

Instruction Manual



PLB DIRECTA

Precision Row Seed Drill Baldan



IDENTIFICATION

We appreciate your purchase and congratulate you for the excellent choice you just made because you have purchased a product manufactured with technology from **BALDAN IMPLEMENTOS AGRÍCOLAS S/A**.

This instruction manual will guide you through the procedures that are necessary since its acquisition up to the operating procedures of use, security and maintenance.

BALDAN ensures that has delivered this farming implement to the dealer in perfect conditions.

The dealer is responsible for the custody and maintenance of this farming implement and also for the assemblage, retightening, lubrication and overhaul.

In the technical delivery, the dealer must advise the user on its maintenance, security, its obligations under any technical assistance, the strict observance of the guarantee and reading of the instruction manual.

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

We reiterate the need for careful reading of the **Warranty Certificate** and observance of all items in this instruction manual, as doing so, the useful life of your farming implement will increase.



Instruction Manual



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PRODUCT WARRANTY

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

During this period **BALDAN** undertakes to fix any defects in materials or workmanship of its responsibility, the labor, the freight and other expenses being of the dealer's liability.

During the warranty period, the request and the replacement of any defective parts must be made to the dealer of the region, which will send the defective part for analysis by **BALDAN**.

When such a procedure is not possible and the capacity of resolution by the dealer is exhausted, this one will request the **BALDAN** Technical Assistance support through a specific form distributed to the dealers.

After analyzing the items replaced by the **BALDAN** Technical Assistance, and if the conclusion is that it is not a case of warranty, then the costs related to the replacement will be supported by the dealer; as well as the material costs, travel including stays and meals, accessories, lubricant used and other expenses deriving from the request to the Technical Assistance, in this case, **BALDAN** is authorized to make the billing on behalf of the dealer's name.

Any repair done by the dealer on the product within the warranty period, will only be authorized by **BALDAN** upon prior presentation of the budget describing the parts and the works to be performed.

Is excluded from this warranty the product that is repaired or modified in workshops that do not belong to the **BALDAN** dealers network, as well as the application of non-genuine parts or components on the user product.

This warranty will become void if it is determined that the defect or damage is the result of misuse 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 warranted by their manufacturers.

Defects in workmanship and or material, object of this warranty shall not be, under any circumstances, grounds for the termination of the contract of sale, or for compensation of any nature.

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

GENERAL INFORMATION

OWNER

BALDAN IMPLEMENTOS AGRÍCOLAS S/A, will not be responsible for any damage caused by an accident due to the use, transport or improper or incorrect storage of your implement, whether in case of negligence and/or inexperience of any person.

Only persons who have the full knowledge of the tractor and the implement must perform their transportation and operation.

BALDAN will not be responsible for any damage caused due to unpredictable situations or beyond the normal use of the implement.

The mishandling of this equipment can result in serious or fatal accidents. Before switching on the equipment, carefully read the instructions of this manual. Make sure that the person responsible for the operation is instructed on the proper and safe handling of the equipment. Also make sure that the operator has read and understood the product instructions manual.

01- NR-31 - SAFETY AND HEALTH AT WORK IN AGRICULTURE, LIVESTOCK, FORESTRY, FOREST EXPLOITATION AND AQUACULTURE.



02- This Regulatory Norm aims to establish the principles to be observed in the organization and the work environment, in a way consistent with the planning and development of the agriculture, livestock, forestry, forest exploitation and aquaculture activities regarding the safety and health and the working environment.

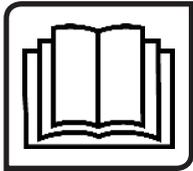
**IF YOU ARE THE OWNER OR THE OPERATOR OF THE EQUIPMENT.
Read and carefully follow the NR-31 provisions.**

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



THIS SYMBOL INDICATES AN IMPORTANT SAFETY WARNING. WHENEVER YOU FIND IT IN THIS MANUAL CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF PERSONAL INJURIES.

ATTENTION



- Read the instruction manual carefully, so you can learn the recommended safety practices.

ATTENTION



- Only begin operating the tractor when are properly accommodated and with the seat belt fastened.

ATTENTION



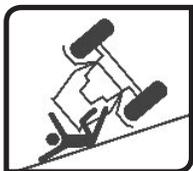
- Do not operate the tractor if the front is light. With a tendency to rise, add weights on the front of the tractor or front wheels.

ATTENTION



- Before performing any maintenance on your equipment, make sure it is turned off. Avoid getting hit.

ATTENTION



- There are risks of serious injury by tumbling when working on slopes.
- Do not use excessive speed.

ATTENTION



- Keep yourself away from the active elements of the machine (discs), they are sharp and can cause accidents.
- When carrying any service on discs, use safety gloves on hands.

ATTENTION



- Avoid accidents caused by intermittent action of rows mark
- Make sure if has anybody closer to the row mark.

ATTENTION



- Do not operate the planter if the transmission lids are not fixed. The lids must be taken out only when change is a need.
- Do not make any adjustments when the machine is in movement.

SAFETY RULES

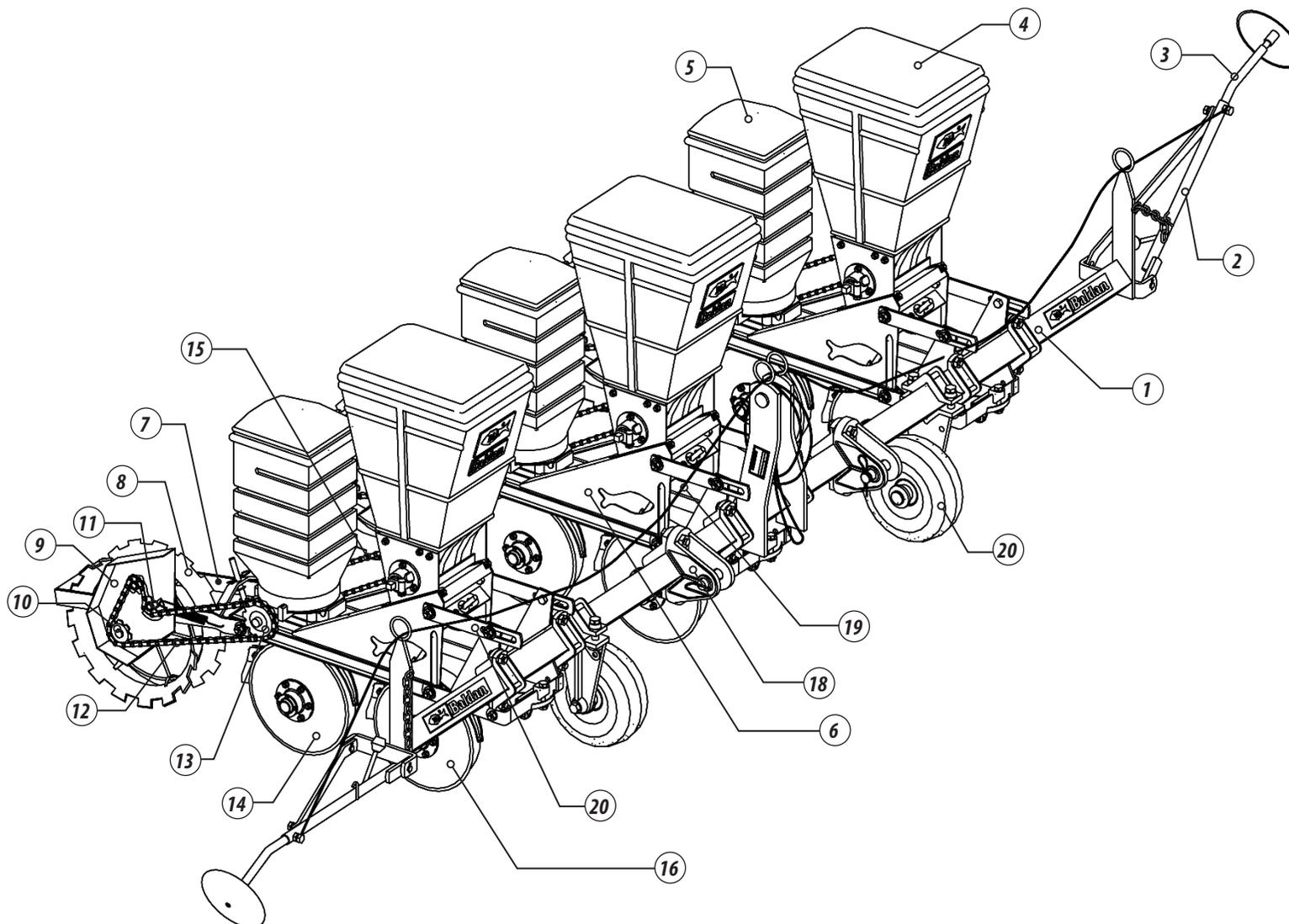
- 01-When operate with the implement, do not allow people to stay close or above the implement. (The platforms are used to supply the stores and not to transport people).
- 02-During assembly or disassembly the discs section use protection gloves.
- 03-Do not use much large clothes because they can fasten the implement.
- 04-Plutting in action the tractor, be correctly placed at the operator seat and aware about the correct and safety handling both tractor and implement. Place always the gear-shift cranc at the neutral position, turn off the gear of the power command and place the hydraulic commands at the neutral position.
- 05-Do not turn on the tractor in a closed place. without appropriate ventilation because the gas is bad for health.
- 06-While maneuver the tractor to clamp the implement be sure if there is space enough and nobody is too close, maneuver always in slow gear and be ready to brake in case of emergency.
- 07-Do not make adjust the implement working.
- 08-Working in inclined soil try to keep the necessary stability. In case of instability reduce the acceleration, turn the wheels to the inclined side of the soil and never lift the implement.
- 09-Conduct the tractor always in safety speeds, specially working in irregular or inclined soil, keep the tractor always geared.
- 10-In case of conducting the tractor on road, keep the brake pedal connected.
- 11-Do not work with the front of the tractor light. If there is trend to lift up add more weight in front and of the tractor at the front wheels.
- 12-To leave the tractor, place the gearshift at the neutral position and apply the park brake. Do never let clamped implements to hitched the tractor with the hydraulic system at the lifted position.

*If case of doubt, ask the After-sales.
Phone: 08000-152577 / E-mail: posvenda@baldan.com.br*

MOUNTED ROW CROP PLANTER - PLB DIRECTA

Figure 1

- 1- Tool Bar
- 2- Row marker support
- 3- Row marker disc
- 4- Fertilizer hopper
- 5- Seed hopper
- 6- Row unit
- 7- Wheel support
- 8- Transmission/compactation wheel
- 9- Chain cover
- 10- Motor sprocket
- 11- Chain Stretcher
- 12- Transmission chain
- 13- Moved sprocket (seed)
- 14- Seed double discs
- 15- Transmission chain (Fertilizer)
- 16- Fertilizer double discs
- 17- Oscillating system support
- 18- Tool bar hitch
- 19- Row marker cable
- 20- Complete stabilizer wheel



COMPONENTS

TECHNICAL SPECIFICATIONS

Table 1

| Model | No. of rows | Toolbar width (mm) | Useful width (mm) | Total width (mm) | Minimum row spacing (mm) | Working depth (mm) | Approximate weight (Kg) | Seed hooper capacity (L) | Fertilizer hooper capacity (L) | Tractor power (Hp) |
|-------|-------------|--------------------|-------------------|------------------|--------------------------|--------------------|-------------------------|--------------------------|--------------------------------|--------------------|
| PLB | 2 | 1800 | 1400 | 2300 | 420 | 0 - 120 | 449 | 45 | 60 | 40 - 50 |
| PLB | 2 | 2800 | 2400 | 3300 | 420 | 0 - 120 | 471 | 45 | 60 | 40 - 50 |
| PLB | 2 | 3800 | 3400 | 4300 | 420 | 0 - 120 | 492 | 45 | 60 | 40 - 50 |
| PLB | 3 | 1800 | 1400 | 2300 | 420 | 0 - 120 | 597 | 45 | 60 | 50 - 66 |
| PLB | 3 | 2300 | 1900 | 2800 | 420 | 0 - 120 | 608 | 45 | 60 | 50 - 66 |
| PLB | 3 | 2800 | 2400 | 3300 | 420 | 0 - 120 | 618 | 45 | 60 | 50 - 66 |
| PLB | 3 | 3800 | 3400 | 4300 | 420 | 0 - 120 | 640 | 45 | 60 | 50 - 66 |
| PLB | 4 | 2800 | 2400 | 3300 | 420 | 0 - 120 | 766 | 45 | 60 | 60 - 75 |
| PLB | 4 | 3300 | 2900 | 3800 | 420 | 0 - 120 | 777 | 45 | 60 | 60 - 75 |
| PLB | 4 | 3800 | 3400 | 4300 | 420 | 0 - 120 | 787 | 45 | 60 | 60 - 75 |
| PLB | 4 | 4400 | 4000 | 4900 | 420 | 0 - 120 | 841 | 45 | 60 | 60 - 75 |
| PLB | 5 | 2800 | 2400 | 3300 | 420 | 0 - 120 | 913 | 45 | 60 | 75 - 90 |
| PLB | 5 | 3800 | 3400 | 4300 | 420 | 0 - 120 | 935 | 45 | 60 | 75 - 90 |
| PLB | 5 | 4400 | 4000 | 4900 | 420 | 0 - 120 | 989 | 45 | 60 | 75 - 90 |
| PLB | 6 | 2800 | 2400 | 3300 | 420 | 0 - 120 | 1014 | 45 | 60 | 85 - 95 |
| PLB | 6 | 3800 | 3400 | 4300 | 420 | 0 - 120 | 1082 | 45 | 60 | 85 - 95 |
| PLB | 6 | 4400 | 4000 | 4900 | 420 | 0 - 120 | 1136 | 45 | 60 | 85 - 95 |



IMPORTANT

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

- The planter is shipped with the unit rows assembled, ready to be attached to the tool bar.
- Use supports to maintain the tool bar in a easy position to fix the row units.

ASSEMBLING THE TOOL BAR HITCH

- 01 - fix hitch (1), on tool bar(2), using clamp (3), bolts (4), washers and nuts (5).
- 02 - Adjust the hitch according to the category of the tractor that will work with the unit.

- 03 - Cat. I = 685 mm;
- 04 - Cat. II = 826 mm.

Important : The minimum spacing between rows is 420 mm.

- 05 - Fix the complete wheel (6) on tool bar (2), using support (7), bolt (8), washers and nuts (9).

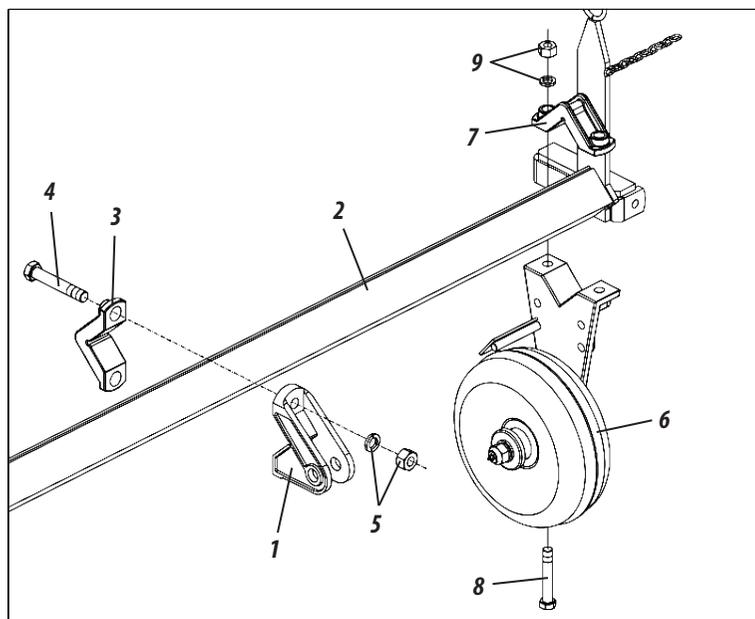


Figure 2

ASSEMBLY

ASSEMBLING THE SEED DOUBLE DISC

- 01 - Insert the seed double disc unit (1) between frame (2) and fix with bolts (3), washers and nuts (4).

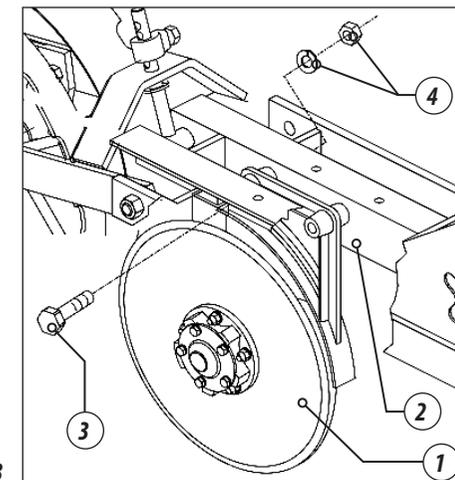


Figure 3

ASSEMBLING THE FERTILIZER DOUBLE DISC

- 01 - Attach the fertilizer double disc unit (1) to support (2) fixing with lock (3), bolt (4), washer and nut (6).
- 02 - Place the spring rod (7) on the support and lock with pin (8).
- 03 - Attach hose (9) to the entry tube of the double discs unit and lock with clamp (10).

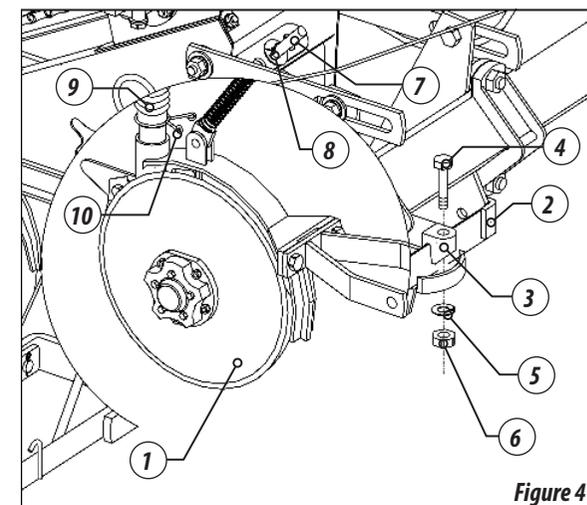


Figure 4

ASSEMBLY

ASSEMBLING THE FERTILIZER FURROWER FOR MAIZE - (OPTIONAL)

- 01 - Attach the furrower unit (1) to support (2) fixing with lock (3), bolt (4), washer (5) and nut (6).
- 02 - Place spring rod (7) on the support and lock with pin (8).
- 03 - Attach hose (9), to the entry tube of the furrower unit fixing with clamp (10).

