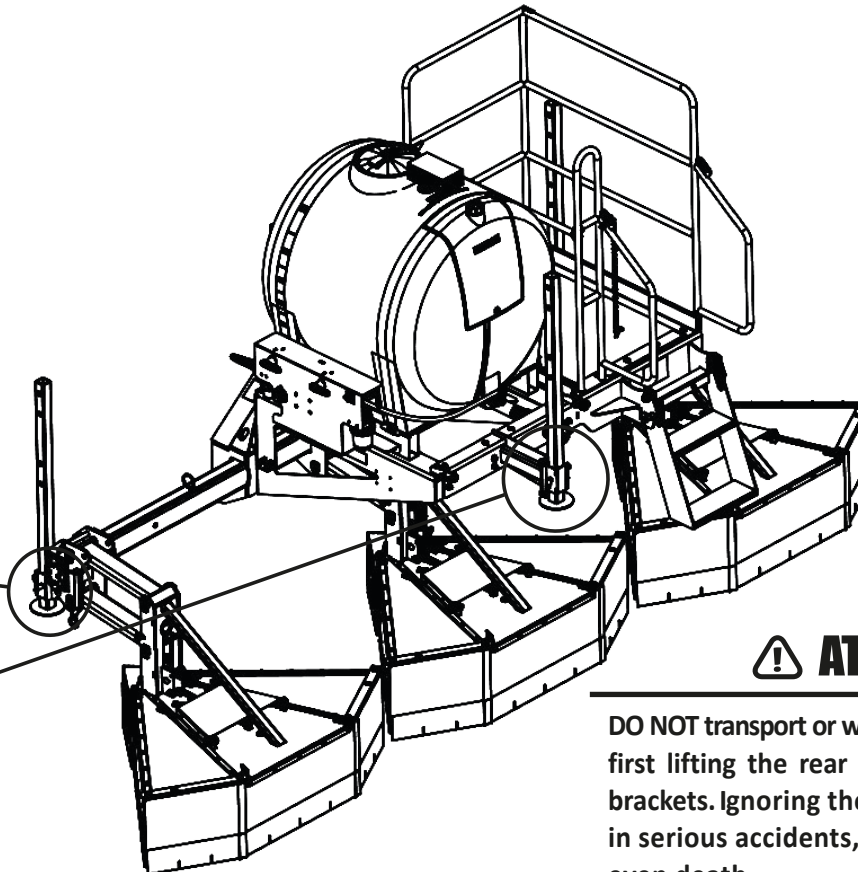
Before transporting or working with **FC 600** (symmetrical planting spacing of 1.4 to 1.5 meters), proceed as follows:

#### **! IMPORTANT**

We recommend not transporting the FC 600 while loaded. Refuel it at the workplace.



- 01** - Remove the rear support brackets (1) and secure them with the pins (2) and locks (3).
- 02** - Then remove the front support brackets (4) and secure them with the pins (5) and locks (6).



#### **! ATTENTION**

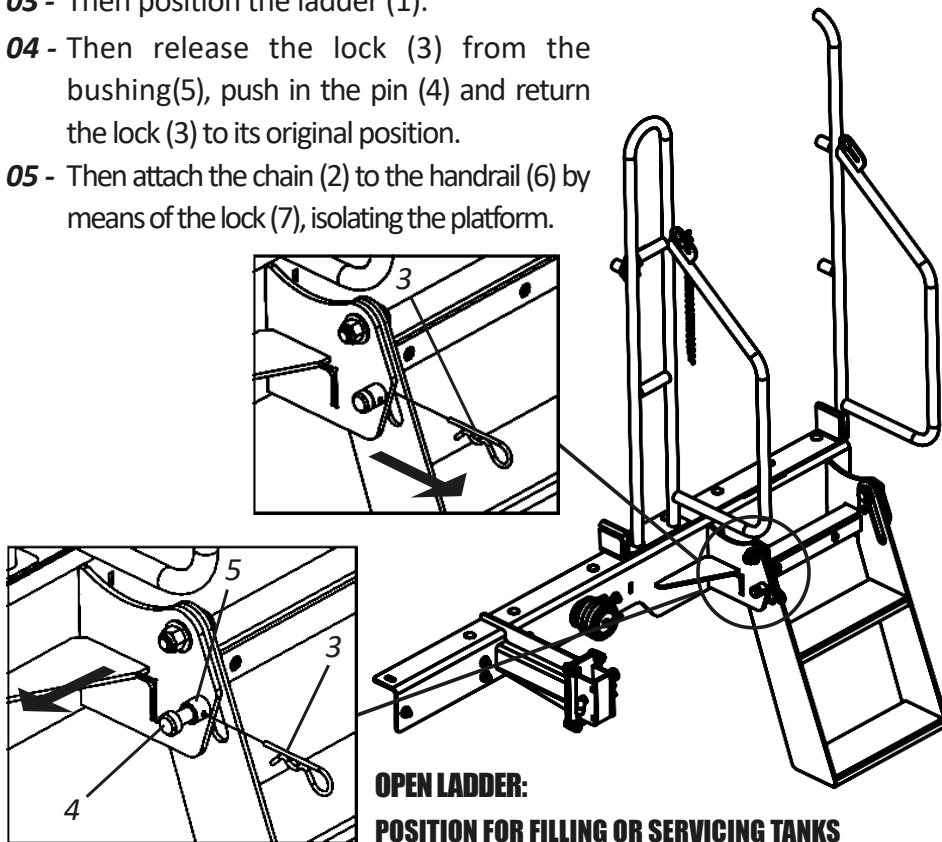
DO NOT transport or work with the FC 600 without first lifting the rear (1) and front (4) support brackets. Ignoring these warnings could result in serious accidents, damage to the FC 600 or even death.

## ■ Transportation/Work

### • Preparing for transport/working - FC 600 Symmetrical Planting (1.4 to 1.5 meter spacing) - Part II

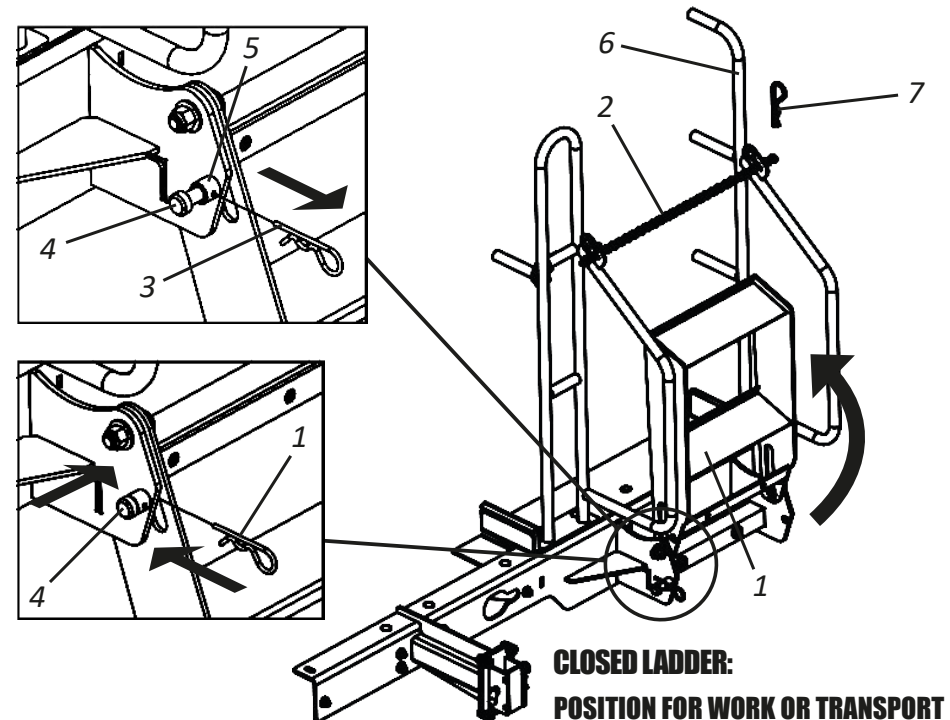
The **FC 600** (symmetrical planting spacing 1.4 to 1.5 meters) has a hinged ladder (1) and a chain (2) which should only be used when filling or servicing the syrup and clean water tanks. To use them, proceed as follows:

- 01** - First release the lock (3).
- 02** - Then pull the pin (4) and place the lock (3) on the bushing (5).
- 03** - Then position the ladder (1).
- 04** - Then release the lock (3) from the bushing(5), push in the pin (4) and return the lock (3) to its original position.
- 05** - Then attach the chain (2) to the handrail (6) by means of the lock (7), isolating the platform.



### **ATTENTION**

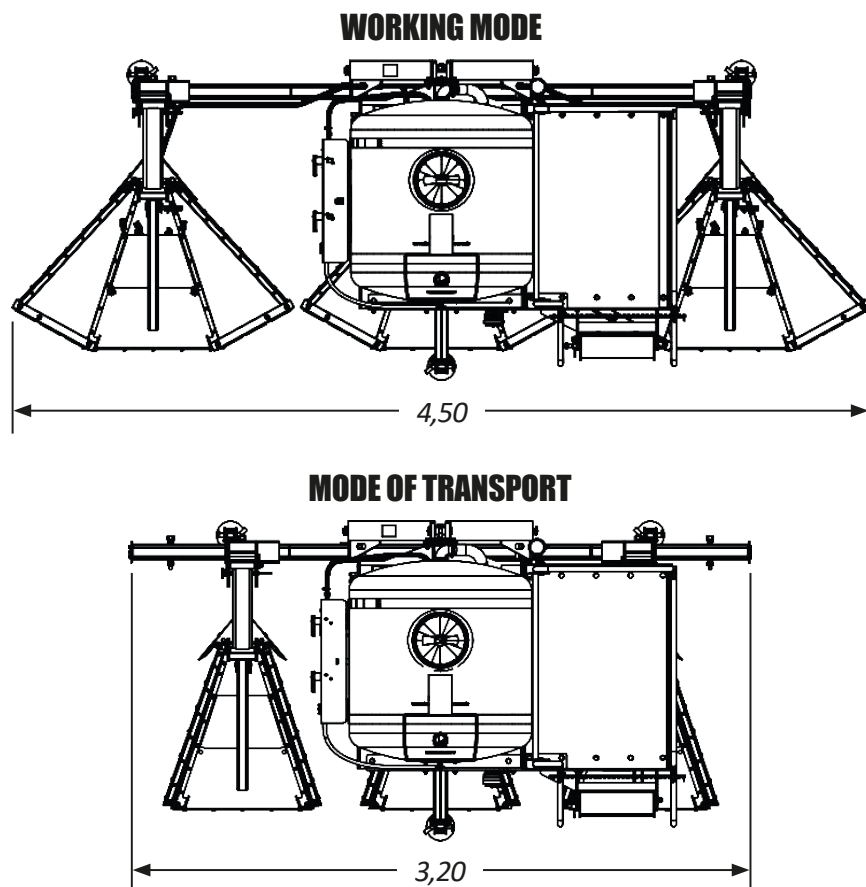
Do not stand on the ladder when the FC 600 is working or being transported.  
Do not operate or transport the FC 600 with the ladder open.  
Do not operate or transport the FC 600 with the chain unlocked.  
Do not transport people on the platform, ladder or any other part of the FC 600.  
Ignoring these warnings could result in serious accidents or even death.



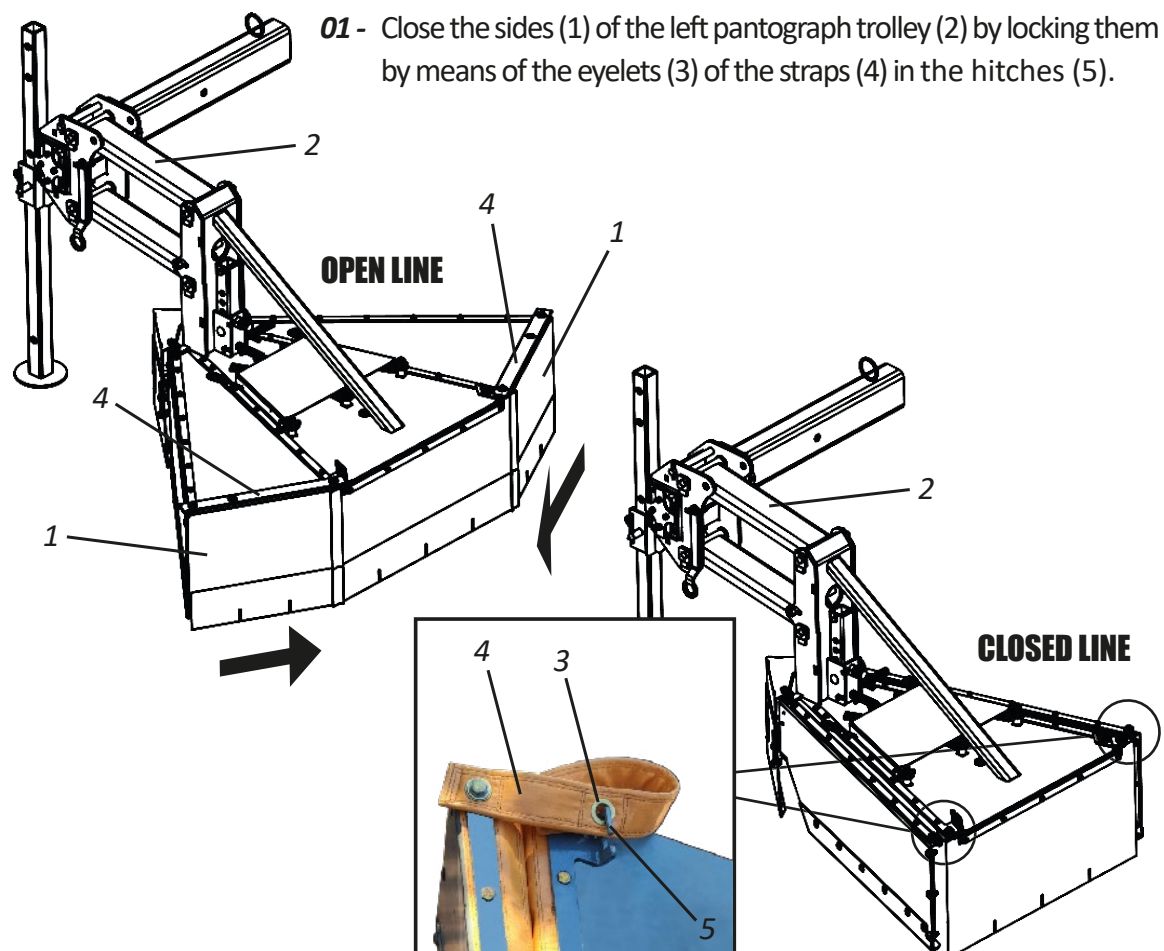
## ■ Transportation

### • Preparing for transport - FC 600 Symmetrical planting (1.4 to 1.5 meter spacing) - Part I

The **FC 600** Symmetrical Planting in working mode measures 4.50 m wide when set to the maximum spacing of 1.50 m. To transport it, set it to transport mode, reducing the width to 3.20 m.



To put the **FC 600** Symmetrical Planting into transport mode, proceed as follows:





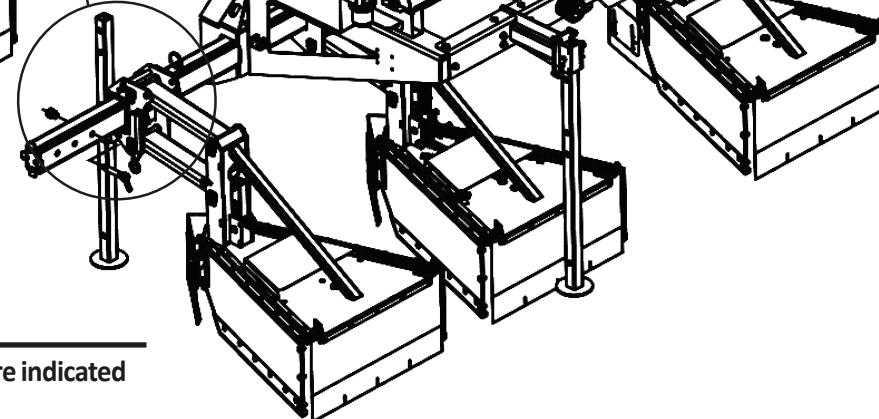
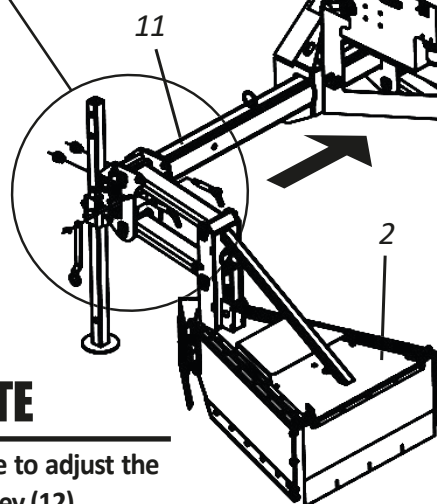
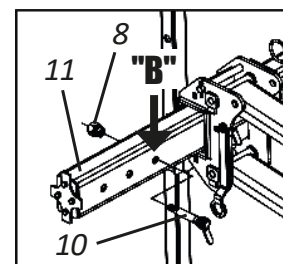
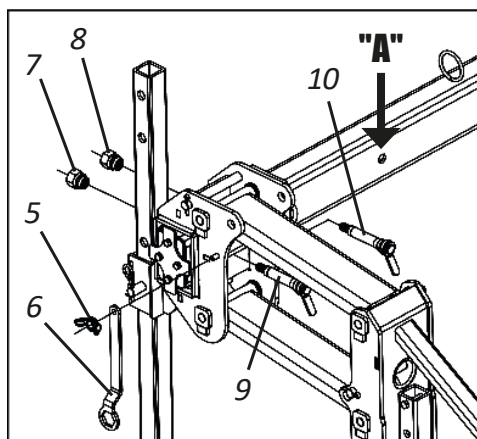
## ■ Transportation

### • Preparing for transport - FC 600 Symmetrical planting (1.4 to 1.5 meter spacing) - Part II

**02** - Then loosen the wing nut (5) and with the wrench (6), loosen the nuts (7 and 8) and remove the pins (9 and 10).

**03** - Then push the left pantograph trolley (2) up to point "A" on the frame (11) and lock it using the pin (9) and nut (7).

**04** - Then fasten the pin (10) to point "B" of the frame (11) using the nut (8).



### NOTE

Repeat the procedure to adjust the right pantograph trolley (12).

### IMPORTANT

The right and left pantograph trolleys are indicated by looking at the FC 600 from behind.

## ▪ Systems

The **FC 600** has 2 types of nozzles: **XP AIR** and **XP**. The **XP AIR** nozzles leave the factory mounted on the **FC 600**, while the **XP** nozzles are in the packaging box along with their respective tables.

### • XP AIR Nozzles

#### CHARACTERISTICS:

- Single fan nozzle - 110° opening (80° optional).
- Air induction system - Allows work in winds of up to 20km/h.
- Recommended working pressure: 2.1 to 6.9 bar / 30 to 100 PSI.
- Reduced drift even with high pressures and wind incidence
- Material: Ceramic.
- ISO color standard, 10mm cover fitting.



**XP AIR NOZZLE DISTRIBUTION TABLES, SEE PAGES 65 AND 70.**

### • XP Nozzles

#### CHARACTERISTICS:

- Single fan nozzle - 110° opening (80° optional).
- Pre-orifice system.
- Recommended working pressure: 1 to 2.1 bar / 15 to 30 PSI
- Compact size, less breakage by accident.
- Material: Ceramic.
- ISO color standard, 8mm cover fitting.



**XP NOZZLE DISTRIBUTION TABLES, SEE PAGES 71 AND 76.**



## ▪ Systems

### • Flow monitor

The **FC 600** has a flow monitor (1) which, in the event of clogging or any other malfunction in the system, will alert you with an audible warning and a **"red"** light corresponding to the problematic line. When all the lines are working perfectly, the lights on the flow monitor (1) will be **"green"**.

#### **ATTENTION**

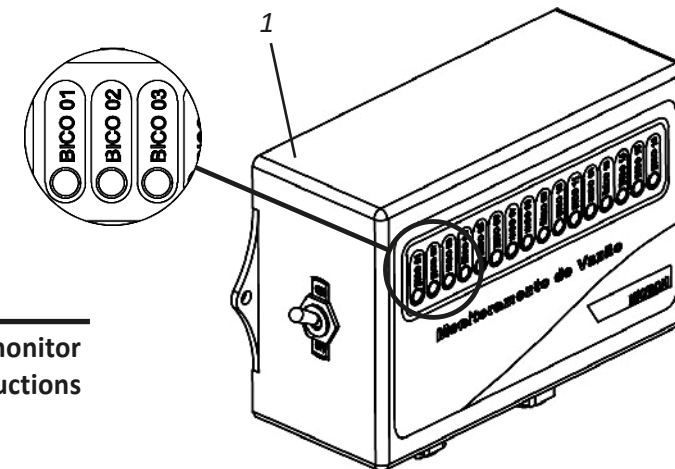
The flow monitor (1) does not control the system's flow, it only monitors it. The flow monitor (1) must be installed on the tractor.

#### **IMPORTANT**

Although the flow monitor (1) can monitor up to 16 nozzles, on the FC 600 it only monitors 3 nozzles, the maximum line capacity.

#### **NOTE**

To mount the flow monitor (1), follow the instructions on page 37.



