

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



Scan the QR Code on the
identification plate of your
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



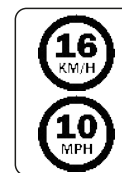
Only start operating the tractor when you are properly seated and have your seat belt fastened.

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



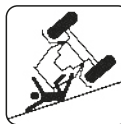
When transporting the FC 600, do not exceed a speed of 16 Km/h or 10 MPH, to avoid the risk of damage and accidents.

ATTENTION



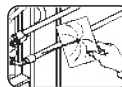
Do not transport people on the tractor or in or on the equipment.

ATTENTION



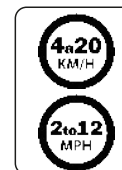
There is a risk of serious injury from tipping over when working on slopes. Do not use excessive speed.

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



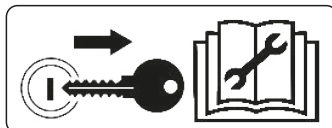
Hydraulic oil under pressure can cause serious injury if it leaks. Periodically check the state of repair of the hoses. If there are signs of leaks, replace immediately. Before connecting or disconnecting the hydraulic hoses, relieve the pressure in the system by operating the control with the tractor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

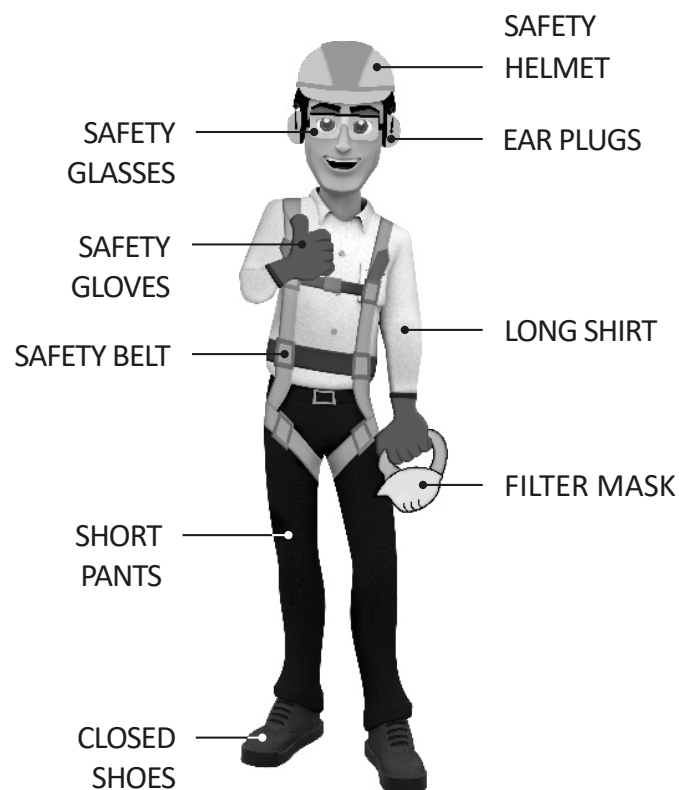


ATTENTION

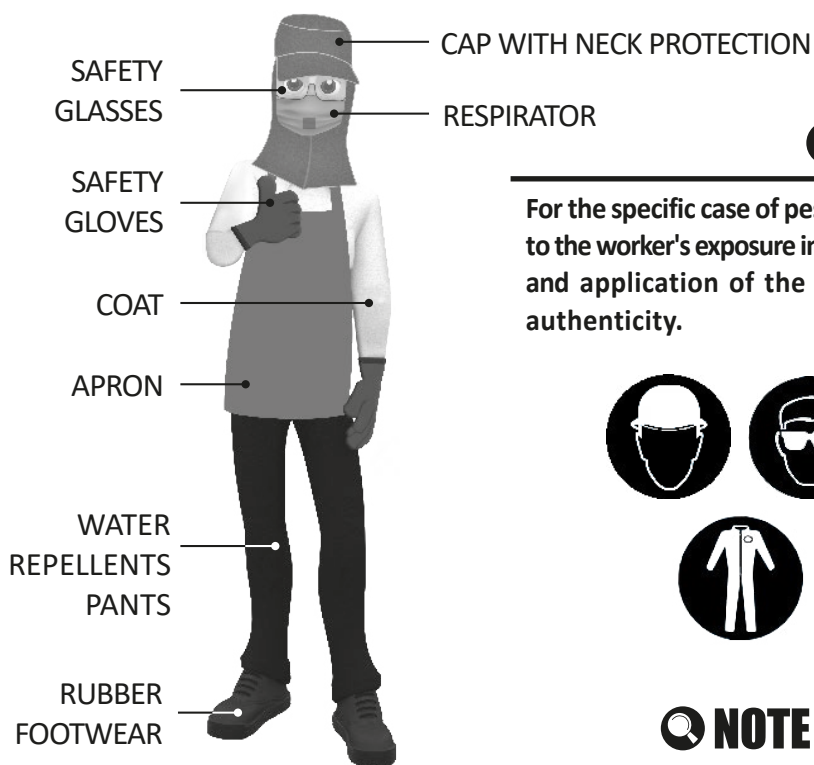
DO NOT WORK WITH THE FC 600 WITHOUT FIRST PUTTING ON THE EPIS (SAFETY EQUIPMENT). IGNORING THIS WARNING MAY RESULT IN HARM TO HEALTH, SERIOUS ACCIDENTS OR DEATH.

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

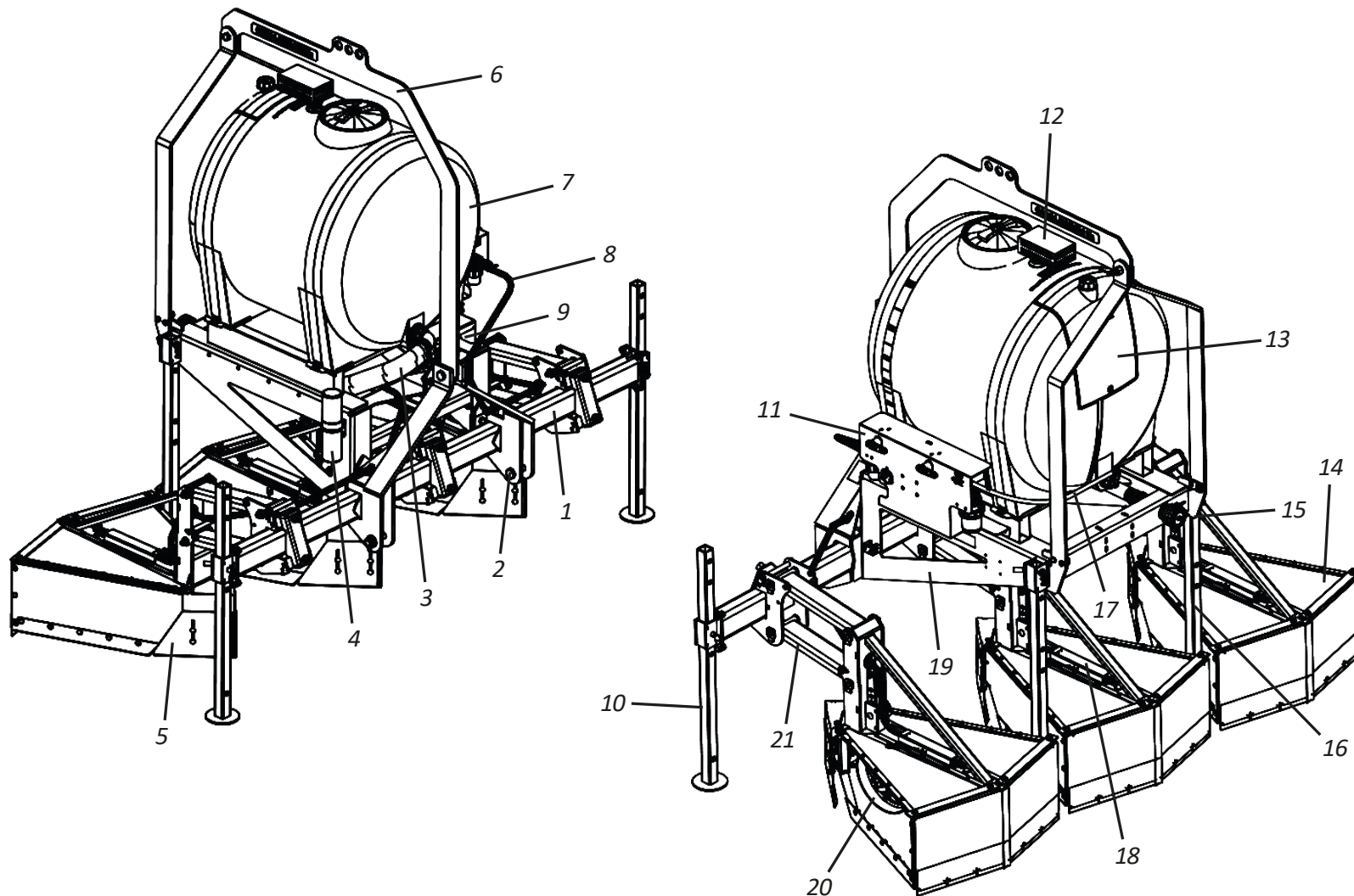
- ⚠ Check the minimum tractor power recommended for each FC 600 model. Only use a tractor with power and ballast compatible with the load and topography of the terrain.
- ⚠ Depending on the equipment used and the working conditions in the field or maintenance areas, precautions are necessary. Baldan 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

■ Components

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

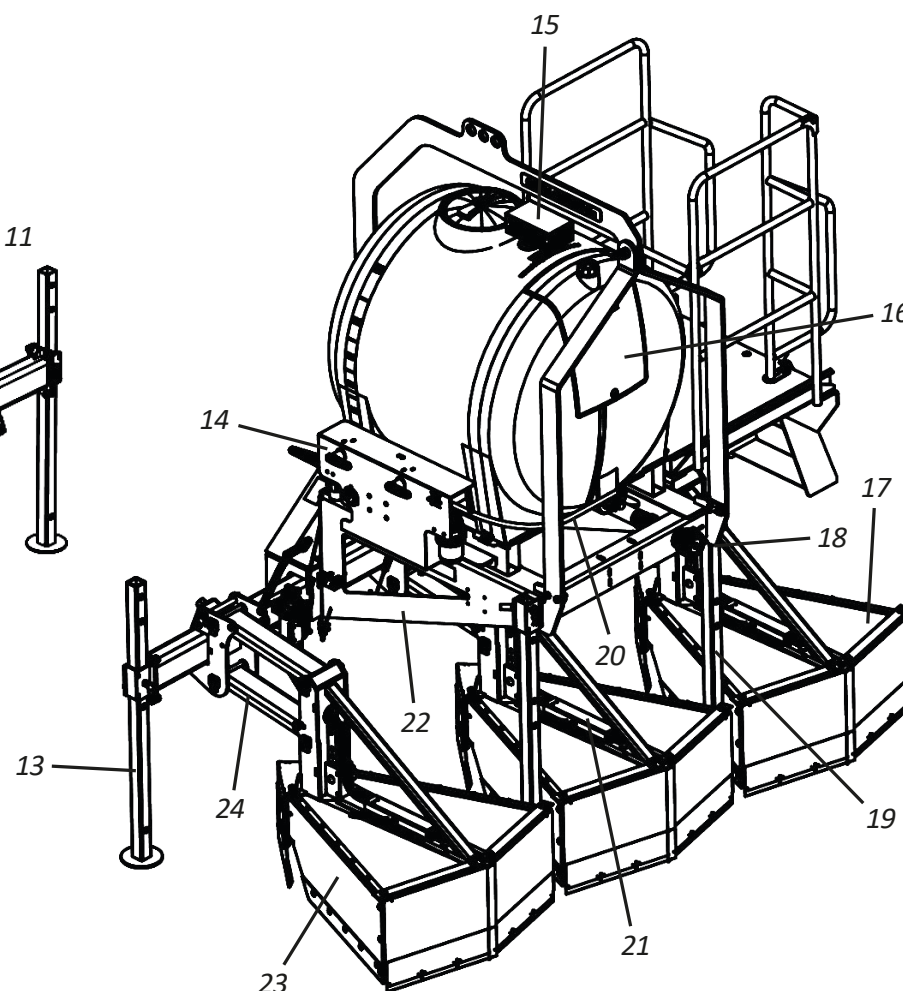
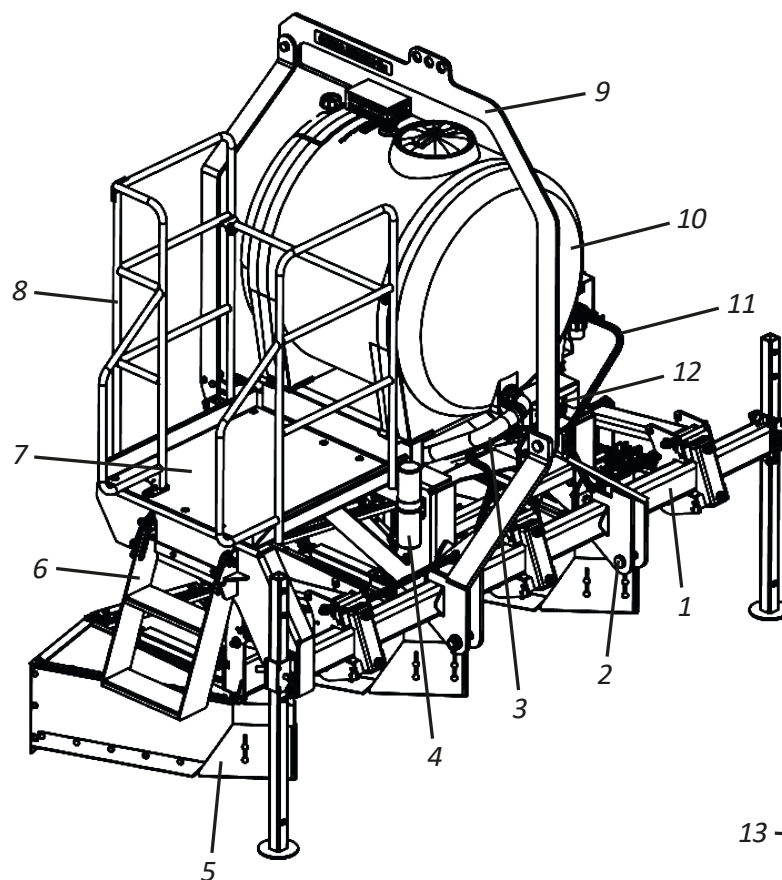
1. Frame
2. Category II hitching pin
3. Supply system hose
4. Manual container
5. Front trolley support
6. Lifting support
7. Main tank 600 liters
8. Pressure hose
9. Flow monitor
10. Front support bracket
11. Control panel
12. Agitator valve
13. Clean water tank 30 liters
14. Canvas
15. Buffer
16. Rear 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

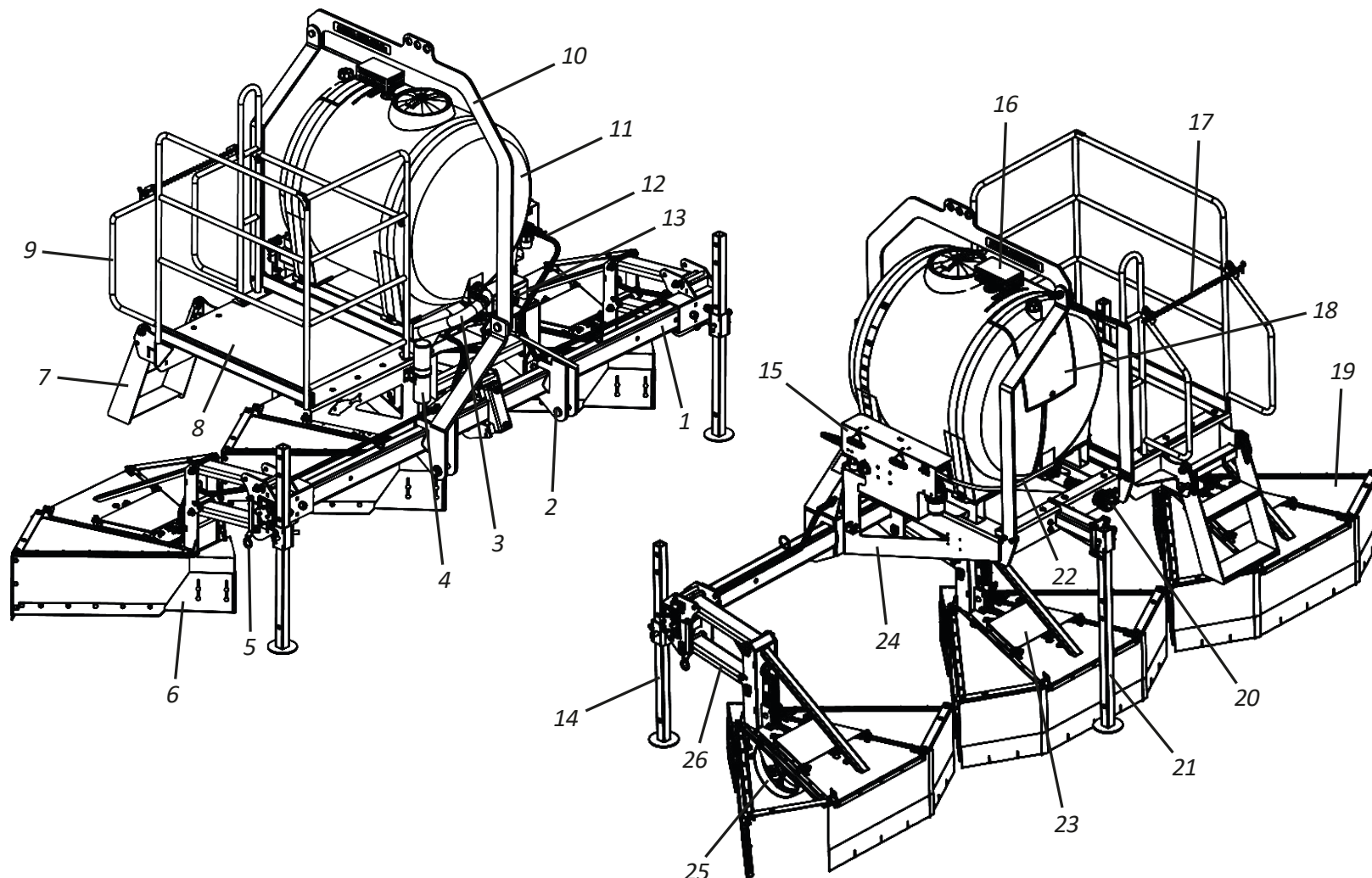
1. Frame
2. Category II hitching pin
3. Supply system hose
4. Manual container
5. Front trolley support
6. Stairs
7. Platform
8. Platform handrail
9. Lifting support
10. Main tank 600 liters
11. Pressure hose
12. Flow monitor
13. Front support bracket
14. Control panel
15. Agitator valve
16. Clean water 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

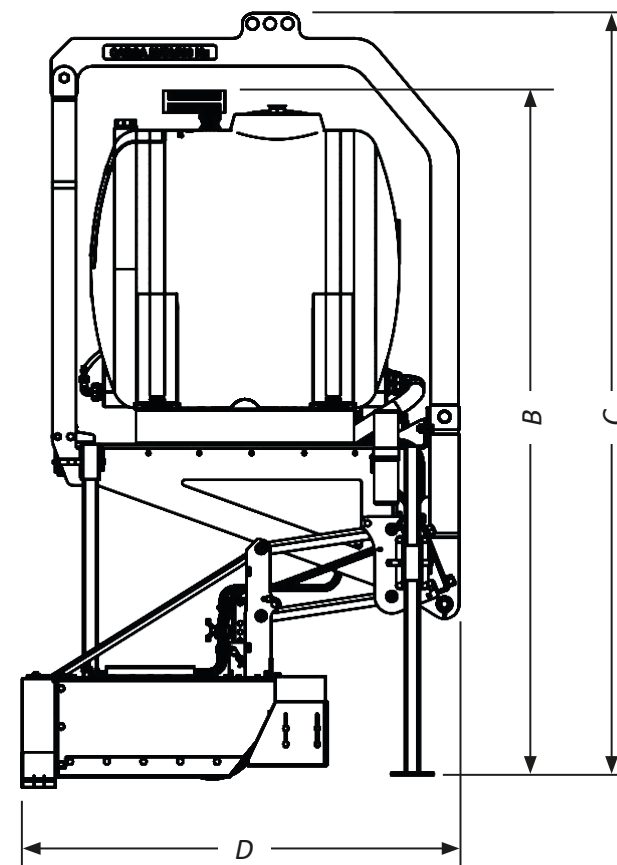
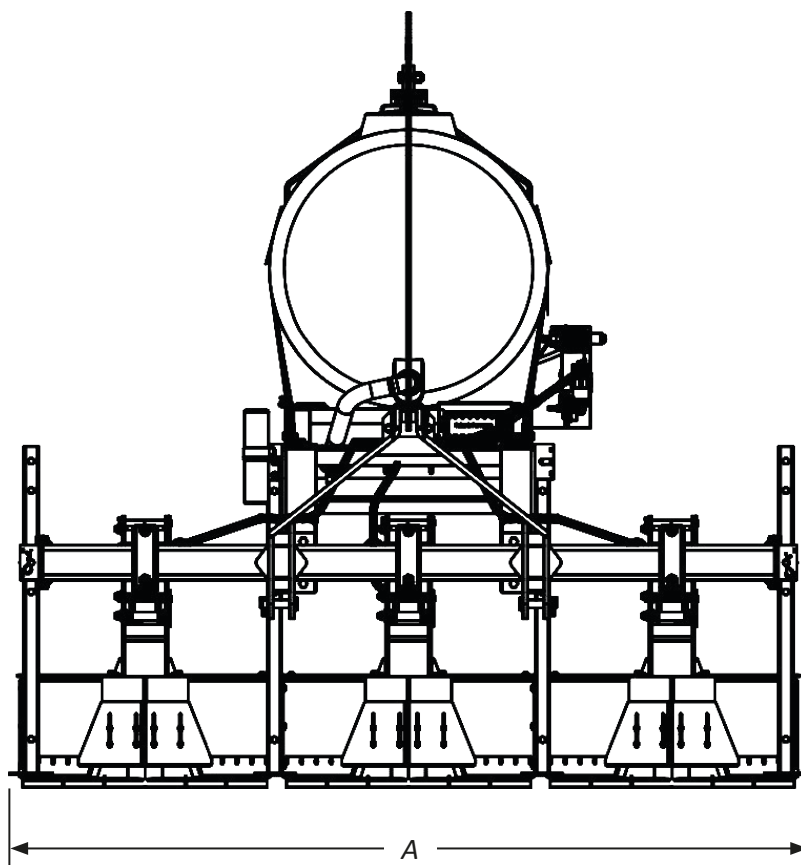
• FC 600 - Fast Clean Symmetrical Planting (1.4 to 1.5 meters spacing) - With Platform

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

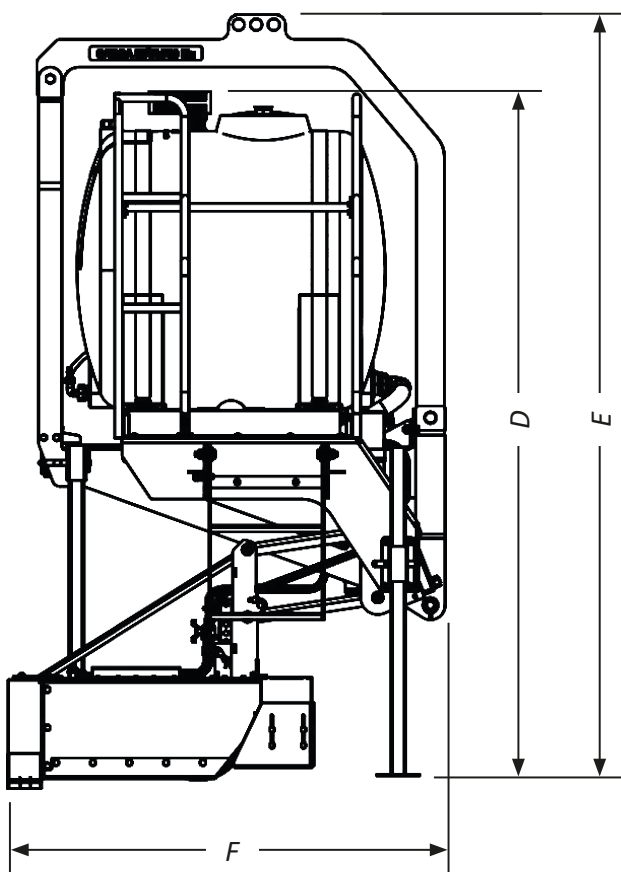
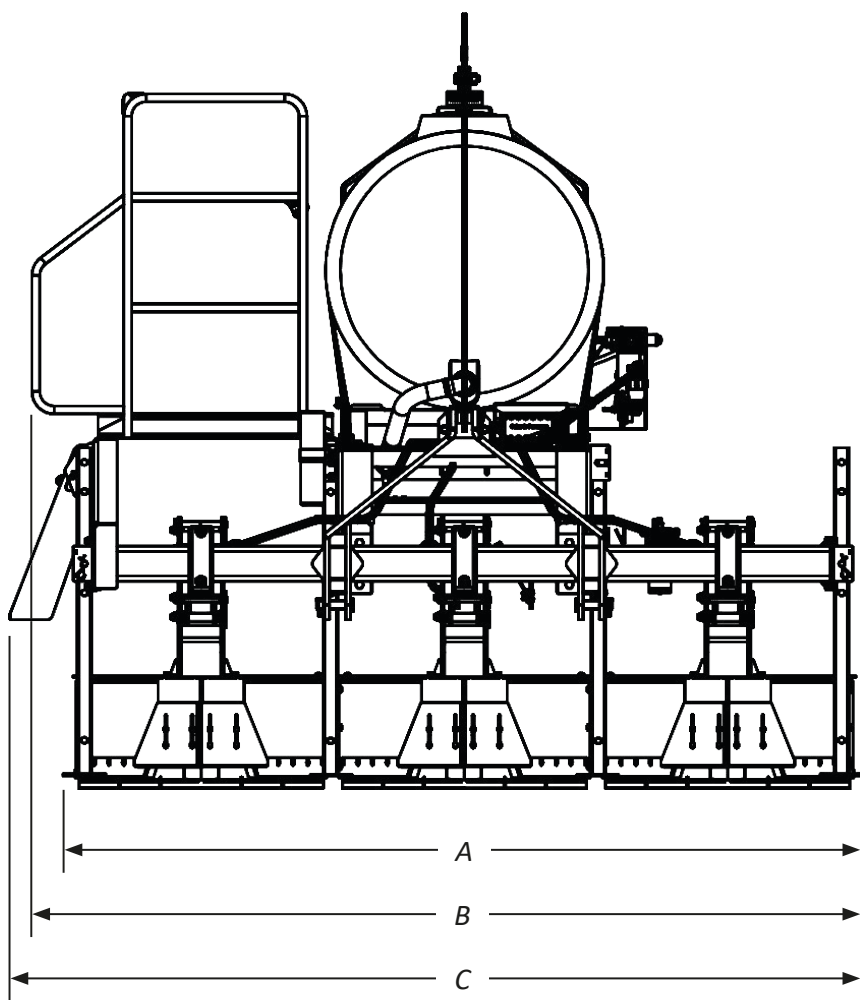
- FC 600 - Fast Clean Double Alternating Planting - Without Platform



Model	A (mm)	B (mm)	C (mm)	D (mm)
FC 600	2727	2340	2603	1485

▪ Dimensions

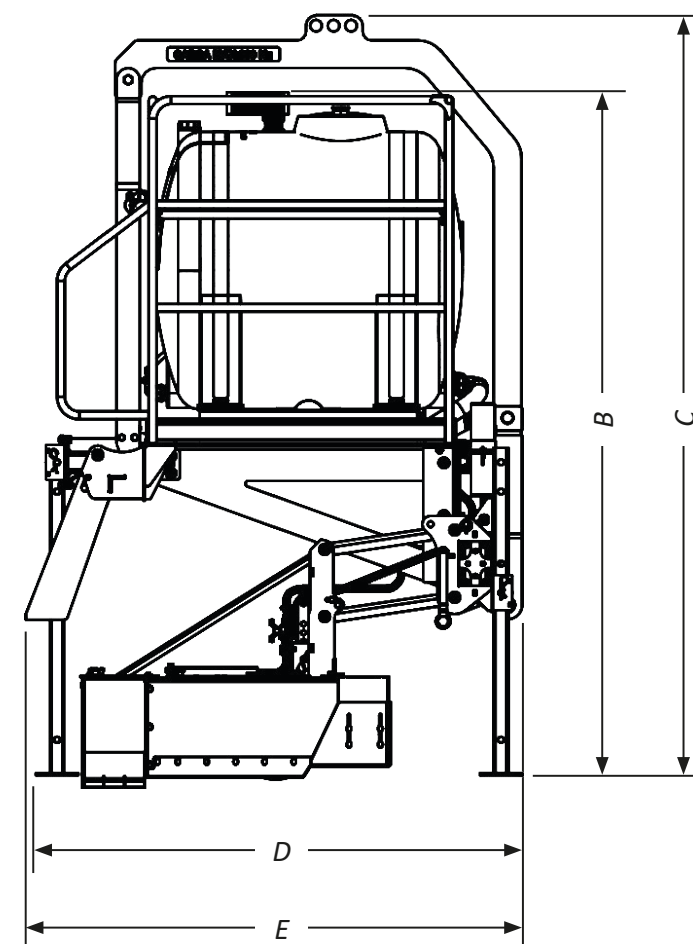
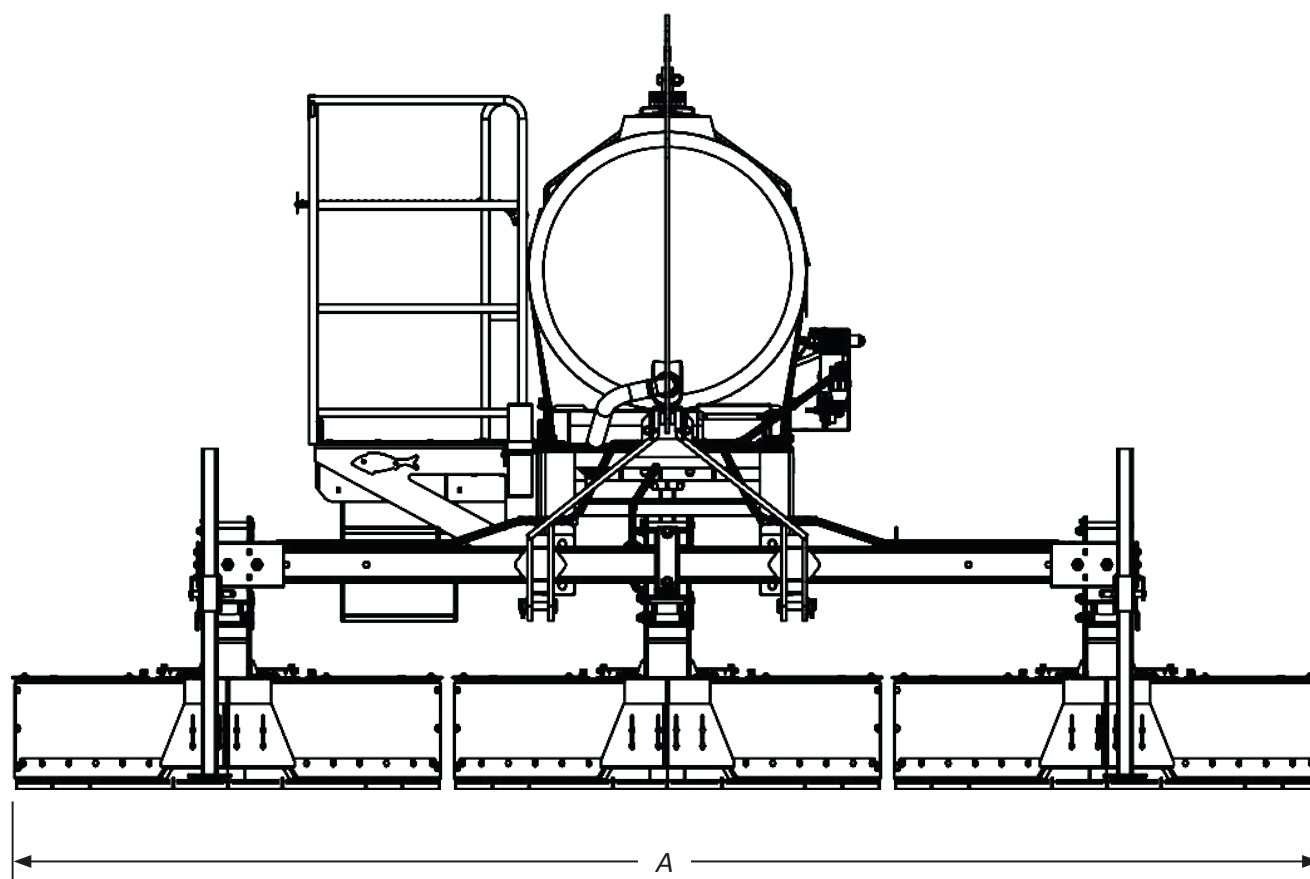
- FC 600 - Fast Clean Double Alternating Planting - With platform



Model	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (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 (mm)	B (mm)	C (mm)	D (mm)	E (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.