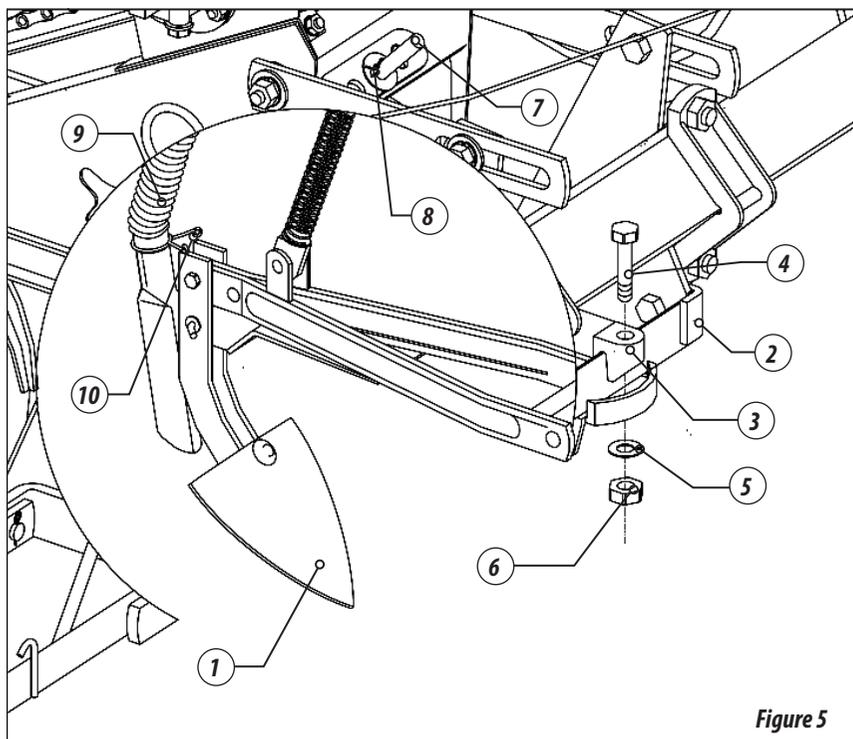


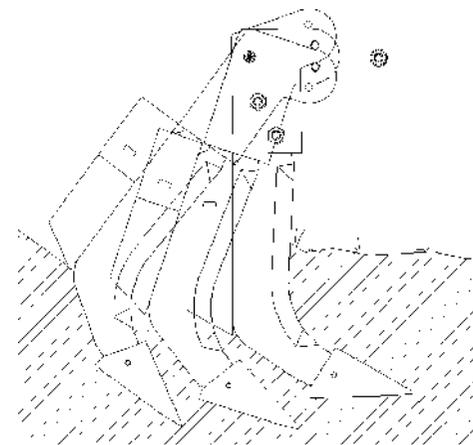
Figure 5

POSITION OF THE FURROWER FOR DEEP FERTILIZING - OPTIONAL

- 01 - The furrower can work in two positions. To adjust, remove pin (1) and move furrower (2) until you find the desired position. Replace pin (1).



Figures 6



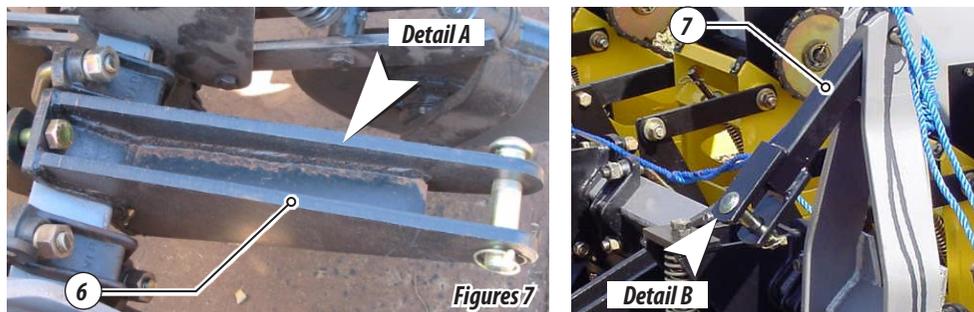
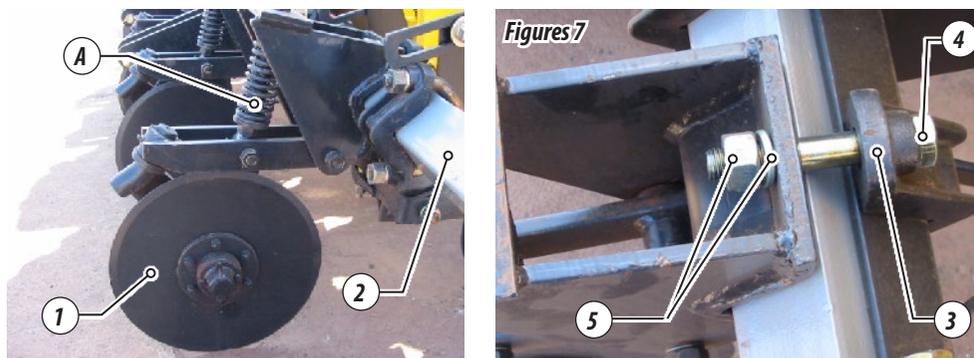
NOTE | Pin (1) also works as safety device. (hardness controled steel)

ASSEMBLING THE CUTTING COULTER - (OPTIONAL)

The PLB Directa was initially developed to work in conventional conditions. Now you can also work with this planter in No-Till conditions by attaching the No-Till kit (cutting coulters). Please proceed as follows:

01 - Attach the cutting coulters (1) to the tool bar (2) fixing with bracket (3), bolt (4), washers and nut (5).

NOTE Spring "A" is preset by the factory. Do not increase the pressure, otherwise you will lose articulation on the coulters.



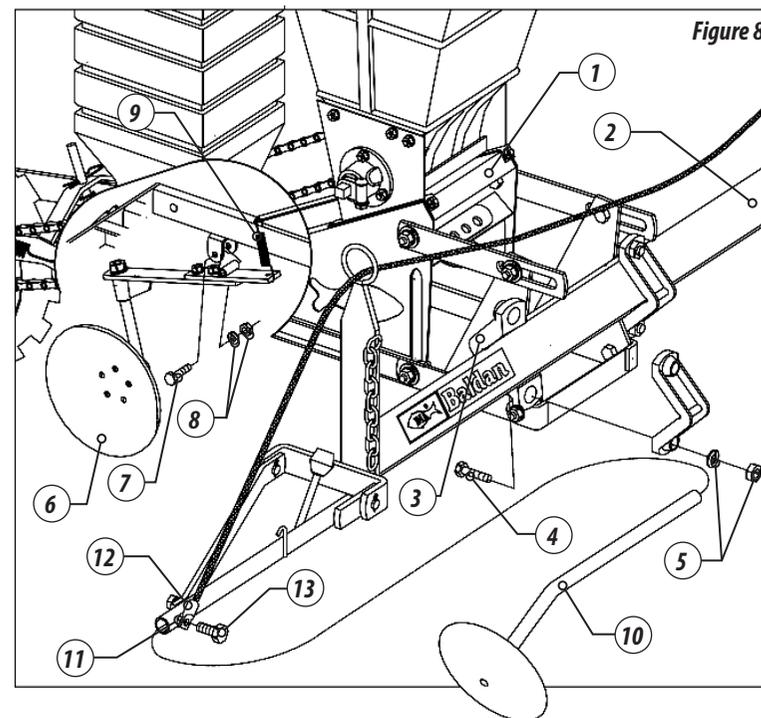
NOTE In order to fit the cutting coulters to the tool bar, you first have to change the lower hitch (6) and add the extension bar (7) as shown on details "A" and "B".

ASSEMBLING THE PLANTING ROW UNIT

01 - Fix the row unit (1) on tool bar (2) by using bracket (3), bolts (4), washers and nuts (5).
 02 - Insert cover disc (6) between the frame, fixing with bolt (7), washer and nut (8), place spring (9) between disc support and row unit hitch.

ASSEMBLING THE ROWS MARKERS

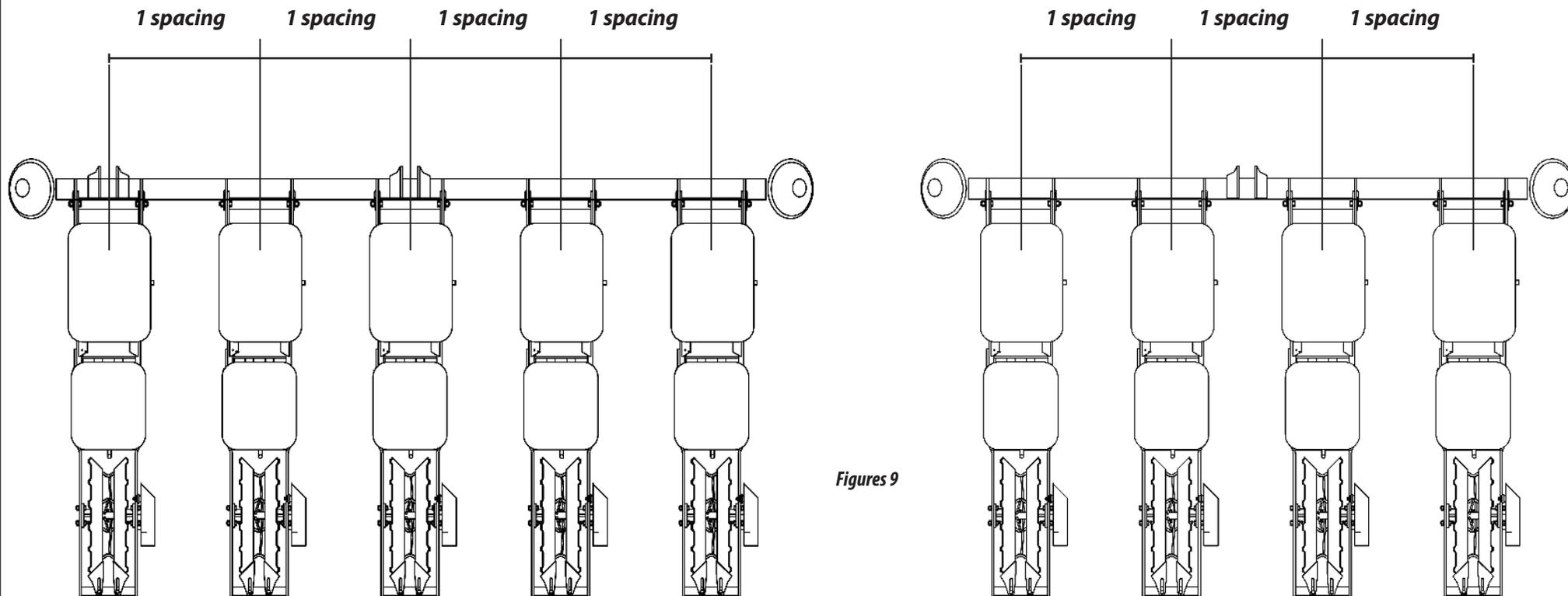
01 - Insert row marker (10) to base (11). Fix cable terminal (12) and fix with bolt (13), passing through rings located on the tool bar. Fix the other end on the opposite side.



ASSEMBLY

SETTING THE CORRECT SPACINGS ACCORDING TO THE NUMBER OF ROWS

- 01 - First find and mark the exact middle of the tool bar. For odd number of rows, mark half spacing to each side, starting from the middle. After fixing the first two rows you can then consider the complete desired spacings (right side figure).
- 02 - For even number of rows, start from the middle and mark the complete spacing to each side of the bar (left side figure).
- 03 - After finishing to set and tighten all row units, check if all tools are put away and there are no parts (nuts, bolts, washers) inside the hoppers.
- 04 - Also check that all pins and lock pins are placed correctly.



Figures 9

HITCHING TO THE TRACTOR

- 01 - Hitch the left inferior arm of the tractor with the hitch pin (1) to the support "A" of the seed machine.
- 02 - Hitch the 3rd point arm to the "B" support of the machine.
- 03 - Finally with the height regulating lever "D" hitch the right inferior arm of the tractor to the support "C" of the planter.

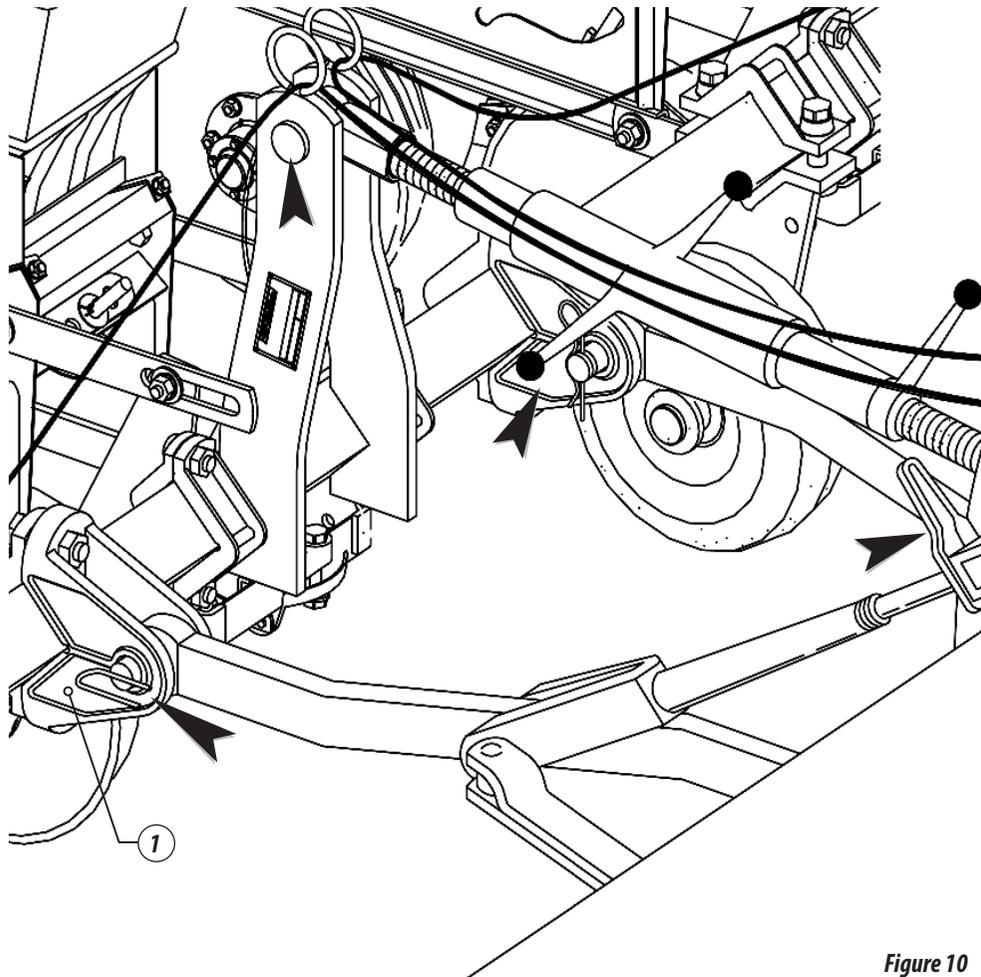


Figure 10

CENTRALIZATION

- 01 - To centralize the planter in relation to the tractor's longitudinal axle, proceed as follows:
- 02 - Line the superior hitch arm of the machine with the 3rd point of the tractor, checking if all the distances "D" of the inferior arms of the hydraulic are the same in relation to the tractor tyres, according to figures 10 and 11. To line up use the stabilizers. The inferior arms must be leveled.

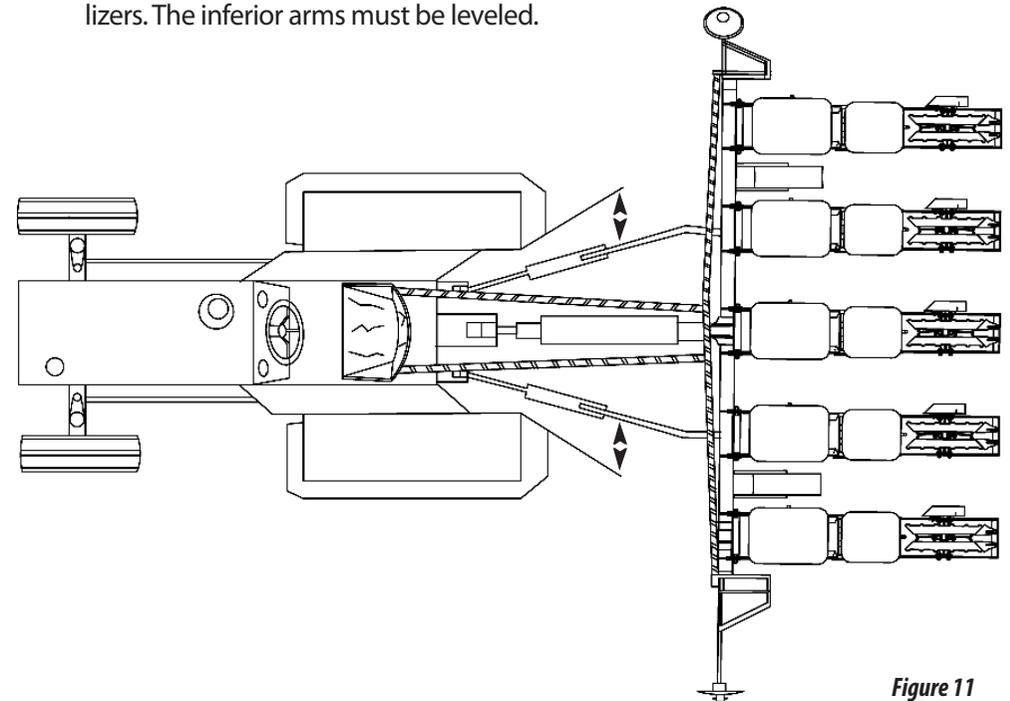


Figure 11

HITCHING

LEVELING THE PLANTER

- In order to level the planter, proceed as follows:
 - 01 - The tractor has to be parked on a plain surface; level the planter on both longitudinal and transversal positions. Notice that distance "h" has to be the same for both sides.
 - 02 - The longitudinal leveling is done using the top link. Notice that the rows have to be leveled on the ground. (parallel)

