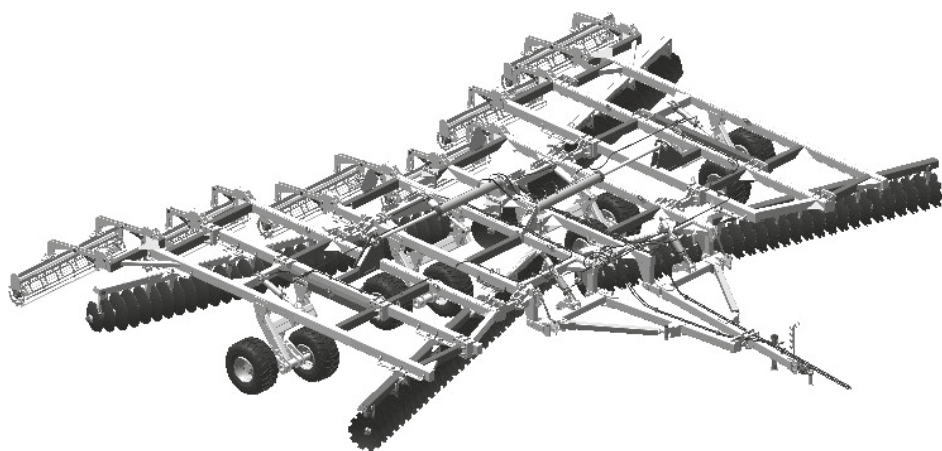


Instruction Manual



MOVERE

Super Tandem Articulated Disk Harrows

 **BALDAN**

■ Presentation

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



IMPLEMENTOS AGRÍCOLAS S/A technology.

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

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

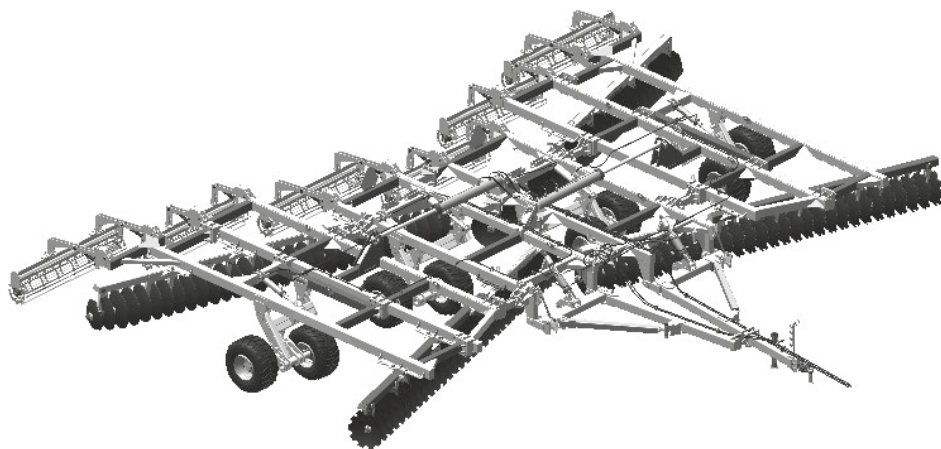
Resale was responsible for the custody and maintenance during the period in its possession, and also for the assembly, retightening, lubrication and overhaul.

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

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

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

Instruction Manual



MOVERE

Super Tandem Articulated Disk Harrows

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.



▪ Contents

BALDAN WARRANTY	08
GENERAL INFORMATION	09
<i>To the owner</i>	<i>09</i>
SAFETY RULES	10
<i>To the operator.....</i>	<i>10 - 13</i>
WARNINGS.....	14 - 15
COMPONENTS.....	16
<i>MOVE - Super Tandem Articulated Disk Harrows</i>	<i>16</i>
DIMENSIONS	17
<i>MOVE 88 Discs</i>	<i>17</i>
<i>MOVE 108 Discs</i>	<i>18</i>
<i>MOVE 124 Discs</i>	<i>19</i>
SPECIFICATIONS	20
<i>MOVE - Super Tandem Articulated Disk Harrows</i>	<i>20</i>
MOUNTING	21
<i>Assembling the disc sections</i>	<i>21</i>
<i>Finishing Disc Assembly</i>	<i>22</i>
<i>Assembling the disc sections - MOVE 88 discs</i>	<i>23</i>
<i>Assembling of the disc sections - MOVE 108 discs</i>	<i>24</i>
<i>Assembling the disc sections - MOVE 124 discs</i>	<i>25</i>
<i>Assembling the frames in the left center post</i>	<i>26</i>
<i>Assembling the disc sections on the central frames</i>	<i>27</i>
<i>Assembling the left and left side intermediate uprights and the frames</i>	<i>28</i>
<i>Assembling the disc sections on the left intermediate and left side frames</i>	<i>29</i>
<i>Assembling the cleaners</i>	<i>30</i>
<i>Assembling the Right Center Bracket on the Wheel Shaft</i>	<i>31</i>
<i>Mounting the left center bracket of the wheel axle on the frame</i>	<i>32</i>
<i>Mounting the tires</i>	<i>33</i>
<i>Mounting the frame union bracket</i>	<i>34</i>
<i>Mounting of the coupling header - MOVE 88 discs</i>	<i>35</i>
<i>Mounting of the coupling header - MOVE 108 and 124 discs</i>	<i>36</i>
<i>Assembling of the hydraulic cylinders in the coupling header - MOVE 88 discs</i>	<i>37</i>
<i>Assembling of the hydraulic cylinders in the coupling header - MOVE 108 and 124 discs ...</i>	<i>38</i>
<i>Assembling the hydraulic cylinders on the uprights</i>	<i>39</i>
<i>Mounting the tillage rollers</i>	<i>40</i>
<i>Mounting of the tillage rollers - MOVE 88 discs</i>	<i>41</i>
<i>Mounting of the tillage rollers - MOVE 108 discs</i>	<i>42</i>
<i>Mounting of the tillage rollers - MOVE 124 discs</i>	<i>43</i>
<i>Mounting of signage</i>	<i>44</i>

■ Contents

Mounting the hydraulic system - MOVERE 88 discs	45
Mounting the hydraulic system - MOVERE 108 discs	46
Mounting the hydraulic system - MOVERE 128 discs	47
COUPLER	48
Coupling of the DISK HARROWS on the tractor drawbar	48
LEVELING.....	49
DISK HARROWS Leveling - Part I	49
DISK HARROWS Leveling - Part II	50
ADJUSTMENTS.....	51
Transport adjustments - Part I	51
Transport adjustments - Part II	52
Transport adjustments - Part III	53
Transport regulations - Part IV	54
Transport adjustments - Part V	55
Working depth adjustment.....	56
Pressure regulating of the tillage roller - Part I	57
Pressure regulation of the tillage roller - Part II	58
Crid centering adjustment	59
OPERATIONS	60
Recommendations for operation - Part I	60
Recommendations for operation - Part II	61
CALCULATIONS.....	62
Approximate hourly output.....	62
MAINTENANCE	63
Tire Pressure	63
Lubrication	64
Lubrication every 24 working hours - Part I	65
Lubrication every 24 working hours - Part II	66
Adjustments of the rollers bearings	67
Lubrification of the bearings	67
Adjustments of the disc section bearings	68
Bearing oil.....	68
Operational Maintenance	69
Care.....	70
General cleaning - Part I	70
General cleaning - Part II	70
Harrow conservation - Part I	71
Harrow conservation - Part II	72 - 73

▪ Contents

LIFTING	73
<i>Lifting points</i>	<i>73</i>
OPTIONAL.....	73
<i>Cutting Discs</i>	<i>73</i>
IDENTIFICATION.....	74
<i>Identification plate.....</i>	<i>74</i>
<i>Product Identification</i>	<i>75</i>
NOTES	76 - 77
CERTIFICATE	78
<i>Warrantycertificate.....</i>	<i>78 - 84</i>

▪ Baldan Warranty

BALDAN IMPLEMENTOS AGRÍCOLAS S/A ensures normal operation of the tool to the dealer for a period of six (6) months from the delivery date on the resale invoice to the first end consumer. During this period undertakes **BALDAN** to remedy defects in materials and/or workmanship of their responsibility, and the labour, freight and other expenses are of the responsibility of the dealer.

During the warranty period, the order and replacement of any defective parts must be made to the dealer in the region, who will send the defective part for analysis at **BALDAN**. When such a procedure is not possible and exhausted the resolution capacity of the dealer, the dealer will request support from the Technical Assistance of **BALDAN** through the specific form distributed to resellers.

After analysing the items replaced by the Technical Assistance of **BALDAN**, and concluded that it is not a warranty issue, so it will be of responsibility of the reseller any costs related to replacement; as well as the cost of materials, travel including accommodation and meals, accessories, lubricant and other expenses resulting from the call to the service, with the **BALDAN** company being authorised to make its billing on behalf of the reseller.

Any repairs made to the product that is within the warranty period of the dealer will only be authorised by with **BALDAN** prior presentation of the budget describing the work of parts and labour to be performed.

It is excluded from this term the product that is repaired or modified in shops that do not belong to the dealer network of **BALDAN**, as well as the use of non-genuine parts or components in the product of the customer.

This guarantee will become null when it is determined that the defect or damage is the result of improper product use, failure to follow instructions or the inexperience of the operator. It is agreed that this warranty does not cover tires, polyethylene tanks, cardans, hydraulic components, etc., which is equipment guaranteed by their manufacturers. Manufacturing and or material defects, object of this warranty term, will not constitute, under any circumstances, a reason for termination of the purchase and sale contract or compensation of any nature.

BALDAN reserves the right to modify and or improve the technical characteristics of its products without notice and without obligation so to proceed with the products previously manufactured.

▪ General Information

• To the owner

BALDAN IMPLEMENTOS AGRÍCOLAS S/A is not liable for any damage caused by accidents arising from the use, transportation or improper or incorrect storage of your tool, whether due to negligence and/or inexperience of any person.

Only persons with full knowledge of the tractor and the tool may carry out the transportation and operation of the same.

BALDAN shall not be liable for any damage caused in unforeseeable or unrelated situations to the normal use of the tool.

The mishandling of this equipment can result in serious or fatal accidents. Before putting the equipment into operation, please read the instructions in this manual. Ensure that the person responsible for the operation is instructed in the correct and safe handling of it. Also make sure that the operator has read and understood the instruction manual of the product.

WARNING

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

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

MR. OWNER OR OPERATOR OF THE EQUIPMENT.
Please read and follow the NR-31 standard carefully.

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

▪ Safety Standards

• To the operator



THIS SYMBOL INDICATES AN IMPORTANT SAFETY WARNING. IN THIS MANUAL, WHENEVER YOU FIND IT, PLEASE READ THE MESSAGE BELOW CAREFULLY AND BE ATTENTIVE TO THE POSSIBILITY OF PERSONAL ACCIDENTS.

WARNING



Read the instruction manual carefully for recommended safety practices.

WARNING



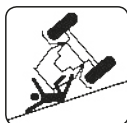
Only start the tractor when you are properly seated and the seat belt is locked.

WARNING



Do not carry personnel on the tractor and neither inside nor on the equipment.

WARNING



There are risks of serious injury by tipping when working in sloping terrain. Do not use excessive speed.

WARNING



Do not work with the tractor if the front has insufficient ballast for rear equipment. If there is a tendency to lift, add weights to the front or front wheels.

WARNING



Before doing any maintenance on your equipment, make sure it is properly stationary. Avoid getting run over.

WARNING



Be careful when handling the MOVE support foot, as there is a risk of accidents.

▪ Safety Standards

WARNING

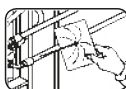
FOLLOW ALL SUGGESTED RECOMMENDATIONS, WARNINGS, AND PRACTICES IN THIS MANUAL, UNDERSTAND THE IMPORTANCE OF YOUR SAFETY. ACCIDENTS MAY LEAD TO INVALIDITY OR INCLUDE DEATH. REMEMBER, ACCIDENTS CAN BE AVOIDED!

WARNING



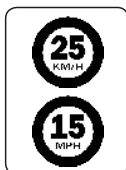
Do not make adjustments with MOVEIRE in operation. When doing any services on the MOVEIRE, first switch off the tractor. Use the appropriate tools.

WARNING



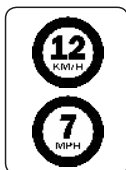
When looking for a possible leak in the hoses, use a piece of cardboard or wood, never use your hands. Avoid fluids going into the skin.

WARNING



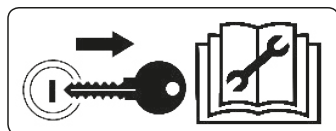
When transporting the MOVEIRE, do not exceed the speed of 25Km/h or 15 MPH, avoiding risk of damage and accidents.

WARNING



When working with MOVEIRE, do not exceed the speed of 12Km/h or 7 MPH, avoiding risks of damages or accidents.

WARNING



Remove the ignition key before performing any maintenance on MOVEIRE. Protect yourself from possible injury or death caused by an unforeseen MOVEIRE roll-off. If MOVEIRE is not properly engaged, do not start the tractor.

WARNING



Hydraulic pressure oil can cause serious injury if leaks occur. Periodically check the condition of the hoses.

If there are signs of leakage, replace immediately. Before connecting or disconnecting the hydraulic hoses, relieve the pressure of the system by starting the engine with the tractor switched off.

▪ Safety Standards

! WARNING ALCOHOLIC DRINKS OR SOME TYPES OF MEDICATION CAN GENERATE LOSS OF REFLECTIONS AND CHANGE THE PHYSICAL CONDITIONS OF THE OPERATOR. THEREFORE, NEVER OPERATE THE EQUIPMENT UNDER THE USE OF THESE SUBSTANCES.

! WARNING



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

! WARNING



Before commencing the work or transport of MOVE, check for any persons or obstructions near it.

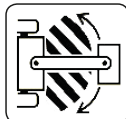
! WARNING



Avoid heating parts near the fluid lines. Heating may generate

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

! WARNING



Keep the joint area free while MOVE is in operation. In tight corners, do not allow the tractor wheels to touch the header.

! WARNING



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

of the tire. When filling the tire, position yourself next to the tire, never in front of it. Always use a containment device (filling cage) to fill the tire.

! WARNING



- Disposing of waste improperly affects the environment and ecology, as it will be polluting rivers, canals or the ground.

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

PROTECT THE ENVIRONMENT!

▪ Safety Standards

• Equipamentos de EPI's



WARNING

DO NOT WORK WITH MOVEIRE BEFORE PUTTING PPE ON (SAFETY EQUIPMENT). IGNORING THIS WARNING COULD CAUSE DAMAGE TO HEALTH, SERIOUS ACCIDENTS OR DEATH

When performing certain procedures with **MOVEIRE**, put on the following PPE (Safety Equipment) below:



! IMPORTANT

A safe attitude must be observed in all stages of working with **MOVEIRE**, thus avoiding accidents such as impact of objects, fall, noise, cuts and ergonomics, in other words, the person responsible for operating **MOVEIRE** is subject to internal and external damage to your body.



OBSERVAÇÃO

All PPE (Safety Equipment) must have a certificate of authenticity.



▪ Warnings

-  When operating with the MOVERE, do not let people stay close or close to it.
-  When carrying out any maintenance service, use PPE equipment
-  Before you connect or disconnect the hydraulic hoses, relieve the system pressure by triggering the command with the tractor off.
-  Periodically check the state of conservation of the hydraulic hoses. If there are signs of oil leakage, replace the hose immediately as the oil works under high pressure and can cause serious accidents.
-  Do not wear loose clothing, as they may thread into the MOVERE.
-  When operating the tractor engine, be properly seated in the operator's seat and be aware of the complete knowledge of the correct and safe handling of both the tractor and MOVERE. Always place the gearshift lever in neutral, turn off the power supply command gear and place the hydraulic controls in neutral.
-  Do not switch on the tractor motor indoors without adequate ventilation, as the exhaust gases are harmful to health.
-  When maneuvering the tractor to engage MOVERE, make sure you have the necessary space and that there is no one close, always maneuver at idle and be prepared to brake in an emergency.
-  Do not make adjustments with MOVERE in operation.
-  When working on sloping terrains, proceed with caution when trying to maintain the necessary stability. In the event of an imbalance start, reduce the acceleration, turn the wheels to the slope side of the terrain and never raise the MOVERE.
-  Always drive the tractor at speeds compatible with safety, especially when working in rough terrain or slopes, always keep the tractor engaged. When driving
-  The tractor on roads, keep the brake pedals interlocked.
-  Do not work with the tractor with a light rear. If the rear tends to raise, add more weights on the rear wheels.
-  When leaving the tractor put the gear lever in neutral and apply the parking brake. Never leave the MOVERE engaged in the tractor in the raised position of the hydraulic system.
-  Any maintenance on the MOVERE must be done at the same stop and with the tractor switched off.
-  Do not travel on highways, especially at night. Use warning signs throughout the route.

▪ Warnings

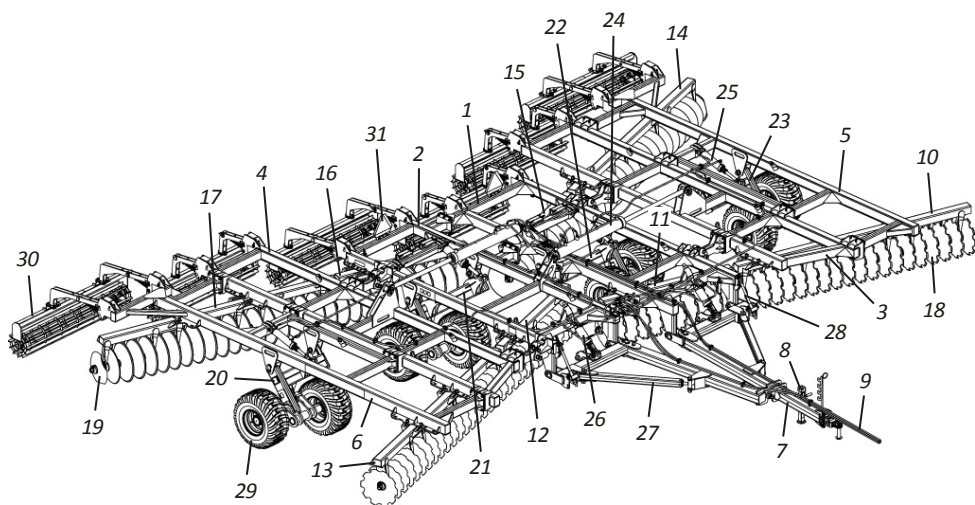
-  If you need to travel with MOVERE on the highways, consult the transit agencies.
-  Do not allow MOVERE to be used by persons who have not been trained, that is, who do not know how to operate it correctly.
-  Do not transport or work with MOVERE near obstacles, rivers or streams.
-  It is forbidden to transport people on self-propelled machines and implements.
-  Changes to the original MOVERE features are not allowed, as they may change safety, function and affect the service life
-  Carefully read all the safety information in this manual and in MOVERE.
-  Read or explain all of the procedures in this manual to the operator who can not read.
-  Check if MOVERE is in perfect conditions of use. In the event of any irregularity that may interfere with the operation of MOVERE, ensure that it is properly maintained before carrying out any work or transport.
-  Maintenance and especially inspection in MOVERE risk areas should only be carried out by a qualified or trained worker, observing all safety guidelines. Before starting maintenance, disconnect all MOVERE drive systems.
-  Periodically check all MOVERE components before using it.
-  According to the equipment used and working conditions in the country or in areas of maintenance, precautions are necessary. Baldan has no direct control over precautions, so it is the owner's responsibility to implement safety procedures while working with MOVERE.
-  Check the minimum tractor power recommended for each MOVERE model. Only use tractors with power and ballast compatible with the load and land topography.
-  When transporting MOVERE, drive at speeds compatible with the terrain and never exceed 16 km/h, this reduces maintenance and consequently increases the service life of MOVERE.
-  Alcohol or some types of medication can generate loss of reflexes and change the physical conditions of the operator. Therefore, never operate MOVERE under the use of these substances.
-  Read or explain all of the procedures in this manual to the user who can not read.