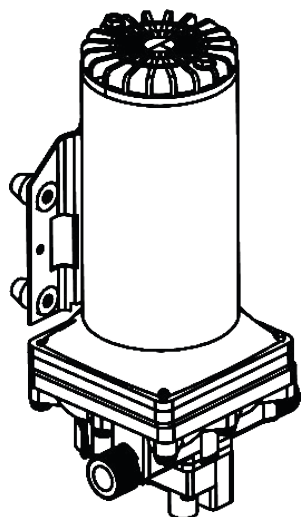
UNAUTHORIZED USE OF THE FC 600

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

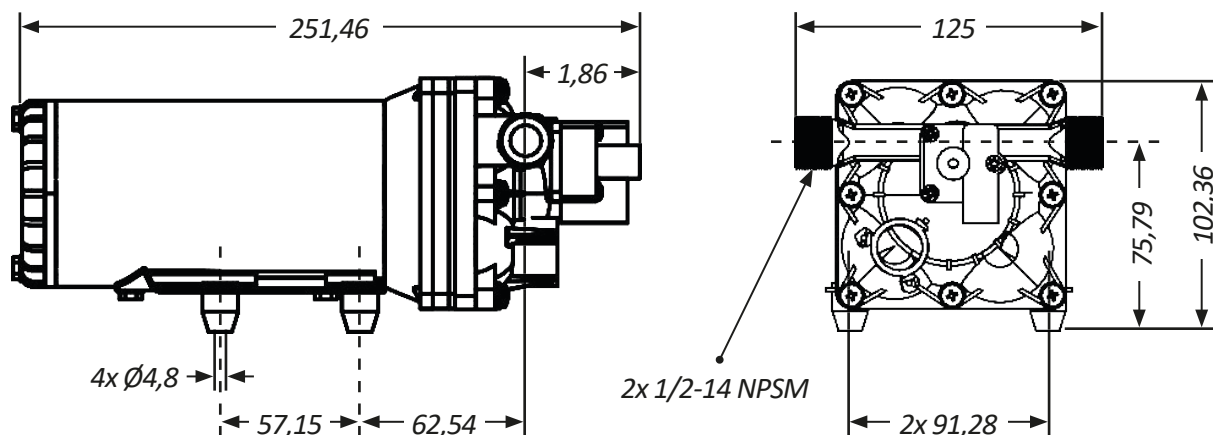
BASE: Zinc-plated steel

NET WEIGHT: 2,7 Kg

SERVICE CYCLE: Intermittent (See Temperature Curve)

TYPICAL APPLICATIONS: Agricultural spraying

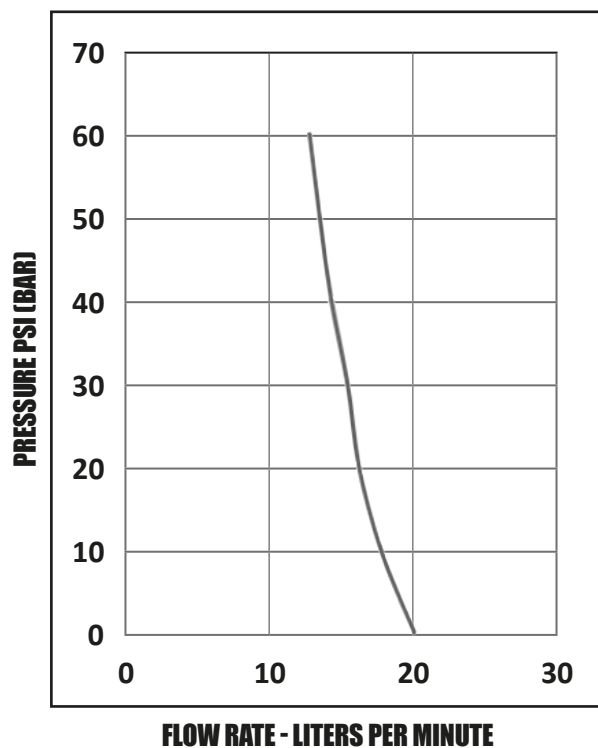
DIMENSIONS:



■ 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

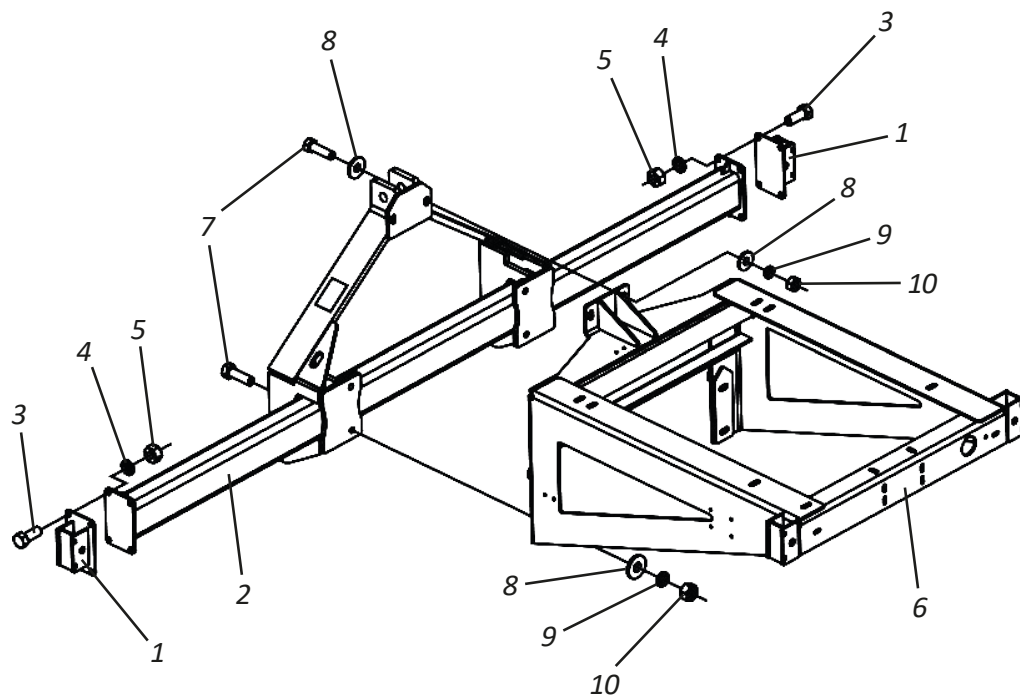
The **FC 600** leaves the factory assembled. For the purposes of parts replacement, follow the assembly instructions.

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

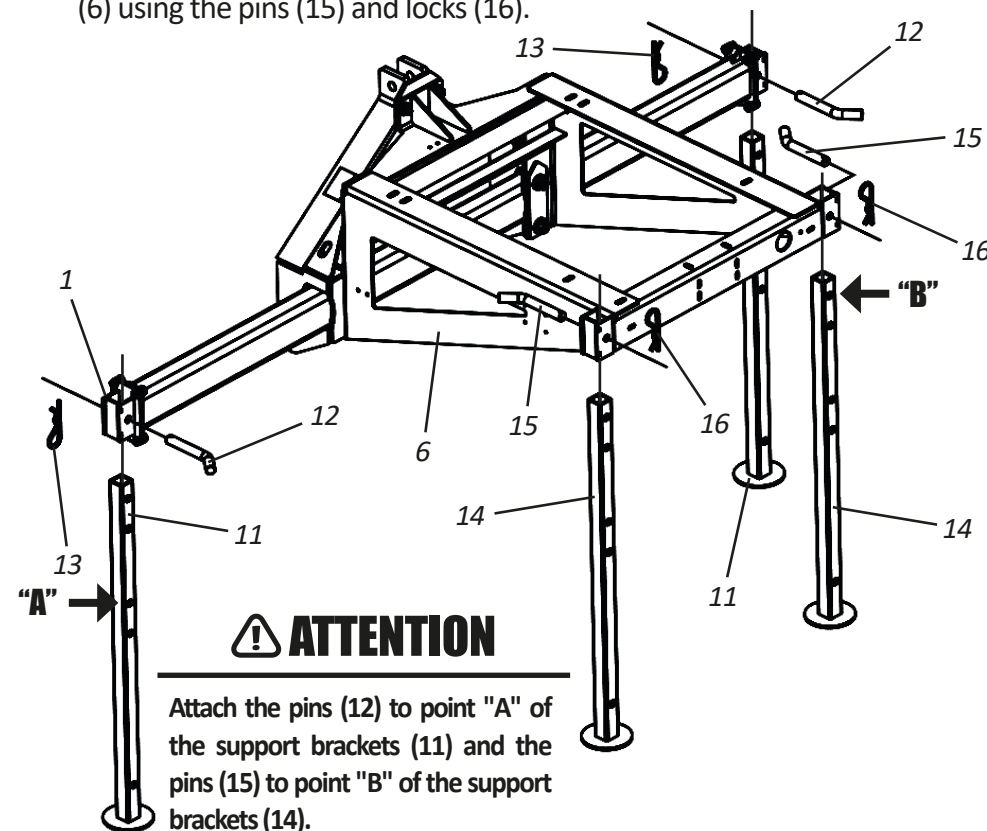
• Assembly of the frame, tank bracket and support brackets - FC 600 Double Alternating Planting - Without Platform

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).

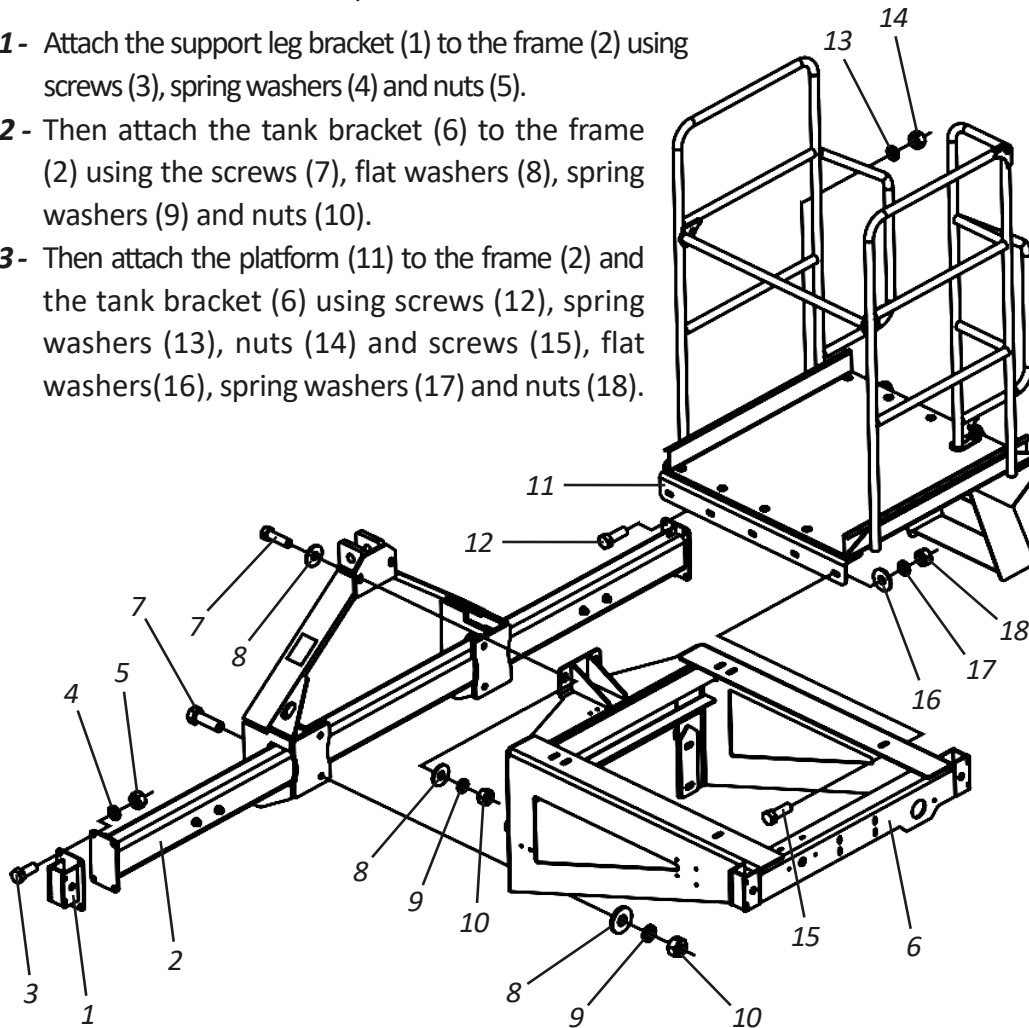


■ Assembly

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

To assemble the frame, proceed as follows:

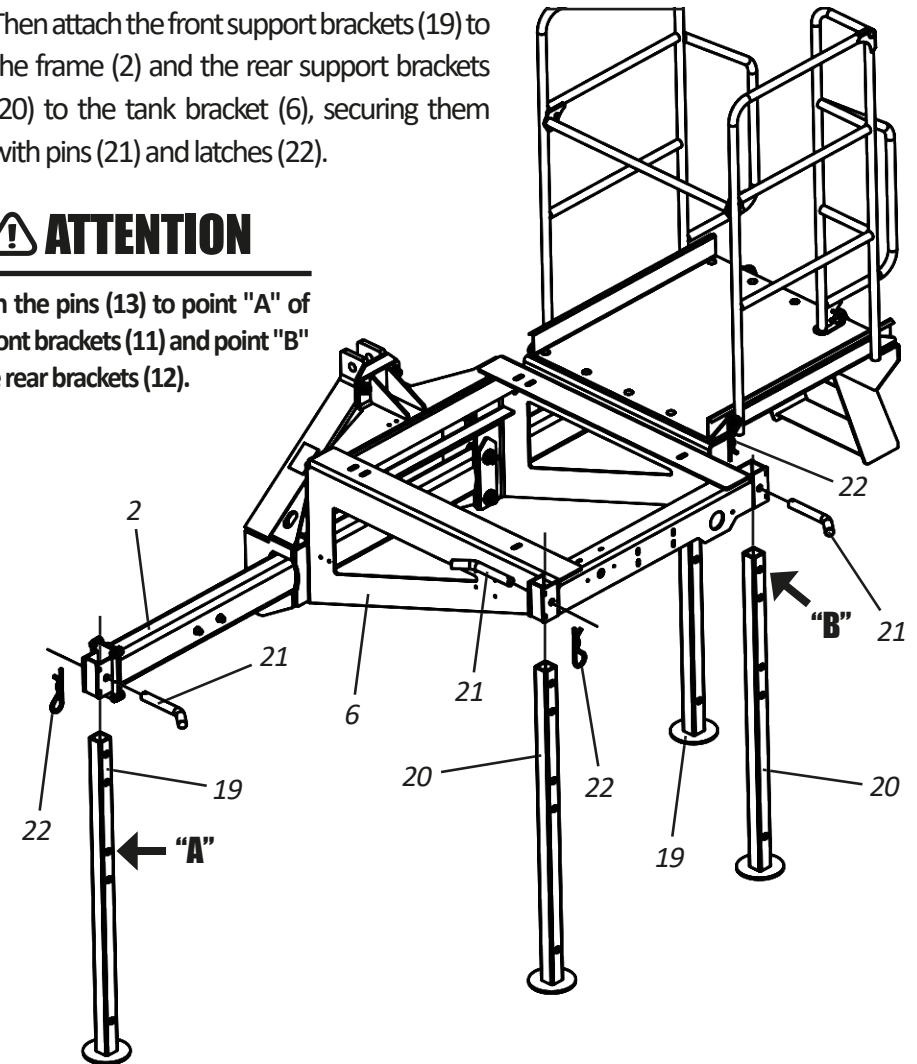
- 01 -** Attach the support leg bracket (1) to the frame (2) using screws (3), spring washers (4) and nuts (5).
- 02 -** Then attach the tank bracket (6) to the frame (2) using the screws (7), flat washers (8), spring washers (9) and nuts (10).
- 03 -** Then attach the platform (11) to the frame (2)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

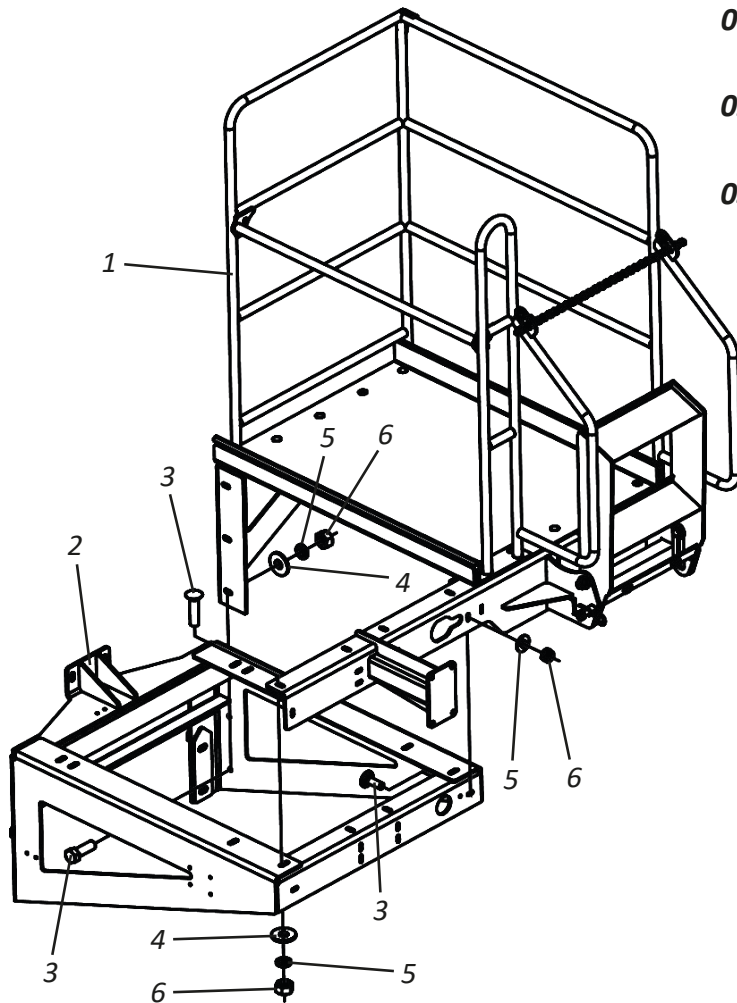
Attach the pins (13) to point "A" of the front brackets (11) and point "B" of the rear brackets (12).



■ Assembly

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

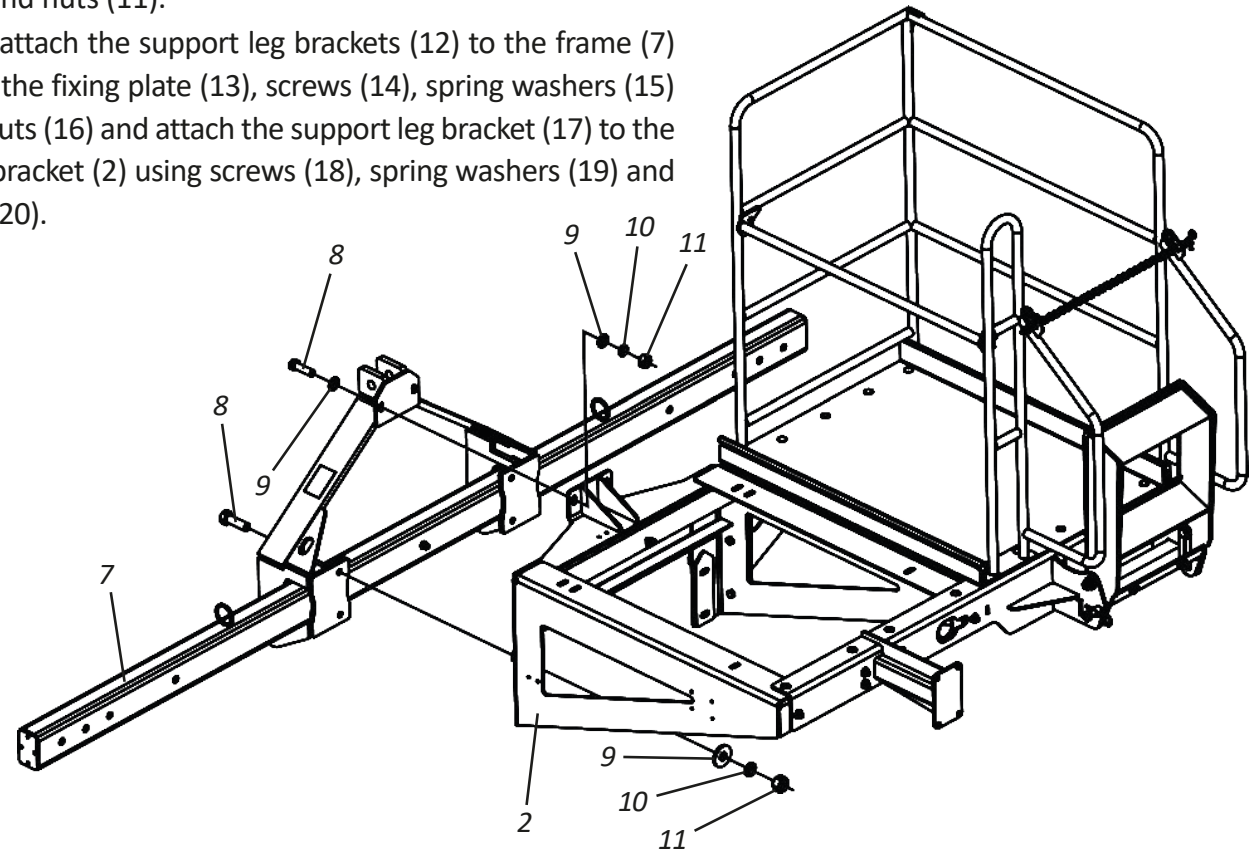
To assemble the tank bracket, platform and frame, proceed as follows:



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).

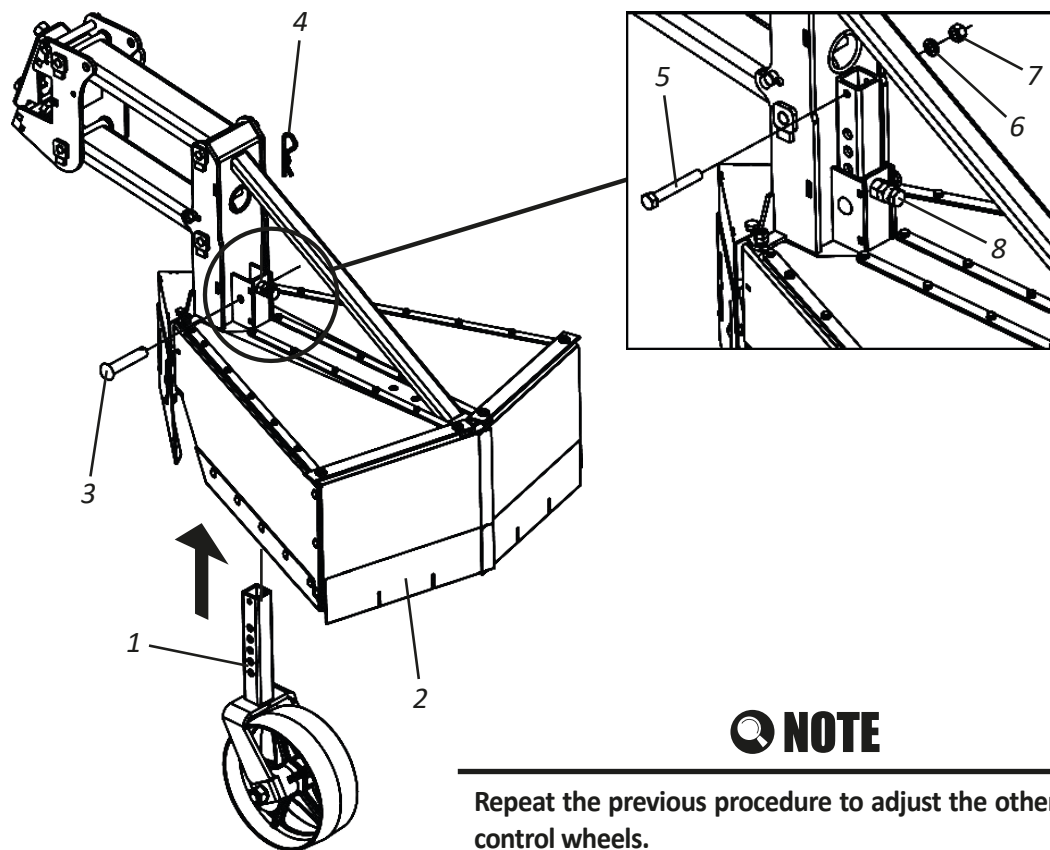


■ Assembly

• 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).