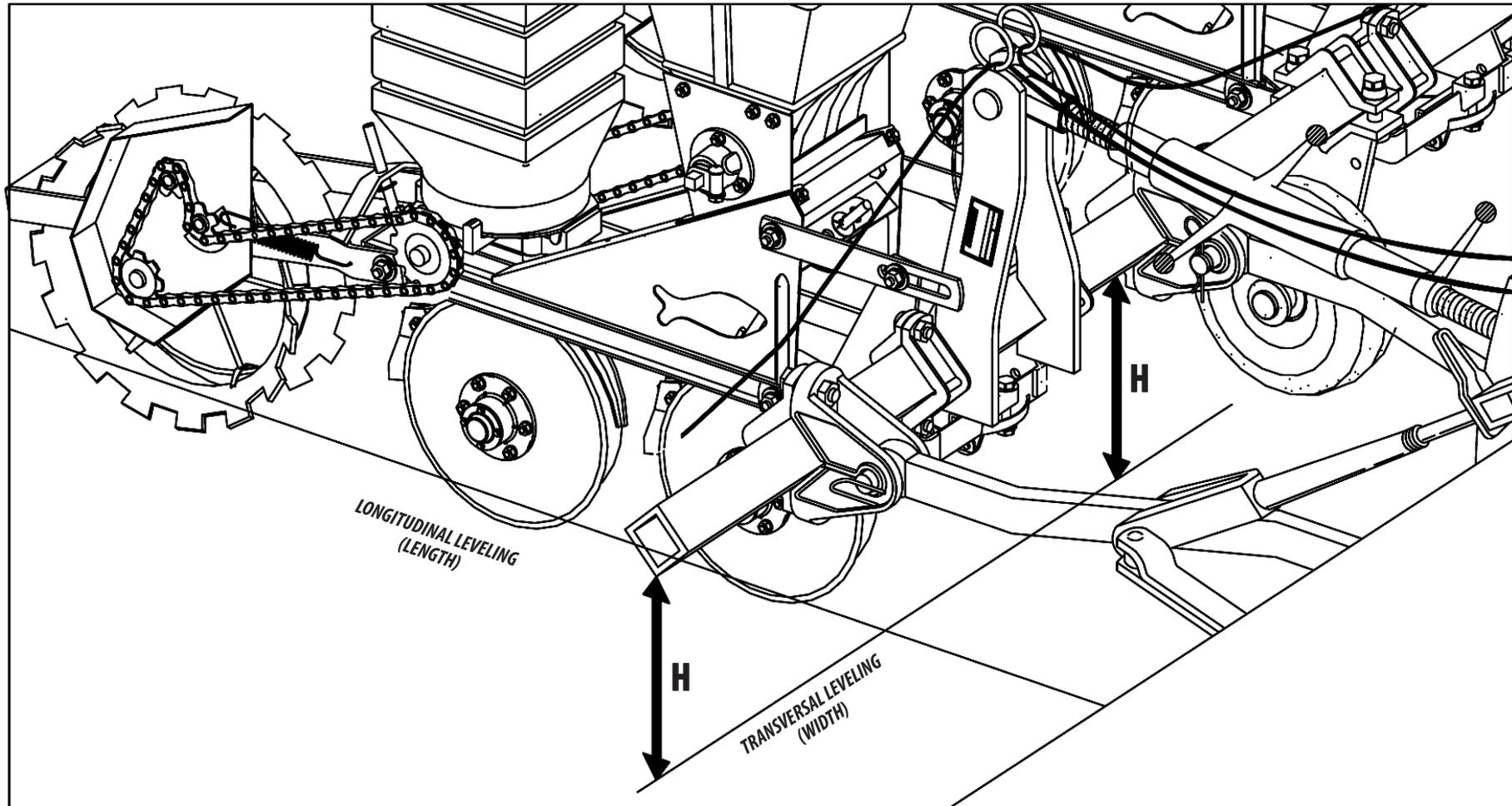
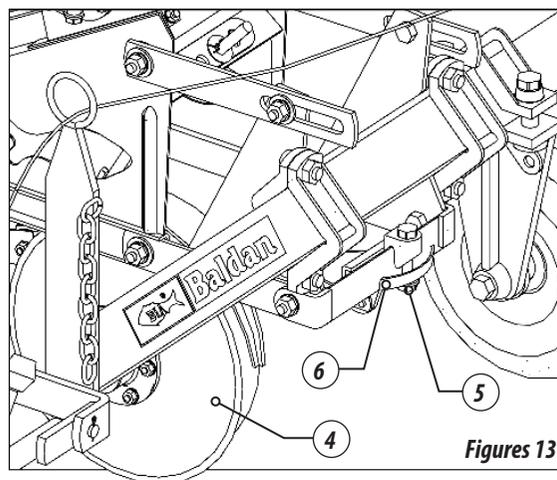
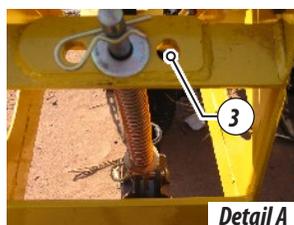
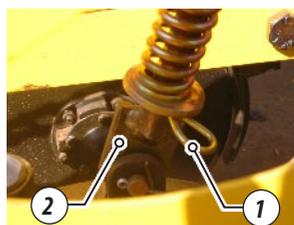


Figure 12

FERTILIZER DEPTH CONTROL

- The depth of the fertilizer can be adjusted by changing the spring pressure. To calibrate, proceed as follows:
 - The spring rod is supplied with several holes for pressure adjustment.
 - To reduce the pressure, place lock pin (1) in the lower hole of spring rod (2).
 - To increase the pressure, place lock pin (1) in a higher hole of spring rod (2).



ADJUST SEED / FERTILIZER DISTANCE IN THE FURROW

- The furrow opening is done by double discs (4). In order to adjust the distance between the fertilizer and seed furrow, proceed as follows:
 - Loosen nut (5);
 - Insert spring rod (2) into support hole (3); detail "A".
 - Move the complete double disc unit (6) until you achieve the correct position.
 - Retighten nut (5).

SEED DEPTH ADJUSTMENT

- The seed depth adjustment is done by changing the pressure of the spring upon the double disc unit. To adjust the pressure, proceed as follows:
 - To reduce the depth, loosen bolt (1) and fix lock bushing (2) on the lower mark "A" of rod (3);
 - To increase the depth, fix lock bushing (2) on a higher mark "B" of rod (3).

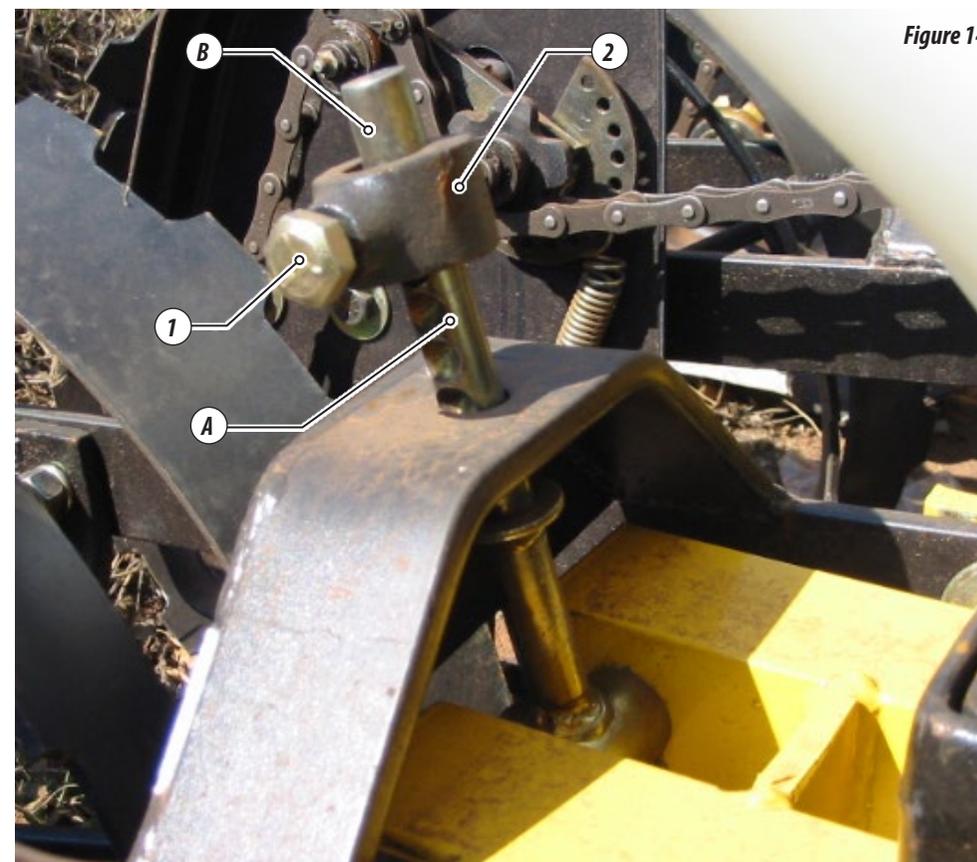


Figure 14

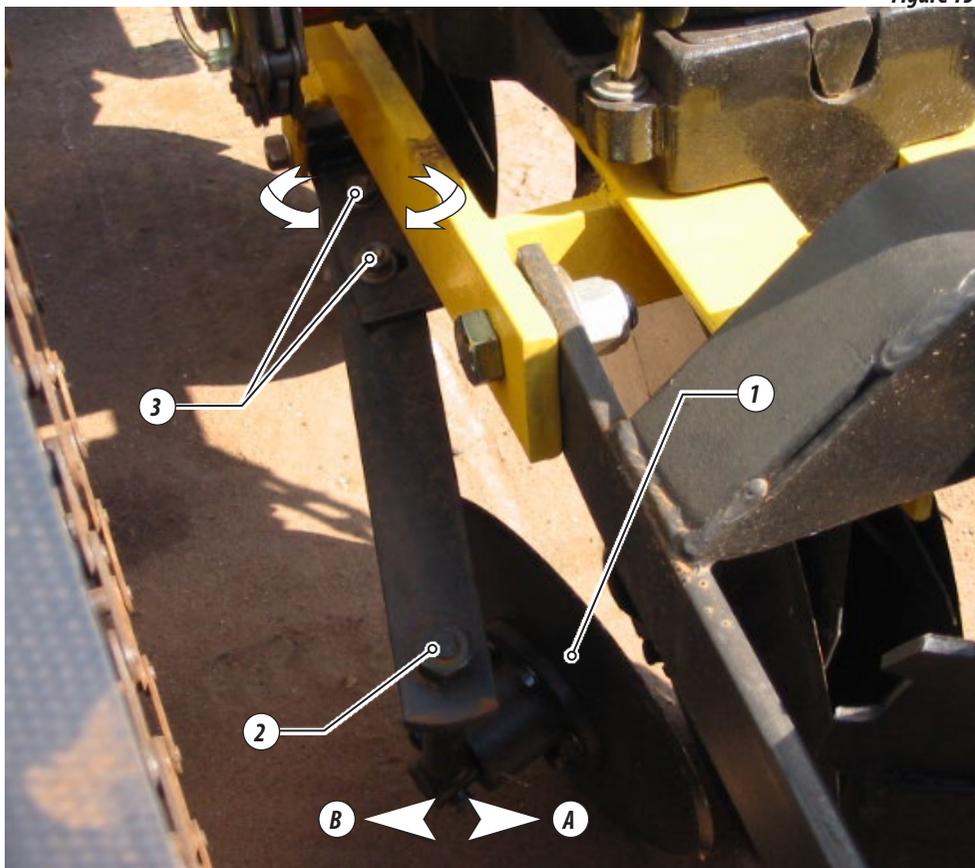
ADJUSTMENTS

ADJUSTMENTS

ADJUSTING THE COVERING DISC

- 01 - The covering of the seeds is done by disc (1). This disc should be adjusted (angle) according to the type of the soil.
- 02 - To adjust the disc, loosen nut (2) and turn disc (1) to direction "A" to more soil coverage over the seed. For less soil coverage, turn to direction "B".
- 03 - If you need to place the disc closer to the furrow, loosen bolt (3) and find the desired position.

Figure 15



STEEL COMPACTATION WHEEL

- 01 - The steel compactation wheel (1) is supplied in order to side press the soil upon the seed, improving its germination level.
- 02 - Cleaners (2) should be adjusted by bolts (3). The function is to keep the wheel always clean. This will also guarantee a constant and uniform depth control.

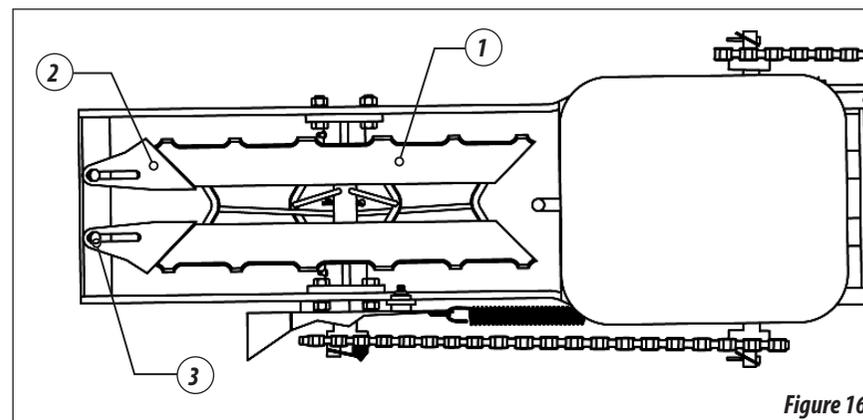


Figure 16

RUBBER COMPACTATION WHEEL

- 01 - The rubber compactation wheel (1) is normally used with seeds that do not need that much of side pressure.

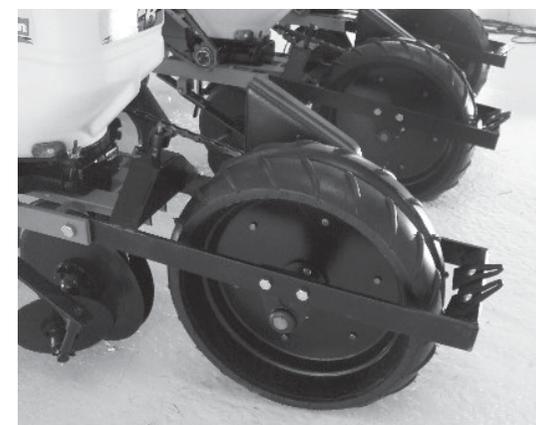


Figure 17

SEED ADJUSTMENTS

SEED DISTRIBUTION DISCS

01 - To make the exchange or replacement of distribution discs, open the seed box and remove the screw (1), the top bracket with baffle (2) and the distribution disc (3) to be replaced.

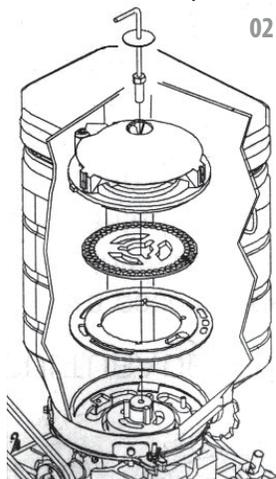


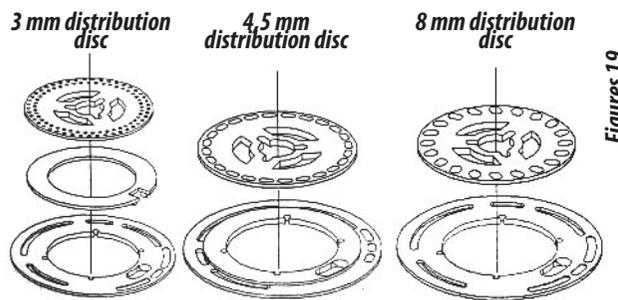
Figure 18

02 - Select the desired distribution disc and assemble it in the seed box. Check the placement of rings according to the distribution disc as follows:

- For 3 mm distribution disc use a plastic ring of 5 mm and a metal ring of 3.5 mm.
- For 4.5 mm distribution disc use two metal rings of 3.5 mm.
- For 5.5 mm distribution disc use a plastic ring of 2.5 mm and a metal ring of 3.5 mm.
- For 8 mm distributor disc use a metal ring of 3.5 mm.

ASSEMBLING THE DISTRIBUTION DISC

- For 4.5 mm disc, assemble the bifacial plateau with recessed face up as item 1, figure 19.
- For 8 mm disc, assemble the bifacial plateau with smooth face up as item 2, figure 19.

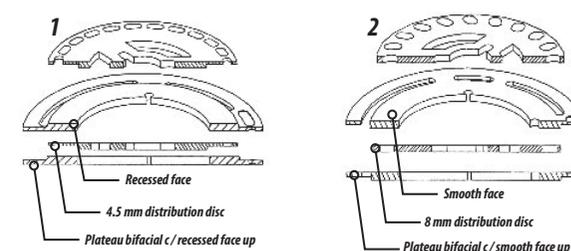


Figures 19



The incorrect assemblage of distribution discs and bifacial plateau may damage the machine and planting, as shown in Figures 19.

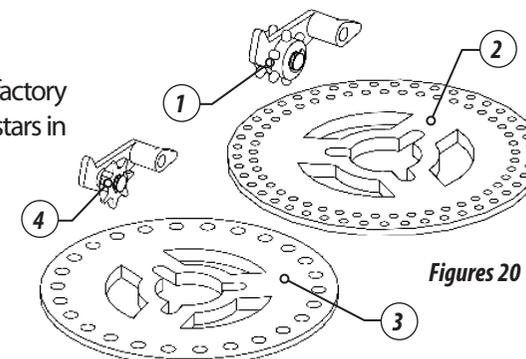
- Before filling the box with seeds, it is important to check the whole distribution system, mainly the operation of triggers of the metering seed box.



Figures 19

SEED METERING STAR

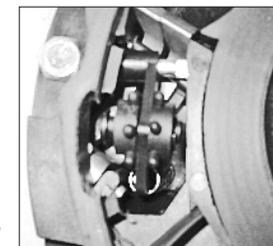
- 03 - The seed distributor leaves the factory with trigger of two seed metering stars in discs of double row (2).
- 04 - Single row discs (3) use one metering trigger star (4). To replace the triggers, refer to FIGURES 21.



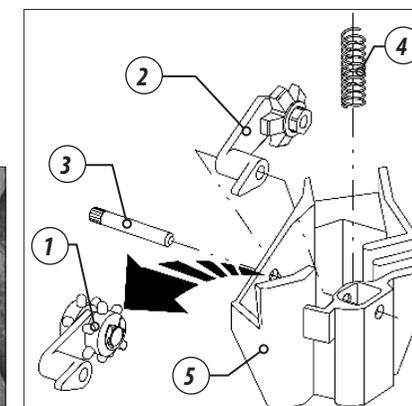
Figures 20

REPLACEMENT OF DOUBLE TRIGGER BY SINGLE TRIGGER

- The seed distributor leaves the factory with trigger of two metering stars (1) for discs of double row of holes. To replace it by the single trigger star (2), remove the pin (3), the trigger (1), place the spring (4) in the socket, insert the trigger (2) in the box (5) and lock with the pin (3).



Figures 21



SEED ADJUSTMENTS

SEED ADJUSTMENTS

SEED DISTRIBUTION PLATES

01 - The planter is supplied with 7 sets of plates (standard). Optional plates can be ordered according to the different seed types, shapes and sizes.

| Seeds | Standard plates | |
|---------------|--------------------------|----------|
| Soya | 90 holes (8,5 x 9,0 mm) | x 4,5 mm |
| | 40 holes (8,0 x 15,0 mm) | x 8,0 mm |
| | 40 holes (7,5 x 15,0 mm) | x 8,0 mm |
| Maize* / Rice | 26 holes (13,5 mm) | x 4,5 mm |
| | 26 holes (13,0 mm) | x 4,5 mm |
| | 26 holes (11,0 mm) | x 4,5 mm |
| Bean | 72 holes (7,0 x 12,0 mm) | x 5,5 mm |

Table 2

*MAIZE

01 - In order to choose the correct distribution plate, we recommend you have in hands the seed sample that will be used. That way you can place the seeds into the plate holes and identify the best plate for that specific seed. Always consider one seed per hole. Notice that the seeds should fit the holes falling by gravity. The seeds should not stick in the holes. If this happens, it will damage the seed and compromise the germination. Double seeds are not recommended. If it happens, you should choose another plate.