In case of doubt, consult the After Sales Service.
Telephone 0800-152577 / E-mail: posvenda@baldan.com.br

■ Components

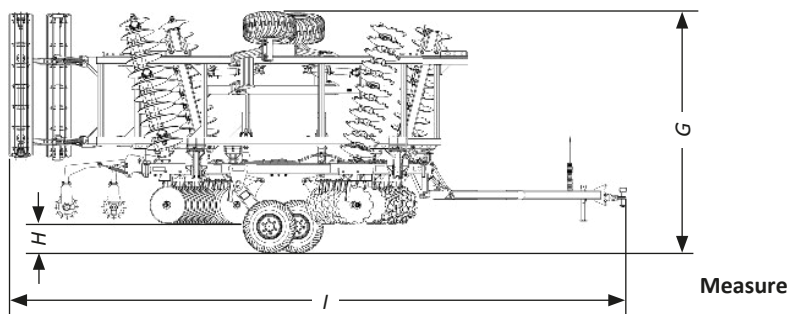
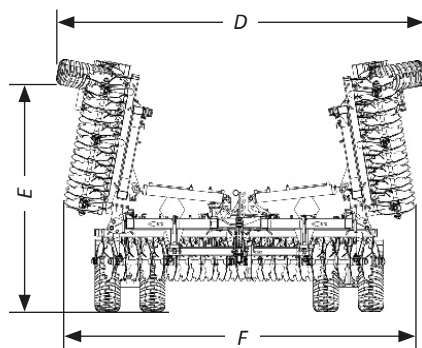
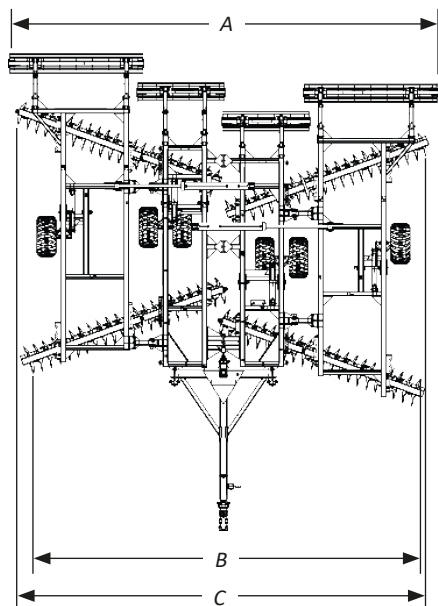
• MOVERE - Super Tandem Articulated Disk Harrows

1. Left center frame
2. Right center frame
3. Left middle frame
4. Right Intermediate frame
5. Left side frame
6. Right side frame
7. Coupling head
8. Screw jack
9. Hydraulic hoses
10. Front left side frame
11. Front left frame
12. Right front frame
13. Right front side frame
14. Left side rear frame
15. Left rear frame
16. Rear right frame
17. Rear right side frame
18. Disk
19. Finishing Disc
20. Right side axle bracket
21. Right center wheel axle frame
22. Left center wheel hub bracket
23. Left side wheel axle support
24. Cylinder of articulation of the sides
25. Wheel Articulation Cylinder
26. Cylinder of articulation of the header
27. Coupler header regulator
28. Stabilizer Shaft
29. Tire
30. Tillage roller
31. Signage plate



▪ Dimensions

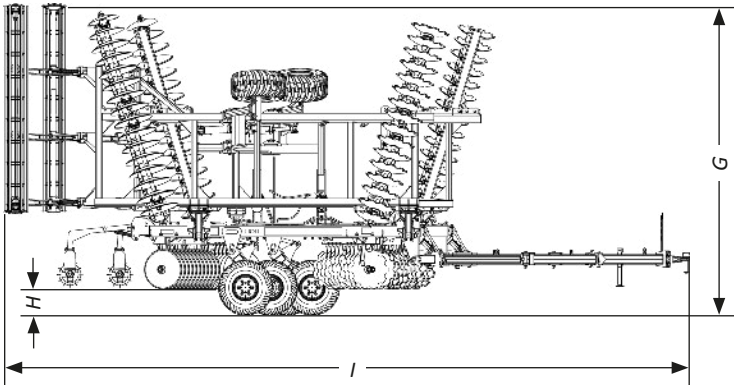
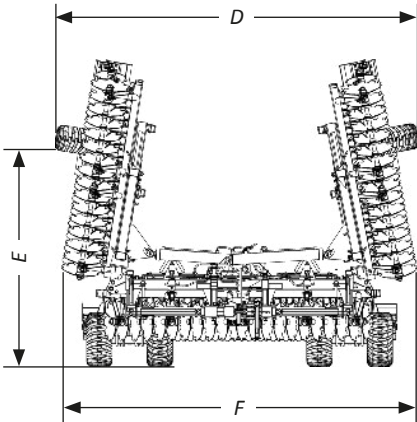
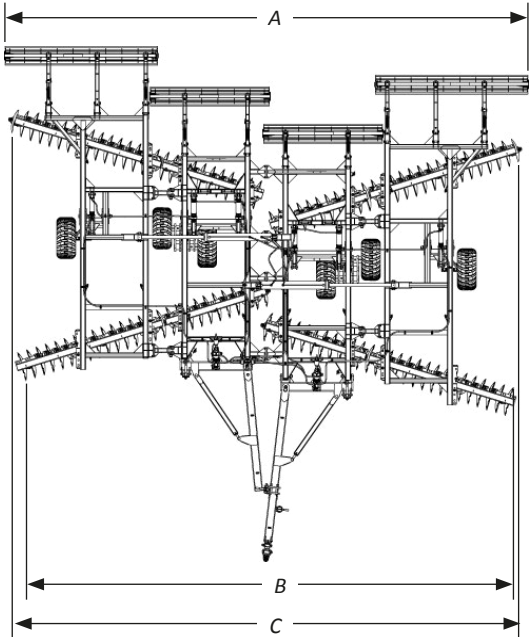
• MOVERE 88 Discs



Number of Discs	Measure A (mm)	Measure B (mm)	Measure C (mm)	Measure D (mm)	Measure E (mm)	Measure F (mm)	Measure G (mm)	Measure H (mm)	Measure I (mm)
88	9013	8315	8824	5457	3557	5472	3920	470	10025

▪ Dimensions

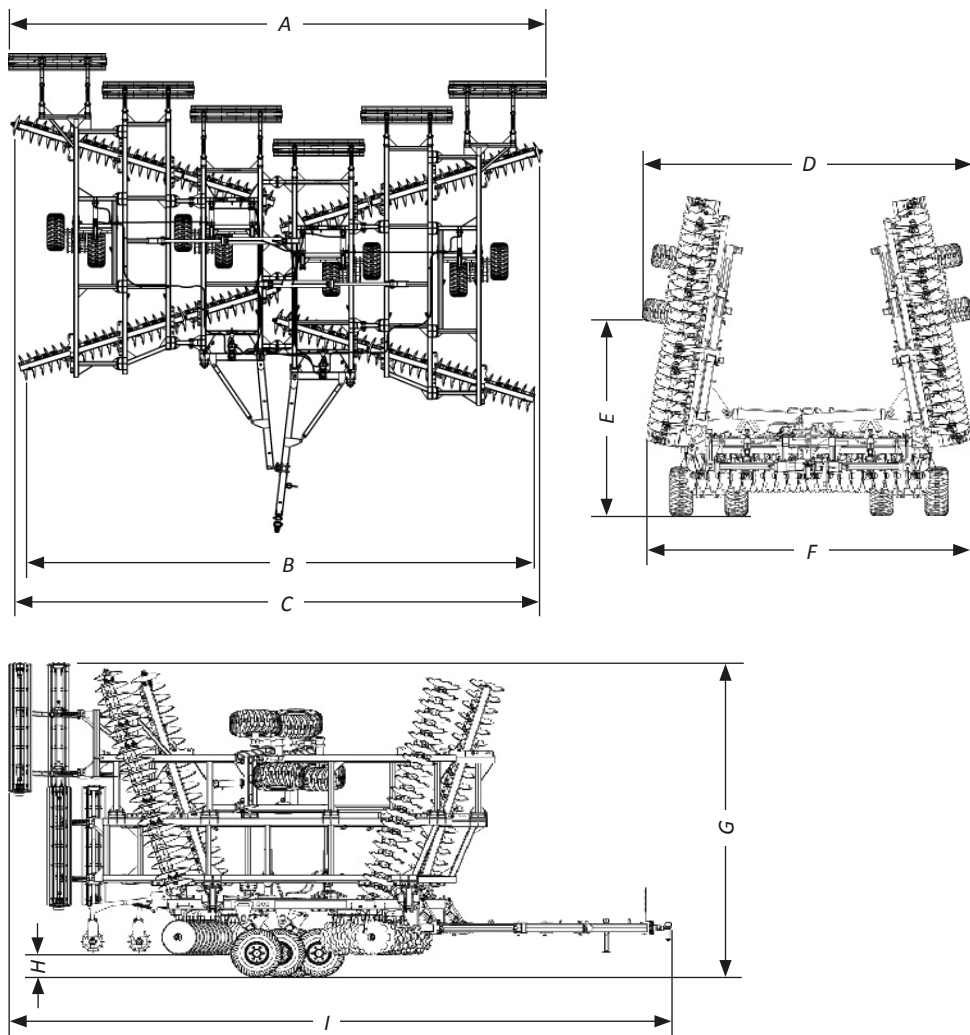
• **MOVERE 108 Discs**



Number of Discs	Measure A (mm)	Measure B (mm)	Measure C (mm)	Measure D (mm)	Measure E (mm)	Measure F (mm)	Measure G (mm)	Measure H (mm)	Measure I (mm)
108	11023	10253	10628	5815	3391	5573	4785	405	10702

▪ Dimensions

• MOVERE 124 Discs



Number of Discs	Measure A (mm)	Measure B (mm)	Measure C (mm)	Measure D (mm)	Measure E (mm)	Measure F (mm)	Measure G (mm)	Measure H (mm)	Measure I (mm)
124	12503	11815	12161	5815	3376	5591	5440	406	11067

■ Specifications

• MOVERE - Super Tandem Articulated Disk Harrows

Model	Number of Discs	Disc Spacing (mm)	Disc Diameter (ø)	Concave Discs (mm)	Shaft Diameter (ø)	Working Width (mm)
MOVERE	88	200	22" - 24"	5,0	1.1/2"	8315
	108	200	22" - 24"	5,0	1.1/2"	10253
	124	200	22" - 24"	5,0	1.1/2"	11815

Model	Number of Discs	Max Depth of work (mm)		Approximate Weight w/ roller (Kg)		Tractor Power (HP)	Tires	
		22"	24"	22"	24"		Quantity	Model
MOVERE	88	168	194	9112	9330	310 à 350	06	400x60
	108	168	194	10275	10275	380 à 430	06	400x60
	124	168	194	12575	12575	430 à 496	08	400x60

Adjusting the discs crossing..... 03 positions
 Recommended maximum working speed 12km/h
 Recommended maximum transport speed 25km/h
 Opening angle of disc frames..... 14° - 17° - 20°

Baldan reserves the right to modify and or improve the technical characteristics of its products without notice and without obligation so to proceed with the products previously manufactured.
 The technical specifications are approximate and informed in normal working conditions.

INTENDED USE OF MOVERE

- **MOVERE** was developed exclusively for soil preparation work in large areas, breaking of clods and leveling after harrowing.
- **MOVERE** must be driven and operated only by a properly instructed operator.

PROHIBITED USE OF MOVERE

- To avoid damage, serious accident or death, DO NOT transport people over any part of **MOVERE**.
- It is FORBIDDEN to use **MOVERE** to attach, tow or push other implements or accessories.
- **MOVERE** should NOT be used by an inexperienced operator who does not know all the driving, command and operation techniques.

▪ **Assembly**

MOVERE leaves the factory disassembled. To assemble it, follow the instructions below:

⚠ **MOVERE** assembly must be made by resellers, using trained personnel, able and qualified for this work.

⚠ Before starting the assembling of **MOVERE**, find an ideal place where you can easily identify parts and assemble them.

⚠ Do not wear loose clothing, as they may get stuck in **MOVERE**.

▪ **Assembly**

• **Assembly of the section of discs**

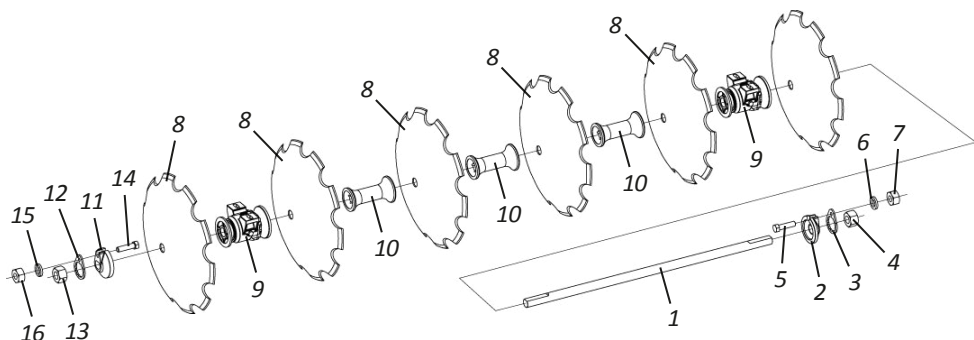
When you start **MOVERE**, always start with the set of disks for this, proceed as follows:

1 - Fit the locking washer (2), locking nut (3), nut (4) onto the shaft (1) and tightening it with the bolt (5), washer (6) and nut (7).

2 - Then, place on the shaft (1) the disc (8), bearing (9), the other disc (8), separator spool (10) and so on.

3 - When the assembly is complete with all discs, bearings, separator spools, place the convex thrust washer (11), lock (12), nut (13), tightening with the wrench until the entire assembly is tightened.

4 - Once finished, fit the disc assembly and tighten the nut (13) through impact. When the maximum tightening torque is almost reached, tighten the lock (12) with the convex washer (11), always tighten the nut until the drilling matches, fix it with the screw (14), washer (15) and screw (16).



WARNING

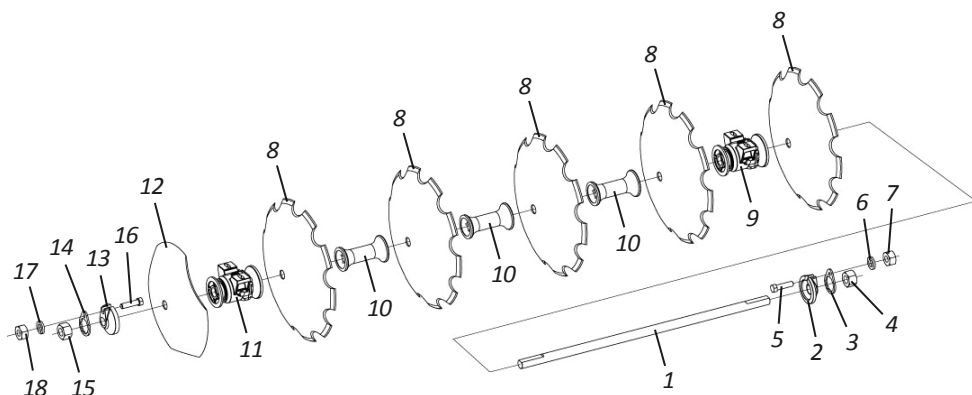
Check the right side of the separating spools and the bearings according to the concavity of the discs.

■ Assembly

• Mounting the Finishing Disc

To mount the finishing disc, proceed as follows:

- 1** - Fit the locking washer (2), locking nut (3), nut (4) onto the shaft (1) and tightening it with the bolt (5), washer (6) and nut (7).
- 2** - Then, place on the shaft (1) the disc (8), bearing (9), the other disc (8), separator spool (10) and so on until the bearing (11) and the finishing disc (12) are fitted.
- 3** - When the assembly is complete with all discs, bearings, separator spools, place the convex thrust washer (11), lock (12), nut (13), tightening with the wrench until the entire assembly is tightened.
- 4** - Once finished, fit the disc assembly and tighten the nut (13) through impact. When tightening, tighten the locking nut (14) with the convex washer (13), always tighten the nut until the drilling matches, tighten it with the screw (16), washer (17) and screw (18).

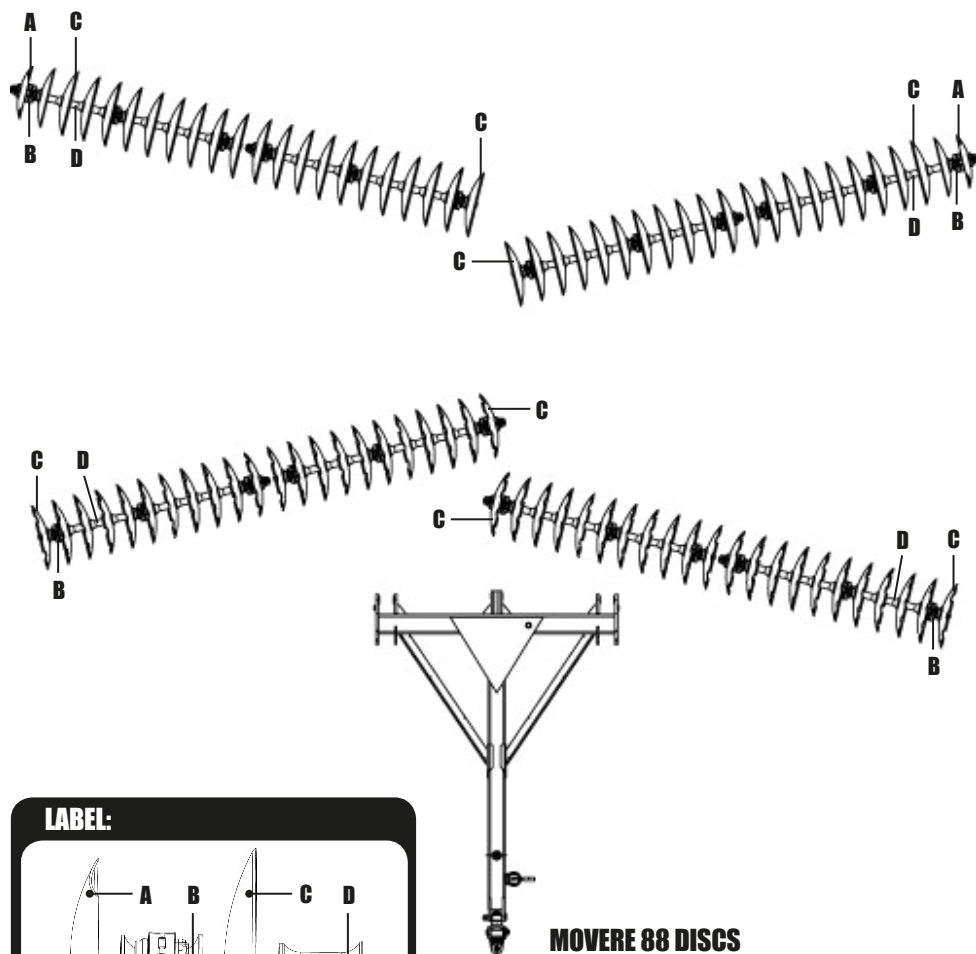


WARNING Check the right side of the separating spools and the bearings according to the concavity of the discs.

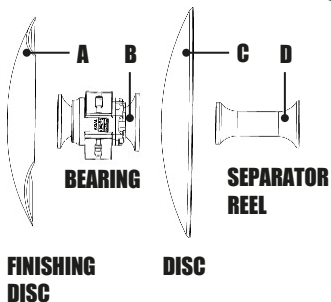
▪ Assembly

• Assembling the disc sections - MOVERE 88 discs

See below the assembly of the disc sections of the **MOVERE 88** discs.



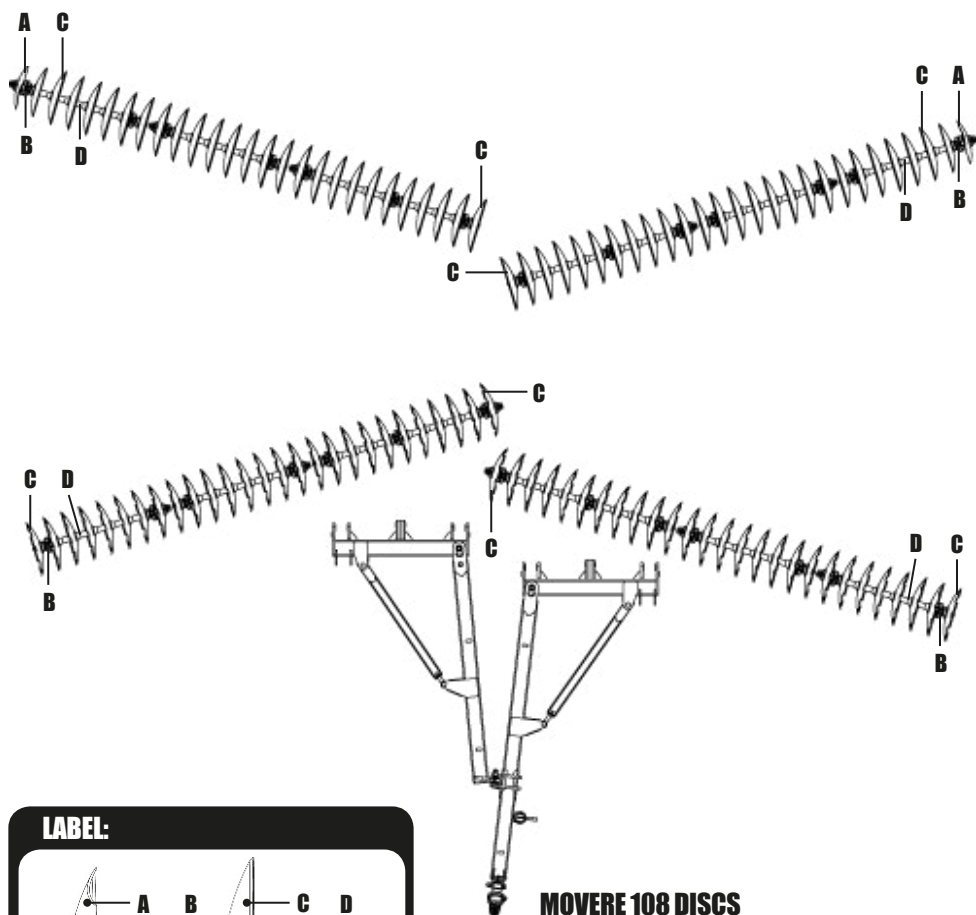
LABEL:



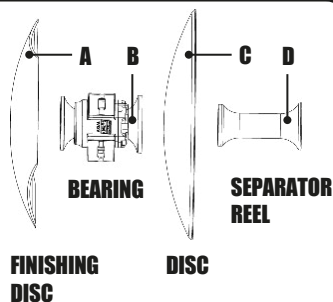
■ Assembly

• Assembling the disc sections - MOVERE 108 discs

See below the assembly of the disc sections of the **MOVERE 108** discs.



