



## OPERATOR'S MANUAL AND PARTS CATALOGUE

**54000 No-till Drill**



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## *Introduction*

Read this manual carefully in order to know how to operate and maintain your seed drill appropriately. Any negligence on these two functions could result in injuries on the people involved or damage on the machine.

This manual is an essential component of the machine and should always be kept in it, even in case of resaling.

Measurements in this publication are in metric system.

### **IMPORTANT:**

-The company will not be responsible for machine damage caused due to the use of spare parts or attachments that are not original ones.

-The company keeps the right to include changes on its products without prior notice, and will not be forced to perform such changes on this manual nor on previously manufactured products.

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**Identification:**

**Safety symbol**



The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken.

When you see this symbol, whether in this manual or in your seeding equipment, be alert and follow the warning and safe operation instructions recommended.

**Signal words:**

**DANGER**

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**WARNING**

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

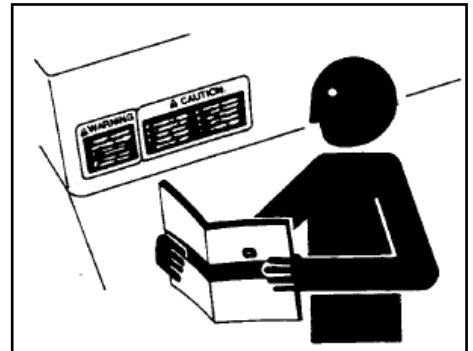
**CAUTION**

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

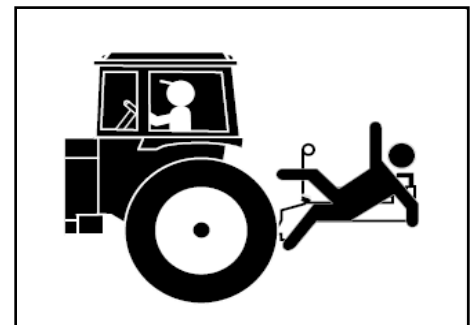
**Follow the safety instructions:**

Thoroughly read all the safety messages in this manual and the safety decals on the machine. Follow the recommended cautions and the advice for a safe operation of the equipment.

Keep all safety decals on the machine clean and legible. Replace all damaged or missing decals. Order new decals from your dealer.

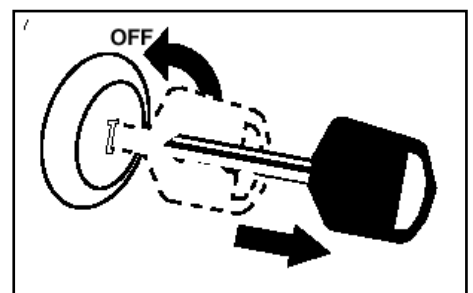


The only person allowed while tractor and machine are working is "the operator"



When stopping the planter for servicing or storage, always stop the engine and remove the key.

\*Store the machine on a level surface, not in a slope. Do not allow kids to play there.

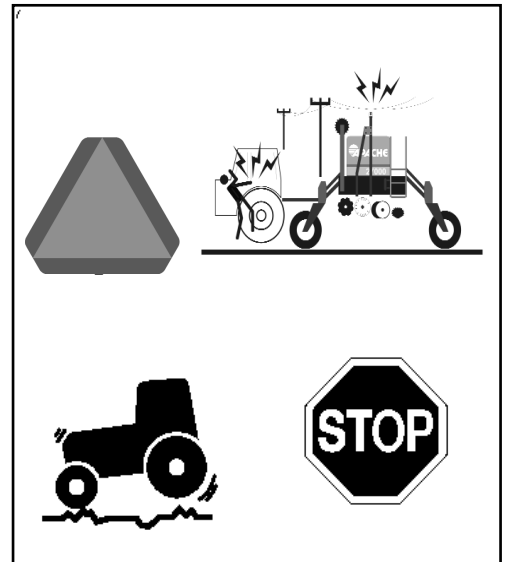


## SAFETY - 02

Transport machine safely. Top speed for this planter is 25 km/h. Never travel at a speed that does not allow adequate control of steering and stopping. Rough terrains require a lower speed

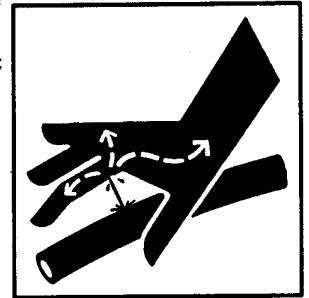
- \* Do not transport the planter with an underweight tractor, unable to offer complete stability when stopping the planter.
- \* Check the safety pin is placed on the hitch lock bolt of the machine/tractor, the markers lock bolt is installed and the transport wheels cylinders are locked.
- \* Do not transport riders on the planter.
- \* Keep clear of overhead powerlines, as serious damage or death could result from their contact..
- \* Carry reflector and/or flags, in case you need to stop the planter on the way.
- \* Respect local traffic law.

**IMPORTANT:** DO NOT TOW ANY ELEMENTS HITCHED TO THE PLANTER AS IT WAS NOT ORIGINALLY DESIGNED TO PULL LOADS. THIS MAY CAUSE DAMAGE ON THE MACHINE.



The hydraulic system operation needs special care. Escaping fluids under pressure can perforate the skin, causing serious injuries.

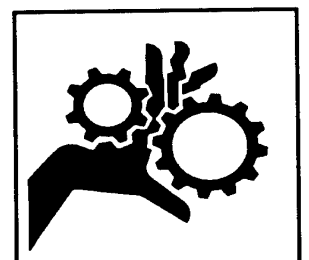
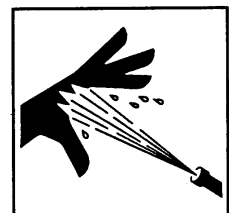
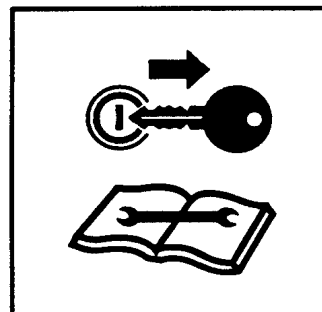
- \* Remove pressure in the system before disconnecting the planter, or any hydraulic hose.
- \* Tighten all connections before giving pressure to the system.
- \* Use a piece of cardboard to localize escaping fluids. Do not use any part of your body.
- \* Bleed the air inside the hydraulic system before operation.
- \* Wear safety glasses and gloves.
- \* In case of an accident, call a doctor immediately.



### Practice safe maintenance:

Read the operator's manual carefully in order to understand procedure before doing work.

- \* Keep area clean and dry.
- \* Lean the row units on the ground, stop the tractor engine and remove the keys before servicing.
- \* Check there is no movement on any part of the machine and remove pressure in the hydraulic system.
- \* Detach the machine from the tractor or disconnect the ground line (-) from the battery before performing any welding on the machine.
- \* Examine the planter. Check all parts are in good conditions and correctly installed. Replace any broken or worn out parts.
- \* Remove all tools or parts which are out of use.
- \* Clean the machine.



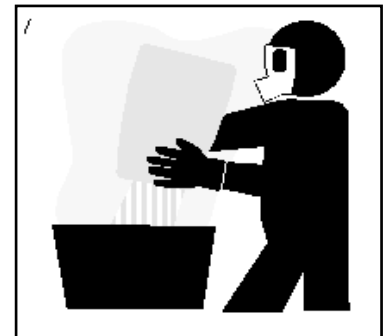
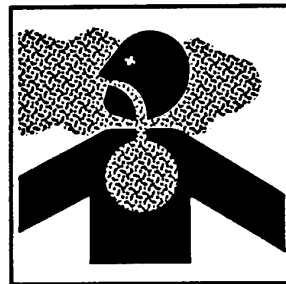
\* Wear appropriate clothing and safety equipment.



Be careful when using chemical products. Fungicide, herbicide, insecticide, pesticide, fertilizer and rat poison can harm your health or the environment if they are not used with care.

\* Wear appropriate clothing.

\* Follow the manufacturer's instructions.



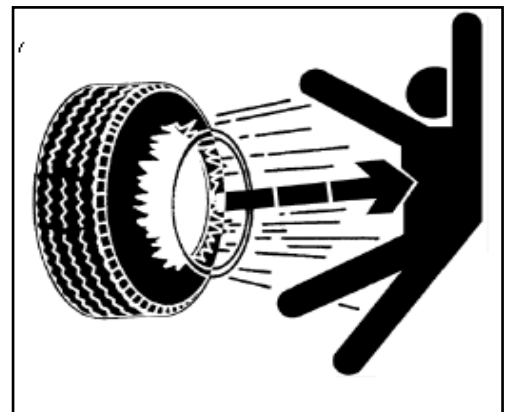
Do not attempt to mount a tire without the proper equipment and experience to perform this job.

\* Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure.

\* Never weld or heat a wheel and tire assembly. The heat can cause an increase in air pressure resulting in a tire explosion. Welding can structurally weaken or deform the wheel.

\* When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage, if available.

\* Check tires for low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts daily.



**ATTENTION:**

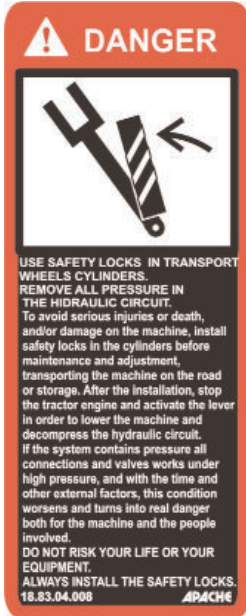
**Always be careful. Read and understand the manual before using the implement. Pay attention to the safety decals on the machine.**



**Safety decals:**

Safety decals on the machine remind the operator about the most relevant and specific situations to pay attention to, for his own safety and the machine care. Therefore, it is very important to keep them in optimum conditions.

**\* For transport:**



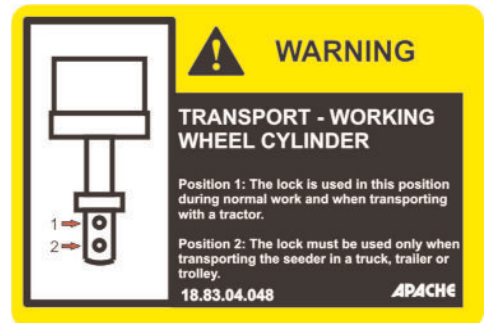
CODE: 18.83.04.008  
Use safety locks in the cylinders not only for safety reasons but also for proper machine care

CODE: 18.83.04.004  
Empty the boxes to transport the machine.



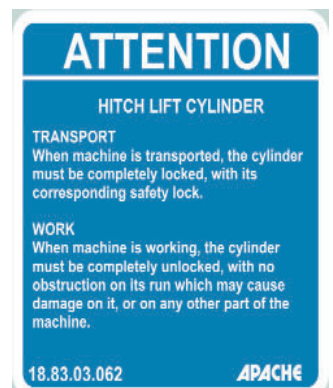
CODE: 18.83.04.012  
Transport at 25km/h (16 mph). Rough terrains require a lower speed.

CODE: 18.83.04.048  
For pull transport, place the bolt in position 1 in the cylinder. To transport on flatbed trailer, place bolt in position 2



CODE: 18.83.04.016  
Be very careful when driving near overhead powerlines, not only during transport but also while seeding.

CODE: 18.83.05.062  
During transport, the hitch cylinder must be completely locked and the safety lock must be placed.



**Safety decals:**

Safety decals on the machine remind the operator about the most relevant and specific situations to pay attention to, for his own safety and the machine care. Therefore, it is very important to keep them in optimum conditions.

**\* For work:**

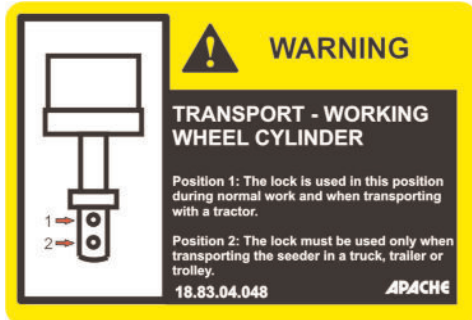
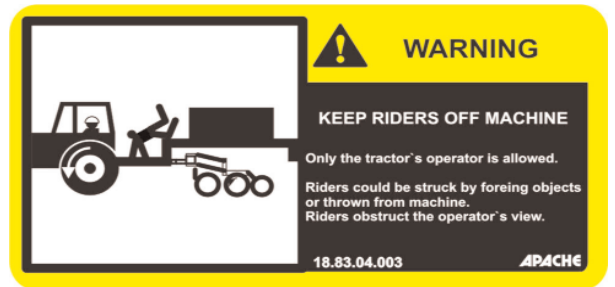


**CODE: 18.83.04.007**  
*Stay away from the markers when they are in motion.*

**CODE: 18.83.04.010**  
 Keep riders off machinery. The operator is the only person allowed in the tractor.

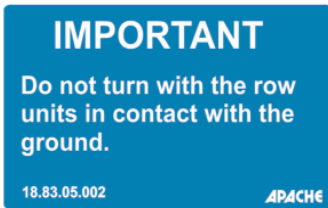


**CODE: 18.83.04.003**

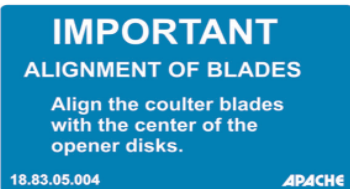


**CODE: 18.83.04.048**  
*When seeding, the cylinder should find the lock bolt in position 1.*

**CODE: 18.83.04.016**  
*Be very careful when driving near overhead powerlines, not only during seeding but also while transport.*

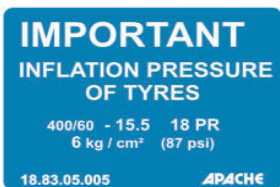


**CODE: 18.83.05.002**  
*To prevent damage on machine*



**CODE: 18.83.05.004**  
*Para que cumplan su labor, las cuchillas deben estar alineadas con los discos plantadores.*

**CODE: 18.83.05.062**  
*When seeding, the hitch cylinder should remain open, with no obstacles on its stroke.*



**CODE: 18.83.05.005**  
*Keep adequate tire pressure as this influences on seed distribution.*



**Safety decals:**

Safety decals on the machine remind the operator about the most relevant and specific situations to pay attention to, for his own safety and the machine care. Therefore, it is very important to keep them in optimum conditions.

**\* For adjustment and/or maintenance:**



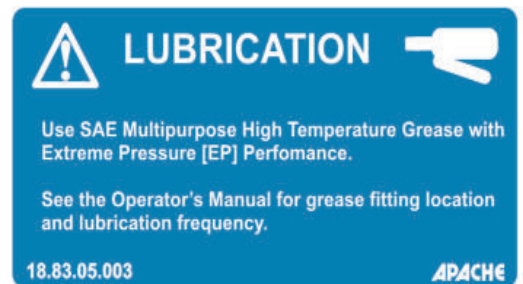
CODE: 18.83.04.006  
*Be careful when performing adjustments near the opener disk blades..*

CODE: 18.83.04.009  
*The hydraulic system operation needs special care. Escaping fluids under pressure can perforate the skin, causing serious injuries.*



CODE: 18.83.01.019  
*Stop all mechanisms before doing any work on the machine -weather adjusting, checking or repairing. Keep away from moving parts.*

CODE: 18.83.05.003  
*Keep all grease fittings lubricated, in order to preserve the lifespan and proper work of the different parts of the machine.*



## PRESENTATION - 01

APACHE 54000 seed drill is a module type machine, designed mainly for small grain seeding, but versatile enough to seed coarse grain and pasture as well.

It enables the seeding of small crops such as: wheat, barley, fescue, ryegrass, lentil and bromus and other coarse grain crops such as: soybean, sunflower, corn, sorghum, beans, peanut, safflower and cotton. The grass seeding box allows the seeding of: birdseed, alfalfa with and without insecticide treatment, white clover, red clover, melilotus and foxtail millet.

"No-till" system. It uses "chevron wheel type" meters for the distribution of small grains and fertilizer. Pasture is distributed with a smaller "chevron wheel type" meter. Coarse grain seeding can be carried out by means of a chevron unit, however, if a more accurate planting method is desired, a plate meter system -wether mechanical or pneumatic- can be coupled to the machine.

The meters contain locks which block either seed or fertilizer flow, in the rows which require blockage, control, etc.

Even though it has several versions, they are made up by 4 basic row spacing: 175mm - 191mm - 210mm and 262.5mm. The other row spacings come up from these ones, being derivative multiples. Example: 175mm version can be turned into 350mm; 210mm version can be turned into 420mm; and so on.

Product is stored in a single box with seed and fertilizer compartments, corresponding approximately 60% and 40% respectively. Fertilization is single and in the seeding row.

The box has a deflector which allows the use of nearly its total capacity with seeds only, thus increasing its autonomy.

Seed rates -wether small or coarse grain- are adjusted by means of a 54 shift oil-bathed gearbox. Fertilizer, however, uses a speed variator which has a 32 point adjustment but with many adjustment options in-between them. The grass seeding box also uses an oil-bathed gearbox, but with 27 shifts.