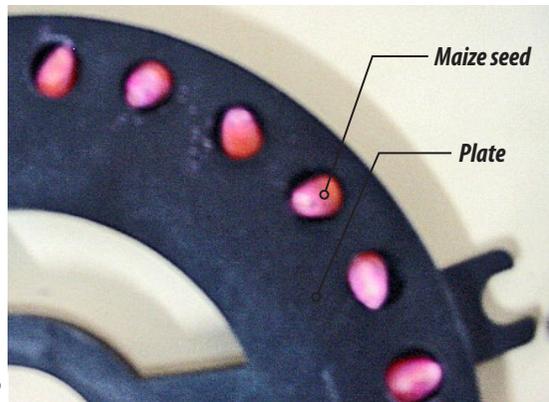


Figure 22

| Seeds | Optional plates | |
|-----------------------|---------------------------|----------------------|
| Soya | 38 holes (7,5 x 18,0 mm) | x 4,5 mm |
| | 38 holes (8,0 x 18,0 mm) | x 4,5 mm |
| | 62 holes (8,5 x 9,0 mm) | x 4,5 mm |
| Maize* | 24 holes (9,0 x 14,0 mm) | x 4,5 mm |
| | 24 holes (10,0 x 15,0 mm) | x 4,5 mm |
| | 24 holes (11,0 x 15,0 mm) | x 4,5 mm |
| | 42 holes (9/32") | x 4,5 mm |
| Sorghum | 50 holes (4,8 mm) | x 3,0 mm |
| | 90 holes (5 x 5,5 mm) | x 3,0 mm |
| Bean | 64 holes (8,0 x 12,0 mm) | x 5,5 mm |
| Peanuts** | 19 holes (19,0 mm) | x 6,0 mm |
| Sunflower | 20 holes (7,0 x 16,0 mm) | x 4,5 mm |
| Cotton without linter | 30 holes (5,5 x 11,0 mm) | x 4,5 mm |
| | 40 holes (7,5 x 12,5 mm) | x 4,5 mm |
| Others | 17 holes (9/32") | x 3,0 mm |
| | 18 holes (9/32") | x 3,0 mm |
| | 30 holes (8,5 x 12,0 mm) | x 4,5 mm |
| | 30 holes (9,0 x 13,5 mm) | x 4,5 mm |
| | 30 holes (10,0 x 14,5 mm) | x 4,5 mm |
| | 30 holes (11,0 x 15,5 mm) | x 4,5 mm |
| | 40 holes (8,0 x 13,5 mm) | x 4,5 mm |
| | 90 holes (5,0 x 5,5 mm) | x 3,0 mm |
| | 90 holes (7,0 x 7,5 mm) | x 4,5 mm |
| | | Plates without holes |

! ATTENTION

The total width of the distribution plate + rings should be 11,5 mm. Whenever you work with a distribution plate with 8 mm or 4,5 mm, use the rings according to page 18.

The standard rings have 3,5 mm of thickness.

Table 3

** PEANUTS

01 - For Peanut seeds, use the special kit composed by a distribution plate with 19 holes 3/4" x 6 mm (1), internal flow limiter (2), seed scrapers (3), support (4), Bolt, washer and nut (5), Bolt and washer (6) and plate dual side ring (7). On the next pages we will show the seed distribution tables for several crops. The values indicated on the tables are only for your reference.

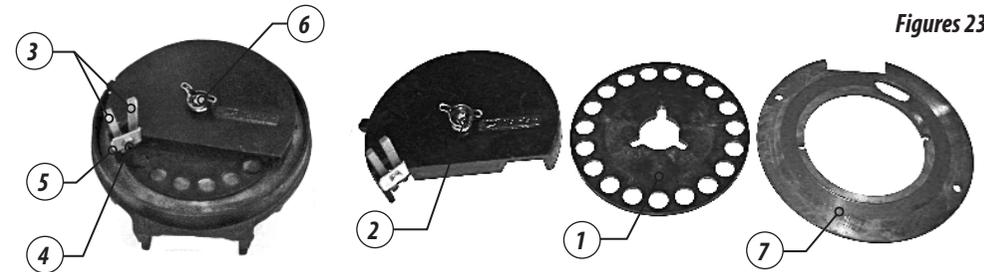
02 - They and change according to:

03 - Soil conditions

05 - Type and quality of seeds

04 - Working speed

06 - Others



Figures 23

SOYA

01 - Seed distribution table for large size soya seeds:

| Seed Plate | Sprocket size | | Qty of seed per linear meter |
|------------------------------|---------------|-----------|------------------------------|
| | Motor "A" | Moved "B" | |
| 38 holes Thickness 4,5 mm | 8 | 15 | 11,0 |
| | 8 | 13 | 12,0 |
| | 8 | 12 | 13,0 |
| | 8 | 11 | 14,5 |
| | 8 | 10 | 16,0 |
| | 8 | 9 | 18,0 |
| | 8 | 8 | 20,0 |
| | 9 | 8 | 22,0 |
| | 10 | 8 | 25,0 |
| | 11 | 8 | 27,0 |
| | 12 | 8 | 30,0 |
| | 13 | 8 | 33,0 |
| | 15 | 8 | 37,0 |
| | 8 | 8 | 38,0 |
| | 9 | 8 | 42,0 |
| 10 | 8 | 46,0 | |
| 11 | 8 | 50,5 | |
| 12 | 8 | 55,0 | |

Table 4

| Seed Plate | Sprocket size | | Qty of seed per linear meter |
|------------------------------|---------------|-----------|------------------------------|
| | Motor "A" | Moved "B" | |
| 40 holes Thickness 4,5 mm | 8 | 15 | 10,2 |
| | 8 | 13 | 12,0 |
| | 8 | 12 | 13,5 |
| | 8 | 11 | 14,0 |
| | 8 | 10 | 16,0 |
| | 8 | 9 | 18,0 |
| | 8 | 8 | 19,5 |
| | 9 | 8 | 22,5 |
| | 10 | 8 | 24,0 |
| | 11 | 8 | 27,0 |
| | 12 | 8 | 29,0 |
| | 13 | 8 | 32,0 |
| | 15 | 8 | 37,0 |
| | 8 | 8 | 32,5 |
| | 9 | 8 | 36,1 |
| 10 | 8 | 41,8 | |
| 11 | 8 | 43,0 | |
| 12 | 8 | 35,7 | |
| 13 | 8 | 53,7 | |

Table 5

Table 6

| Seed Plate | Sprocket size | | Qty of seed per linear meter | |
|------------------------------|------------------------------|-----------|------------------------------|------|
| | Motor "A" | Moved "B" | | |
| 62 holes Thickness 4,5 mm | 8 | 15 | 9,0 | |
| | 8 | 13 | 10,0 | |
| | 8 | 12 | 11,0 | |
| | 8 | 11 | 12,0 | |
| | 8 | 10 | 13,0 | |
| | 8 | 9 | 14,5 | |
| | 8 | 8 | 16,5 | |
| | 9 | 8 | 18,0 | |
| | 10 | 8 | 20,5 | |
| | 11 | 8 | 22,0 | |
| | 12 | 8 | 24,5 | |
| | 13 | 8 | 27,0 | |
| | 15 | 8 | 30,0 | |
| | 90 holes Thickness 8,0 mm | 8 | 15 | 13,5 |
| | | 8 | 13 | 15,0 |
| 8 | | 12 | 16,5 | |
| 8 | | 11 | 18,0 | |
| 8 | | 10 | 19,5 | |
| 8 | | 9 | 21,7 | |
| 8 | | 8 | 24,5 | |
| 9 | | 8 | 27,0 | |
| 10 | | 8 | 30,0 | |
| 11 | | 8 | 33,0 | |
| 12 | | 8 | 36,5 | |
| 13 | | 8 | 40,5 | |
| 15 | | 8 | 45,0 | |

SEED ADJUSTMENTS

MAIZE

01 - PLB Directa is supplied with 3 different types of plates for maize. Choose the best plate according to the maize seed that will be distributed.

| Seed Plate | Sprocket size | | Qty of seed per linear meter |
|------------------|---------------|-----------|------------------------------|
| | Motor "A" | Moved "B" | |
| 26 holes | 8 | 15 | 3,5 |
| | 8 | 13 | 4,0 |
| | 8 | 12 | 4,5 |
| | 8 | 11 | 5,0 |
| | 8 | 10 | 5,5 |
| Thickness 4,5 mm | 8 | 9 | 6,0 |
| | 8 | 8 | 6,5 |
| | 9 | 8 | 7,5 |
| | 10 | 8 | 8,5 |

Table 7

BEANS

| Seed Plate | Sprocket size | | Qty of seed per linear meter |
|------------------|---------------|-----------|------------------------------|
| | Motor "A" | Moved "B" | |
| 20 holes | 8 | 15 | 6,0 |
| | 8 | 12 | 7,0 |
| | 8 | 10 | 8,0 |
| | 8 | 8 | 9,0 |
| | 8 | 8 | 10,0 |
| Thickness 4,5 mm | 9 | 8 | 11,0 |
| | 10 | 8 | 12,0 |
| | 11 | 8 | 14,0 |
| | 12 | 8 | 15,0 |
| | 13 | 8 | 16,0 |
| | 15 | 8 | 17,0 |

Table 8

SORGHUM

| Seed Plate | Sprocket size | | Qty of seed per linear meter | |
|------------|----------------|-----------|------------------------------|------|
| | Motor "A" | Moved "B" | | |
| 50 holes | 8 | 17 | 6,0 | |
| | 8 | 15 | 7,0 | |
| | 8 | 13 | 8,0 | |
| | 8 | 12 | 9,0 | |
| | 8 | 11 | 10,0 | |
| | Thickness 3 mm | 8 | 10 | 11,0 |
| | | 8 | 9 | 12,0 |
| | | 8 | 8 | 13,0 |
| | | 9 | 8 | 15,0 |
| | | 10 | 8 | 17,0 |
| 8 | | 17 | 10,8 | |
| 8 | | 15 | 11,2 | |
| 8 | | 13 | 14,4 | |
| 90 holes | | 8 | 12 | 16,2 |
| | | 8 | 11 | 18,0 |
| | Thickness 3 mm | 8 | 10 | 19,5 |
| | | 8 | 9 | 21,6 |
| | | 8 | 8 | 23,4 |
| | | 9 | 8 | 27,0 |
| | | 10 | 8 | 30,6 |

Table 9

RICE

| Seed Plate | Sprocket size | | Qty of seed per linear meter |
|---------------------------------|---------------|-----------|------------------------------|
| | Motor "A" | Moved "B" | |
| 26 holes Thickness 4,5 mm | 8 | 15 | 28 to 32 |
| | 8 | 13 | 32 to 35 |
| | 8 | 12 | 35 to 40 |
| | 8 | 11 | 40 to 45 |
| | 8 | 10 | 45 to 50 |
| | 8 | 9 | 50 to 53 |
| | 8 | 8 | 53 to 56 |
| | 9 | 8 | 65 to 75 |
| 10 | 8 | 68 to 73 | |

Table 10

SUNFLOWER

| Seed Plate | Sprocket size | | Qty of seed per linear meter |
|---------------------------------|---------------|-----------|------------------------------|
| | Motor "A" | Moved "B" | |
| 20 holes Thickness 4,5 mm | 8 | 15 | 2,7 |
| | 8 | 13 | 3,1 |
| | 8 | 12 | 3,5 |
| | 8 | 11 | 3,8 |
| | 8 | 10 | 4,3 |
| | 8 | 9 | 4,6 |
| | 8 | 8 | 5,0 |
| | 9 | 8 | 5,8 |
| | 10 | 8 | 6,5 |
| | 11 | 8 | 7,5 |
| 12 | 8 | 8,5 | |

Table 12

PEANUT

| Seed Plate | Sprocket size | | Qty of seed per linear meter |
|-------------------------------|---------------|-----------|------------------------------|
| | Motor "A" | Moved "B" | |
| 19 holes Thickness 6 mm | 8 | 8 | 10,0 |
| | 9 | 8 | 11,0 |
| | 10 | 8 | 12,0 |
| | 11 | 8 | 13,0 |
| | 12 | 8 | 14,0 |
| | 13 | 8 | 15,0 |
| | 15 | 8 | 17,0 |
| 17 | 8 | 18,0 | |

Table 11

COTTON WITHOUT LINTER

| Seed Plate | Sprocket size | | Qty of seed per linear meter |
|---------------------------------|---------------|-----------|------------------------------|
| | Motor "A" | Moved "B" | |
| 26 holes Thickness 4,5 mm | 8 | 17 | 4,6 |
| | 8 | 15 | 5,4 |
| | 8 | 13 | 6,2 |
| | 8 | 12 | 7,0 |
| | 8 | 11 | 7,7 |
| | 8 | 10 | 8,5 |
| | 8 | 9 | 9,3 |
| | 9 | 8 | 11,5 |
| | 10 | 8 | 13,0 |

Table 13

CALIBRATION

SEED AND FERTILIZER CALIBRATION

- 01 - The seed distribution is done by horizontal plates. In order to increase or decrease the quantity of seeds to be distributed a a linear meter, you should change sprockets "A" (motor) and "B" (moved) until you find the desired combination.
 - 02 - To adjust the fertilizer, you should change sprockets "C" and "D". Notice that you first have to set the seed sprockets (A and B) before to set the fertilizer. The fertilizer distribution tables indicate different quantities of fertilizer to be distributed per hectare on spacings between 400 mm and 1000 mm.
- Exemple : To fertilize 450 Kg / Ha, with spacing of 450 mm, set sprockets "A" /8 - "B" /17 - "C" /15 - "D" / 8, according to specification of tables on pages 21 a 27.