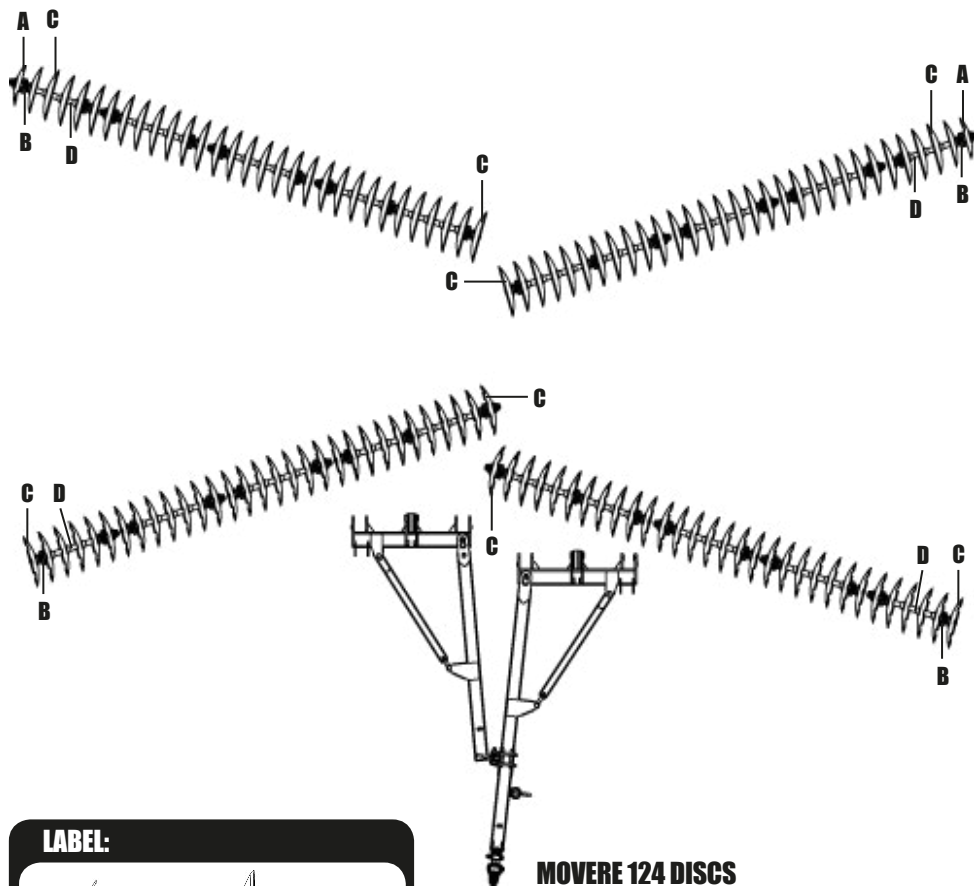
LABEL:



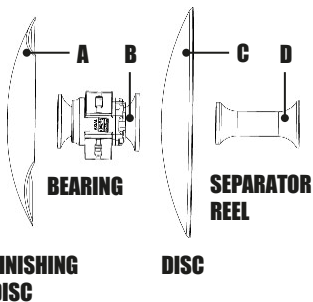
▪ Assembly

• Assembling the disc sections - MOVERE 124 discs

See below the assembly of the disc sections of the **MOVERE 124** discs.



LABEL:

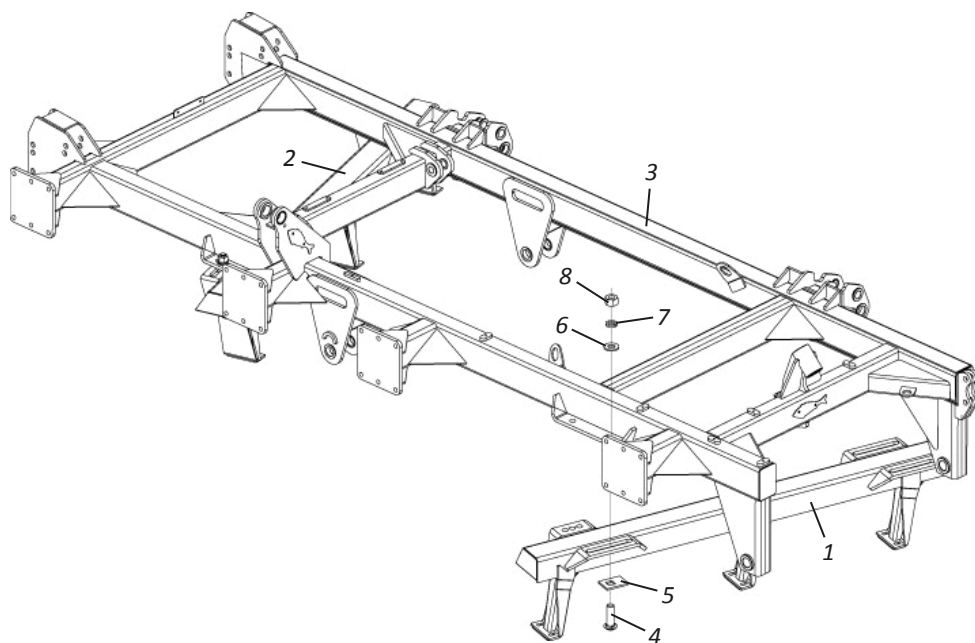


■ Assembly

• Mounting the frames in the left center frame

Start the assembly of **MOVERE** by the left central frame, for this, proceed as follows:

- 1** - Place the front (1) and rear (2) frames in a clean, flat location.
- 2** - Then install the upright (3) on the front (1) and rear (2) frames by fixing them through the bolt (4), lock (5), plain washer (6), washer (7) and nut (8).



Repeat the above procedure for mounting the frames in the center right frame.

▪ Assembly

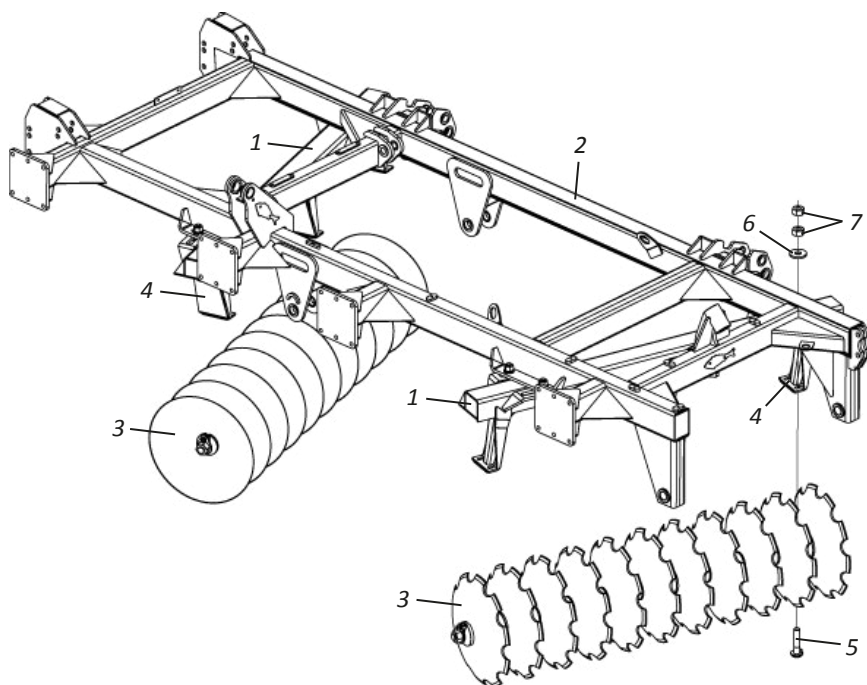
• Assembling the disc sections on the central frames

After fixing the frames (1) to the upright (2), secure the disc sections (3) to this, proceed as follows:

1 - Lift the front or rear of the grid and place the disc section (3) in line and match the drilling of the shoes (4) with those of the bearings and secure them with screws (5), plain washers (6), nuts and locknuts (7).

2 - Then, lift the other part of the grill and repeat the operation by checking the concavity of the disks from one section to the other that should be opposite.

3 - When completing the assembly, make sure that the shoes (4) face the discs' concavity.



WARNING

When assembling the disc sections on the frames, note that the frame shoes should face the discs' concavity.



NOTE

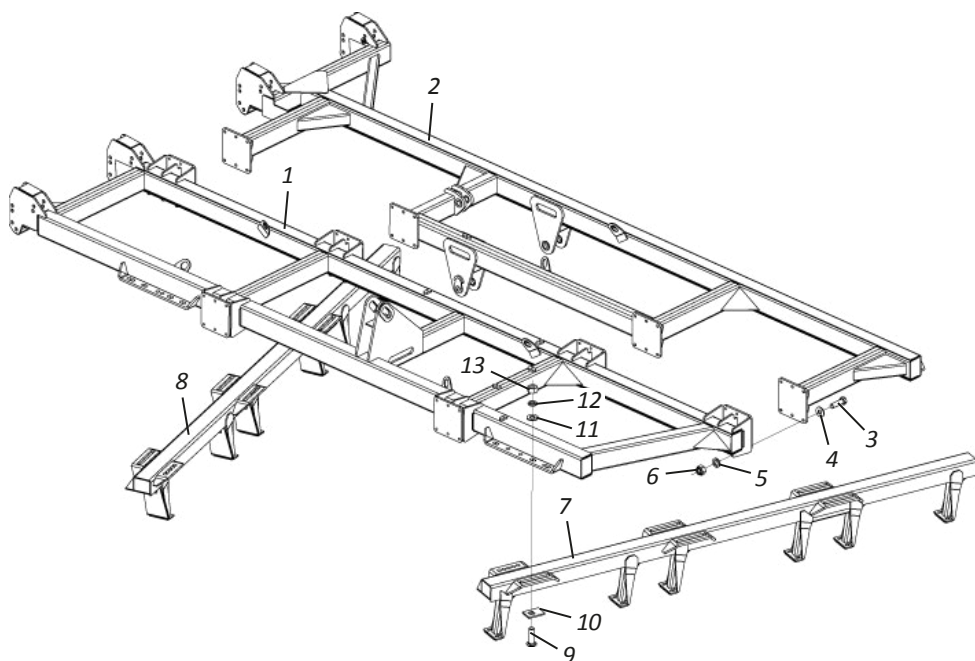
Repeat the above procedure for assembling the disc sections in the right-center uprights.

▪ Assembly

• Assembling the left and left side intermediate uprights and the frames

Then mount the left-hand upright (1) on the left-hand side upright (2) to do this, proceed as follows:

- 1** - Attach the left-hand upright (1) to the left-hand upright (2) by fastening it through the bolts (3), plain washers (4), lock washers (5) and nuts (6).
- 2** - Then, place the front (7) and rear (8) frames in a clean, flat location.
- 3** - Then attach the uprights (1 and 2) over the front (7) and rear (8) frames by securing them through the screw (9), lock (10), flat washer (11), washer (12), and nut (13).



Repeat the above procedure for assembling the right-hand upright, the right-hand upright and the frames on the uprights.

▪ Assembly

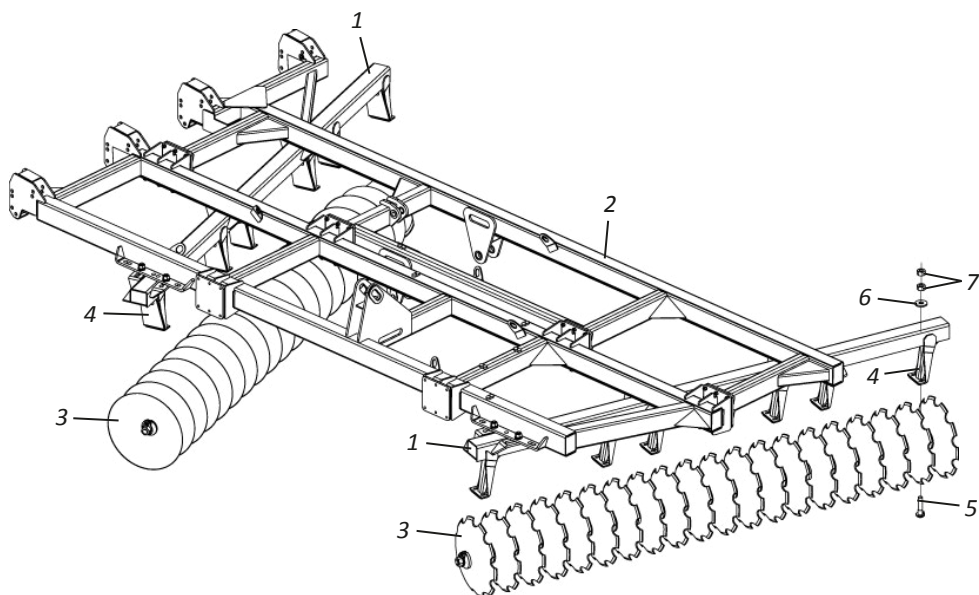
• Assembly of the disc sections on the frames of the left intermediate and left side

After fixing the frames (1) to the upright (2), secure the disc sections (3) to this, proceed as follows:

1 - Lift the front or rear of the grid and place the disc section (3) in line and match the drilling of the shoes (4) with those of the bearings and secure them with screws (5), plain washers (6), nuts and locknuts (7).

2 - Then, lift the other part of the grill and repeat the operation by checking the concavity of the disks from one section to the other that should be opposite.

3 - When completing the assembly, make sure that the shoes (4) face the discs' concavity.



WARNING

When assembling the disc sections on the frames, note that the frame shoes should face the discs' concavity.



NOTE

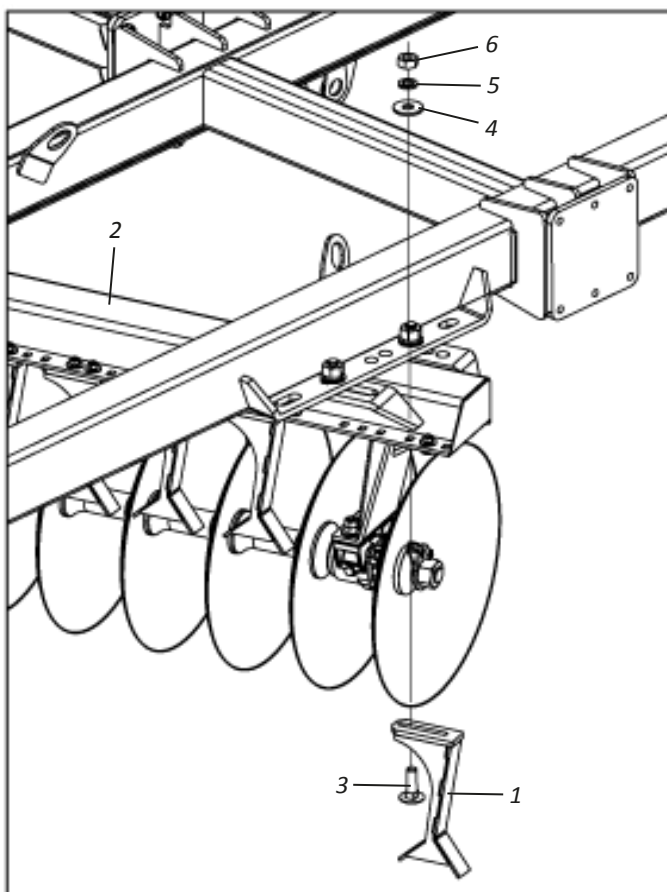
Repeat the above procedure for mounting the disc sections on the right side uprights.

■ Assembly

• Assembly of the cleaners

After assembling the disc sections in the frames, fix the wiper blades (1) to do so, proceed as follows:

01 - Place the wiper blades (1) on the frames (2), using flat washers (4), lock washers (5) and nuts (6) using the screws (3).



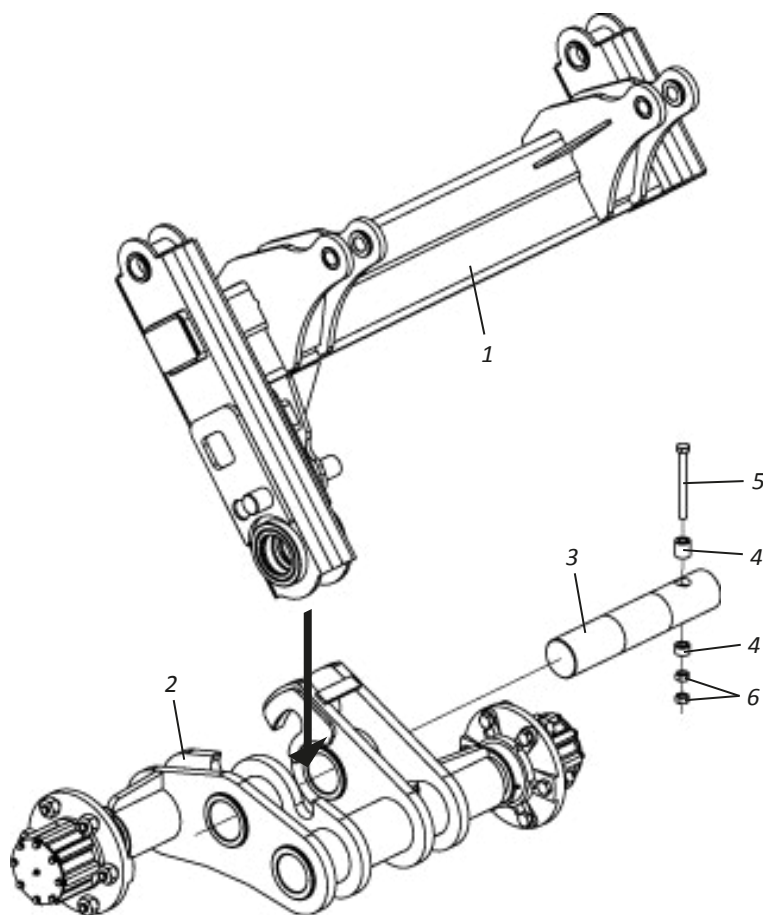
When assembling the cleaners, they should be 0.5 to 1.0 cm away from the disks.

▪ **Assembly**

• **Mounting the right center bracket of the wheel axle**

To mount the right center bracket of the wheel spindle (1), proceed as follows:

- 1** - Attach the right wheel hinge bracket (2) to the right center bracket of the wheel axle (1) and install the shaft (3).
- 2** - Then, lock the shaft (3) through the bushings (4), bolt (5), nut and locknut (6).



NOTE

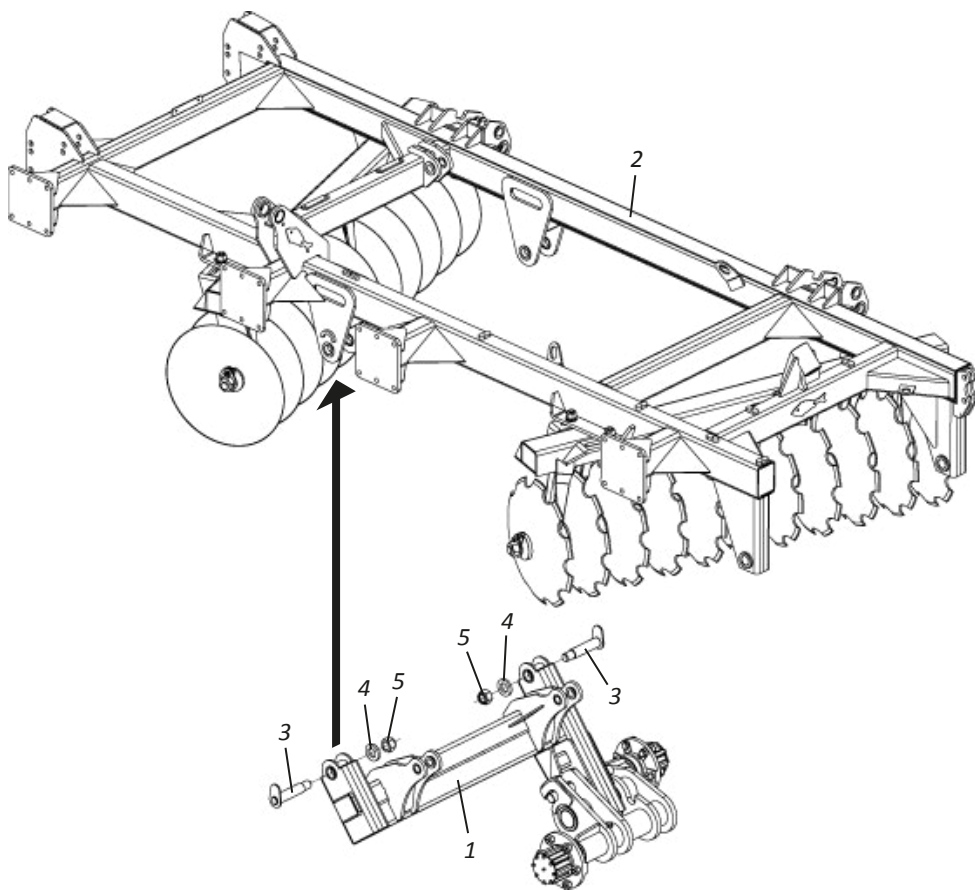
Repeat the above procedure for mounting the left center bracket and the right and left side brackets of the wheel axle.