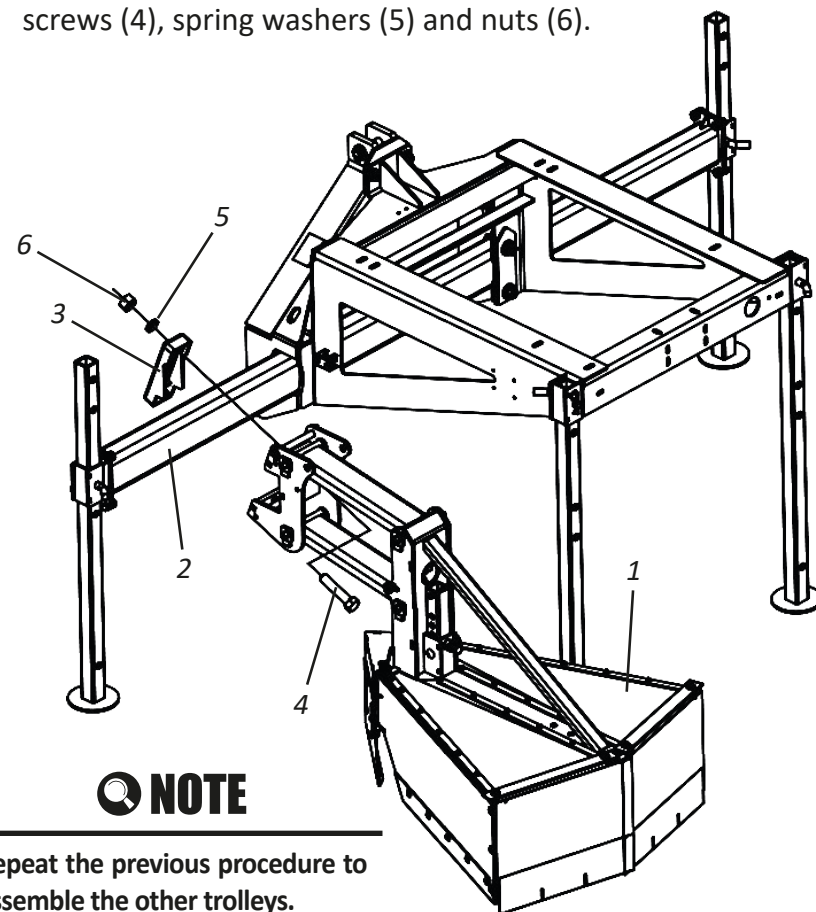
NOTE

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

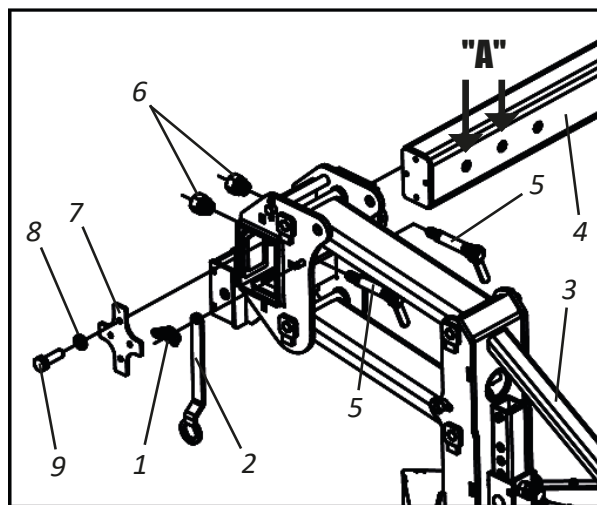
Repeat the previous procedure to assemble the other trolleys.

■ 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).

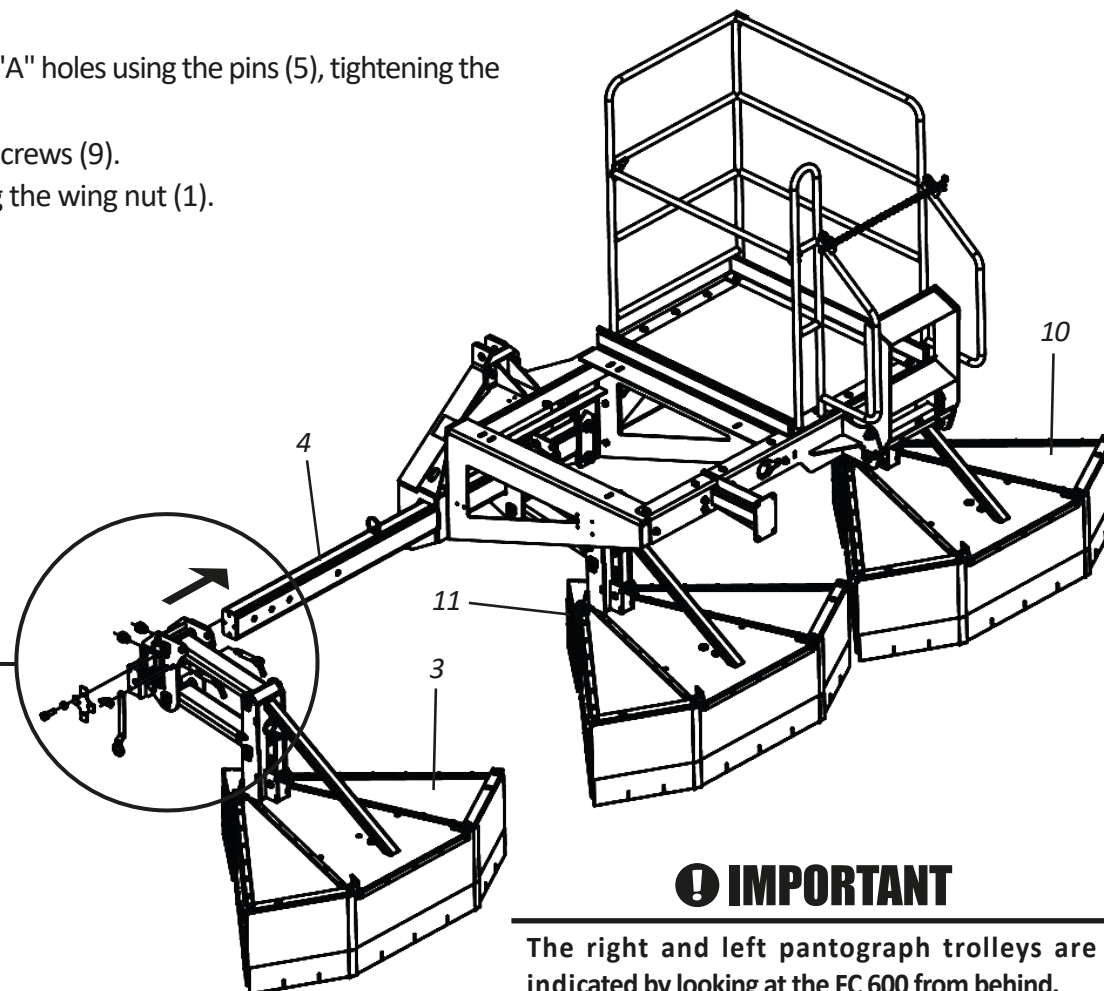


Repeat the previous procedure to assemble the right pantograph trolley (10).



ATTENTION

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



! IMPORTANT

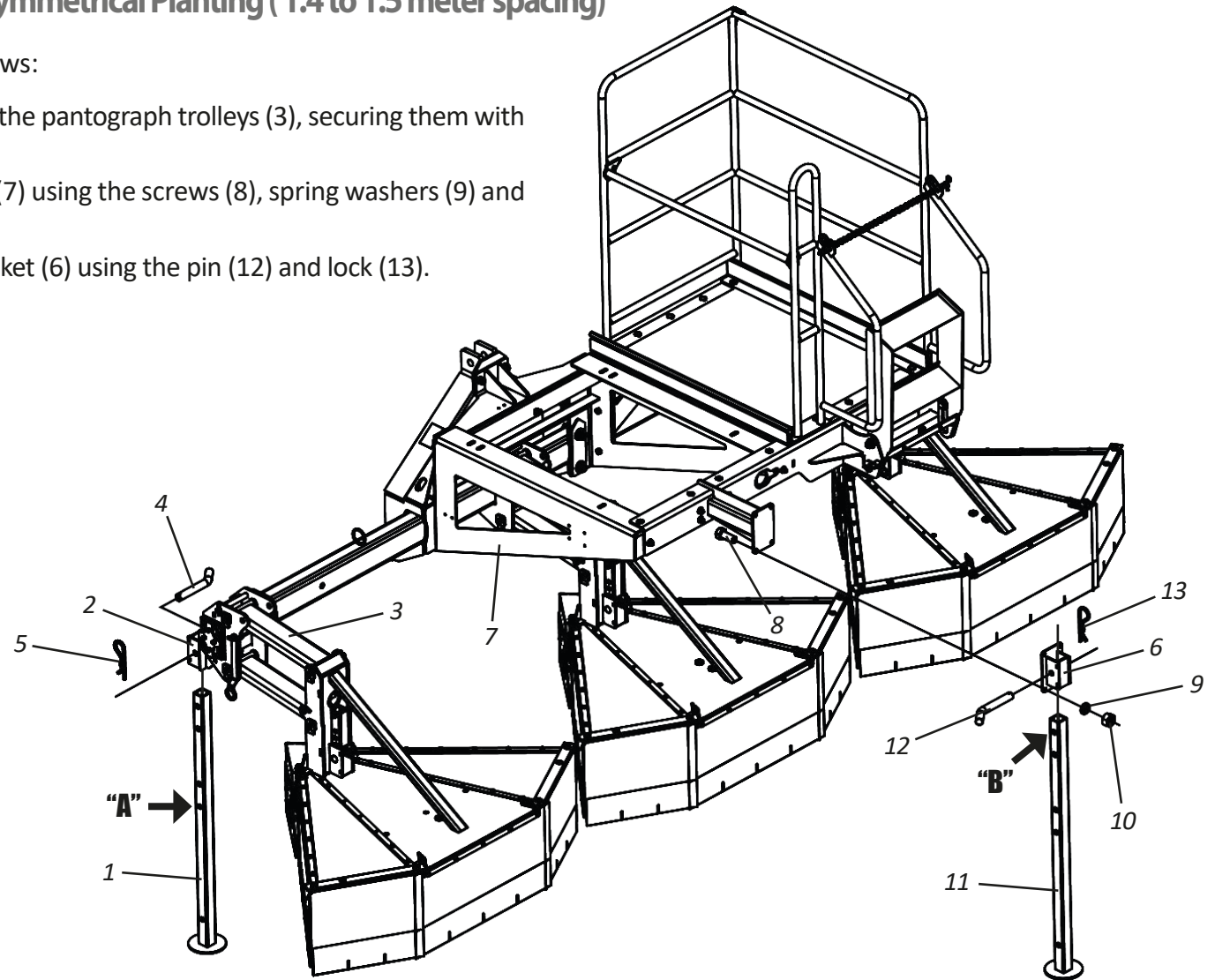
The right and left pantograph trolleys are indicated by looking at the FC 600 from behind.

▪ 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

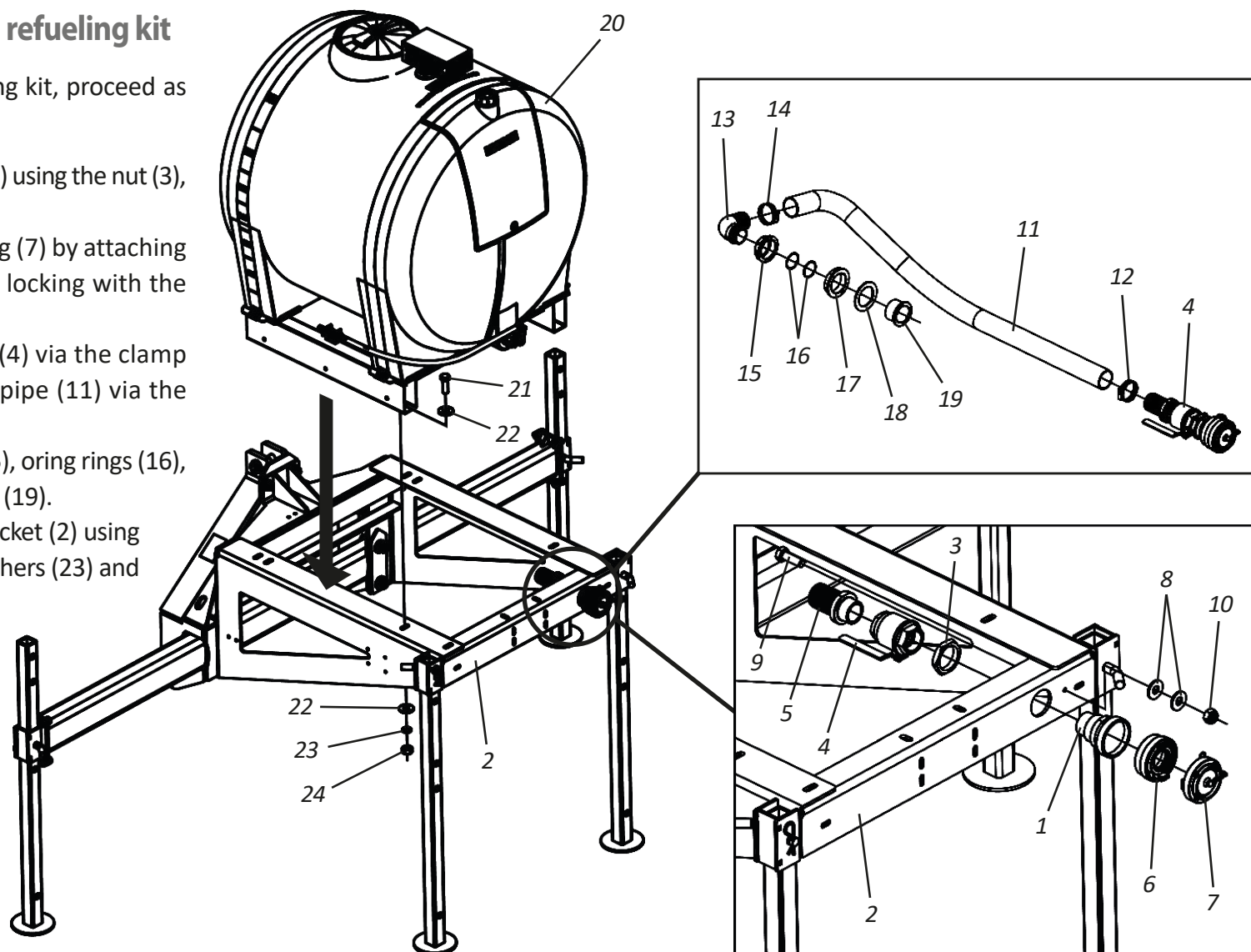
To assemble the valve, tank and refueling kit, proceed as follows:

- 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

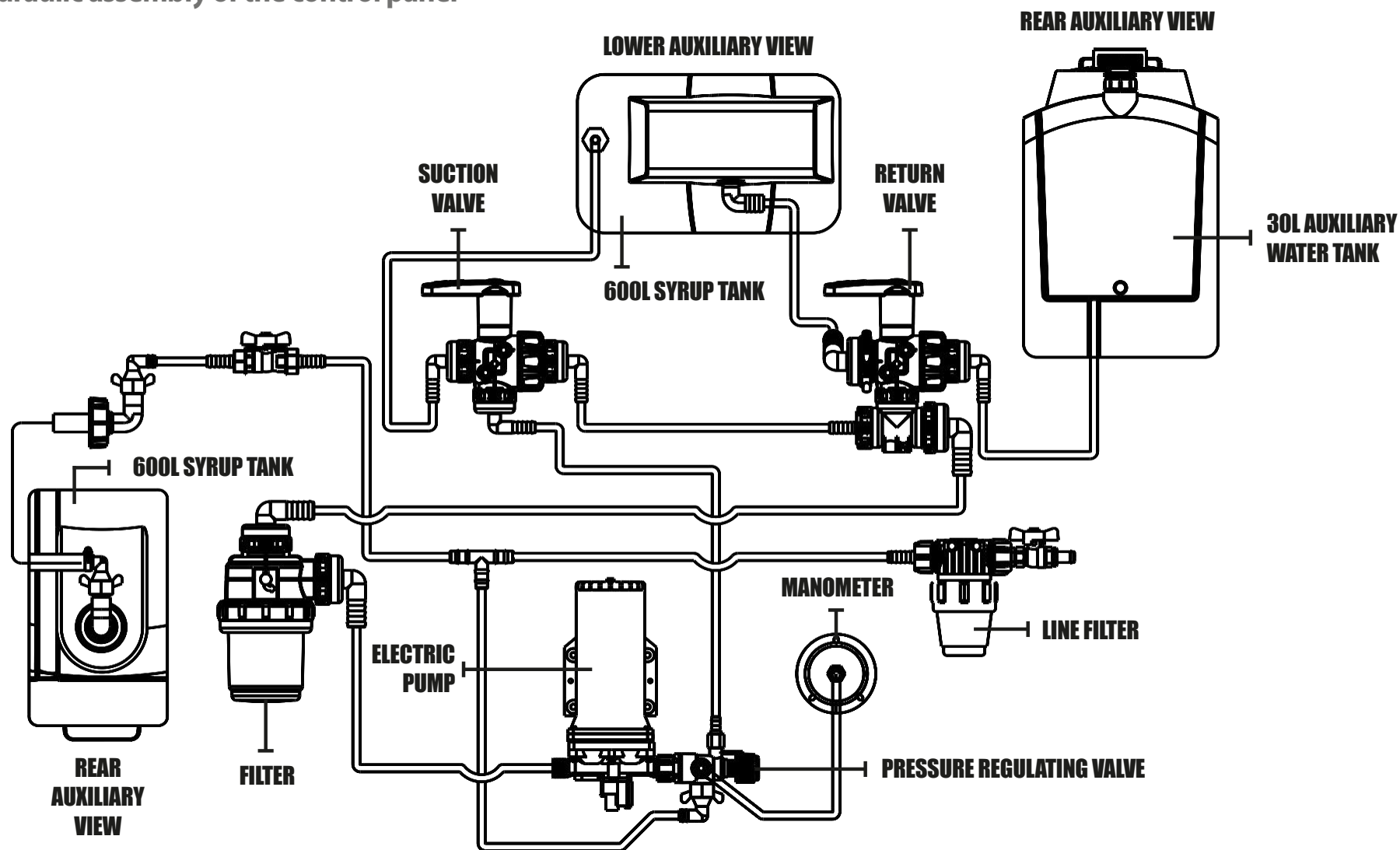


The FC 600 package box comes with a swivel adapter to attach to the truck's supply hose in case it doesn't have an adapter.



▪ Assembly

- Hydraulic assembly of the control panel

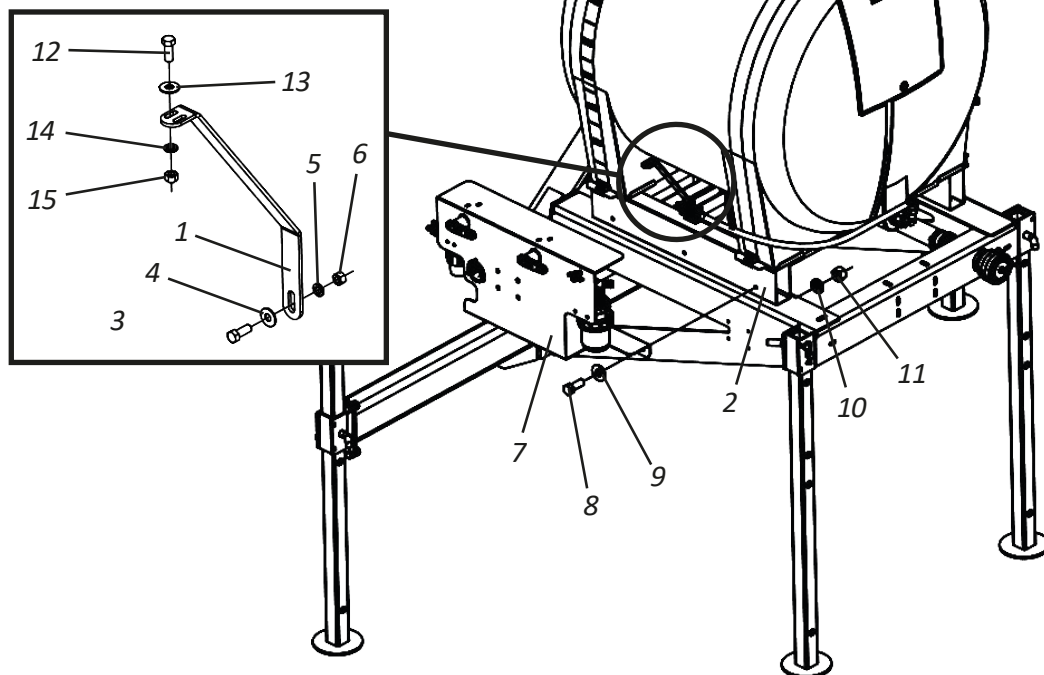


▪ Assembly

• Assembling the control panel

To assemble the control panel, proceed as follows:

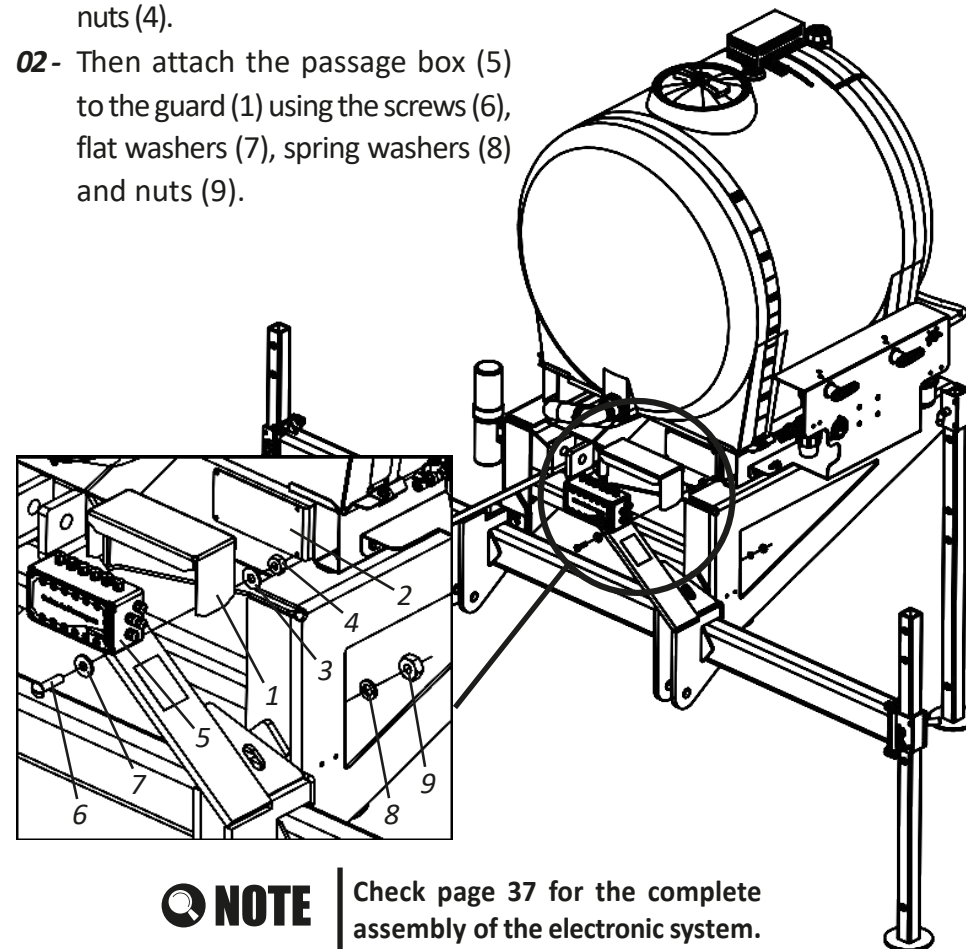
- 01** - Attach the plate (1) to the bracket (2) using the screws (3), flat washers (4), spring washers (5) and nuts (6).
- 02** - Then attach the control panel (7) to the bracket (2) using the screws (8), flat washers (9), spring washers (10), nuts (11) and attach the plate (1) to the control panel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

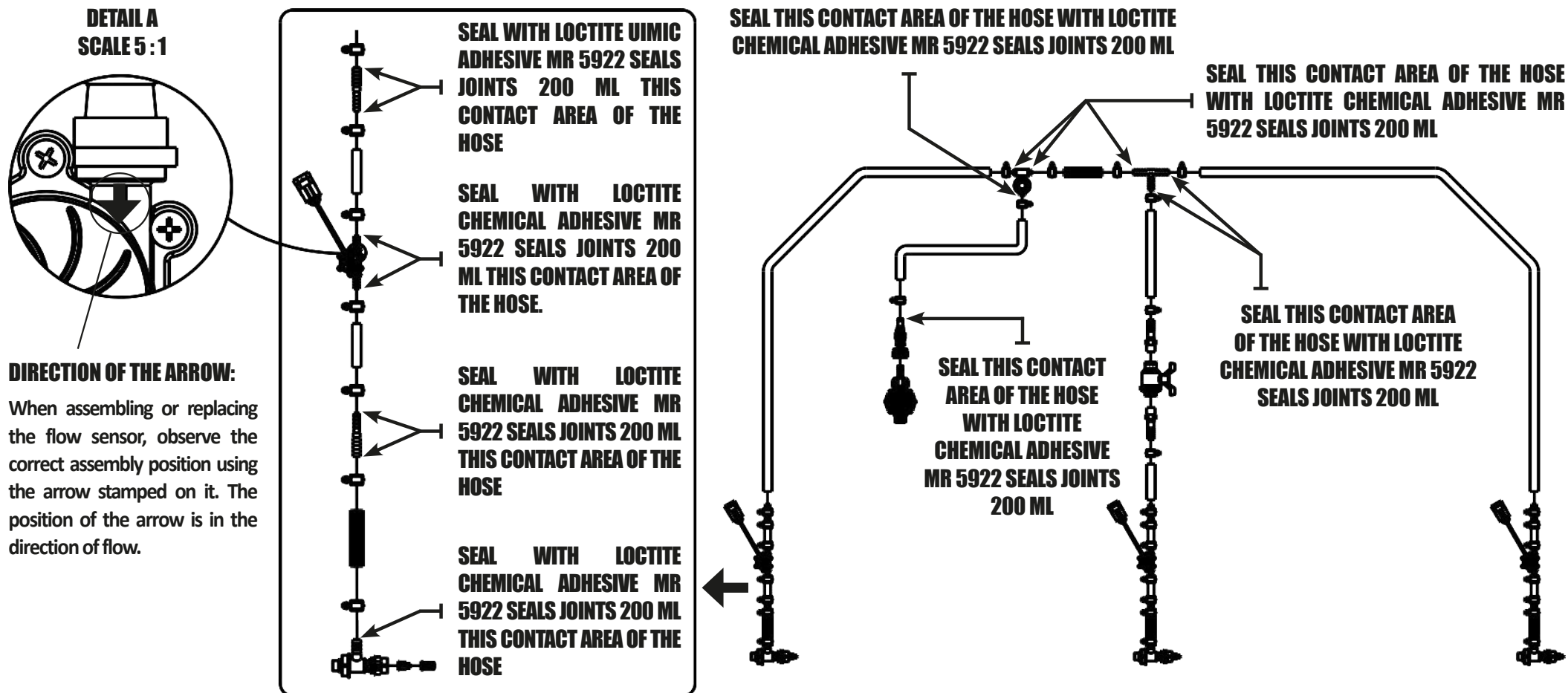
- 01** - Place the guard (1) against the plate (2) with the flat washers (3) and nuts (4).
- 02** - Then attach the passage box (5) to the guard (1) using the screws (6), flat washers (7), spring washers (8) and nuts (9).