The row unit for almost all soil types consists of a 17" coulter blade, followed by a 16" double opener disk, with 2 gauge wheels attached which can be: 2 7/8" x 15"; or; 3 1/2" x 15", depending on the row spacing.

This seed drill also features 2 optional devices to place the seed deep into the furrow: the seed firmer or a 1" x 9 1/2" rubber press wheel.

The closing of the furrow is performed by the closing wheels. The optional models are: 1" x 12" rubber, either trapezoidal or round shape. Both can have notched disk attached or not. Other models are: cast-iron closing wheel, 1" x 10" rubber wheel with notched disk attached and/or notched closing disk.

Both the coulter blades and the 2 opener disk lines are mounted on 3 detachable toolbars.

Mainly in the area of Entre Ríos, an optional row unit is used, which is made up by removing the coulter blades and replacing them by the opener disks -each one should be assembled with 15" and 16" double flat disks for this purpose-, placed on an alternating position to perform the breaking-up and furrow opening functions at the same time.

The opener disks have a locking system to block their operation, thus facilitating the row spacing variation task.

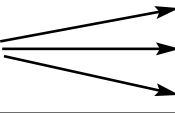
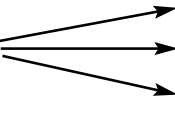
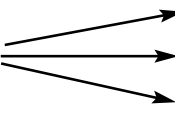
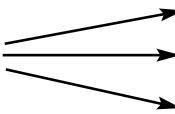
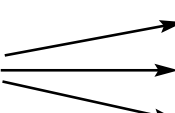
Machine transport and work are carried out on four self aligning wheels per module, with 400/60 tires and specific hitches for each end which are also hydraulically operated working hitches.

The markers are also activated hydraulically. 5, 6 and 7 meter machines have 2 section marker, 2 module machines (10 and 12 meters), have 3 section marker with supporting wheels.

Regarding hydraulics, the machine also has a compensating cylinder which helps to copy uneven ground easily, placed in the rear wheels. Besides, it features 2 feeding nozzles for coupling external equipment. And in 2 module machines, the front cylinders have adjustment valves which enable a uniform lifting and lowering of both units.

**CONFIGURATION - 01**

Following, a chart with all possible configurations of the seed drill:

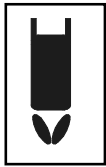
<b>MODULES</b>	<b>ASSEMBLED AT:</b>	<b>TURNS INTO:</b>
<b>1 MODULE 5 METERS</b>	* 19 rows at 262.5mm →	* 9 rows at 525mm
	* 29 rows at 175mm 	* 15 rows at 350mm
		* 9 rows at 525mm
		* 8 rows at 700mm
	* 27 rows at 191mm →	* 14 rows at 382mm
* 25 rows at 210mm →	* 13 rows at 420mm	
<hr/>		
<b>MODULES</b>	<b>ASSEMBLED AT:</b>	<b>TURNS INTO:</b>
<b>1 MODULE 6 METERS</b>	* 23 rows at 262.5mm →	* 11 rows at 525mm
	* 35 rows at 175mm 	* 17 rows at 350mm
		* 11 rows at 525mm
		* 9 rows at 700mm
	* 33 rows at 191mm →	* 16 rows at 382mm
* 29 rows at 210mm →	* 15 rows at 420mm	
<hr/>		
<b>MODULES</b>	<b>ASSEMBLED AT:</b>	<b>TURNS INTO:</b>
<b>1 MODULE 7 METERS</b>	* 27 rows at 262.5mm →	* 13 rows at 525mm
	* 41 rows at 175mm 	* 21 rows at 350mm
		* 13 rows at 525mm
		* 11 rows at 700mm
	* 37 rows at 191mm →	* 18 rows at 382mm
* 33 rows at 210mm →	* 17 rows at 420mm	
<hr/>		
<b>MODULES</b>	<b>ASSEMBLED AT:</b>	<b>TURNS INTO:</b>
<b>2 MODULES 10 METERS</b>	* 39 rows at 262.5mm →	* 19 rows at 525mm
	* 59 rows at 175mm 	* 30 rows at 350mm
		* 19 rows at 525mm
		* 16 rows at 700mm
	* 55 rows at 191mm →	* 28 rows at 382mm
* 21 rows at 210mm →	* 26 rows at 420mm	
<hr/>		
<b>MODULES</b>	<b>ASSEMBLED AT:</b>	<b>TURNS INTO:</b>
<b>2 MODULES 12 METERS</b>	* 47 rows at 262.5mm →	* 23 rows at 525mm
	* 71 rows at 175mm 	* 35 rows at 350mm
		* 23 rows at 525mm
		* 18 rows at 700mm
	* 67 rows at 191mm →	* 33 rows at 382mm
* 59 rows at 210mm →	* 30 rows at 420mm	

**IMPORTANT:** This chart does not mean the machine assembled at eg. 191mm can only be configured at 382mm; it can be configured at any spacing: 525, 210, 175, etc., but the movement will be much more important than when blocking the in-between row units; eg. from 191 to 382.

## CONFIGURATION - 02

Following, the most basic row units assembly diagrams depending on the different row spacing options:

### References:

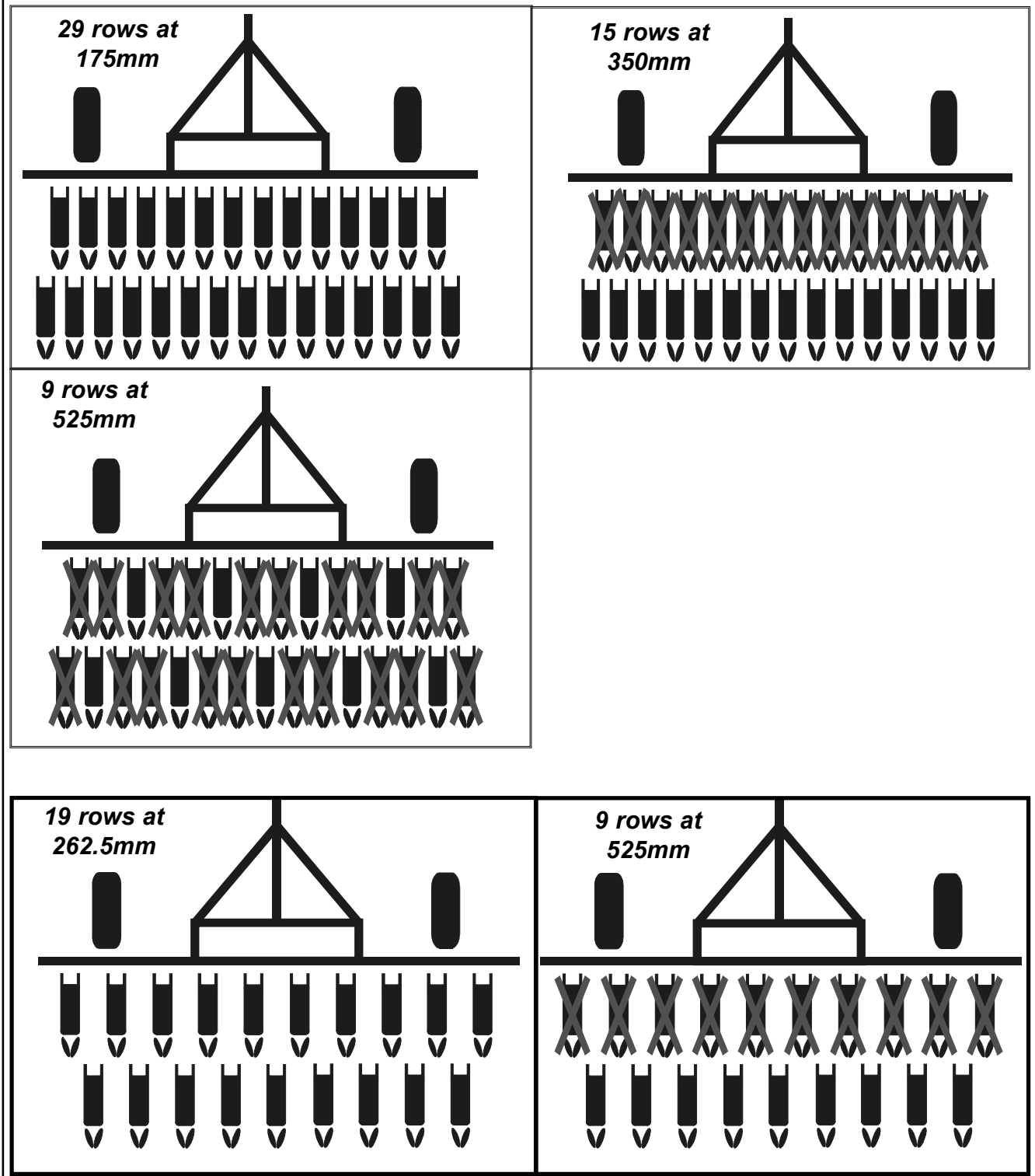


Opener disk



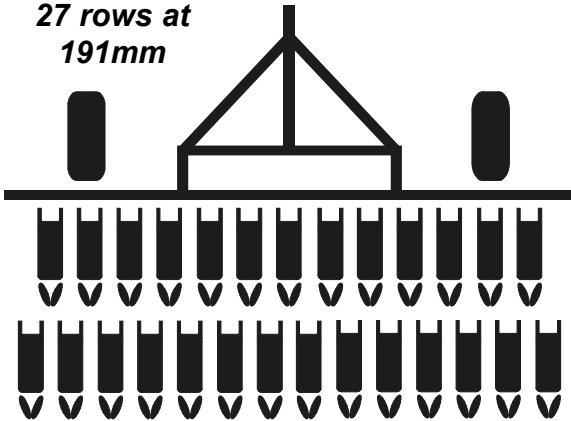
Locked opener disk

### FRAME 5 M

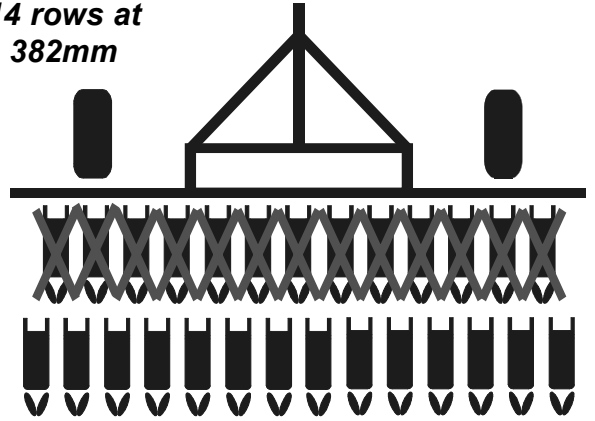


**CONFIGURATION - 03**

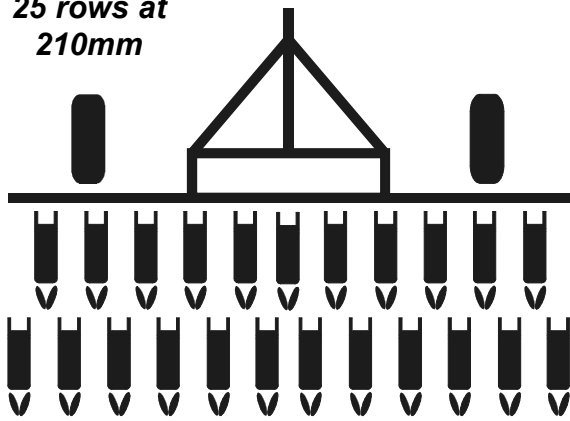
**27 rows at  
191mm**



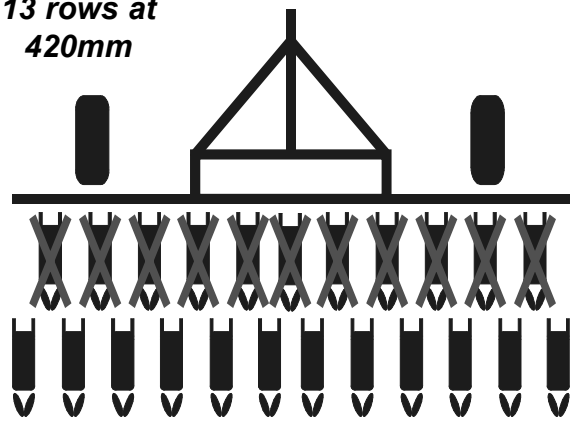
**14 rows at  
382mm**



**25 rows at  
210mm**

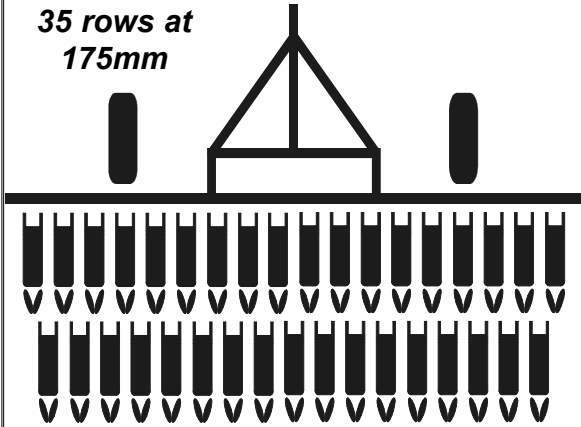


**13 rows at  
420mm**

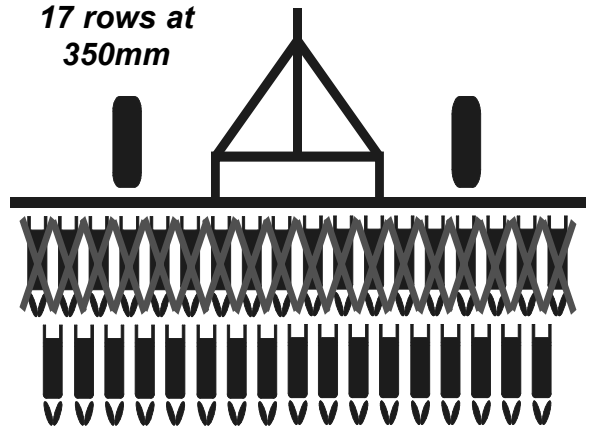


FRAME 6 M

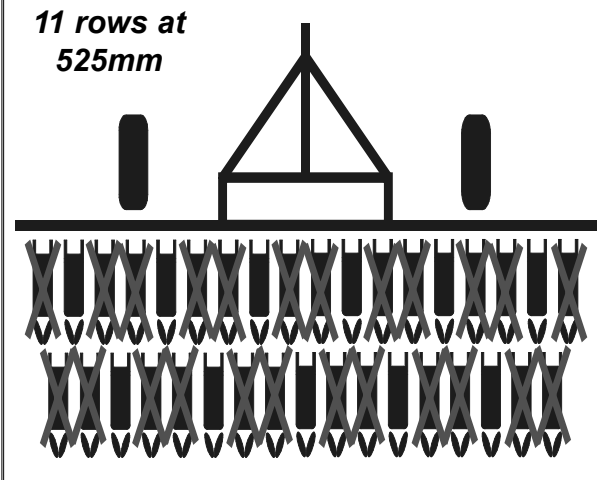
35 rows at  
175mm



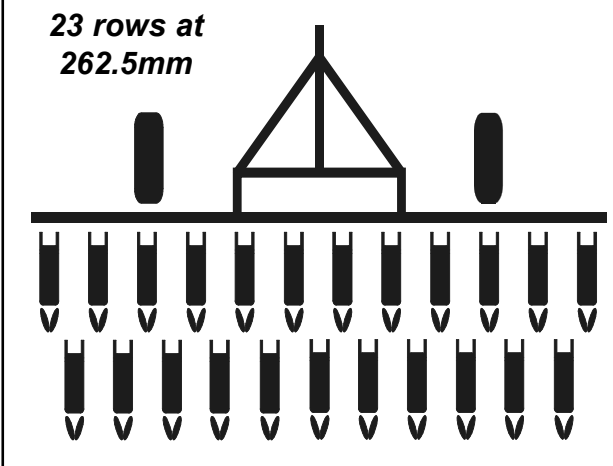
17 rows at  
350mm



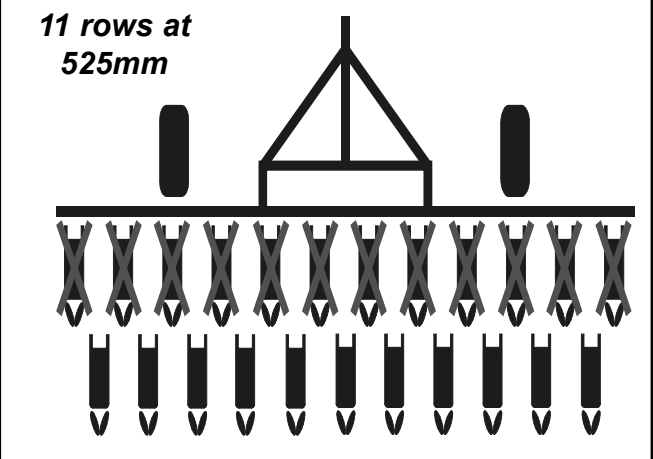
11 rows at  
525mm



23 rows at  
262.5mm



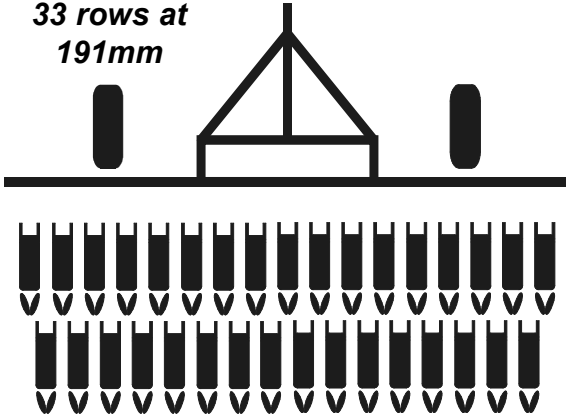
11 rows at  
525mm



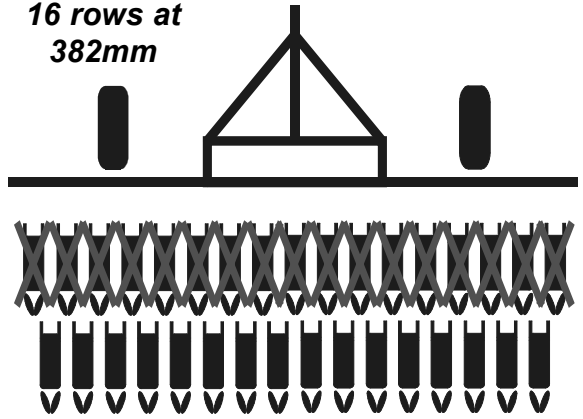


**CONFIGURATION - 05**

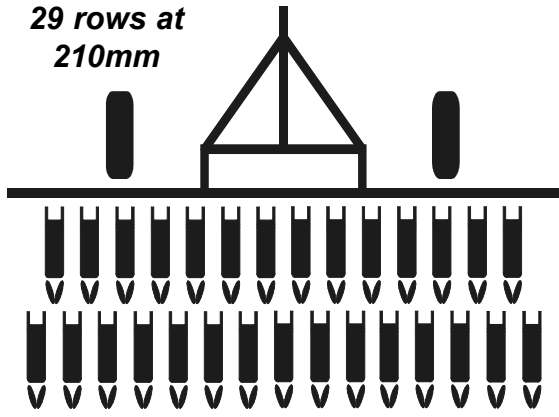
**33 rows at  
191mm**



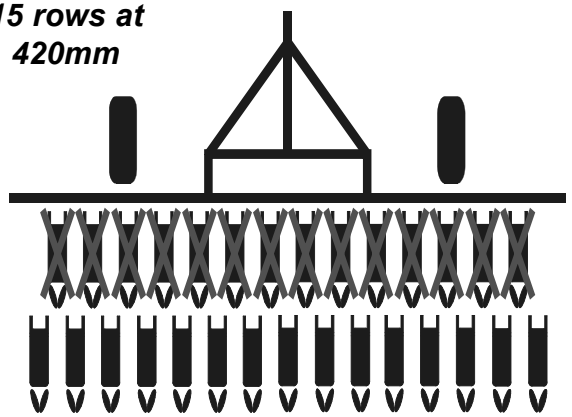
**16 rows at  
382mm**



**29 rows at  
210mm**

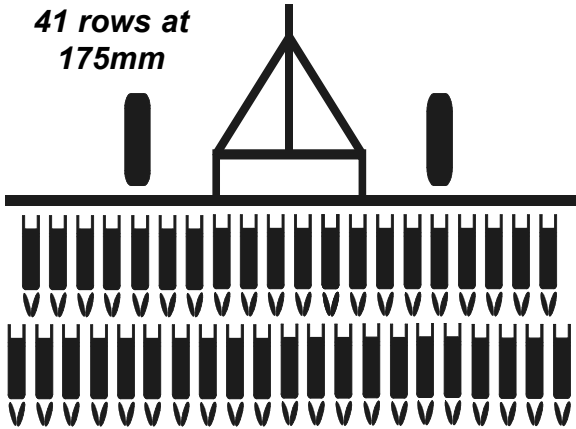


**15 rows at  
420mm**

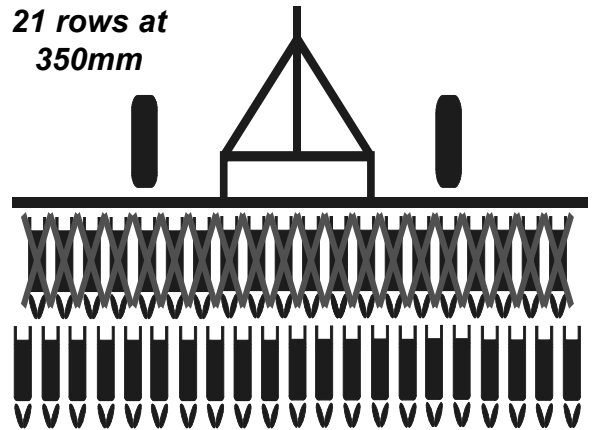


FRAME 7 M

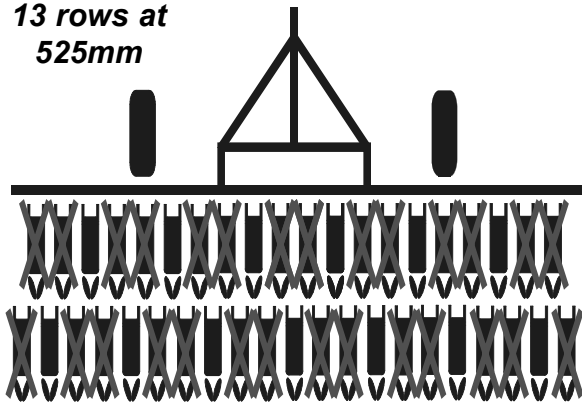
41 rows at  
175mm



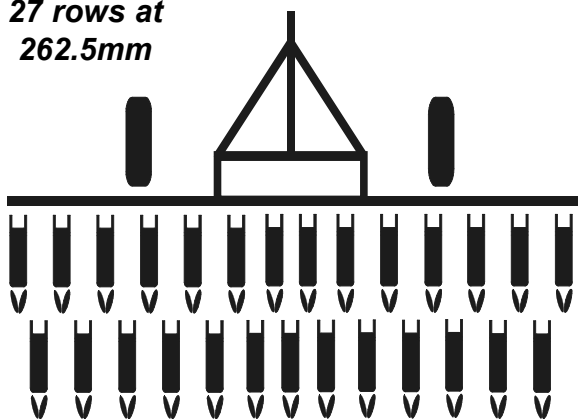
21 rows at  
350mm



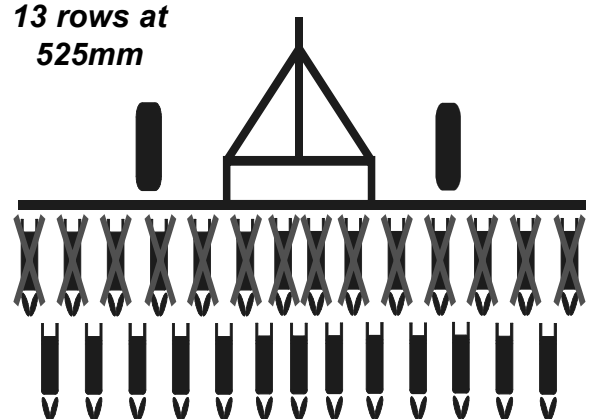
13 rows at  
525mm



27 rows at  
262.5mm

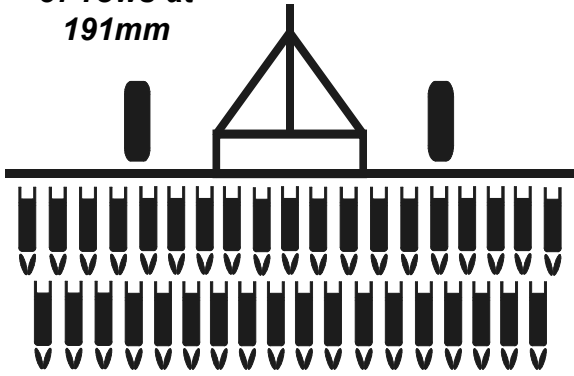