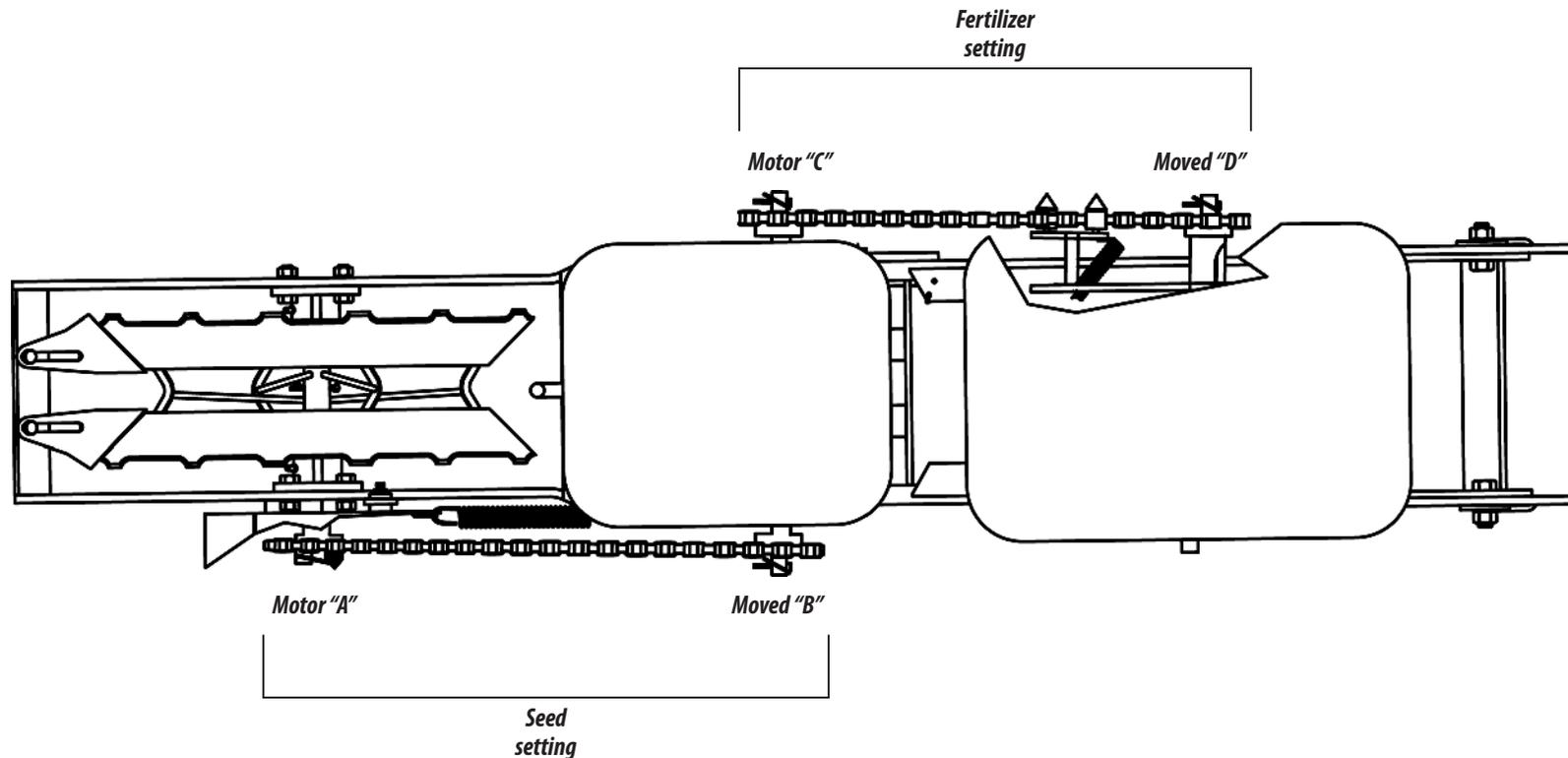


Figure 24

| Motor "A" | Moved seed "B" | Motor fertilizer "C" | Moved fertilizer "D" | Grams / 16 linear meter | Kilograms per hectare (10.000 m ²) for the different spacings between rows | | | | | | | | | | | | | Table 14 |
|-----------|----------------|----------------------|----------------------|-------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----------|
| | | | | | 420 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | |
| 8 | 17 | 8 | 21 | 66 | 102,75 | 92 | 82 | 75 | 68 | 63 | 59 | 55 | 51 | 48 | 46 | 43 | 41 | |
| 8 | 17 | 8 | 19 | 73 | 113,74 | 101 | 91 | 83 | 76 | 70 | 65 | 61 | 57 | 54 | 51 | 48 | 46 | |
| 8 | 17 | 8 | 17 | 81 | 127,12 | 113 | 102 | 92 | 85 | 78 | 73 | 68 | 64 | 60 | 57 | 54 | 51 | |
| 8 | 17 | 8 | 15 | 92 | 144,07 | 128 | 115 | 105 | 96 | 89 | 82 | 77 | 72 | 68 | 64 | 61 | 58 | |
| 8 | 17 | 8 | 13 | 106 | 166,23 | 148 | 133 | 121 | 111 | 102 | 95 | 89 | 83 | 78 | 74 | 70 | 67 | |
| 8 | 17 | 8 | 12 | 115 | 180,09 | 160 | 144 | 131 | 120 | 111 | 103 | 96 | 90 | 85 | 80 | 76 | 72 | |
| 8 | 17 | 8 | 11 | 126 | 196,46 | 175 | 157 | 143 | 131 | 121 | 112 | 105 | 98 | 92 | 87 | 83 | 79 | |
| 8 | 17 | 8 | 10 | 138 | 216,10 | 192 | 173 | 157 | 144 | 133 | 123 | 115 | 108 | 102 | 96 | 91 | 86 | |
| 8 | 17 | 8 | 9 | 154 | 240,11 | 243 | 192 | 175 | 160 | 148 | 137 | 128 | 120 | 113 | 107 | 101 | 96 | |
| 8 | 17 | 8 | 8 | 173 | 270,13 | 240 | 216 | 196 | 180 | 165 | 154 | 144 | 135 | 127 | 120 | 114 | 108 | |
| 8 | 17 | 21 | 8 | 454 | 709,09 | 630 | 567 | 516 | 473 | 436 | 405 | 378 | 354 | 334 | 315 | 299 | 284 | |
| 8 | 17 | 19 | 8 | 411 | 641,55 | 570 | 513 | 467 | 428 | 395 | 367 | 342 | 321 | 302 | 285 | 270 | 256 | |
| 8 | 17 | 17 | 8 | 367 | 574,02 | 510 | 459 | 417 | 383 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 230 | |
| 8 | 17 | 15 | 8 | 324 | 506,49 | 450 | 405 | 368 | 338 | 312 | 289 | 270 | 253 | 238 | 225 | 213 | 203 | |
| 8 | 17 | 13 | 8 | 281 | 438,96 | 390 | 351 | 319 | 293 | 270 | 251 | 234 | 219 | 207 | 195 | 185 | 176 | |
| 8 | 17 | 12 | 8 | 259 | 405,19 | 360 | 324 | 295 | 270 | 249 | 232 | 216 | 203 | 191 | 180 | 171 | 162 | |
| 8 | 17 | 11 | 8 | 238 | 371,43 | 330 | 297 | 270 | 248 | 229 | 212 | 198 | 186 | 175 | 165 | 156 | 149 | |
| 8 | 17 | 10 | 8 | 216 | 337,66 | 300 | 270 | 245 | 225 | 208 | 193 | 180 | 169 | 159 | 150 | 142 | 135 | |
| 8 | 17 | 9 | 8 | 194 | 303,89 | 270 | 243 | 221 | 203 | 187 | 174 | 162 | 152 | 143 | 135 | 128 | 122 | |
| 8 | 15 | 8 | 21 | 75 | 116,50 | 103 | 93 | 85 | 78 | 72 | 67 | 62 | 58 | 55 | 52 | 49 | 47 | |
| 8 | 15 | 8 | 19 | 82 | 128,87 | 114 | 103 | 94 | 86 | 79 | 74 | 69 | 64 | 61 | 57 | 54 | 52 | |
| 8 | 15 | 8 | 17 | 92 | 144,04 | 128 | 115 | 105 | 96 | 89 | 82 | 77 | 72 | 68 | 64 | 61 | 58 | |
| 8 | 15 | 8 | 15 | 104 | 163,24 | 145 | 131 | 119 | 109 | 100 | 93 | 87 | 82 | 77 | 73 | 69 | 65 | |
| 8 | 15 | 8 | 13 | 120 | 188,35 | 167 | 151 | 137 | 125 | 116 | 108 | 100 | 94 | 89 | 84 | 79 | 75 | |
| 8 | 15 | 8 | 12 | 130 | 204,05 | 181 | 163 | 148 | 136 | 126 | 117 | 109 | 102 | 96 | 91 | 86 | 82 | |
| 8 | 15 | 8 | 11 | 142 | 222,6 | 198 | 178 | 162 | 148 | 137 | 127 | 119 | 111 | 105 | 99 | 94 | 89 | |
| 8 | 15 | 8 | 10 | 157 | 244,86 | 218 | 196 | 178 | 163 | 151 | 140 | 130 | 122 | 115 | 109 | 103 | 98 | |
| 8 | 15 | 8 | 9 | 174 | 272,07 | 242 | 218 | 198 | 181 | 167 | 155 | 145 | 136 | 128 | 121 | 115 | 109 | |
| 8 | 15 | 8 | 8 | 196 | 306,08 | 272 | 245 | 223 | 204 | 188 | 175 | 163 | 153 | 144 | 136 | 129 | 122 | |
| 8 | 15 | 21 | 8 | 514 | 803,45 | 714 | 643 | 584 | 536 | 497 | 459 | 428 | 402 | 378 | 357 | 338 | 321 | |
| 8 | 15 | 19 | 8 | 465 | 726,93 | 646 | 581 | 529 | 485 | 447 | 415 | 387 | 363 | 342 | 323 | 306 | 291 | |
| 8 | 15 | 17 | 8 | 416 | 650,41 | 578 | 520 | 473 | 434 | 400 | 372 | 346 | 325 | 306 | 289 | 274 | 260 | |
| 8 | 15 | 15 | 8 | 367 | 573,89 | 510 | 459 | 417 | 382 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 230 | |
| 8 | 15 | 13 | 8 | 318 | 497,37 | 442 | 398 | 362 | 332 | 306 | 284 | 265 | 249 | 234 | 221 | 209 | 199 | |
| 8 | 15 | 12 | 8 | 294 | 459,11 | 408 | 367 | 334 | 306 | 282 | 262 | 244 | 230 | 216 | 204 | 194 | 184 | |
| 8 | 15 | 11 | 8 | 269 | 420,85 | 374 | 337 | 306 | 280 | 259 | 240 | 224 | 210 | 198 | 187 | 177 | 168 | |
| 8 | 15 | 10 | 8 | 245 | 382,59 | 340 | 306 | 278 | 255 | 235 | 219 | 204 | 191 | 180 | 170 | 161 | 153 | |
| 8 | 15 | 9 | 8 | 220 | 344,33 | 306 | 275 | 250 | 230 | 212 | 197 | 183 | 172 | 162 | 153 | 145 | 138 | |

FERTILIZER DISTRIBUTION TABLE

FERTILIZER DISTRIBUTION TABLE

| Motor "A" | Moved seed "B" | Motor fertilizer "C" | Moved fertilizer "D" | Grams / 16 linear meter | Kilograms per hectare (10.000 m ²) for the different spacings between rows | | | | | | | | | | | | Table 15 |
|-----------|----------------|----------------------|----------------------|-------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|
| | | | | | 420 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | |
| 8 | 13 | 8 | 21 | 86 | 134 | 119 | 107 | 98 | 90 | 83 | 77 | 71 | 67 | 63 | 60 | 57 | 54 |
| 8 | 13 | 8 | 19 | 95 | 149 | 132 | 119 | 108 | 99 | 91 | 85 | 79 | 74 | 70 | 66 | 63 | 59 |
| 8 | 13 | 8 | 17 | 106 | 166 | 148 | 133 | 121 | 111 | 102 | 95 | 88 | 83 | 78 | 74 | 70 | 66 |
| 8 | 13 | 8 | 15 | 121 | 188 | 167 | 151 | 137 | 126 | 116 | 108 | 100 | 94 | 89 | 84 | 79 | 75 |
| 8 | 13 | 8 | 13 | 139 | 217 | 193 | 174 | 158 | 145 | 134 | 124 | 116 | 109 | 102 | 97 | 91 | 87 |
| 8 | 13 | 8 | 12 | 151 | 235 | 209 | 188 | 171 | 157 | 145 | 134 | 125 | 118 | 111 | 105 | 99 | 94 |
| 8 | 13 | 8 | 11 | 164 | 257 | 228 | 205 | 186 | 171 | 158 | 147 | 137 | 128 | 121 | 114 | 108 | 103 |
| 8 | 13 | 8 | 10 | 181 | 282 | 251 | 226 | 205 | 188 | 174 | 161 | 150 | 141 | 133 | 126 | 119 | 113 |
| 8 | 13 | 8 | 9 | 201 | 314 | 279 | 251 | 228 | 209 | 193 | 179 | 167 | 157 | 148 | 139 | 132 | 126 |
| 8 | 13 | 8 | 8 | 226 | 353 | 314 | 282 | 257 | 235 | 217 | 202 | 188 | 177 | 166 | 157 | 149 | 141 |
| 8 | 13 | 21 | 8 | 593 | 927 | 824 | 741 | 674 | 618 | 570 | 530 | 493 | 463 | 436 | 412 | 390 | 371 |
| 8 | 13 | 19 | 8 | 537 | 839 | 745 | 671 | 610 | 559 | 516 | 479 | 447 | 419 | 395 | 373 | 353 | 335 |
| 8 | 13 | 17 | 8 | 480 | 750 | 667 | 600 | 546 | 500 | 462 | 429 | 400 | 375 | 353 | 333 | 316 | 300 |
| 8 | 13 | 15 | 8 | 424 | 662 | 588 | 530 | 481 | 441 | 407 | 378 | 353 | 331 | 312 | 294 | 279 | 265 |
| 8 | 13 | 13 | 8 | 367 | 574 | 510 | 459 | 417 | 382 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 229 |
| 8 | 13 | 12 | 8 | 339 | 530 | 471 | 424 | 385 | 353 | 326 | 303 | 282 | 265 | 249 | 235 | 223 | 212 |
| 8 | 13 | 11 | 8 | 311 | 485 | 432 | 389 | 353 | 324 | 299 | 277 | 259 | 243 | 228 | 216 | 204 | 194 |
| 8 | 13 | 10 | 8 | 282 | 441 | 392 | 353 | 321 | 294 | 272 | 252 | 235 | 221 | 208 | 196 | 186 | 177 |
| 8 | 13 | 9 | 8 | 254 | 397 | 353 | 318 | 289 | 265 | 244 | 227 | 212 | 199 | 187 | 177 | 167 | 159 |
| 8 | 12 | 8 | 21 | 93 | 146 | 130 | 117 | 106 | 97 | 90 | 83 | 78 | 73 | 69 | 65 | 61 | 58 |
| 8 | 12 | 8 | 19 | 103 | 161 | 143 | 129 | 117 | 107 | 99 | 92 | 86 | 81 | 76 | 72 | 68 | 64 |
| 8 | 12 | 8 | 17 | 115 | 180 | 160 | 144 | 131 | 120 | 111 | 103 | 96 | 90 | 85 | 80 | 76 | 72 |
| 8 | 12 | 8 | 15 | 131 | 204 | 181 | 163 | 148 | 136 | 126 | 117 | 109 | 102 | 96 | 91 | 86 | 81 |
| 8 | 12 | 8 | 13 | 151 | 235 | 209 | 188 | 171 | 157 | 145 | 135 | 125 | 118 | 111 | 105 | 99 | 94 |
| 8 | 12 | 8 | 12 | 163 | 255 | 227 | 204 | 185 | 170 | 157 | 146 | 136 | 128 | 120 | 113 | 108 | 102 |
| 8 | 12 | 8 | 11 | 178 | 278 | 247 | 223 | 202 | 185 | 171 | 159 | 148 | 139 | 131 | 124 | 117 | 111 |
| 8 | 12 | 8 | 10 | 196 | 306 | 272 | 245 | 223 | 204 | 188 | 175 | 163 | 153 | 144 | 136 | 129 | 122 |
| 8 | 12 | 8 | 9 | 218 | 340 | 302 | 272 | 247 | 227 | 209 | 194 | 181 | 170 | 160 | 151 | 143 | 136 |
| 8 | 12 | 8 | 8 | 245 | 383 | 340 | 306 | 278 | 255 | 235 | 219 | 204 | 191 | 180 | 170 | 161 | 153 |
| 8 | 12 | 21 | 8 | 643 | 1004 | 893 | 803 | 730 | 669 | 618 | 574 | 535 | 502 | 472 | 446 | 423 | 402 |
| 8 | 12 | 19 | 8 | 581 | 909 | 808 | 727 | 661 | 606 | 559 | 519 | 484 | 454 | 428 | 404 | 383 | 363 |
| 8 | 12 | 17 | 8 | 520 | 813 | 723 | 650 | 591 | 542 | 500 | 464 | 433 | 406 | 383 | 361 | 342 | 325 |
| 8 | 12 | 15 | 8 | 459 | 717 | 638 | 574 | 522 | 478 | 441 | 409 | 382 | 359 | 338 | 319 | 302 | 287 |
| 8 | 12 | 13 | 8 | 398 | 622 | 553 | 497 | 452 | 414 | 383 | 355 | 331 | 311 | 293 | 276 | 262 | 249 |
| 8 | 12 | 12 | 8 | 367 | 574 | 510 | 459 | 417 | 383 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 230 |
| 8 | 12 | 11 | 8 | 337 | 526 | 467 | 421 | 383 | 351 | 324 | 301 | 280 | 263 | 248 | 234 | 221 | 210 |
| 8 | 12 | 10 | 8 | 306 | 478 | 425 | 383 | 348 | 319 | 294 | 273 | 255 | 239 | 225 | 213 | 201 | 191 |
| 8 | 12 | 9 | 8 | 275 | 430 | 383 | 344 | 313 | 287 | 265 | 246 | 229 | 215 | 203 | 191 | 181 | 172 |

| Motor "A" | Moved seed "B" | Motor fertilizer "C" | Moved fertilizer "D" | Grams / 16 linear meter | Kilograms per hectare (10.000 m ²) for the different spacings between rows | | | | | | | | | | | | |
|-----------|----------------|----------------------|----------------------|-------------------------|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| | | | | | 420 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 8 | 11 | 8 | 21 | 102 | 159 | 141 | 127 | 116 | 106 | 98 | 91 | 85 | 80 | 75 | 71 | 67 | 61 |
| 8 | 11 | 8 | 19 | 112 | 176 | 156 | 141 | 128 | 117 | 108 | 100 | 94 | 88 | 83 | 78 | 74 | 70 |
| 8 | 11 | 8 | 17 | 126 | 196 | 175 | 157 | 143 | 131 | 121 | 112 | 105 | 98 | 92 | 87 | 83 | 79 |
| 8 | 11 | 8 | 15 | 142 | 223 | 198 | 178 | 162 | 148 | 137 | 127 | 119 | 111 | 105 | 99 | 94 | 89 |
| 8 | 11 | 8 | 13 | 164 | 257 | 228 | 206 | 187 | 171 | 158 | 147 | 137 | 128 | 121 | 115 | 109 | 103 |
| 8 | 11 | 8 | 12 | 178 | 278 | 247 | 223 | 202 | 186 | 171 | 159 | 148 | 139 | 131 | 124 | 117 | 112 |
| 8 | 11 | 8 | 11 | 194 | 304 | 270 | 243 | 221 | 202 | 187 | 173 | 162 | 152 | 143 | 135 | 128 | 121 |
| 8 | 11 | 8 | 10 | 214 | 334 | 297 | 267 | 243 | 223 | 206 | 191 | 178 | 167 | 157 | 148 | 141 | 134 |
| 8 | 11 | 8 | 9 | 237 | 371 | 330 | 297 | 270 | 247 | 229 | 212 | 198 | 185 | 175 | 165 | 156 | 148 |
| 8 | 11 | 8 | 8 | 267 | 417 | 371 | 334 | 304 | 278 | 257 | 238 | 222 | 209 | 196 | 186 | 176 | 167 |
| 8 | 11 | 21 | 8 | 701 | 1096 | 974 | 877 | 795 | 731 | 674 | 626 | 584 | 548 | 516 | 487 | 461 | 438 |
| 8 | 11 | 19 | 8 | 635 | 91 | 881 | 793 | 721 | 661 | 610 | 567 | 528 | 496 | 466 | 441 | 417 | 397 |
| 8 | 11 | 17 | 8 | 568 | 887 | 789 | 710 | 645 | 591 | 546 | 507 | 472 | 444 | 417 | 394 | 374 | 355 |
| 8 | 11 | 15 | 8 | 501 | 783 | 696 | 626 | 569 | 522 | 482 | 447 | 417 | 391 | 368 | 348 | 330 | 313 |
| 8 | 11 | 13 | 8 | 534 | 378 | 603 | 543 | 493 | 452 | 417 | 688 | 361 | 339 | 319 | 302 | 286 | 271 |
| 8 | 11 | 12 | 8 | 401 | 626 | 557 | 501 | 455 | 417 | 385 | 358 | 333 | 313 | 295 | 278 | 264 | 250 |
| 8 | 11 | 11 | 8 | 367 | 574 | 510 | 459 | 417 | 383 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 230 |
| 8 | 11 | 10 | 8 | 334 | 522 | 464 | 417 | 380 | 348 | 321 | 298 | 278 | 261 | 245 | 232 | 220 | 209 |
| 8 | 11 | 9 | 8 | 301 | 470 | 417 | 376 | 341 | 313 | 289 | 268 | 250 | 235 | 221 | 209 | 198 | 188 |
| 8 | 10 | 8 | 21 | 112 | 175 | 155 | 140 | 127 | 116 | 108 | 100 | 93 | 88 | 82 | 78 | 74 | 70 |
| 8 | 10 | 8 | 19 | 124 | 193 | 172 | 155 | 148 | 129 | 119 | 110 | 103 | 97 | 91 | 86 | 81 | 77 |
| 8 | 10 | 8 | 17 | 138 | 216 | 192 | 173 | 157 | 144 | 133 | 123 | 115 | 108 | 102 | 96 | 91 | 86 |
| 8 | 10 | 8 | 15 | 157 | 245 | 218 | 196 | 178 | 163 | 151 | 140 | 130 | 122 | 115 | 109 | 103 | 98 |
| 8 | 10 | 8 | 13 | 181 | 282 | 251 | 226 | 205 | 188 | 174 | 161 | 150 | 141 | 133 | 125 | 119 | 113 |
| 8 | 10 | 8 | 12 | 196 | 306 | 272 | 245 | 223 | 204 | 188 | 175 | 163 | 153 | 144 | 136 | 129 | 122 |
| 8 | 10 | 8 | 11 | 214 | 334 | 297 | 267 | 243 | 223 | 205 | 191 | 178 | 167 | 157 | 148 | 141 | 134 |
| 8 | 10 | 8 | 10 | 235 | 367 | 326 | 294 | 267 | 245 | 226 | 210 | 196 | 184 | 173 | 163 | 155 | 147 |
| 8 | 10 | 8 | 9 | 261 | 408 | 363 | 326 | 297 | 272 | 251 | 233 | 217 | 204 | 192 | 181 | 172 | 163 |
| 8 | 10 | 8 | 8 | 294 | 459 | 408 | 367 | 334 | 306 | 282 | 262 | 244 | 229 | 216 | 204 | 193 | 184 |
| 8 | 10 | 21 | 8 | 771 | 1205 | 1071 | 964 | 876 | 803 | 742 | 689 | 642 | 602 | 567 | 532 | 507 | 482 |
| 8 | 10 | 19 | 8 | 698 | 1090 | 969 | 872 | 793 | 727 | 671 | 623 | 581 | 545 | 513 | 485 | 459 | 436 |
| 8 | 10 | 17 | 8 | 624 | 975 | 867 | 780 | 709 | 650 | 600 | 557 | 519 | 488 | 459 | 434 | 411 | 390 |
| 8 | 10 | 15 | 8 | 551 | 861 | 765 | 689 | 626 | 574 | 530 | 492 | 458 | 430 | 405 | 383 | 362 | 344 |
| 8 | 10 | 13 | 8 | 477 | 746 | 663 | 597 | 542 | 498 | 459 | 426 | 397 | 373 | 351 | 331 | 314 | 298 |
| 8 | 10 | 12 | 8 | 441 | 689 | 612 | 551 | 501 | 459 | 424 | 393 | 367 | 344 | 324 | 306 | 290 | 275 |
| 8 | 10 | 11 | 8 | 404 | 631 | 561 | 505 | 459 | 421 | 388 | 361 | 336 | 316 | 297 | 281 | 266 | 252 |
| 8 | 10 | 10 | 8 | 367 | 574 | 510 | 459 | 417 | 383 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 230 |
| 8 | 10 | 9 | 8 | 330 | 516 | 459 | 413 | 376 | 344 | 318 | 295 | 275 | 258 | 243 | 230 | 217 | 207 |