### • Agitator and pump control panel

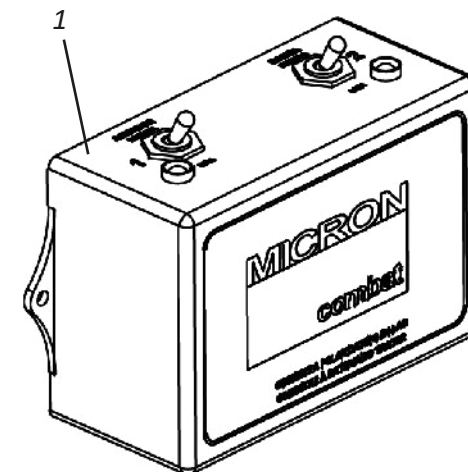
The **FC 600** has an agitator and pump control panel (1) which is used to start the system (agitator and pump).

#### **ATTENTION**

The agitator and pump control panel (1) must be installed on the tractor. When installing, observe the polarity (+) and (-) when connecting to the tractor battery.

#### **NOTE**

To mount the agitator and pump control (1), proceed according to the instructions on page 37.



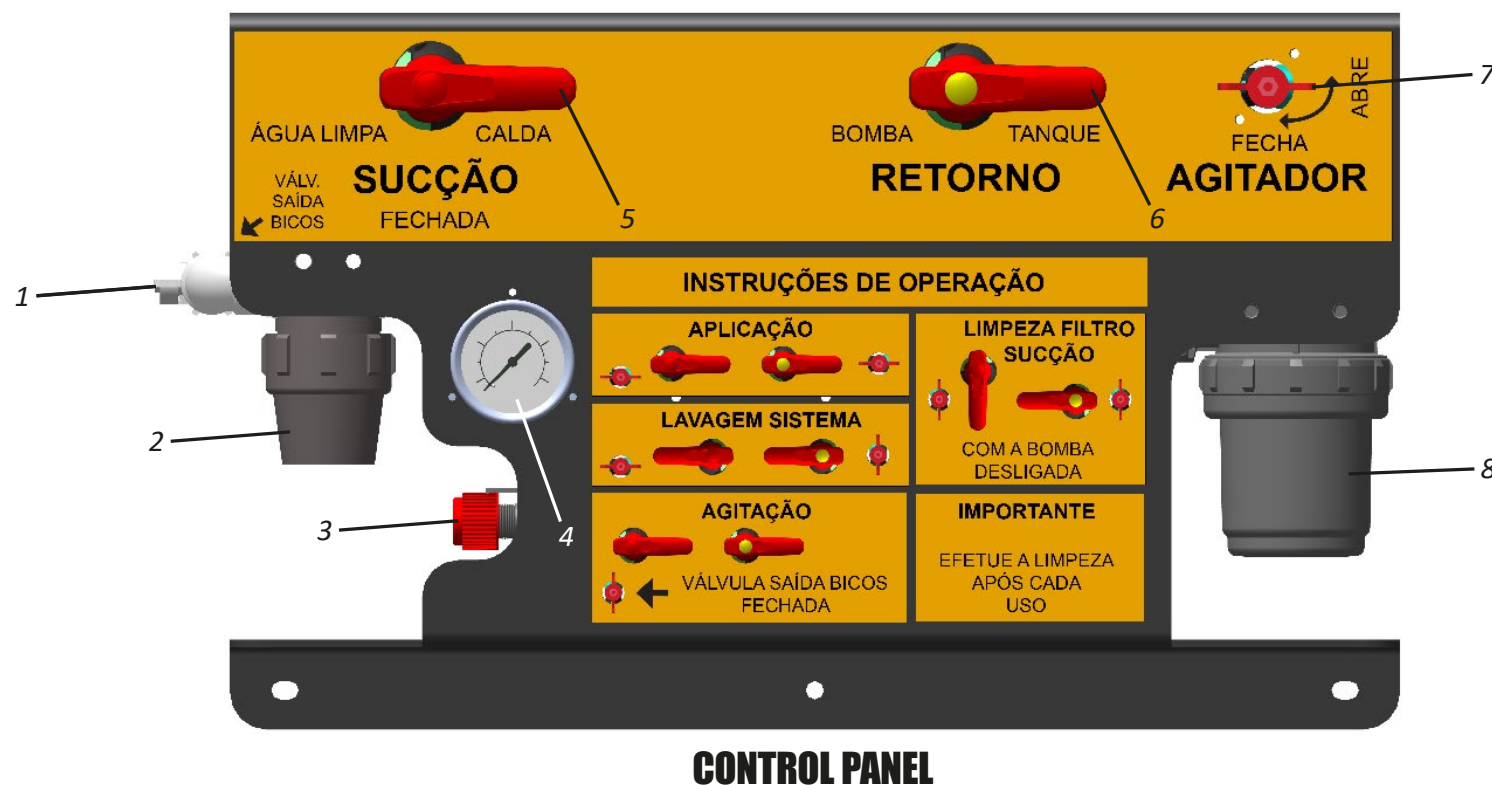
## ▪ Systems

### • Control Panel

The **FC 600** has a control panel. Various settings can be made via the control panel: Application, flushing of the system, agitation and cleaning of the suction filter.

### COMPONENTS:

- 01** - Line Filter Valve
- 02** - Line Filter
- 03** - Pressure regulator
- 04** - Manometer
- 05** - Suction Valve
- 06** - Return Valve
- 07** - Agitator valve
- 08** - Suction Filter



## ▪ Work

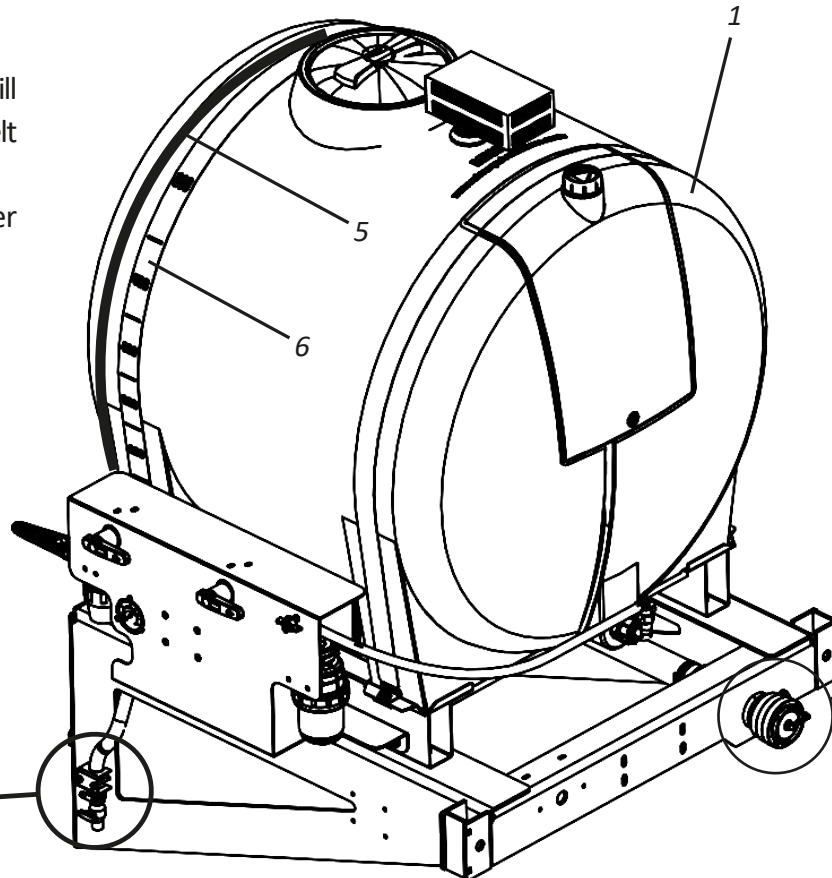
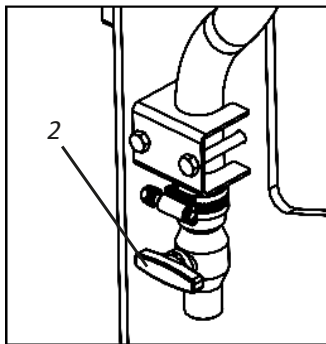
### • Filling the 600 liter tank - Syrup

To fill the 600-liter tank (1), proceed as follows:

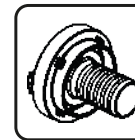
- 01** - Close the damper (2) if it is open.
- 02** - Then remove the cap (3), open the damper (4) and fill up, observing the level hose (5) and the marking belt in liters (6).
- 03** - When you have finished filling, close the damper (4) and replace the cap (3).

### NOTE

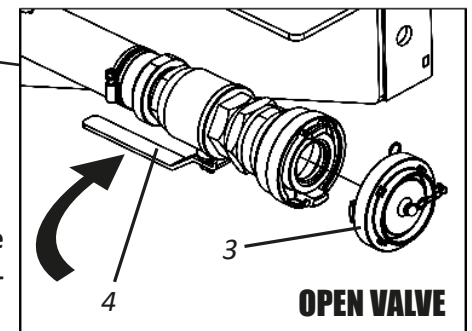
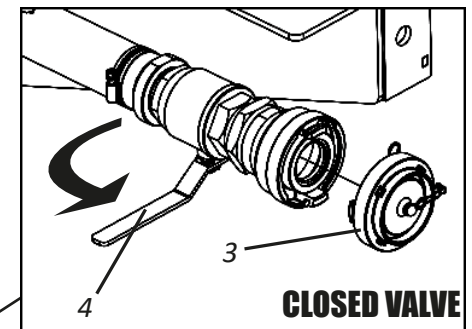
Once the 600-liter tank (1) has been filled, fill the 30-liter tank (clean water) according to the following page.



### ! IMPORTANT



The FC 600 package box comes with a swivel adapter to attach to the truck's supply hose in case it doesn't have an adapter.



### ! ATTENTION

We recommend preparing the mixture before filling the 600-liter tank, mixing the products and water before pouring it into the tank. Fill the tank to 1/3 of its capacity with clean water, add the products, stir the mixture - turn on the mechanical stirrer. Finish up with water and shake again.

## ▪ Work

### • Filling the 30-liter tank - Clean water

The **FC 600** has a 30-liter tank (1) for clean “non-drinkable” water. When the flushing system is activated (see pages 60 and 61), the clean water will clean the hoses and nozzles (see pages 34 to 36) after the conclusion of the work. To fill the 30-liter tank (1), proceed as follows:

**01** - Remove the cover (2).

**02** - Then fill up with clean water.

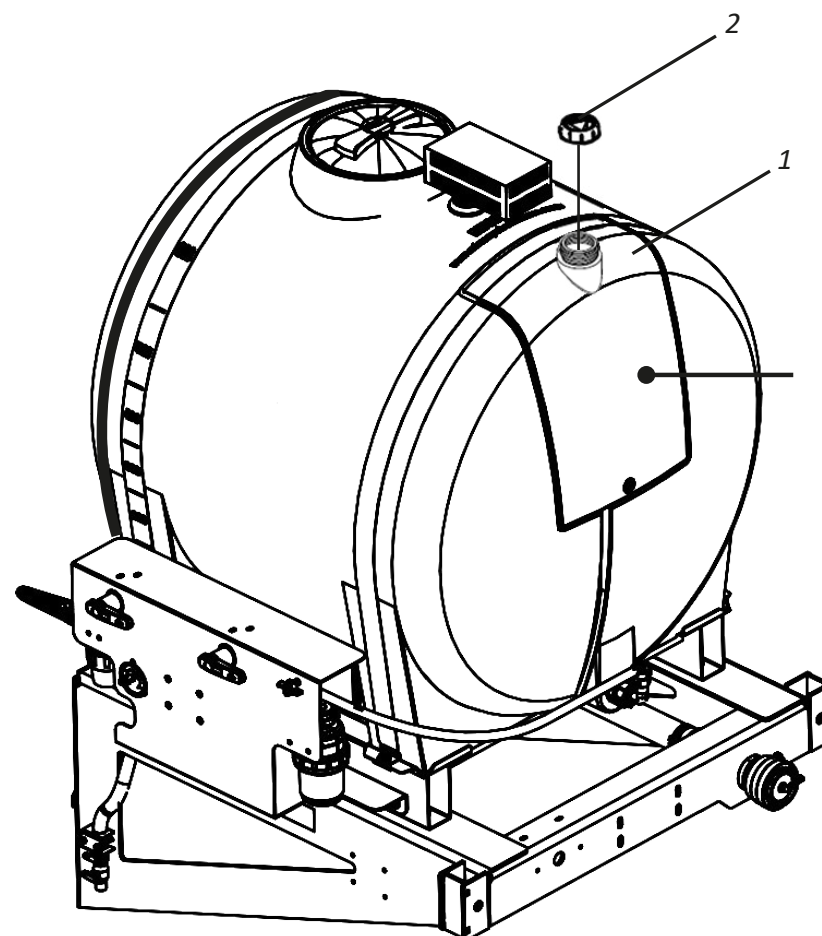
**03** - When you have finished filling up, put the cover back on (2).

### **ATTENTION**

The 30-liter tank (1) for clean “non-drinkable” water is only used for cleaning the hoses and nozzles and should not be ingested under any circumstances as it is unfit for human consumption. Ignoring this warning could cause health risks.

### **NOTE**

Once the 30-liter tank (1) has been filled, set up how to work with the FC 600 according to the instructions on the following page.



## ▪ Work

### • Definitions for the job

Before adjusting the **FC 600** to start work, follow the instructions below:

- 01** - Define the spacing to be worked (**80 cm or 90 cm**).
- 02** - Set the working speed according to the application area (**4 to 20 km/h**).
- 03** - Set the application rate L/ha according to agronomic recommendations.
- 04** - Check the table for the application rate and the color of the nozzle corresponding to this rate.
- 05** - Choose which nozzle to use for the job (**XP AIR or XP**) see page 48.
- 06** - Set the BAR pressure on the manometer according to the instructions on the following page.

### EXAMPLE:

Using the **FC 600** with a row spacing of **90cm** at a speed of **6km/h** applying **67L/ha** using **XP AIR** nozzles (**015#100**) colored **green**, the pressure to be used is **3.1 BAR**.

### NOTE

Once the work settings have been defined, proceed to adjust the **FC 600** according to the instructions on the following pages.

## FC 600 Tabela do Aplicador de Herbicida

ESPAÇAMENTO ENTRE LINHAS - 90CM

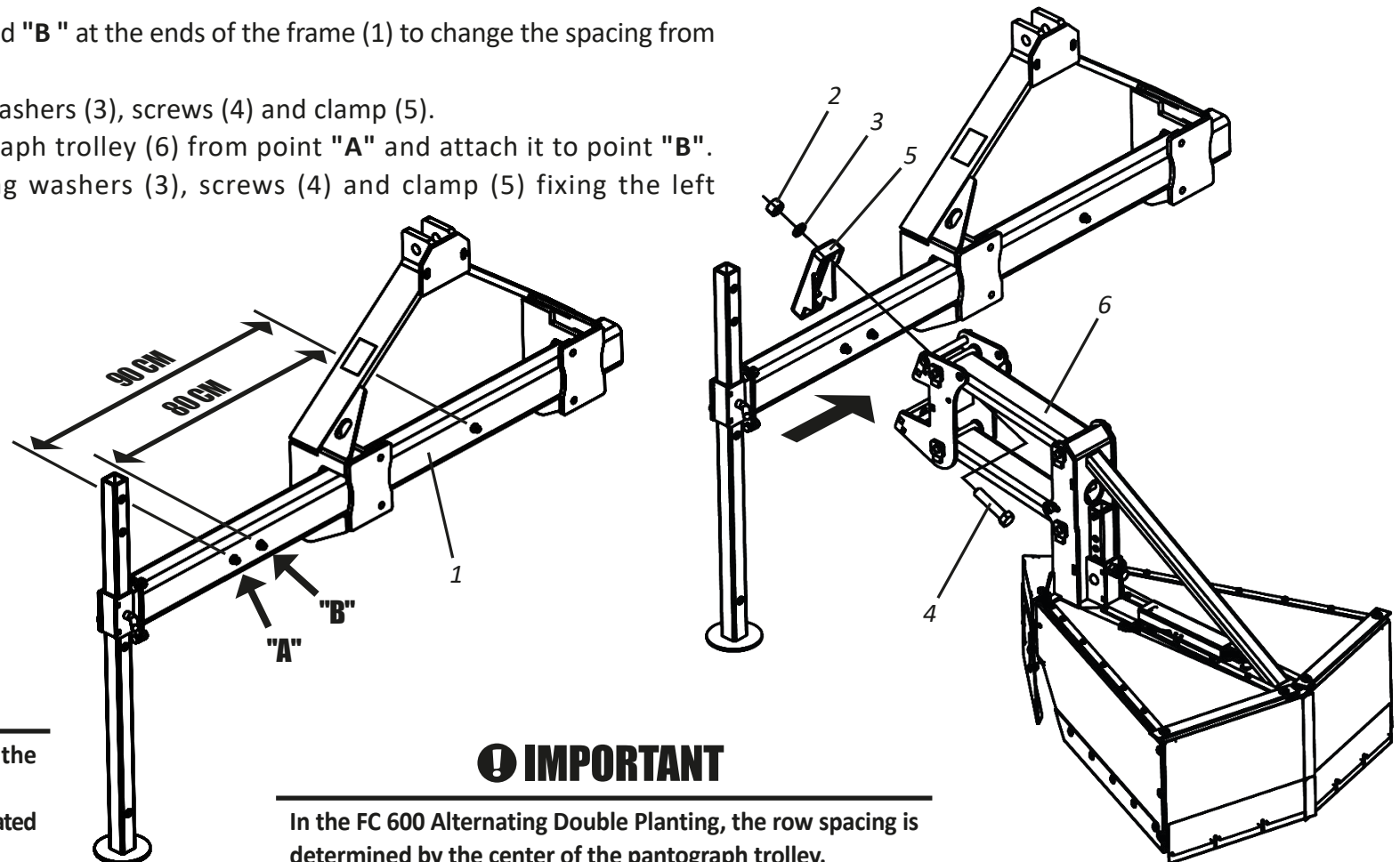
| COR<br>BICO        | Pressão |     | DMV | Vazão<br>(LPM) | Taxa de Aplicação L/ha (km/h) |     |     |     |     |     |     |    |    |    |    |
|--------------------|---------|-----|-----|----------------|-------------------------------|-----|-----|-----|-----|-----|-----|----|----|----|----|
|                    | BAR     | PSI |     |                | 4                             | 5   | 6   | 7   | 8   | 10  | 12  | 14 | 16 | 18 | 20 |
| XP AIR<br>015 #100 | 2,1     | 30  | MG  | 0,49           | 82                            | 65  | 54  | 47  | 41  | 33  | 27  | 23 | 20 | 20 | 16 |
|                    | 3,1     | 45  | G   | 0,60           | 100                           | 80  | 67  | 57  | 50  | 40  | 33  | 29 | 25 | 25 | 20 |
|                    | 4,1     | 60  | M   | 0,7            | 117                           | 93  | 78  | 67  | 58  | 47  | 39  | 33 | 29 | 29 | 23 |
|                    | 6,9     | 100 | M   | 0,9            | 150                           | 120 | 100 | 86  | 75  | 60  | 50  | 43 | 38 | 38 | 30 |
| XP AIR<br>02 #100  | 2,1     | 30  | MG  | 0,66           | 110                           | 88  | 73  | 63  | 55  | 44  | 37  | 31 | 28 | 28 | 22 |
|                    | 3,1     | 45  | MG  | 0,8            | 133                           | 107 | 89  | 76  | 67  | 53  | 44  | 38 | 33 | 33 | 27 |
|                    | 4,1     | 60  | G   | 0,93           | 155                           | 124 | 103 | 89  | 78  | 62  | 52  | 44 | 39 | 39 | 31 |
|                    | 6,9     | 100 | M   | 1,2            | 200                           | 160 | 133 | 114 | 100 | 80  | 67  | 57 | 50 | 50 | 40 |
| XP AIR<br>03 #80   | 2,1     | 30  | EG  | 0,98           | 163                           | 131 | 109 | 93  | 82  | 65  | 54  | 47 | 41 | 41 | 33 |
|                    | 3,1     | 45  | EG  | 1,2            | 200                           | 160 | 133 | 114 | 100 | 80  | 67  | 57 | 50 | 50 | 40 |
|                    | 4,1     | 60  | G   | 1,39           | 232                           | 185 | 154 | 132 | 116 | 93  | 77  | 66 | 58 | 58 | 46 |
|                    | 6,9     | 100 | G   | 1,8            | 300                           | 240 | 200 | 171 | 150 | 120 | 100 | 86 | 75 | 75 | 60 |

## ▪ Work

### • Row spacing adjustment 80 cm and 90 cm - FC 600 Double Alternate Planting

The **FC 600** Alternating Double Planter leaves the factory assembled with a spacing of **90 cm** and can be changed to **80 cm** according to your work needs. To change the line spacing, proceed as follows:

- 01** - Check the adjustment points "A" and "B" at the ends of the frame (1) to change the spacing from **80 cm** to **90 cm**.
- 02** - Then loosen the nuts (2), spring washers (3), screws (4) and clamp (5).
- 03** - Then disconnect the left pantograph trolley (6) from point "A" and attach it to point "B".
- 04** - Then tighten the nuts (2), spring washers (3), screws (4) and clamp (5) fixing the left pantograph trolley (6).



#### **NOTE**

Repeat the previous procedure to adjust the spacing of the right pantograph trolley. The right and left pantograph trolleys are indicated by looking at the FC 600 from behind.

#### **IMPORTANT**

In the FC 600 Alternating Double Planting, the row spacing is determined by the center of the pantograph trolley.