▪ Assembly

• Mounting the left center bracket of the wheel axle on the frame

After mounting the center and side brackets, fix the left center bracket of the wheel axle (1) upside down to do this, proceed as follows:

01 - Attach the left center bracket of the wheel spindle (1) upright (2) through the pins (3), lock washers (4) and nuts (5).



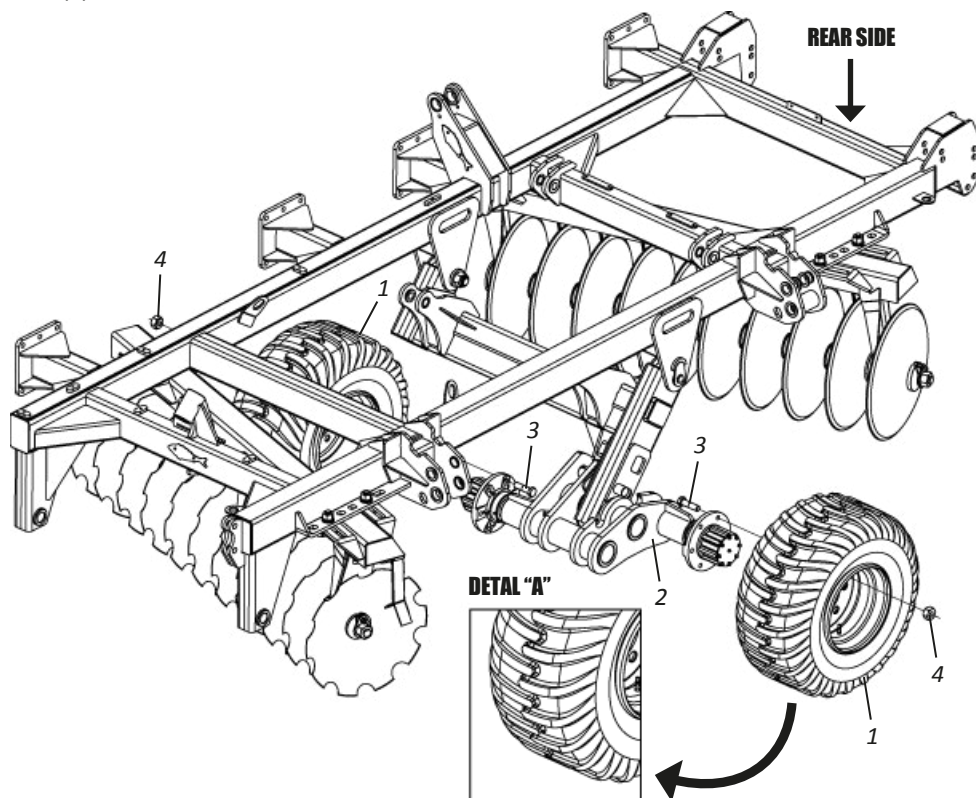
Repeat the above procedure for mounting the right center bracket and the right and left side brackets of the wheel axle on the upright.

▪ Assembly

• Installation of tyres

After assembling the central and lateral supports, fix the tyres (1) for this purpose, proceeding as follows:

01 - Attach the tires (1) to the left center bracket of the wheel axle (2) through the bolts (3) and nuts (4).



! WARNING | All tires must be mounted with anti-traction, that is to say, with the forks facing the front of **MOVERE** as shown in detail "A".

NOTE | Repeat the above procedure for mounting the tires on the right center bracket and on the right and left side brackets of the wheel axle.

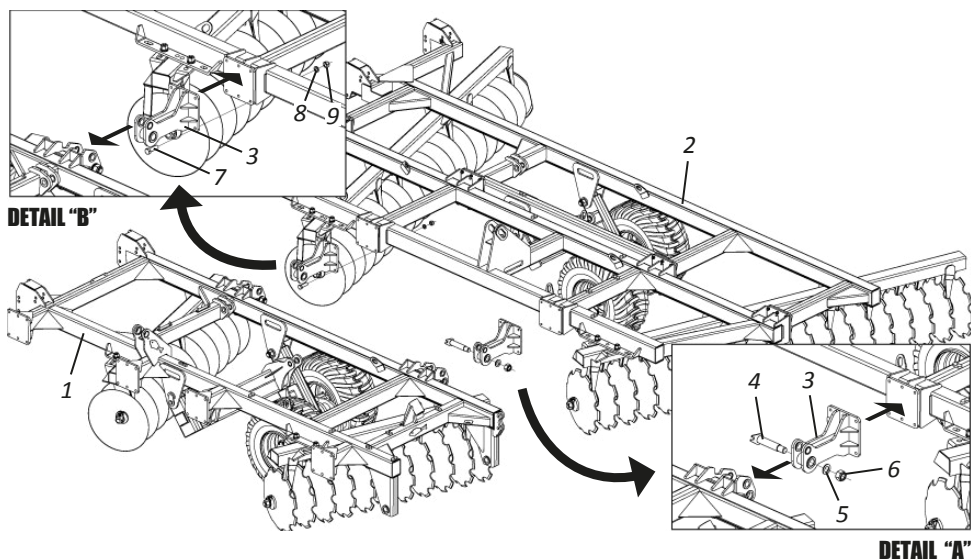
■ Assembly

• Mounting the frames union bracket

After assembling the tires, lock the central frame (1) in the intermediate frame (2), proceed as follows:

01 - Attach the frames union bracket (3) between the right center post (1) and the left center post (2) through the pin (4) flat washer (5) and the nut (6), as shown in detail "A".

02 - Then insert the bolts (7) lock washers (8) and nuts (9), as shown in detail "B".



WARNING

When working or transporting MOVERE, it must be provided with the coupling brackets (3) mounted on the back and front. DO NOT work or transport MOVERE with only one assembled mounting bracket, avoiding risks of accident or damage to MOVERE.

NOTE

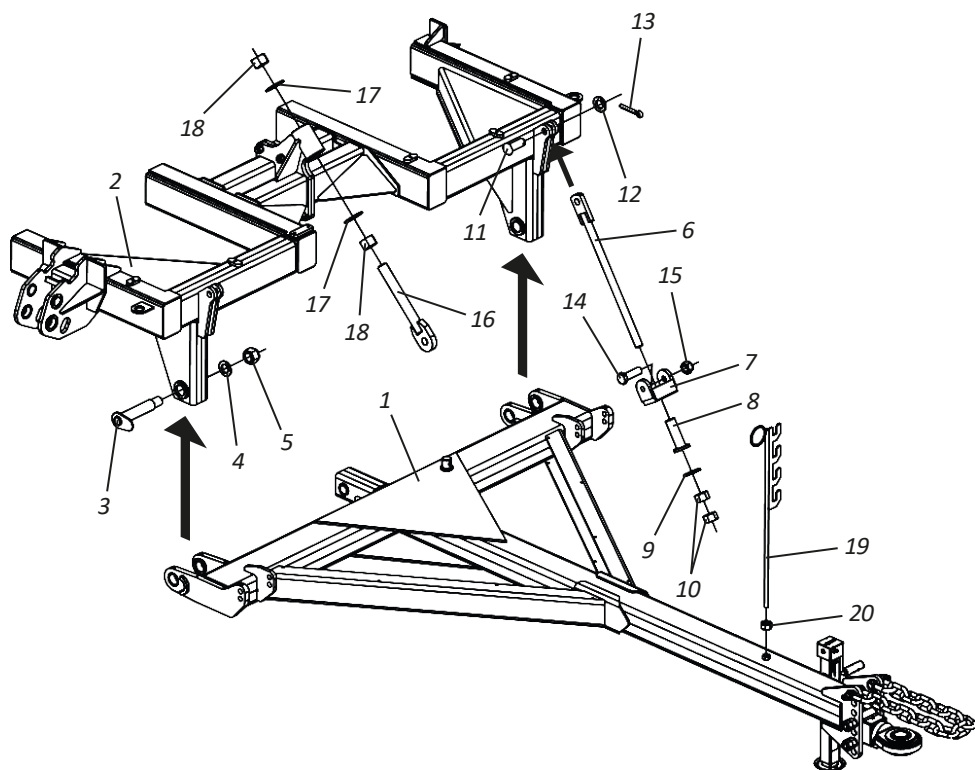
Repeat the above procedure to mount the lock on the center right and middle right brackets.

▪ Assembly

• Assembly of the coupling header - MOVERE 88 discs

To assemble the coupling header, proceed as follows:

- 01** - Attach the coupling header (1) to the upright (2), fixing through the pins (3), flat washers (4) and nuts (5).
- 02** - Then, attach the rod (6) to the rod support (7), spring back (8), flat washer (9) and nuts (10).
- 03** - Then, fix the rod base (6) to the upright (2) through the pin (11), flat washer (12) and cotter pin (13) and fix the rod support (7) to the coupling header (1) through the screws (14) and nuts (15).
- 04** - Then, fix the regulator (16) to the upright (2) using the flat washers (17) and nuts (18).
- 05** - Finish by fixing the hose support (19) on the coupling header (1) through the nut (20).

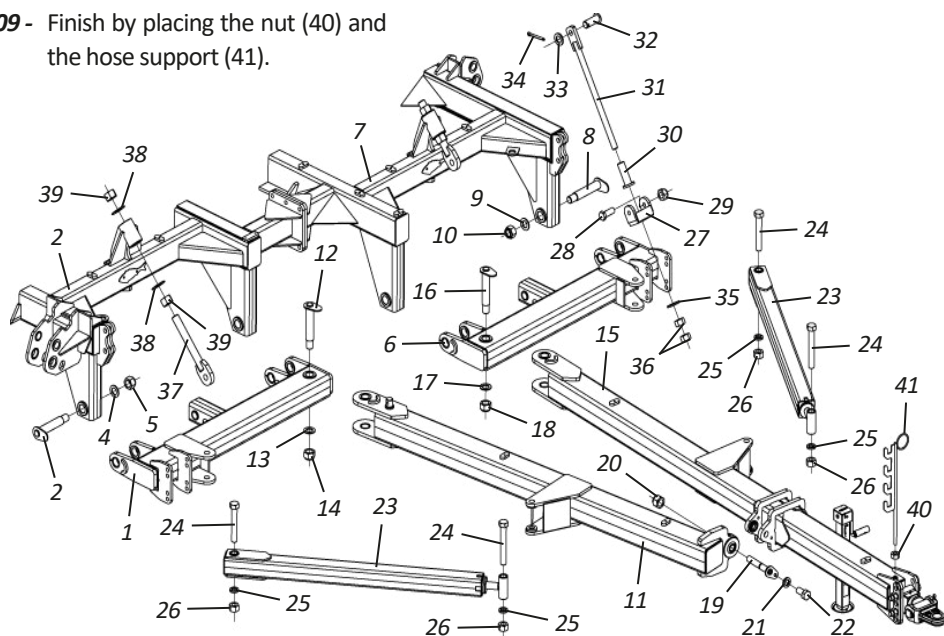


▪ Assembly

• Assembly of the coupling header - MOVERE 108 and 124 discs

To assemble the coupling header, proceed as follows:

- 01** - Engage the right transverse bar (1) in the center right frame (2) through the pins (3), plain washers (4) and nut (5).
- 02** - Then, engage the left transverse bar (6) in the left center (7) through the pins (8), plain washers (9) and the nut (10).
- 03** - Then, attach the header attachment bar (11) to the right crossbar (1) through the pin (12), flat washer (13) and nut (14).
- 04** - Then, attach the header (15) to the left transverse bar (6) through the bolt (16), plain washer (17) and nut (18).
- 05** - Lock the header (15) on the union bar of the header (11) through the pin (19), nut (20) and washer (21) and bolt (22).
- 06** - Then, install the adjusters (23), securing them through the bolts (24), pressure washers (25), nuts (26).
- 07** - Then, secure the support 27 through the screw 28 and nut 29 and place the bushing 30 on the rod 31, securing with the pin 32 a flat washer 33, cotter pin (34), plain washers (35) and nuts (36).
- 08** - Then attach the rod (37) and secure with the plain washers (38) and nuts (39).
- 09** - Finish by placing the nut (40) and the hose support (41).

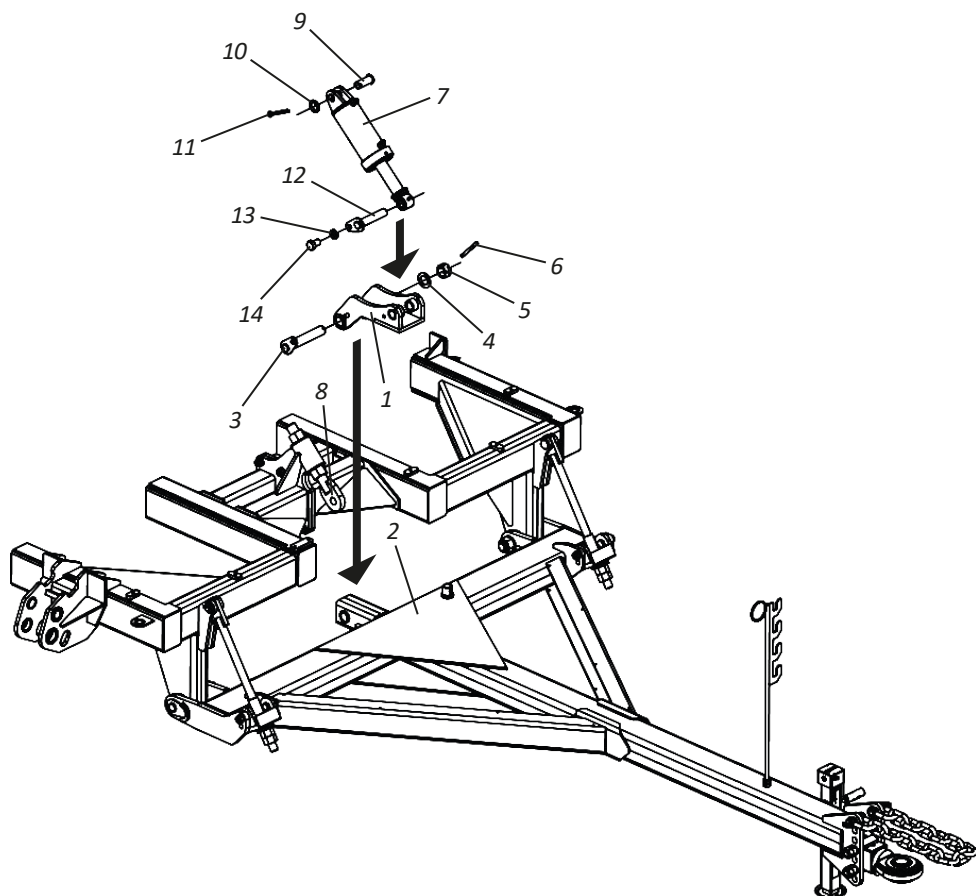


▪ Assembly

• Assembling of the hydraulic cylinders in the coupling header - MOVERE 88 discs

To mount the hydraulic cylinders in the coupling header, proceed as follows:

- 01** - Place the articulation support (1) on the coupling header (2) fixing through the pin (3), flat washer (4), castle nut (5) and cotter pin (6).
- 02** - Then, attach the base of the hydraulic cylinder (7) to the regulator (8) fixing through the pin (9), washer (10) and cotter pin (11).
- 03** - Then, attach the hydraulic cylinder rod (7) to the articulation support (1), through the pin (12), pressure washer (13) and screw (14).

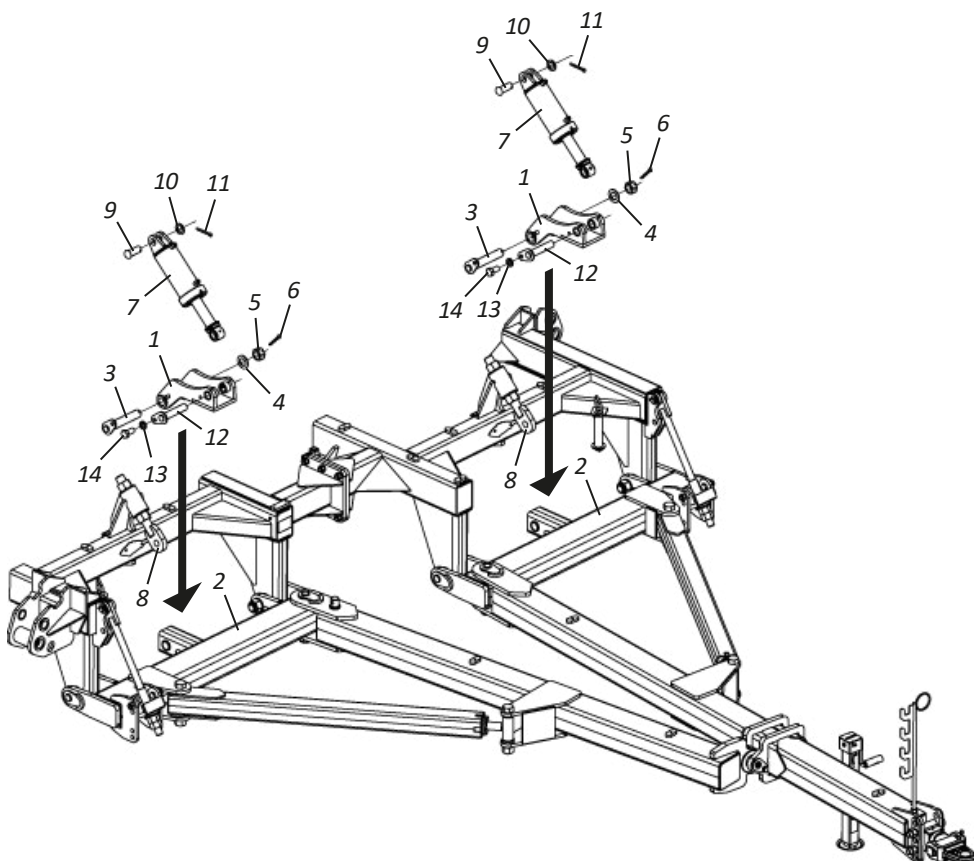


■ Assembly

• Assembling of the hydraulic cylinders in the coupling header - MOVERE 108 and 124 discs

To mount the hydraulic cylinders in the coupling header, proceed as follows:

- 01** - Attach the pivot brackets (1) to the crossbars (2) by fastening with pins (3), plain washer (4), castle nut (5) and cotter pin (6).
- 02** - Then, attach the hydraulic cylinder bases (7) to the adjusters (8) through the pins (9), plain washer (10) and cotter pin (11).
- 03** - Then, attach the rods of the hydraulic cylinders (7) to the hinge brackets (1) through the pins (12), lock washers (13) and screws (14).

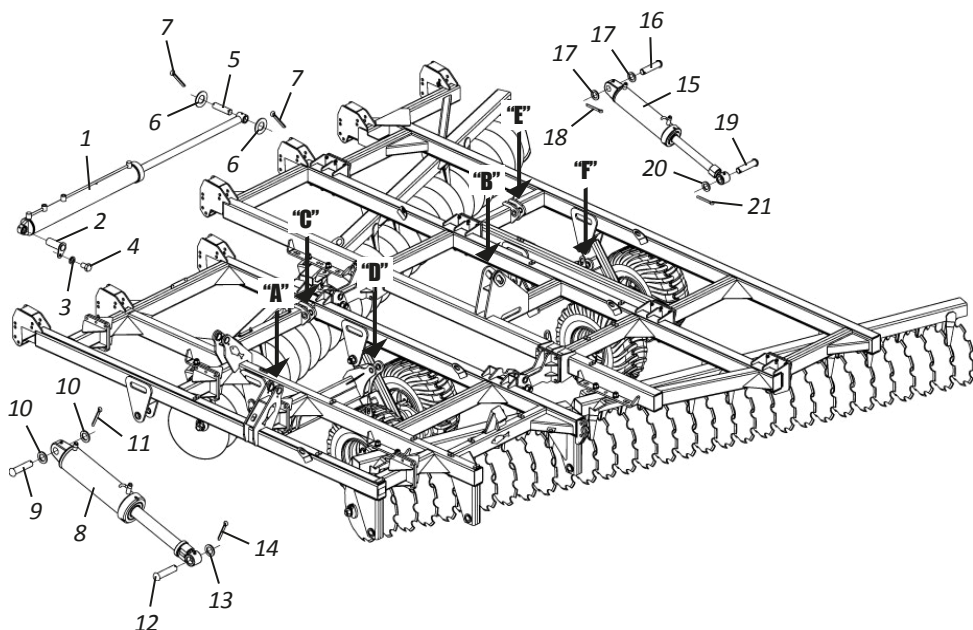


▪ Assembly

• Mounting the hydraulic cylinders on the uprights

To mount the hydraulic cylinders to the uprights, proceed as follows:

- 1** - Attach the base of the hydraulic cylinder (1) to the point "A", attaching through pin (2), washer (3), bolt (4) and the piston rod (1) at the point "B", through the pin (5), plain washers (6) and cotter pins (7).
- 2** - Then, attach the base of the hydraulic cylinder (8) to the point "C", attaching to pin (9), plain washers (10), cotter pin (11) and the rod of the hydraulic cylinder (8) at the point "D", through the pin (12), flat washer (13) and cotter pin (14).
- 3** - Then, attach the base of the hydraulic cylinder (15) to the point "E", attaching through the pin (16), plain washers (17), cotter pin (18) and the rod of the hydraulic cylinder (15) at the point "F", through the pin (19), washer (20) and cotter pin (21).