FERTILIZER DISTRIBUTION TABLE

FERTILIZER DISTRIBUTION TABLE

| Motor "A" | Moved seed "B" | Motor fertilizer "C" | Moved fertilizer "D" | Grams / 16 linear meter | Kilograms per hectare (10.000 m ²) for the different spacings between rows | | | | | | | | | | | | |
|-----------|----------------|----------------------|----------------------|-------------------------|--|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|
| | | | | | 420 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 8 | 9 | 8 | 21 | 124 | 195 | 173 | 156 | 141 | 130 | 120 | 111 | 104 | 97 | 92 | 86 | 82 | 78 |
| 8 | 9 | 8 | 19 | 137 | 215 | 191 | 173 | 156 | 143 | 132 | 123 | 114 | 107 | 101 | 95 | 90 | 86 |
| 8 | 9 | 8 | 17 | 154 | 240 | 213 | 192 | 175 | 160 | 148 | 137 | 128 | 120 | 113 | 107 | 101 | 96 |
| 8 | 9 | 8 | 15 | 174 | 272 | 242 | 218 | 198 | 181 | 167 | 155 | 145 | 136 | 128 | 121 | 115 | 109 |
| 8 | 9 | 8 | 13 | 201 | 314 | 279 | 251 | 228 | 209 | 193 | 179 | 167 | 157 | 148 | 139 | 131 | 126 |
| 8 | 9 | 8 | 12 | 218 | 340 | 302 | 272 | 247 | 227 | 209 | 194 | 181 | 170 | 160 | 151 | 143 | 136 |
| 8 | 9 | 8 | 11 | 237 | 370 | 330 | 297 | 270 | 274 | 228 | 212 | 198 | 185 | 175 | 165 | 156 | 149 |
| 8 | 9 | 8 | 10 | 261 | 408 | 363 | 326 | 297 | 272 | 251 | 233 | 217 | 204 | 192 | 181 | 172 | 163 |
| 8 | 9 | 8 | 9 | 290 | 453 | 403 | 363 | 330 | 302 | 279 | 259 | 241 | 227 | 231 | 201 | 191 | 181 |
| 8 | 9 | 8 | 8 | 326 | 510 | 453 | 408 | 371 | 340 | 314 | 291 | 272 | 255 | 240 | 227 | 215 | 204 |
| 8 | 9 | 21 | 8 | 857 | 1339 | 1190 | 1080 | 974 | 893 | 824 | 765 | 713 | 669 | 630 | 595 | 564 | 535 |
| 8 | 9 | 19 | 8 | 775 | 1211 | 1077 | 969 | 881 | 808 | 795 | 692 | 645 | 606 | 570 | 538 | 510 | 484 |
| 8 | 9 | 17 | 8 | 694 | 1084 | 963 | 867 | 788 | 723 | 667 | 619 | 577 | 542 | 510 | 482 | 456 | 433 |
| 8 | 9 | 15 | 8 | 612 | 956 | 850 | 765 | 695 | 638 | 588 | 546 | 509 | 478 | 450 | 425 | 403 | 382 |
| 8 | 9 | 13 | 8 | 530 | 829 | 737 | 663 | 603 | 553 | 510 | 473 | 441 | 414 | 390 | 368 | 349 | 331 |
| 8 | 9 | 12 | 8 | 489 | 765 | 680 | 612 | 556 | 510 | 471 | 437 | 407 | 382 | 360 | 340 | 322 | 306 |
| 8 | 9 | 11 | 8 | 49 | 701 | 623 | 561 | 510 | 468 | 432 | 401 | 373 | 351 | 330 | 312 | 295 | 280 |
| 8 | 9 | 10 | 8 | 408 | 638 | 567 | 510 | 464 | 425 | 392 | 364 | 339 | 319 | 300 | 283 | 268 | 255 |
| 8 | 9 | 9 | 8 | 367 | 574 | 510 | 459 | 417 | 383 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 229 |
| 8 | 8 | 8 | 21 | 140 | 219 | 194 | 175 | 159 | 146 | 134 | 125 | 116 | 109 | 103 | 97 | 92 | 87 |
| 8 | 8 | 8 | 19 | 155 | 241 | 215 | 193 | 176 | 161 | 149 | 138 | 129 | 121 | 114 | 107 | 102 | 97 |
| 8 | 8 | 8 | 17 | 173 | 270 | 240 | 216 | 196 | 180 | 166 | 154 | 144 | 135 | 127 | 120 | 114 | 108 |
| 8 | 8 | 8 | 15 | 196 | 306 | 272 | 245 | 222 | 204 | 188 | 175 | 167 | 153 | 144 | 136 | 129 | 122 |
| 8 | 8 | 8 | 13 | 226 | 353 | 314 | 282 | 257 | 235 | 217 | 202 | 188 | 176 | 166 | 157 | 149 | 141 |
| 8 | 8 | 8 | 12 | 245 | 382 | 340 | 306 | 278 | 255 | 235 | 218 | 204 | 191 | 180 | 170 | 161 | 153 |
| 8 | 8 | 8 | 11 | 267 | 417 | 371 | 334 | 303 | 279 | 257 | 238 | 224 | 209 | 196 | 185 | 176 | 167 |
| 8 | 8 | 8 | 10 | 294 | 459 | 408 | 367 | 334 | 306 | 282 | 262 | 244 | 229 | 216 | 204 | 194 | 184 |
| 8 | 8 | 8 | 9 | 326 | 510 | 453 | 408 | 371 | 340 | 314 | 291 | 271 | 255 | 240 | 227 | 215 | 204 |
| 8 | 8 | 8 | 8 | 367 | 573 | 510 | 459 | 417 | 382 | 353 | 328 | 305 | 287 | 270 | 255 | 241 | 229 |
| 8 | 8 | 21 | 8 | 963 | 1505 | 1338 | 1204 | 1095 | 1004 | 926 | 860 | 802 | 753 | 708 | 669 | 634 | 602 |
| 8 | 8 | 19 | 8 | 872 | 1362 | 1213 | 1084 | 991 | 908 | 838 | 778 | 725 | 681 | 641 | 605 | 573 | 545 |
| 8 | 8 | 17 | 8 | 780 | 1218 | 1083 | 975 | 886 | 812 | 750 | 696 | 649 | 609 | 574 | 542 | 513 | 487 |
| 8 | 8 | 15 | 8 | 688 | 1075 | 956 | 860 | 782 | 717 | 662 | 614 | 573 | 538 | 506 | 478 | 453 | 430 |
| 8 | 8 | 13 | 8 | 596 | 932 | 828 | 746 | 678 | 621 | 574 | 532 | 496 | 466 | 439 | 414 | 392 | 373 |
| 8 | 8 | 12 | 8 | 551 | 860 | 764 | 688 | 626 | 574 | 529 | 491 | 458 | 430 | 405 | 382 | 362 | 344 |
| 8 | 8 | 11 | 8 | 505 | 789 | 701 | 631 | 574 | 526 | 485 | 451 | 420 | 394 | 371 | 350 | 332 | 315 |
| 8 | 8 | 10 | 8 | 459 | 717 | 637 | 573 | 521 | 478 | 441 | 410 | 382 | 358 | 337 | 319 | 302 | 287 |
| 8 | 8 | 9 | 8 | 413 | 645 | 574 | 516 | 469 | 430 | 397 | 369 | 343 | 323 | 304 | 287 | 272 | 258 |

| Motor "A" | Moved seed "B" | Motor fertilizer "C" | Moved fertilizer "D" | Grams / 16 linear meter | Kilograms per hectare (10.000 m ²) for the different spacings between rows | | | | | | | | | | | | |
|-----------|----------------|----------------------|----------------------|-------------------------|--|------|------|------|------|------|------|------|-----|-----|-----|-----|------|
| | | | | | 420 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 8 | 9 | 8 | 21 | 158 | 246 | 219 | 197 | 179 | 164 | 152 | 141 | 131 | 123 | 16 | 109 | 104 | 98 |
| 8 | 9 | 8 | 19 | 174 | 272 | 242 | 218 | 198 | 181 | 167 | 155 | 145 | 136 | 128 | 121 | 114 | 109 |
| 8 | 9 | 8 | 17 | 194 | 304 | 270 | 243 | 221 | 203 | 187 | 174 | 162 | 152 | 143 | 135 | 128 | 122 |
| 8 | 9 | 8 | 15 | 220 | 344 | 306 | 276 | 250 | 230 | 212 | 197 | 183 | 172 | 162 | 153 | 145 | 138 |
| 8 | 9 | 8 | 13 | 254 | 398 | 353 | 318 | 289 | 265 | 245 | 227 | 212 | 199 | 187 | 177 | 167 | 159 |
| 8 | 9 | 8 | 12 | 276 | 431 | 383 | 344 | 313 | 287 | 265 | 246 | 229 | 215 | 203 | 191 | 181 | 172 |
| 8 | 9 | 8 | 11 | 301 | 470 | 417 | 376 | 342 | 313 | 289 | 268 | 250 | 235 | 221 | 209 | 198 | 188 |
| 8 | 9 | 8 | 10 | 331 | 517 | 459 | 413 | 376 | 344 | 318 | 295 | 275 | 258 | 243 | 230 | 218 | 207 |
| 8 | 9 | 8 | 9 | 367 | 574 | 510 | 459 | 417 | 383 | 354 | 328 | 306 | 287 | 270 | 255 | 242 | 230 |
| 8 | 9 | 8 | 8 | 413 | 646 | 574 | 517 | 470 | 431 | 397 | 369 | 344 | 323 | 304 | 287 | 272 | 258 |
| 8 | 9 | 21 | 8 | 1085 | 1695 | 1507 | 1356 | 1233 | 1130 | 1043 | 969 | 903 | 855 | 798 | 753 | 714 | 678 |
| 8 | 9 | 19 | 8 | 982 | 1534 | 1363 | 1227 | 1115 | 1022 | 944 | 876 | 817 | 767 | 722 | 682 | 646 | 613 |
| 8 | 9 | 17 | 8 | 878 | 1372 | 1220 | 1098 | 998 | 915 | 844 | 784 | 731 | 686 | 646 | 610 | 578 | 549 |
| 8 | 9 | 15 | 8 | 775 | 1211 | 1076 | 969 | 881 | 807 | 745 | 692 | 645 | 605 | 570 | 538 | 510 | 484 |
| 8 | 9 | 13 | 8 | 672 | 1049 | 933 | 839 | 763 | 700 | 646 | 600 | 559 | 525 | 494 | 466 | 442 | 420 |
| 8 | 9 | 12 | 8 | 620 | 967 | 861 | 775 | 704 | 646 | 596 | 554 | 516 | 484 | 456 | 430 | 408 | 387 |
| 8 | 9 | 11 | 8 | 568 | 888 | 789 | 710 | 646 | 592 | 546 | 507 | 473 | 444 | 418 | 395 | 374 | 355 |
| 8 | 9 | 10 | 8 | 517 | 807 | 717 | 646 | 587 | 538 | 497 | 461 | 430 | 404 | 380 | 359 | 340 | 323 |
| 8 | 9 | 9 | 8 | 465 | 726 | 646 | 581 | 528 | 484 | 447 | 415 | 387 | 363 | 342 | 323 | 306 | 291 |
| 8 | 8 | 8 | 21 | 175 | 273 | 243 | 218 | 199 | 180 | 168 | 156 | 145 | 136 | 128 | 121 | 115 | 109 |
| 8 | 8 | 8 | 19 | 193 | 302 | 268 | 241 | 220 | 201 | 186 | 172 | 161 | 151 | 142 | 134 | 127 | 121 |
| 8 | 8 | 8 | 17 | 216 | 337 | 300 | 270 | 245 | 225 | 208 | 193 | 180 | 169 | 159 | 150 | 142 | 135 |
| 8 | 8 | 8 | 15 | 245 | 382 | 340 | 306 | 278 | 255 | 235 | 218 | 204 | 191 | 180 | 170 | 161 | 153 |
| 8 | 8 | 8 | 13 | 282 | 441 | 392 | 353 | 321 | 294 | 272 | 252 | 235 | 221 | 208 | 196 | 186 | 176 |
| 8 | 8 | 8 | 12 | 306 | 478 | 425 | 382 | 348 | 319 | 294 | 273 | 255 | 239 | 225 | 212 | 201 | 191 |
| 8 | 8 | 8 | 11 | 334 | 521 | 463 | 417 | 379 | 348 | 321 | 298 | 278 | 261 | 245 | 232 | 220 | 209 |
| 8 | 8 | 8 | 10 | 367 | 574 | 510 | 459 | 417 | 382 | 353 | 328 | 305 | 287 | 270 | 246 | 241 | 229 |
| 8 | 8 | 8 | 9 | 408 | 637 | 566 | 510 | 463 | 425 | 392 | 364 | 339 | 319 | 300 | 283 | 268 | 255 |
| 8 | 8 | 8 | 8 | 459 | 717 | 637 | 574 | 521 | 478 | 441 | 407 | 382 | 358 | 337 | 319 | 302 | 287 |
| 8 | 8 | 21 | 8 | 1204 | 1882 | 1673 | 1506 | 1369 | 1255 | 1158 | 1075 | 1002 | 941 | 886 | 836 | 792 | 753 |
| 8 | 8 | 19 | 8 | 1090 | 1703 | 1513 | 1363 | 1238 | 1135 | 1048 | 943 | 907 | 851 | 801 | 757 | 717 | 681 |
| 8 | 8 | 17 | 8 | 975 | 1523 | 1354 | 1219 | 1108 | 1015 | 938 | 871 | 811 | 762 | 716 | 677 | 641 | 609 |
| 8 | 8 | 15 | 8 | 860 | 1344 | 1195 | 1075 | 978 | 896 | 827 | 768 | 716 | 672 | 633 | 597 | 566 | 538 |
| 8 | 8 | 13 | 8 | 744 | 1165 | 1036 | 932 | 847 | 776 | 717 | 666 | 620 | 582 | 548 | 518 | 490 | 466 |
| 8 | 8 | 12 | 8 | 688 | 1075 | 956 | 860 | 782 | 717 | 662 | 615 | 573 | 538 | 506 | 478 | 453 | 430 |
| 8 | 8 | 11 | 8 | 631 | 986 | 876 | 789 | 717 | 657 | 607 | 563 | 525 | 493 | 464 | 438 | 415 | 394 |
| 8 | 8 | 10 | 8 | 574 | 896 | 797 | 717 | 652 | 597 | 551 | 512 | 477 | 448 | 422 | 398 | 377 | 358 |
| 8 | 8 | 9 | 8 | 516 | 807 | 717 | 645 | 587 | 538 | 496 | 461 | 429 | 403 | 380 | 358 | 340 | 323 |