13 rows at  
525mm

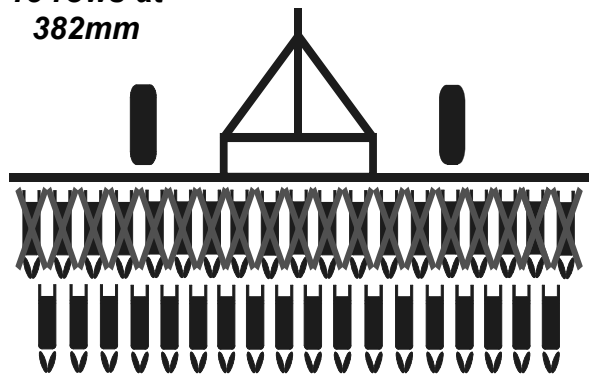


**CONFIGURATION - 07**

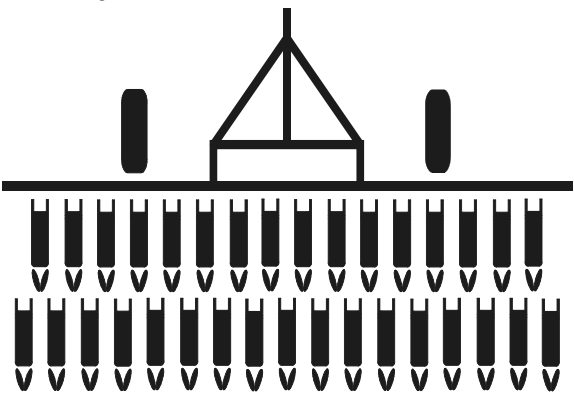
**37 rows at  
191mm**



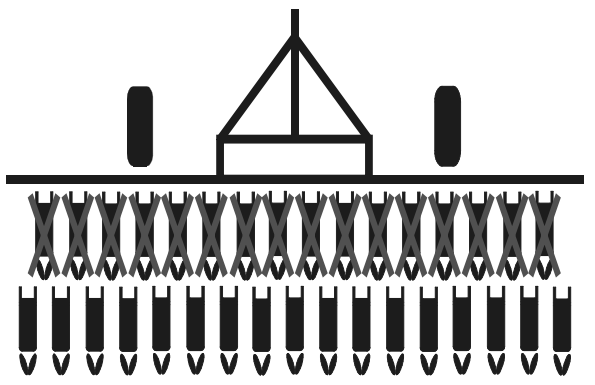
**18 rows at  
382mm**



**33 rows at  
210mm**

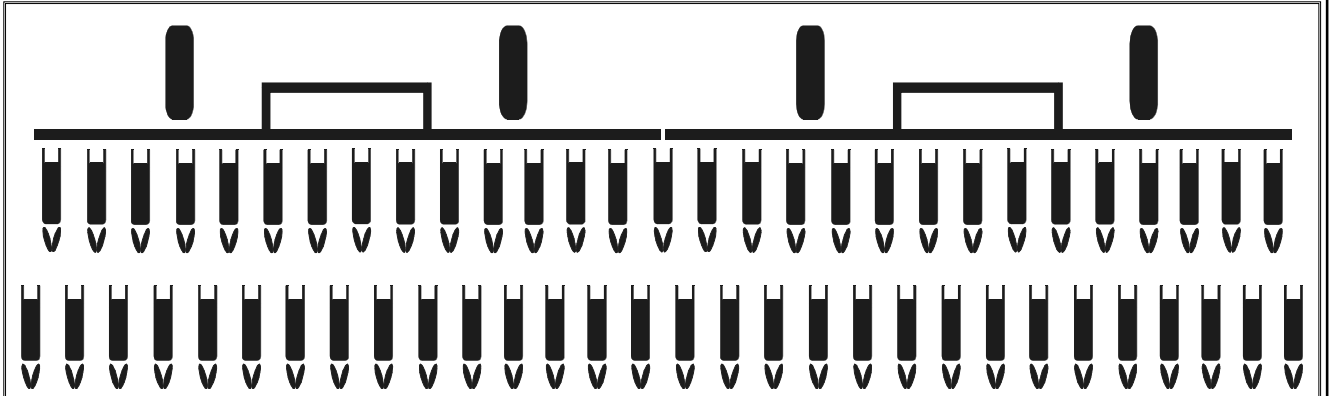


**17 rows at  
420mm**

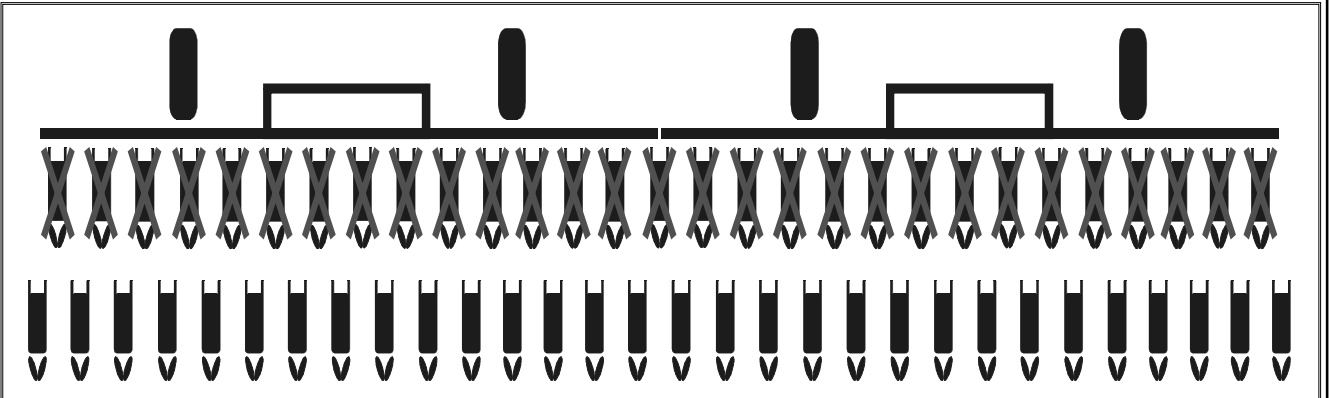


**FRAME 10 M**

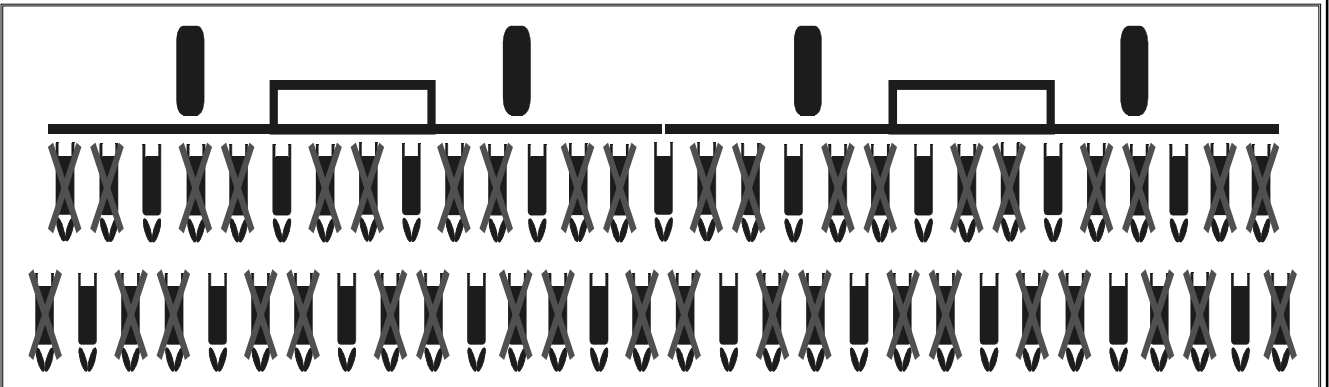
*59 rows at 175mm*



*30 rows at 350mm*

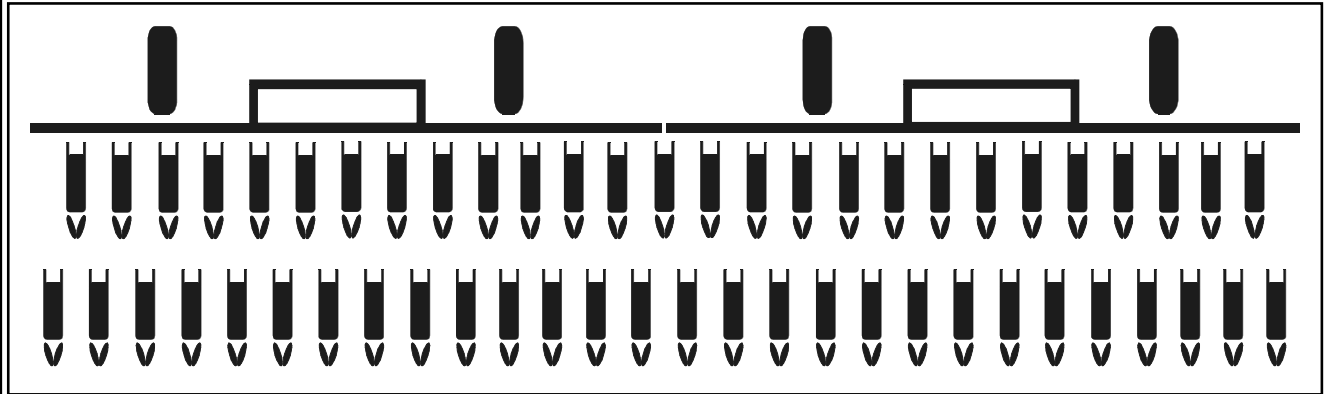


*19 rows at 525mm*

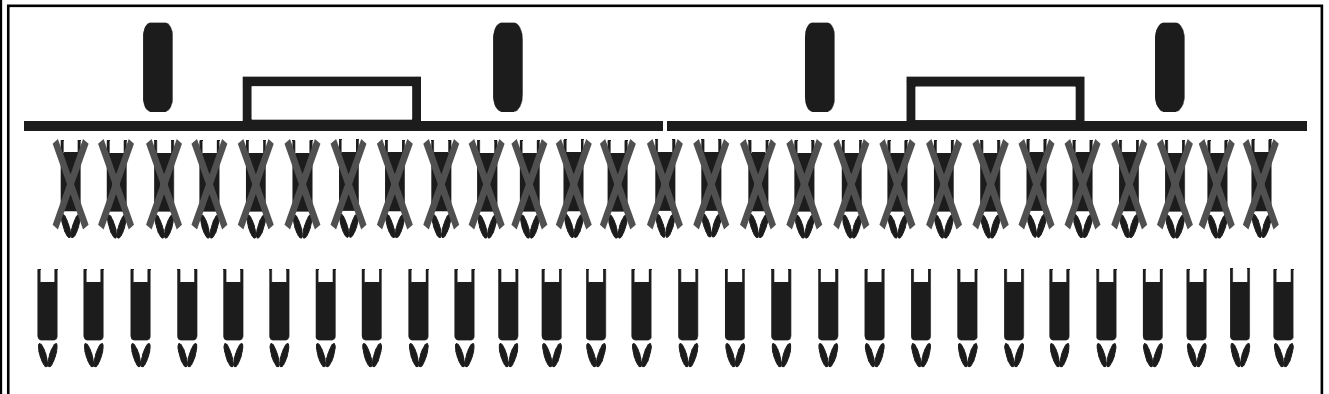


**CONFIGURATION - 09**

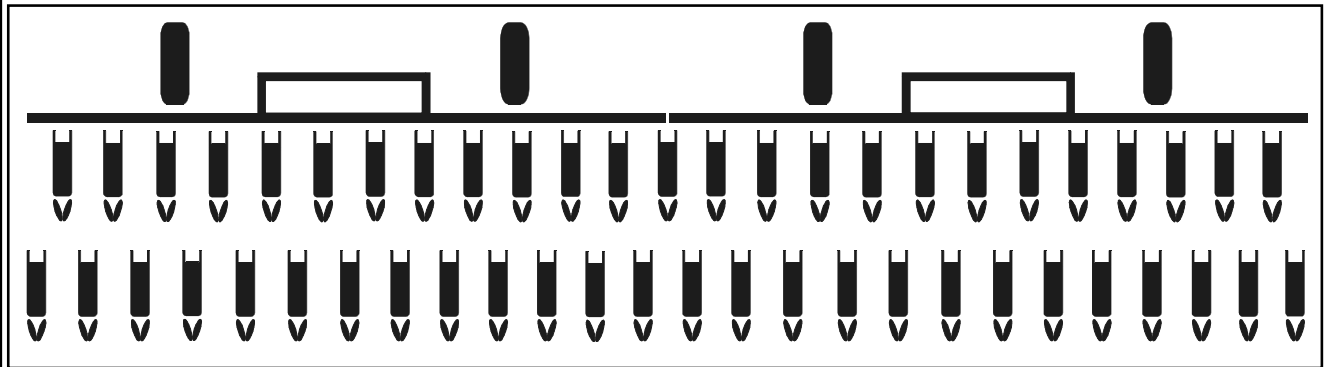
**55 rows at 191mm**



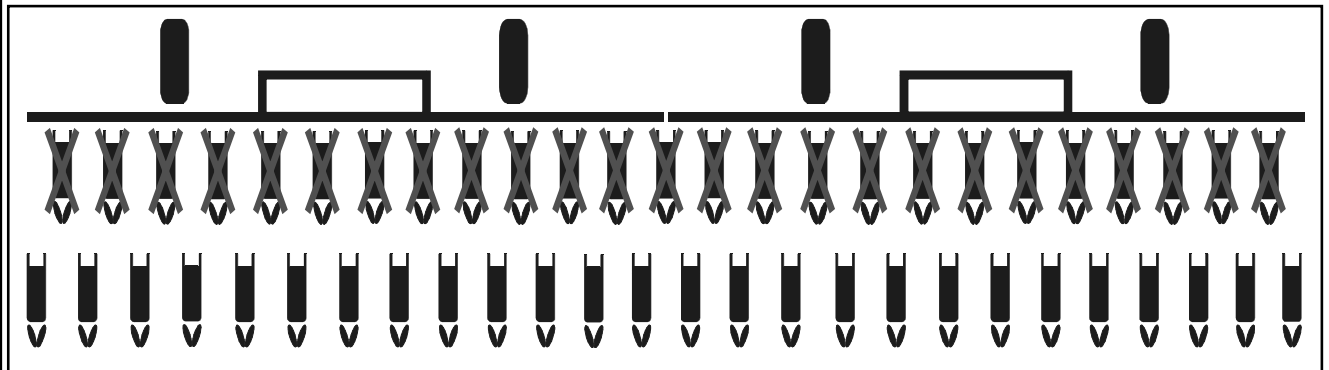
**28 rows at 382mm**



**51 rows at 210mm**

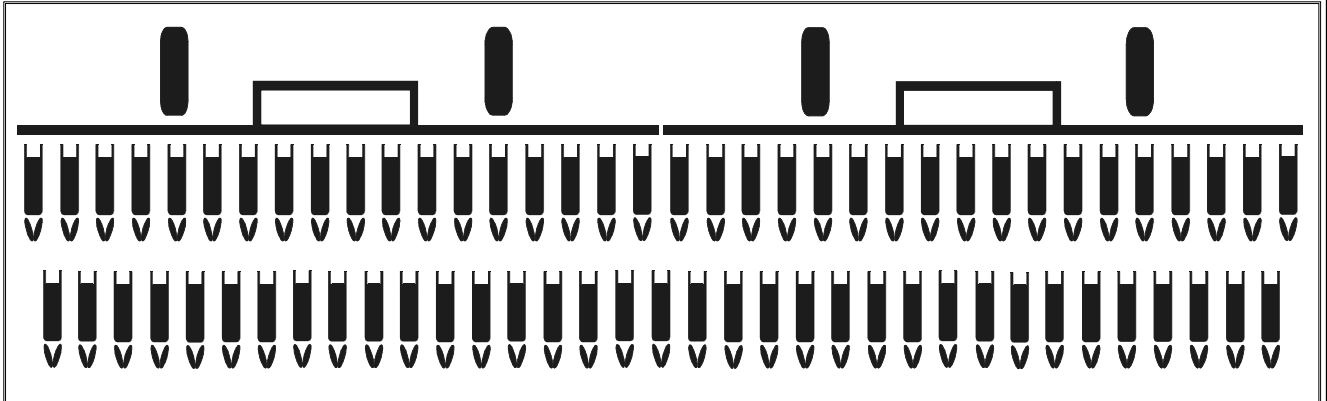


**26 rows at 420mm**

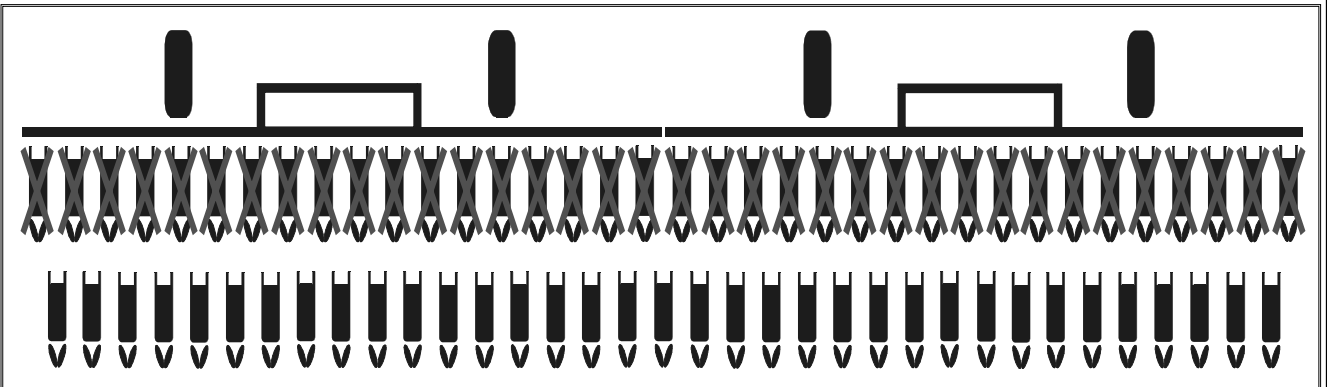


**FRAME 12 M**

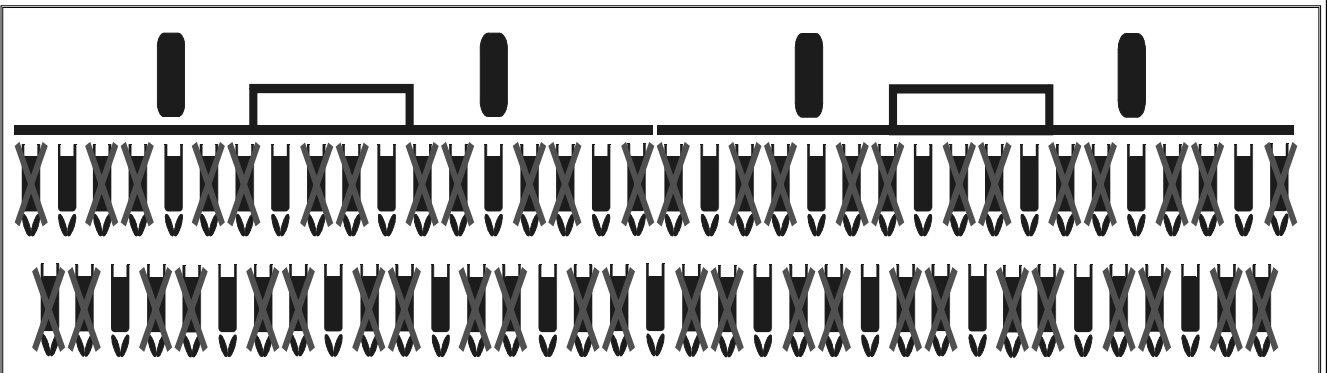
*71 rows at 175mm*



*35 rows at 350mm*

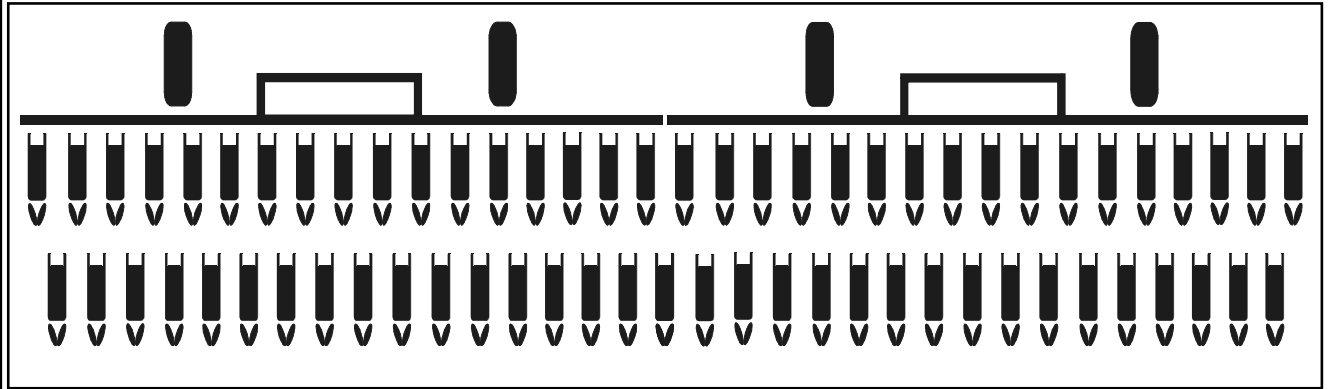


*23 rows at 525mm*

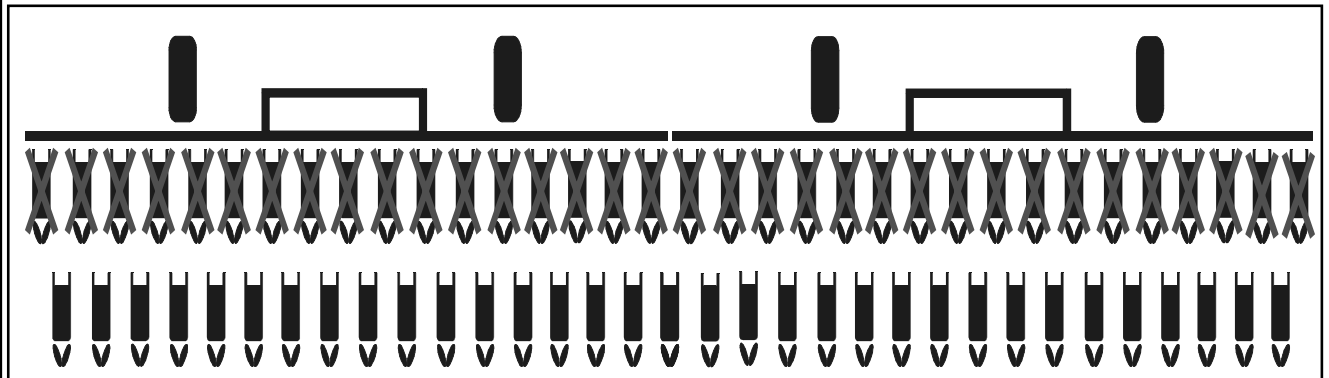


**CONFIGURATION - 11**

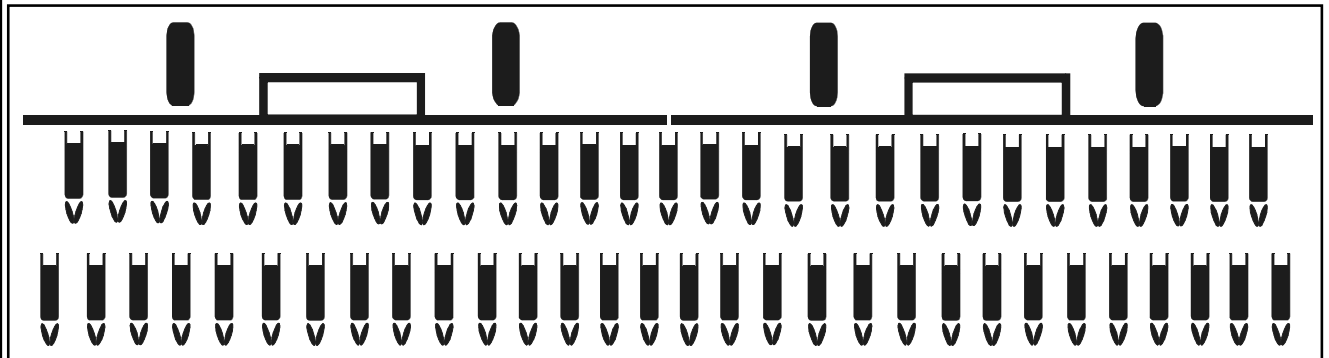
**67 rows at 191mm**



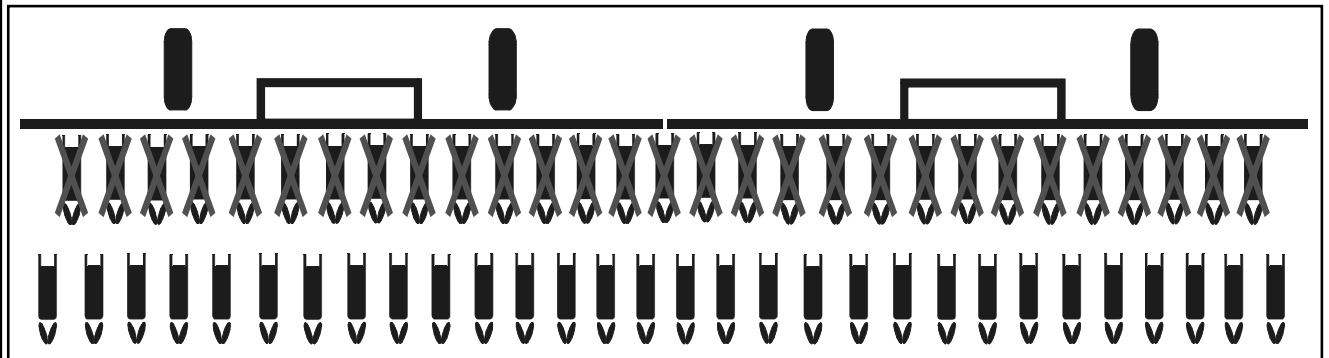
**33 rows at 382mm**



**59 rows at 210mm**



**30 rows at 420mm**



## SPECIFICATIONS - 01

### **Transport:**

All versions feature endwise transport.