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

■ Assembly

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



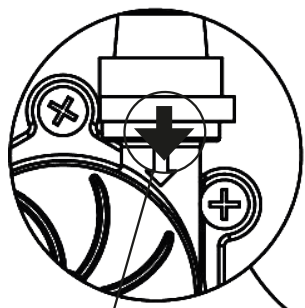
- **Hydraulic system assembly 6 nozzles - FC 600 Symmetrical planting (1.4 to 1.5 meter spacing)**



■ Assembly

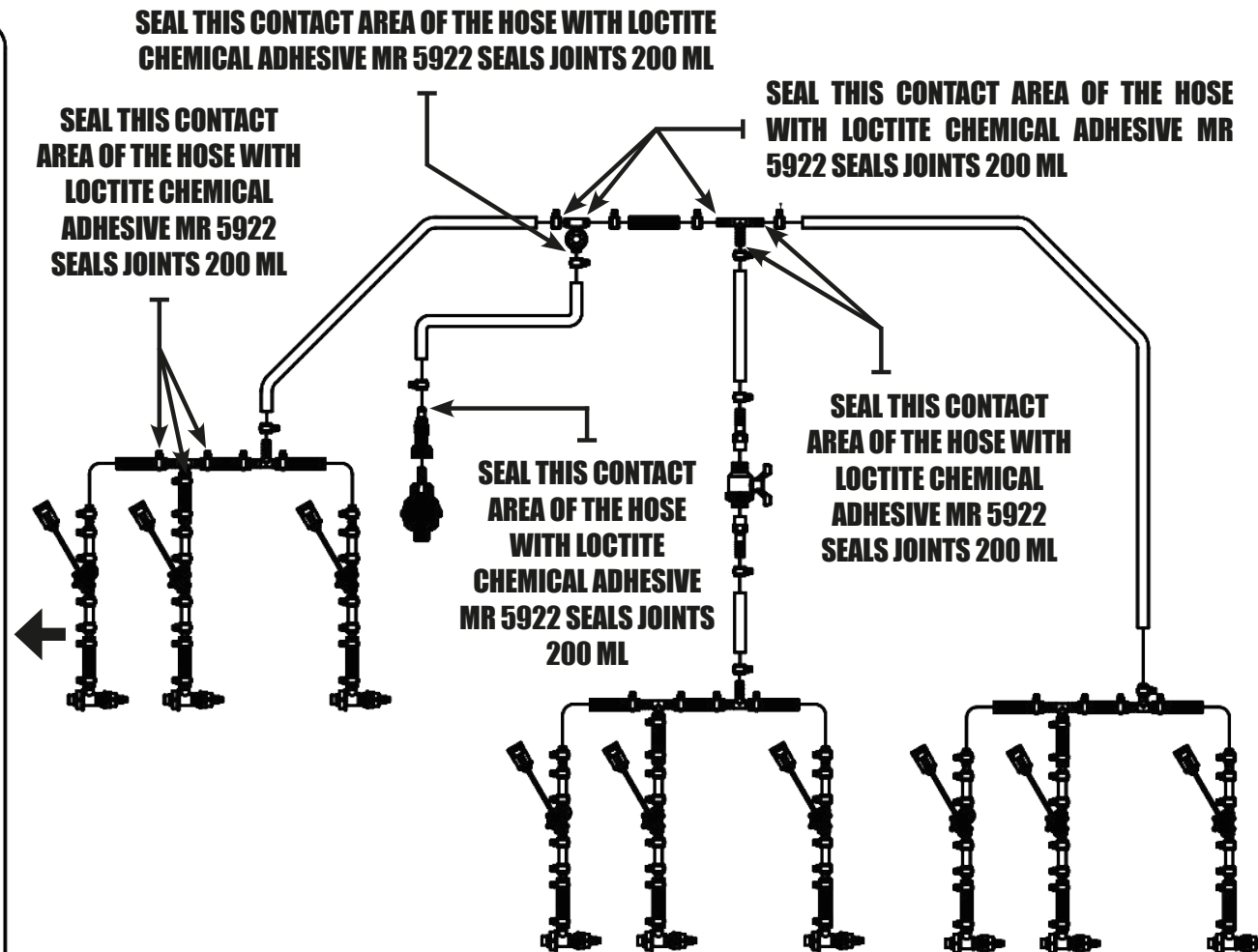
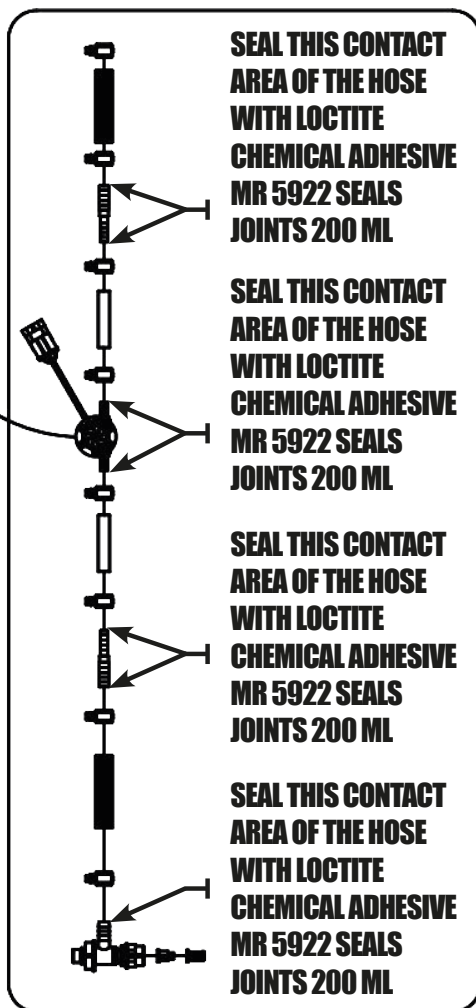
- Hydraulic system assembly 9 nozzles - FC 600 Symmetrical planting (1.4 to 1.5 meter spacing)

DETAIL A
SCALE 5:1



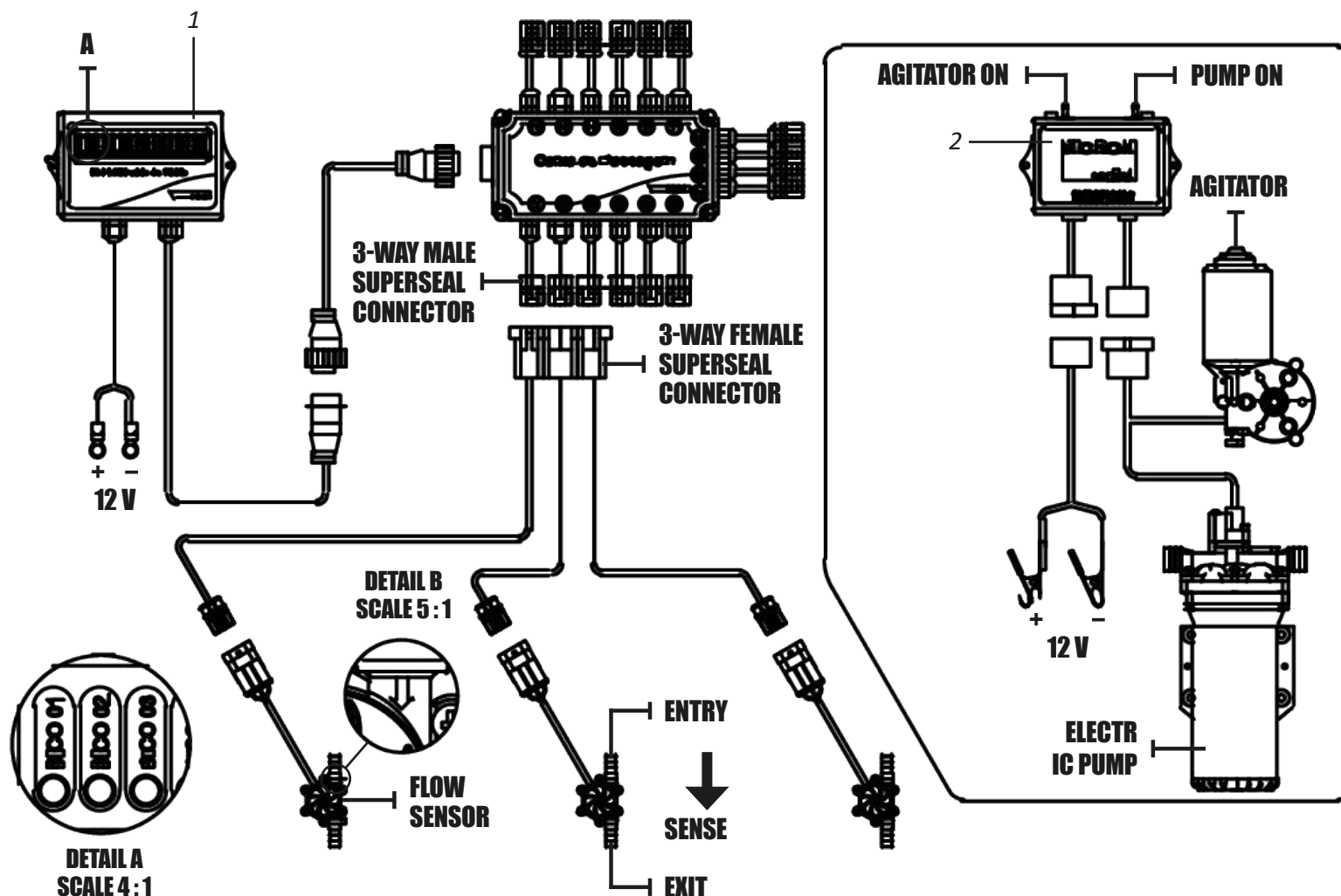
DIRECTION OF THE ARROW:

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

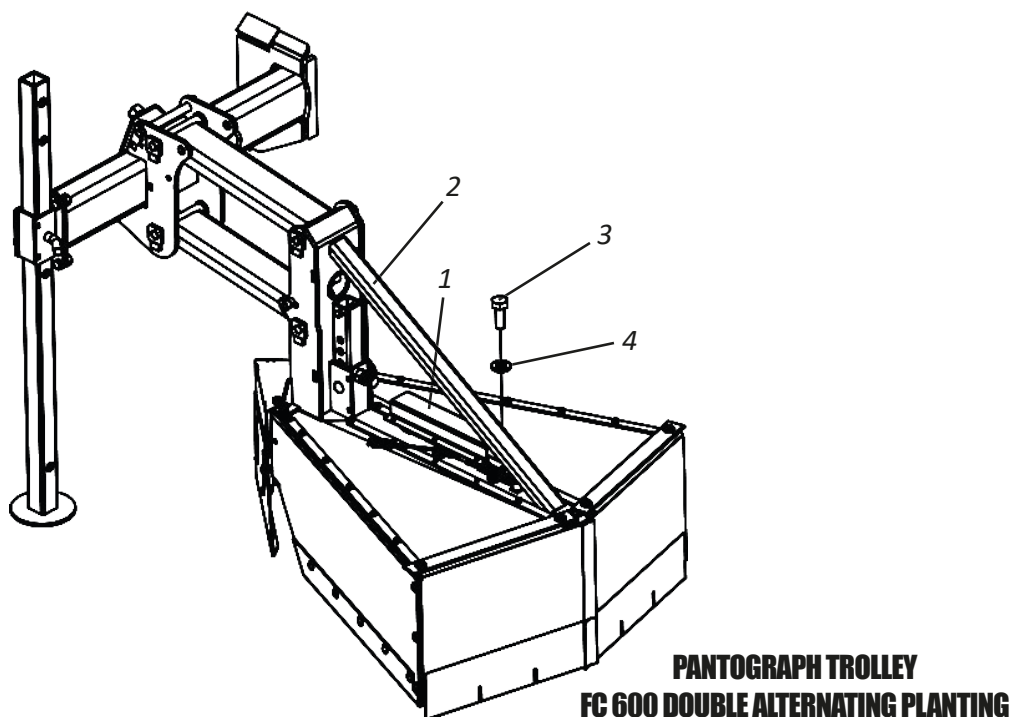
Items (1 and 2) will be mounted on the tractor. The electrical harness must be connected to the tractor's battery, respecting the system's charging capacity. The panel must be installed in a place protected from water, humidity and dust. When installation in a protected location is not possible, disconnect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

■ Assembly

• Assembling the nozzle sensor guard

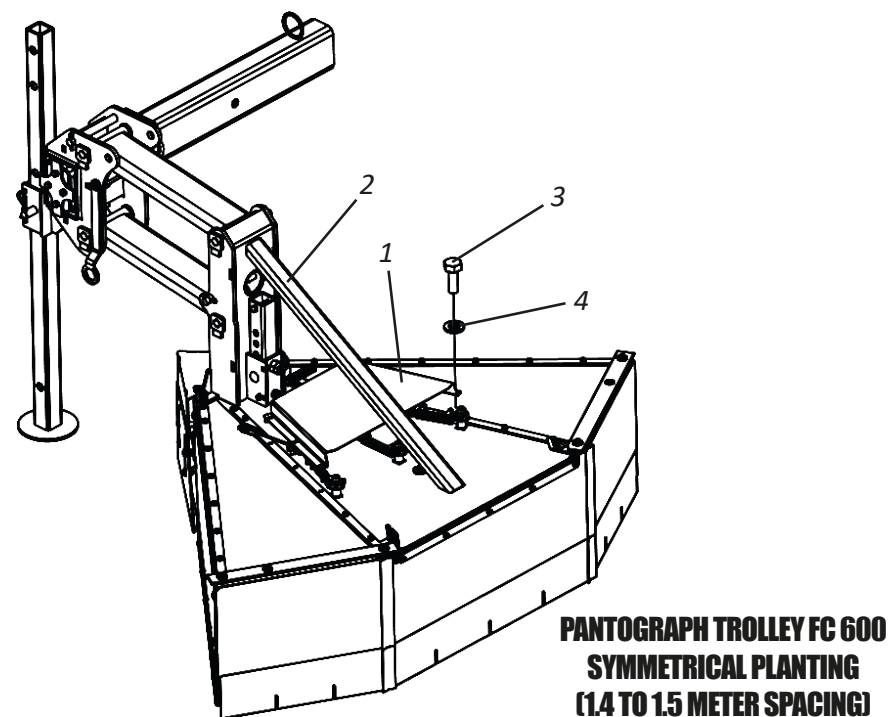
To install the nozzle sensor guard, proceed as follows:

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:

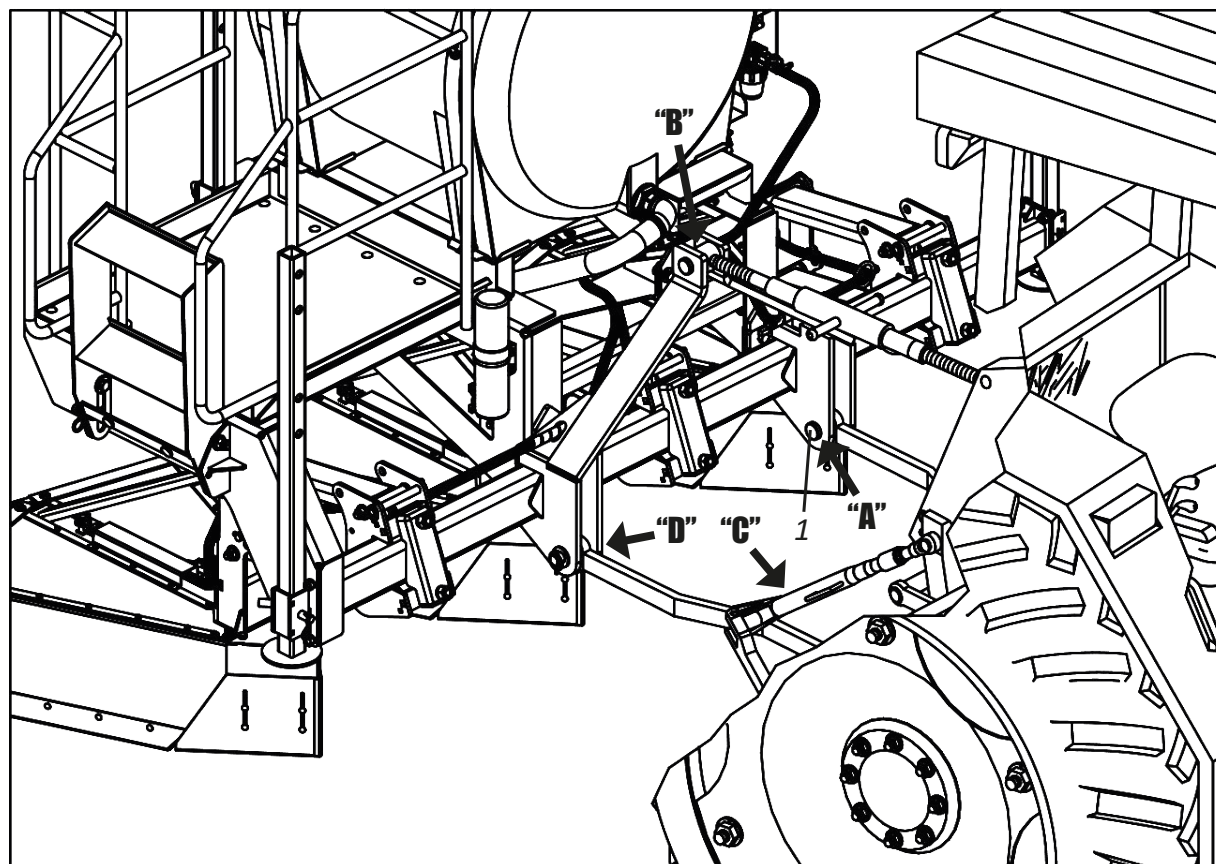
- Check if the tractor is equipped with a set of weights or ballasts on the front or front wheels so as not to lift the tractor. The rear wheels will give the tractor greater stability and traction on the ground.
- Adjust the eyebolt on the tractor's lower links.

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.

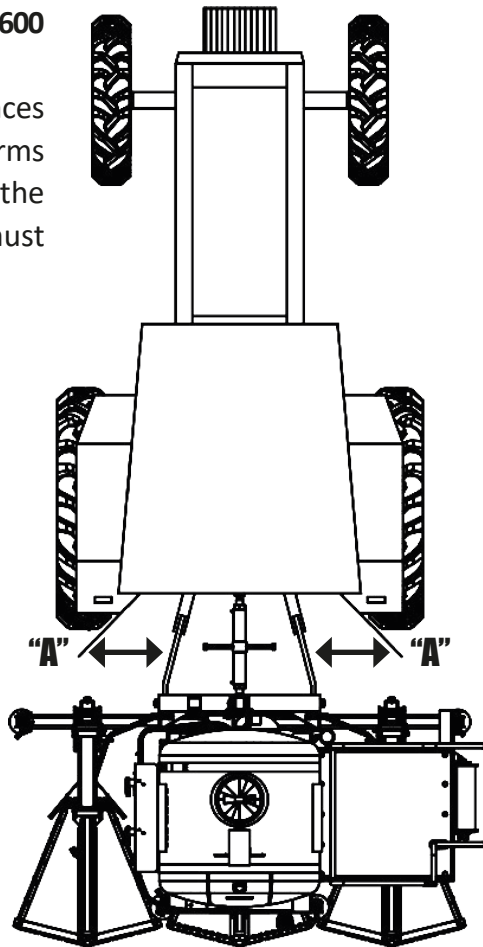


▪ Hitch

• Centralization

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

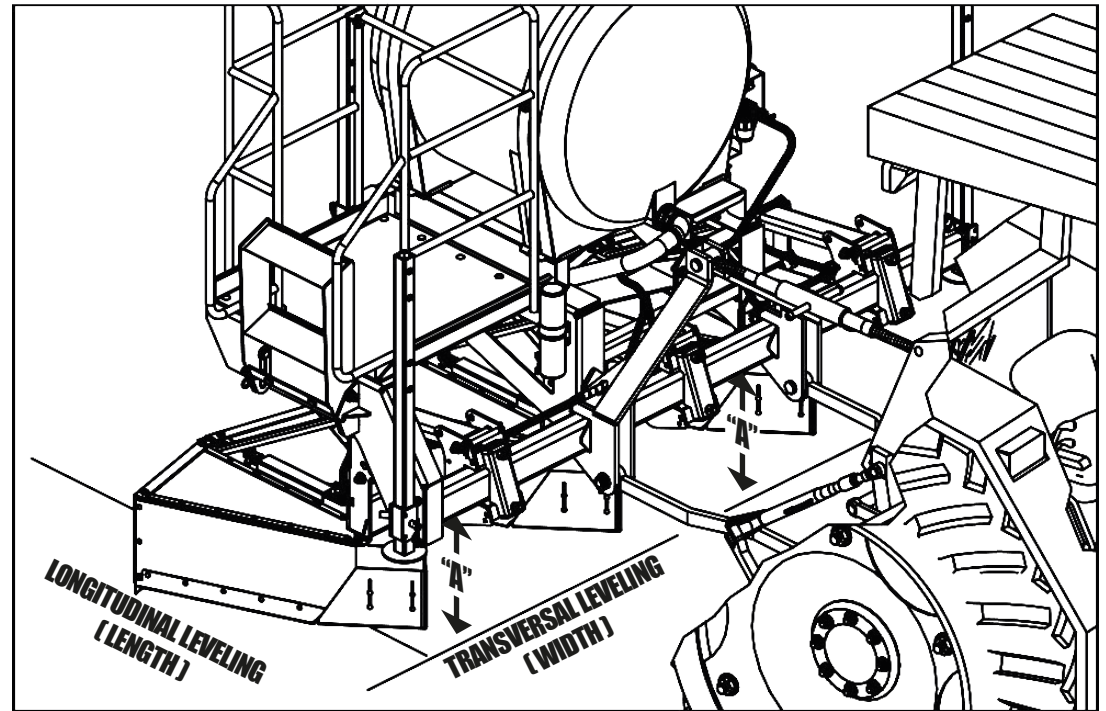
- 01** - Align the upper hitch of the **FC 600** as the 3rd point of the tractor.
- 02** - Next, check that the distances "A" of the lower hydraulic arms are equal to the tires of the tractor. The lower arms must be level with each other.



• 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.

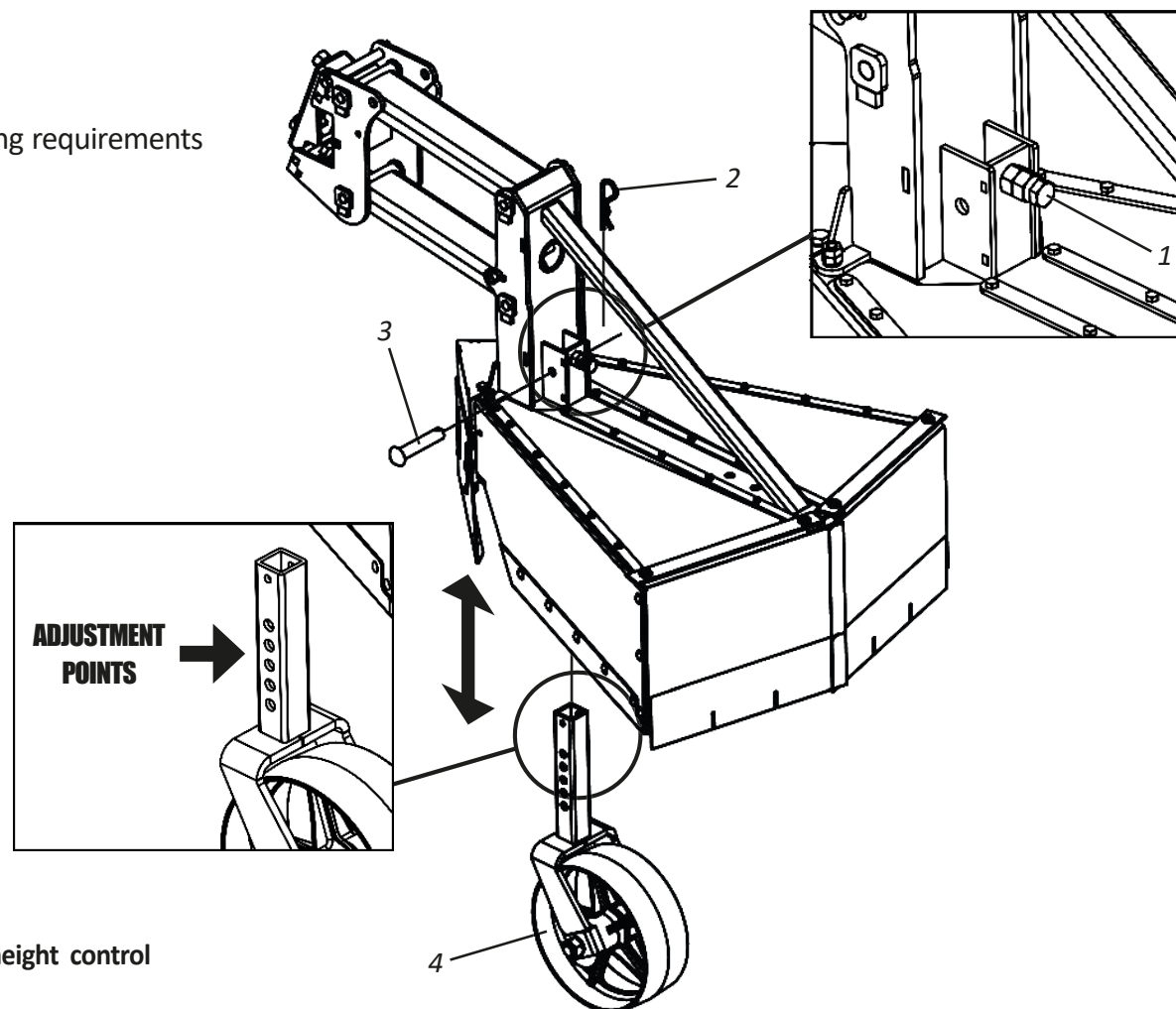


▪ Adjustments

• 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).



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

▪ Adjustments

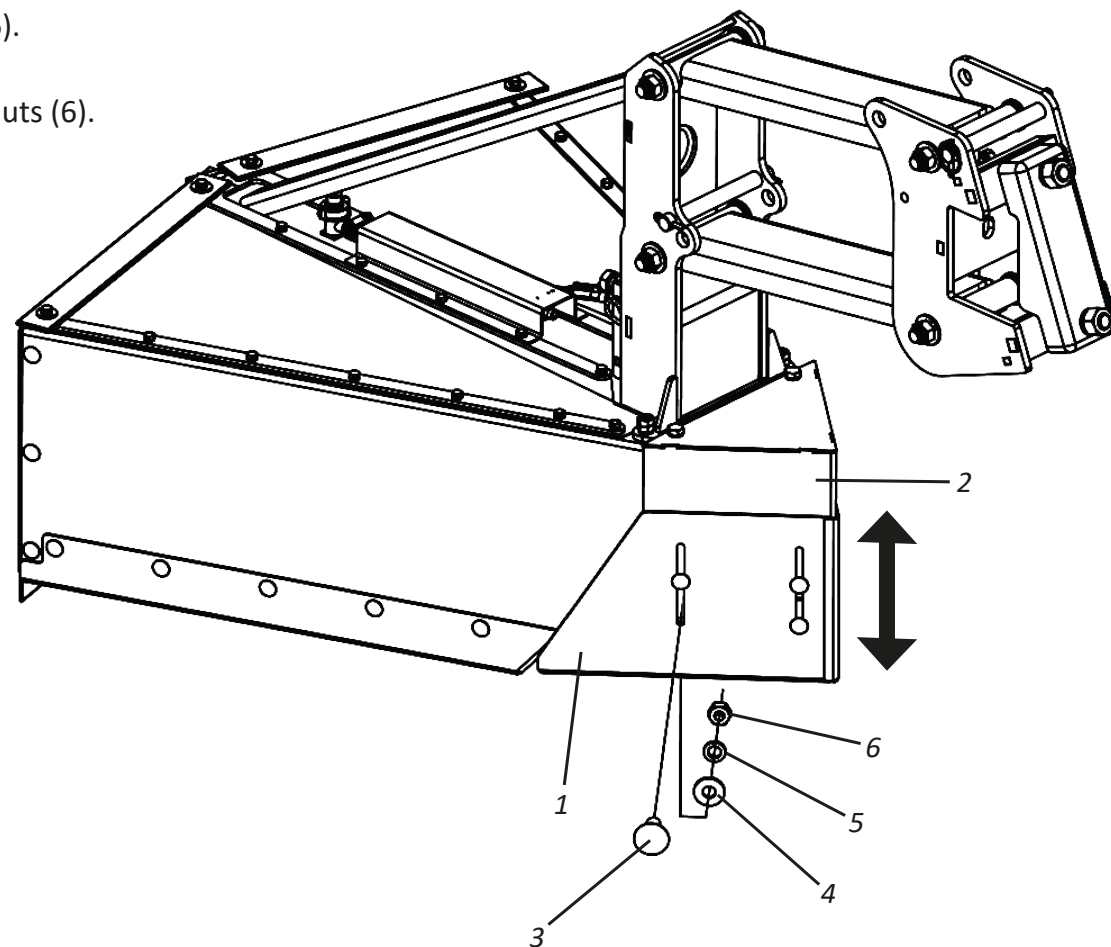
• Trolley front support plate adjustment

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.