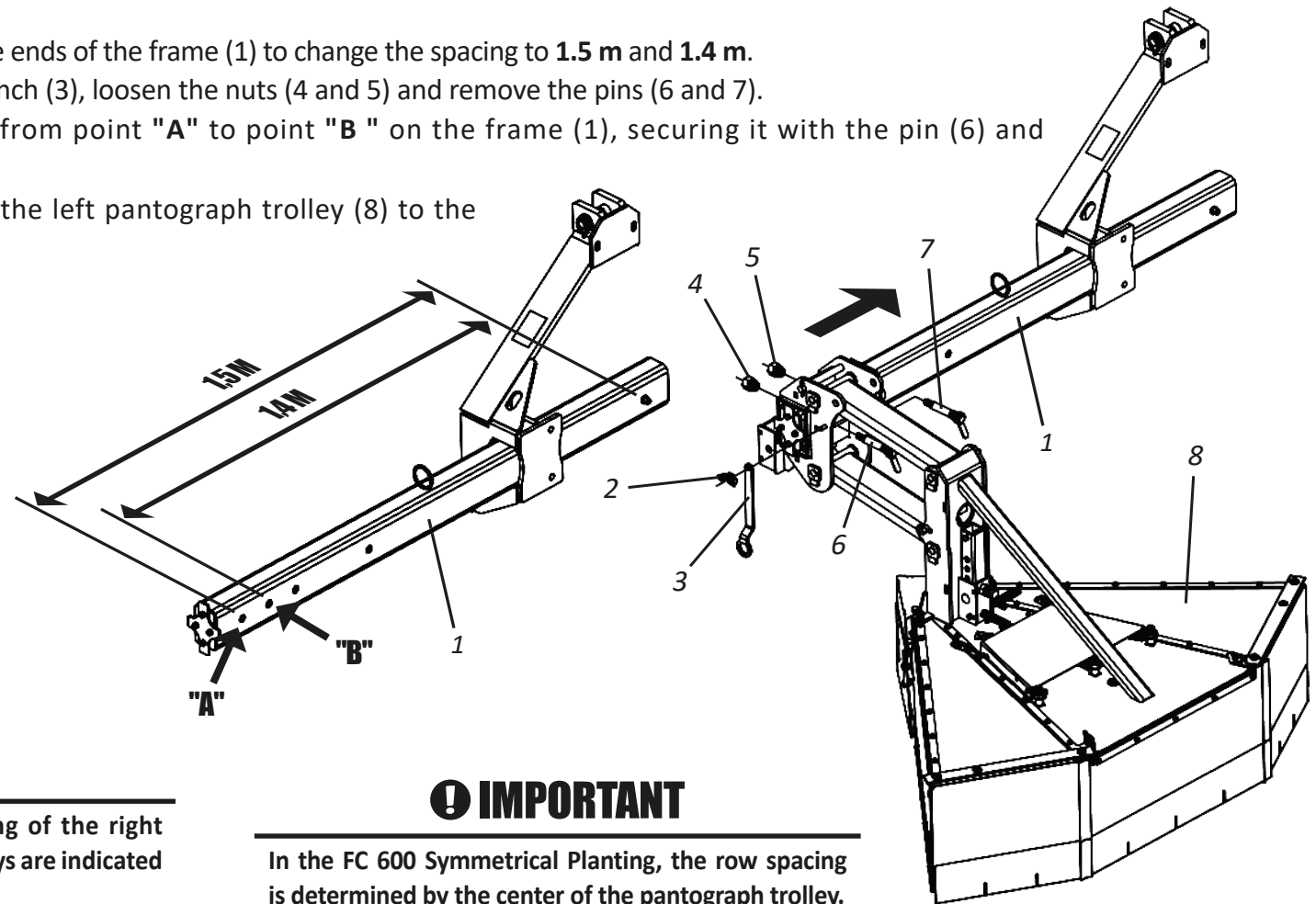


## ▪ Work

### • Row spacing adjustment 1.4 m and 1.5 m - FC 600 Symmetrical Planting

The **FC 600** Symmetrical Planter leaves the factory assembled with a spacing of **1.5 m** and can be changed to **1.4 m** according to your work requirements. To change the line spacing, proceed as follows:

- 01** - Check the adjustment points "A" and "B" at the ends of the frame (1) to change the spacing to **1.5 m** and **1.4 m**.
- 02** - Then loosen the wing nut (2) and with the wrench (3), loosen the nuts (4 and 5) and remove the pins (6 and 7).
- 03** - Then push the left pantograph trolley (8) from point "A" to point "B" on the frame (1), securing it with the pin (6) and nut (4).
- 04** - Then attach the pin (7) and nut (5) locking the left pantograph trolley (8) to the frame (1).



### **NOTE**

Repeat the previous procedure to adjust the spacing of the right pantograph trolley. The right and left pantograph trolleys are indicated by looking at the FC 600 from behind.

### **IMPORTANT**

In the FC 600 Symmetrical Planting, the row spacing is determined by the center of the pantograph trolley.

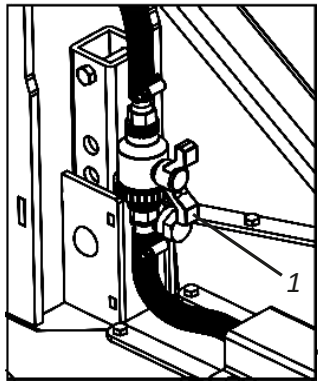


## Work

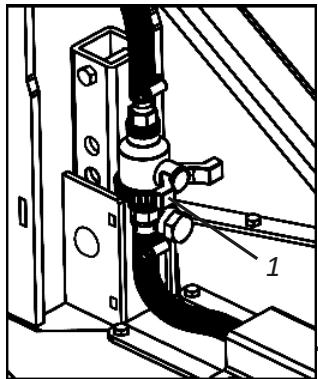
### • Row spacing adjustment - 160 cm and 180 cm

The **FC 600** has the option of deactivating the center line and working with two lines spaced **160 cm** or **180 cm** apart, depending on your needs . To deactivate the center line, proceed as follows:

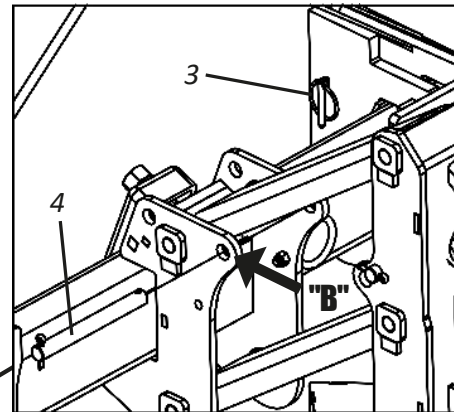
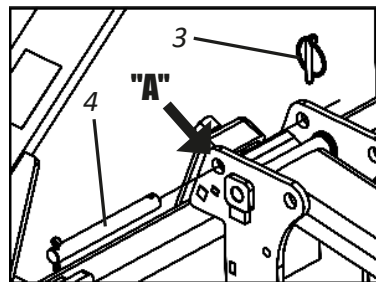
**01** - Close the valve (1) of the center line (2).



**OPEN VALVE**

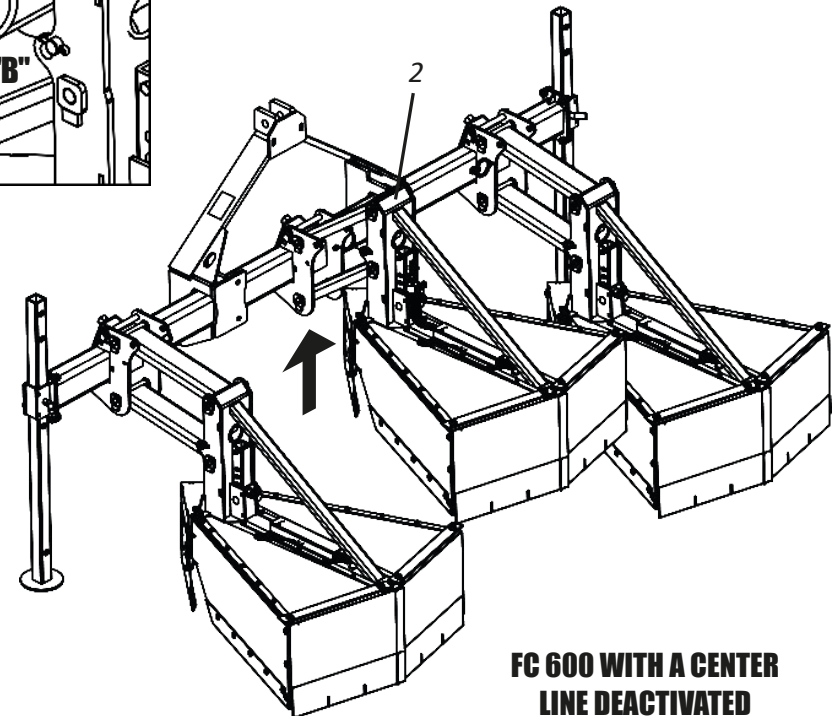


**CLOSED VALVE**



**02** - Then release the ring lock (3) and remove the pin (4) from point "A" on the center line (2).

**03** - Then lift the center line (2) and place the pin (4) at point "B", locking it with the ring lock (3).



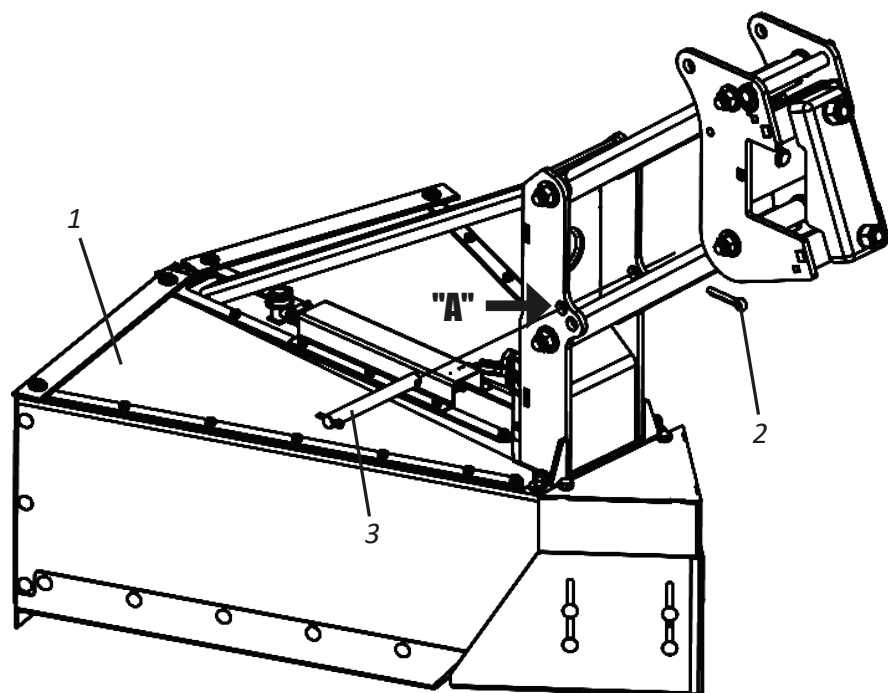
**FC 600 WITH A CENTER LINE DEACTIVATED**

## ▪ Work

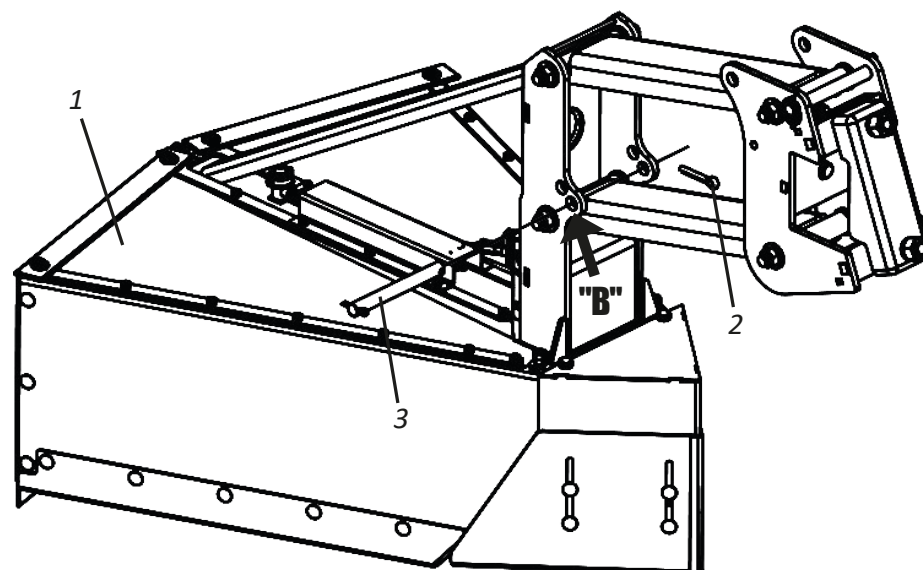
### • Adjusting the trolley pantograph

During work, for the trolleys (1) to copy the ground, adjust their pantograph using points "A" and "B". To adjust the pantograph of the trolleys (1), proceed as follows:

**01** - Release the lock (2) and remove the pin (3) from point "A".



**02** - Then place the pin (3) at point "B", securing it with the lock (2).



### ❗ IMPORTANT

When activating the tractor's hydraulics to suspend the FC600, if the pantograph trolleys are adjusted to point "A", they will be close to the ground; If you wish to increase this distance, adjust the pantograph trolleys to point "B".

### 📌 NOTE

Repeat the previous procedure to adjust the pantograph of all trolleys.

## ▪ Work

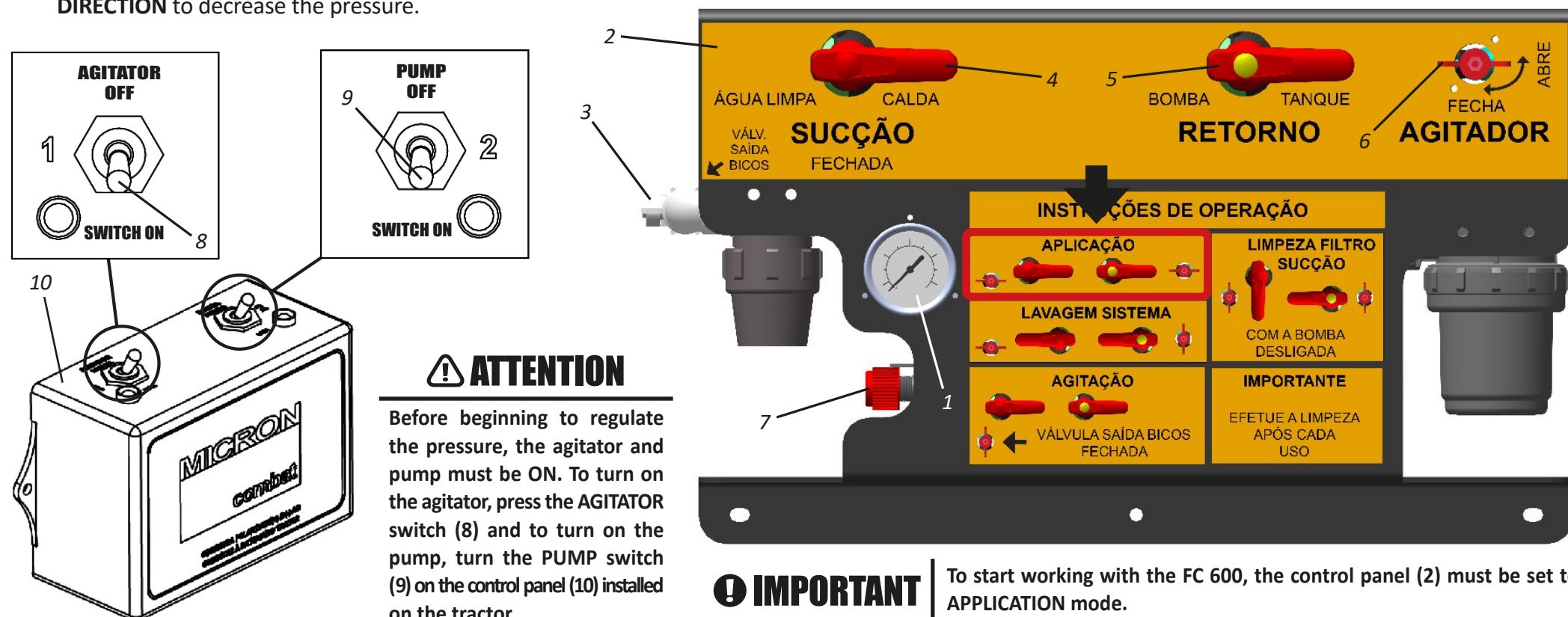
### • Pressure regulation (BAR)

To set the BAR pressure on the manometer (1) on the control panel (2), proceed as follows:

**01** - Make sure the control panel (2) is in **APPLY** mode.

- In **APPLICATION** mode, the damper (3) must be **OPEN**, the crank (4) in the **SYRUP** position, the crank (5) in the **TANK** position and the damper (6) in the **OPEN** position.

**02** - Then, looking at the manometer (1) turn the pressure regulator (7) in the **CLOCKWISE DIRECTION** to increase the pressure and in the **COUNTER-CLOCKWISE DIRECTION** to decrease the pressure.



## ▪ Work

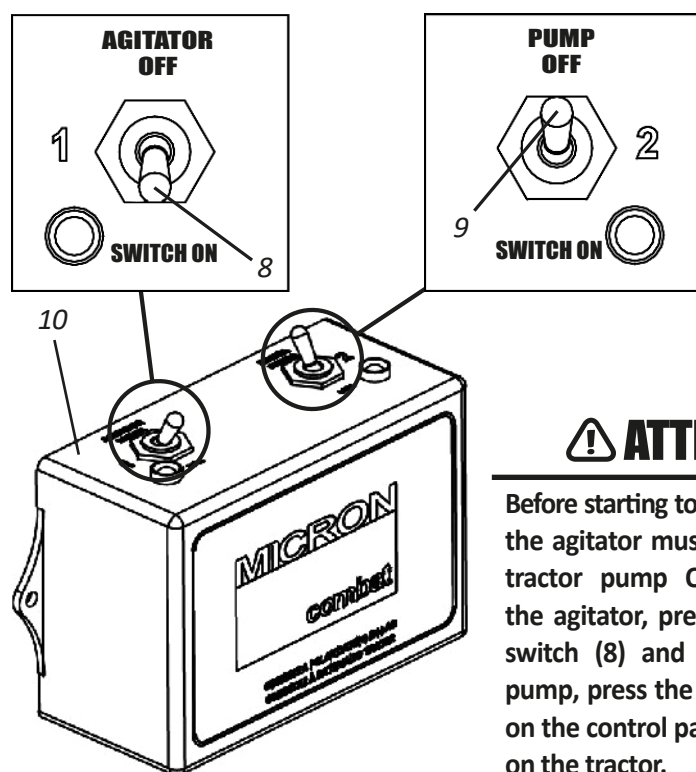
### • System flushing settings - Part I

To flush the system, proceed as follows:

**01** - Make sure the control panel (1) is in **SYSTEM WASH** mode.

- In **SYSTEM WASH** mode, the damper (2) must be **OPEN**, the handle (3) in the **CLEAN WATER** position, the handle (4) in the **PUMP** position and the damper (7) in the **CLOSE** position.

**02** - Then flush the system according to the instructions on the following page:



### ⚠ ATTENTION

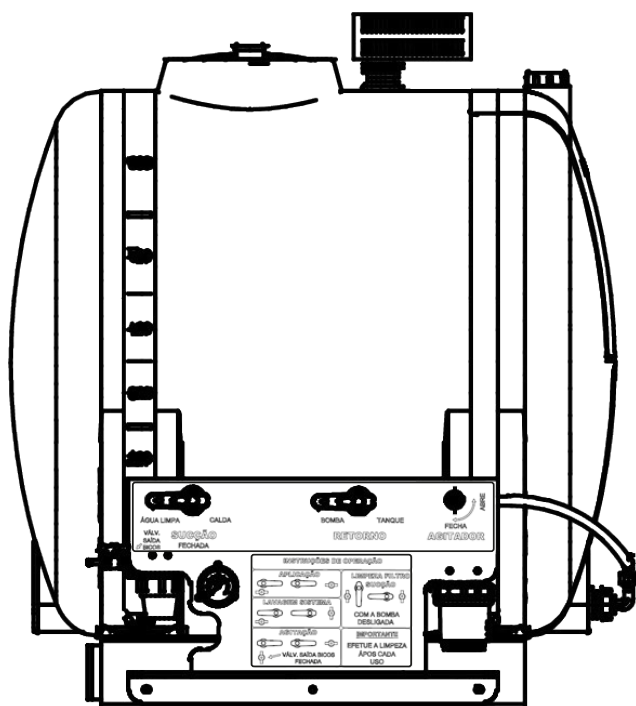
Before starting to flush the system, the agitator must be ON and the tractor pump OFF. To turn on the agitator, press the AGITATOR switch (8) and to turn off the pump, press the PUMP switch (9) on the control panel (10) installed on the tractor.



## ▪ Work

### • System flushing settings - Part II

- A) Start the pump and wait for clean water to flow out of the nozzles.  
B) Then turn off the pump.