NOTE

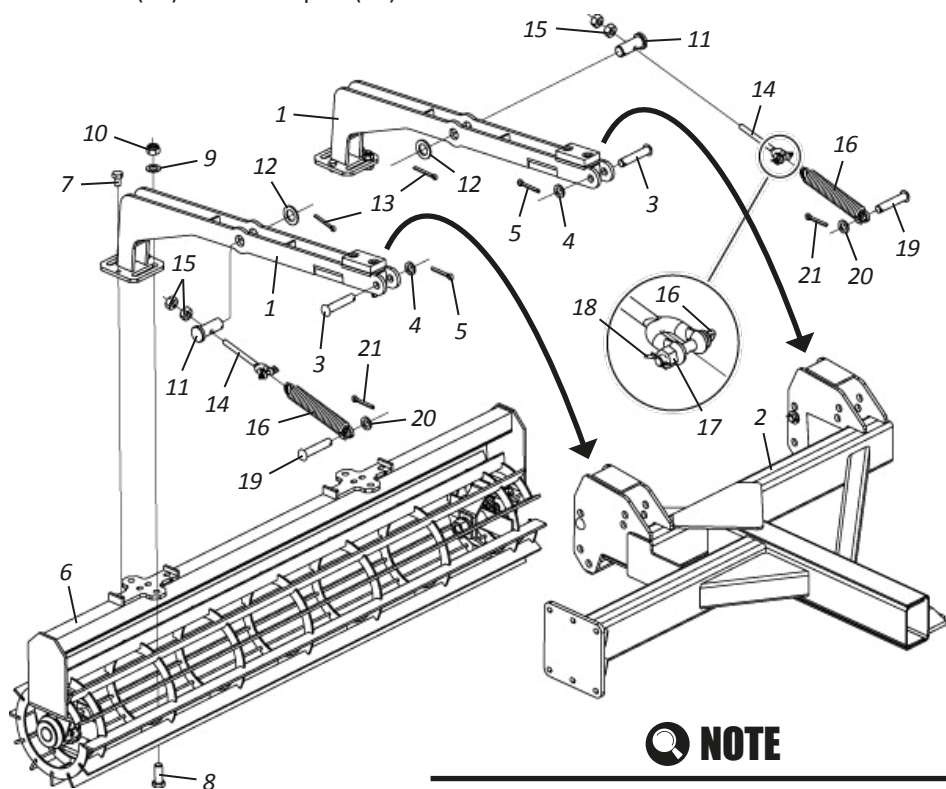
Repeat the above procedure to mount the hydraulic cylinders in the center right, middle right and right side posts.

■ Assembly

• Mounting the tillage rollers

To mount the tillage rollers to the uprights, proceed as follows:

- 1** - Attach the brackets (1) to the upright (2) by fastening with the pins (3), plain washers (4), cotter pins (5).
- 2** - Then, secure the screwdriver roller (6) to the brackets (1) through the bolts (7) and the bolts (8), lock washers (9) and nuts (10).
- 3** - Then, place the pins (11) on the brackets (1) by locking them through the plain washers (12) and cotter pin (13).
- 4** - Then attach the forks (14) on the pins (11) through the nuts and locknuts (15), engage one end of the springs (16) on the forks (14) through the pins (16), nuts (17) and cotter pins (18) and the other end of the fashions (16) on the upright (2) by fixing through the pins (19), flat washers (20) and cotter pins (21).

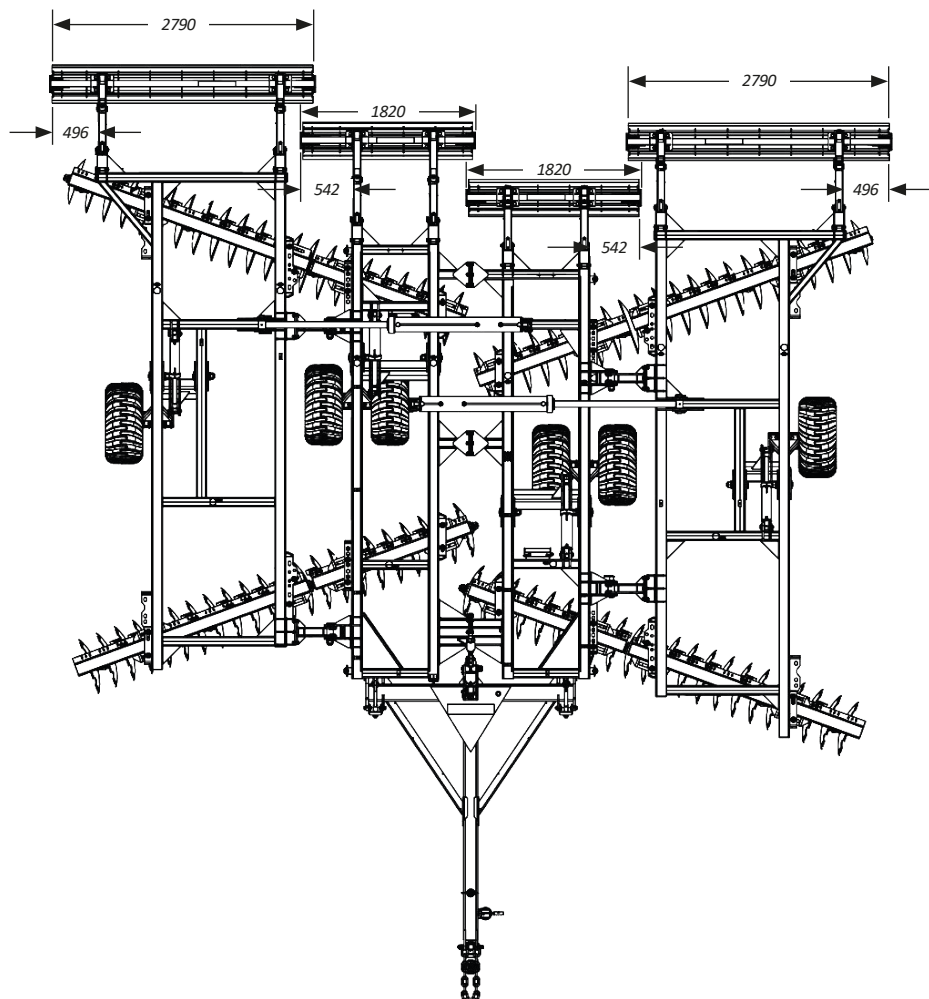


NOTE

Repeat the above procedure to mount the tillage rollers on all other frames.

▪ Assembly

- Mounting the tillage rollers - MOVERE 88 discs

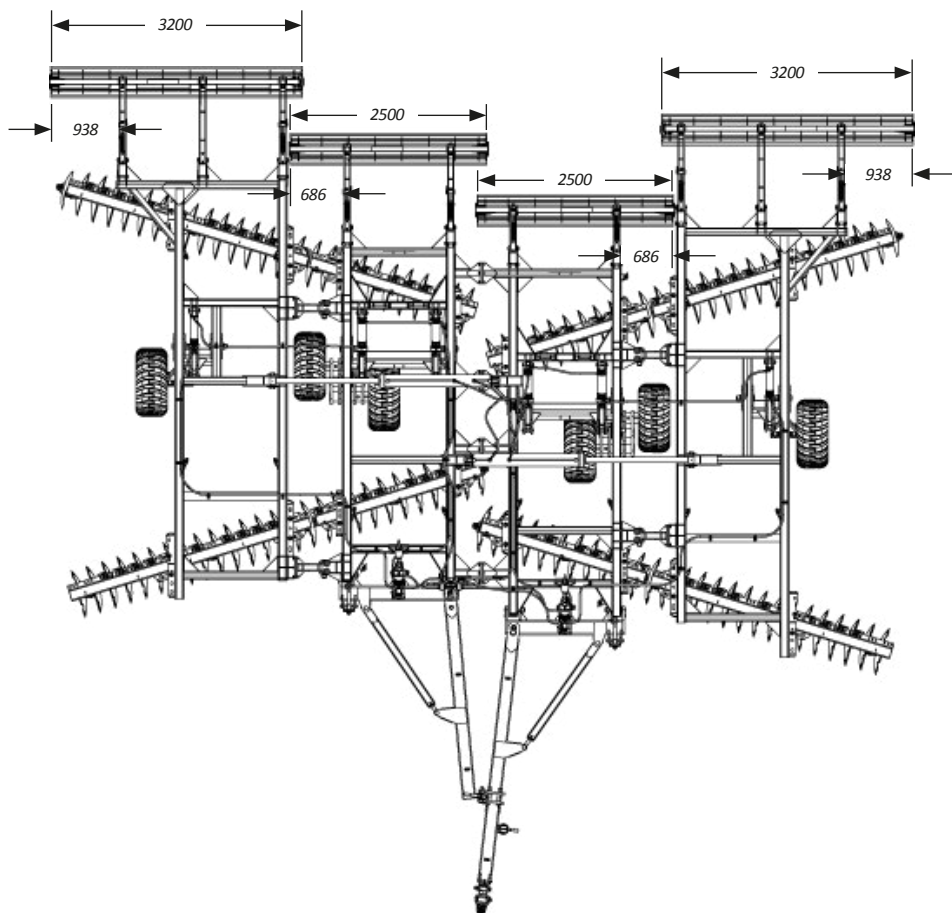


WARNING

For the perfect operation of the tillage rollers, when assembling them, respect the above measures.

■ Assembly

- Mounting the tillage rollers - MOVERE 108 discs

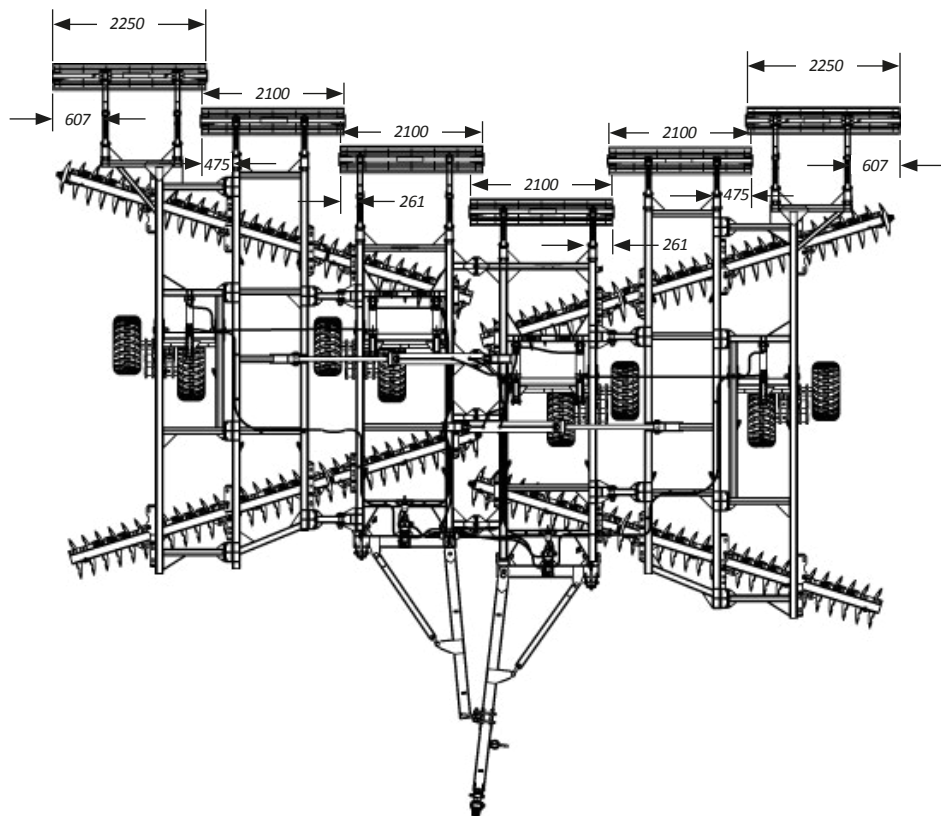


WARNING

For the perfect operation of the tillage rollers, when assembling them, respect the above measures.

▪ Assembly

- Mounting the tillage rollers - MOVERE 124 discs



WARNING

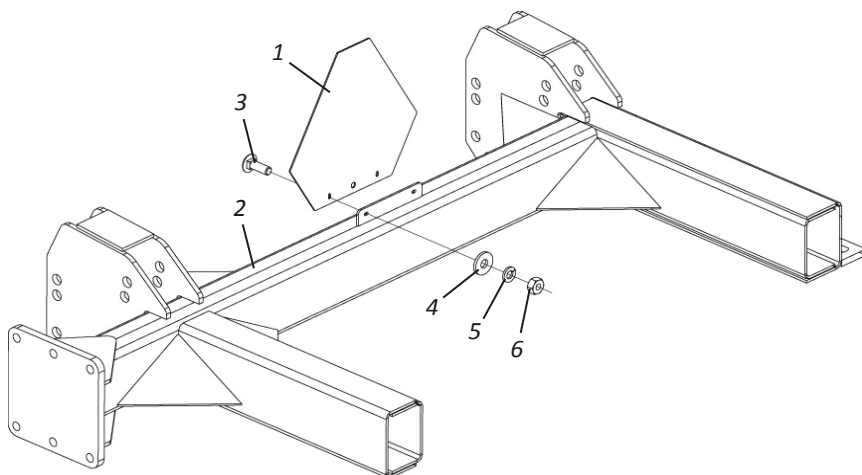
For the perfect operation of the tillage rollers, when assembling them, respect the above measures.

▪ Assembly

• Mounting of signage

To mount the signage on the uprights, proceed as follows:

01 - Secure the signage (1) in the center left frame (2) through the bolts (3), plain washers (4), lock washers (5) and nuts (6).



WARNING

DO NOT work or transport **MOVERE**, especially on highways without the signage.

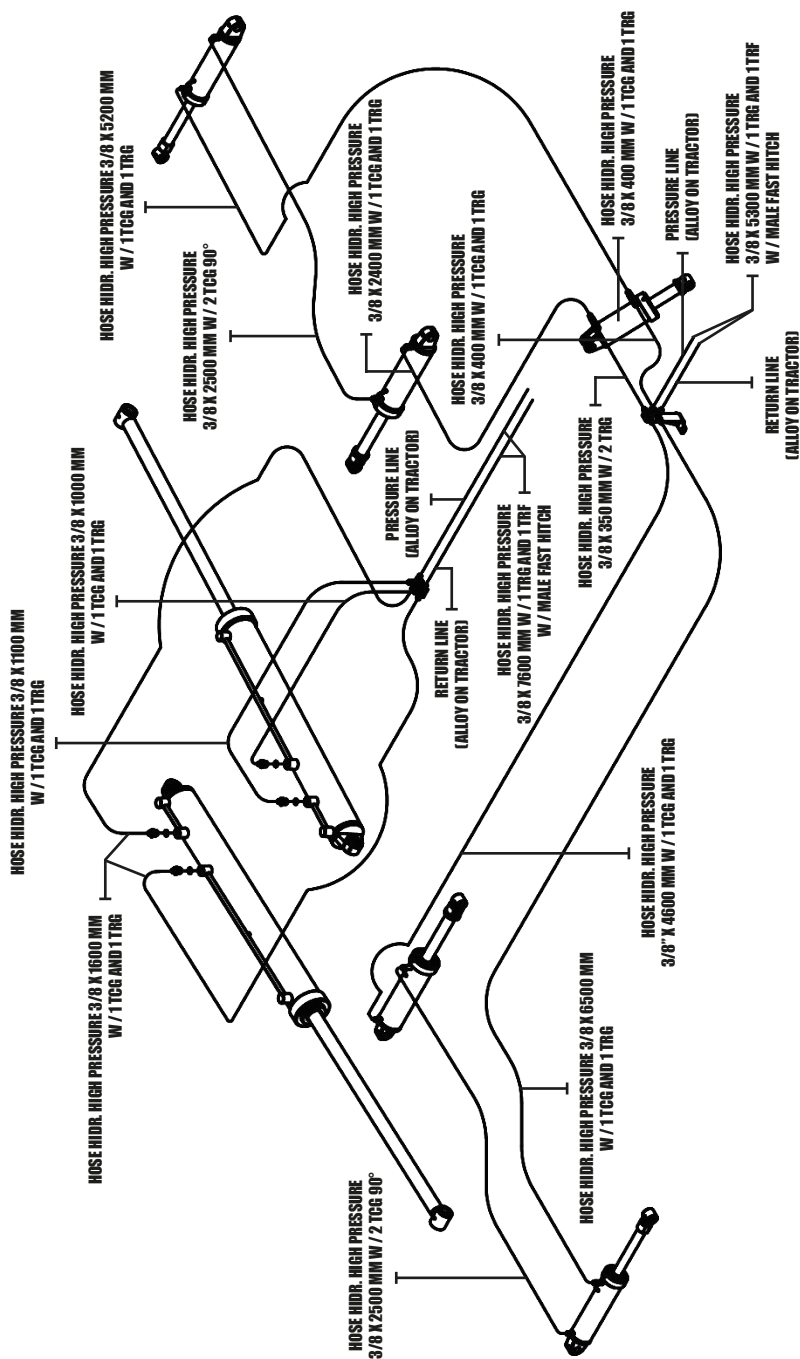


NOTE

Repeat the above procedure to mount the signage to the right center frame.