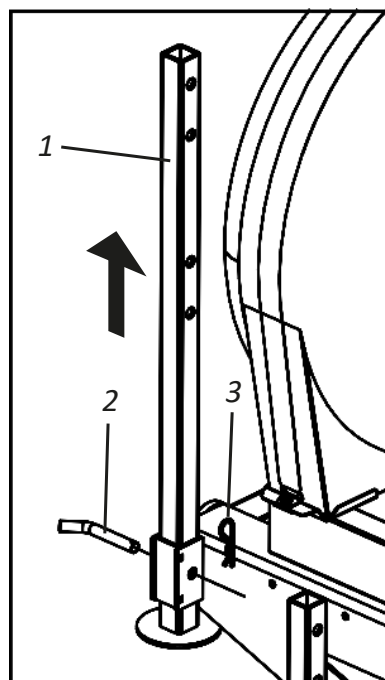
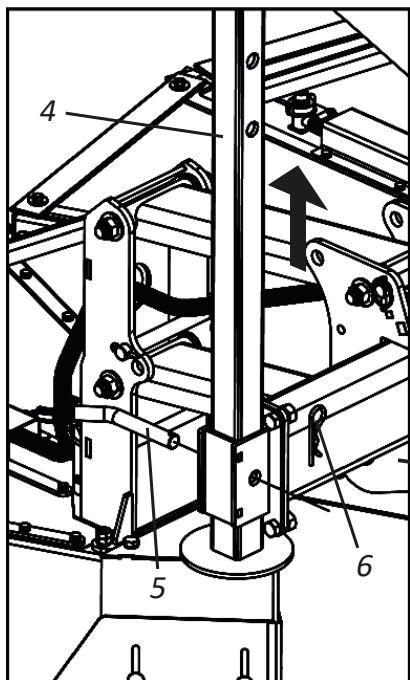
▪ Transportation/Work

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

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

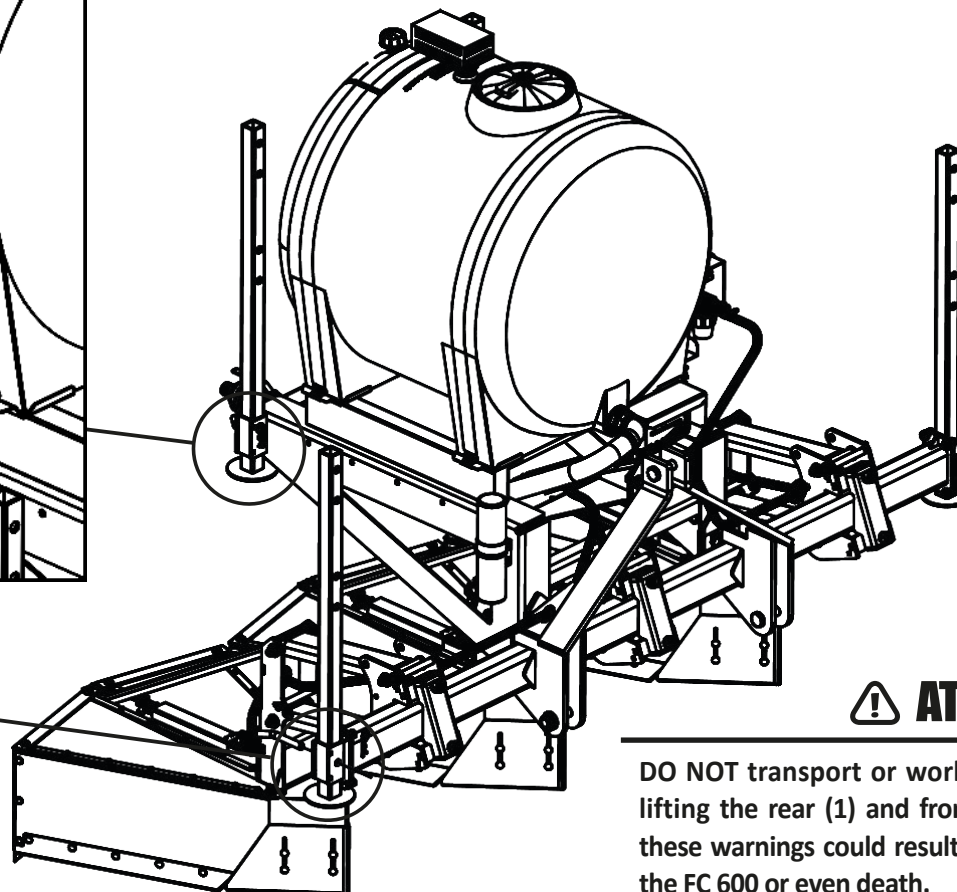
⚠ IMPORTANT

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

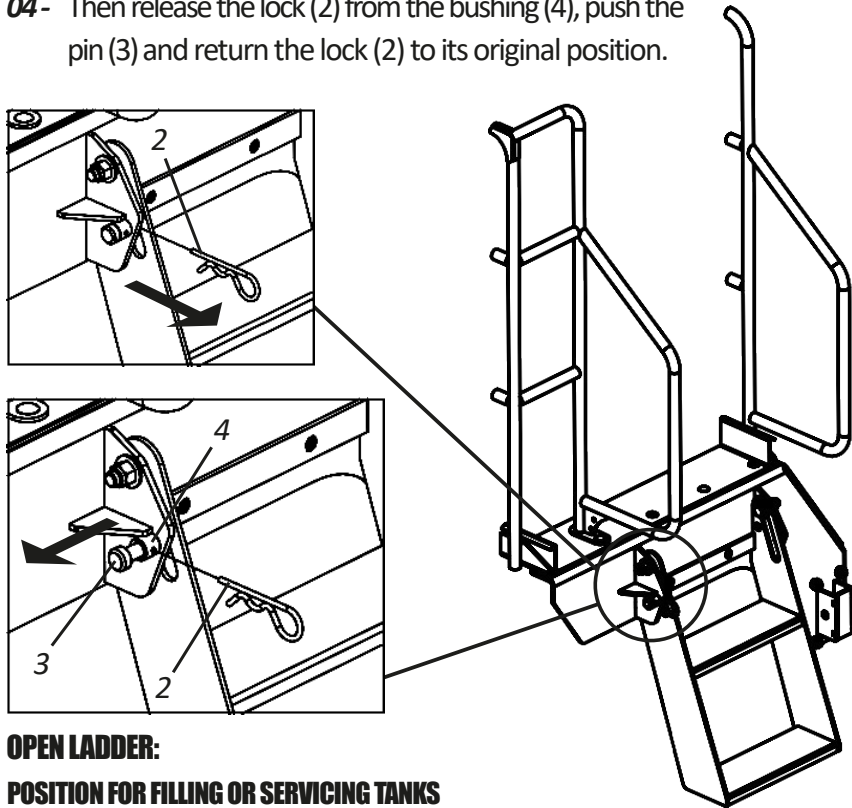
DO NOT transport or work with the FC 600 without first lifting the rear (1) and front (4) support brackets. Ignoring these warnings could result in serious accidents, damage to the FC 600 or even death.

■ 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:

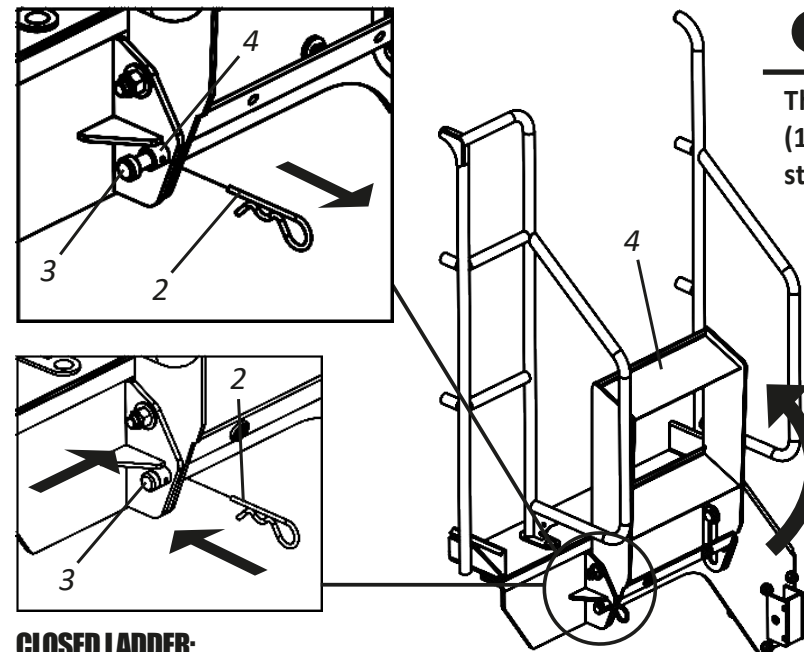
- 01** - First release the lock (2).
- 02** - Then pull the pin (3) and place the lock (2) on the bushing (4).
- 03** - Then position the ladder (1).
- 04** - Then release the lock (2) from the bushing (4), push the pin (3) and return the lock (2) to its original position.



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.

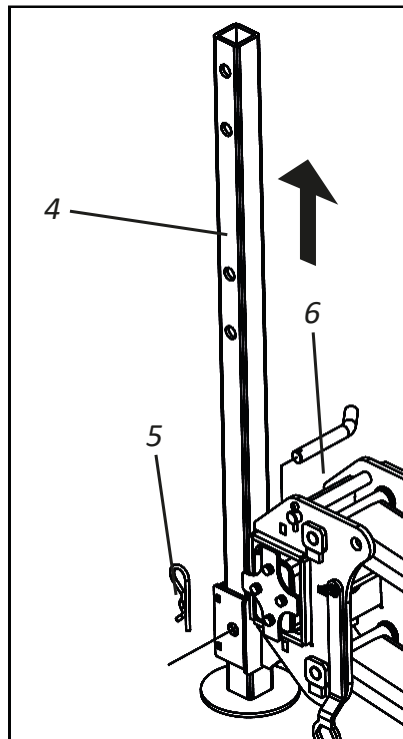
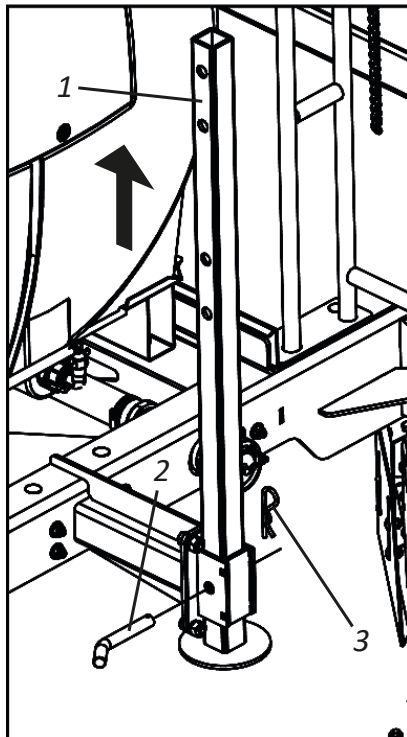
■ Transportation/Work

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

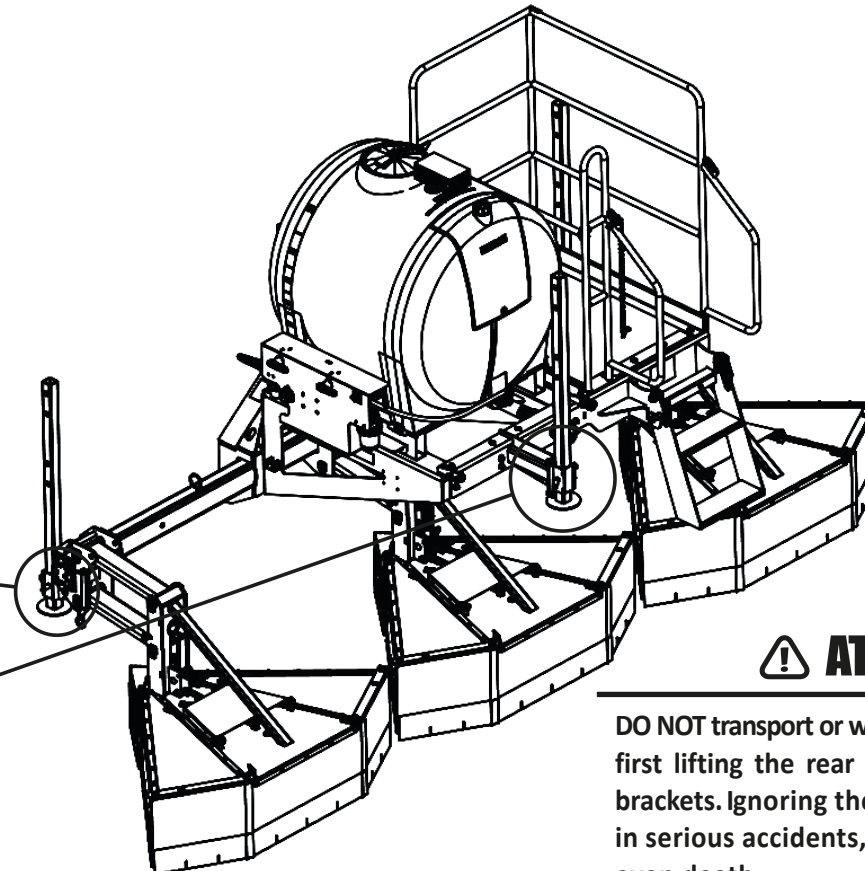
Before transporting or working with **FC 600** (symmetrical planting spacing of 1.4 to 1.5 meters), proceed as follows:

❗ 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

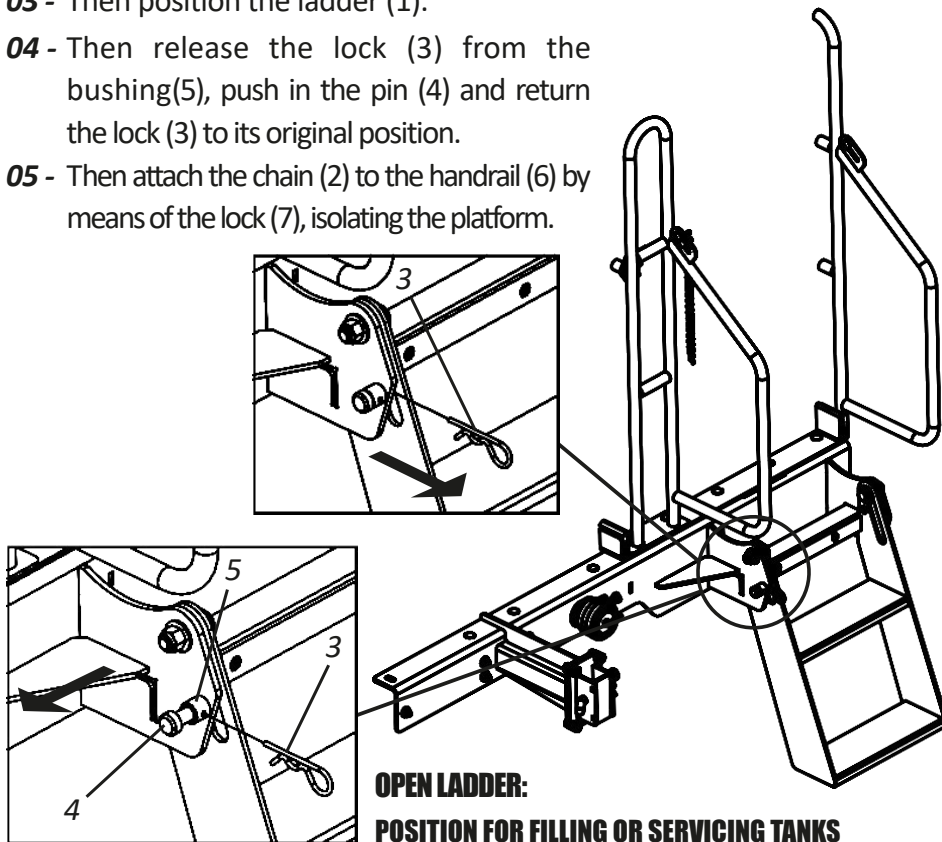
DO NOT transport or work with the FC 600 without first lifting the rear (1) and front (4) support brackets. Ignoring these warnings could result in serious accidents, damage to the FC 600 or even death.

■ Transportation/Work

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

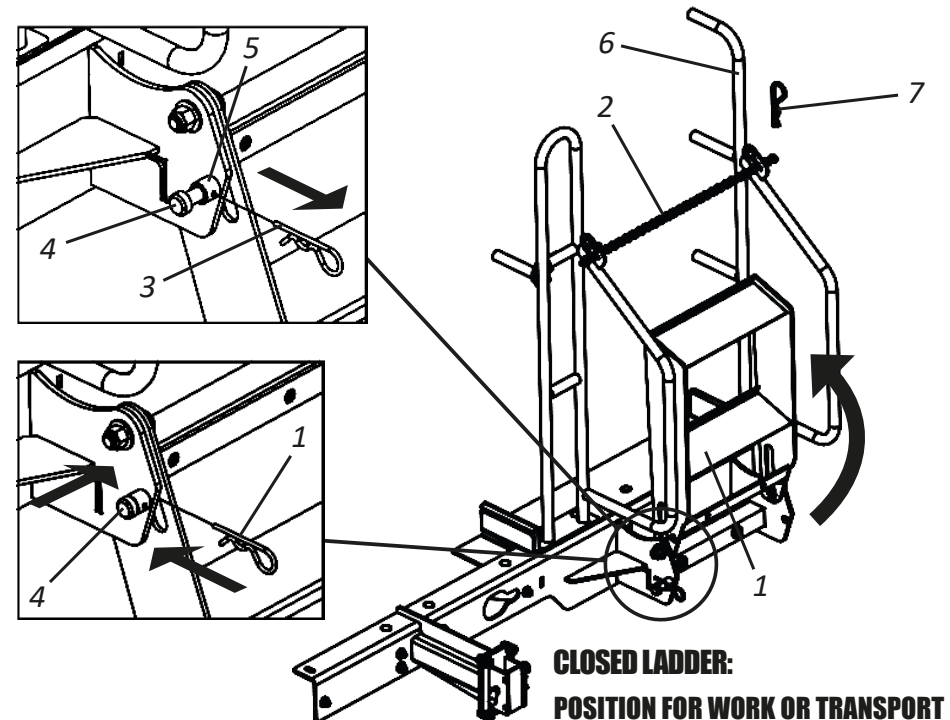
The **FC 600** (symmetrical planting spacing 1.4 to 1.5 meters) has a hinged ladder (1) and a chain (2) which should only be used when filling or servicing the syrup and clean water tanks. To use them, proceed as follows:

- 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

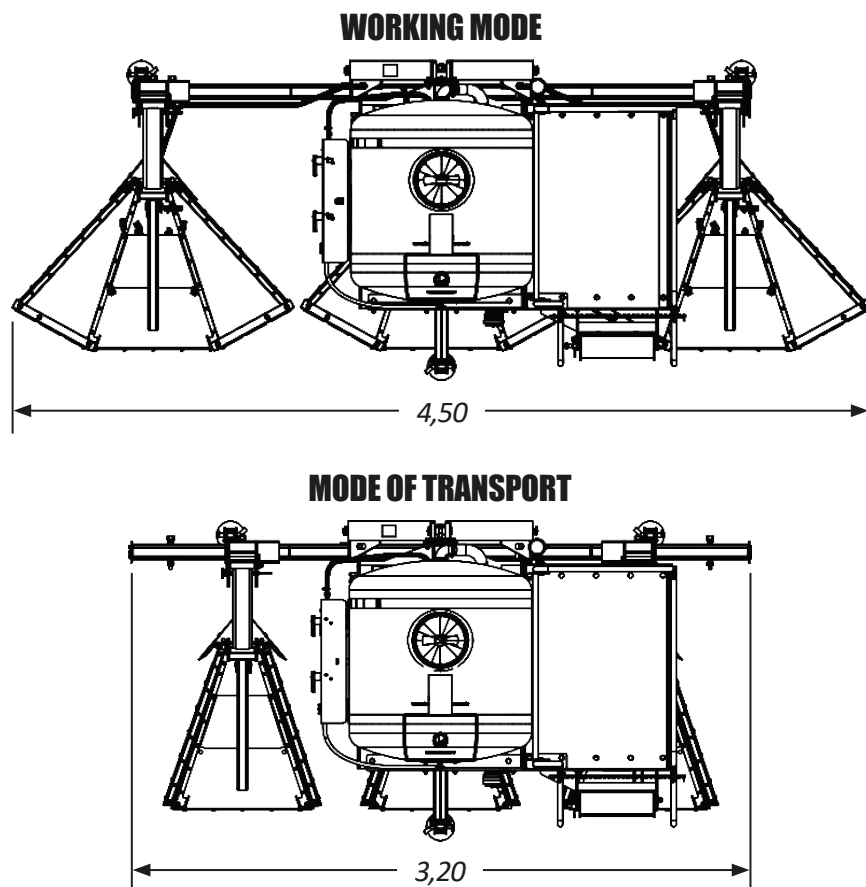
Do not stand on the ladder when the FC 600 is working or being transported.
Do not operate or transport the FC 600 with the ladder open.
Do not operate or transport the FC 600 with the chain unlocked.
Do not transport people on the platform, ladder or any other part of the FC 600.
Ignoring these warnings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



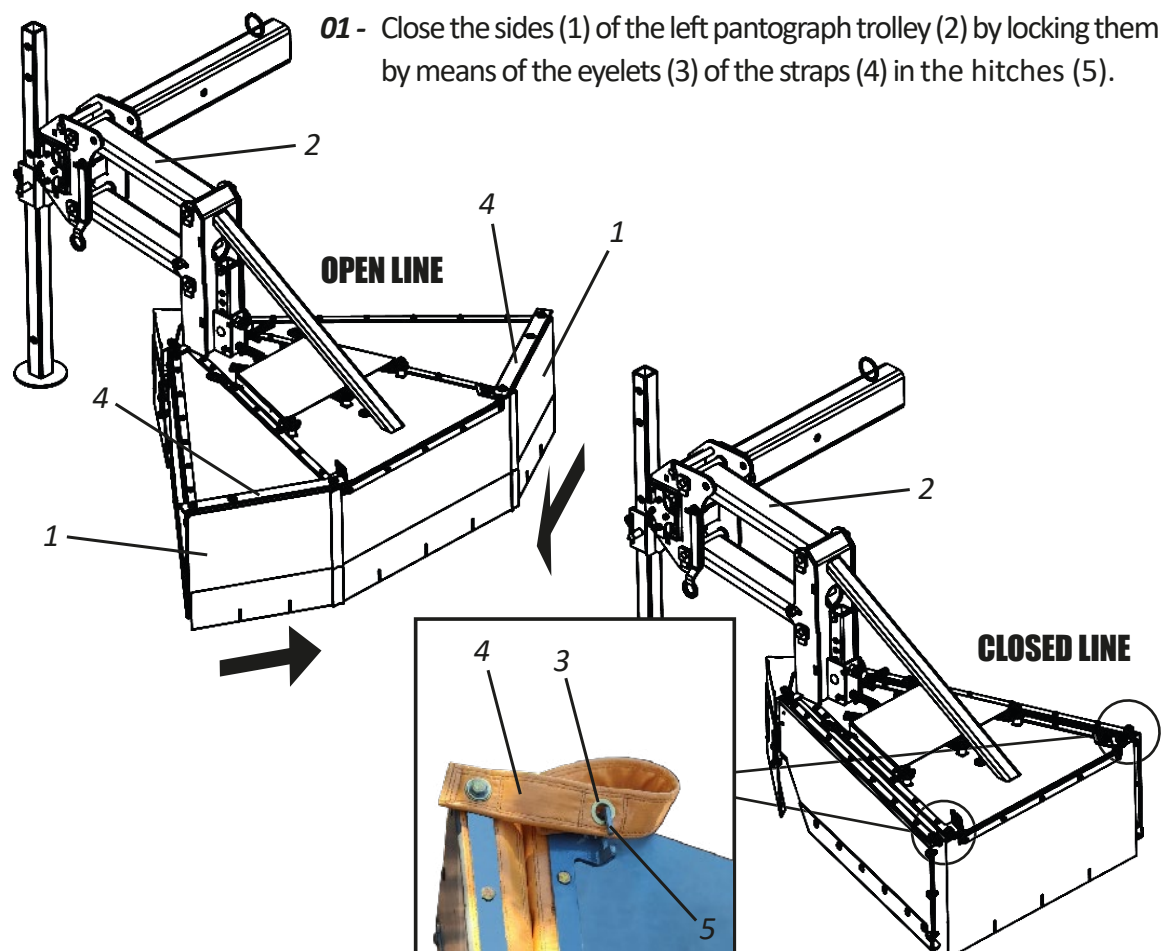
■ Transportation

• 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:



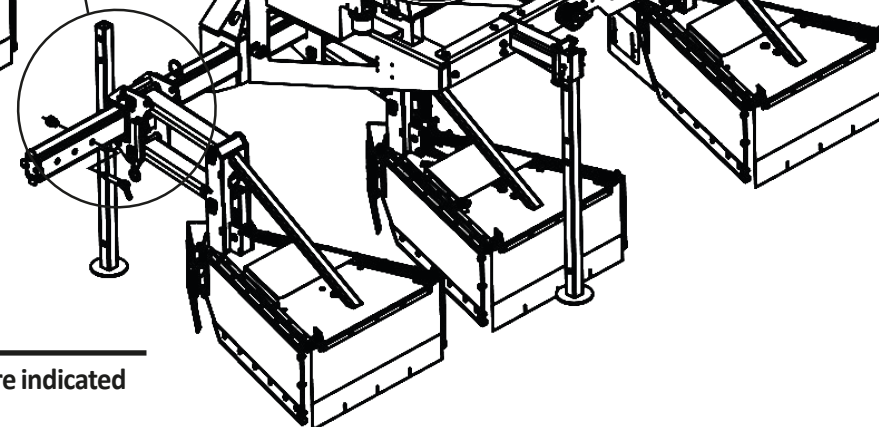
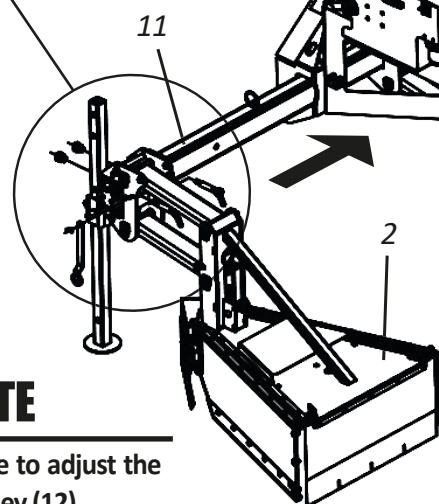
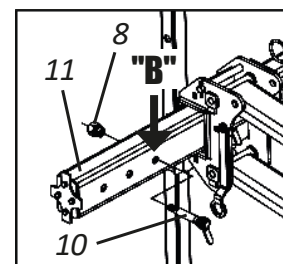
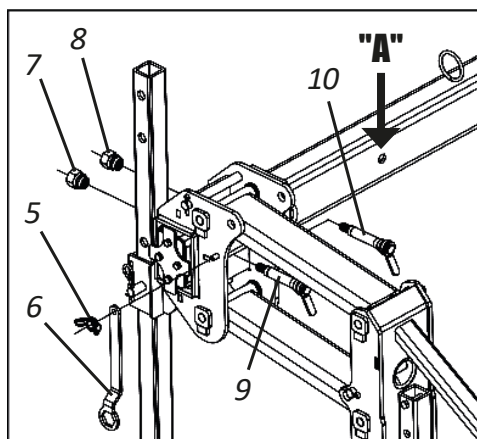
■ Transportation

• 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

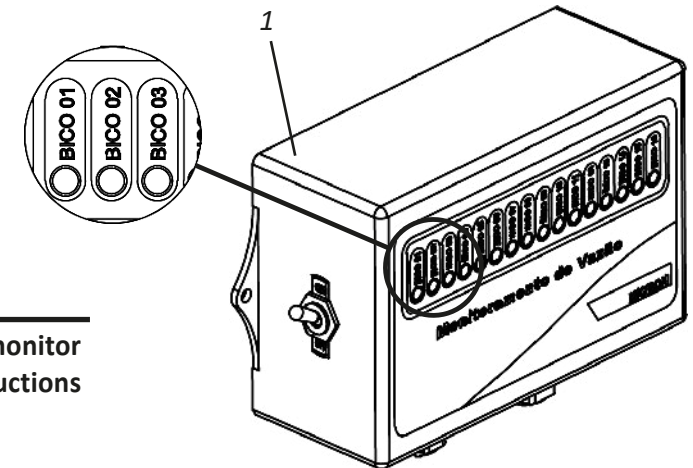
The flow monitor (1) does not control the system's flow, it only monitors it. The flow monitor (1) must be installed on the tractor.

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

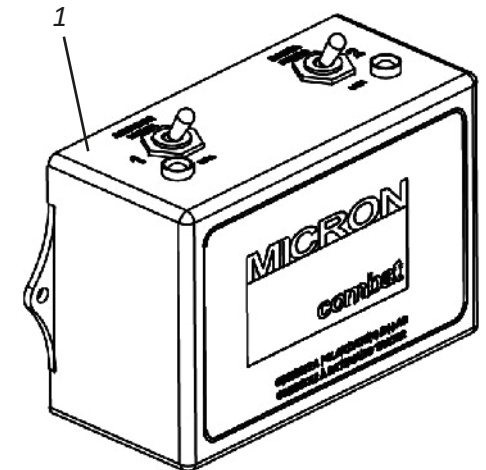
The **FC 600** has an agitator and pump control panel (1) which is used to start the system (agitator and pump).

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.