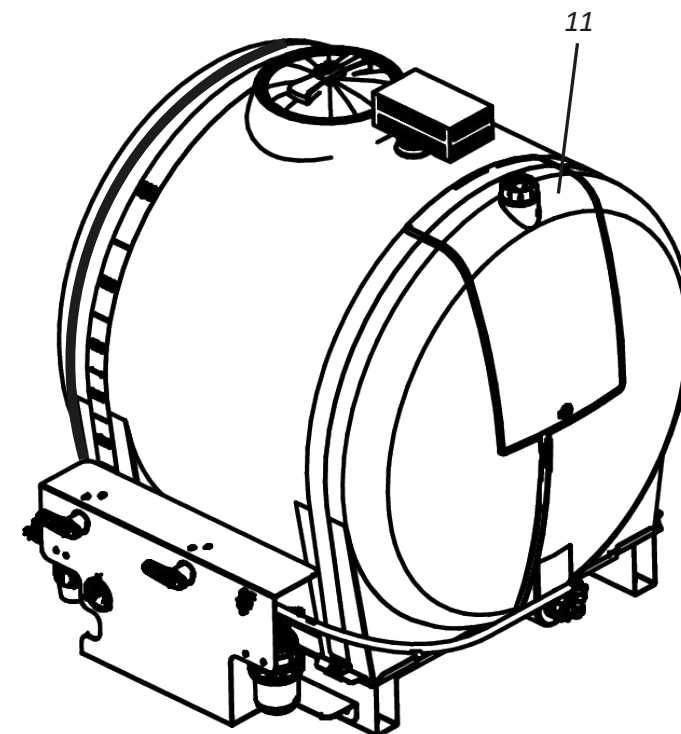


### ❗ IMPORTANT

When you have finished flushing, remember to return the valves to their original position before reapplying products and returning the system to its original pressure.

### ⚠ ATTENTION

Before you start flushing the system, make sure that the 30-liter tank (11) is filled with water. Failure to do so can cause the pump to burn out.



### 📌 NOTE

We recommend carrying out this operation every day before stopping the FC 600 and, depending on the product, at every refueling.



## ▪ Work

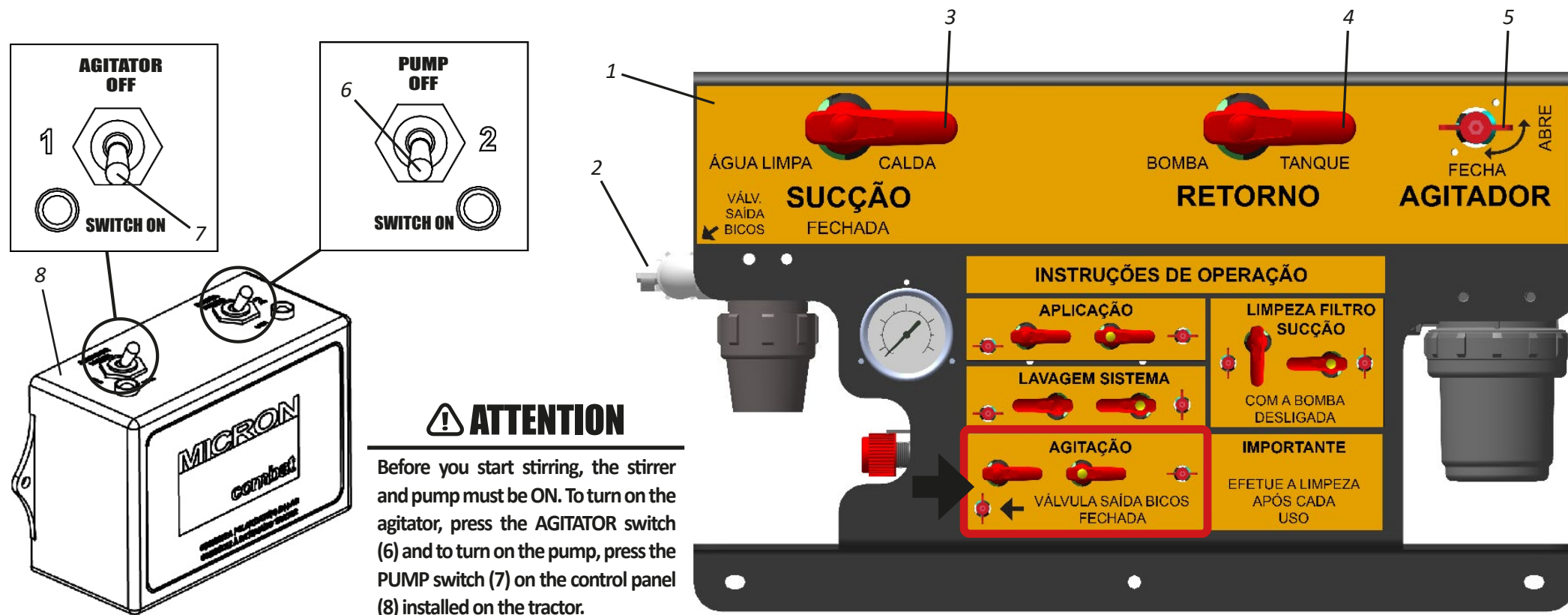
### • Adjustment for Stirring

When the product to be applied is dense, first activate the **AGITATION** system to homogenize the product, proceed as follows:

**01** - Make sure the control panel (1) is in **AGITATION** mode.

- In **AGITATION** mode, the damper (2) must be **CLOSED**, the crank (3) in the **SYRUP** position, the crank (4) in the **TANK** position and the damper (5) in the **OPEN** position.

**02** - Then activate the **AGITATION** system.





## ▪ Work

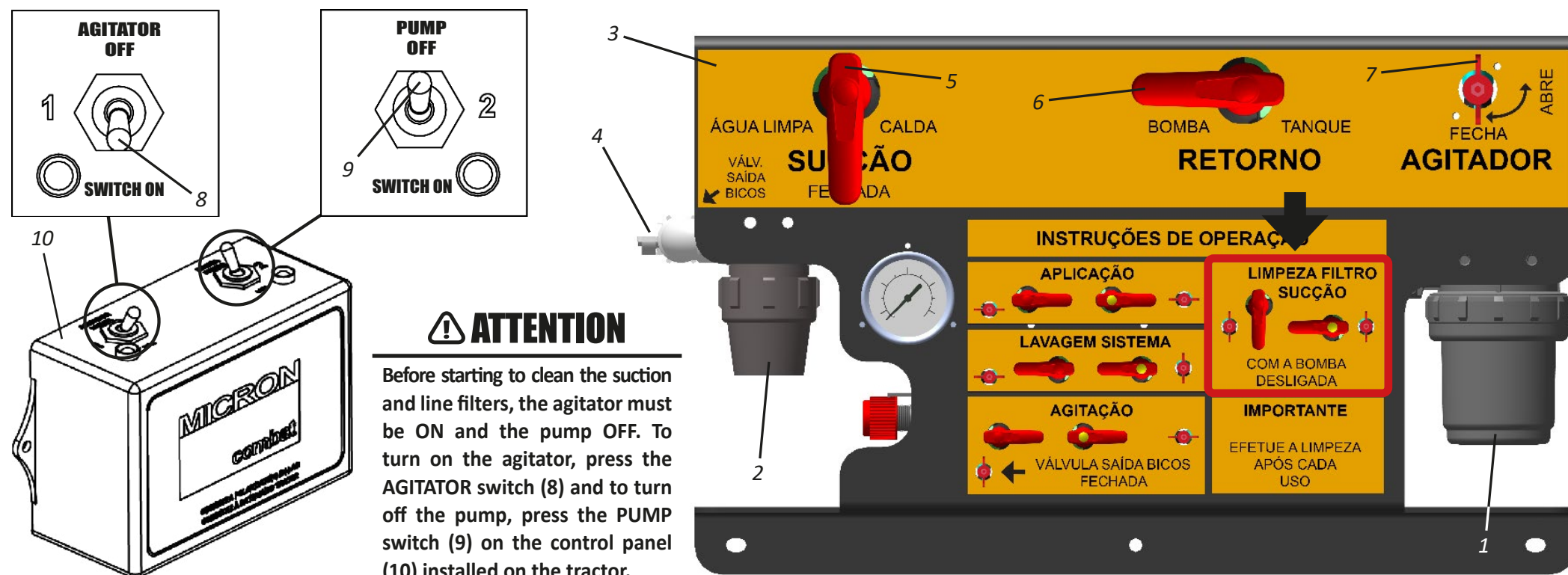
### • Adjustment for cleaning suction and line filters - Part I

To clean the suction (1) and line (2) filters on the control panel (3), proceed as follows:

**01** - Make sure the control panel (3) is in **CLEANING SUCTION FILTER** mode.

- In **CLEANING SUCTION FILTER** mode, the damper (4) must be **CLOSED**, the crank (5) in the **SUCTION CLOSED** position, the crank (6) in the **PUMP** position and the damper (7) in the **CLOSE** position.

**02** - Then clean the suction (1) and line (2) filters according to the instructions on the following page:

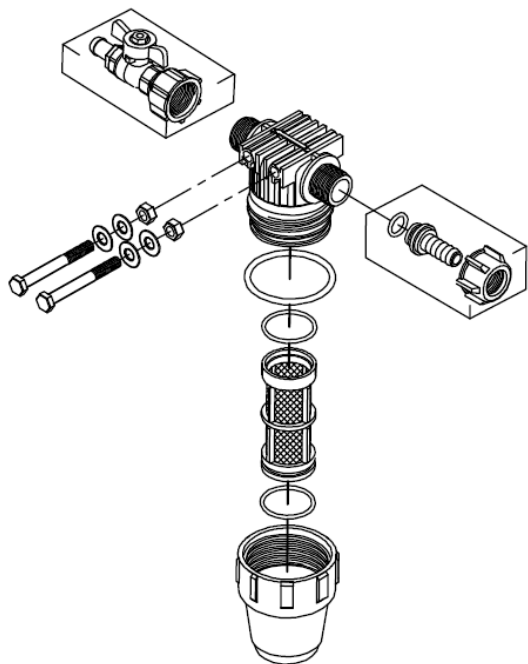


## ▪ Work

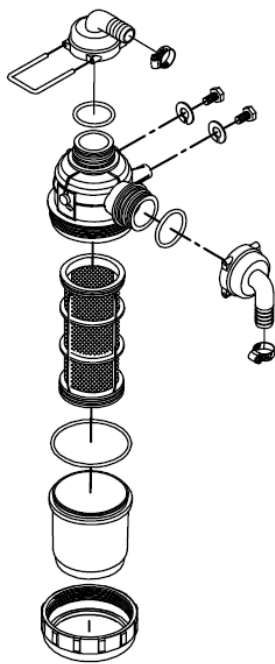
### • Adjustment for cleaning suction and line filters - Part II

- A) Switch off the pump. Keep the mechanical stirrer running.
- B) Clean the Suction and Line filters.
- C) Unscrew the filter cups as shown below.
- D) Then rinse the filter element with water.
- E) Then replace the filter element and the filter cup.
- F) Return the suction valve to its original position.

**LINE FILTER**




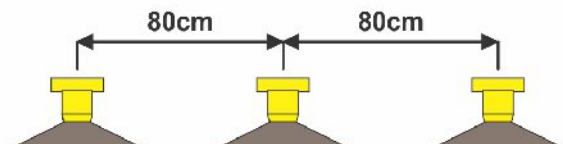
**SUCTION FILTER**



Before starting to clean the suction (1) and line (2) filters, wear PPE (especially gloves). Ignoring this warning could lead to serious illness or even death.

## ■ Tables


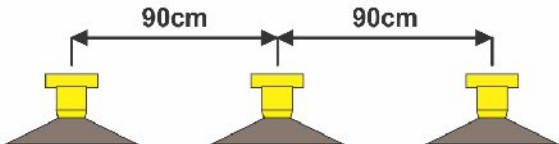
- XP AIR nozzles table - 80 cm row spacing

|  |         |     |     |                | <b>ESPAÇAMENTO ENTRE LINHAS - 80CM</b>  |     |     |     |     |     |     |    |    |    |    |
|--|---------|-----|-----|----------------|--|-----|-----|-----|-----|-----|-----|----|----|----|----|
| <b>FC 600</b> Tabela do Aplicador de Herbicida                                     |         |     |     |                |  |     |     |     |     |     |     |    |    |    |    |
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |     |     |     |     |    |    |    |    |
|  | BAR     | PSI |     |                | 4  | 5   | 6   | 7   | 8   | 10  | 12  | 14 | 16 | 18 | 20 |
| XP AIR<br>015 #100   | 2,1     | 30  | MG  | 0,49           | 92   | 74  | 61  | 53  | 46  | 37  | 31  | 26 | 23 | 20 | 18 |
|  | 3,1     | 45  | G   | 0,60           | 113  | 90  | 75  | 64  | 56  | 45  | 38  | 32 | 28 | 25 | 23 |
|  | 4,1     | 60  | M   | 0,7            | 131  | 105 | 88  | 75  | 66  | 53  | 44  | 38 | 33 | 29 | 26 |
|  | 6,9     | 100 | M   | 0,9            | 169  | 135 | 113 | 96  | 84  | 68  | 56  | 48 | 42 | 38 | 34 |
| XP AIR<br>02 #100  | 2,1     | 30  | MG  | 0,66           | 124  | 99  | 83  | 71  | 62  | 50  | 41  | 35 | 31 | 28 | 25 |
|  | 3,1     | 45  | MG  | 0,8            | 150  | 120 | 100 | 86  | 75  | 60  | 50  | 43 | 38 | 33 | 30 |
|  | 4,1     | 60  | G   | 0,93           | 174  | 140 | 116 | 100 | 87  | 70  | 58  | 50 | 44 | 39 | 35 |
|  | 6,9     | 100 | M   | 1,2            | 225  | 180 | 150 | 129 | 113 | 90  | 75  | 64 | 56 | 50 | 45 |
| XP AIR<br>03 #80   | 2,1     | 30  | EG  | 0,98           | 184  | 147 | 123 | 105 | 92  | 74  | 61  | 53 | 46 | 41 | 37 |
|  | 3,1     | 45  | EG  | 1,2            | 225  | 180 | 150 | 129 | 113 | 90  | 75  | 64 | 56 | 50 | 45 |
|  | 4,1     | 60  | G   | 1,39           | 261  | 209 | 174 | 149 | 130 | 104 | 87  | 74 | 65 | 58 | 52 |
|  | 6,9     | 100 | G   | 1,8            | 338  | 270 | 225 | 193 | 169 | 135 | 113 | 96 | 84 | 75 | 68 |

XP AIR NOZZLES, SEE PAGE 49.

## ■ Tables


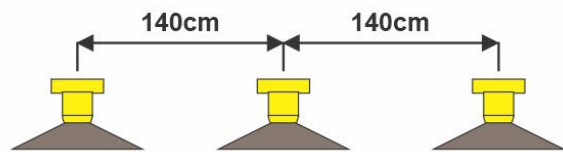
- XP AIR nozzles table - 90 cm row spacing

|  |         |     |     |                | <b>ESPAÇAMENTO ENTRE LINHAS - 90CM</b>  |     |     |     |     |     |     |    |    |    |    |
|--|---------|-----|-----|----------------|--|-----|-----|-----|-----|-----|-----|----|----|----|----|
| <b>FC 600</b> <i>Tabela do Aplicador de Herbicida</i>                              |         |     |     |                |  |     |     |     |     |     |     |    |    |    |    |
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |     |     |     |     |    |    |    |    |
|  | BAR     | PSI |     |                | 4  | 5   | 6   | 7   | 8   | 10  | 12  | 14 | 16 | 18 | 20 |
| XP AIR<br>015 #100   | 2,1     | 30  | MG  | 0,49           | 82   | 65  | 54  | 47  | 41  | 33  | 27  | 23 | 20 | 20 | 16 |
|  | 3,1     | 45  | G   | 0,60           | 100  | 80  | 67  | 57  | 50  | 40  | 33  | 29 | 25 | 25 | 20 |
|  | 4,1     | 60  | M   | 0,7            | 117  | 93  | 78  | 67  | 58  | 47  | 39  | 33 | 29 | 29 | 23 |
|  | 6,9     | 100 | M   | 0,9            | 150  | 120 | 100 | 86  | 75  | 60  | 50  | 43 | 38 | 38 | 30 |
| XP AIR<br>02 #100  | 2,1     | 30  | MG  | 0,66           | 110  | 88  | 73  | 63  | 55  | 44  | 37  | 31 | 28 | 28 | 22 |
|  | 3,1     | 45  | MG  | 0,8            | 133  | 107 | 89  | 76  | 67  | 53  | 44  | 38 | 33 | 33 | 27 |
|  | 4,1     | 60  | G   | 0,93           | 155  | 124 | 103 | 89  | 78  | 62  | 52  | 44 | 39 | 39 | 31 |
|  | 6,9     | 100 | M   | 1,2            | 200  | 160 | 133 | 114 | 100 | 80  | 67  | 57 | 50 | 50 | 40 |
| XP AIR<br>03 #80   | 2,1     | 30  | EG  | 0,98           | 163  | 131 | 109 | 93  | 82  | 65  | 54  | 47 | 41 | 41 | 33 |
|  | 3,1     | 45  | EG  | 1,2            | 200  | 160 | 133 | 114 | 100 | 80  | 67  | 57 | 50 | 50 | 40 |
|  | 4,1     | 60  | G   | 1,39           | 232  | 185 | 154 | 132 | 116 | 93  | 77  | 66 | 58 | 58 | 46 |
|  | 6,9     | 100 | G   | 1,8            | 300  | 240 | 200 | 171 | 150 | 120 | 100 | 86 | 75 | 75 | 60 |

XP AIR NOZZLES, SEE PAGE 49.

## ■ Tables

- XP AIR nozzles table- 2 Nozzles / Row spacing 140 cm

|  |         |     |     |                | 2 BICOS / ESPAÇAMENTO ENTRE LINHAS - 140CM  |     |     |     |     |     |     |     |    |    |    |
|--|---------|-----|-----|----------------|--|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |     |     |     |     |     |    |    |    |
|  | BAR     | PSI |     |                | 4  | 5   | 6   | 7   | 8   | 10  | 12  | 14  | 16 | 18 | 20 |
| XP AIR<br>015 #100   | 2,1     | 30  | MG  | 0,49           | 105  | 84  | 70  | 60  | 53  | 42  | 35  | 30  | 26 | 23 | 21 |
|  | 3,1     | 45  | G   | 0,60           | 129  | 103 | 86  | 73  | 64  | 51  | 43  | 37  | 32 | 29 | 26 |
|  | 4,1     | 60  | M   | 0,7            | 150  | 120 | 100 | 86  | 75  | 60  | 50  | 43  | 38 | 33 | 30 |
|  | 6,9     | 100 | M   | 0,9            | 193  | 154 | 129 | 110 | 96  | 77  | 64  | 55  | 48 | 43 | 39 |
| XP AIR<br>02 #100  | 2,1     | 30  | MG  | 0,66           | 141  | 113 | 94  | 81  | 71  | 57  | 47  | 40  | 35 | 31 | 28 |
|  | 3,1     | 45  | MG  | 0,8            | 171  | 137 | 114 | 98  | 86  | 69  | 57  | 49  | 43 | 38 | 34 |
|  | 4,1     | 60  | G   | 0,93           | 199  | 159 | 133 | 114 | 100 | 80  | 66  | 57  | 50 | 44 | 40 |
|  | 6,9     | 100 | M   | 1,2            | 257  | 206 | 171 | 147 | 129 | 103 | 86  | 73  | 64 | 57 | 51 |
| XP AIR<br>03 #80   | 2,1     | 30  | EG  | 0,98           | 210  | 168 | 140 | 120 | 105 | 84  | 70  | 60  | 53 | 47 | 42 |
|  | 3,1     | 45  | EG  | 1,2            | 257  | 206 | 171 | 147 | 129 | 103 | 86  | 73  | 64 | 57 | 51 |
|  | 4,1     | 60  | G   | 1,39           | 298  | 238 | 199 | 170 | 149 | 119 | 99  | 85  | 74 | 66 | 60 |
|  | 6,9     | 100 | G   | 1,8            | 386  | 309 | 257 | 220 | 193 | 154 | 129 | 110 | 96 | 86 | 77 |


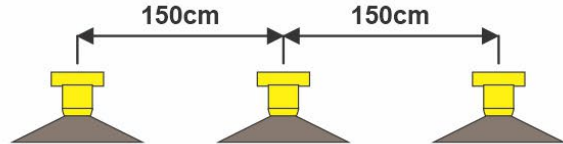
XP AIR NOZZLES, SEE PAGE 49.

Rev. 00 / Cód. 6020079036-0



## ■ Tables

- XP AIR nozzles table - 2 Nozzles/ Row spacing 150 cm

|  |         |     |     |                | 2 BICOS / ESPAÇAMENTO ENTRE LINHAS - 150CM  |     |     |     |     |     |     |     |    |    |    |
|--|---------|-----|-----|----------------|--|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| <b>FC 600</b> <i>Tabela do Aplicador de Herbicida</i>                              |         |     |     |                | Taxa de Aplicação L/ha (km/h)  |     |     |     |     |     |     |     |    |    |    |
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | 4  | 5   | 6   | 7   | 8   | 10  | 12  | 14  | 16 | 18 | 20 |
|  | BAR     | PSI |     |                |  |     |     |     |     |     |     |     |    |    |    |
| XP AIR<br>015 #100   | 2,1     | 30  | MG  | 0,49           | 98   | 78  | 65  | 56  | 49  | 39  | 33  | 28  | 25 | 22 | 20 |
|  | 3,1     | 45  | G   | 0,60           | 120  | 96  | 80  | 69  | 60  | 48  | 40  | 34  | 30 | 27 | 24 |
|  | 4,1     | 60  | M   | 0,7            | 140  | 112 | 93  | 80  | 70  | 56  | 47  | 40  | 35 | 31 | 28 |
|  | 6,9     | 100 | M   | 0,9            | 180  | 144 | 120 | 103 | 90  | 72  | 60  | 51  | 45 | 40 | 36 |
| XP AIR<br>02 #100  | 2,1     | 30  | MG  | 0,66           | 132  | 106 | 88  | 75  | 66  | 53  | 44  | 38  | 33 | 29 | 26 |
|  | 3,1     | 45  | MG  | 0,8            | 160  | 128 | 107 | 91  | 80  | 64  | 53  | 46  | 40 | 36 | 32 |
|  | 4,1     | 60  | G   | 0,93           | 186  | 149 | 124 | 106 | 93  | 74  | 62  | 53  | 47 | 41 | 37 |
|  | 6,9     | 100 | M   | 1,2            | 240  | 192 | 160 | 137 | 120 | 96  | 80  | 69  | 60 | 53 | 48 |
| XP AIR<br>03 #80   | 2,1     | 30  | EG  | 0,98           | 196  | 157 | 131 | 112 | 98  | 78  | 65  | 56  | 49 | 44 | 39 |
|  | 3,1     | 45  | EG  | 1,2            | 240  | 192 | 160 | 137 | 120 | 96  | 80  | 69  | 60 | 53 | 48 |
|  | 4,1     | 60  | G   | 1,39           | 278  | 222 | 185 | 159 | 139 | 111 | 93  | 79  | 70 | 62 | 56 |
|  | 6,9     | 100 | G   | 1,8            | 360  | 288 | 240 | 206 | 180 | 144 | 120 | 103 | 90 | 80 | 72 |


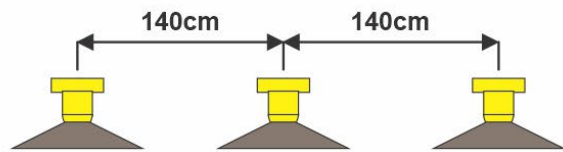
XP AIR NOZZLES, SEE PAGE 49.