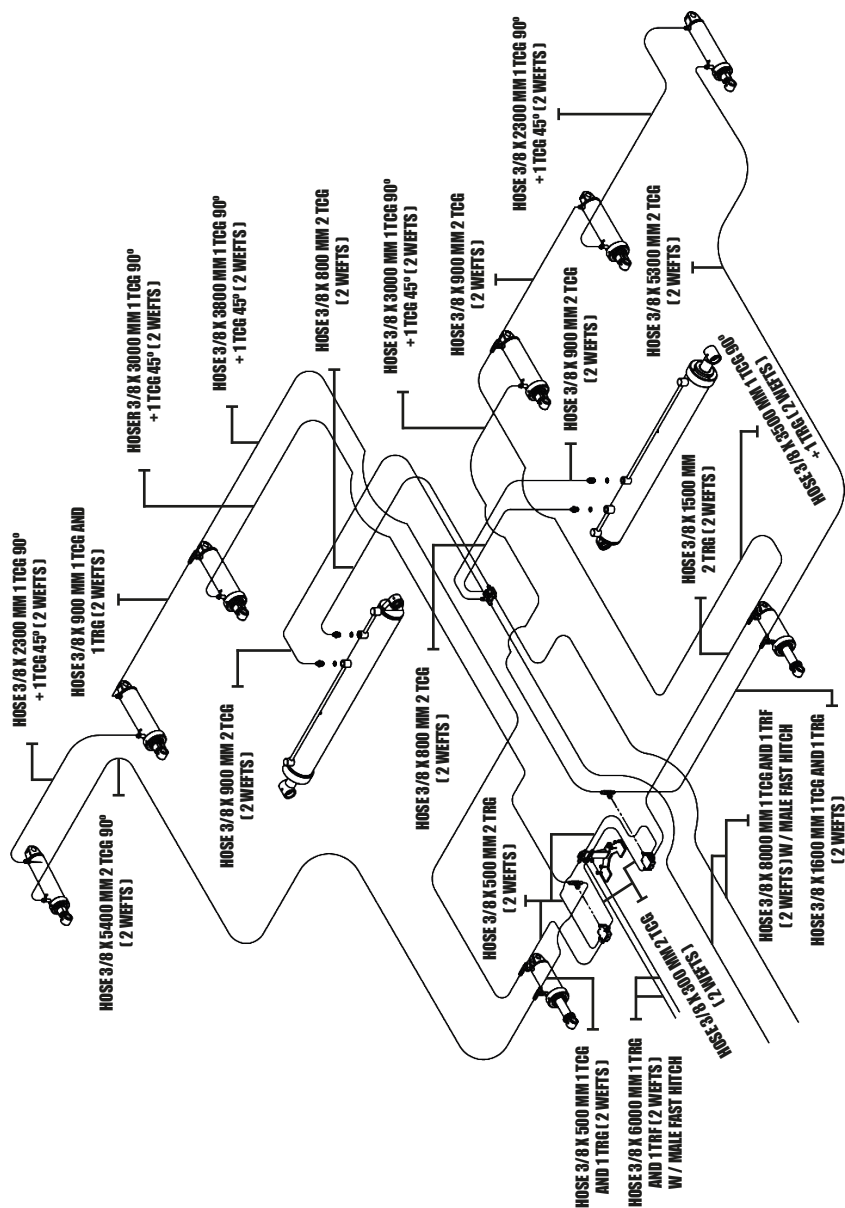
■ Assembly

MOUNTING THE HYDRAULIC SYSTEM - MOVERE 88 DISCS



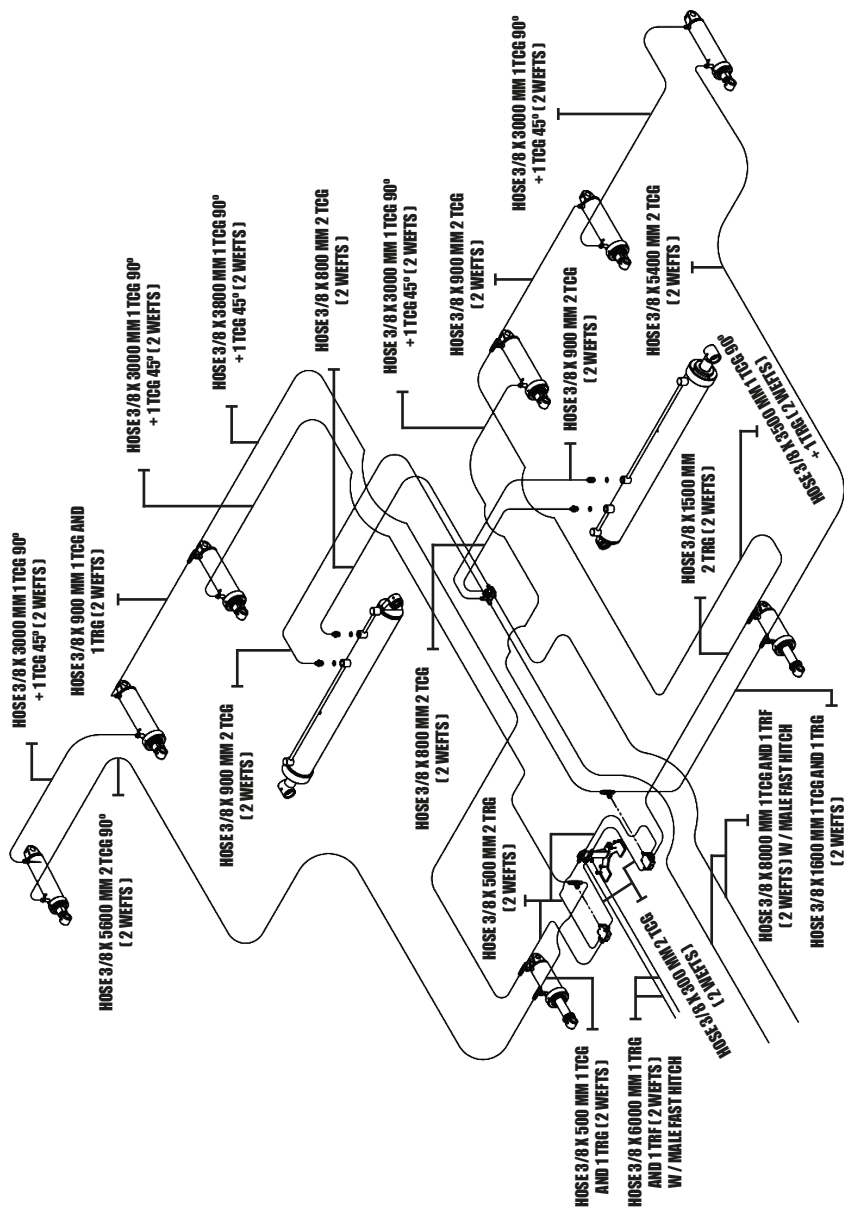
■ Assembly

MOUNTING THE HYDRAULIC SYSTEM - MOVERE 108 DISCS



■ Assembly

MOUNTING THE HYDRAULIC SYSTEM - MOVEVE 124 DISCS

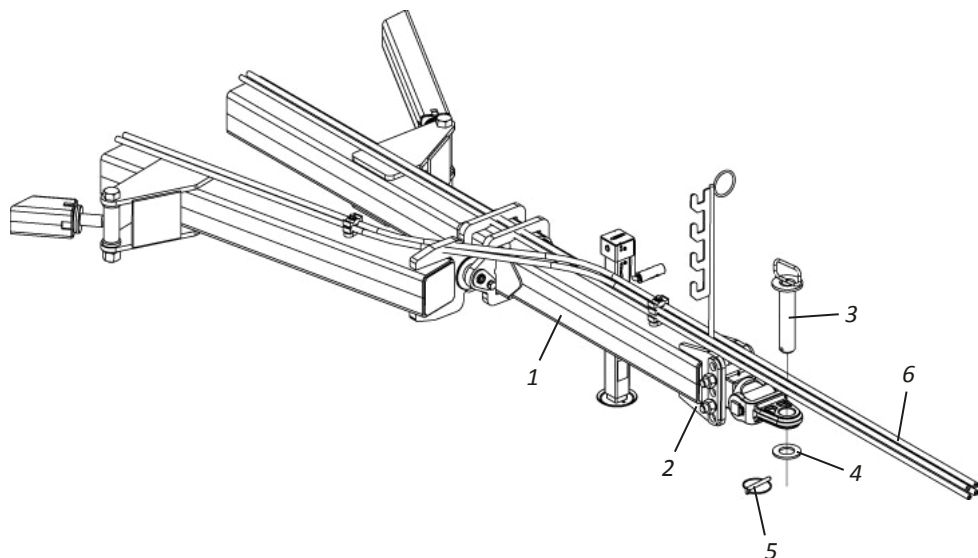


▪ Coupler

COUPLER OF THE DISK HARROWS ON THE TRACTOR TRACTION BAR

To couple the MOVEIRE, proceed as follows:

- 1** - Level the coupling header (1) of MOVEIRE in relation to the coupler of the tractor through adjustments (2) of the coupling jumbo. Then slowly approach the tractor in the reverse gear, paying attention to the application of the brakes.
- 2** - Proceed the coupling of MOVEIRE to the tractor by securing it through the coupling pin (3), flat washer (4) and lock (5).
- 3** - Finish by attaching the hoses (6) to the tractor quick coupler.



! IMPORTANT

When engaging MOVEIRE, look for a safe and easily accessible place. Always use a low gear with low acceleration.

▪ Levelling

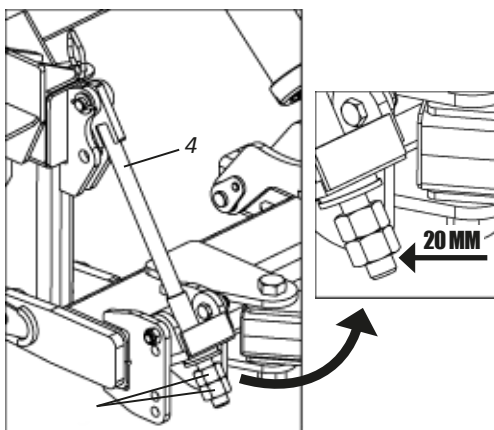
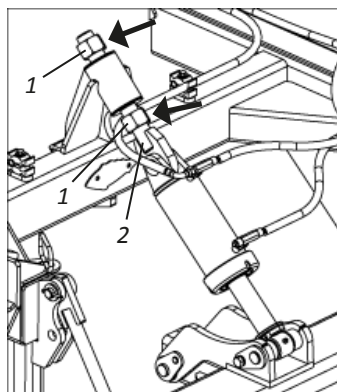
DISK HARROWS LEVELING - PART I

To level the **MOVE**RE, proceed as follows:

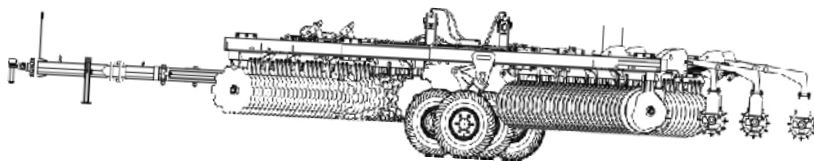
01 - Place the tractor and the **MOVE**RE in a flat location.

02 - Then, before lifting the **MOVE**RE, loosen the nuts (1) of the center rods (2) until half way.

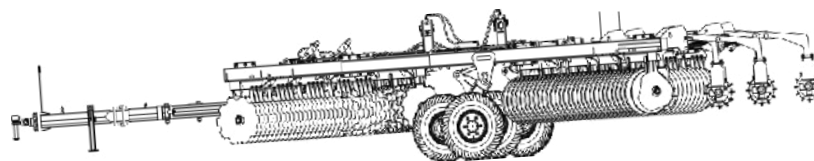
03 - Then, loosen the nuts and locknuts (3) of the header rods (4), leaving them at a distance of 20 mm from the face of the rods



04 - Then, lift the disk harrows up and check if **MOVE**RE is positioned at the front or at the rear.



MOVE RE POSITIONED IN THE REAR



MOVING POSITIONED ON THE

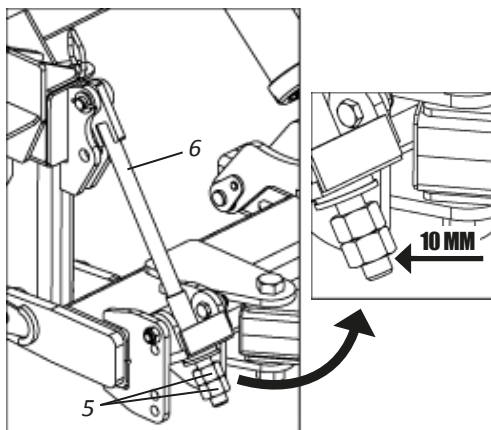
05 - Depending on the position **MOVE**RE is at, make the following adjustments:

▪ Levelling

DISK HARROWS LEVELING - PART II

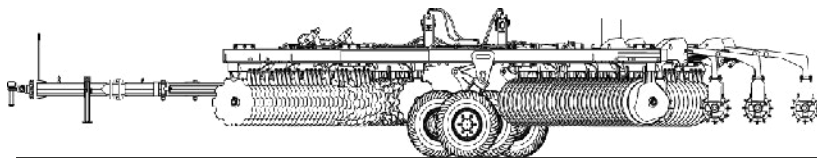
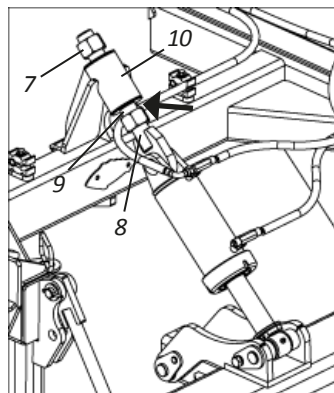
06 - REAR POSITION:

When **MOVE** is in this position, lower it by first lowering the hydraulic system. Then tighten the nuts and locknuts (5) of the head mounts (6) every 10 mm. Then, operate the hydraulic system to raise **MOVE** and check its position. If you still need to adjust it, re-tighten it by tightening the nuts and bolts (5) + 10 mm and then lift it and check again. Repeat this procedure until **MOVE** stays level.



07 - FRONT POSITION:

When **MOVE** is in this position, first lower it by lowering the hydraulic system. Then, loosen the upper nuts (7) of the center rods (8) every 10 mm. Then tighten the lower nuts (9) until it touches the face of the bushing (10). Then, operate the hydraulic system to raise **MOVE** and check its position. If you still have to adjust it, lower it again by releasing the upper nuts (7) + 10 mm and then lift it and check again. Repeat this procedure until **MOVE** stays level.



MOVE IN A LEVELED POSITION



WARNING

The measures mentioned in the leveling are initial parameters for the leveling of **MOVE**,

▪ **Adjustments**

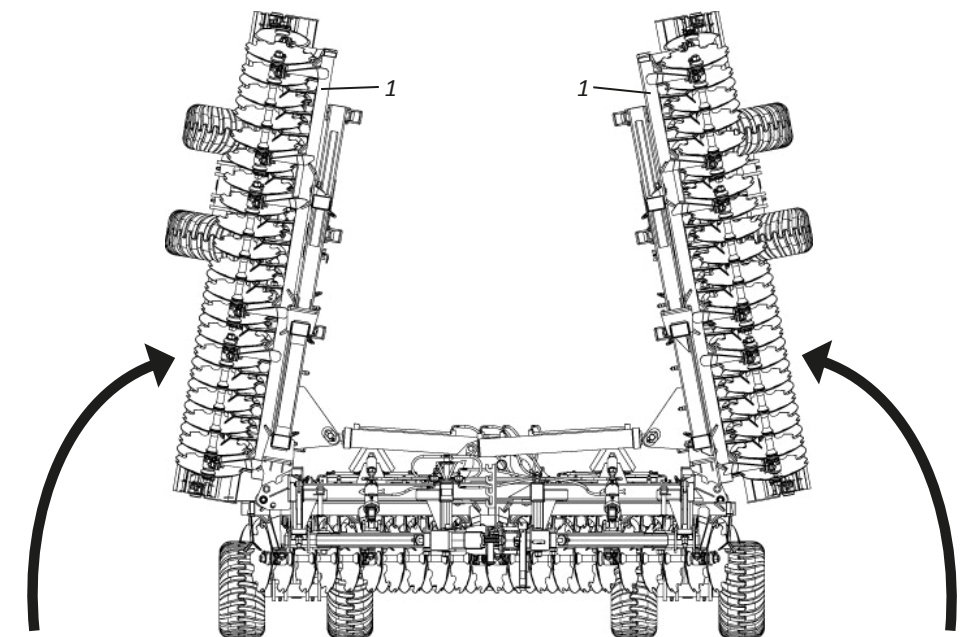
• **Adjustments for transportation - Part I**

Before any operations with **MOVE**RE, read the following information:

- ⚠ When starting the hydraulic process for the first time, there is a greater need for hydraulics of the tractor. Observe the hydraulic oil level of the tractor during the 1st operation.
- ⚠ Before starting **MOVE**RE, check the adjustment of the oil flow so that the gear does not couple abruptly, causing damage to the disk harrows.
- ⚠ When starting **MOVE**RE, if necessary, complete the hydraulic oil level of the tractor. Check the manufacturer's technical manual of the tractor.
- ⚠ Slow down the oil flow.

Before transporting the **MOVE**RE, proceed as follows:

01 - Attach the side frames (1).

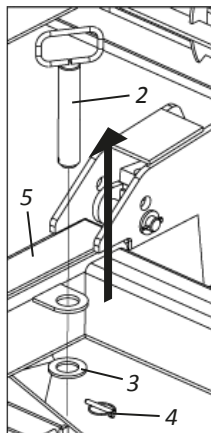


At the end of articulation, **DO NOT** let people fall under the side frames (1) or their area of action.

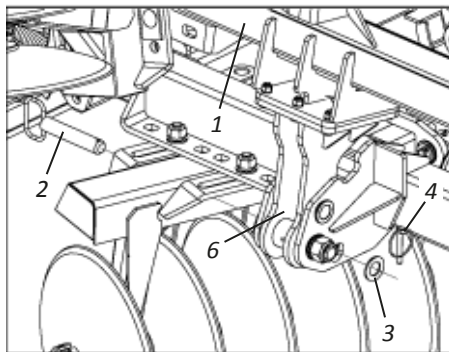
▪ Adjustments

• Transport regulations - Part II

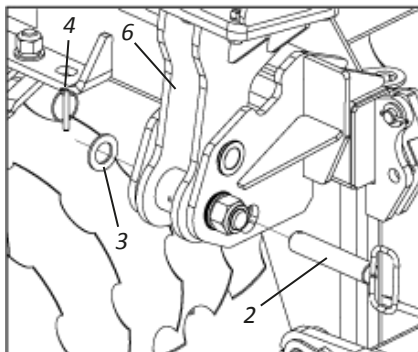
2 - Then remove the pins (2) plain washers (3) and locking locks (4) attached to the central studs (5).



3 - Then, place the pins (2) plain washers (3) and locking locks (4) on the brackets (6) by locking the side frames (1).



REAR SUPPORT



BACK SUPPORT

WARNING

Do not transport the **MOVERE** without locking the side frames (1).

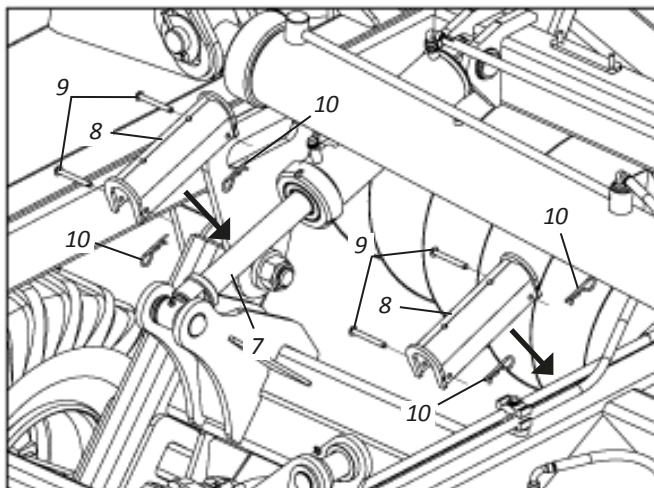
Do not transport **MOVERE** with only one bracket locked. Always lock the 2 brackets together (front and rear) of each side frame.

At the end of transporting **MOVERE**, remove the pins (2), leaving the side frames (1) free to start the movement. Ignoring these warnings could cause serious injury or damage to **MOVERE**.

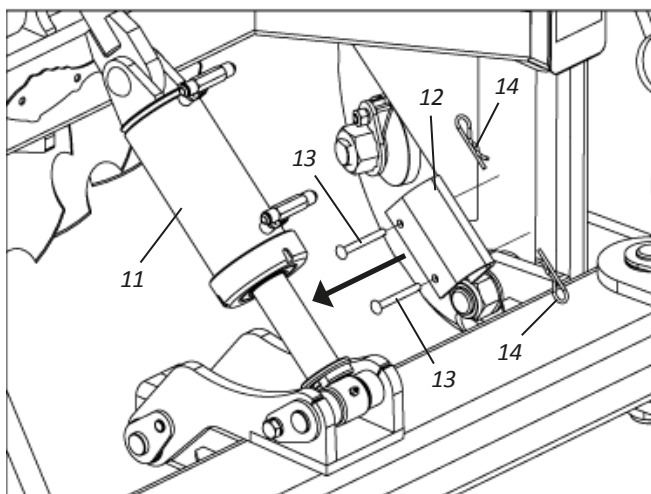
▪ Adjustments

• Regulations for transportation - Part III

4 - Then fully activate the stroke of the hydraulic cylinders (7) of the circlip, place the locks (8) and secure them with the pins (9) and locks (10).



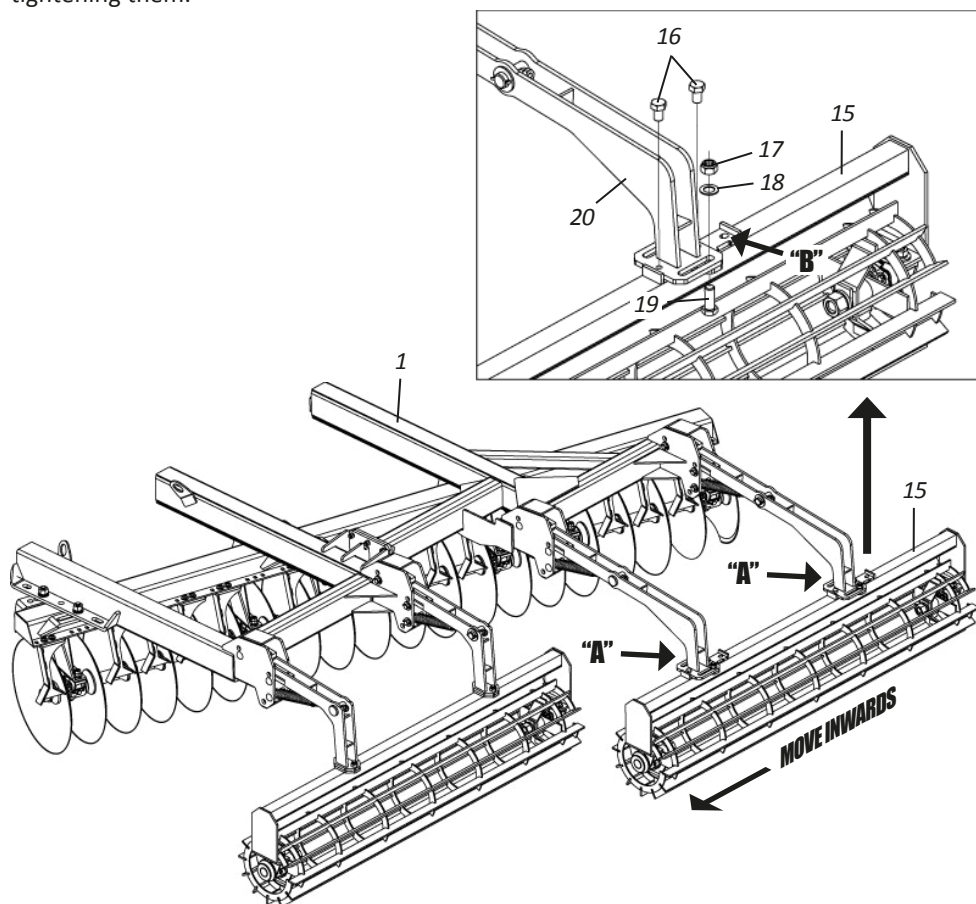
5 - Then fully actuate the stroke of the hydraulic cylinders (11) of the header, place the locks (12) and secure them with the pins (13) and locks (14).