FERTILIZER DISTRIBUTION TABLE

FERTILIZER DISTRIBUTION TABLE

| Motor "A" | Moved seed "B" | Motor fertilizer "C" | Moved fertilizer "D" | Grams / 16 linear meter | Kilograms per hectare (10.000 m ²) for the different spacings between rows | | | | | | | | | | | | |
|-----------|----------------|----------------------|----------------------|-------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | 420 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 11 | 8 | 8 | 21 | 192 | 301 | 267 | 241 | 219 | 200 | 185 | 172 | 160 | 151 | 142 | 134 | 127 | 120 |
| 11 | 8 | 8 | 19 | 213 | 332 | 295 | 266 | 242 | 222 | 204 | 190 | 177 | 166 | 156 | 148 | 140 | 133 |
| 11 | 8 | 8 | 17 | 238 | 371 | 330 | 297 | 270 | 248 | 229 | 212 | 198 | 186 | 175 | 165 | 156 | 149 |
| 11 | 8 | 8 | 15 | 269 | 421 | 374 | 337 | 306 | 281 | 259 | 241 | 224 | 210 | 198 | 187 | 177 | 168 |
| 11 | 8 | 8 | 13 | 311 | 486 | 432 | 389 | 353 | 324 | 299 | 278 | 259 | 243 | 229 | 216 | 204 | 194 |
| 11 | 8 | 8 | 12 | 337 | 526 | 468 | 413 | 383 | 351 | 324 | 301 | 280 | 283 | 248 | 234 | 222 | 210 |
| 11 | 8 | 8 | 11 | 367 | 574 | 510 | 459 | 417 | 383 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 230 |
| 11 | 8 | 8 | 10 | 404 | 631 | 561 | 505 | 459 | 421 | 389 | 361 | 336 | 316 | 297 | 281 | 266 | 253 |
| 11 | 8 | 8 | 9 | 449 | 701 | 624 | 561 | 510 | 468 | 432 | 401 | 374 | 351 | 330 | 312 | 295 | 281 |
| 11 | 8 | 8 | 8 | 505 | 798 | 701 | 631 | 574 | 526 | 486 | 451 | 420 | 395 | 371 | 351 | 323 | 316 |
| 11 | 8 | 21 | 8 | 1326 | 2072 | 1841 | 1657 | 1507 | 1381 | 1275 | 1184 | 1103 | 1036 | 975 | 921 | 872 | 829 |
| 11 | 8 | 19 | 8 | 1200 | 1874 | 1666 | 1499 | 1363 | 1250 | 1153 | 1071 | 998 | 937 | 882 | 833 | 789 | 750 |
| 11 | 8 | 17 | 8 | 1073 | 1677 | 1491 | 1342 | 1220 | 1118 | 1032 | 958 | 893 | 839 | 789 | 745 | 706 | 671 |
| 11 | 8 | 15 | 8 | 947 | 1480 | 1315 | 1184 | 1076 | 986 | 911 | 846 | 788 | 740 | 696 | 657 | 623 | 592 |
| 11 | 8 | 13 | 8 | 821 | 1282 | 1140 | 1026 | 933 | 855 | 789 | 733 | 683 | 641 | 604 | 570 | 540 | 513 |
| 11 | 8 | 12 | 8 | 758 | 1184 | 1052 | 947 | 861 | 789 | 728 | 676 | 630 | 592 | 557 | 526 | 498 | 474 |
| 11 | 8 | 11 | 8 | 694 | 1085 | 965 | 868 | 789 | 723 | 667 | 620 | 578 | 543 | 511 | 482 | 457 | 434 |
| 11 | 8 | 10 | 8 | 631 | 986 | 877 | 789 | 717 | 658 | 607 | 563 | 525 | 493 | 464 | 438 | 415 | 395 |
| 11 | 8 | 9 | 8 | 568 | 888 | 789 | 710 | 646 | 592 | 546 | 507 | 473 | 444 | 418 | 395 | 374 | 355 |
| 13 | 8 | 8 | 21 | 227 | 355 | 316 | 284 | 258 | 237 | 219 | 203 | 189 | 178 | 167 | 158 | 150 | 142 |
| 13 | 8 | 8 | 19 | 251 | 393 | 349 | 314 | 286 | 262 | 242 | 224 | 209 | 196 | 185 | 175 | 165 | 157 |
| 13 | 8 | 8 | 17 | 281 | 439 | 390 | 351 | 319 | 293 | 270 | 251 | 234 | 219 | 207 | 195 | 185 | 176 |
| 13 | 8 | 8 | 15 | 318 | 497 | 442 | 398 | 362 | 332 | 306 | 284 | 265 | 249 | 234 | 221 | 209 | 199 |
| 13 | 8 | 8 | 13 | 367 | 574 | 510 | 459 | 417 | 383 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 230 |
| 13 | 8 | 8 | 12 | 398 | 622 | 553 | 497 | 452 | 414 | 383 | 355 | 331 | 311 | 293 | 276 | 262 | 250 |
| 11 | 8 | 8 | 11 | 434 | 378 | 603 | 543 | 493 | 452 | 417 | 388 | 361 | 339 | 319 | 301 | 286 | 271 |
| 13 | 8 | 8 | 10 | 447 | 746 | 663 | 597 | 543 | 497 | 459 | 426 | 397 | 373 | 351 | 332 | 314 | 298 |
| 13 | 8 | 8 | 9 | 531 | 829 | 737 | 663 | 603 | 553 | 510 | 474 | 441 | 414 | 390 | 368 | 349 | 332 |
| 13 | 8 | 8 | 8 | 597 | 933 | 829 | 746 | 678 | 622 | 574 | 533 | 497 | 466 | 439 | 414 | 393 | 373 |
| 13 | 8 | 21 | 8 | 1567 | 2448 | 2176 | 1958 | 1780 | 1632 | 1507 | 1399 | 1304 | 1224 | 1152 | 1088 | 1075 | 979 |
| 13 | 8 | 19 | 8 | 1418 | 2215 | 1969 | 1772 | 1611 | 1477 | 1363 | 1266 | 1180 | 1107 | 1042 | 984 | 933 | 886 |
| 13 | 8 | 17 | 8 | 1268 | 1982 | 1762 | 1585 | 1441 | 1321 | 1220 | 1132 | 1055 | 991 | 933 | 881 | 834 | 793 |
| 13 | 8 | 15 | 8 | 1119 | 1749 | 1554 | 1399 | 1272 | 1166 | 1076 | 999 | 931 | 874 | 823 | 777 | 736 | 699 |
| 13 | 8 | 13 | 8 | 970 | 1515 | 1347 | 1212 | 1102 | 1010 | 933 | 866 | 807 | 758 | 713 | 674 | 638 | 606 |
| 13 | 8 | 12 | 8 | 895 | 1399 | 1243 | 1119 | 1017 | 933 | 861 | 799 | 745 | 699 | 658 | 622 | 589 | 560 |
| 13 | 8 | 11 | 8 | 821 | 1282 | 1140 | 1026 | 933 | 855 | 789 | 732 | 683 | 641 | 603 | 570 | 540 | 513 |
| 13 | 8 | 10 | 8 | 746 | 1166 | 1036 | 933 | 848 | 777 | 717 | 666 | 621 | 584 | 549 | 518 | 491 | 466 |
| 13 | 8 | 9 | 8 | 671 | 1049 | 933 | 839 | 764 | 699 | 646 | 600 | 559 | 525 | 494 | 466 | 442 | 420 |

| Motor "A" | Moved seed "B" | Motor fertilizer "C" | Moved fertilizer "D" | Grams / 16 linear meter | Kilograms per hectare (10.000 m ²) for the different spacings between rows | | | | | | | | | | | | |
|-----------|----------------|----------------------|----------------------|-------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | 420 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
| 15 | 8 | 8 | 21 | 262 | 410 | 364 | 328 | 298 | 273 | 252 | 234 | 218 | 205 | 193 | 182 | 173 | 164 |
| 15 | 8 | 8 | 19 | 290 | 453 | 403 | 362 | 329 | 302 | 279 | 259 | 241 | 227 | 213 | 201 | 191 | 181 |
| 15 | 8 | 8 | 17 | 324 | 506 | 450 | 405 | 368 | 338 | 312 | 289 | 270 | 253 | 238 | 225 | 213 | 203 |
| 15 | 8 | 8 | 15 | 367 | 574 | 510 | 459 | 417 | 383 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 230 |
| 15 | 8 | 8 | 13 | 424 | 662 | 589 | 530 | 482 | 441 | 407 | 378 | 353 | 331 | 312 | 294 | 279 | 265 |
| 15 | 8 | 8 | 12 | 459 | 717 | 638 | 574 | 522 | 478 | 441 | 410 | 382 | 359 | 338 | 319 | 302 | 287 |
| 15 | 8 | 8 | 11 | 501 | 783 | 696 | 626 | 569 | 522 | 482 | 447 | 417 | 391 | 368 | 348 | 329 | 313 |
| 15 | 8 | 8 | 10 | 551 | 861 | 765 | 689 | 626 | 574 | 530 | 492 | 458 | 430 | 405 | 383 | 362 | 344 |
| 15 | 8 | 8 | 9 | 612 | 956 | 850 | 765 | 696 | 638 | 589 | 547 | 509 | 478 | 450 | 425 | 403 | 383 |
| 15 | 8 | 8 | 8 | 689 | 1076 | 956 | 861 | 783 | 717 | 662 | 615 | 573 | 538 | 506 | 478 | 453 | 430 |
| 15 | 8 | 21 | 8 | 1808 | 2825 | 2511 | 2260 | 2054 | 1883 | 1783 | 1614 | 1504 | 1412 | 1329 | 1255 | 1189 | 1130 |
| 15 | 8 | 19 | 8 | 1635 | 2556 | 2272 | 2044 | 1859 | 1704 | 1573 | 1460 | 1360 | 1278 | 1203 | 1136 | 1075 | 1022 |
| 15 | 8 | 17 | 8 | 1643 | 2587 | 2032 | 1829 | 1663 | 1524 | 1407 | 1307 | 1218 | 1143 | 1076 | 1016 | 963 | 914 |
| 15 | 8 | 15 | 8 | 1291 | 2018 | 1793 | 1614 | 1467 | 1345 | 1242 | 1153 | 1074 | 1009 | 949 | 897 | 849 | 807 |
| 15 | 8 | 13 | 8 | 1119 | 1749 | 1554 | 1399 | 1272 | 1166 | 1076 | 999 | 931 | 874 | 823 | 777 | 736 | 699 |
| 15 | 8 | 12 | 8 | 1033 | 1614 | 1435 | 1291 | 1174 | 1076 | 993 | 922 | 860 | 807 | 760 | 717 | 680 | 646 |
| 15 | 8 | 11 | 8 | 947 | 1479 | 1315 | 1184 | 1076 | 986 | 910 | 845 | 788 | 740 | 696 | 658 | 623 | 592 |
| 15 | 8 | 10 | 8 | 861 | 1345 | 1196 | 1076 | 978 | 897 | 828 | 769 | 716 | 673 | 633 | 598 | 566 | 538 |
| 15 | 8 | 9 | 8 | 775 | 1211 | 1076 | 968 | 880 | 807 | 745 | 692 | 645 | 605 | 570 | 538 | 510 | 548 |
| 17 | 8 | 8 | 21 | 297 | 465 | 413 | 372 | 338 | 310 | 286 | 266 | 247 | 232 | 219 | 207 | 196 | 186 |
| 17 | 8 | 8 | 19 | 329 | 513 | 456 | 411 | 373 | 342 | 316 | 293 | 273 | 257 | 242 | 228 | 216 | 205 |
| 17 | 8 | 8 | 17 | 367 | 574 | 510 | 459 | 417 | 383 | 353 | 328 | 306 | 287 | 270 | 255 | 242 | 230 |
| 17 | 8 | 8 | 15 | 416 | 650 | 578 | 520 | 473 | 434 | 400 | 372 | 346 | 325 | 306 | 289 | 274 | 260 |
| 17 | 8 | 8 | 13 | 480 | 750 | 667 | 600 | 546 | 500 | 462 | 428 | 400 | 375 | 353 | 333 | 316 | 300 |
| 17 | 8 | 8 | 12 | 520 | 813 | 723 | 650 | 591 | 542 | 500 | 464 | 433 | 406 | 383 | 361 | 342 | 325 |
| 17 | 8 | 8 | 11 | 568 | 887 | 788 | 709 | 644 | 591 | 546 | 507 | 472 | 443 | 417 | 394 | 373 | 355 |
| 17 | 8 | 8 | 10 | 624 | 975 | 867 | 780 | 709 | 650 | 600 | 557 | 519 | 488 | 459 | 434 | 411 | 390 |
| 17 | 8 | 8 | 9 | 693 | 1084 | 963 | 867 | 788 | 723 | 667 | 619 | 577 | 542 | 510 | 482 | 456 | 434 |
| 17 | 8 | 8 | 8 | 780 | 1219 | 1084 | 975 | 887 | 913 | 750 | 697 | 649 | 610 | 574 | 542 | 513 | 488 |
| 17 | 8 | 21 | 8 | 2048 | 3201 | 2845 | 2560 | 2328 | 2134 | 1970 | 1829 | 1704 | 1600 | 1506 | 1422 | 1348 | 1280 |
| 17 | 8 | 19 | 8 | 1853 | 2896 | 2574 | 2317 | 2106 | 1931 | 1782 | 1655 | 1542 | 1448 | 1363 | 1287 | 1219 | 1158 |
| 17 | 8 | 17 | 8 | 1658 | 2591 | 2303 | 2073 | 1884 | 1727 | 1594 | 1481 | 1380 | 1295 | 1219 | 1151 | 1091 | 1036 |
| 17 | 8 | 15 | 8 | 1643 | 2286 | 2032 | 1829 | 1663 | 1524 | 1407 | 1306 | 1217 | 1143 | 1076 | 1016 | 963 | 914 |
| 17 | 8 | 13 | 8 | 1268 | 1981 | 1761 | 1585 | 1441 | 1321 | 1219 | 1132 | 1055 | 991 | 932 | 881 | 834 | 793 |
| 17 | 8 | 12 | 8 | 1170 | 1829 | 1626 | 1463 | 1331 | 1219 | 1125 | 1045 | 974 | 914 | 861 | 813 | 770 | 732 |
| 17 | 8 | 11 | 8 | 1073 | 1676 | 1490 | 1341 | 1219 | 1118 | 1032 | 958 | 893 | 838 | 789 | 745 | 706 | 671 |
| 17 | 8 | 10 | 8 | 975 | 1524 | 1355 | 1219 | 1108 | 1016 | 938 | 871 | 812 | 762 | 717 | 677 | 642 | 610 |
| 17 | 8 | 9 | 8 | 878 | 1372 | 1219 | 1097 | 998 | 914 | 844 | 784 | 730 | 686 | 645 | 610 | 578 | 549 |

FERTILIZER DISTRIBUTION TABLE

FERTILIZER DISTRIBUTION

PRATICAL CALCULATION FOR FERTILIZER DISTIBUTION

- For fertilizer calculation proceed as follows:
 - Establish the spacing between rows and the amount of fertilizer to be distributed per Ha.
 - Example: A PLB with spacing of 600 mm, to distribute 500 kg of fertilizer per Ha, apply the formula bellow.

Formula:

$$X = \frac{E \times Q}{A} \times D$$

Solve:

$$X = \frac{600 \times 500}{10.000} \times 16$$

$$X = 30 \times 16$$

Formula data:

- E* = Spacing between rows (mm)
- Q* = Amount of fertilizer to be distributed
- A* = Area to be fertilized (m²)
- D* = Distance of 16m for test (10 turns of the wheel)
- D* = Grams of fertilizer in 16m

$$X = 480 \text{ grams of 16 m/row}$$

- If the calculation was done using Ha, divide it by 10.000 m².
- If the calculation was done using Aa, divide it by 24.200 m².
- Each wheel lap is equal to 1,60 m, so 10 laps are equal to 16 m.

TEST TO CHECK THE AMOUNT OF FERTILIZER AND SEED DISTRIBUTED

- For higher precision during the fertilizer and seed distribution check the amount to be distributed on the plant site, because for each soil type there is a condition.
- Mark the distance for test. From the table, we use as example 16 rows meters out of the test areas to fill the fertilizer distributors and the seeds distributors discs.
- Close the out lets and put the recipients at the fertilizer exits. Go through the marked area with the tractor, always keeping the same working speed.
- After going through the marked distance, remove the fertilizer recipient and weight it, comparing the figures with table (table of fertilizer) second column (grams per rows in 16 meters). Remove the closing from the seed conduit and collect them to count. If necessary run new test changing the gears.

ADJUSTMENT OF THE ROW MARKER

- To adjust the row Marker proceed as follows:
 - Determine the spacing between the rows;
 - The number of rows to be used by the planter; and
 - The distance between the tractors front tyres (center).

- Use the formula below:

- Example: For a 5 rows planting process using the planter, 0,60 m and the distance between the tires of the tractor the 1,43 m; determine.

Formula:

$$D = \frac{E \times (N+1) - B}{2}$$

Solve:

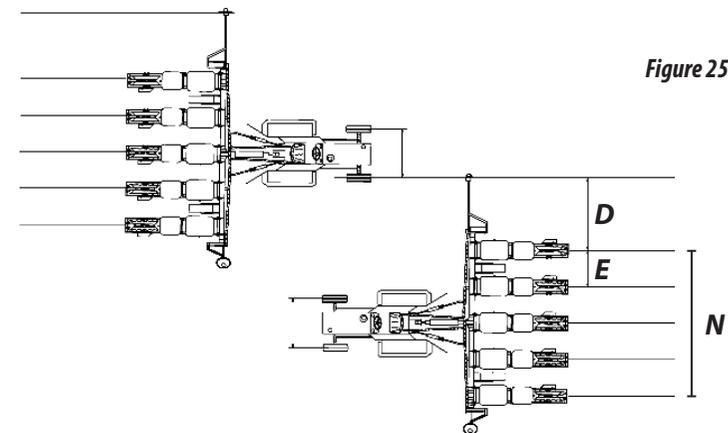
$$D = \frac{0,60 \times 6 - 1,43}{2}$$

$$D = 1,09 \text{ metros}$$

Formula data:

- E* = Spacing between rows (mm)
- N* = Number of rows
- B* = Distance between front tyres
- D* = Distance of the row marker

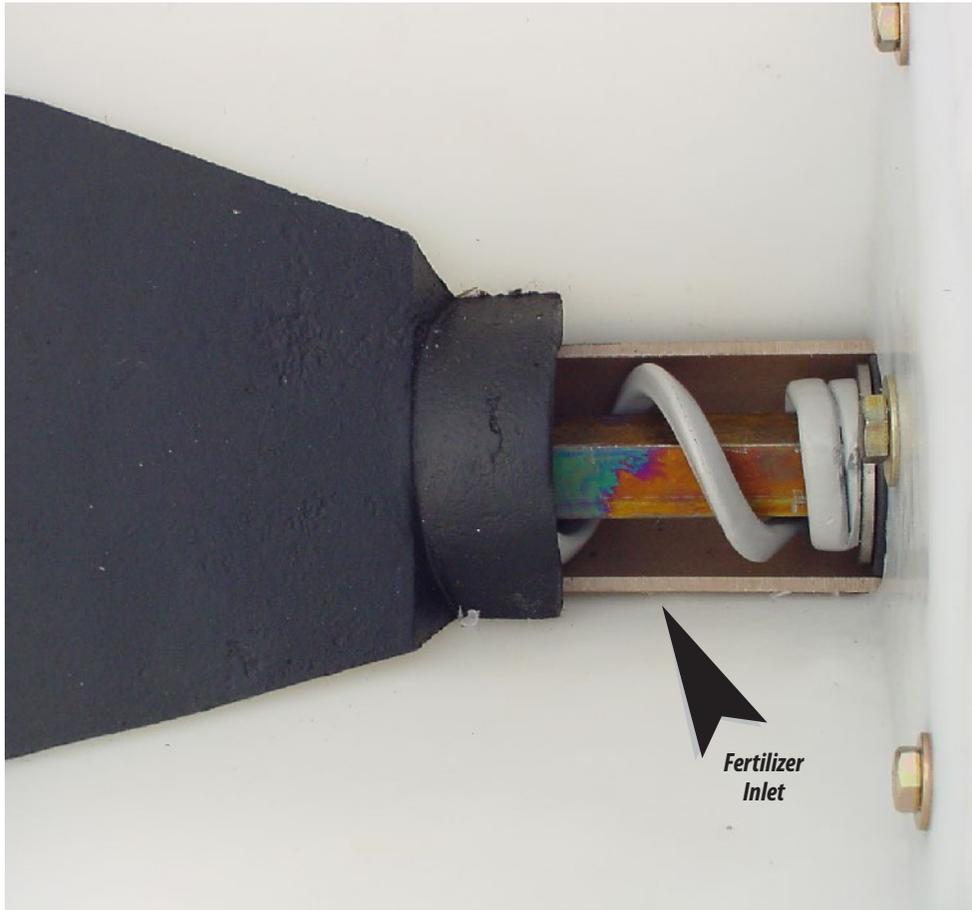
- Distance "D" is given by the 1st. Pass of the planting process. FIGURE 25.