Rev. 00 / Cód. 6020079037-8



## ■ Tables

- XP AIR nozzles table - 3 Nozzle / Row spacing 140 cm


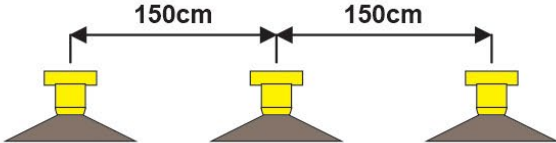
|  |         |     |     |                | 3 BICOS / ESPAÇAMENTO ENTRE LINHAS - 140CM  |     |     |     |     |     |     |     |     |     |     |
|--|---------|-----|-----|----------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |     |     |     |     |     |     |     |     |
|  | BAR     | PSI |     |                | 4  | 5   | 6   | 7   | 8   | 10  | 12  | 14  | 16  | 18  | 20  |
| XP AIR<br>015 #100   | 2,1     | 30  | MG  | 0,49           | 158  | 126 | 105 | 90  | 79  | 63  | 53  | 45  | 39  | 35  | 32  |
|  | 3,1     | 45  | G   | 0,60           | 193  | 154 | 129 | 110 | 96  | 77  | 64  | 55  | 48  | 43  | 39  |
|  | 4,1     | 60  | M   | 0,7            | 225  | 180 | 150 | 129 | 113 | 90  | 75  | 64  | 56  | 50  | 45  |
|  | 6,9     | 100 | M   | 0,9            | 289  | 231 | 193 | 165 | 145 | 116 | 96  | 83  | 72  | 64  | 58  |
| XP AIR<br>02 #100  | 2,1     | 30  | MG  | 0,66           | 212  | 170 | 141 | 121 | 106 | 85  | 71  | 61  | 53  | 47  | 42  |
|  | 3,1     | 45  | MG  | 0,8            | 257  | 206 | 171 | 147 | 129 | 103 | 86  | 73  | 64  | 57  | 51  |
|  | 4,1     | 60  | G   | 0,93           | 299  | 239 | 199 | 171 | 149 | 120 | 100 | 85  | 75  | 66  | 60  |
|  | 6,9     | 100 | M   | 1,2            | 386  | 309 | 257 | 220 | 193 | 154 | 129 | 110 | 96  | 86  | 77  |
| XP AIR<br>03 #80   | 2,1     | 30  | EG  | 0,98           | 315  | 252 | 210 | 180 | 158 | 126 | 105 | 90  | 79  | 70  | 63  |
|  | 3,1     | 45  | EG  | 1,2            | 386  | 309 | 257 | 220 | 193 | 154 | 129 | 110 | 96  | 86  | 77  |
|  | 4,1     | 60  | G   | 1,39           | 447  | 357 | 298 | 255 | 223 | 179 | 149 | 128 | 112 | 99  | 89  |
|  | 6,9     | 100 | G   | 1,8            | 579  | 463 | 386 | 331 | 289 | 231 | 193 | 165 | 145 | 129 | 116 |

XP AIR NOZZLES, SEE PAGE 49.

Rev. 00 / Cód. 6020079038-6

## ■ Tables

- XP AIR nozzle table - 3 nozzles / 150 cm row spacing


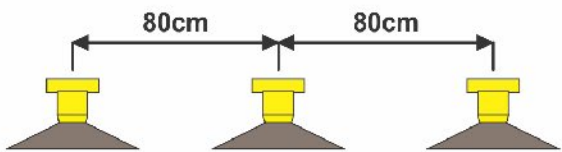
|  |         |     |     |                | 3 BICOS / ESPAÇAMENTO ENTRE LINHAS - 150CM  |     |     |     |     |     |     |     |     |     |     |
|--|---------|-----|-----|----------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>FC 600</b> Tabela do Aplicador de Herbicida                                     |         |     |     |                |  |     |     |     |     |     |     |     |     |     |     |
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |     |     |     |     |     |     |     |     |
|  | BAR     | PSI |     |                | 4  | 5   | 6   | 7   | 8   | 10  | 12  | 14  | 16  | 18  | 20  |
| XP AIR<br>015 #100   | 2,1     | 30  | MG  | 0,49           | 147  | 118 | 98  | 84  | 74  | 59  | 49  | 42  | 37  | 33  | 29  |
|  | 3,1     | 45  | G   | 0,60           | 180  | 144 | 120 | 103 | 90  | 72  | 60  | 51  | 45  | 40  | 36  |
|  | 4,1     | 60  | M   | 0,7            | 210  | 168 | 140 | 120 | 105 | 84  | 70  | 60  | 53  | 47  | 42  |
|  | 6,9     | 100 | M   | 0,9            | 270  | 216 | 180 | 154 | 135 | 108 | 90  | 77  | 68  | 60  | 54  |
| XP AIR<br>02 #100  | 2,1     | 30  | MG  | 0,66           | 198  | 158 | 132 | 113 | 99  | 79  | 66  | 57  | 50  | 44  | 40  |
|  | 3,1     | 45  | MG  | 0,8            | 240  | 192 | 160 | 137 | 120 | 96  | 80  | 69  | 60  | 53  | 48  |
|  | 4,1     | 60  | G   | 0,93           | 279  | 223 | 186 | 159 | 140 | 112 | 93  | 80  | 70  | 62  | 56  |
|  | 6,9     | 100 | M   | 1,2            | 360  | 288 | 240 | 206 | 180 | 144 | 120 | 103 | 90  | 80  | 72  |
| XP AIR<br>03 #80   | 2,1     | 30  | EG  | 0,98           | 294  | 235 | 196 | 168 | 147 | 118 | 98  | 84  | 74  | 65  | 59  |
|  | 3,1     | 45  | EG  | 1,2            | 360  | 288 | 240 | 206 | 180 | 144 | 120 | 103 | 90  | 80  | 72  |
|  | 4,1     | 60  | G   | 1,39           | 417  | 334 | 278 | 238 | 209 | 167 | 139 | 119 | 104 | 93  | 83  |
|  | 6,9     | 100 | G   | 1,8            | 540  | 432 | 360 | 309 | 270 | 216 | 180 | 154 | 135 | 120 | 108 |

XP AIR NOZZLES, SEE PAGE 49.

Rev. 00 / Cód. 6020079039-4

## ■ Tables


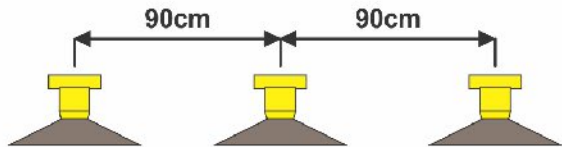
- XP nozzle table - 80 cm row spacing

|  |         |     |     |                | <b>ESPAÇAMENTO ENTRE LINHAS - 80CM</b>  |     |     |     |    |    |    |    |    |    |    |
|--|---------|-----|-----|----------------|--|-----|-----|-----|----|----|----|----|----|----|----|
| <b>FC 600</b> <i>Tabela do Aplicador de Herbicida</i>                              |         |     |     |                | <b>Taxa de Aplicação L/ha (km/h)</b>   |     |     |     |    |    |    |    |    |    |    |
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | 4  | 5   | 6   | 7   | 8  | 10 | 12 | 14 | 16 | 18 | 20 |
|  | BAR     | PSI |     |                |  |     |     |     |    |    |    |    |    |    |    |
| XP 015<br>#100   | 1       | 15  | M   | 0,35           | 66   | 53  | 44  | 38  | 33 | 26 | 22 | 19 | 16 | 15 | 13 |
|  | 1,3     | 20  | M   | 0,40           | 75   | 60  | 50  | 43  | 38 | 30 | 25 | 21 | 19 | 17 | 15 |
|  | 1,7     | 25  | M   | 0,45           | 84   | 68  | 56  | 48  | 42 | 34 | 28 | 24 | 21 | 19 | 17 |
|  | 2,1     | 30  | X   | 0,49           | 92   | 74  | 61  | 53  | 46 | 37 | 31 | 26 | 23 | 20 | 18 |
| XP 02<br>#100  | 1       | 15  | G   | 0,46           | 86   | 69  | 58  | 49  | 43 | 35 | 29 | 25 | 22 | 19 | 17 |
|  | 1,3     | 20  | M   | 0,54           | 101  | 81  | 68  | 58  | 51 | 41 | 34 | 29 | 25 | 23 | 20 |
|  | 1,7     | 25  | M   | 0,6            | 113  | 90  | 75  | 64  | 56 | 45 | 38 | 32 | 28 | 25 | 23 |
|  | 2,1     | 30  | M   | 0,66           | 124  | 99  | 83  | 71  | 62 | 50 | 41 | 35 | 31 | 28 | 25 |
| XP 03<br>#80   | 1       | 15  | G   | 0,7            | 131  | 105 | 88  | 75  | 66 | 53 | 44 | 38 | 33 | 29 | 26 |
|  | 1,3     | 20  | G   | 0,8            | 150  | 120 | 100 | 86  | 75 | 60 | 50 | 43 | 38 | 33 | 30 |
|  | 1,7     | 25  | M   | 0,9            | 169  | 135 | 113 | 96  | 84 | 68 | 56 | 48 | 42 | 38 | 34 |
|  | 2,1     | 30  | M   | 0,98           | 184  | 147 | 123 | 105 | 92 | 74 | 61 | 53 | 46 | 41 | 37 |

XP NOZZLES, SEE PAGE 49.

## ■ Tables

- XP nozzle table - 90 cm row spacing


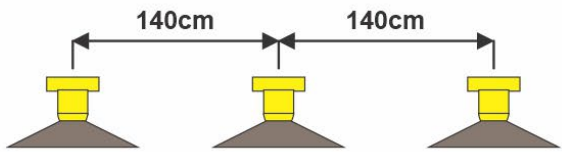
|  |         |     |     |                | <b>ESPAÇAMENTO ENTRE LINHAS - 90CM</b>  |     |     |    |    |    |    |    |    |    |    |
|--|---------|-----|-----|----------------|--|-----|-----|----|----|----|----|----|----|----|----|
| <b>FC 600</b> <i>Tabela do Aplicador de Herbicida</i>                              |         |     |     |                |  |     |     |    |    |    |    |    |    |    |    |
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |    |    |    |    |    |    |    |    |
|  | BAR     | PSI |     |                | 4  | 5   | 6   | 7  | 8  | 10 | 12 | 14 | 16 | 18 | 20 |
| XP 015<br>#100   | 1       | 15  | M   | 0,35           | 58   | 47  | 39  | 33 | 29 | 23 | 19 | 17 | 15 | 13 | 12 |
|  | 1,3     | 20  | M   | 0,40           | 67   | 53  | 44  | 38 | 33 | 27 | 22 | 19 | 17 | 15 | 13 |
|  | 1,7     | 25  | M   | 0,45           | 75   | 60  | 50  | 43 | 38 | 30 | 25 | 21 | 19 | 17 | 15 |
|  | 2,1     | 30  | X   | 0,49           | 82   | 65  | 54  | 47 | 41 | 33 | 27 | 23 | 20 | 18 | 16 |
| XP 02<br>#100  | 1       | 15  | G   | 0,46           | 77   | 61  | 51  | 44 | 38 | 31 | 26 | 22 | 19 | 17 | 15 |
|  | 1,3     | 20  | M   | 0,54           | 90   | 72  | 60  | 51 | 45 | 36 | 30 | 26 | 23 | 20 | 18 |
|  | 1,7     | 25  | M   | 0,6            | 100  | 80  | 67  | 57 | 50 | 40 | 33 | 29 | 25 | 22 | 20 |
|  | 2,1     | 30  | M   | 0,66           | 110  | 88  | 73  | 63 | 55 | 44 | 37 | 31 | 28 | 24 | 22 |
| XP 03<br>#80   | 1       | 15  | G   | 0,7            | 117  | 93  | 78  | 67 | 58 | 47 | 39 | 33 | 29 | 26 | 23 |
|  | 1,3     | 20  | G   | 0,8            | 133  | 107 | 89  | 76 | 67 | 53 | 44 | 38 | 33 | 30 | 27 |
|  | 1,7     | 25  | M   | 0,9            | 150  | 120 | 100 | 86 | 75 | 60 | 50 | 43 | 38 | 33 | 30 |
|  | 2,1     | 30  | M   | 0,98           | 163  | 131 | 109 | 93 | 82 | 65 | 54 | 47 | 41 | 36 | 33 |

XP NOZZLES, SEE PAGE 49.



## ■ Tables

- XP nozzle table - 2 Nozzles / Row spacing 140 cm


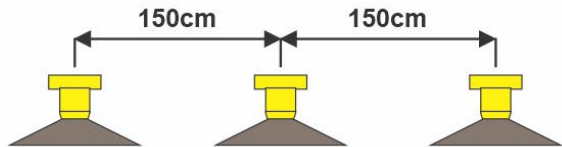
|  |         |     |     |             | 2 BICOS / ESPAÇAMENTO ENTRE LINHAS - 140CM  |     |     |     |     |    |    |    |    |    |    |
|--|---------|-----|-----|-------------|--|-----|-----|-----|-----|----|----|----|----|----|----|
| <b>FC 600</b> Tabela do Aplicador de Herbicida                                     |         |     |     |             |  |     |     |     |     |    |    |    |    |    |    |
| COR BICO   | Pressão |     | DMV | Vazão (LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |     |     |    |    |    |    |    |    |
|  | BAR     | PSI |     |             | 4  | 5   | 6   | 7   | 8   | 10 | 12 | 14 | 16 | 18 | 20 |
| XP 015 #100  | 1       | 15  | M   | 0,35        | 75   | 60  | 50  | 43  | 38  | 30 | 25 | 21 | 19 | 17 | 15 |
|  | 1,3     | 20  | M   | 0,40        | 86   | 69  | 57  | 49  | 43  | 34 | 29 | 24 | 21 | 19 | 17 |
|  | 1,7     | 25  | M   | 0,45        | 96   | 77  | 64  | 55  | 48  | 39 | 32 | 28 | 24 | 21 | 19 |
|  | 2,1     | 30  | X   | 0,49        | 105  | 84  | 70  | 60  | 53  | 42 | 35 | 30 | 26 | 23 | 21 |
| XP 02 #100   | 1       | 15  | G   | 0,46        | 99   | 79  | 66  | 56  | 49  | 39 | 33 | 28 | 25 | 22 | 20 |
|  | 1,3     | 20  | M   | 0,54        | 116  | 93  | 77  | 66  | 58  | 46 | 39 | 33 | 29 | 26 | 23 |
|  | 1,7     | 25  | M   | 0,6         | 129  | 103 | 86  | 73  | 64  | 51 | 43 | 37 | 32 | 29 | 26 |
|  | 2,1     | 30  | M   | 0,66        | 141  | 113 | 94  | 81  | 71  | 57 | 47 | 40 | 35 | 31 | 28 |
| XP 03 #80  | 1       | 15  | G   | 0,7         | 150  | 120 | 100 | 86  | 75  | 60 | 50 | 43 | 38 | 33 | 30 |
|  | 1,3     | 20  | G   | 0,8         | 171  | 137 | 114 | 98  | 86  | 69 | 57 | 49 | 43 | 38 | 34 |
|  | 1,7     | 25  | M   | 0,9         | 193  | 154 | 129 | 110 | 96  | 77 | 64 | 55 | 48 | 43 | 39 |
|  | 2,1     | 30  | M   | 0,98        | 210  | 168 | 140 | 120 | 105 | 84 | 70 | 60 | 53 | 47 | 42 |

XP NOZZLES, SEE PAGE 49.

Rev. 00 / Cód. 6020079032-7

## ■ Tables

- XP nozzle table - 2 nozzle / 150 cm row spacing

|  |         |     |     |             | 2 BICOS / ESPAÇAMENTO ENTRE LINHAS - 150CM  |     |     |     |    |    |    |    |    |    |    |
|--|---------|-----|-----|-------------|--|-----|-----|-----|----|----|----|----|----|----|----|
| <b>FC 600</b> Tabela do Aplicador de Herbicida                                     |         |     |     |             |  |     |     |     |    |    |    |    |    |    |    |
| COR BICO   | Pressão |     | DMV | Vazão (LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |     |    |    |    |    |    |    |    |
|  | BAR     | PSI |     |             | 4  | 5   | 6   | 7   | 8  | 10 | 12 | 14 | 16 | 18 | 20 |
| XP 015 #100  | 1       | 15  | M   | 0,35        | 70   | 56  | 47  | 40  | 35 | 28 | 23 | 20 | 18 | 16 | 14 |
|  | 1,3     | 20  | M   | 0,40        | 80   | 64  | 53  | 46  | 40 | 32 | 27 | 23 | 20 | 18 | 16 |
|  | 1,7     | 25  | M   | 0,45        | 90   | 72  | 60  | 51  | 45 | 36 | 30 | 26 | 23 | 20 | 18 |
|  | 2,1     | 30  | X   | 0,49        | 98   | 78  | 65  | 56  | 49 | 39 | 33 | 28 | 25 | 22 | 20 |
| XP 02 #100   | 1       | 15  | G   | 0,46        | 92   | 74  | 61  | 53  | 46 | 37 | 31 | 26 | 23 | 20 | 18 |
|  | 1,3     | 20  | M   | 0,54        | 108  | 86  | 72  | 62  | 54 | 43 | 36 | 31 | 27 | 24 | 22 |
|  | 1,7     | 25  | M   | 0,6         | 120  | 96  | 80  | 69  | 60 | 48 | 40 | 34 | 30 | 27 | 24 |
|  | 2,1     | 30  | M   | 0,66        | 132  | 106 | 88  | 75  | 66 | 53 | 44 | 38 | 33 | 29 | 26 |
| XP 03 #80  | 1       | 15  | G   | 0,7         | 140  | 112 | 93  | 80  | 70 | 56 | 47 | 40 | 35 | 31 | 28 |
|  | 1,3     | 20  | G   | 0,8         | 160  | 128 | 107 | 91  | 80 | 64 | 53 | 46 | 40 | 36 | 32 |
|  | 1,7     | 25  | M   | 0,9         | 180  | 144 | 120 | 103 | 90 | 72 | 60 | 51 | 45 | 40 | 36 |
|  | 2,1     | 30  | M   | 0,98        | 196  | 157 | 131 | 112 | 98 | 78 | 65 | 56 | 49 | 44 | 39 |


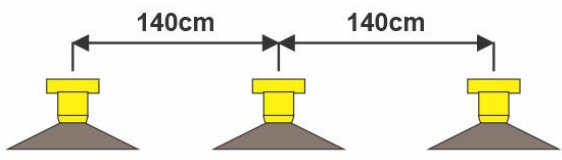
XP NOZZLES, SEE PAGE 49.

Rev. 00 / Cód. 6020079033-5



## ■ Tables

- XP nozzle table - 3 Nozzles / Row spacing 140 cm


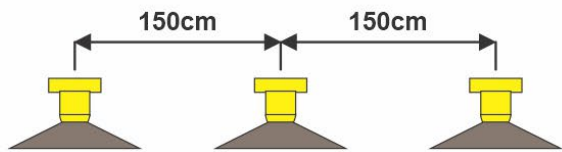
|  |         |     |     |                | 3 BICOS / ESPAÇAMENTO ENTRE LINHAS - 140CM  |     |     |     |     |     |     |    |    |    |    |
|--|---------|-----|-----|----------------|--|-----|-----|-----|-----|-----|-----|----|----|----|----|
| <b>FC 600</b> Tabela do Aplicador de Herbicida                                     |         |     |     |                |  |     |     |     |     |     |     |    |    |    |    |
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |     |     |     |     |    |    |    |    |
|  | BAR     | PSI |     |                | 4  | 5   | 6   | 7   | 8   | 10  | 12  | 14 | 16 | 18 | 20 |
| XP 015<br>#100   | 1       | 15  | M   | 0,35           | 113  | 90  | 75  | 64  | 56  | 45  | 38  | 32 | 28 | 25 | 23 |
|  | 1,3     | 20  | M   | 0,40           | 129  | 103 | 86  | 73  | 64  | 51  | 43  | 37 | 32 | 29 | 26 |
|  | 1,7     | 25  | M   | 0,45           | 145  | 116 | 96  | 83  | 72  | 58  | 48  | 41 | 36 | 32 | 29 |
|  | 2,1     | 30  | X   | 0,49           | 158  | 126 | 105 | 90  | 79  | 63  | 53  | 45 | 39 | 35 | 32 |
| XP 02<br>#100  | 1       | 15  | G   | 0,46           | 148  | 118 | 99  | 84  | 74  | 59  | 49  | 42 | 37 | 33 | 30 |
|  | 1,3     | 20  | M   | 0,54           | 174  | 139 | 116 | 99  | 87  | 69  | 58  | 50 | 43 | 39 | 35 |
|  | 1,7     | 25  | M   | 0,6            | 193  | 154 | 129 | 110 | 96  | 77  | 64  | 55 | 48 | 43 | 39 |
|  | 2,1     | 30  | M   | 0,66           | 212  | 170 | 141 | 121 | 106 | 85  | 71  | 61 | 53 | 47 | 42 |
| XP 03<br>#80   | 1       | 15  | G   | 0,7            | 225  | 180 | 150 | 129 | 113 | 90  | 75  | 64 | 56 | 50 | 45 |
|  | 1,3     | 20  | G   | 0,8            | 257  | 206 | 171 | 147 | 129 | 103 | 86  | 73 | 64 | 57 | 51 |
|  | 1,7     | 25  | M   | 0,9            | 289  | 231 | 193 | 165 | 145 | 116 | 96  | 83 | 72 | 64 | 58 |
|  | 2,1     | 30  | M   | 0,98           | 315  | 252 | 210 | 180 | 158 | 126 | 105 | 90 | 79 | 70 | 63 |

XP NOZZLES, SEE PAGE 49.