▪ Adjustments

• Regulations for transportation - Part IV

06 - Before commencing shipping, check the height of **MOVE**. If it is necessary to reduce this height a little, the side frames (1) have tillage rollers (15) with adjustments as indicated by the points "A". To adjust the tillage rollers (15), first loosen the screws (16). Then unscrew the nuts (17), plain washers (18) and the bolts (19) and move the tillage rollers (15) until the hole in the holder (20) is aligned with the hole point "B". Then retighten the nuts (17), plain washers (18) and the bolts (19) and replace the bolts (16) tightening them.



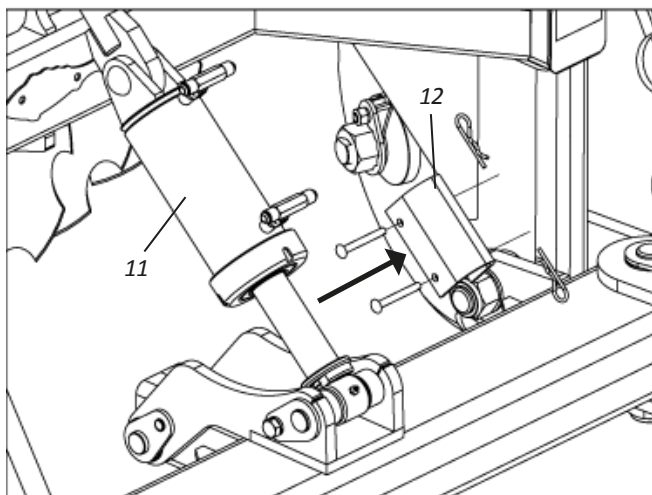
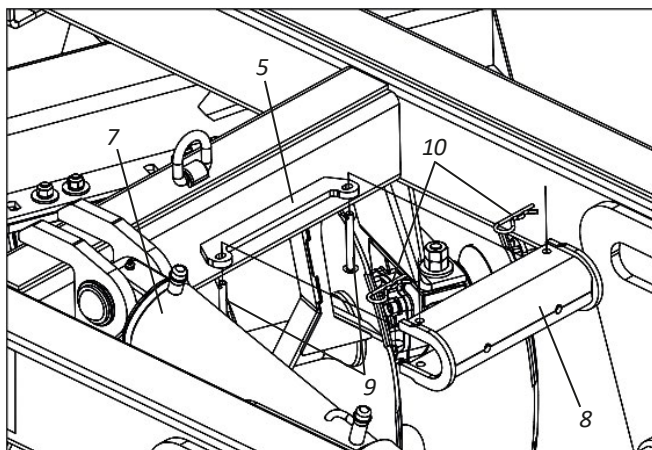
NOTE

Make the same adjustment on the other tillage roller on the left side frame.

▪ Adjustments

• Transport adjustments - Part V

07 - When the **MOVERE** is transported, remove the locks (8) from the hydraulic cylinders (7) and fix them to the central uprights (5) through the pins (9) and locks (10). Also remove the locks (12) of the hydraulic cylinders (11) from the header.



WARNING

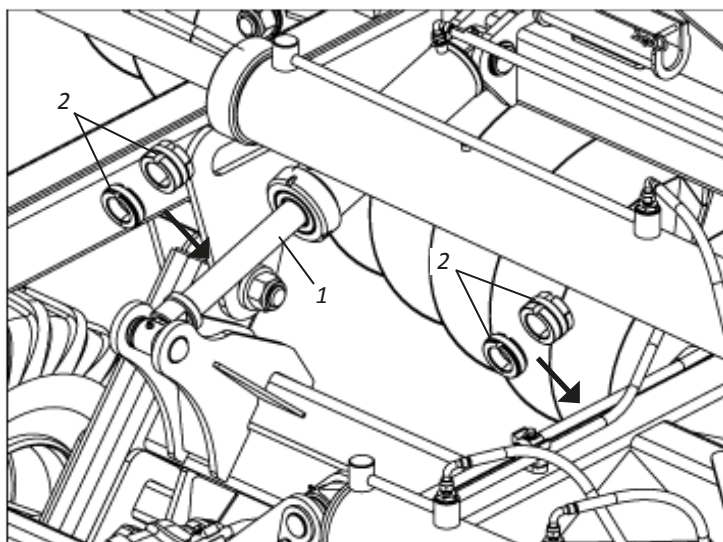
Do not transport **MOVERE** without placing the latches on the hydraulic cylinders. (7) of the wheel and the hydraulic cylinders (11) of the header. Ignoring this warning can cause damage to the hydraulic cylinders.

▪ Adjustments

• Working depth adjustment

To regulate the working depth of **MOVE**RE, proceed as follows:

- 1** - Activate the rods of the hydraulic cylinders (1) of the wheel until necessary.
- 2** - Then, set the limiting rings (2) on the rods of the hydraulic cylinders (1) to fill the entire space between the rod coupling and the hydraulic cylinder (1).
- 3** - After completing the work with **MOVE**RE, remove the limiting rings (2) from the hydraulic cylinders (1) of the wheel.



WARNING

Always place the same number of limiting rings (2) on the hydraulic cylinders (1) of the wheel.

IMPORTANT

After adjustment, **MOVE**RE will always operate in the same depth, both in hard and loose terrain, because the limiting rings (2) are limiting the stroke of the hydraulic cylinder (1) of the wheel, that is, preventing oscillation of the wheels.

NOTE

The limiting rings (2) that come with **MOVE**RE have different sizes which combined offer various depth settings.

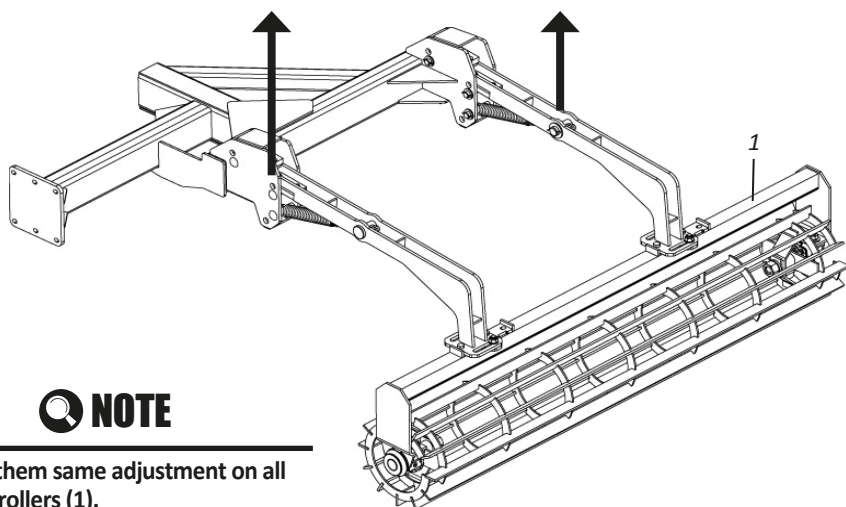
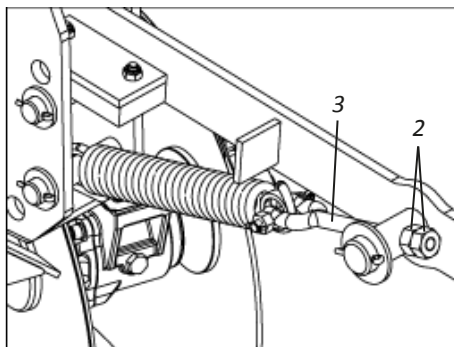
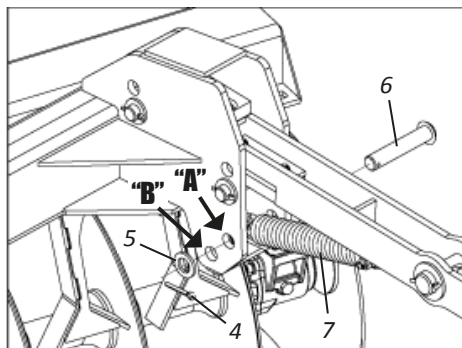
▪ Adjustments

• Pressure regulator of the tillage roller - Part I

After adjusting the working depth, adjust the pressure of the tillage rollers (1). There are two adjustment options for the tillage rollers: **HIGHER PRESSURE** and **LESSER PRESSURE**.

HIGHER PRESSURE:

- 1** - Dig the discs into the ground to the specified depth.
- 2** - Then increase the pressure of the tillage rollers (1) by tightening the nuts and cotter nuts (2) of the rods (3).
- 3** - If you still need to increase the pressure, loosen the cotter pin (4), flat washer (5), remove the pin (6) and change the spring (7) of the point "A" to point "B" and attach it again.



NOTE

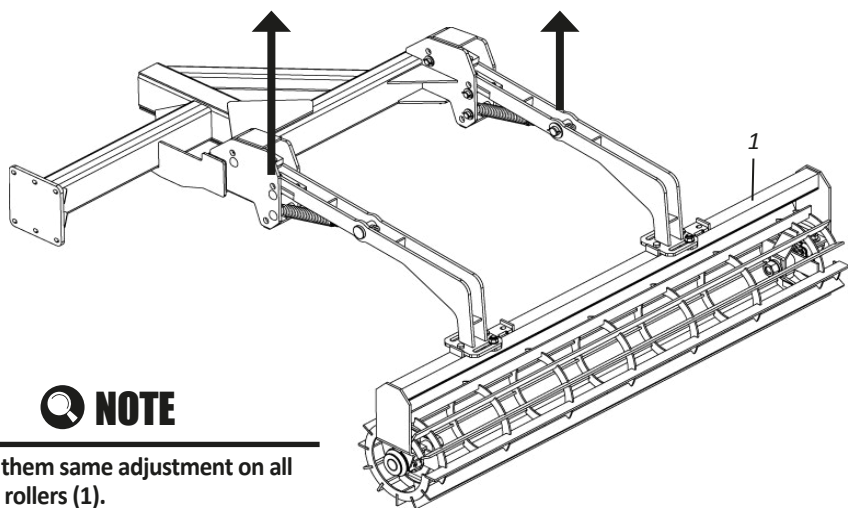
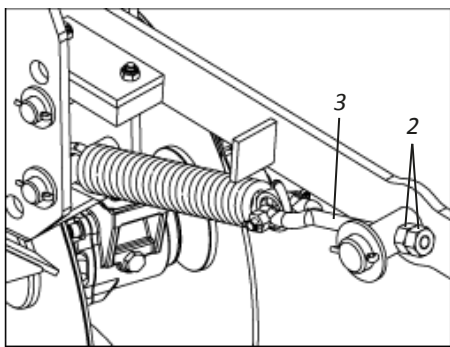
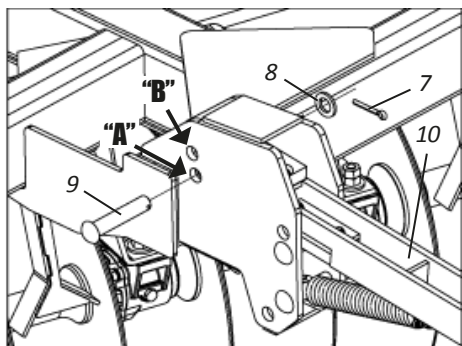
Make them same adjustment on all tillage rollers (1).

▪ Adjustments

• Pressure regulator of the tillage roller - Part II

LESSER PRESSURE:

- 1 - Dig the discs into the ground to the specified depth.
- 2 - Then, reduce the pressure of the tillage rollers (1) by loosening the nuts and locking nuts (2) of the rods (3).
- 3 - If you still need to reduce the pressure, loosen the cotter pin (7), flat washer (8), remove the pin (9) and change support (10) of point "A" to point "B" and attach it again.



NOTE

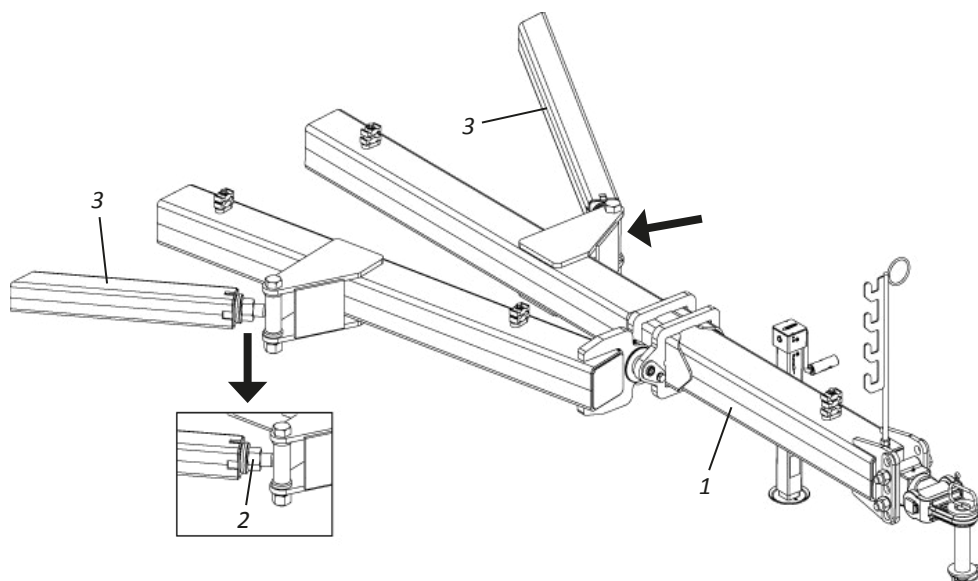
Make them same adjustment on all tillage rollers (1).

▪ Adjustments

• Grid centering adjustment

To centralize **MOVERE**, adjust the coupling header (1), as follows:

01 - According to the adjustment to be made, tighten or loosen the nut (2) of the header adjuster (3) until you reach the desired setting.



WARNING

Before starting work with **MOVERE**, make sure that the nuts (2) are well locked.

▪ Operations

• Recommendations for operation - Part I

The preparation of **MOVE**RE and the tractor will allow you to save time in addition to a better result in field work. The following suggestions may be helpful to you.

HARROW DISCS GRID STRUCTURE

After the first day of work with **MOVE**RE, retighten all bolts, nuts and check the condition of the bolts and latches of the grid structure. Then perform a general tightening on all bolts and nuts in the grid structure every 24 hours of work.

DISC SECTIONS

Special attention should be given to the **MOVE**RE discs. Re-tighten all bolts and nuts of the disc sections daily during the first week of use. Then, re-tighten the screws and nuts on the disc sections periodically.

GENERAL RECOMMENDATIONS

- 1 - Adjust the tractor according to the contents of the instruction manual, always using the front and rear weights to stabilize the equipment.
- 2 - Couple the tractor always in a low gear and very carefully.
- 3 - When using **MOVE**RE, it is important to check the coupling system and transverse leveling to make sure that the discs will have the same depth of penetration in the ground.
- 4 - After hitching and leveling, the next adjustments will be made directly in the field of work, analyzing the terrain in its texture, humidity and the types of operations to be done with **MOVE**RE.
- 5 - On the tractor, choose a gear that allows you to maintain a certain power reserve, guaranteeing power against unforeseen efforts.
- 6 - Observe the specified working and transport speeds on page 00. We do not advise you to exceed the speeds in order to maintain service efficiency and avoid possible damages to **MOVE**RE.
- 7 - When executing maneuvers in the headwheels, first actuate the hydraulic cylinders gradually by lifting the disc sections.
- 8 - During harrowing (with the discs on the ground), do not make right or left hand maneuvers, since the angles formed by the disc sections will transmit a great force, especially on the traction components.

■ Operations

• Recommendations for operation - Part II

- 9 - Do not disengage any hoses without first relieving the circuit pressure by turning the control levers a couple of times with the engine off.
- 10 - Remove pieces of wood or any other object that can be attached to the discs.
- 11 - In compacted ground where the penetration of the discs is difficult, the depth may be minimal, making work unsatisfactory. In these cases, the application of other more suitable products is recommended.
- 12 - During work or transportation, the tractor's drawbar must remain fixed.
- 13 - When performing any maintenance on **MOVERE**, you should lower it to the ground and turn off the engine.
- 14 - **MOVERE** has several settings, however, only local conditions can determine the best regulation of them.

If in doubt, never operate or handle **MOVERE**, consult your After Sales service.
Telephone: 0800-152577 / E-mail: posvenda@baldan.com.br

▪ Calculations

• Approximate hourly output

To calculate the approximate hourly output of **MOVE**RE, use the following formula:

$$A = \frac{L \times V \times F}{X}$$

FORMULA DATA:

A = Area to be worked

L = Grid working width (in meters)

V = Average tractor speed (in meters / hour)

F = Production factor: 0,90

X = Value of the hectare: 10,000 m² (the amount varies by region).

Example: A **MOVE**RE with 88 DISCS, how many Ha will be produced in one hour of work at an average speed of 7 km/h.

A = ?

L = 8,31m

V = 7.000 m/h

F = 0,90

X = 10,000 m² (Calculated in hectares)

$$A = \frac{8,31 \times 7.000 \times 0,90}{10.000} = 5,23 \text{ Ha/h}$$

Model	Number of Discs	Working width [mm]	Average Speed (m/h)	Production Factor	Approximate Production in Hectares Hour
MOVE RE	88	8315	7.000	0,90	5,23
	108	10253	7.000	0,90	6,45
	124	11815	7.000	0,90	7,44

The formula for calculating the approximate production refers to the calculation of areas to be worked or worked by **MOVE**RE. If you want to know the time that will be spent to work an area of a known value, just divide the value of this area by the daily output of **MOVE**RE.

Example: What "X" time will be spent for a **MOVE**RE disc harrows grid with 88 discs to produce 35 hectares at an average speed of 7km/h?

$$X = \frac{35 \text{ Ha}}{5,23 \text{ Ha/h}} = 6,69 \text{ hours approximately to work 35 hectares.}$$



WARNING

The hourly production of **MOVE**RE can vary by factors that alter the work rhythm as (soil moisture and hardness, terrain slope, inadequate adjustments and speed of work).

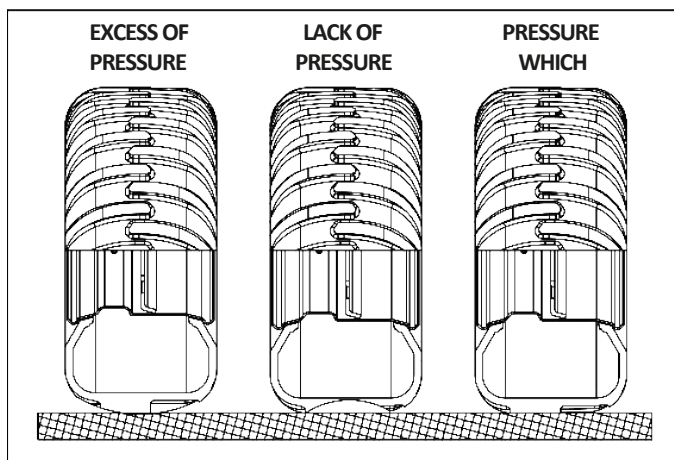
▪ Maintenance

MOVE has been developed to provide you with maximum performance over ground conditions. Experience has shown that the periodic maintenance of certain parts of the **MOVE** is the best way to help you avoid problems, so we suggest their verification.

• Tire pressure

Tires should always be properly calibrated avoiding premature wear due to excess or lack of pressure.

TYRES 400 X 60 14 TARPAULINS



USE: 52 LBS/POL²

WARNING

Never weld the tire-mounted wheel, heat may cause air pressure to rise and cause an explosion of the tyre.

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

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

Mount the tires with proper equipment. The service must be performed only by persons qualified for the job.

IMPORTANT

When calibrating tires, do not exceed the recommended calibration.

NOTE

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

▪ **Maintenance**

MOVERE has been developed to provide you with maximum performance over ground conditions. Experience has shown that the periodic maintenance of certain parts of the **MOVE**RE is the best way to help you avoid problems, so we suggest their verification.

• **Lubrication**

Lubrication is essential for good performance and a longer service life of the **MOVE**RE, contributing to the maintenance cost savings.

Before starting the operation, carefully lubricate all grease fittings, always observing the greasing intervals on the following page. Make sure about the lubricant quality, regarding its efficiency and purity, avoid using products contaminated by water, earth and other agents.