### **Transport and working wheels:**

\* **Tires:** 400/60 - 15.5 (high flotation)

\* **Number:** 4 (for 1 module machines)  
8 (for 2 module machines)

\* **Inflation pressure:** 3.5 kg/cm<sup>2</sup> (50 psi)



### **CAUTION**

Transport your machine safely.  
Read "SAFETY" section in the present manual.

**NOTE:** The working wheels operate with a hydraulic balancing system which enables the seed drill to copy the ground where the seeding labor is carried out, offering a smooth performance in rough field conditions. Thus, the mainframe works parallel to the ground, avoiding strain on its structure.

### **Tractor PTO:**

These data are approximate and could vary due to circumstances such as field condition and seeding speed..

<b>MACHINE</b>	<b>REQUIRED PTO</b>
5 m	110 - 130 Hp
6 m	130 - 170 Hp
7 m	160 - 190 Hp
10 m	170 - 210 Hp
12 m	230 - 310 Hp

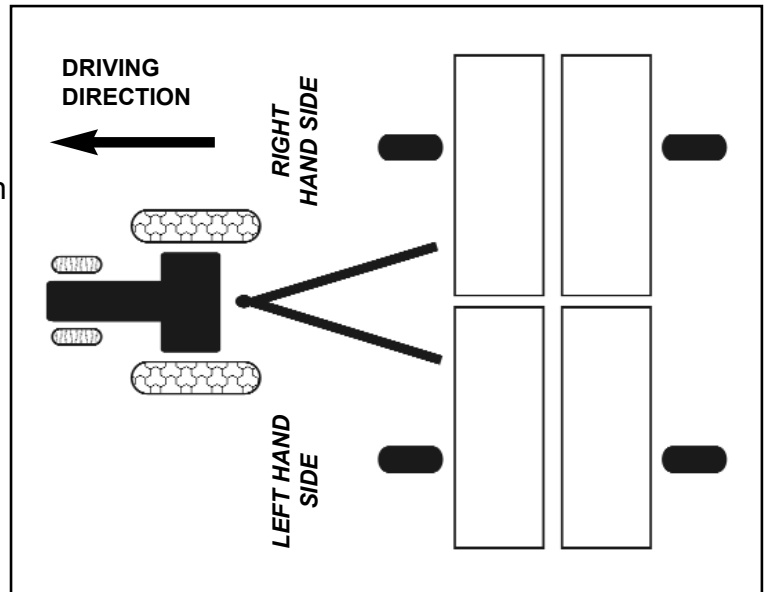
**IMPORTANT:** Tractors without a closed circuit, lower the delivery flow as their PTO decreases. For example, when lowering speed to turn at the end of the rows.



**Before using the seed drill:**

\*Read, understand and follow all instructions in the operator's manual regarding safety, operation and maintenance of the box drill before starting operation.

\*The right and left hand sides are determined by considering the direction the machine moves forward.



\* If you require technical assistance or spare parts, contact the company. Our contact information is available on the front cover of this manual, at the bottom.

- \* Check all mobile parts work freely.
- \* Check the hardware adjustment and their corresponding pins.
- \* Check the greasing joints and their lubrication.
- \* Check inflation pressure of tires.
- \* Check the safety decals are in good conditions.

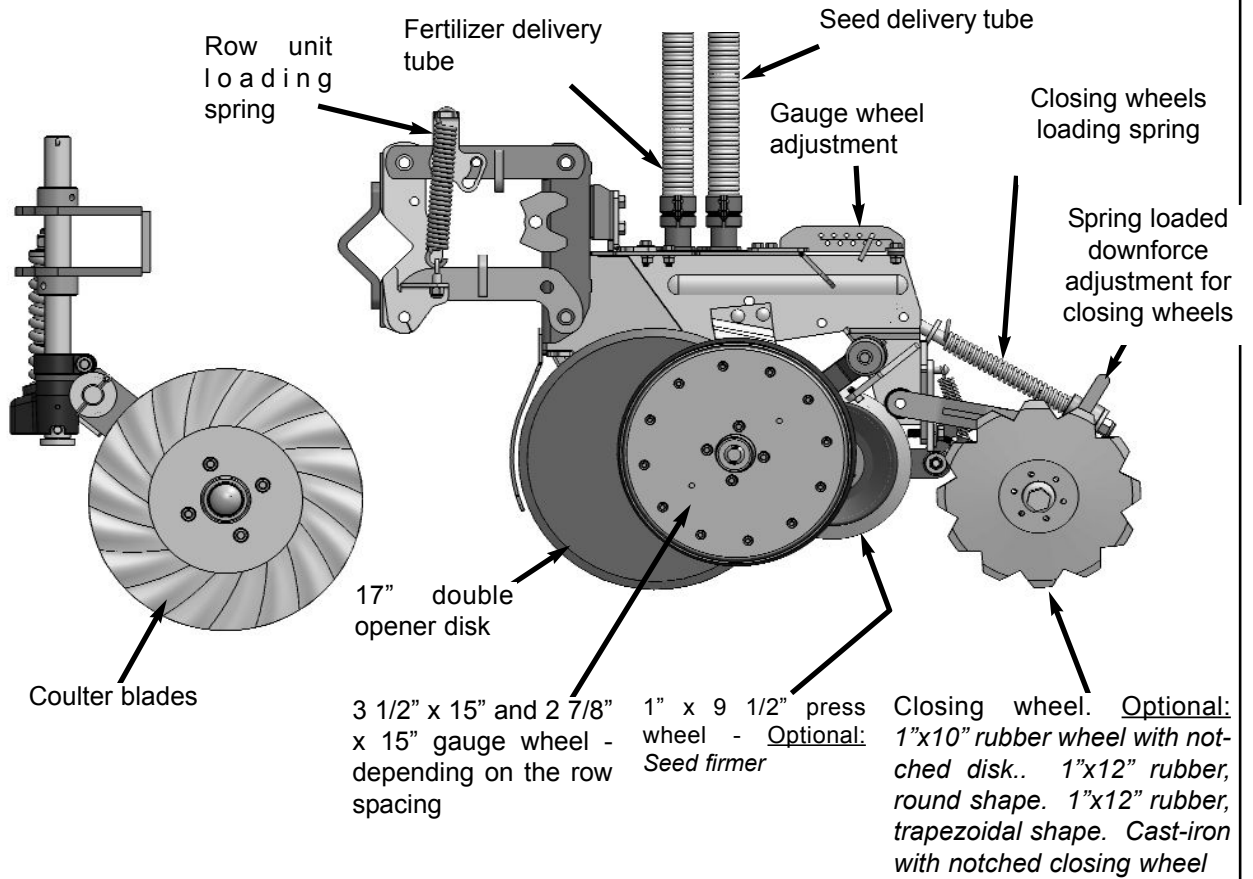
Following, procedures for operating APACHE 54000 seed drill are detailed.



**ATTENTION:** Be careful when using agricultural machinery.

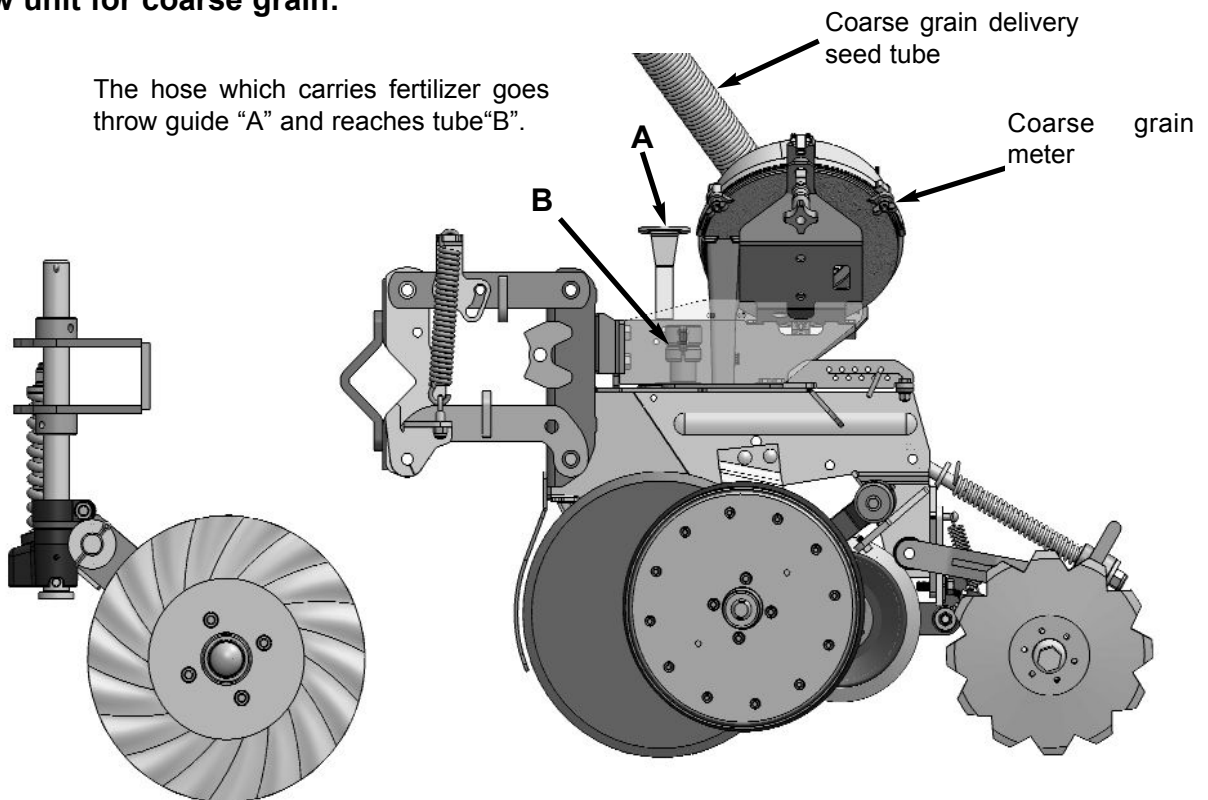
**ROW UNIT GENERAL FEATURES:**

**\* Row unit for small grain:**

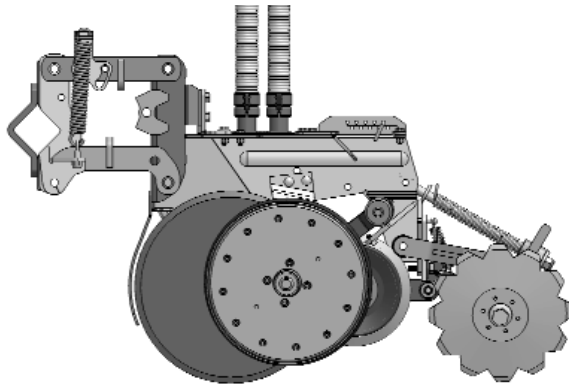


**\* Row unit for coarse grain:**

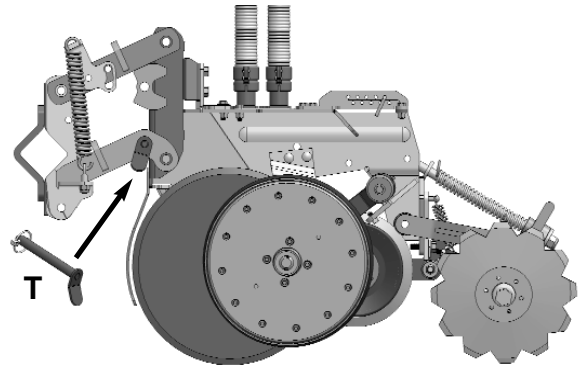
The hose which carries fertilizer goes through guide "A" and reaches tube "B".



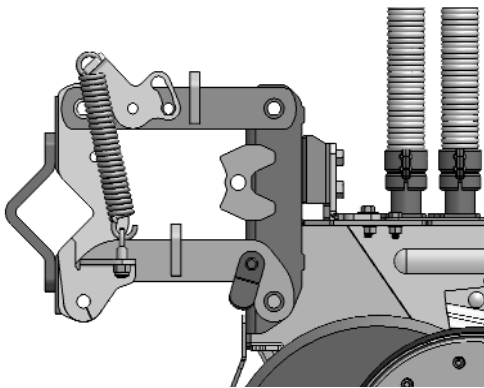
*Row unit in working position*



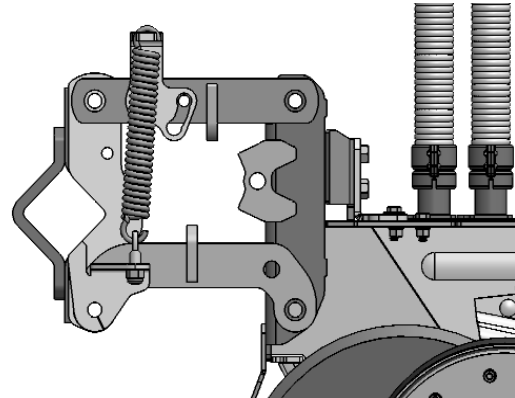
*Row unit is blocked by means of lock "T"*



**Loading spring  
MINIMUM PRESSURE POSITION**

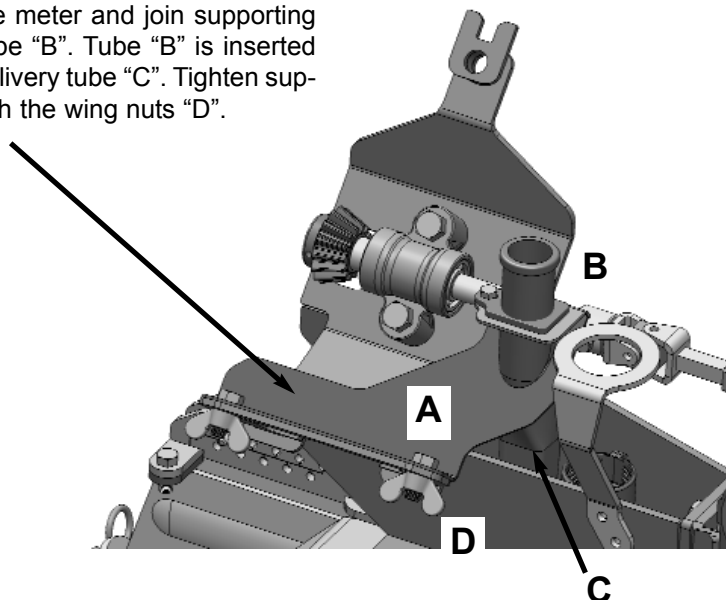


**Loading spring  
MAXIMUM PRESSURE POSITION**



**IMPORTANT:** In order to change from coarse grain seeding to small grain seeding, without altering the main components arrangement (supporting plate, cross joint, shafts, bearings, electronic sensors, etc.), the following parts assembly is carried out:

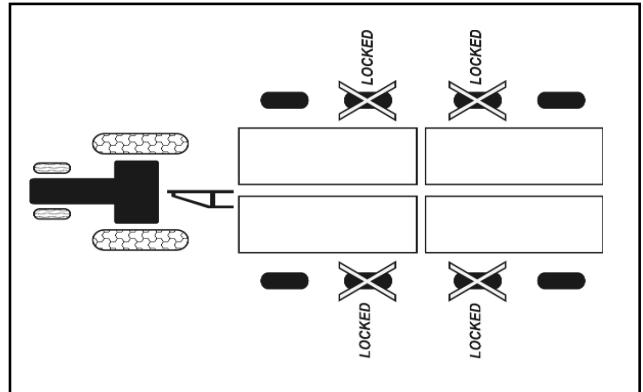
Remove only the meter and join supporting plate "A" with tube "B". Tube "B" is inserted into the meter delivery tube "C". Tighten supporting plate with the wing nuts "D".



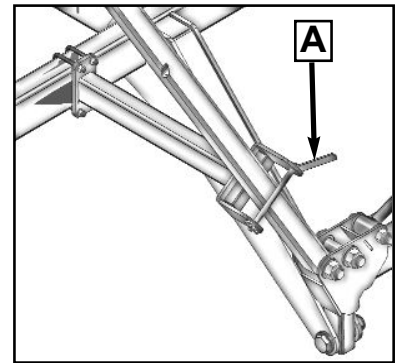
**Changing from working to transport position:**

**2 module machines:**

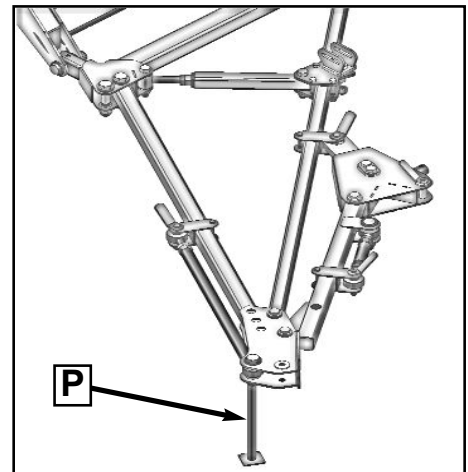
The machine and tractor are in transport position and the four central wheels are locked.