Rev. 00 / Cód. 6020079034-3

## ■ Tables

- XP nozzle table - 3 Nozzle / 150 cm row spacing

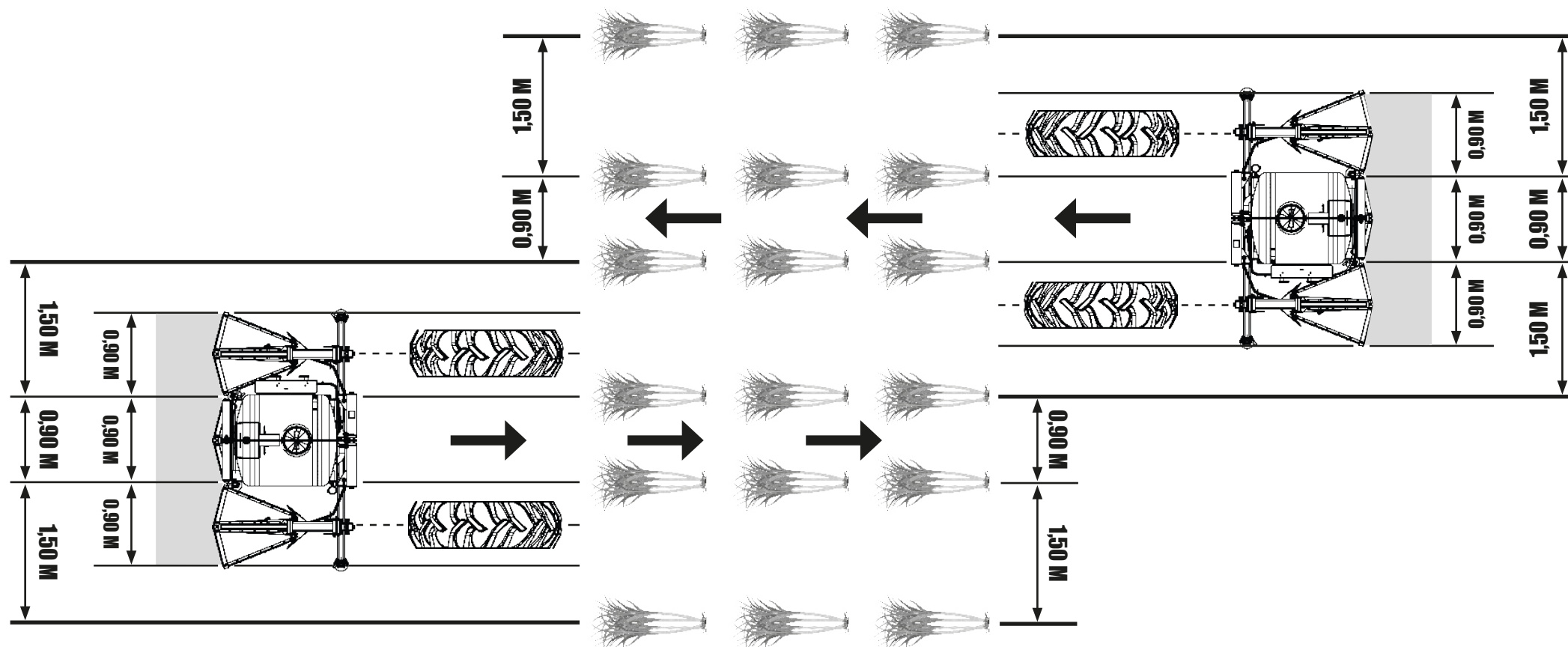
|  |         |     |     |                | 3 BICOS / ESPAÇAMENTO ENTRE LINHAS - 150CM  |     |     |     |     |     |    |    |    |    |    |
|--|---------|-----|-----|----------------|--|-----|-----|-----|-----|-----|----|----|----|----|----|
| <b>FC 600</b> Tabela do Aplicador de Herbicida                                     |         |     |     |                |  |     |     |     |     |     |    |    |    |    |    |
| COR<br>BICO  | Pressão |     | DMV | Vazão<br>(LPM) | Taxa de Aplicação L/ha (km/h)  |     |     |     |     |     |    |    |    |    |    |
|  | BAR     | PSI |     |                | 4  | 5   | 6   | 7   | 8   | 10  | 12 | 14 | 16 | 18 | 20 |
| XP 015<br>#100   | 1       | 15  | M   | 0,35           | 105  | 84  | 70  | 60  | 53  | 42  | 35 | 30 | 26 | 23 | 21 |
|  | 1,3     | 20  | M   | 0,40           | 120  | 96  | 80  | 69  | 60  | 48  | 40 | 34 | 30 | 27 | 24 |
|  | 1,7     | 25  | M   | 0,45           | 135  | 108 | 90  | 77  | 68  | 54  | 45 | 39 | 34 | 30 | 27 |
|  | 2,1     | 30  | X   | 0,49           | 147  | 118 | 98  | 84  | 74  | 59  | 49 | 42 | 37 | 33 | 29 |
| XP 02<br>#100  | 1       | 15  | G   | 0,46           | 138  | 110 | 92  | 79  | 69  | 55  | 46 | 39 | 35 | 31 | 28 |
|  | 1,3     | 20  | M   | 0,54           | 162  | 130 | 108 | 93  | 81  | 65  | 54 | 46 | 41 | 36 | 32 |
|  | 1,7     | 25  | M   | 0,6            | 180  | 144 | 120 | 103 | 90  | 72  | 60 | 51 | 45 | 40 | 36 |
|  | 2,1     | 30  | M   | 0,66           | 198  | 158 | 132 | 113 | 99  | 79  | 66 | 57 | 50 | 44 | 40 |
| XP 03<br>#80   | 1       | 15  | G   | 0,7            | 210  | 168 | 140 | 120 | 105 | 84  | 70 | 60 | 53 | 47 | 42 |
|  | 1,3     | 20  | G   | 0,8            | 240  | 192 | 160 | 137 | 120 | 96  | 80 | 69 | 60 | 53 | 48 |
|  | 1,7     | 25  | M   | 0,9            | 270  | 216 | 180 | 154 | 135 | 108 | 90 | 77 | 68 | 60 | 54 |
|  | 2,1     | 30  | M   | 0,98           | 294  | 235 | 196 | 168 | 147 | 118 | 98 | 84 | 74 | 65 | 59 |

XP NOZZLES, SEE PAGE 49.

Rev. 00 / Cód. 6020079035-1

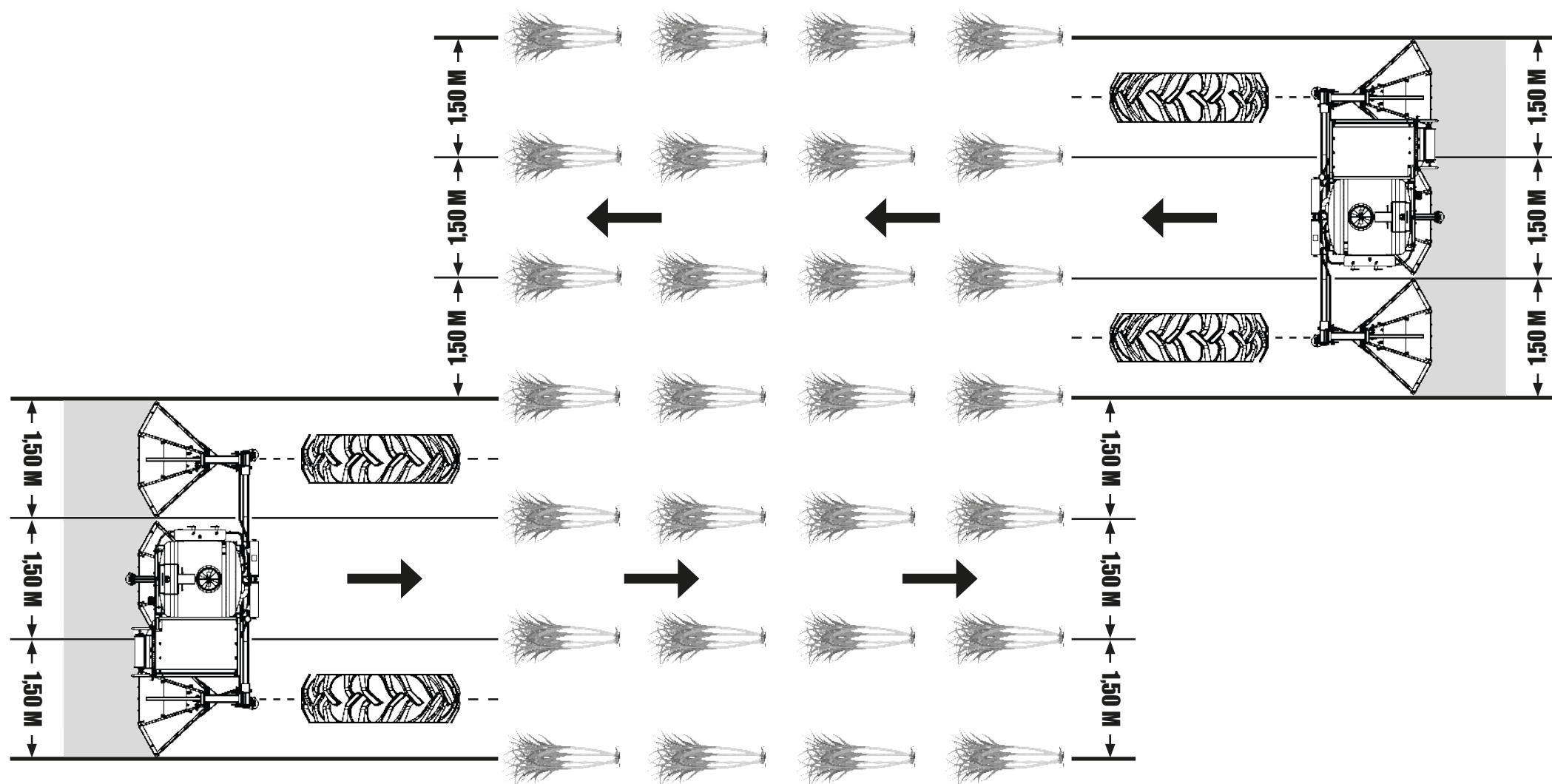
## Operations

### Operations FC 600 Double Alternate Planting



## ■ Operations

- Operations FC 600 Symmetrical Planting (1.4 to 1.5 meter spacing)



## ▪ Operations

### • Recommendations for operation - Part I

Preparing the **FC 600** and the tractor will save you time and give you better results in the field. You may find the following suggestions useful.

#### **GENERAL RECOMMENDATIONS**

- 01** - Adjust the tractor according to the contents of the instruction manual, always using the front and rear weights to stabilize the equipment.
- 02** - Always couple to the tractor at idle speed and with great care.
- 03** - When using the **FC 600** it is important to check the hitch system and transverse leveling so that the trolleys are parallel to the ground.
- 04** - After hooking up and leveling, the next adjustments will be made directly in the field, analyzing the terrain in terms of its texture, humidity and the types of operations to be carried out with the **FC 600**.
- 05** - On the tractor, choose a gear that allows you to maintain a certain reserve of power, guaranteeing yourself against unforeseen stresses.
- 06** - Observe the working and transport speeds specified on page 10. We do not recommend exceeding these speeds in order to maintain the efficiency of the service and avoid possible damage to the **FC 600**.
- 07** - After the first day working with the **FC 600**, retighten all the bolts and nuts, check the condition of the pins and locks. Then perform a general retightening of all bolts and nuts every 10 hours of work.
- 08** - When carrying out any maintenance on the **FC 600**, lower it to the ground and switch off the engine.
- 09** - The **FC 600** has several settings, but only local conditions can determine the best setting.

If in doubt, never operate or handle the FC 600, consult After Sales.  
Phone: 0800-152577 / E-mail: posvenda@baldan.com.br

## ▪ Operations

### • Recommendations for operation - Part II

#### **FREQUENTLY ASKED QUESTIONS AND TROUBLESHOOTING**

##### **A) What is the minimum application rate?**

**R:** We recommend applications starting at 25 L/ha for low-density liquid products, 40 L/ha for medium-density products and over 60 L/ha for high-density products.

##### **B) What is the maximum number of lines that can be used?**

**R:** The quantity depends on the flow rate of the pump. We recommend using up to 70% of the pump's maximum flow rate.

##### **C) Can I mix products?**

**R:** Yes, but always check that the products are compatible.

##### **D) The pump and/or agitator won't start, what should I do?**

**R:** Check that the terminals are connected, following the cables from the battery to the pump and/or agitator. Check the fuse inside the panel.

##### **E) I often have problems with clogged nozzles, what should I do?**

**R:** We recommend the use of high quality, highly soluble products, as well as frequent cleaning of filters and nozzles. "the nozzle doesn't clog - what clogs it is what goes inside it".

##### **F) Pressure instability and oscillation in the manometer, what to do?**

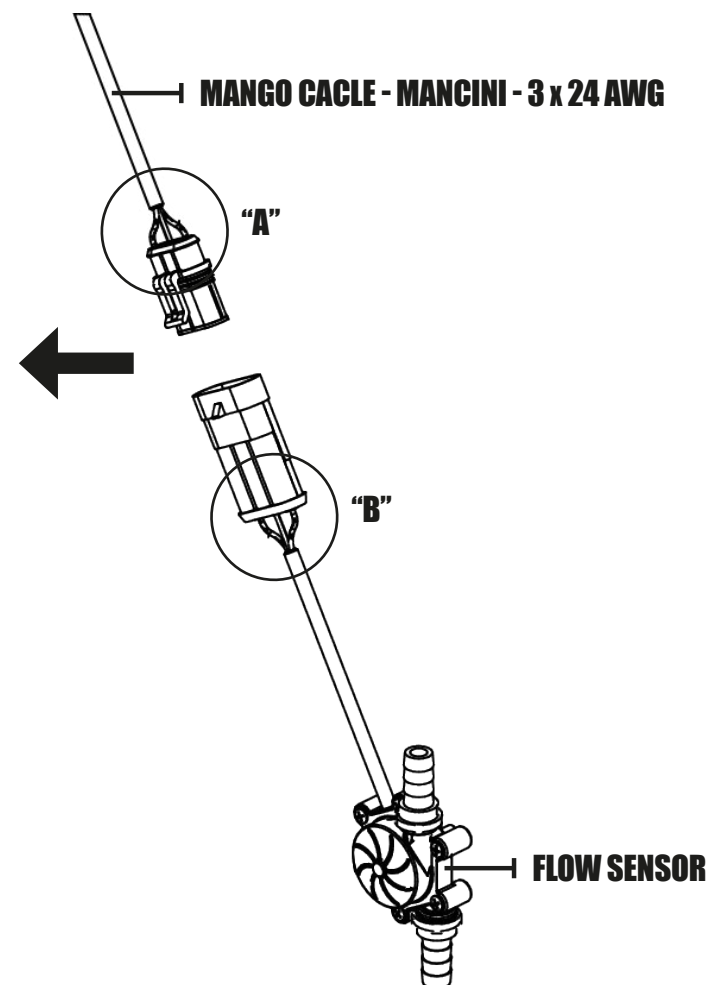
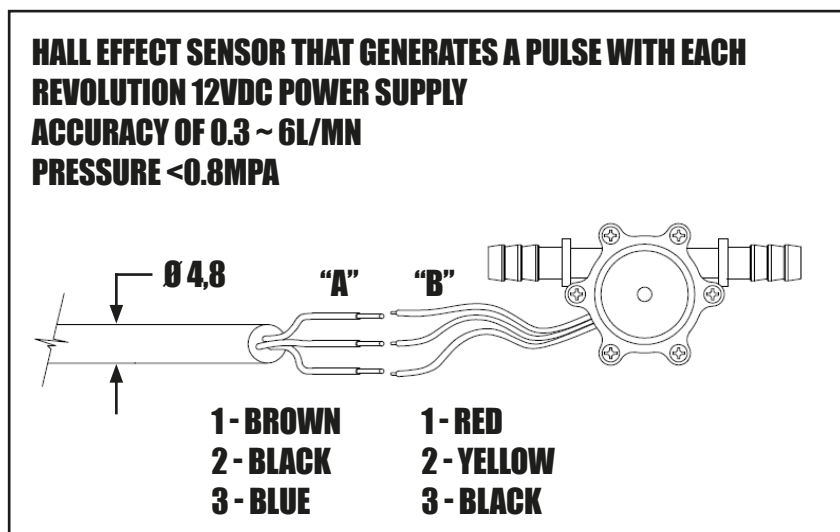
**R:** Check for air in the system - wait for air to escape through the nozzles. Check for air ingress through any hoses on the suction side of the pump.



## ▪ Maintenance

### • Flow sensor maintenance


When maintaining the flow sensor (1), pay attention to the color combinations below for assembling the male and female connectors.



## ■ Maintenance


### • Identification of cables and connectors

**1 DISPLAY DE MONITORAMENTO NA CABINE**



Monitoramento de Vazão

**PAG 9**




**A** **B** **C**

**19-WAY CONNECTOR FEMALE CABLE**


**2 CONNECTION CABLES BETWEEN CAB AND IMPLEMENT**

**A**




**19-WAY CONNECTOR MALE CABLE**

**B**



**19-WAY CONNECTOR MALE CABLE**


**C**



**19-WAY CONNECTOR MALE CABLE**


**3 PASS-THROUGH BOX ON THE IMPLEMENT**

**A**




**19-WAY CONNECTOR - FEMALE PANEL**

**B**



**19-WAY CONNECTOR - FEMALE PANEL**

**C**




**CONECTOR 19 VIAS - PAINEL FÊMEA**

**16x PG 7 PP CABLE 3x0,5MM SUPERSEAL 3-WAY FEMALE**


**4 CONNECTION CABLE WITH FLOW SENSOR**

**16 UNITS PER BOX PASS-THROUGH**

**3-WAY MALE SUPERSEAL PP CABLE 3x0,5MM SUPERSEAL 3-WAY FEMALE**



**5 FLOW SENSOR WITH SUPERSEAL CONNECTOR 3-WAY MALE**



**NOT PROVIDED**

## ■ Maintenance

### • Maintenance Operational

| PROBLEMS  | CAUSES PROBABLE   | SOLUTIONS  |
|---|---|--|
| Tractor stalls when lifting herbicide applicator applicator.        | The front of the tractor lacks ballast.                                   | Ballast the front of the tractor.  |
| The herbicide applicator comes off the side when working on slopes. | Lower arms of the tractor hitch are loose with lateral displacement.      | Secure the lower arms of the tractor hitch in such a way as to eliminate lateral displacement.             |
| It can't spray.   | Lack of syrup in the tank.  | Pour syrup into the tank.  |
|   | Flow regulator valve closed.  | Adjust the flow regulator valve according to the tables on pages 65 to 76.                                 |
|   | Clogged hoses, filters and nozzles.                                       | Dismantle and clean.   |
| Lack of pressure in the spray system.                               | Breakage of the electric pump diaphragm.                                  | Check the electric pump.   |
|   | Problem with the electric pump valves.                                    | Check the internal parts of the valve.   |
| Luz vermelha no painel de monitoramento de vazão.                   | Obstruction of the spray line (hoses, filters, nozzles and flow sensors). | Check and clean the hoses, filters, nozzles and flow sensors.  |
| Irregular flow.   | Object obstructing the hose, curved or bent hose or kinked hose.          | Check the outlet hoses of the electric pump and the electronic flow monitoring system.                     |
|   | Problems with leaks.  | Check the spray circuit for leaks and apply silicone according to the instructions on pages 34, 35 and 36. |
|   | Problems with the pump.   | Check for any objects obstructing the passage of liquid to the pump.                                       |

## ▪ Maintenance

### • Care

- 01** - Before each job, check the condition of all hoses, pins, and screws. When necessary, retighten them.
- 02** - Travel speed must be carefully controlled according to the terrain conditions.
- 03** - The FC 600 is used in various applications, demanding knowledge and attention when handling it.
- 04** - Only local conditions can determine the best way to operate the **FC 600**.
- 05** - When assembling or disassembling any part of the **FC 600**, use the appropriate methods and tools.
- 06** - Always check parts for wear. If replacement is required, **always demand original Baldan parts**.