• **Grease and equivalents table**

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

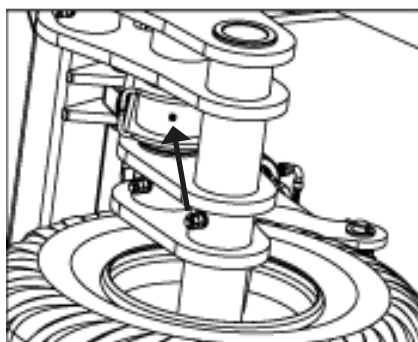
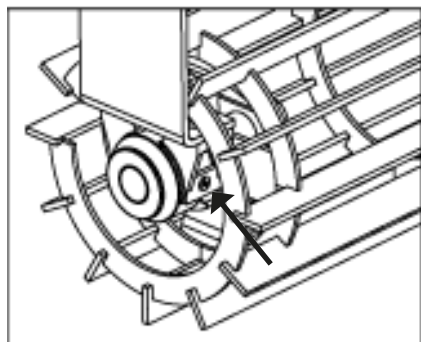
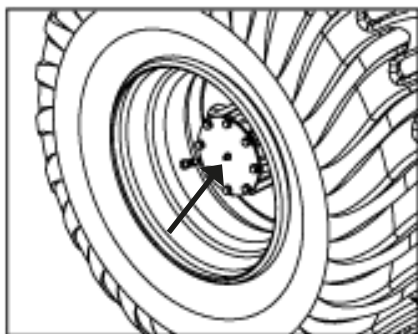
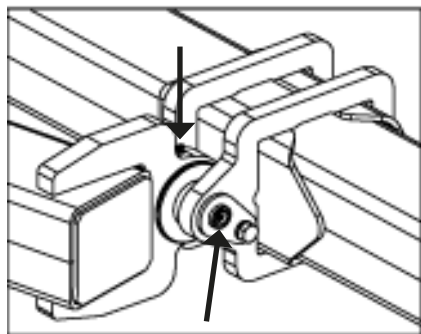
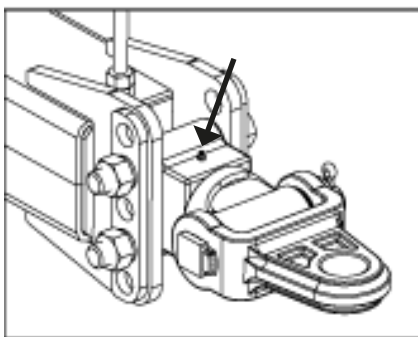
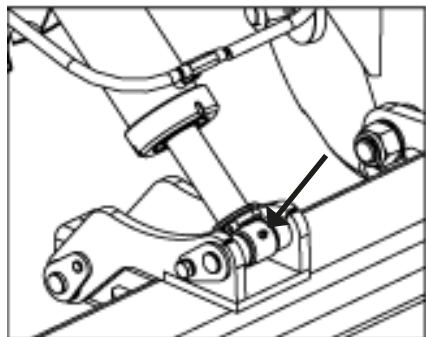


WARNING

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

▪ Maintenance

- Lubricate every 24 working hours - Part I

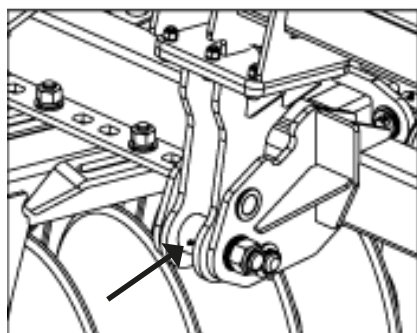
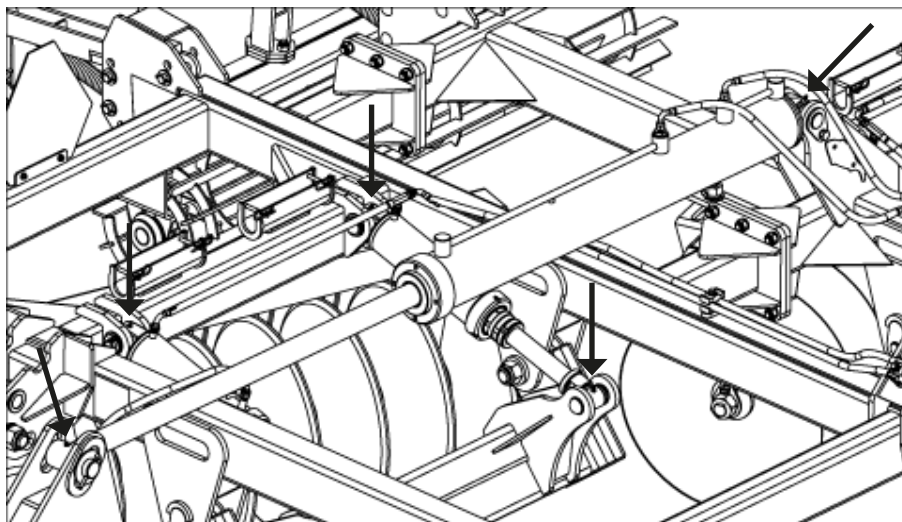


WARNING

When lubricating the MOVERE, do not exceed the amount of new grease. Fill-in a sufficient quantity.

▪ Maintenance

- Lubricate every 24 working hours - Part II



WARNING

When lubricating the MOVERE, do not exceed the amount of new grease. Fill-in a sufficient quantity.

▪ Maintenance

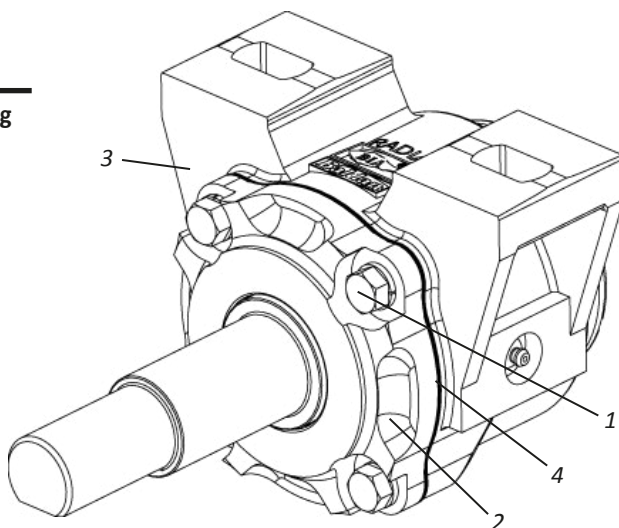
• Adjustments of the rollers bearings

When the bearings of the tillage rollers have clearances, proceed as follows to adjust them:

- 1** - Loosen the screws (1) and remove the cover (2) from the bearing (3).
- 2** - Then, remove one or two gaskets (4) from the cover (2) of the bearing (3). Replace the cover (2) and retighten it.
- 3** - If the gap remains, the cover (2) can be checked to increase the setting, then mount it on the bearing with as many joints as necessary.
- 4** - The bearing must rotate freely, i.e. without clearances.

WARNING

Do not mount the bearing without (5)



• Lubrication of the bearings

Before lubricating the tillage roller bearings, wipe the grease with a clean, lint-free cloth and replace the grease fittings that are damaged.

Lubricate the tillage roller bearings every 12 hours of operation using the amount and grease specified below.

IMPORTANT

Greasing the bearing (3) requires 0.120 kg of grease. Use only the specified grease: EP Grease (Specification DIN51825 KP00K NLGI Consistency 2/3).

NOTE

When lubricating the bearings of the tillage rollers, do not exceed the amount of new grease. Fill-in a sufficient quantity.

▪ Maintenance

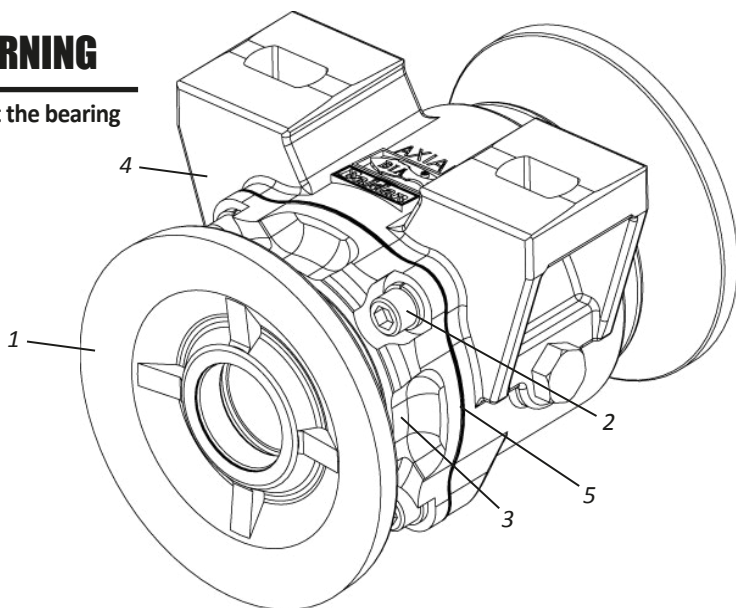
• Adjustments of the disc section bearings

When the bearings of the disc sections have clearances, proceed as follows to adjust them:

- 1 - Remove the washer (1).
- 2 - Then, loosen the screws (2) and remove the cover (3) from the bearing (4).
- 3 - Then, remove one or two gaskets (5) from the cover (3) of the bearing (4). Replace the cover (3) and retighten it.
- 4 - If the gap remains, the cover (3) can be checked to increase the setting, then mount it on the bearing with as many joints as necessary.
- 5 - The bearing must rotate freely, i.e. without clearances.

WARNING

Do not mount the bearing without (5).



• Bearing oil

In the first days of working with **MOVERE**, check the bearing oil level daily, then check every 120 hours of work.

Oil change should be done every 1200 hours of work. Use transmission oil 90 API GL4, MIL-L-2105; SAEJ306, May / 81: SAE 80W, 90 and 140.

WARNING

The ideal oil level is when it reaches the hole in the plug. To check the bearing oil level, look for a flat spot.

■ Maintenance

• Operational Maintenance

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
The tires are damaged.	Work area with stones, stumps or crop remains with stems that cause the tires to be poked.	Eliminate the elements that cause damage to the tires before the period of use of MOVEIRE.
	Tires are not under proper pressure, causing deformation.	Manter a pressão adequada nos pneus.
Strange noise on the wheels.	Loose wheels or wheel hub.	Retighten the wheel nuts and adjust wheel hub bearings.
	Breaking of bearings.	Identify the occurrence and replace the damaged parts.
Quick coupling does not fit.	Couplings of different types.	Exchange it for males and females of the same type.
Leaking hydraulic hoses.	There is no sealing material on the thread.	Use sealing tape and reseal carefully.
	Insufficient tightening.	Retighten carefully.
	Damaged repairs.	Replace terminals.
Leak in quick couplings.	Insufficient tightening.	Retighten carefully without excess.
	Damaged repairs.	Replace repairs.
Quick couplers are not coupling.	Couplers of different brands.	Use quick couplers of the same brand.
	Mixture of needle type couplings with ball type coupling	Always use quick couplers of the same type.
	Pressure on the system.	Relieve the pressure to couple.

▪ Maintenance

• Care

- 1 - Before each job, check the condition of all hoses, pins, screws, bearings, disks, and sections. When necessary, re-tighten them.
- 2 - The speed of movement must be carefully controlled according to the terrain conditions.
- 3 - **MOVERE** is used in many applications, requiring knowledge and attention during its handling.
- 4 - Only local conditions can determine the best working form **MOVERE**.
- 5 - When mounting or removing any part of the **MOVERE**, use appropriate methods and tools.
- 6 - Carefully observe the lubrication intervals at the various lubrication points of **MOVERE**. Observe the lubrication intervals.
- 7 - Always trust the parts to wear out. If replacement is required, always require genuine Baldan parts.
- 8 - Keep your **MOVERE** discs always sharp.



IMPORTANT

Proper and periodic maintenance is necessary to ensure the long life of the **MOVERE**.

▪ Maintenance

• General Cleaning - Part I

- 1 - When storing **MOVERE**, perform a general cleaning and thoroughly wash only with water. Make sure the paint has not worn out, if this has happened, give a general coat, apply the protective oil and fully lubricate the **MOVERE**. Do not use burned oil or other abrasive.
- 2 - Completely lubricate **MOVERE**. Check all moving parts of **MOVERE**, if they present wears or gaps, make the required adjustment or replace the parts, leaving the machine ready for the next work.
- 3 - After all maintenance precautions, store the harrow in a covered and dried location, properly supported.

Avoid: - That the discs come into direct contact with the ground.

- The compression of the springs.
- That the hydraulic hoses be property capped.

▪ **Maintenance**

• **General Cleaning - Part II**

4 - When connecting or disconnecting the hydraulic hoses, do not let the ends touch the ground. Before connecting the hydraulic hoses, wipe the connections with a clean, lint-free cloth. Do not use tow!

5 - Replace all adhesives, especially those about warnings, that are damaged or missing. Make everyone aware of the importance and risks of accidents when instructions are not followed.

6 - After all maintenance precautions, store your **MOVERE** in a plain surface, covered and dried location, away from animals and children.

7 - We recommend to wash the **MOVERE** with water only on the beginning of works.



WARNING

Do not use abrasives or chemical products to wash **MOVERE**, it may damage its painting and adhesives.

• **Harrow conservation - Part I**

To extend the service life and appearance of **MOVERE** longer, follow the instructions below:
Wash and clean all harrow components during and at the end of the work season

1 - To extend the service life and appearance of **MOVERE** longer, follow the instructions below:
Wash and clean all harrow components during and at the end of the work season.

2 - Use neutral products to clean the harrow following the safety and handling guidelines provided by the manufacturer.

3 - Always carry out maintenance during the periods indicated in this manual.

• **Harrow conservation - Part II**

The practices and precautions below if adopted by the owner or operator make the difference for the conservation of **MOVERE**.

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

2 - Use only NEUTRAL detergent and water (pH equal to 7);

3 - Apply the product, following the manufacturer's instructions strictly, on the wet surface and in the correct sequence, respecting the time of application and washing;

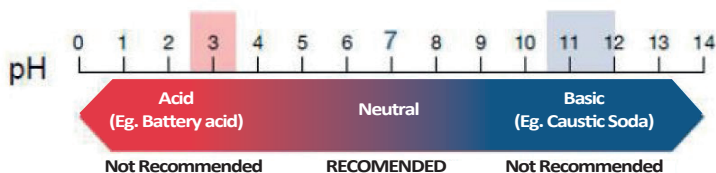
4 - Stains and dirt not removed with the products should be removed with the aid of a sponge.

5 - Rinse the machine with clean water to remove any chemical residues.

▪ Maintenance

6 - Do not use: - Detergents with a basic active ingredient (pH less than 7) can damage/stain the paint on the harrow.

Do not use abrasives or chemical products to wash MOVERE, it may damage its painting and adhesives.



7 - Allow the machine to dry in the shade so that it does not accumulate water in its components. Very fast drying can cause stains on your paint.

8 - After drying, lubricate all chains and greases according to the recommendations in the operator's manual.

9 - Spray all the machine, especially the zinc parts, with protective oil, following the manufacturer's application guidelines. The protective also prevents dirt from adhering to the machine, facilitating subsequent washings.

10 - Observe curing time (absorption) and application intervals as recommended by the manufacturer.

! ATTENTION | Do not use abrasives or chemical products to wash MOVERE, it may damage its painting and adhesives.

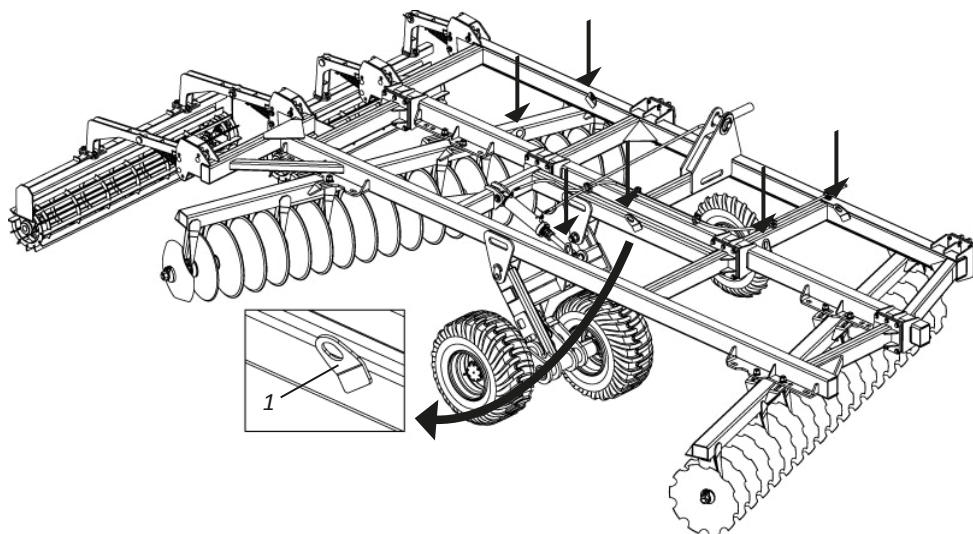
! IMPORTANT | Do not use abrasives or chemical products to wash MOVERE, it may damage its painting and adhesives.

NOTE | We recommend the following protective oils:
 - Bardahl: Agr protective 200 or 300
 - ITWChemical: Z xol DW - Series 4000

▪ **Lifting**

• **Lifting points**

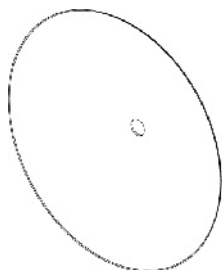
MOVERE has several lifting points located in the uprights. When mounting or servicing **MOVERE**, if you have to carry out the lifting with winch, it is essential to engage the chains at the lifting points.



▪ **Optional**

• **Cutting discs**

MOVERE can optionally be purchased with 22" cutting discs.



FLAT DISC



INDENTED DISC

■ Identification

• Identification plate

In order to consult the parts catalogue or to request technical assistance from Baldan, always indicate the model (01), serial number (02) and date of manufacture (03), which is on the nameplate of your **MOVEIRE**.



WARNING

The drawings contained in this Instruction Manual are illustrative.

CONTACT

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

Phone: 0800-152577

Email: posvenda@baldan.com.br



PUBLICATIONS

CODE: 60550108111 | CPT: MOVEIRE07919A



▪ Identification**• Product identification**

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

Owner: _____

Dealer: _____

Property: _____

City: _____

State: _____

Certificate of Warranty no. : _____

Implement: _____

Serial No.: _____

Purchase Date: _____

Invoice: _____

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

■ Notes

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

BALDAN IMPLEMENTOS AGRÍCOLAS S/A ensures normal operation of the tool to the dealer for a period of six (6) months from the delivery date on the resale invoice to the first end consumer. During this period **BALDAN** undertakes to remedy defects in materials and/or workmanship of their responsibility, and the labour, freight and other expenses of the responsibility of the dealer.

During the warranty period, the order and replacement of any defective parts must be made to the dealer in the region, who will send the defective part for analysis at **BALDAN**. When such a procedure is not possible and exhausted the resolution capacity of the dealer, the dealer will request support from the Technical Assistance of **BALDAN** through the specific form distributed to resellers. After analysing the items replaced by the Technical Assistance of Baldan, and concluded that it is not a warranty issue, so it will be of responsibility of the reseller any costs related to replacement; as well as the cost of materials, travel including accommodation and meals, accessories, lubricant and other expenses resulting from the call to the service, with the Baldan company authorised to make its billing on behalf of the reseller. Any repairs made to the product that is within the warranty period of the dealer will only be authorised by **BALDAN** with prior presentation of the budget describing the work of parts and labour to be performed.

It is excluded from this term the product that is repaired or modified in shops that do not belong to the dealer network of **BALDAN**, as well as the use of non-genuine parts or components in the product of the customer. This guarantee will be void when it is determined that the defect or damage is the result of improper product use, failure to follow instructions or the inexperience of the operator.

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

BALDAN the right to modify and or improve the technical characteristics of its products without notice and without obligation so to proceed with the products previously manufactured.

▪ Inspection and delivery certificate

SERVICE BEFORE DELIVERY: This implement was carefully prepared by the sales organisation, checked in all its parts according to the manufacturer's instructions.

DELIVERY SERVICE: The user is informed about the terms of existing warranty and instructed on the use and maintenance care.

I confirm that I was informed about the current guarantee terms and instructed about the use and proper maintenance of the implement

Tool: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer _____

Phone: _____ CEP: _____

City: _____ State _____

Owner: _____

Phone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Sale Date: _____

Signature/Reseller Stamp _____

1st copy - Owner

▪ Inspection and delivery certificate

SERVICE BEFORE DELIVERY: This implement was carefully prepared by the sales organisation, checked in all its parts according to the manufacturer's instructions.

DELIVERY SERVICE: The user is informed about the terms of existing warranty and instructed on the use and maintenance care.

I confirm that I was informed about the current guarantee terms and instructed about the use and proper maintenance of the implement

Tool: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer _____

Phone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Phone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Sale Date: _____

Signature/Reseller Stamp _____

2nd copy - Reseller

▪ Inspection and delivery certificate

SERVICE BEFORE DELIVERY: This implement was carefully prepared by the sales organisation, checked in all its parts according to the manufacturer's instructions.

DELIVERY SERVICE: The user is informed about the terms of existing warranty and instructed on the use and maintenance care.

I confirm that I was informed about the current guarantee terms and instructed about the use and proper maintenance of the implement

Tool: _____ Serial Number: _____

Date: _____ Tax Number: _____

Dealer _____

Phone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Phone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Sale Date: _____

Signature/Reseller Stamp _____

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

1.74.05.0059-5

AC MATÃO
ECT/DR/SP

ANSWER-CARD

STAMP NOT REQUIRED

POSTAGE WILL BE PAID BY:



BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

Av. Baldan, 1500 | Nova Matão | CEP: 15993-000 | Matão-SP. | Brasil

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

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

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

email: export@baldan.com.br



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

+55 16 3221 6500
baldan.com.br