FERTILIZER DISTRIBUTION SYSTEM

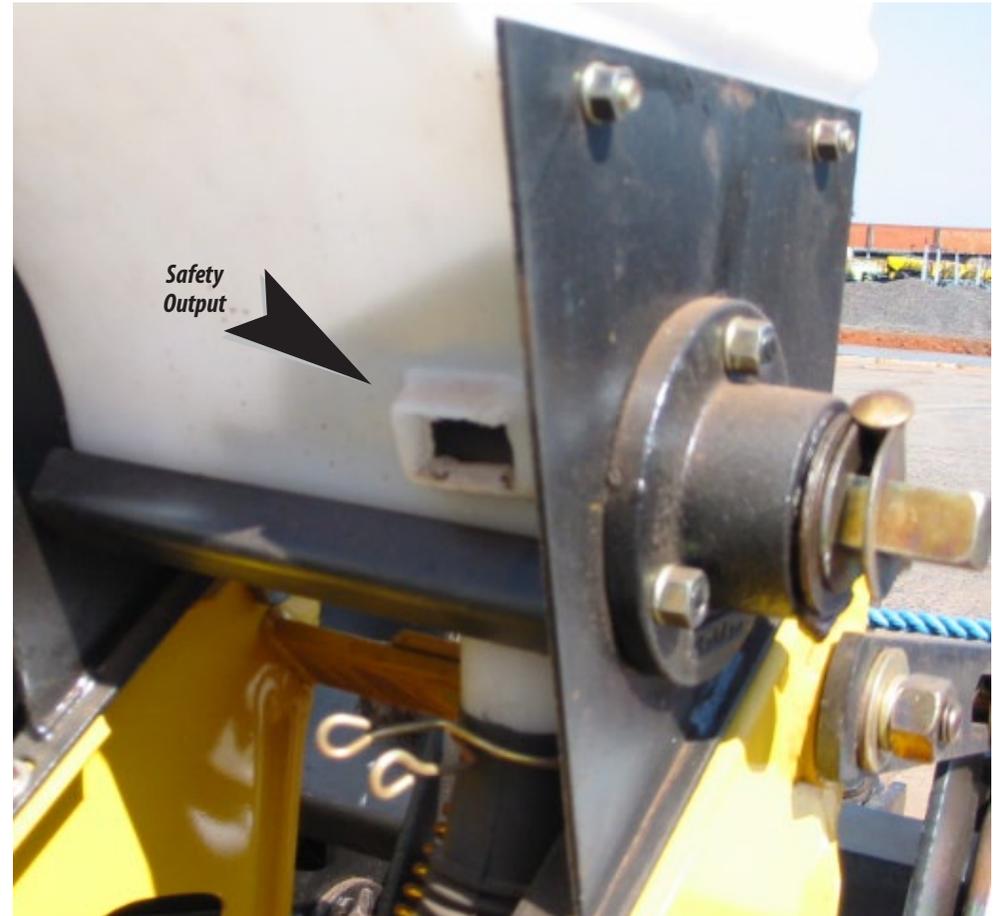
01 - The fertilizer distribution system is composed by an helical floating spring fixed to the square shaft. This system permits that the fertilizer runs through the channel until it reaches the outlet. This system also eliminates any kind of internal support.

Figure 26



01 - Each fertilizer hopper is supplied with a safety exit device. In case that any object blocks the outlet or even the tube, the fertilizer will start coming out through the safety device. In this case, we recommend to stop to work and clean the outlet completely until the system is normalized.

Figure 27



LUBRICATION

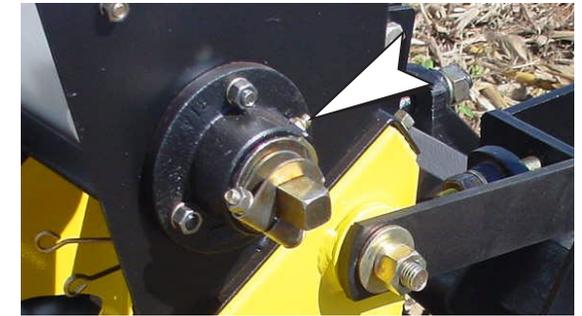
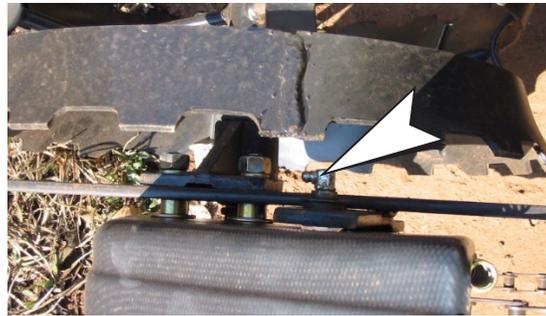
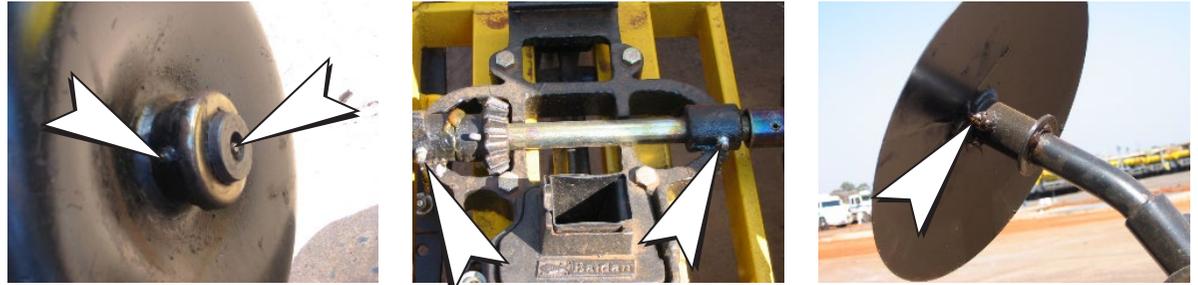
- 01 - Lubrication is very important for the efficiency of the planting operation and also the life time of the planter.
- 02 - Lubricate all grease nipples before you start to work with the planter. Also notice the lubrication periods for each nipple (pages 32 and 33).

GREASE TYPES TABLE AND EQUIVALENTS

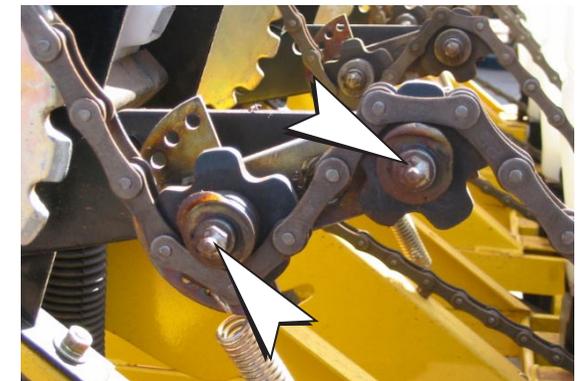
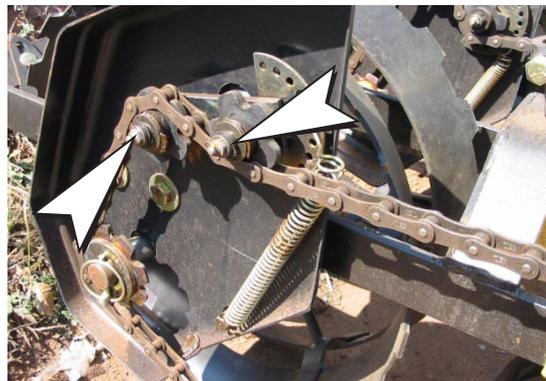
| SUPPLIER | RECOMMENDED GREASE TYPE |
|-----------|--|
| Petrobrás | Lubrax GMA 2 |
| Atlantic | Litholine MP 2 |
| Ipiranga | Super Graxa Ipiranga Ipiranga Super Graxa 2 Ipixflex 2 |
| Castrol | LM 2 |
| Mobil | Mobilgrease MP 77 |
| Texaco | Marfak 2 Agrotex 2 |
| Shell | Retinax A Alvania EP 2 |
| Esso | Multipurpose grease H Litholine MP 2 |
| Bardahl | Maxlub APG 2 EP |

Table 21

LUBRICATE AT EVERY 10 WORKING HOURS



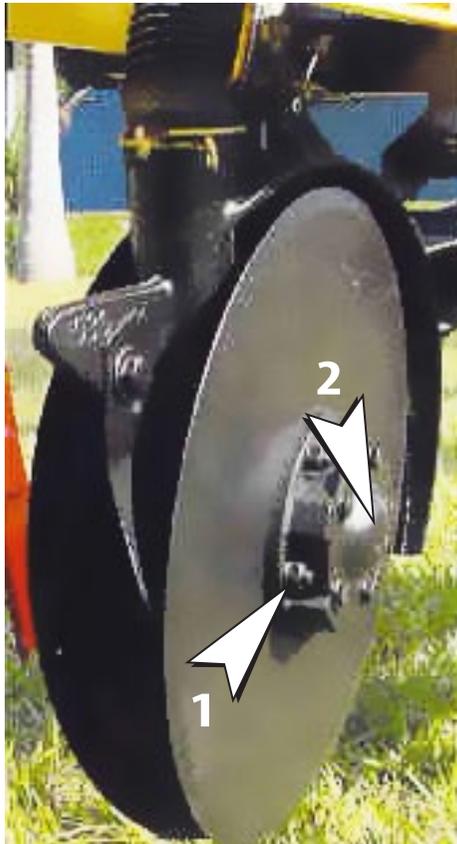
CHAIN STRETCHER



* You can also use other equivalent types of grease that are not specified on this table. (see manufacturers specifications)

LUBRICATE AT EVERY 200 WORKING HOURS

- We recommend you lubricate the hubs of the double discs at every 200 working hours and also whenever you finish the planting season. Proceed as follows :
 - 01 - Loosen bolts (1) of cover (2);
 - 02 - Check the bearings and replace if necessary (3);
 - 03 - Insert new grease into the cover (2);
 - 04 - Place cover and retighten bolts (1).



LUBRICATION

MAINTENANCE

OPERATIONAL MAINTENANCE

| PROBLEM | CAUSES | SOLUTIONS |
|--|---|--|
| Fertilizer starts dropping from the security outlets located on the hoppers. | Hoses or distribution springs should be blocked with plastic from the bags or any other object. | Clean the complete delivery system. (hoses and springs) |
| Fertilizer hub does not turn. | Spring spiral should be blocked with wet fertilizer. | Clear the outlets and replace the hoppers with dry fertilizer. |
| Row unit are planting at different depths. | Different pressures on the springs. | Ajust all planting rows with the same pressure. |
| The furrow is too wide. | Too much speed or the soil is too wet. | Reduce working speed and wait for the soil to dry out. |
| Seed breakage | High working speed. | Reduce working speed. |
| | Incorrect plate thickness. | Find the correct plate for the seed that will be used. |
| | Plate is placed incorrect. Wrong plate for the seed size/form. | Place the plate corectly, according the instruction manual. Observe : THIS SIDE DOWN |
| | Using wet seeds | Always use dry seeds. |
| Tractor is lifting the front with the weight of the planter. | Front weight are not being used. | Add front weight to the tractor |
| Planter is moving sideways during planting operation in declined surfaces. | Hitch arms of the tractor are working loose. | Tighten the tractors hitch arms in order to prevent lateral movement. |



FERTILIZER SYSTEM

- 01 - Remove all fertilizer in the hoppers before machine storage. The hoppers can be cleaned as follows:
- Remove lock (1), loosen nuts (2) and pull hub with sprocket and shaft (3).
 - Now you can clean the hopper and all other components. Assemble the unit, noticing the correct position of the parts. Failure on the assembling of any component can compromise fertilizer distribution.
- 02 - Before the storage of the planter, make sure it is completely clean. Replace all damaged or warred component. Keep unit out of rain and sun conditions.

IMPORTANT | While assembling the distribution shaft (3) make sure it is turning free, even when the fertilizer is in the hopper.

SEED SYSTEM

- 01 - Clean all seed hoppers, distribution system and plates on daily basis. This is very important in order to maintain a precise seed distribution.

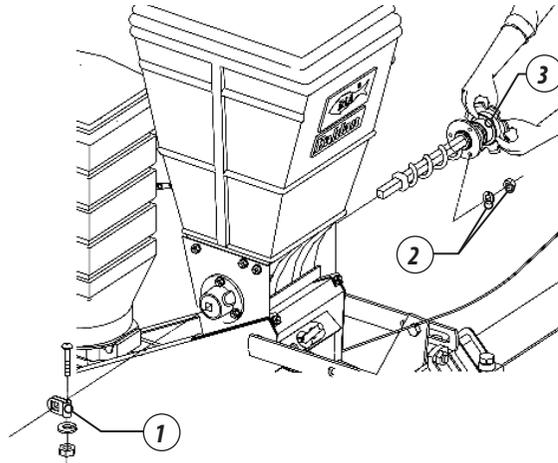


Figure 31

IMPORTANT | Whenever using chemicals for seed treatment, we recommend you clean the system twice a day, or at every hopper filling procedure.

GENERAL CLEANING

- 01 - Remove the transmission chains and keep them into oil until the next planting season.
- 02 - Lubricate the planter according to this instruction manual.
- 03 - Check all component and replace all damaged and warred part. Use only Baldan original parts.
- 04 - Store the planter under covered, keeping the unit away from rain and sun.
- 05 - We recommend you wash the unit before starting the next planting season.

IMPORTANT | Never use chemicals detergents to wash the planter. It can damage the paint.

OPERATION

PREPARING THE TRACTOR FOR PLANTING OPERATION

- 01 - In order to plant without problems and interruptions, revise the tractor completely including engine and hydraulic system.
- 02 - Also check the pressure of the tyres and calibrate according to manufactures recommendations. If necessary, add weight to the tyres. (water)
- 03 - Quando trabalhar com máquinas hidráulicas como a PLB Directa, verificar se, com carga média até máxima (depósitos de adubo e semente da metade para cheio), o trator não apresenta tendência de empinamento quando levantar a mesma. Caso isso ocorra, é necessário lastrear a frente do mesmo com carga em torno de 120kg a 150kg. Essa necessidade varia de acordo com modelo e marca do trator utilizado.
- 04 - Adjust the tractor gauge as follows:

| Tractor type | | Distance between front tyres |
|--------------|-------|---|
| Single | 4 x 2 | 2 x distance of the row spacing of the planter. (center to center) |
| Single | 4 x 4 | 2 x the distance of the row spacing of the planter |
| Dual | 4 x 2 | 4 x the distance of the row placing of the planter. |

Table 23

- 05 - In case you cannot achieve the exact distance, set it the closest to can get.

RESUME OF ADJUSTMENT AND OPERATION

- 01-Lubrication;
- 02-Hitching to the tractor;
- 03-Row markers;
- 04-Spacing between rows;
- 05-Seed calibration and distribution;
- 06-Fertilizer calibration and distribution;
- 07-Plactical test for seed and fertilizer calibration;
- 08-Position and depth of fertilizer in the soil;
- 09-Furrow opening and depth of seeds;
- 10-Cutting coulter (No-Till);
- 11-Covering and compactation;
- 12-Operations - Important tips.

CERTIFICATE OF GUARANTEE

BALDAN IMPLEMENTOS AGRÍCOLAS S/A, guarantee the normal operation of the product for a 6 (six) months period dated from the dealers's bill of sale to the first final customer.

During this period, **Baldan** compromise itself to repair the material or manufacturing defects, but the labour, the freight and other expenses are the dealer's responsibility.

At the guarantee period, all the request and replacement of any defective part must be made to the dealer of the region, which will send the defective part for analysis at **Baldan**.

When this procedure won't be possible and the dealer couldn't have the ability to solve the problem, the dealer can ask for **Baldan's Technical Assistance** using the specific form delivered to them.

After the analysis of the items replaced by **Baldan Technical Assistance** and if we conclude that it wasn't a guarantee problem, then the dealer will be the responsible for all costs related to the replacement; as well as material expenses, travel including accommodation and meals, also the accessories, lubricant used or any other expenses after having called the Technical Assistance. And, withal, the company **Baldan** is authorized to issue the billing in name of the respective reseller.

Any repair made to the product which is in warranty period by the dealer, will only be authorized by **Baldan** after budget previous presentation describing pieces and labour to be accomplished.

It is out of this term the product which has repairs or modifications not made by dealers from **Baldan's network**, as well as pieces applications or not authentic components to the product by the user.

This certificate of guarantee will become invalid when notice that the damage or defect is the result of incorrect use of the product, of instructions non-observance or operator's inexperience.

It's stipulated that this guarantee don't cover tires, polyethylene deposits, universal joints, hydraulic components, etc, which equipments are guarantee by their manufacturers.

The material or manufacture defects, object of this certificate of guarantee, will not be, by any hypothesis, reason for cancellation of the contract of sale, or indemnity of any kind.

For a warranty solicitation to the distributor, you have to proceed in the following manner:

Send the technical informe detailed telling the problem (technical assistance request form to the client), you can find it send us an email to **aftersales@baldan.com.br** or accessing our website **www.baldan.com.br**. If it's possible send films and photos from the requested spare parts.

To point at the form: serial number, manufacture year, etc, that is, all information asked at the form. The damage spare parts should be available for analysis of the the after sales department in a future visit (in case of requested).

Baldan keeps the right of changing and or improve the technical characteristics of its products, without notice and without the obligation of act like this way with its previously manufactured products.

CERTIFICATE OF INSPECTION AND DELIVERY

- **SERVICE BEFORE THE DELIVERY:** This equipment was very carefully prepared by the dealer's organization, inspected in all its parts in agreement with the manufacture's prescription.
- **DELIVERY SERVICE:** The user was informed about the current guarantee terms and instructed about maintenance care and utilization.
- I confirm that I was informed about the current guarantee terms and instructed about the correct utilization and maintenance of this product.

Product: _____

Serial Number: _____

Date: _____ Bill of sale: _____

Store: _____ City: _____

State: _____ Zip code: _____

Owner: _____ Phone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Date of sale: _____

Signature / Store's stamp: _____

1st page - Owner



CERTIFICATE OF INSPECTION AND DELIVERY

- **SERVICE BEFORE THE DELIVERY:** This equipment was very carefully prepared by the dealer's organization, inspected in all its parts in agreement with the manufacture's prescription.
- **DELIVERY SERVICE:** The user was informed about the current guarantee terms and instructed about maintenance care and utilization.
- I confirm that I was informed about the current guarantee terms and instructed about the correct utilization and maintenance of this product.

Product: _____

Serial Number: _____

Date: _____ Bill of sale: _____

Store: _____ City: _____

State: _____ Zip code: _____

Owner: _____ Phone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Date of sale: _____

Signature / Store's stamp: _____

2nd page - Store

CERTIFICATE OF INSPECTION AND DELIVERY

- **SERVICE BEFORE THE DELIVERY:** This equipment was very carefully prepared by the dealer's organization, inspected in all its parts in agreement with the manufacture's prescription.
- **DELIVERY SERVICE:** The user was informed about the current guarantee terms and instructed about maintenance care and utilization.
- I confirm that I was informed about the current guarantee terms and instructed about the correct utilization and maintenance of this product.

Product: _____

Serial Number: _____

Date: _____ Bill of sale: _____

Store: _____ City: _____

State: _____ Zip code: _____

Owner: _____ Phone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Date of sale: _____

Signature / Store's stamp: _____

3rd page - Manufacturer



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