### **IMPORTANT**

Proper and regular maintenance is necessary to ensure the long life of the FC 600.

### • General cleaning

- 01** - When storing the **FC 600**, carry out a general clean and rinse it thoroughly with water only. Check that the paint hasn't worn off, if it has, give it a general coat, apply the protective oil and fully lubricate the **FC 600**. Do not use burnt oil or any other type of abrasive.
- 02** - Before storing **FC 600**, drain the tank. Never store the **FC 600** with the tank filled with products or water.
- 03** - When draining the tank, check the disposal instructions on the packaging of each product used.
- 04** - Check all the moving parts of the **FC 600**, if they show wear or looseness, make the necessary adjustment or replace the parts, leaving the herbicide applicator ready for the next job.
- 05** - After all maintenance work has been carried out, store the herbicide applicator in a covered and dry place, properly supported.
- 06** - Replace all stickers, especially warning stickers that are damaged or missing. Make everyone aware of their importance and about the risks of accidents when instructions are not followed.
- 07** - After all maintenance care, store your **FC 600** on a flat surface, in a covered and dry place, away from animals and children.
- 08** - We recommend rinsing the **FC 600** with water only when starting work.



### **ATTENTION**

Do not use chemical or abrasive products to wash the FC 600, as this could damage the paintwork and adhesives.

## ■ Maintenance

### • Tank washing 600 liters

After each use of the **FC 600**, clean the 600-liter tank (1) for better conservation and durability. Depending on the product to be used, we recommend that this cleaning is also carried out at every refueling. To clean the 600-liter tank (1), proceed as follows:

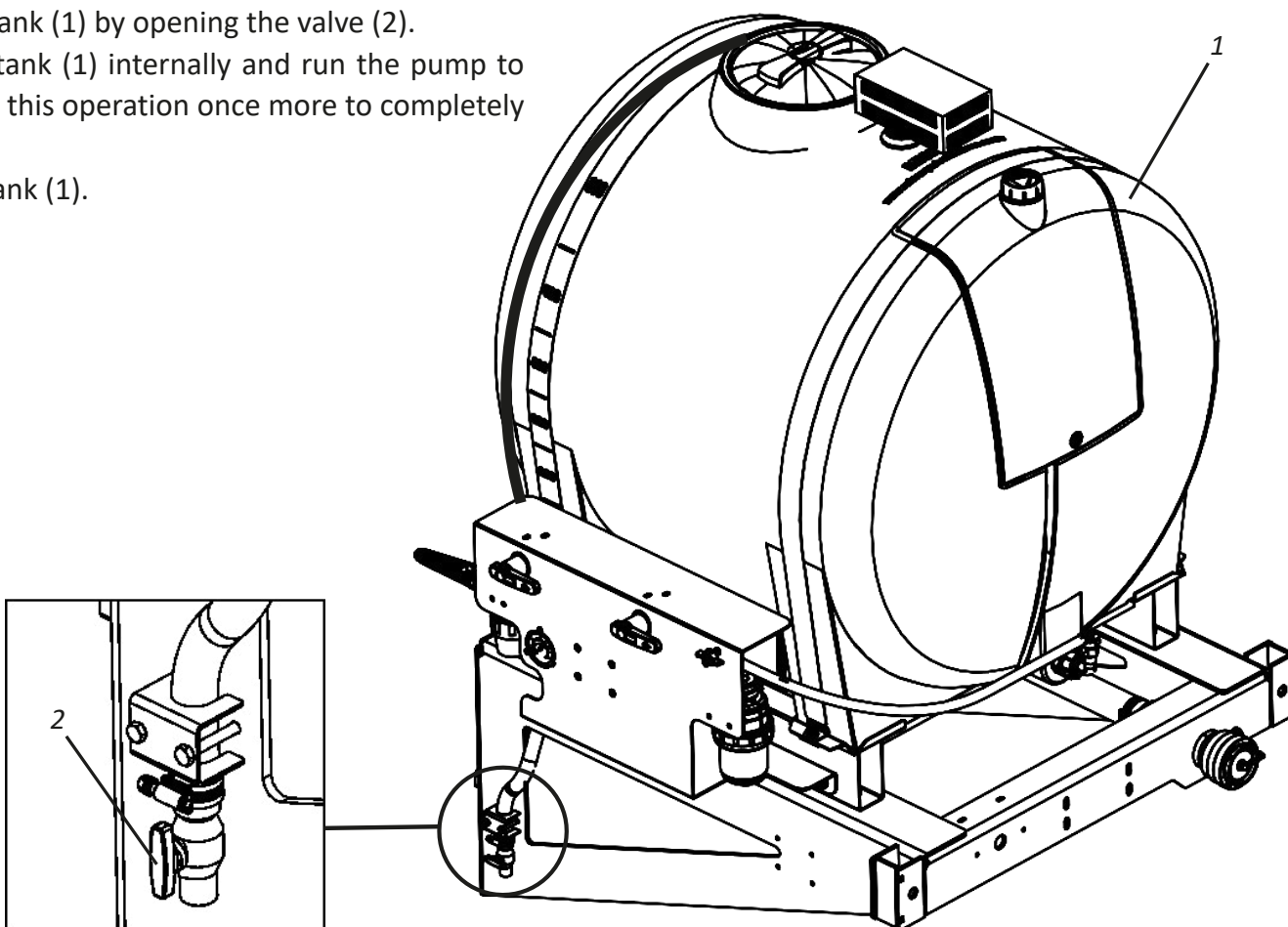
- 01** - Completely empty the product used in the 600 liter tank (1) by opening the valve (2).
- 02** - Then, using a clean water hose, rinse the 600-liter tank (1) internally and run the pump to clean the pump, hoses and nozzles internally. Repeat this operation once more to completely eliminate the residue of the product used.
- 03** - Then completely drain the water from the 600 liter tank (1).

### **ATTENTION**

When emptying the 600-liter tank (1), do not pour the chemical into rivers, lakes or soil. Dispose of the product in accordance with the instructions on the packaging. If you don't have any information, contact your local authority. Improper waste disposal affects the environment and ecology.

### **IMPORTANT**

Proper care will keep your FC 600 always ready for use, with greater durability and a better return on your investment.



## ▪ Maintenance

### • Fast Clean conservation - Part I

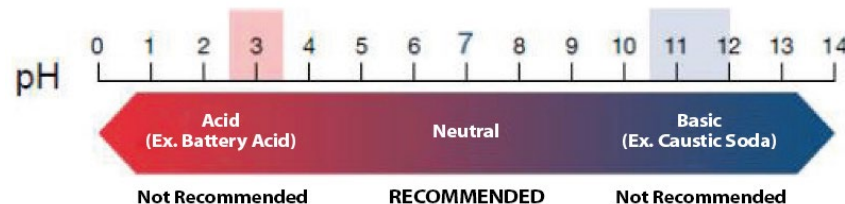
To make the service life and appearance of the **FC 600** last longer, follow the instructions below:

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

### • Fast Clean conservation - Part II

The following practices and precautions, if adopted by the owner or operator, make a difference to the conservation of the **FC 600**.

- 01** - Take care when pressure washing; do not direct the water jet directly at connectors and electrical components. Isolate all electrical components;
- 02** - Use only NEUTRAL water and 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 time of application and washing;
- 04** - Stains and dirt that cannot be removed with the products should be removed with a sponge.
- 05** - Rinse the machine with clean water to remove all chemical residues.
- 06** - Do not use:
  - Detergents with a basic active ingredient (pH greater than 7), may damage/stain the Fast Clean paintwork.
  - Detergents with an acidic active ingredient (pH less than 7) act as a paint stripper (the protection of parts against oxidation).



- 07** - Let the machine dry in the shade, so that no water accumulates on its components. Drying too quickly can cause stains on your paintwork.



## ▪ Maintenance

### • Fast Clean conservation - Part III

- 08 - After drying, lubricate all chains and grease fittings according to the recommendations in the operator's manual.
- 09 - Spray the entire machine, especially galvanized parts, with protective oil, following the manufacturer's application guidelines. The protectant also prevents dirt from sticking to the machine, making it easier to wash later.
- 10 - Observe the curing time (absorption) and application intervals as recommended by the manufacturer.

#### **ATTENTION**

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

#### **IMPORTANT**







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

#### **NOTE**

Failure to comply with the above maintenance measures may result in the loss of warranty on painted or galvanized components that may show oxidation (rust).

## ▪ Lifting

### • Lifting warnings - Part I

-  Carefully read all the information on pages 87 to 89 before starting the FC 600 lifting procedure according to the instructions on pages 90 to 93.
-  Before starting to lift the FC 600, look for a safe and easily accessible place that is clean and free of oil, grease and that is not wet, as there is a danger of accidents.
-  To avoid serious injury or death when lifting the FC 600, use PPE (Personal Protective Equipment).
-  Do not drag hooks, chains or slings as they can cause damage which should be avoided.
-  When lifting the FC 600, make sure it doesn't get tangled up somewhere. Do not subject the equipment to unnecessary strain.
-  Never attach the load to the end of the hook. Use large eyebolts or fix with a suitable shackle.

## ▪ Lifting

### • Lifting warnings - Part II

- ⚠ Never try to force a large ring onto a smaller hook, use a hook with a suitable opening.
- ⚠ Raise the FC 600 a few centimeters off the ground and check that the attachment is secure and that the angles and tensions in the sling legs are correct before starting to move it.
- ⚠ Move the FC 600 with due care. Lower it gently to avoid jolts or bumps.
- ⚠ If necessary, only move the hook with your fingertips; never put your hand inside it, as your fingers could be pinched by the load.
- ⚠ For fixings with suspension lugs, make sure that the lugs are positioned correctly. The tips of the hook should be positioned to the outside of the load.
- ⚠ Before lifting the FC 600, make sure that its weight is evenly distributed.
- ⚠ Never lift the FC 600 using a strap that is used to tie down the load. These materials are only designed to tie down loads and cannot support their weight. For lifting, only use GRAU 8 or 10 chains with a load capacity compatible with the weight of the FC 600 to be lifted.
- ⚠ Accessories must have the same load capacity as the chain; Do not repair broken chains with wires, screws or welding. Replace any chain that shows signs of damage.
- ⚠ When lifting with multiple slings on a single hook, the lifting angle must not exceed 90°. The hook can be damaged and there is a risk of the hook lock opening.
- ⚠ Do not twist the attachment of a chain link with a hook, always use a load ring.
- ⚠ Never move the FC 600 with the chain twisted.
- ⚠ Make sure that the person responsible has been instructed on how to lift the FC 600 correctly. Read or explain all the procedures to someone who cannot read.
- ⚠ Baldan cannot be held responsible for any damage caused by unforeseeable situations or situations outside the normal lifting of the FC 600.
- ⚠ Incorrect lifting of the FC 600 can result in serious or fatal accidents and damage to the FC 600.
- ⚠ Alcoholic beverages or certain medications can cause loss of reflexes and alter the physical condition of the person in charge and the people involved in lifting the FC 600, so never lift the FC 600 while under the influence these substances.

## ▪ Lifting

### • Inspection of locking hooks, chains and slings

- 01** - An in-depth periodic examination must be carried out at least every 12 months or more frequently according to the standards and type of use of the hooks, chains and slings.
- 02** - Regular inspection includes both operational checks and periodic maintenance.
- 03** - Inspections of hooks, chains and slings must be carried out by people with knowledge of the design, use and maintenance of these materials.
- 04** - Before inspecting a chain, it should be thoroughly cleaned, removing dirt and oil. All cleaning methods that do not attack the chain's base material are acceptable.
- 05** - Chains and slings that have been overloaded must be discarded. Permanent stretching is not permitted.
- 06** - Chains with cracks or cavities should be discarded.
- 07** - When a twisted chain is overloaded, it develops permanent deformations. In this case, the chain in question must be replaced immediately.
- 08** - If the chain contains deformed links or deep corrosion, it must be replaced immediately.
- 09** - Damaged or worn hooks, chains and slings must be reported to your superior, who must then arrange for them to be taken out of use for repair or replacement.
- 10** - Hooks, chains and slings that remain unused for a period of time must be inspected before being used again.

### • Storage

- 01** - Adequate storage should be provided, preferably at room temperature. Good storage preserves hooks, chains and slings and makes them easier to find.
- 02** - Hooks, chains and slings stored for a long time must be protected against corrosion.
- 03** - Hooks, chains and slings that remain unused for a period of time must be inspected before being used again.

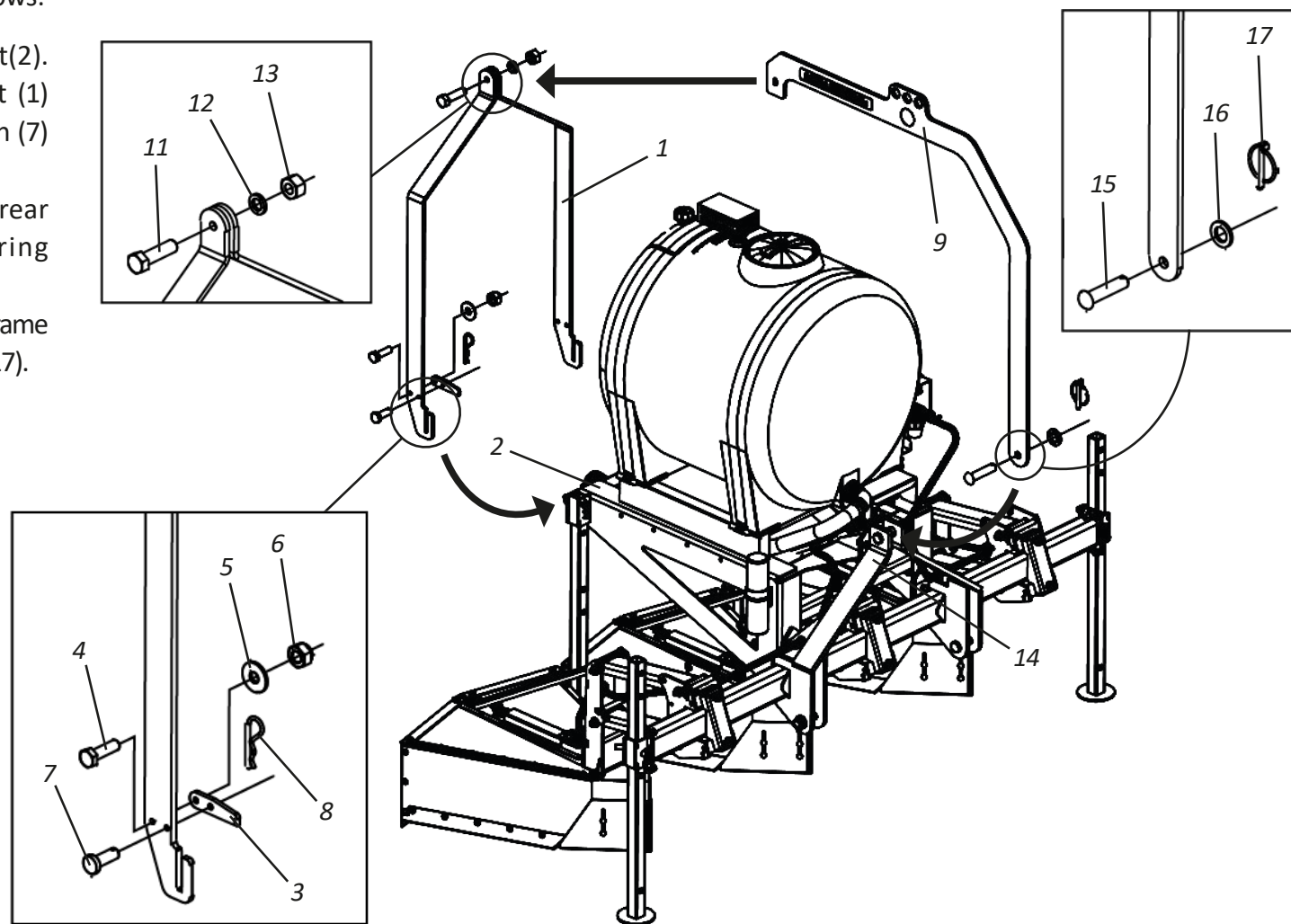
If you have any doubts about the inspection and storage of hooks, chains and slings, consult the manufacturer's manual.

## ▪ Lifting

### • Assembly of the FC 600 Alternating Double Planter Lifting system

To assemble the lifting system, proceed as follows:

- 01** - Attach the rear bracket (1) to the tank bracket(2).
- 02** - Then attach the plate (3) to the rear bracket (1) using the screw (4), flat washer (5), nut (6), pin (7) and lock (8).
- 03** - Then attach the front bracket (9) to the rear bracket (1) using the screw (11), spring washer(12) and nut (13).
- 04** - Finish by attaching the front bracket (9) to the frame (14) using the pin (15), flat washer (16) and lock (17).



### NOTE

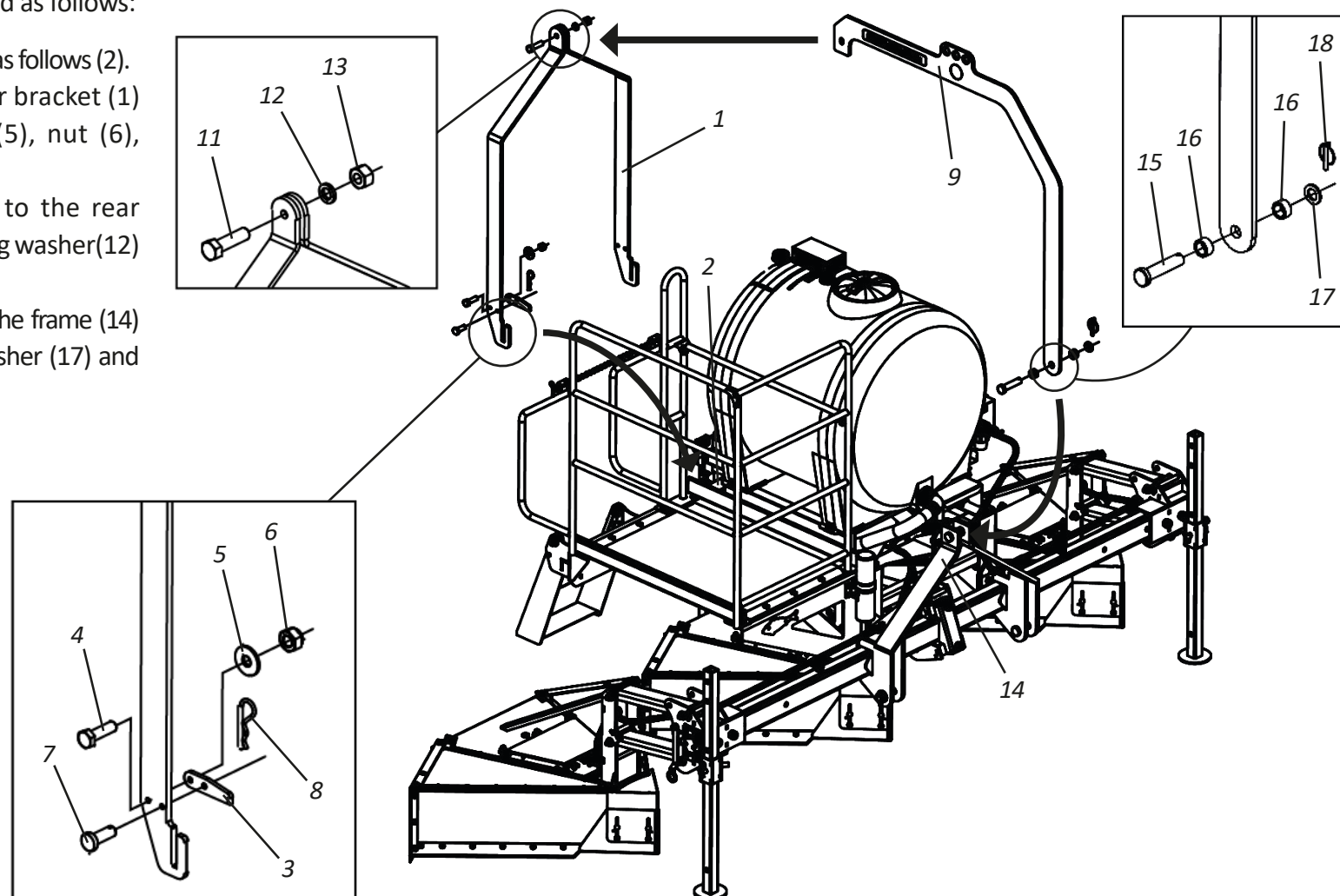
When you have finished lifting the FC 600, dismantle the lifting system.

## ▪ Lifting

### • Assembly of the lifting system for the FC 600 Symmetrical (1.4 to 1.5 meter spacing)

To assemble the lifting system, proceed as follows:

- 01** - To assemble the lifting system, proceed as follows (2).
- 02** - Then attach the plate (3) to the rear bracket (1) using the screw (4), flat washer (5), nut (6), pin (7) and lock (8).
- 03** - Then attach the front bracket (9) to the rear bracket (1) using the screw (11), spring washer (12) and nut (13).
- 04** - Finish by fixing the front support (9) to the frame (14) using the pin (15), bushes (16), flat washer (17) and lock (18).



## NOTE

When you have finished lifting the FC 600, dismantle the lifting system.

## ▪ Lifting

### • Lifting the FC 600 Double Alternating Planter

The **FC 600** has 3 lifting points located on the lifting bracket (1) identified by the sticker (2) attached below these points. When loading, unloading or servicing the FC 600, if lifting is required, it is essential to use the lifting bracket (1) to prevent damage to the FC 600, serious accidents or even death.