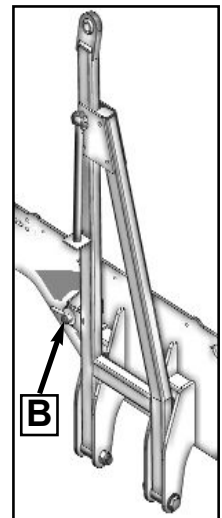
1- The operator should lower the tractor to remove the locks **A** in every hitch.



2- Actuate the the tractor hydraulic control lever to lower both halves of the working hitch and place the hitch jack **P**.



3- Place the hitch jack so as to hold the transport hitch. Disconnect the hoses and move the tractor away. Fold the transport hitch and secure its position with the lock **B**.

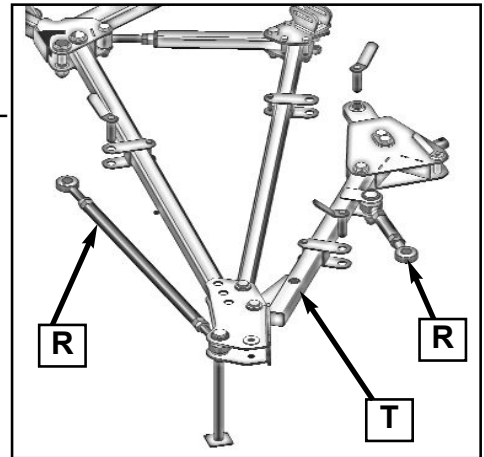


4- Move the tractor forward and finish to assemble the working hitch in order to hook it to the tractor.

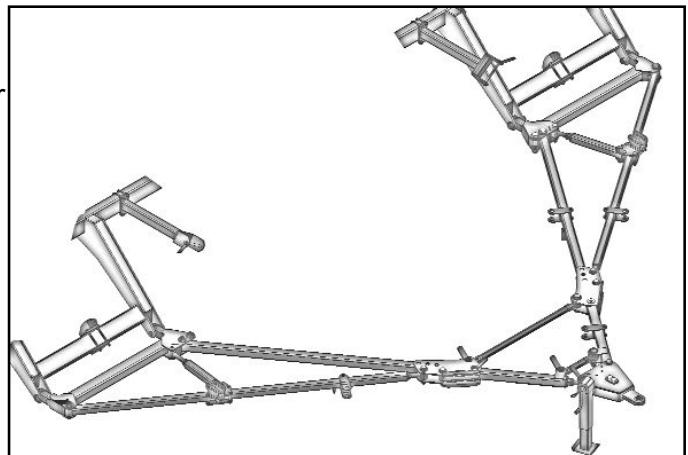
## ADJUSTMENT - 02

5- Unlock the adjustments **R**..

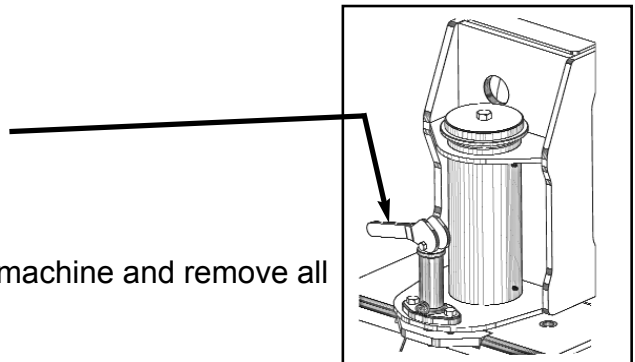
Also release the final stretch **T** in the middle of both hitches.



6- Assemble the hitch, hook it to the tractor and connect the hoses.



7- **VERY IMPORTANT:** Unlock the wheels.

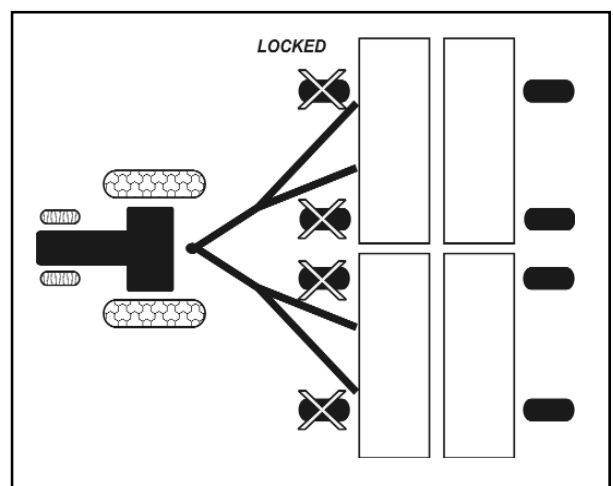


8- Actuate the hydraulic control lever to lift the machine and remove all the transport locks on the wheel cylinders.

9- Actuate the hydraulic control lever to lower the machine until the disks lie on the ground and keep actuating the tractor lever. If the machine is on solid ground, the transport/working wheels will not touch the ground. Turn them 90° to their working position and place the locks again (see item 7) to fix the new position.

**IMPORTANT:** In working position, the machine only requires the locks in one wheel line -either front or rear- all wheels should be locked.  
*Apache recommends to lock the front wheels.*

10- Start work.



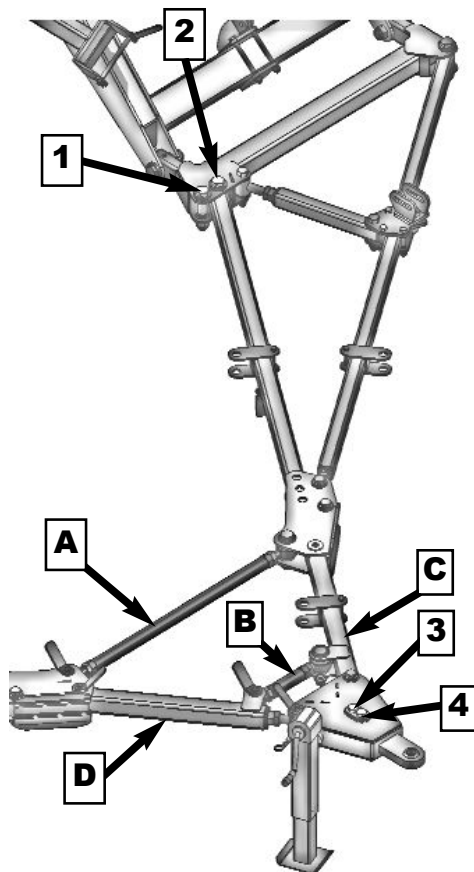
**Changing from transport to working position:**

Repeat the previous steps but in the opposite order.

**NOTE:**

For 1 module machines the procedure for changing from transport to working position is the same, except for items 5 and 6 as the hitch has one structure and does not need any assembly.

**IMPORTANT DETAILS TO TAKE INTO CONSIDERATION ABOUT THE HITCH:**



**Point 1 and point 2:**

In point 1, only the versions with spacing at 210 mm are assembled. Machines with spacing at 175 and 191mm are assembled in point 2 as shown in the figure.

**Point 3 and point 4:**

The final stretch C is coupled in point 3 but only in 12m machines. 2 module machines are assembled in point 4.

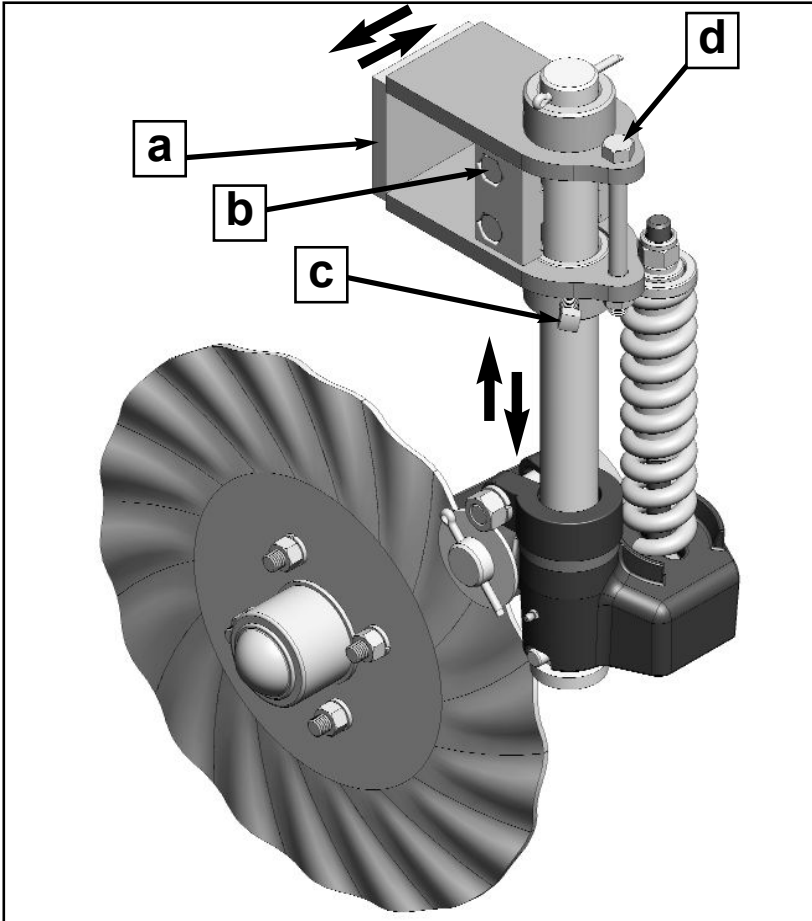
**Components A, B, C y D:**

These components have two versions: one size which couples 10m machines, and another different size which adapts to 12m machines.

**Row unit specifications:**

**Coulter blade:**

17" self-aligning no-till coulter blade, spring loaded; for cutting residue and tillage in the seeding row.



\* **Alignment adjustment:** The anchoring plate (a) which attaches the blade to the toolbar, offers side adjustment to align the blade with the double opener disks.

In order to adjust, loosen the bolts (b) and (d), and move the blade set towards one side or the other horizontally.

\* **Height adjustment:**

**NOTE:** The first height adjustment of the row units is in the wheel cylinders.

To adjust the blades height individually: Loosen the top or bottom square bolts (c) and lift or lower the complete arm and blade set.

Once the desired height is achieved, tighten the square bolts again.

**IMPORTANT:** Before tightening, check the blade is perfectly centered with the opener disks line.

**IMPORTANT**  
**ALIGNMENT OF BLADES**  
 Align the coultter blades with the center of the opener disks.  
 18.83.05.004 **APACHE**

**CAUTION**



**ALWAYS KEEP YOUR HANDS AWAY FROM THE OPENER DISKS BLADES WHILE PERFORMING ADJUSTMENTS.**

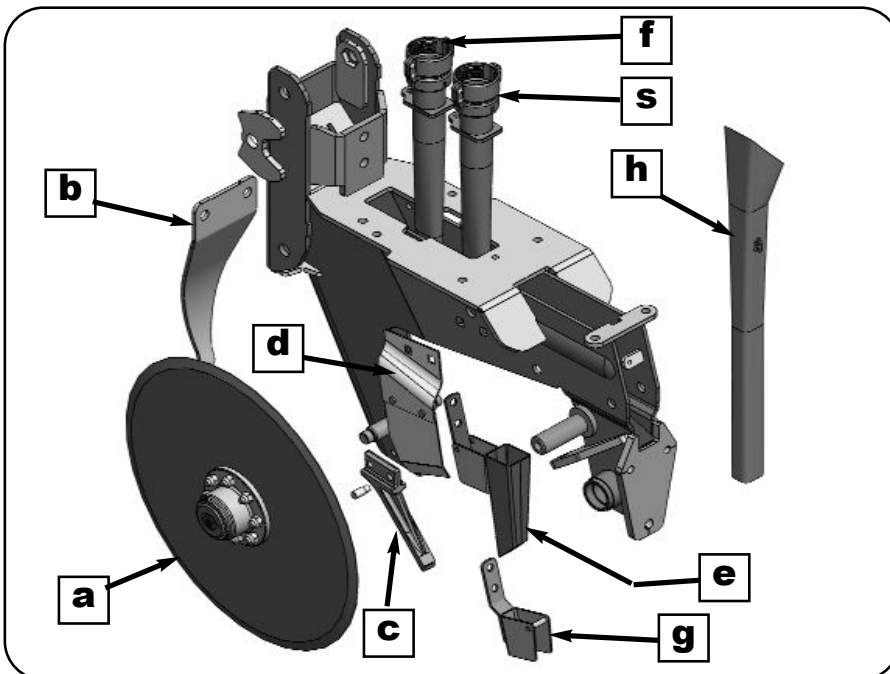
18.83.04.006 **APACHE**

**Double opener disk:**

16" double disk (a), with disk cover (b). Items (c) and (d) are inner and outer scrapers respectively and they keep the blades clean.

There is also a guide (e) inside these double disks, which supports the small grain delivery seed tubes (s) and the fertilizer delivery tube (f); or the tube (h) when the machine is assembled with the coarse grain kit.

**NOTE:** In row units with pneumatic meter, the guide (e) is replaced by item (g), to carry out the same function.



**CAUTION:** Always keep your hands away from the opener disk blades while performing adjustments.



**2 side gauge wheels:**

The opener disk seeding depth control is performed by means of semi-pneumatic wheels (h) attached to both sides of the double disk.

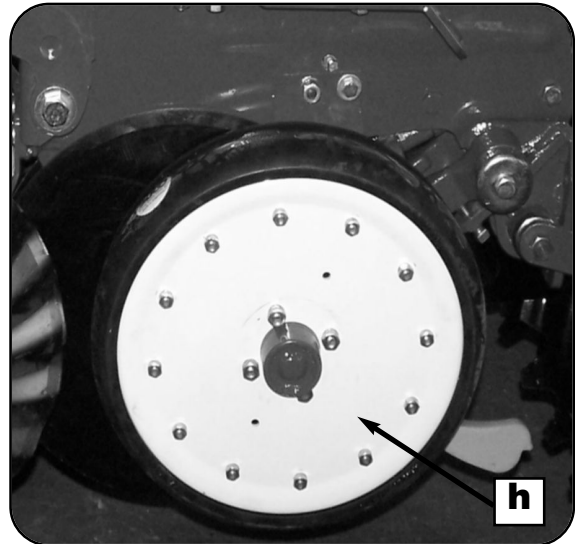
These wheels are independently linked to the opener disks unit, thus they are able to copy the ground easily.

Two wheel measurements are used:

\* These machines usually use 2 7/8" x 15" wheels; but

\* In the area of Entre Rios, 4 1/2" x 15" wheels are used.

These wheels should have a 1.5 - 3 mm space between the tire and the double disk blade in order to get their correct position.

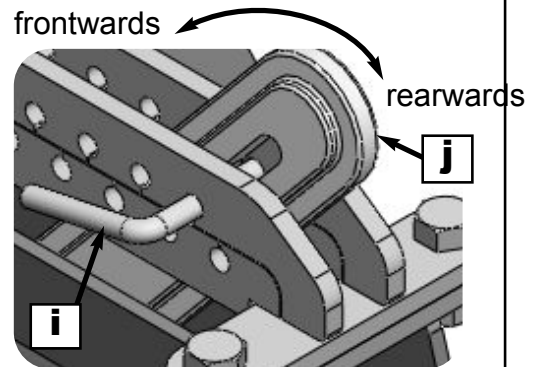


This position also enables them to keep blades clean and to hold soil down.

**Adjustment:** These wheels should be adjusted with the row units in raised position.

The 2 side gauge wheels are adjusted by means of a pin.

Remove the pin (i) and move the arm (j) frontwards or rearwards depending on the height to be achieved.



NOTE: The more **rearwards** the adjustment arm is moved, the deeper the double disk will be positioned. The opposite will occur if the arm is moved **frontwards**, the double wheels will lower impeding the double disk to penetrate too deep into the ground.

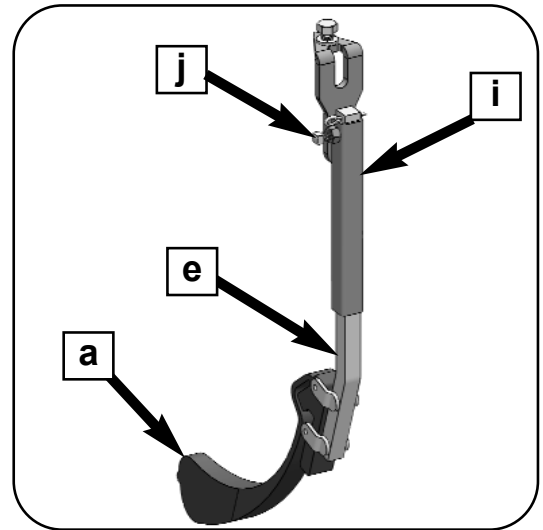
When the desired position is achieved, place the pin again to fix the arm position.