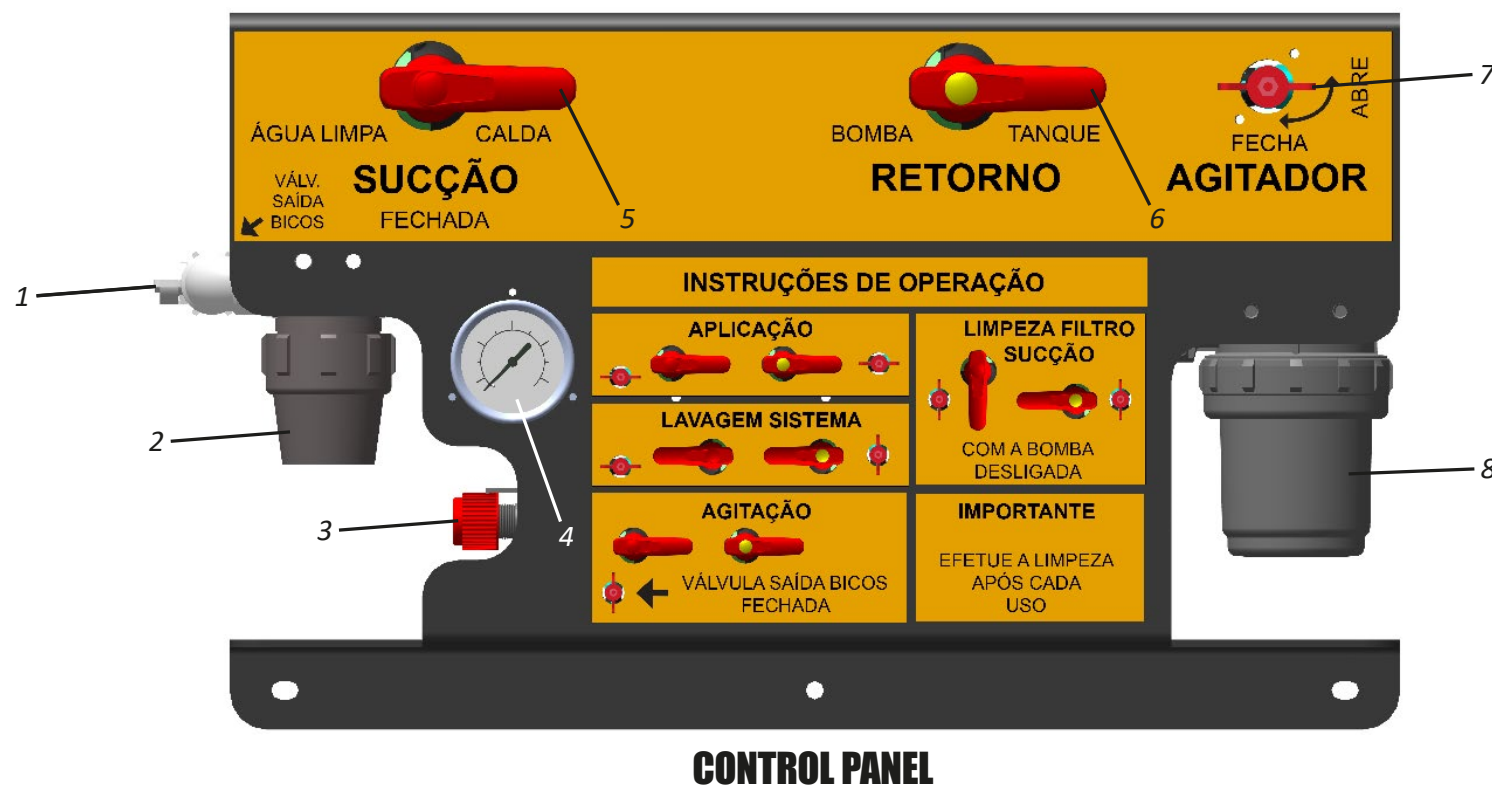
▪ Systems

• 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

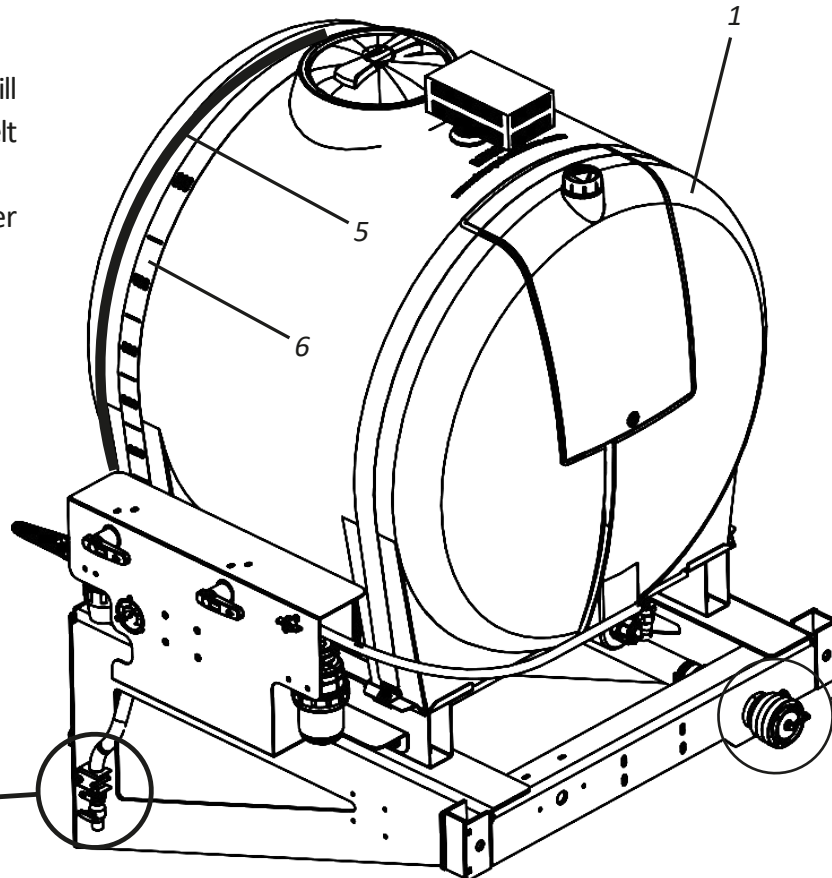
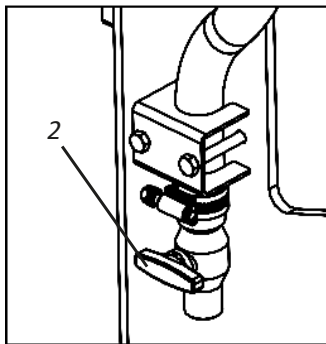
• Filling the 600 liter tank - Syrup

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

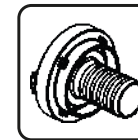
- 01** - Close the damper (2) if it is open.
- 02** - Then remove the cap (3), open the damper (4) and fill up, observing the level hose (5) and the marking belt in liters (6).
- 03** - When you have finished filling, close the damper (4) and replace the cap (3).

NOTE

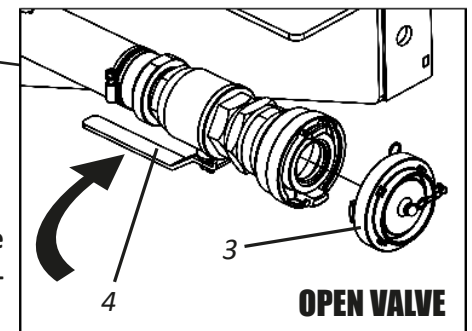
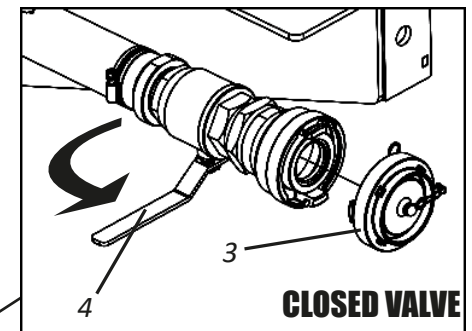
Once the 600-liter tank (1) has been filled, fill the 30-liter tank (clean water) according to the following page.



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.

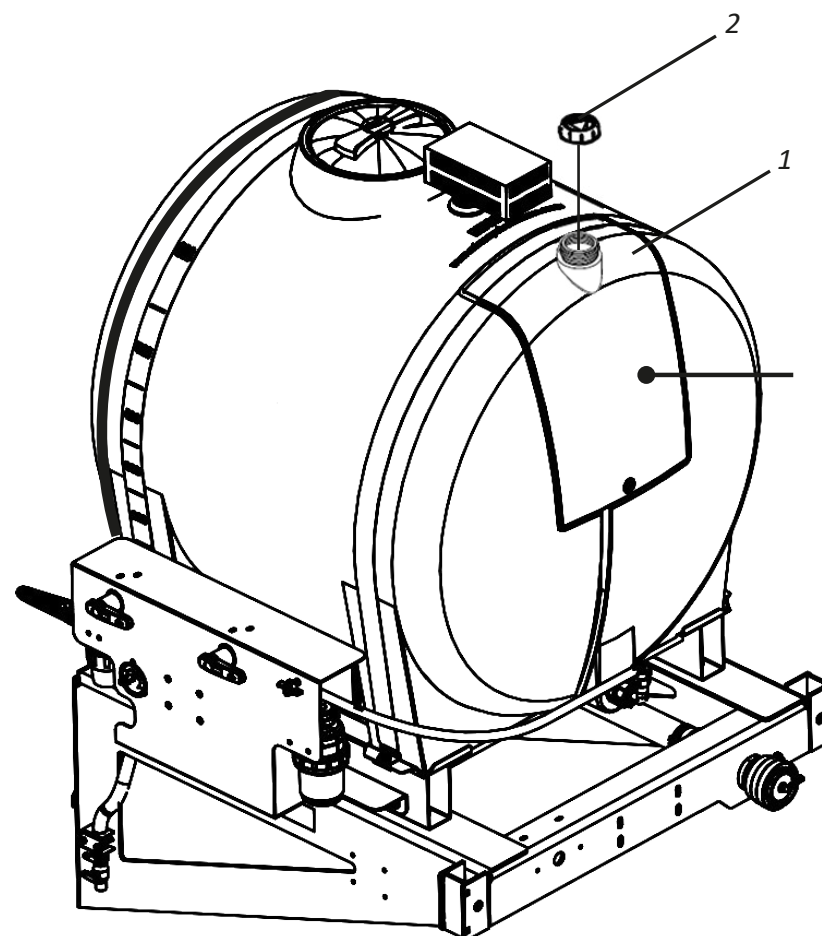
03 - When you have finished filling up, put the cover back on (2).

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

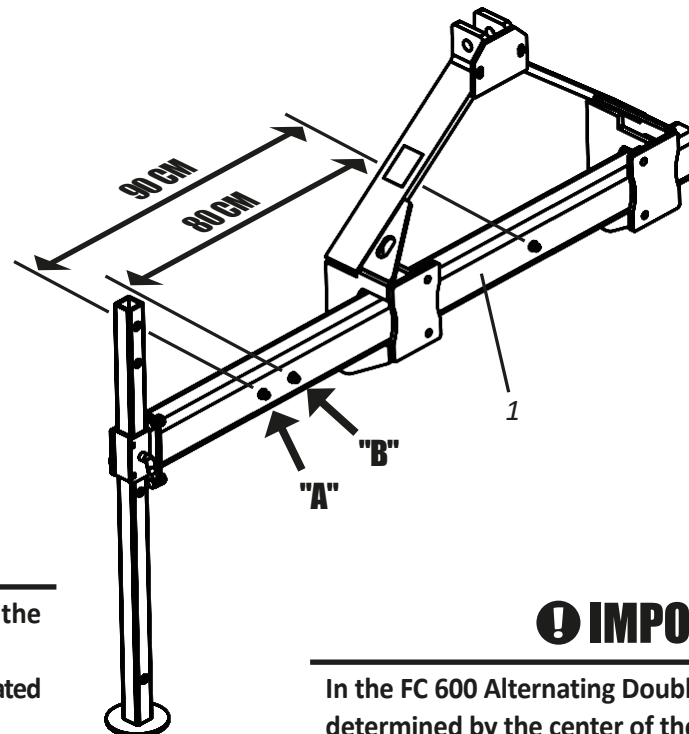
COR BICO	Pressão		DMV	Vazão (LPM)	Taxa de Aplicação L/ha (km/h)										
	BAR	PSI			4	5	6	7	8	10	12	14	16	18	20
XP AIR 015 #100	2,1	30	MG	0,49	82	65	54	47	41	33	27	23	20	20	16
	3,1	45	G	0,60	100	80	67	57	50	40	33	29	25	25	20
	4,1	60	M	0,7	117	93	78	67	58	47	39	33	29	29	23
	6,9	100	M	0,9	150	120	100	86	75	60	50	43	38	38	30
XP AIR 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 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).

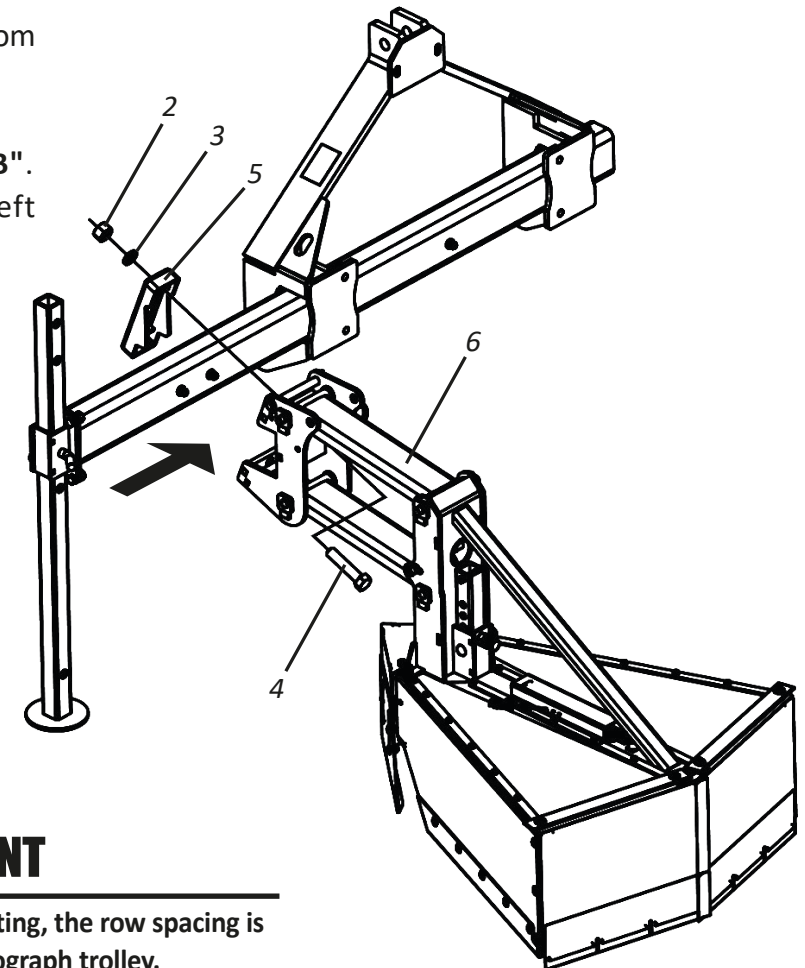


NOTE

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.

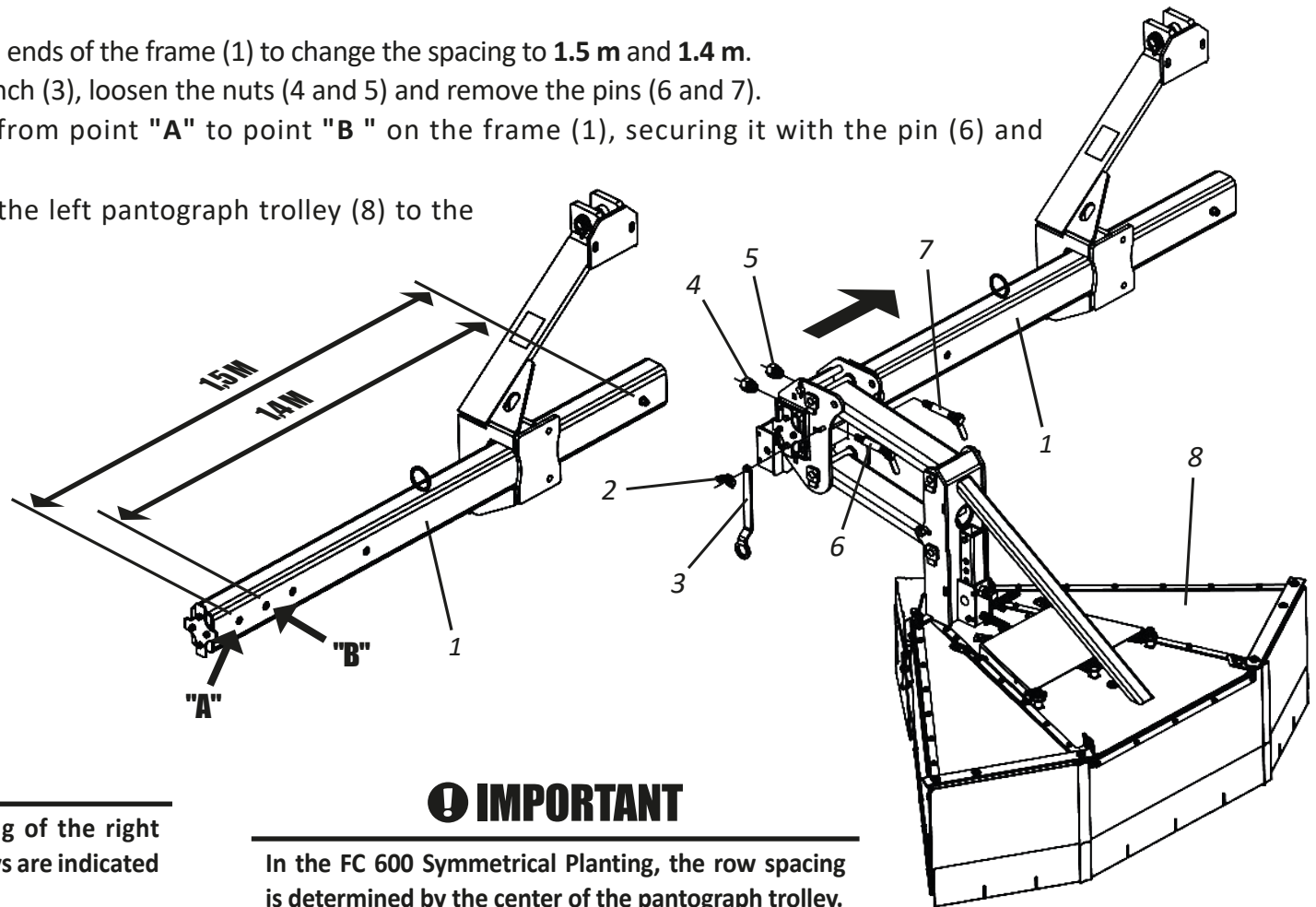


▪ Work

• 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

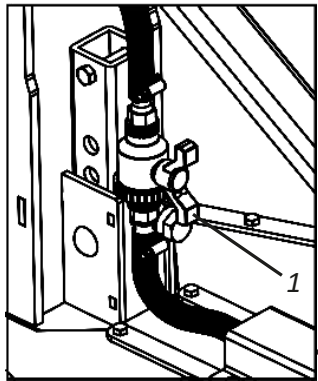
In the FC 600 Symmetrical Planting, the row spacing is determined by the center of the pantograph trolley.

▪ Work

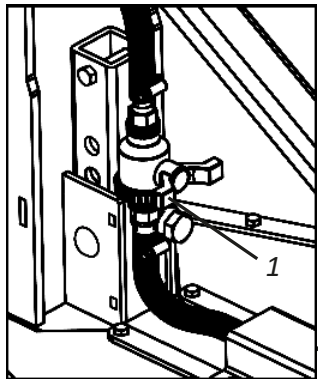
• Row spacing adjustment - 160 cm and 180 cm

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:

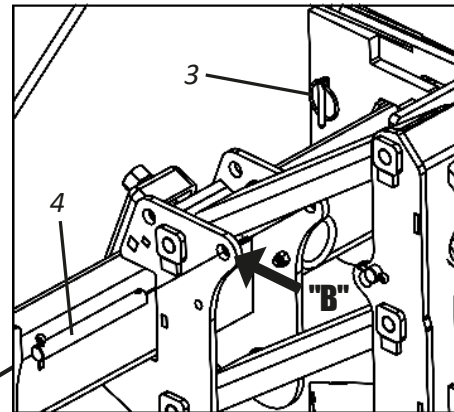
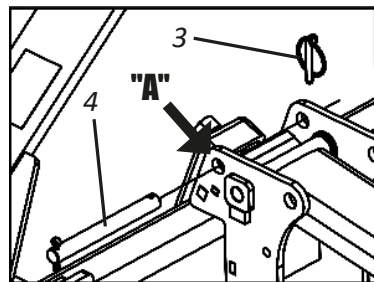
01 - Close the valve (1) of the center line (2).



OPEN VALVE

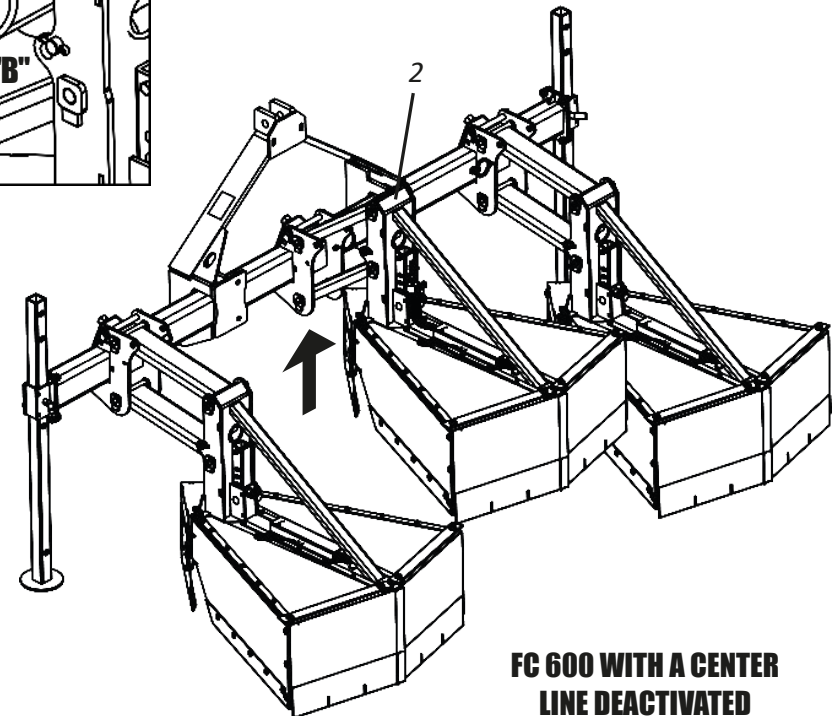


CLOSED VALVE



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).



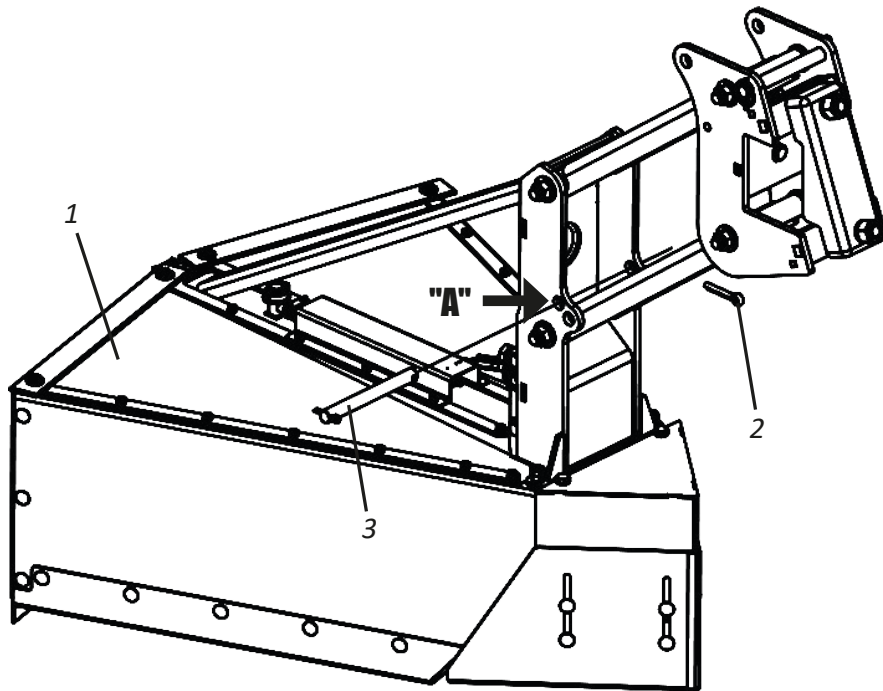
FC 600 WITH A CENTER LINE DEACTIVATED

▪ Work

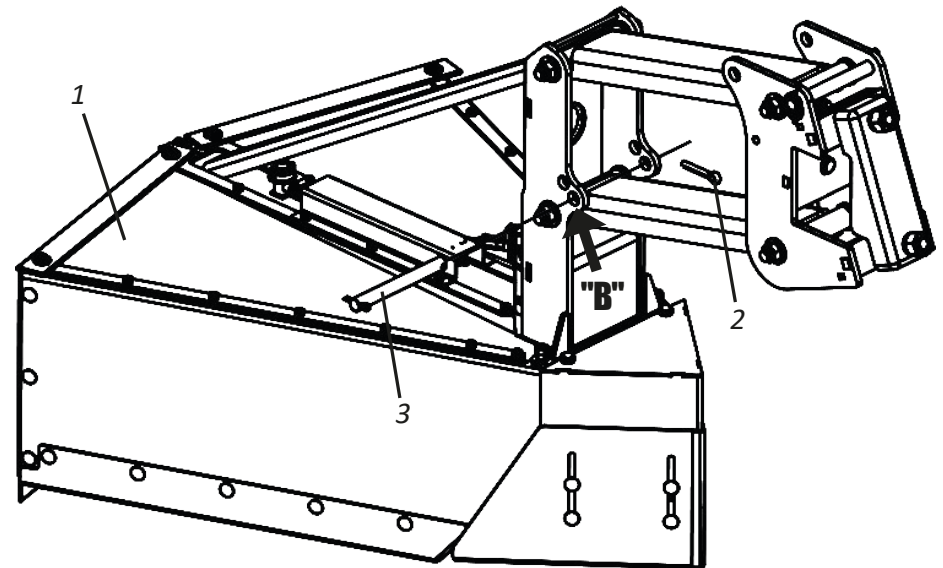
• Adjusting the trolley pantograph

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

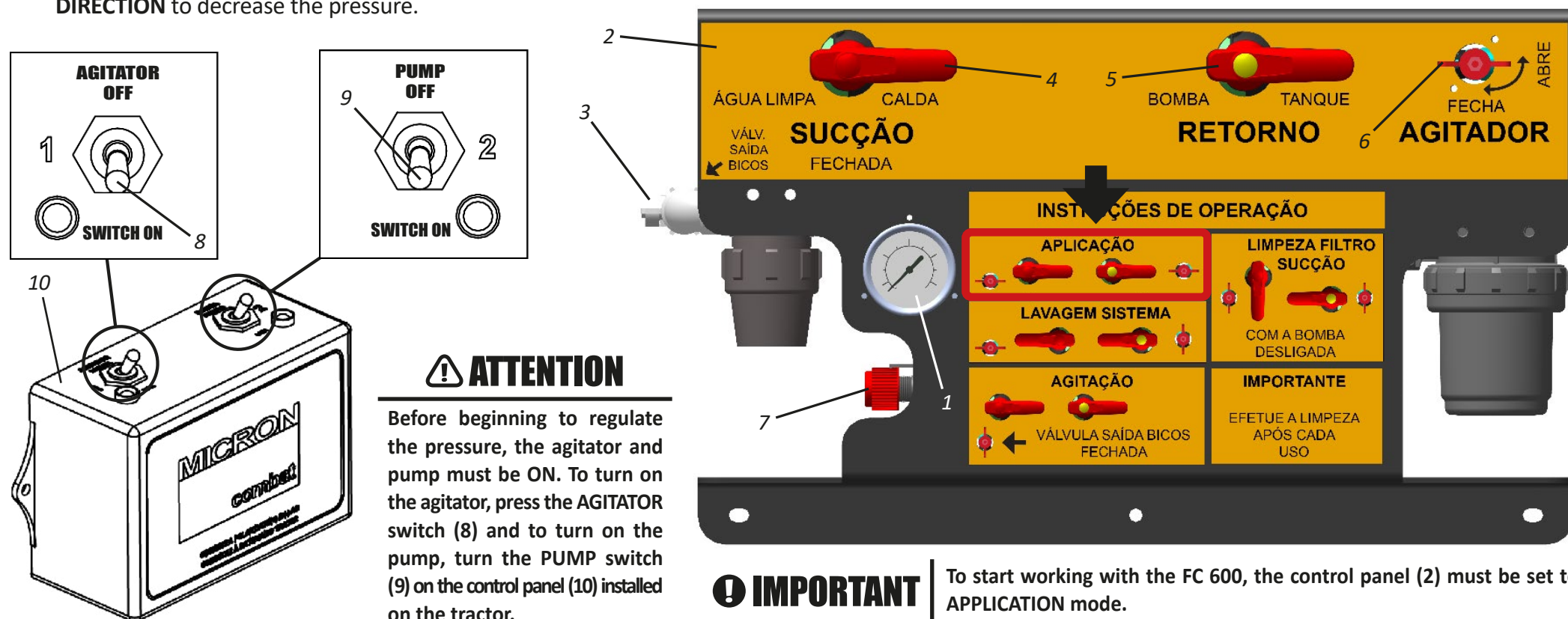
• Pressure regulation (BAR)

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

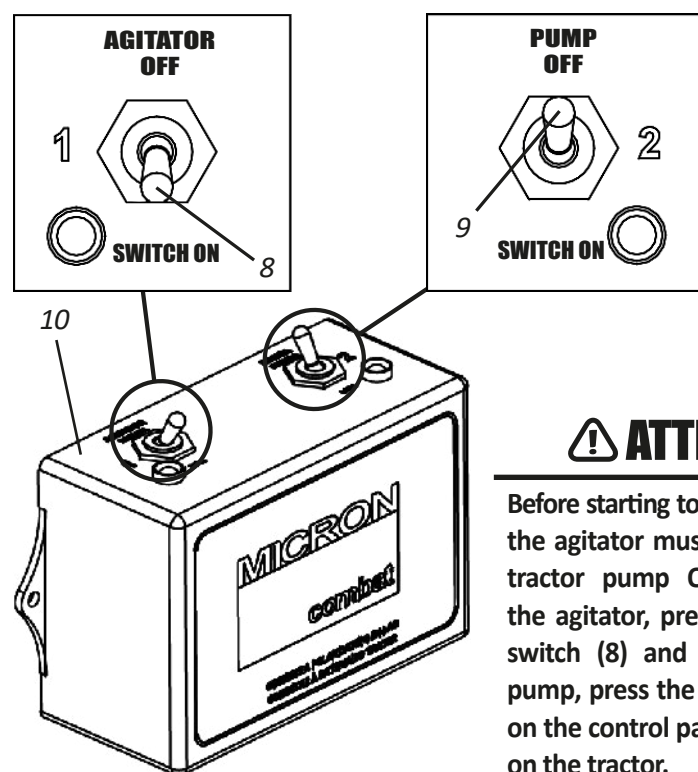
• System flushing settings - Part I

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

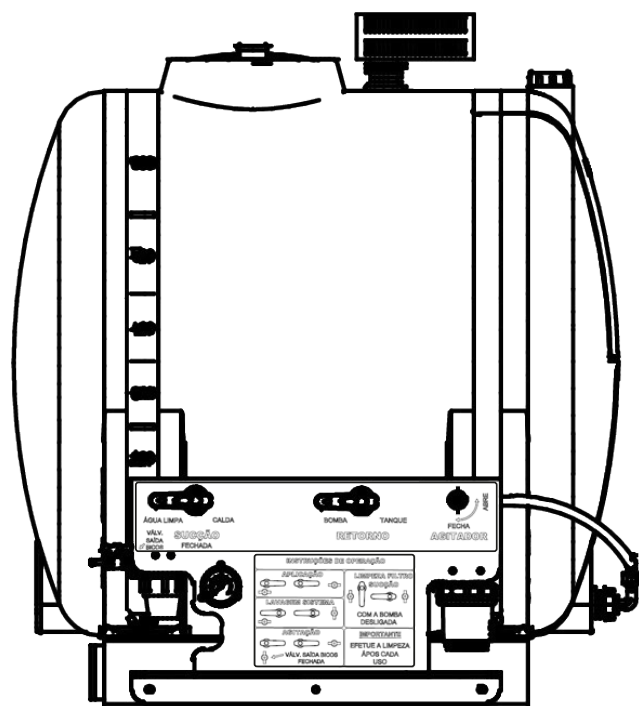
Before starting to flush the system, the agitator must be ON and the tractor pump OFF. To turn on the agitator, press the AGITATOR switch (8) and to turn off the pump, press the PUMP switch (9) on the control panel (10) installed on the tractor.