#### **ATTENTION**



Before starting to lift the FC 600, check its **WEIGHT** so that you can use the right hook, chain and sling. When attaching the hook, make sure that the weight of the FC 600 is evenly distributed.

**DO NOT** lift the FC 600 without first assembling the lifting system (1). To assemble the lifting system (1), follow the instructions on page 90.

#### **IMPORTANT**

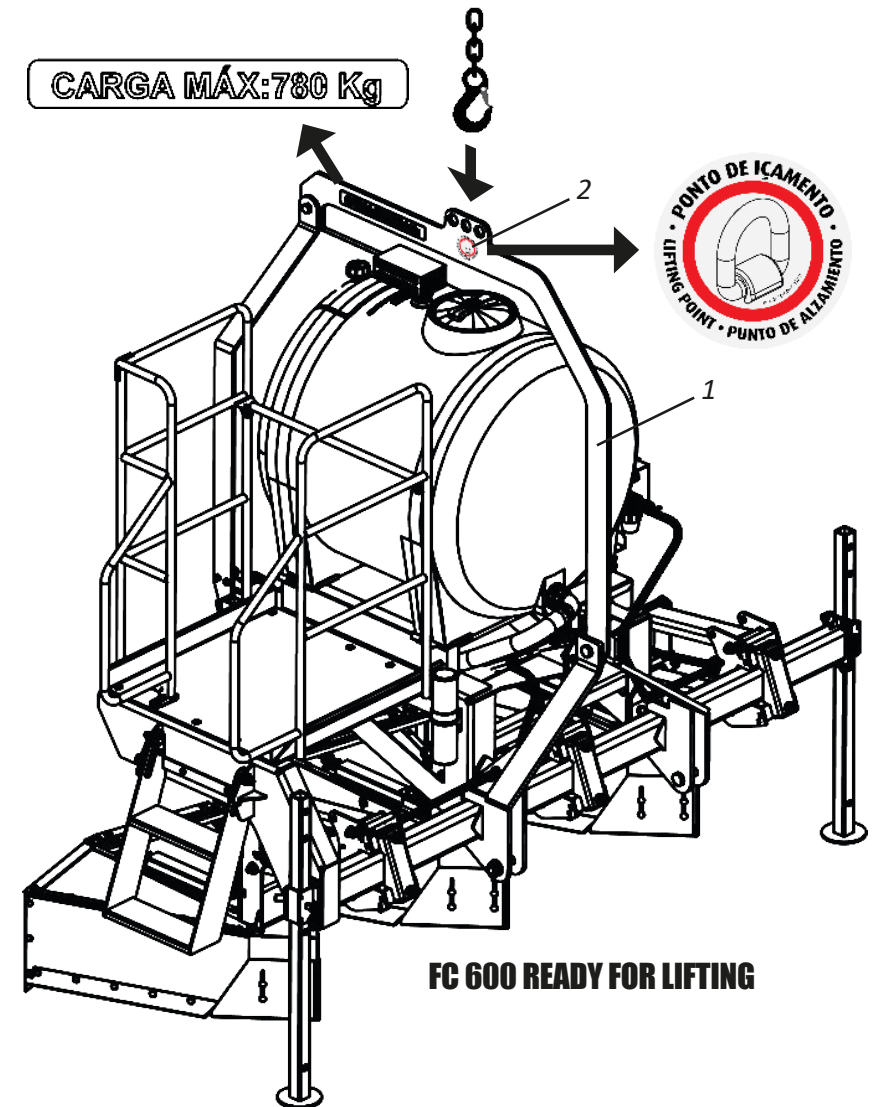


Use standardized hooks and chains, i.e. those that meet safety standards. The hooks and chains used to lift the FC 600 must be **GRADE 8 or 10** with a load capacity compatible with the weight of the FC 600 to be lifted.

#### **NOTE**



Before you start lifting the FC 600, make sure that there are no people near, on or under the FC 600. **NEVER** stand on or under the suspended FC 600. Ignoring these warnings could lead to serious accidents or death.





## ▪ Lifting

### • Lifting the FC 600 Symmetrical Planting (1.4 to 1.5 meter spacing)

The **FC 600** has 3 lifting points located on the lifting bracket (1) identified by the sticker (2) attached below these points. When loading, unloading or servicing the **FC 600**, if lifting is required, it is essential to use the lifting bracket (1) to prevent damage to the **FC 600**, serious accidents or even death.

### **ATTENTION**



Before starting to lift the **FC 600**, check its **WEIGHT** so that you can use the right hook, chain and sling. When attaching the hook, make sure that the weight of the **FC 600** is evenly distributed.  
**DO NOT** lift the **FC 600** without first assembling the lifting system (1). To assemble the lifting system (1), follow the instructions on page 91.

### **IMPORTANT**

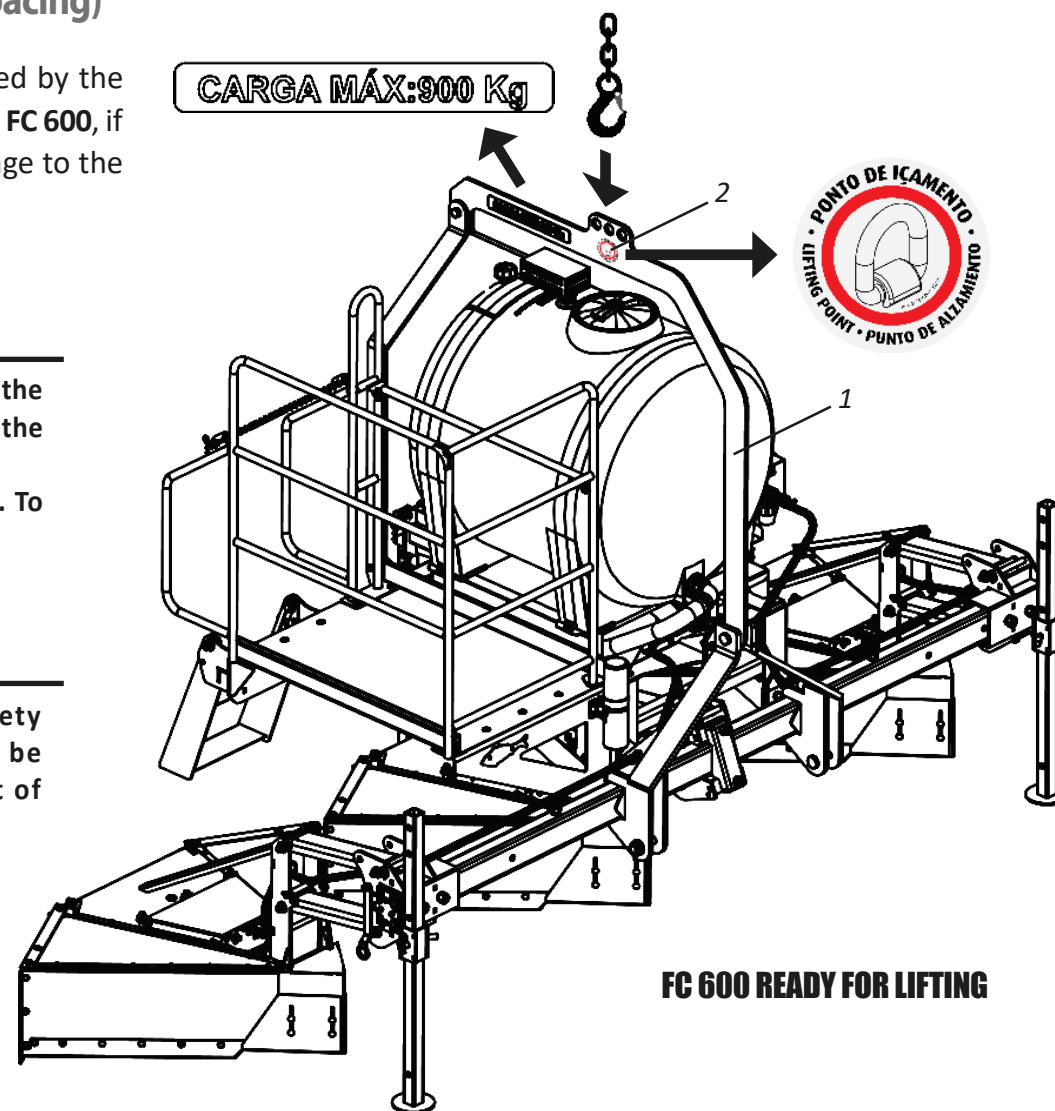


Use standardized hooks and chains, i.e. those that meet safety standards. The hooks and chains used to lift the **FC 600** must be **GRADE 8** or **10** with a load capacity compatible with the weight of the **FC 600** to be lifted.

### **NOTE**



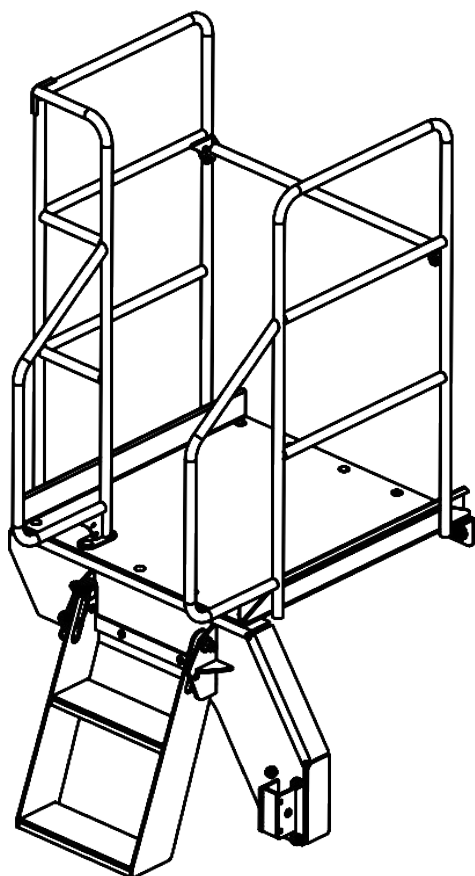
Before you start lifting the **FC 600**, make sure that there are no people near, on or under the **FC 600**. **NEVER** stand on or under the suspended **FC 600**. Ignoring these warnings could lead to serious accidents or death.



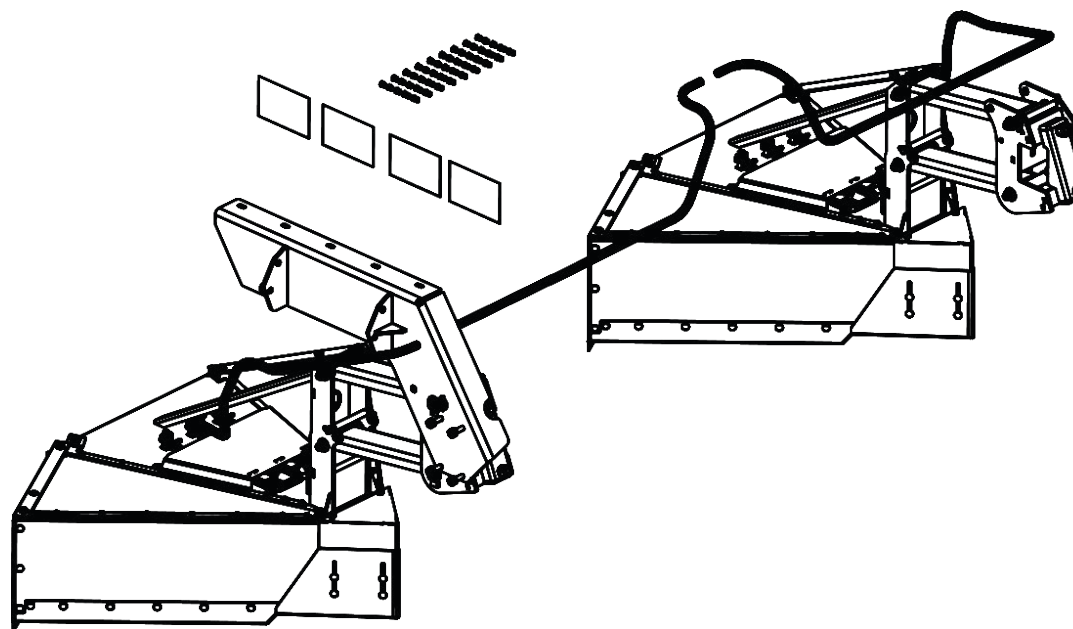
## ▪ Optional

### • Optional accessory

The **FC 600** has optional extras that can be purchased according to work requirements.



**COMPLETE RIGHT-HAND PLATFORM FOR  
FC 600 DOUBLE ALTERNATING PLANTING**

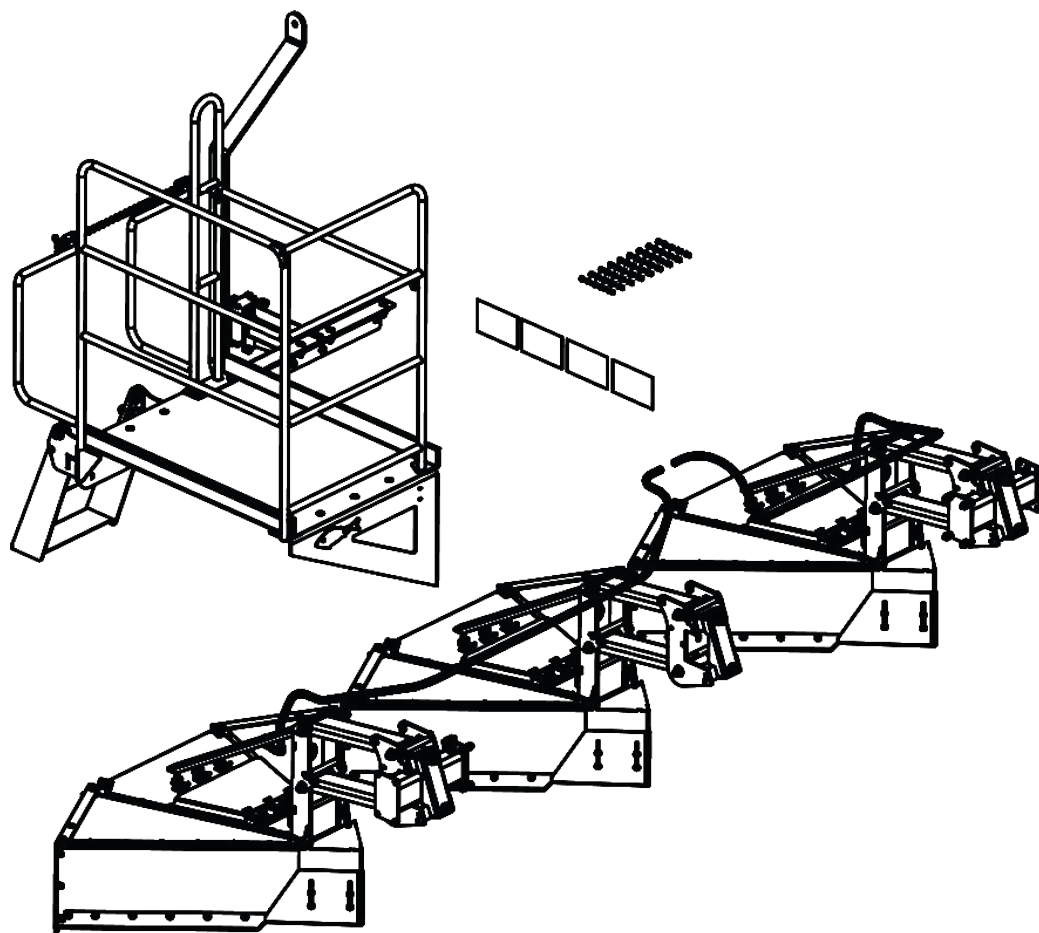


**ACCESSORY KIT FOR ADAPTING ALTERNATE DOUBLE PLANTING SPACING**

## ▪ Optional

### • Optinal accesory

The **FC 600** has optional extras that can be purchased according to work requirements.



**ACCESSORY KIT FOR ADAPTING SYMMETRICAL PLANTING SPACING OF 1.4 TO 1.5 METERS**

## ■ Identification

### • Nameplate

Para consultar o catálogo de peças ou solicitar assistência técnica da Baldan, indique sempre o modelo (01), número de série (02) e data de fabricação (03), que se encontra na plaqueta de identificação do seu **FC 600**.



### **ATTENTION**

The drawings contained in this instruction manual are for illustrative purposes only. In order to provide a better overview and detailed instructions, some drawings in this manual have removed parts and safety devices (covers, guards, etc.). Never operate the FC 600 without these devices.

### **CONTACT**

If in doubt, never operate or handle your equipment without consulting After Sales.

Phone: 0800-152577

e-mail: posvenda@baldan.com.br

### **PUBLICATIONS**

Code: 60550108847 | CPT: FC15619A

### • Product identification

Identify the data below correctly so that you always have information about Zexel the life of your equipment.

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

Resale: \_\_\_\_\_

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

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

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

Warranty certificate no: \_\_\_\_\_

Implement: \_\_\_\_\_

Serial no.: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

Invoice: \_\_\_\_\_



**■ Notes:**

## ▪ Baldan Warranty

**BALDAN IMPLEMENTOS AGRÍCOLAS S/A** guarantees the normal operation of the implement to the dealer for a period of 6 (six) months from the date of delivery on the resale invoice to the first end consumer. During this period, **BALDAN** undertakes to repair defects in material and/or manufacturing under its responsibility, with labor, freight and other expenses being the responsibility of the reseller.

During the warranty period, any defective parts must be requested and replaced by the local dealer, who will send the defective part to **BALDAN** for analysis.

When such procedure is not possible and the reseller's ability to resolve the issue has been exhausted, the reseller will request support from **BALDAN** Technical Assistance, using the specific form distributed to dealers. After analysis of the replaced items by Baldan's Technical Assistance, and concluding that this is not a warranty, the dealer will be responsible for the costs related to the replacement; as well as the costs of materials, travel, including accommodation and meals, accessories, lubricant used and other expenses arising from the call to the Technical Assistance, and Baldan is authorized to carry out the respective billing on behalf of the dealer. **BALDAN** will only authorize any repairs made to a product within the dealer's warranty period upon presentation of a quotation describing the parts and labor to be carried out.

The product that undergoes repairs or modifications by official dealers who do not belong to the **BALDAN** dealer network, as well as the application of non-genuine parts or components to the user's product, is excluded from this term. This warranty shall become null and void when it is established that the defect or damage is the result of improper use of the product, failure to follow the instructions or the inexperience of the operator.

It is agreed that this warranty does not cover tires, polyethylene tanks, cardans, hydraulic components, etc., which are equipment guaranteed by their manufacturers. Manufacturing and/or material defects, the subject of this warranty term, will not, under any circumstances, constitute a reason for termination of the purchase and sale contract, or for compensation of any nature.

**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.

## ▪ Inspection and delivery certificate

**SERVICE BEFORE DELIVERY:** This implement has been carefully prepared by the sales organization, inspected in all its parts according to the manufacturer's instructions.

**DELIVERY SERVICE:** The user has been informed of the warranty terms in force and has been instructed in the use and maintenance of the product.

I confirm that I have been informed of the terms of the warranty in force and instructed on the correct use and maintenance of the implement.

Implement: \_\_\_\_\_ Serail No: \_\_\_\_\_

Date: \_\_\_\_\_ Tax No: \_\_\_\_\_

Resale: \_\_\_\_\_

Phone: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

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

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

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

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

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

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

Date of sale: \_\_\_\_\_

*Reseller's signature/ stamp* \_\_\_\_\_

*1st copy - Owner*



## ■ Inspection and delivery certificate

**SERVICE BEFORE DELIVERY:** This implement has been carefully prepared by the sales organization, inspected in all its parts according to the manufacturer's instructions.

**DELIVERY SERVICE:** The user has been informed of the warranty terms in force and has been instructed in the use and maintenance of the product.

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Implement: \_\_\_\_\_ Serail No: \_\_\_\_\_

Date: \_\_\_\_\_ Tax No: \_\_\_\_\_

Resale: \_\_\_\_\_

Phone: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

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

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

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

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

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

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

Date of sale: \_\_\_\_\_

**Reseller's signature/ stamp** \_\_\_\_\_

**2nd copy - Reseller**

## ■ Inspection and delivery certificate

**SERVICE BEFORE DELIVERY:** This implement has been carefully prepared by the sales organization, inspected in all its parts according to the manufacturer's instructions.

**DELIVERY SERVICE:** The user has been informed of the warranty terms in force and has been instructed in the use and maintenance of the product.

I confirm that I have been informed of the terms of the warranty in force and instructed on the correct use and maintenance of the implement.

Implement: \_\_\_\_\_ Serail No: \_\_\_\_\_

Date: \_\_\_\_\_ Tax No: \_\_\_\_\_

Resale: \_\_\_\_\_

Phone: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

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

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

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

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

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

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

Date of sale: \_\_\_\_\_

**Reseller's signature/ stamp** \_\_\_\_\_

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



**BALDAN IMPLEMENTOS AGRÍCOLAS S/A.**

Av. Baldan, 1500 | Nova Matão | CEP: 15993-900 | Matão-SP | Brasil  
Phone: (0\*\*16) 3221-6500 | Fax: (0\*\*16) 3382-6500

Home Page: [www.baldan.com.br](http://www.baldan.com.br) | e-mail: [sac@baldan.com.br](mailto:sac@baldan.com.br)

Export: Phone: 55 16 3321-6500 | Fax: 55 16 3382-4212 | 3382-2480

e-mail: [export@baldan.com.br](mailto:export@baldan.com.br)

THE STAMP WILL BE PAID BY:

**REPLY CARD**  
NO NEED TO SEAL

1.74.05.0059-5  
AC MATÃO  
ECT/DR/SP





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Matão/SP - Brasil  
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