**IMPORTANT:** This walking tandem system, controls the seeding depth accurately, independently from the seed weight inside the box.

**Seed firmer:**

The seed firmer grants a full seed-soil contact. It works directly on the deposited seeds, allowing them to settle down at the very bottom of the row.

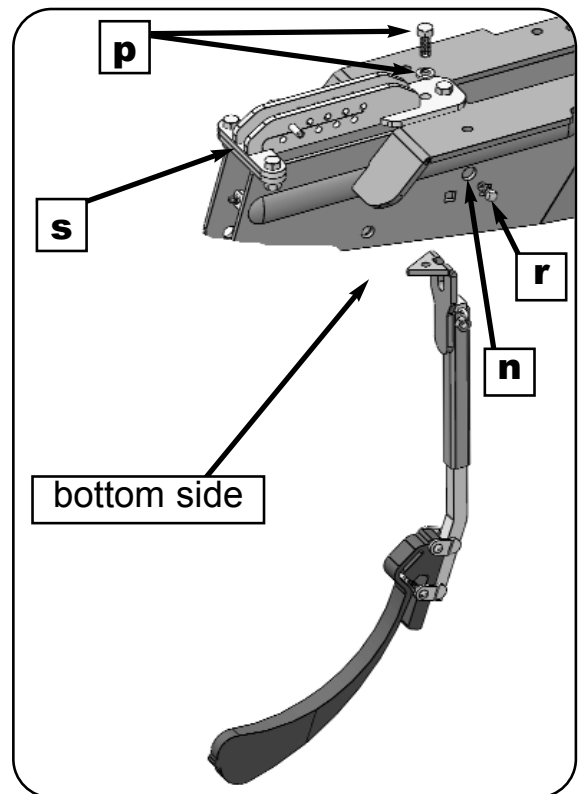
To install it, the whole system should be assembled separately: the fixing support (i), the floating support (e), the safety bolt (j) and the tail (a).



The assembled seed firmer is then mounted on the opener disk through its bottom side.

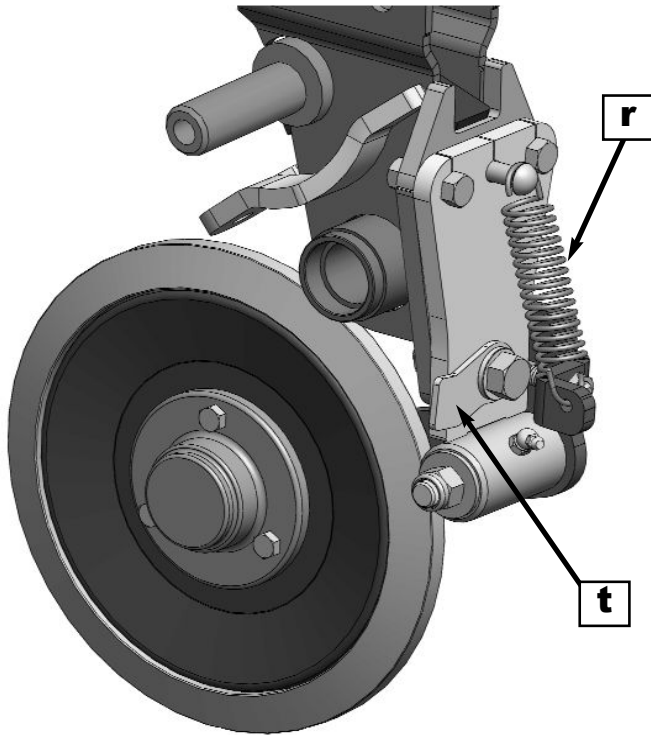
It is tightened to the adjustment selector (s), by means of the bolt and lock washer (p).

Once the bolt is tightened, put the square bolt (r) - which will be now used to adjust the seed firmer height- in the hole (n) at the side of the opener disk.



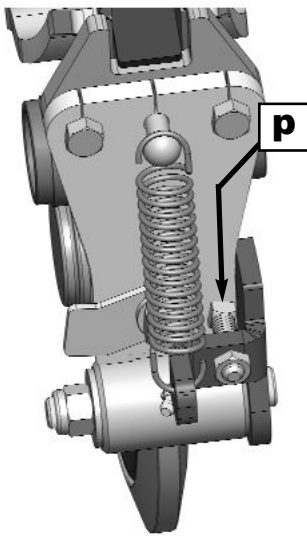
**Press wheel:**

The press wheel performs the same function as the seed firmer, but the press wheel is recommended for dry or aerated soils.



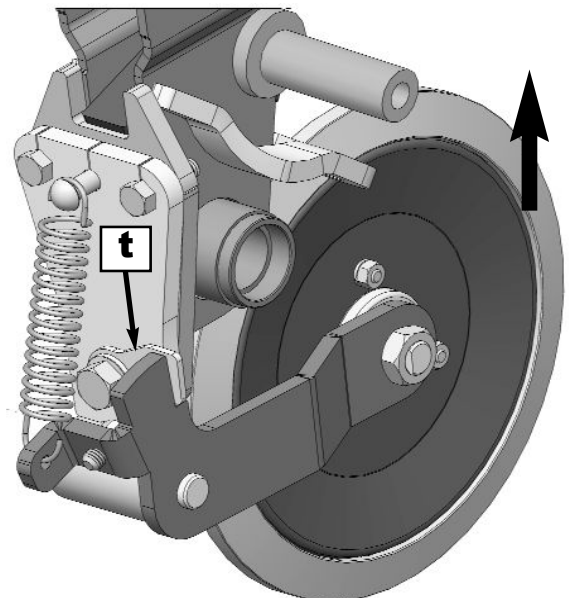
A spring (r) keeps pressure on the working field.

NOTE: The lock (t) should be free while the wheel is working.



The depth control is adjusted by giving more or less run to the square bolt. (p).

To cancel the press wheel operation, it should be lifted and the lock (t) should be turned, so that it prevents the fall of the arm (see figure).

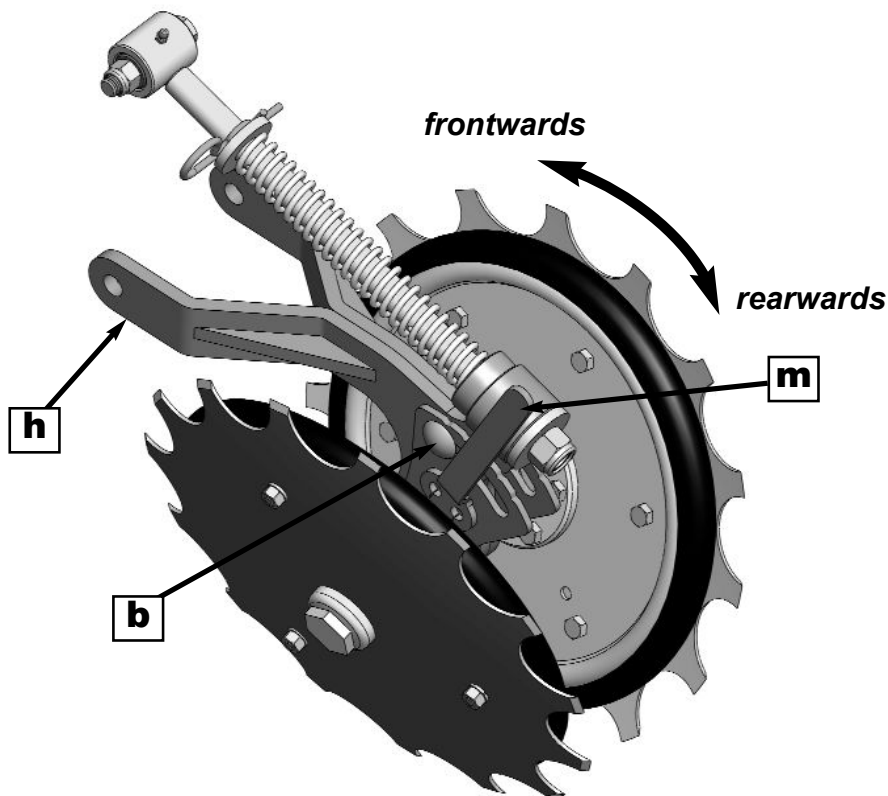


**Double closing wheels with notched disk:**

The closing wheels perform a double function:

- \* Closing: depositing the soil turned over by the opener disks on the seeds.
- \* Compacting: granting an adequate soil-seed contact.

The aim of both of them is to place the seed in a position that grants a perfect contact with the soil, avoiding inner air chambers. It is important to mention that the wheels do not work on the seeding row. Therefore, in case of excessive pressure, the seed would not be damaged or driven out. A superficial linear crack is made on the row, avoiding that the crust made up by the rain after having seeded obstructs the germination and/or growing.



The closing wheels are linked to the opener disk by means of a fork (h), and they have angle of attack adjustment and spring loaded downforce adjustment.

**\* Angle of attack adjustment:**

The angle of attack will be responsible for the ridge shape and size in the seeding row.

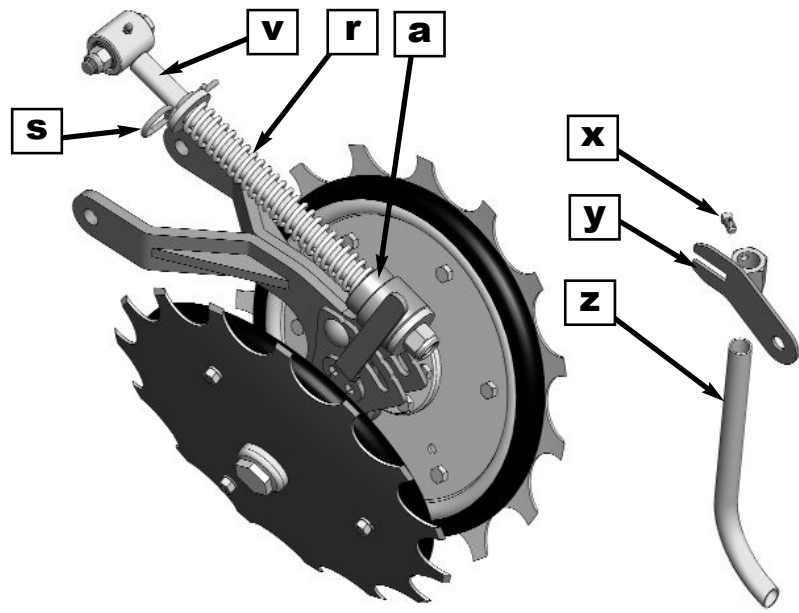
**NOTE:** The loose soil on the seed, affects the crop emergence, weather favorably or unfavorably. In order to determine the appropriate quantity of soil on the seed, the following items must be considered: soil humidity, evaporation and depth. Taking this into account, the corresponding adjustments should be carried out.

To adjust the angle of attack, first the bolt (b) should be loosened, next the crank (m) should be held and all the wheel kit must be turned frontwards or rearwards, within the range allowed by the shaft adjustment. Consider that the soil deposited on the seed increases frontwards and decreases rearwards.

**\* Spring loaded downforce adjustment:**

This adjustment is very simple, it consists of an adjustment arm (v) with adjustment points; a spring (r) guided by this arm; and a safety device (s) to set its position.

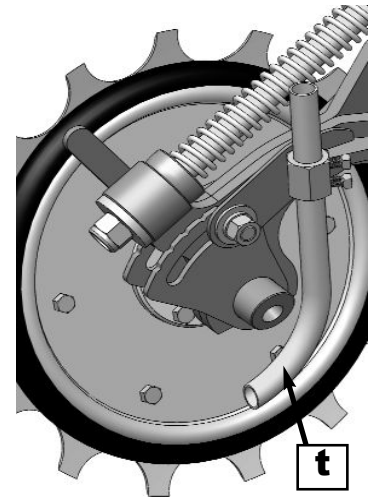
In order to give more or less load to the closing wheels, the operator should remove the safety device, press on the upper end of the spring so as to visualize the other items of the adjustment arm and place the safety device in the new position.



**NOTE:** The spring guide works on a convex support (a) with a rounded outline which, supported by the shape of the fork, enables to absorb the up and down movements of the wheels, without problem.

The items (x), (y) and (z) belong to a pasture seeding attachment. They are mounted on the closing wheels set as shown in the figure.

The hose coming from the grass seeding box unloads in the tube (t).



**Optional closing wheels models:**

From left to right:

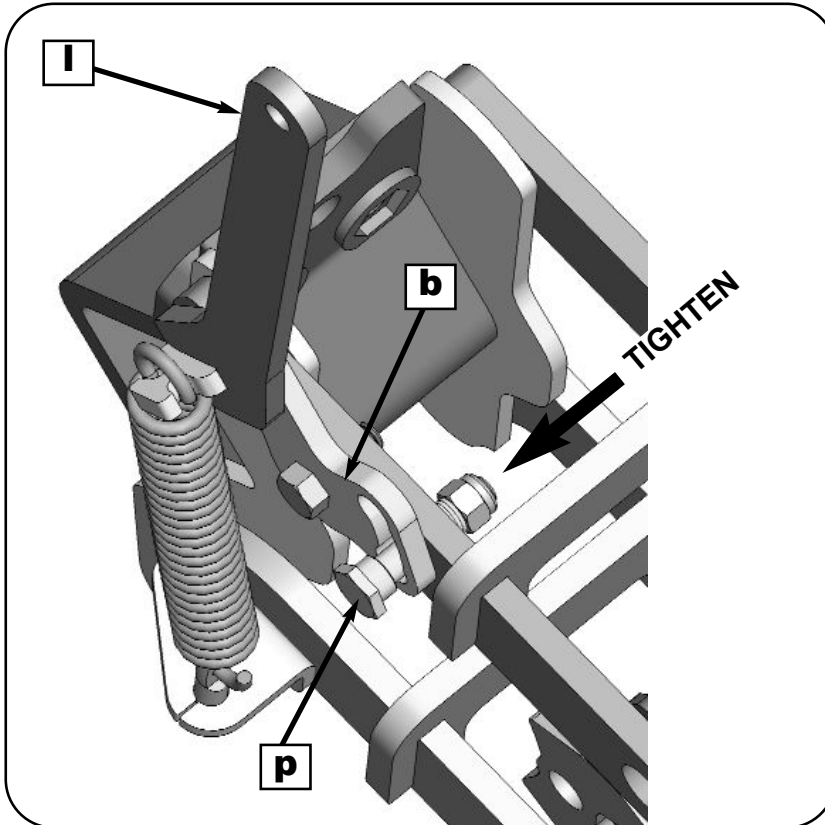
- \* 1" x 10" rubber round shape
- \* 1" x 12" rubber round shape
- \* 1" x 12" rubber trapezoidal shape
- \* Iron
- \* Notched disk



**IMPORTANT:** Operate the downforce adjustment system with the row units touching the ground.

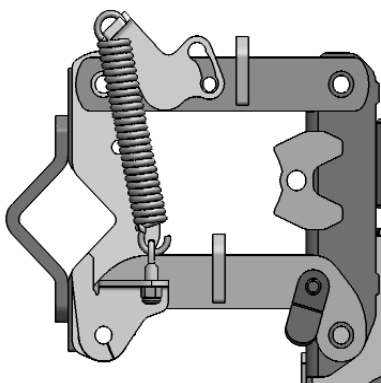
The soil to be worked can present different compacting and surface coating conditions. The row unit downforce adjustment system function is to adapt the row unit to these conditions.

The system contains two loading springs, whose operation depends on their position. These springs are clamped to a drive arm which changes their position towards the loading point or neutral point.

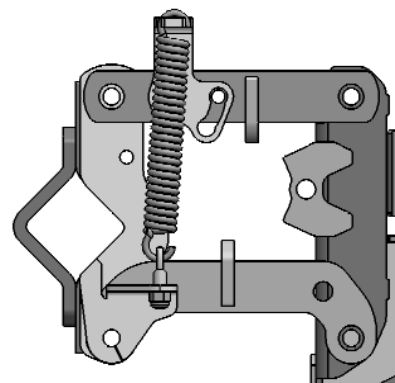


**Operation:**

Use your hand only for tightening the bolt (p), releasing the arm (b). Help with the handle (L) to turn the arm (b) towards one position or the other.