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.

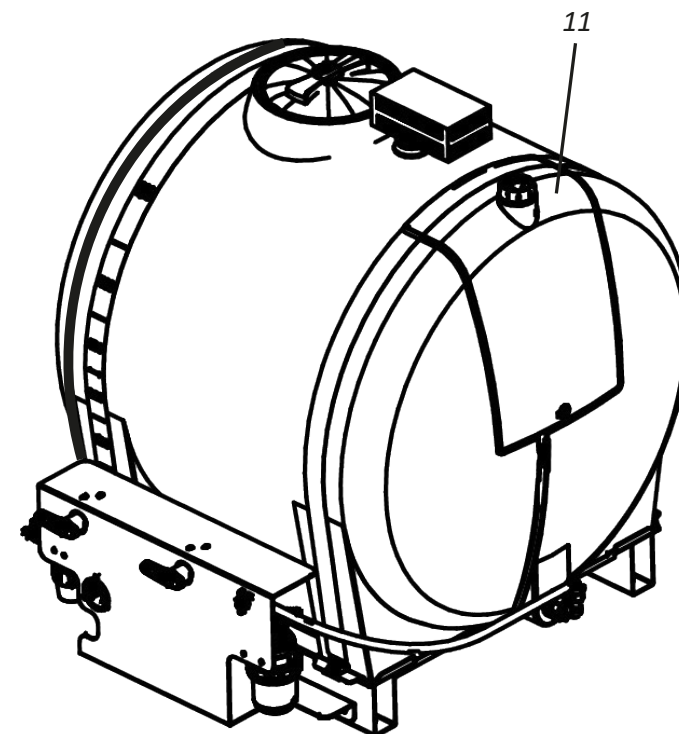


IMPORTANT

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

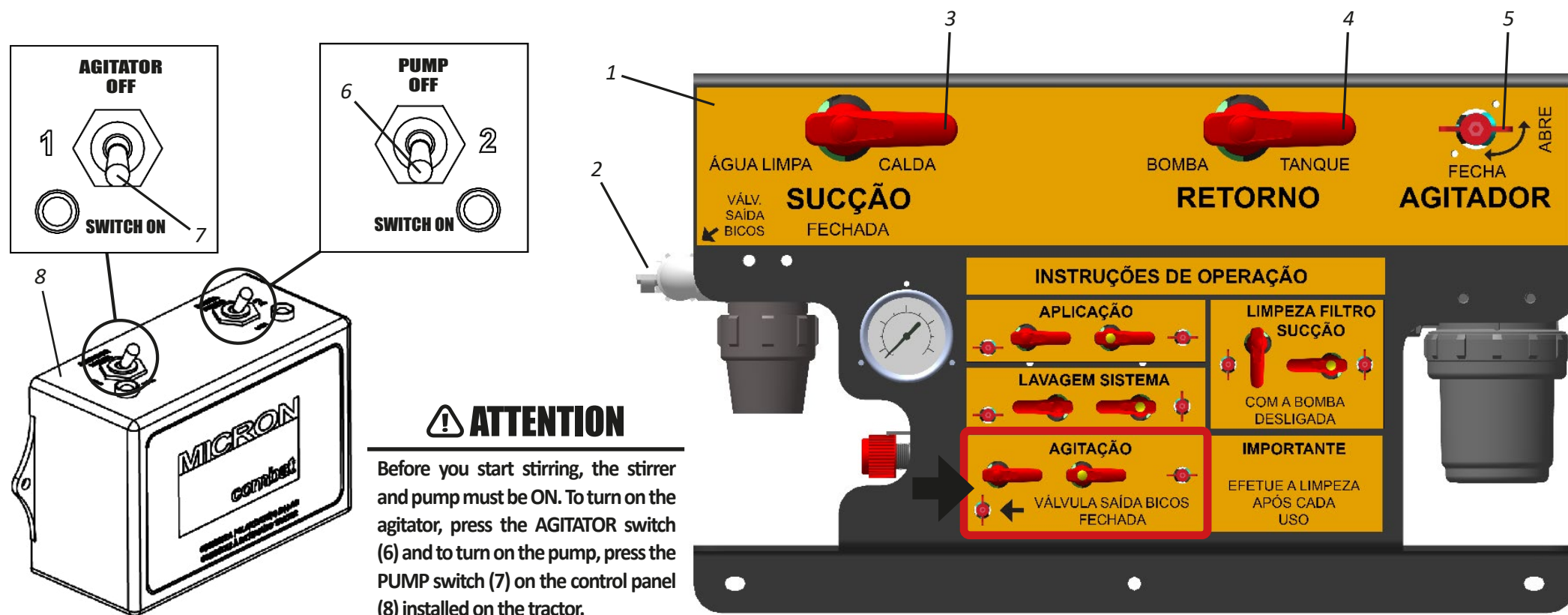
• Adjustment for Stirring

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

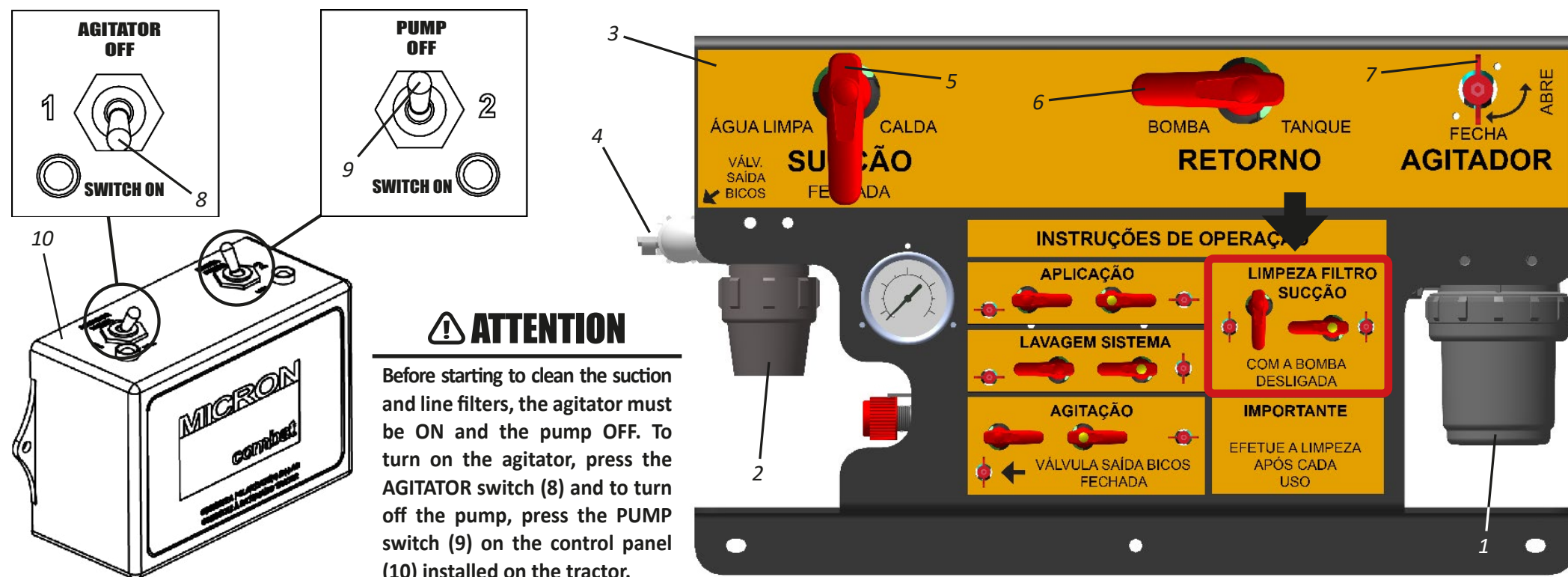
• Adjustment for cleaning suction and line filters - Part I

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:

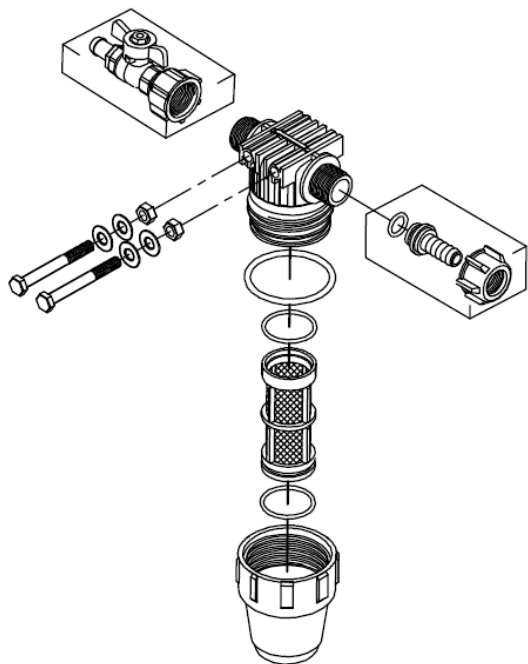


▪ Work

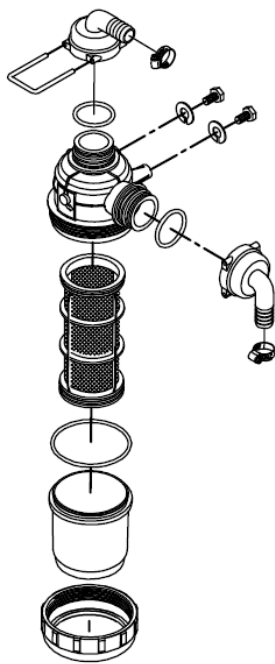
• Adjustment for cleaning suction and line filters - Part II

- 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




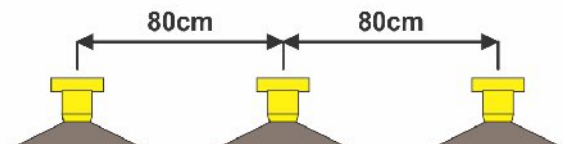
SUCTION FILTER



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


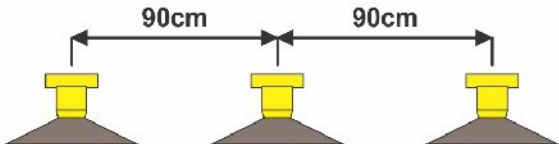
- XP AIR nozzles table - 80 cm row spacing

					ESPAÇAMENTO ENTRE LINHAS - 80CM 										
FC 600 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 AIR 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 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 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


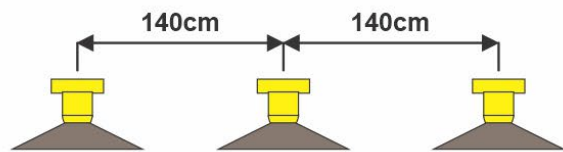
- XP AIR nozzles table - 90 cm row spacing

					ESPAÇAMENTO ENTRE LINHAS - 90CM 										
FC 600 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 AIR 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 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 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


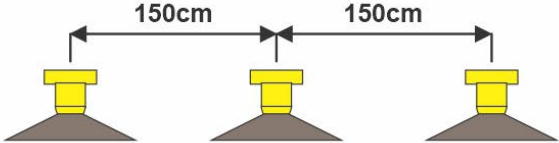
					2 BICOS / ESPAÇAMENTO ENTRE LINHAS - 140CM 										
FC 600 Tabela do Aplicador de Herbicida															
COR BICO	Pressão		DMV	Vazão (LPM)	Taxa de Aplicação L/ha (km/h)										
	BAR	PSI			4	5	6	7	8	10	12	14	16	18	20
XP AIR 015 #100	2,1	30	MG	0,49	105	84	70	60	53	42	35	30	26	23	21
	3,1	45	G	0,60	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 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 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


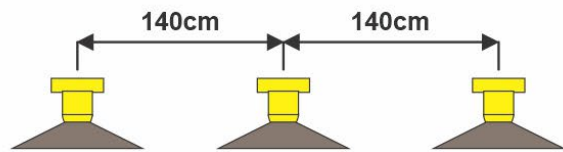
					2 BICOS / ESPAÇAMENTO ENTRE LINHAS - 150CM										
FC 600 Tabela do Aplicador de Herbicida															
COR BICO	Pressão		DMV	Vazão (LPM)	Taxa de Aplicação L/ha (km/h)										
	BAR	PSI			4	5	6	7	8	10	12	14	16	18	20
XP AIR 015 #100	2,1	30	MG	0,49	98	78	65	56	49	39	33	28	25	22	20
	3,1	45	G	0,60	120	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 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 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


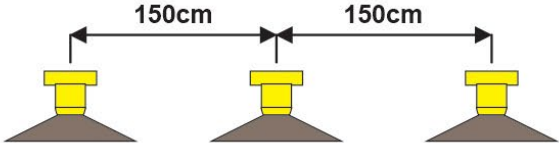
					3 BICOS / ESPAÇAMENTO ENTRE LINHAS - 140CM 										
COR BICO	Pressão		DMV	Vazão (LPM)	Taxa de Aplicação L/ha (km/h)										
	BAR	PSI			4	5	6	7	8	10	12	14	16	18	20
XP AIR 015 #100	2,1	30	MG	0,49	158	126	105	90	79	63	53	45	39	35	32
	3,1	45	G	0,60	193	154	129	110	96	77	64	55	48	43	39
	4,1	60	M	0,7	225	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 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 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


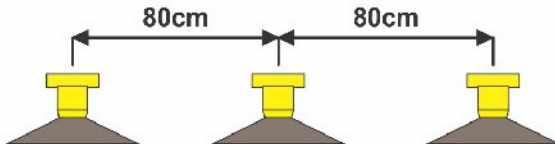
					3 BICOS / ESPAÇAMENTO ENTRE LINHAS - 150CM 										
FC 600 <i>Tabela do Aplicador de Herbicida</i>															
COR BICO	Pressão		DMV	Vazão (LPM)	Taxa de Aplicação L/ha (km/h)										
	BAR	PSI			4	5	6	7	8	10	12	14	16	18	20
XP AIR 015 #100	2,1	30	MG	0,49	147	118	98	84	74	59	49	42	37	33	29
	3,1	45	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 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 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


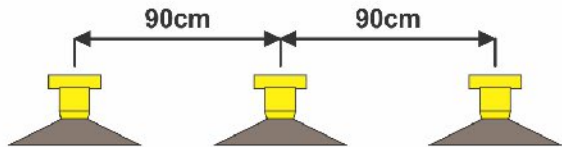
- XP nozzle table - 80 cm row spacing

					ESPAÇAMENTO ENTRE LINHAS - 80CM 										
FC 600 <i>Tabela do Aplicador de Herbicida</i>					Taxa de Aplicação L/ha (km/h)										
COR BICO	Pressão		DMV	Vazão (LPM)	4	5	6	7	8	10	12	14	16	18	20
	BAR	PSI													
XP 015 #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 #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 #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


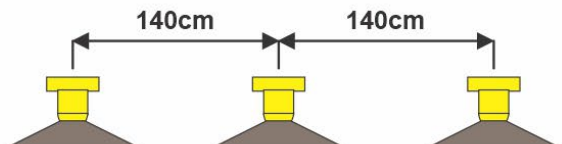
- XP nozzle table - 90 cm row spacing

					ESPAÇAMENTO ENTRE LINHAS - 90CM 										
FC 600 Tabela do Aplicador de Herbicida					Taxa de Aplicação L/ha (km/h)										
COR BICO	Pressão		DMV	Vazão (LPM)	4	5	6	7	8	10	12	14	16	18	20
	BAR	PSI													
XP 015 #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 #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 #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


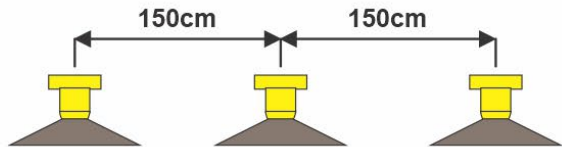
					2 BICOS / ESPAÇAMENTO ENTRE LINHAS - 140CM 										
FC 600 Tabela do Aplicador de Herbicida															
COR BICO	Pressão		DMV	Vazão (LPM)	Taxa de Aplicação L/ha (km/h)										
	BAR	PSI			4	5	6	7	8	10	12	14	16	18	20
XP 015 #100	1	15	M	0,35	75	60	50	43	38	30	25	21	19	17	15
	1,3	20	M	0,40	86	69	57	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


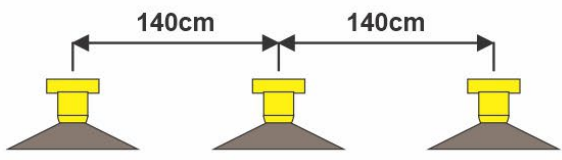
					2 BICOS / ESPAÇAMENTO ENTRE LINHAS - 150CM 										
FC 600 Tabela do Aplicador de Herbicida					Taxa de Aplicação L/ha (km/h)										
COR BICO	Pressão		DMV	Vazão (LPM)											
	BAR	PSI			4	5	6	7	8	10	12	14	16	18	20
XP 015 #100	1	15	M	0,35	70	56	47	40	35	28	23	20	18	16	14
	1,3	20	M	0,40	80	64	53	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


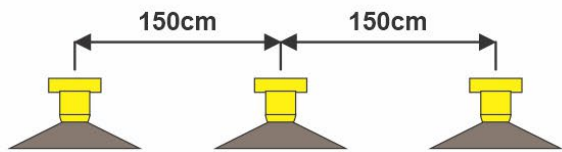
					3 BICOS / ESPAÇAMENTO ENTRE LINHAS - 140CM 										
FC 600 Tabela do Aplicador de Herbicida					Taxa de Aplicação L/ha (km/h)										
COR BICO	Pressão		DMV	Vazão (LPM)	4	5	6	7	8	10	12	14	16	18	20
	BAR	PSI													
XP 015 #100	1	15	M	0,35	113	90	75	64	56	45	38	32	28	25	23
	1,3	20	M	0,40	129	103	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 #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 #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

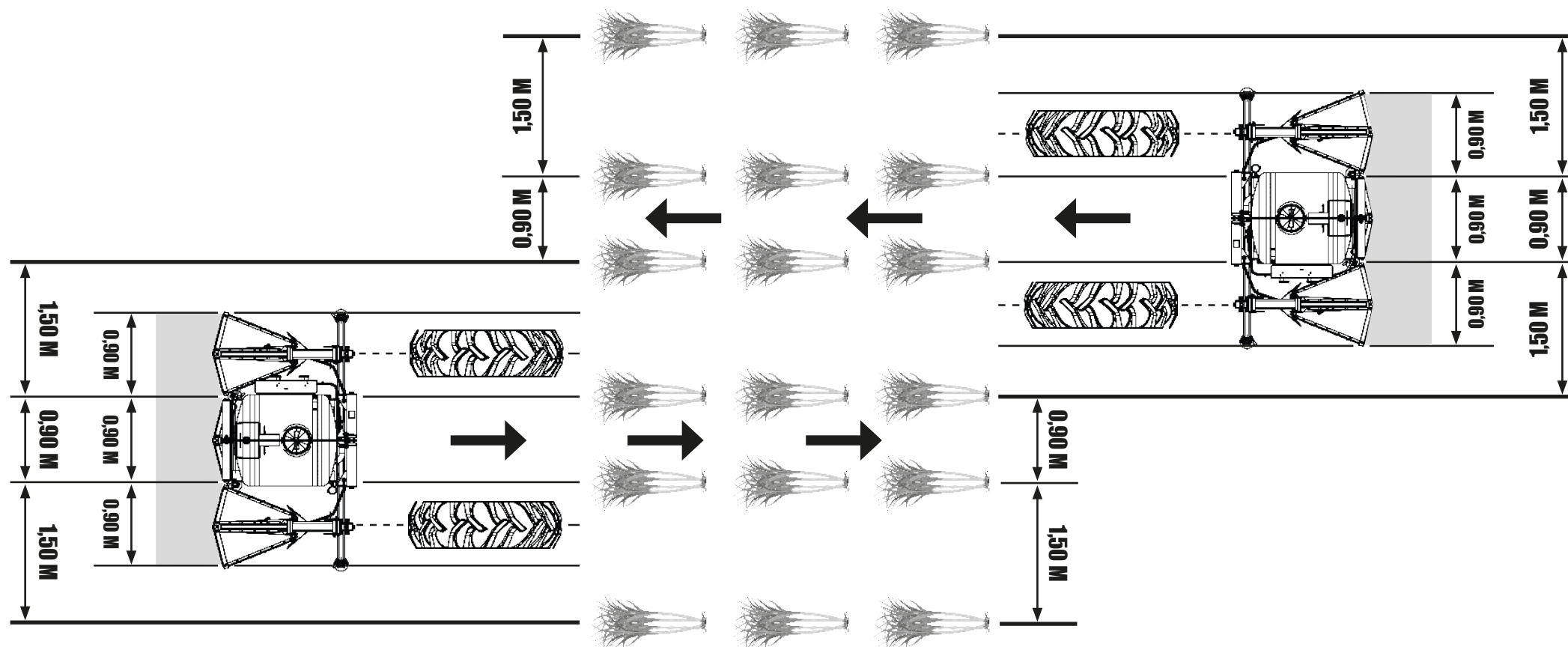
					3 BICOS / ESPAÇAMENTO ENTRE LINHAS - 150CM 										
FC 600 Tabela do Aplicador de Herbicida					Taxa de Aplicação L/ha (km/h)										
COR BICO	Pressão		DMV	Vazão (LPM)											
	BAR	PSI			4	5	6	7	8	10	12	14	16	18	20
XP 015 #100	1	15	M	0,35	105	84	70	60	53	42	35	30	26	23	21
	1,3	20	M	0,40	120	96	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 #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 #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

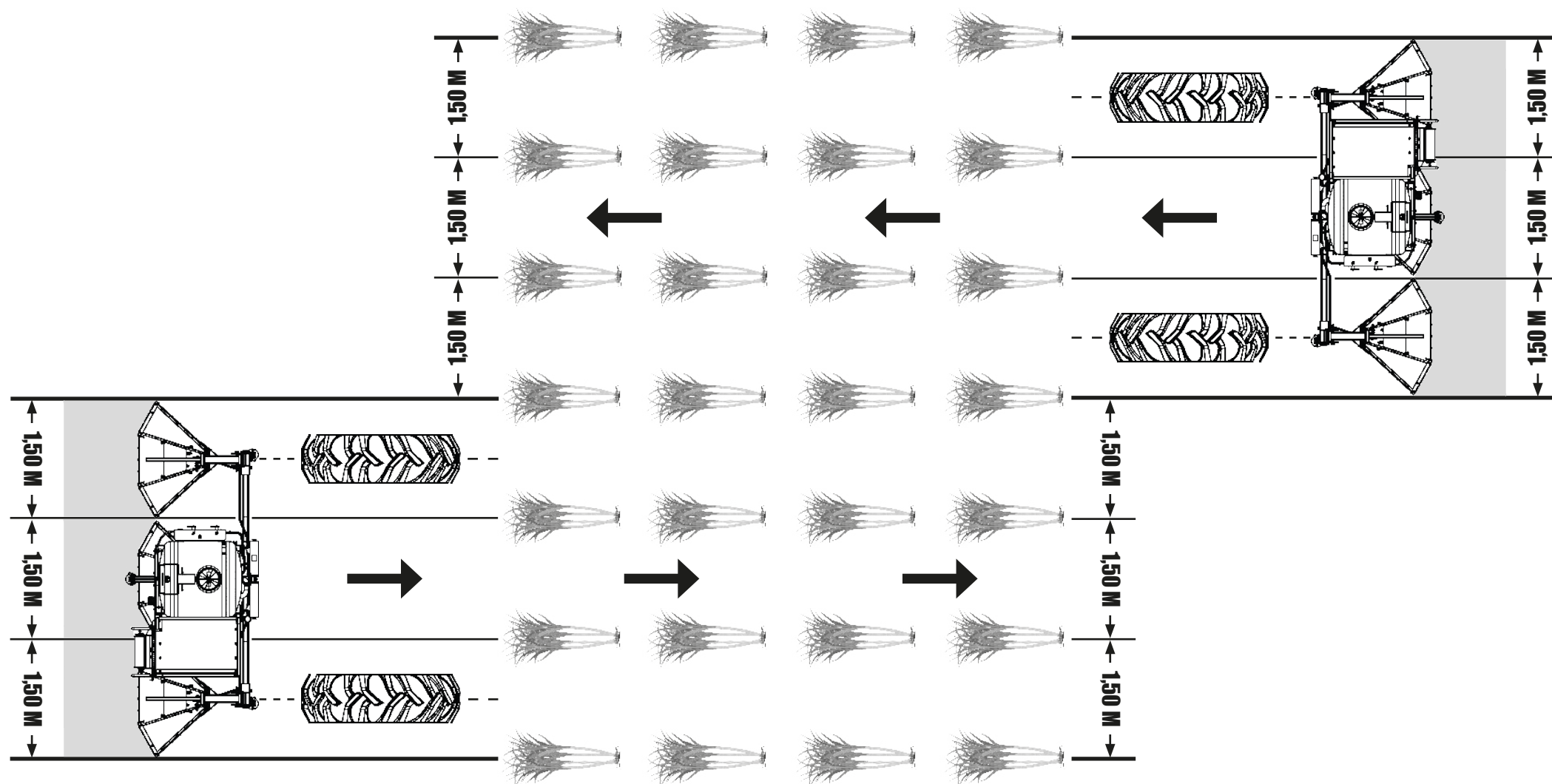
Operations

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".

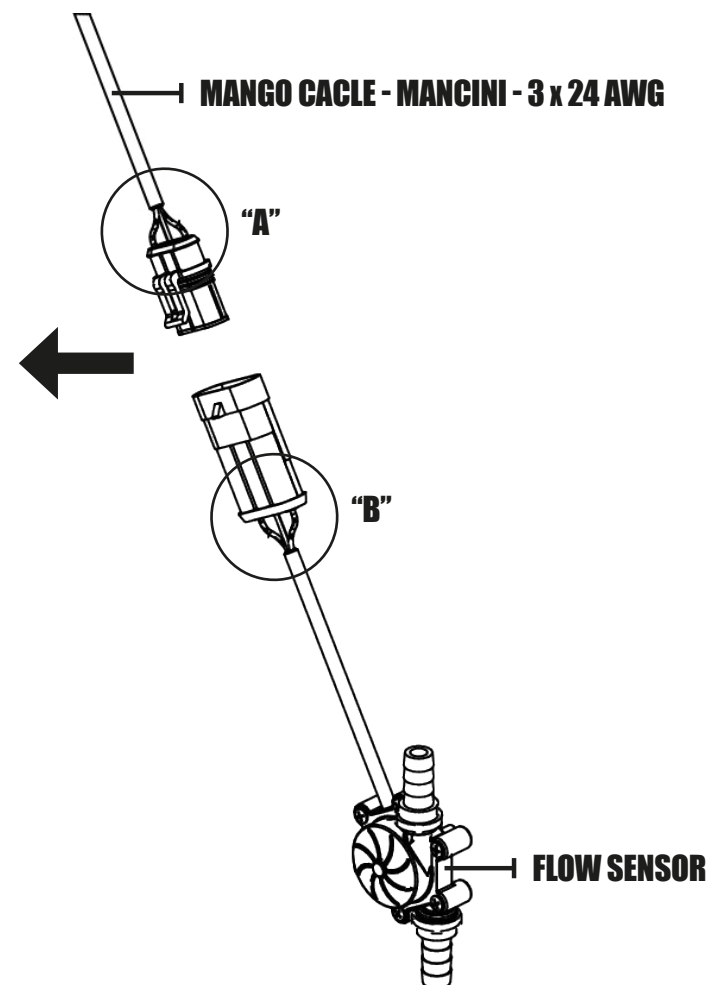
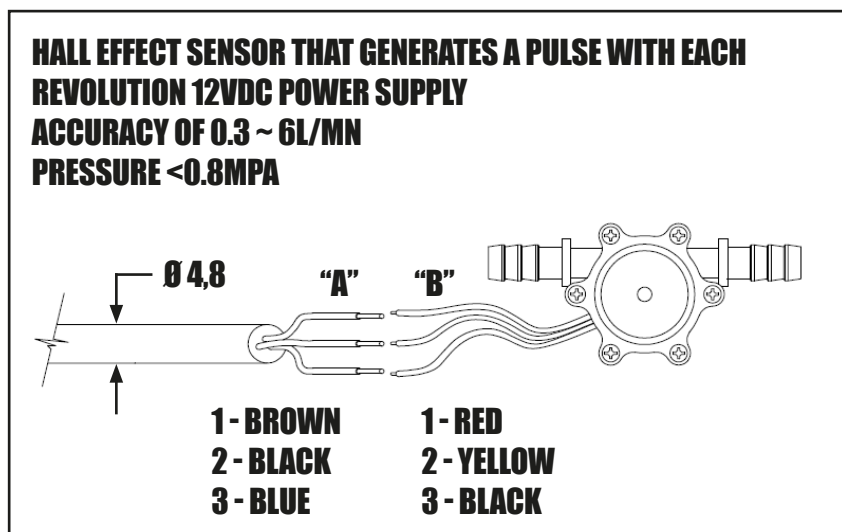
F) Pressure instability and oscillation in the manometer, what to do?

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



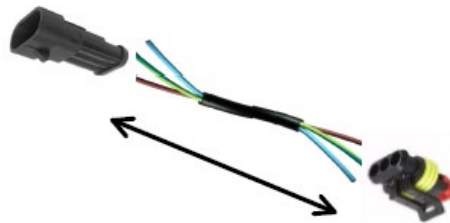
CONECTOR 19 VIAS - PAINEL FÊMEA

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:

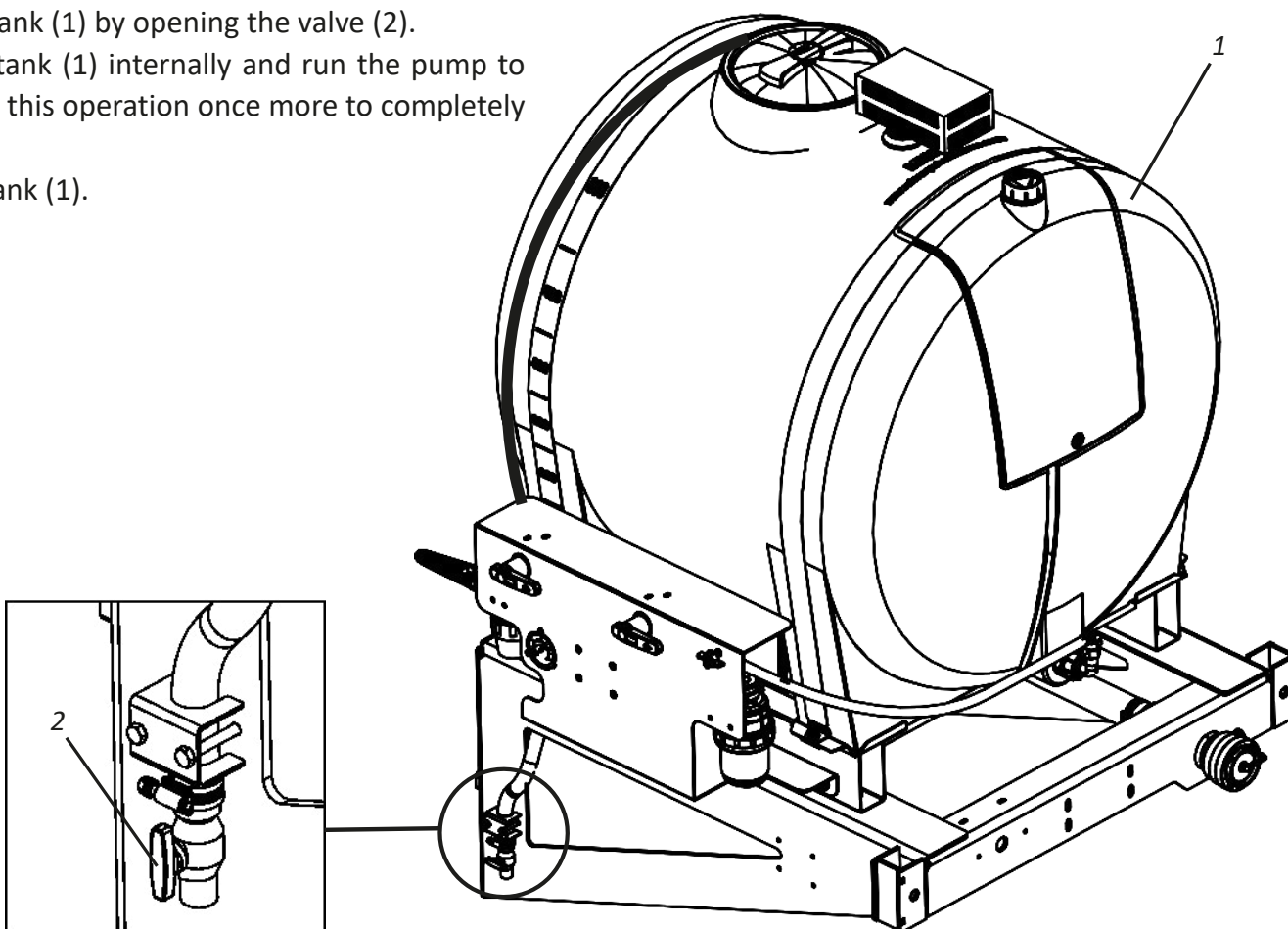
- 01** - Completely empty the product used in the 600 liter tank (1) by opening the valve (2).
- 02** - Then, using a clean water hose, rinse the 600-liter tank (1) internally and run the pump to clean the pump, hoses and nozzles internally. Repeat this operation once more to completely eliminate the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

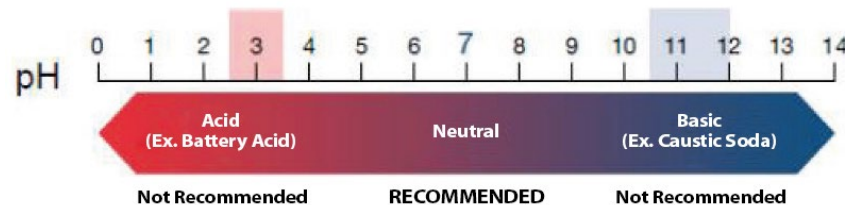
- 01** - Wash and clean all Fast Clean components during and at the end of the working season.
- 02** - Use neutral products to clean the Fast Clean, following the safety and handling guidelines provided by the manufacturer.
- 03** - Always carry out maintenance at the times indicated in this manual.

• 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.

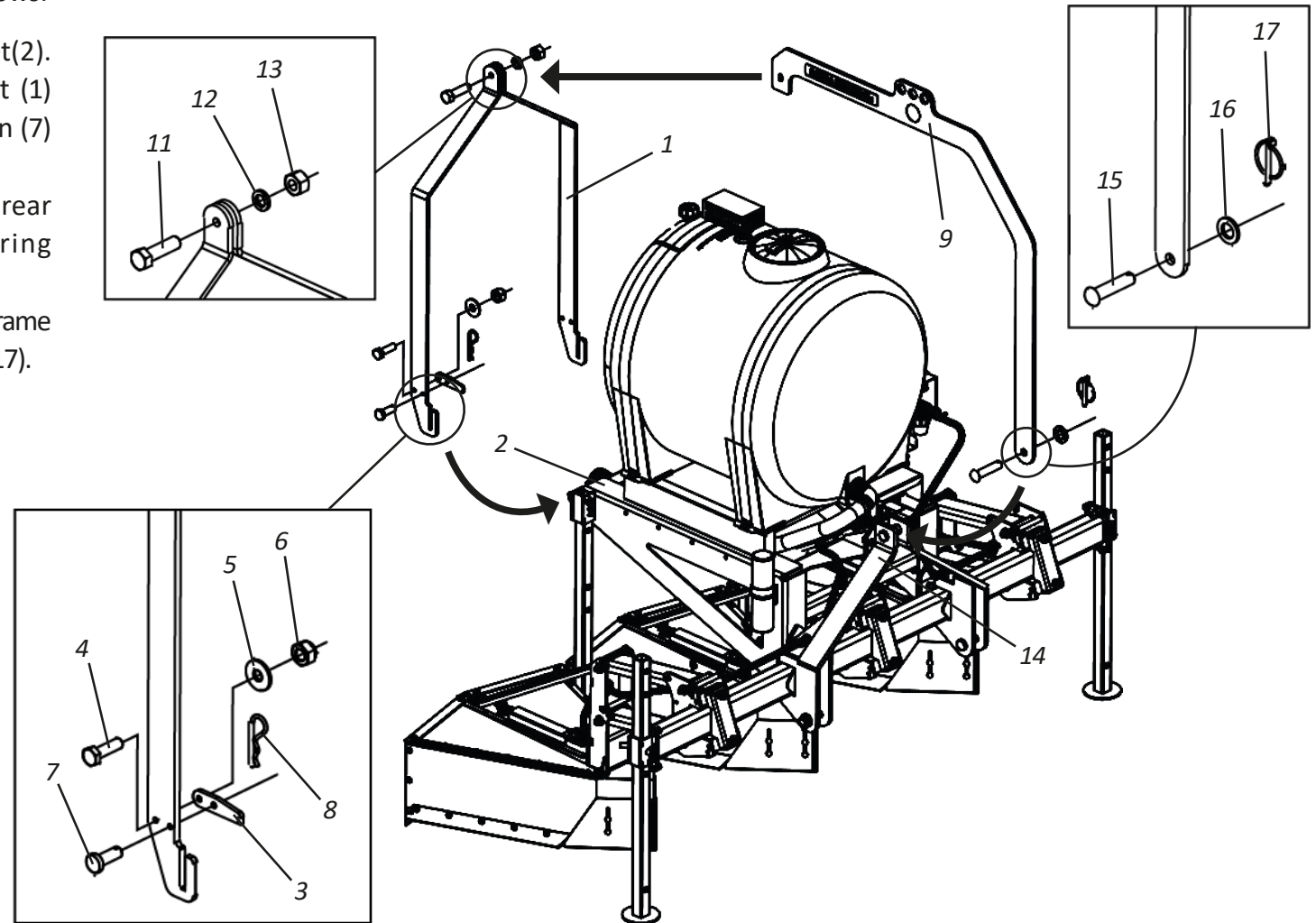
If you have any doubts about the inspection and storage of hooks, chains and slings, consult the manufacturer's manual.

▪ 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

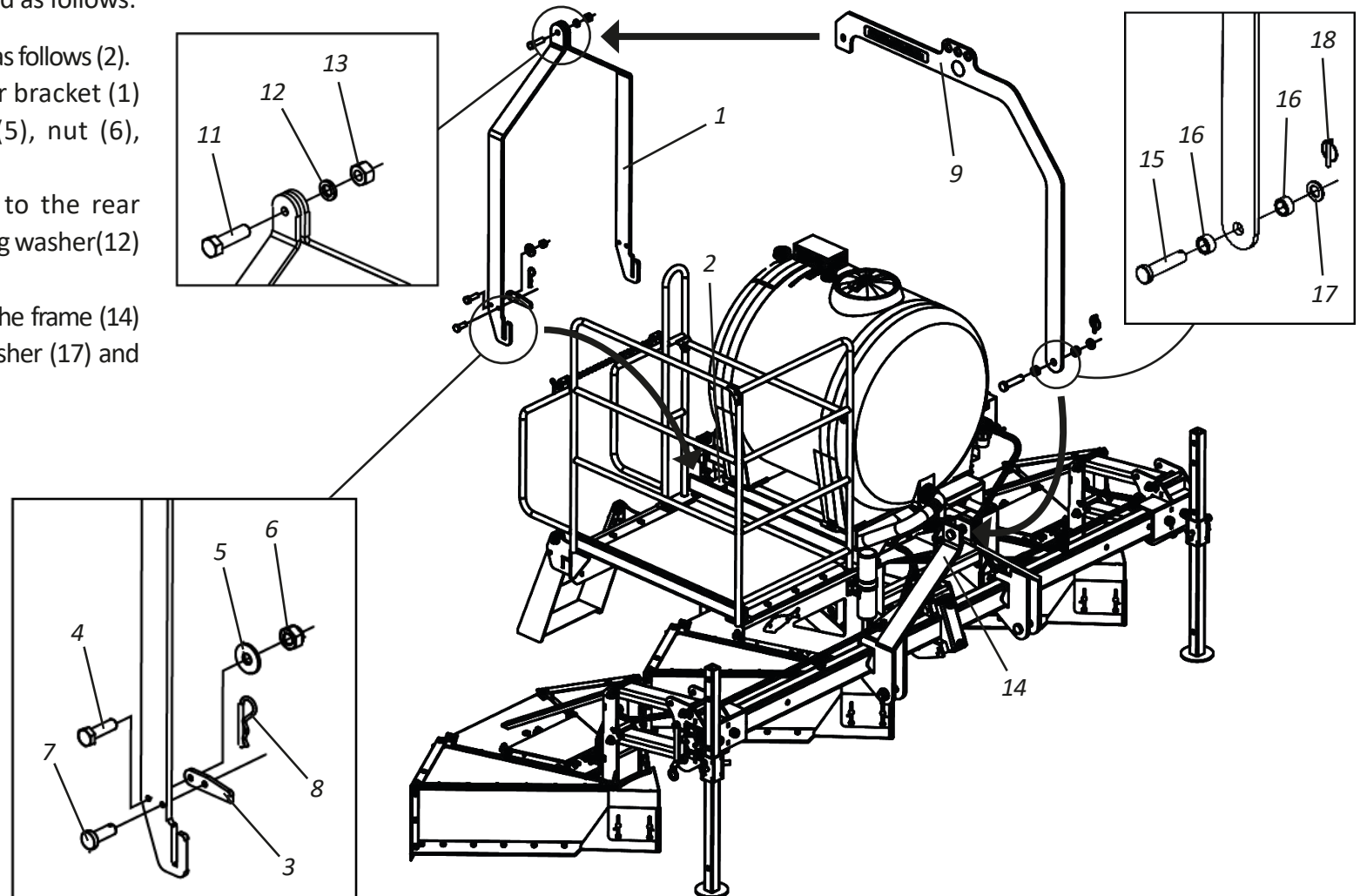
When you have finished lifting the FC 600, dismantle the lifting system.

▪ 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

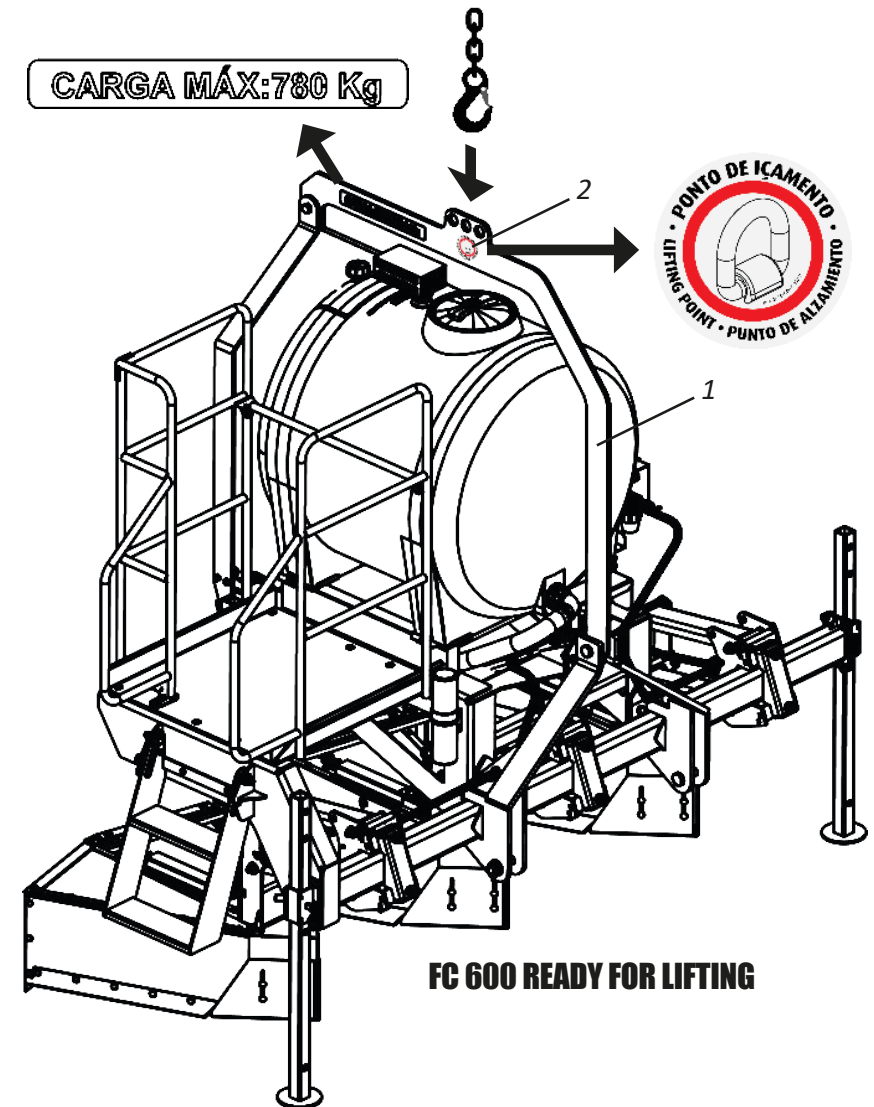


Use standardized hooks and chains, i.e. those that meet safety standards. The hooks and chains used to lift the FC 600 must be **GRADE 8 or 10** with a load capacity compatible with the weight of the FC 600 to be lifted.

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

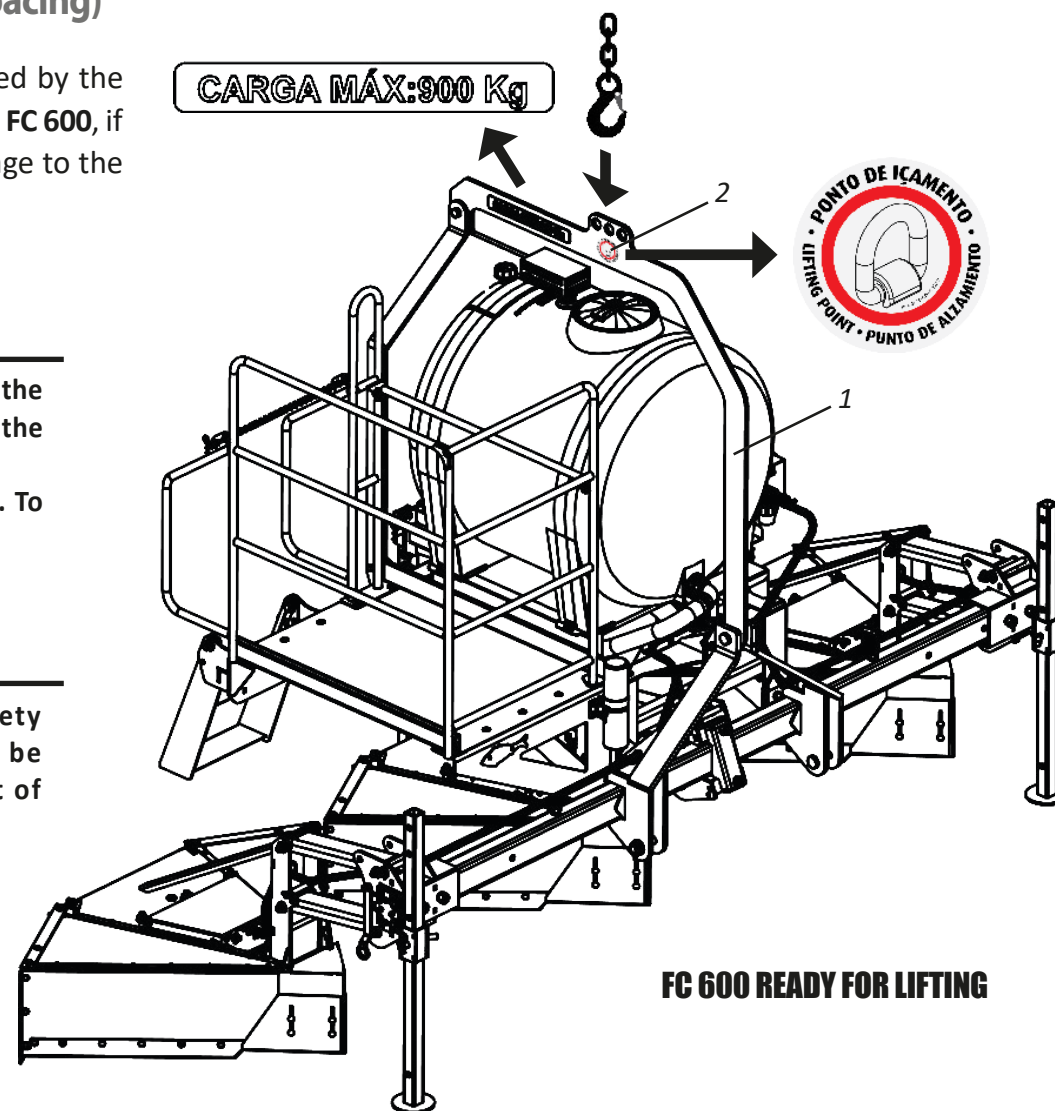


Use standardized hooks and chains, i.e. those that meet safety standards. The hooks and chains used to lift the **FC 600** must be **GRADE 8** or **10** with a load capacity compatible with the weight of the **FC 600** to be lifted.

NOTE



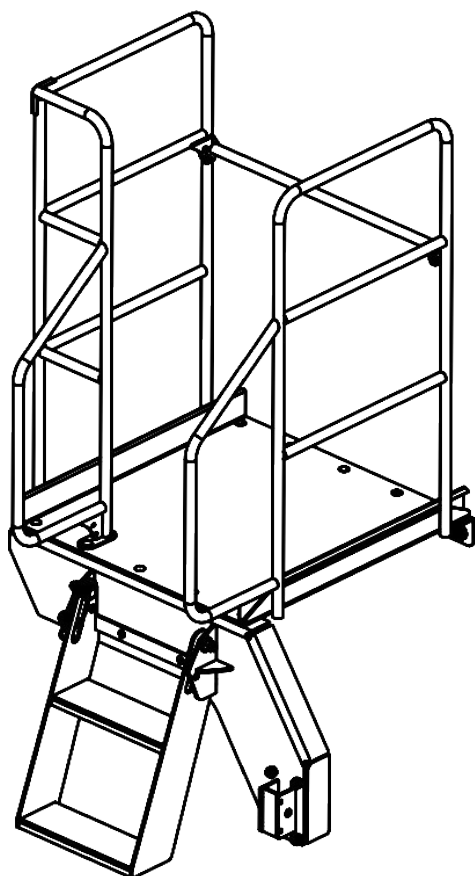
Before you start lifting the **FC 600**, make sure that there are no people near, on or under the **FC 600**. **NEVER** stand on or under the suspended **FC 600**. Ignoring these warnings could lead to serious accidents or death.



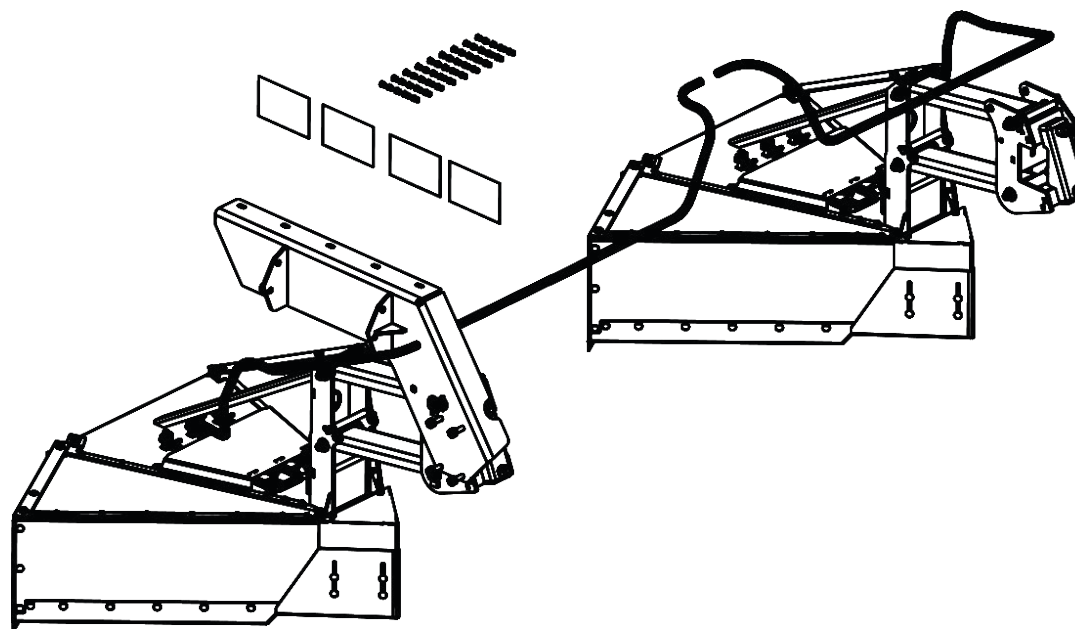
▪ Optional

• 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**

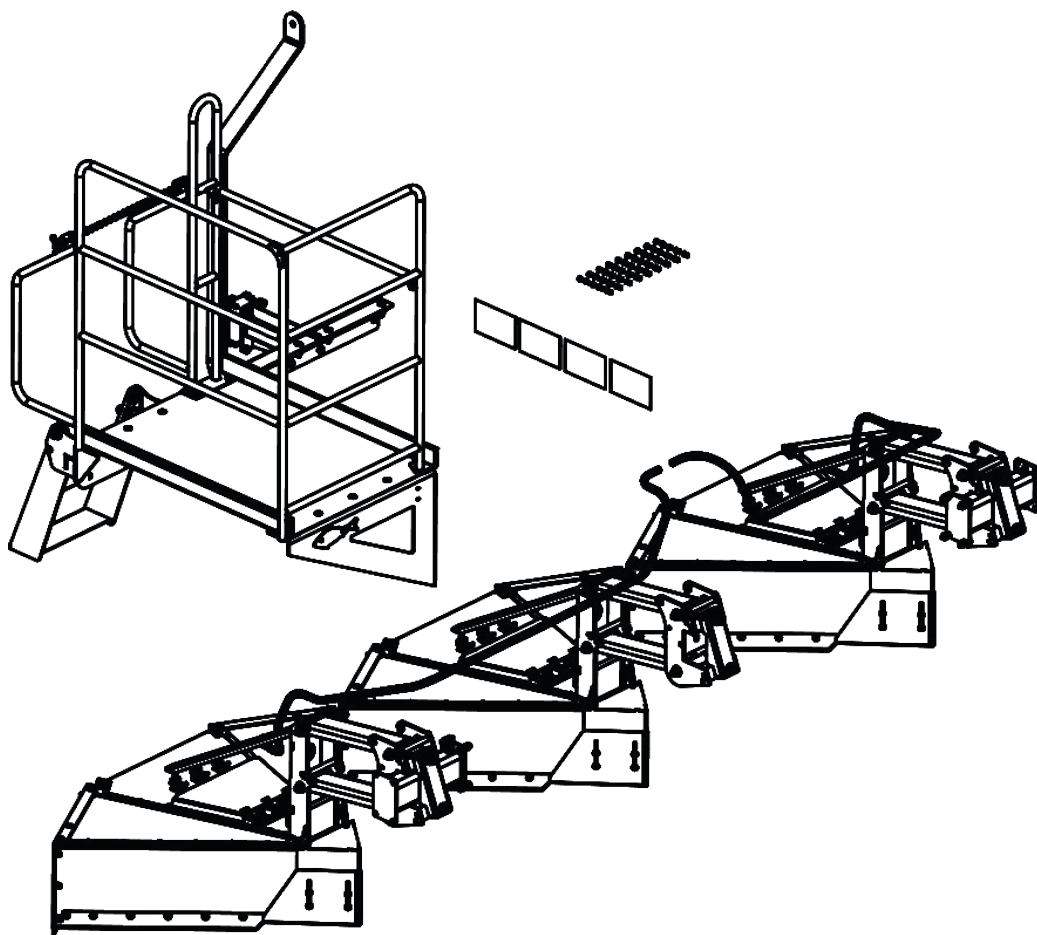


ACCESSORY KIT FOR ADAPTING ALTERNATE DOUBLE PLANTING SPACING

▪ 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: FC10122A

• 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.

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 _____

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 | e-mail: sac@baldan.com.br

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

e-mail: 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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