NEUTRAL position, or without load.  
*(Recommended for loose or worked soils.)*

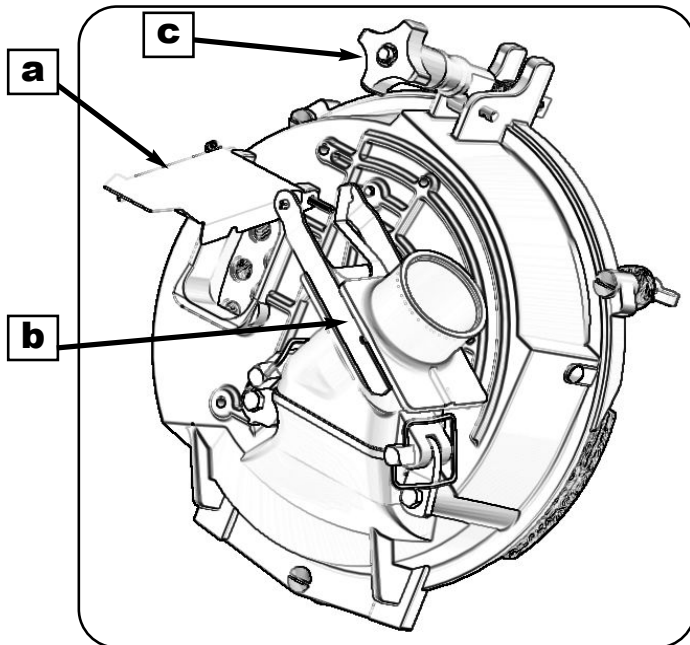


Position WITH LOAD.  
*(Recommended for hard or compact soils.)*

**Seed meter:**

The inclined plate metering system offers the following features:

- \* Excellent seed treatment.
- \* Distribution accuracy.
- \* No inner overloading.
- \* Side fall avoids seed bouncing inside the seed tube. (\*)



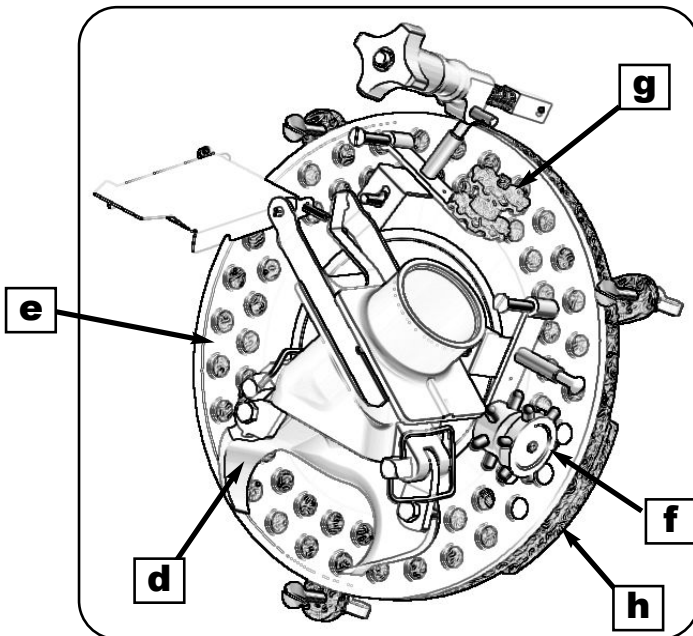
Some of its main components are:

On the outer side we find: **a-** Inspection unit: it enables the observation, at any time, of the meter ideal performance. **b-** Seed inlet lock. **c-** Fastening knob: this knob tightens the meter position on the machine.

After removing the casing to observe the inner side we find: **d-** Flow adjustment: it works with different types of seeds, keeping a constant volume inside the meter. **e-** Seed plate: made of injected nylon, specially designed according to seed type. **f-** Ejecting wheels: made of nylon, its design does not harm the seeds. It rotates on the plate removing the seeds that could be stuck in the cells.

**NOTE:** The corn plate also contains a stripper wheel “**g**” that helps to place only one grain in each cell. When 2 grains come into the same cell, in most cases, the stripper wheel induces only one of them to get released, as the other one is positioned accurately.

**h-** Back ring cover: polished surface to avoid seed damage during transport.

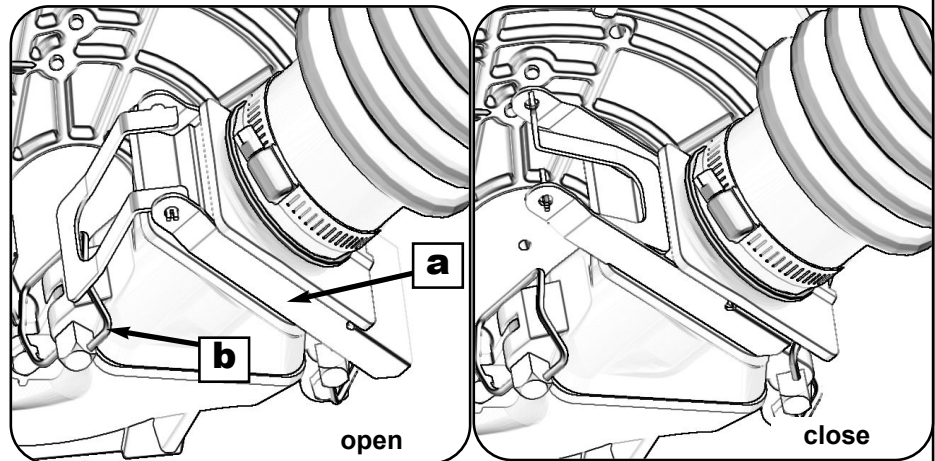


(\*)The plate inclination angle (40°), prevents seeds from escaping from their cells owing to vibration caused by high speed seeding or uneven ground. Besides, it optimizes seed dropping, as it facilitates seed inlet into the vertical route inside the seed delivery tube towards the bottom of the row, avoiding seed bouncing which could alter distribution.

Removing the meter from the seed drill:

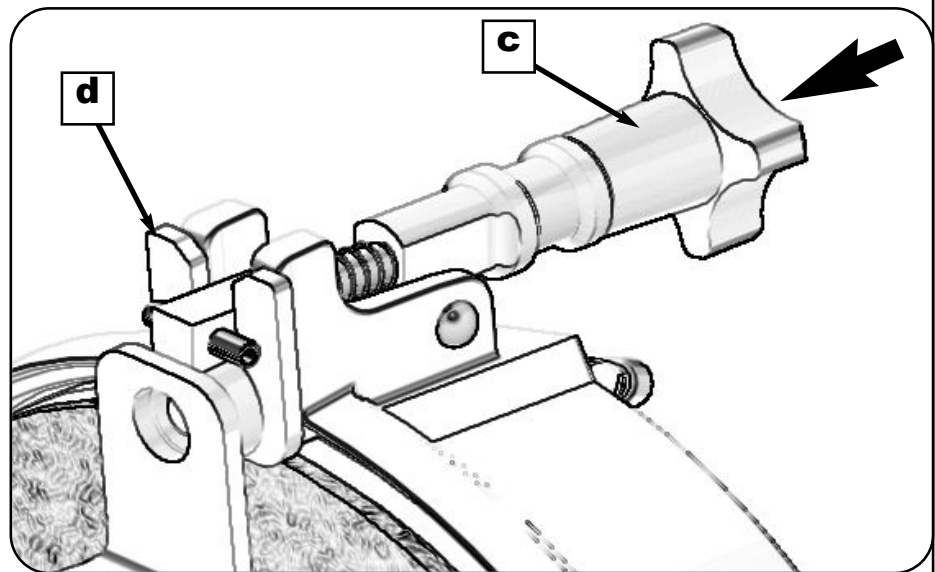
1- Lock seed inlet to the meter by closing the sliding plate “(a)”

2- Remove both square cotter pins (b) and release the meter from the delivery hose.



3- Loosen the knob (c), and then apply some light pressure on it towards the direction indicated by the arrow, to release the support lock (d).

Remove the meter.



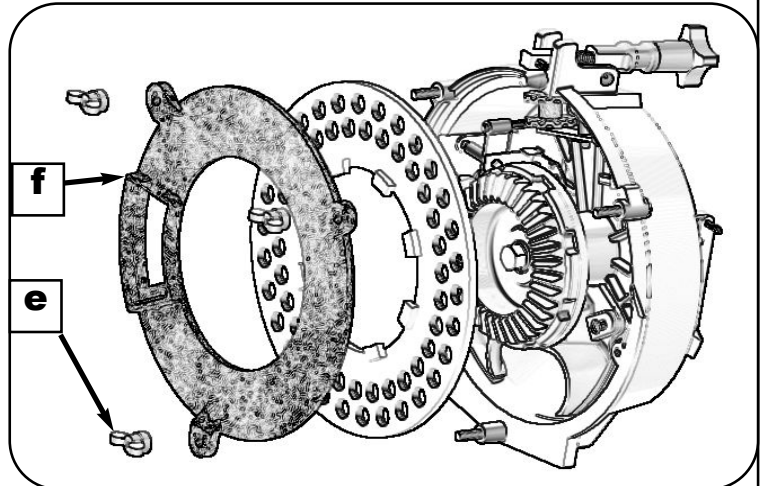
Changing the plate:

- 1- Loosen and remove the wing nuts (e)
- 2- Remove the back ring cover (f)
- 3- Remove the plate and ejecting wheel.
- 4- Replace with the new ejecting wheel and plate.

NOTE: Some plate models share the ejecting wheel. See "Picture N° -" in the spare parts manual.

- 5- Place back ring cover and wing nuts again.

NOTE: When using the corn plate, do not forget to place the stripper wheel. Remove it when changing the seed type.

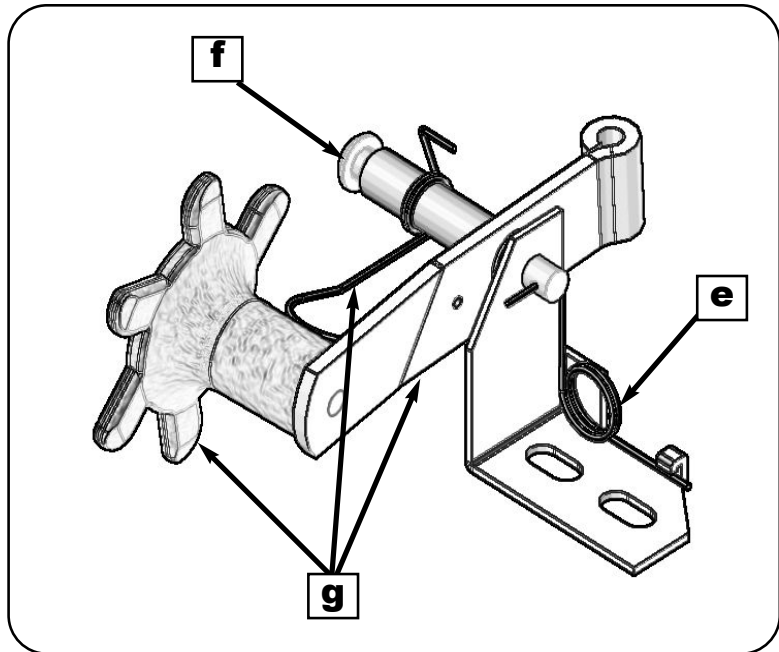


IMPORTANT: In order to preserve their life span, it is recommended that the plates removed should be kept in their special containers.



How to change the ejecting wheel:

- 1- Unhook the spring (e) from the pin (f).
- 2- Remove the pin (f) in order to free the ejecting wheel kit (g) and remove it from inside the meter.
- 3- Select the ejecting wheel kit corresponding to the new plate, and mount it repeating the steps previously mentioned in the opposite way.

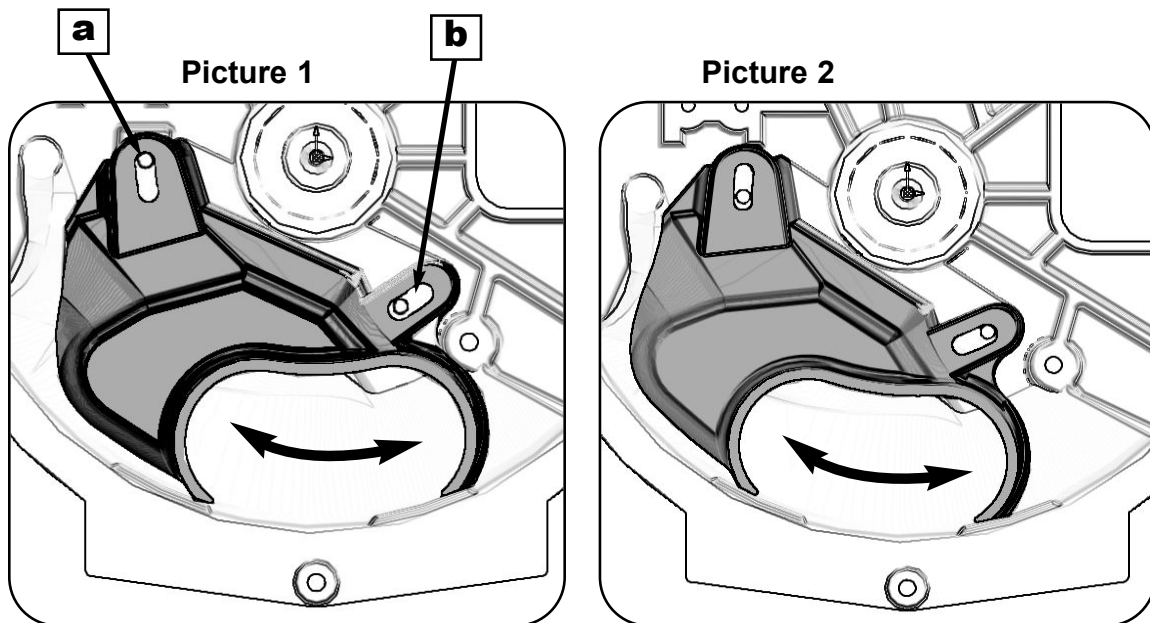


Flow adjustment:

It is placed inside the meter. This adjustment controls seed inlet which goes down from the box, keeping a constant volume which benefits the plate filling.

It has a position variation range marked by the fastening points (a) y (b). Loosen the bolts that tighten these points and and turn the flow adjustment towards one side or the other as indicated by the arrow. Once the desired position is achieved, tighten again.

Downforce adjustment system:

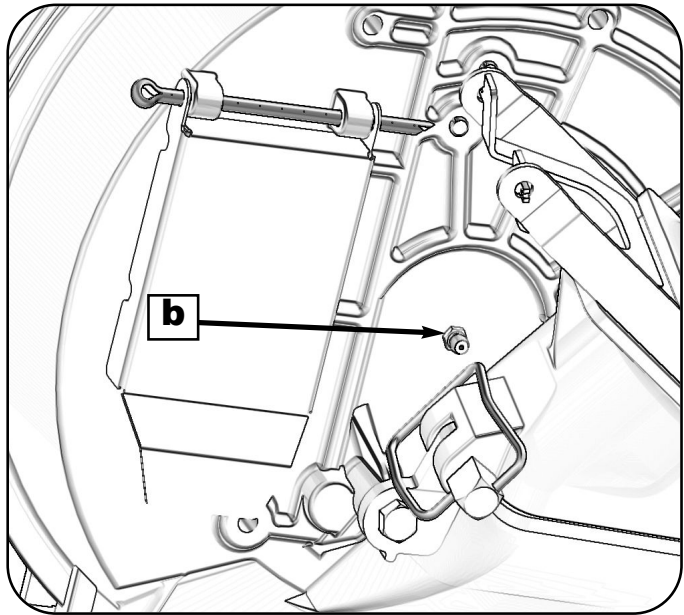


The position indicated in Picture 1, shows the adjustment closest point, which is recommended for small grain. Picture 2 instead, indicates the adjustment completely open, recommended to keep the volume with coarse grains.

**Meter lubrication:**

It is important to remember that the meter should be lubricated through the supply inlet (b), placed at the outer rear side of it.

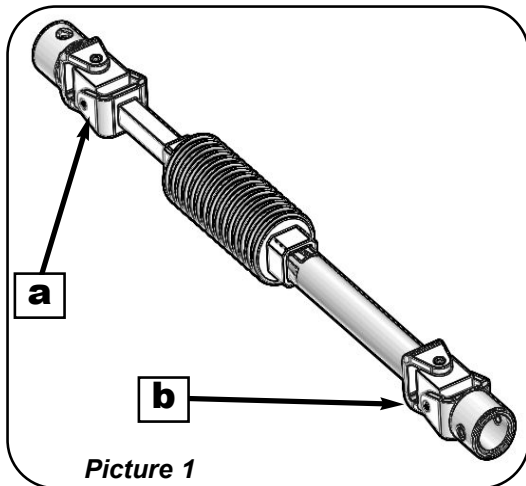
Lubrication should be generous but not excessive, with regular intervals.



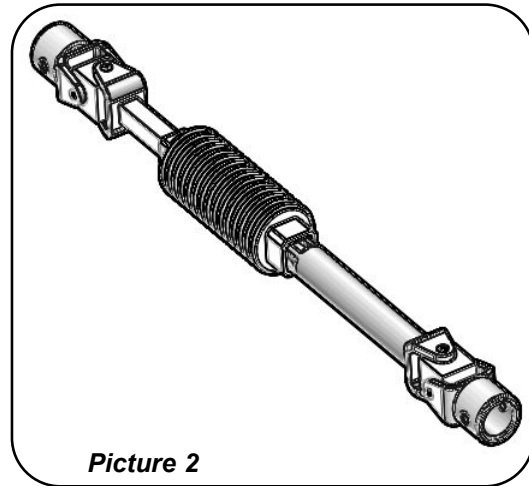
**Meter transmission:**

Transmission reaches the meter through a mechanical cross joint, whose telescopic system should be specifically assembled so as not to alter its performance.

***Incorrect assembly***



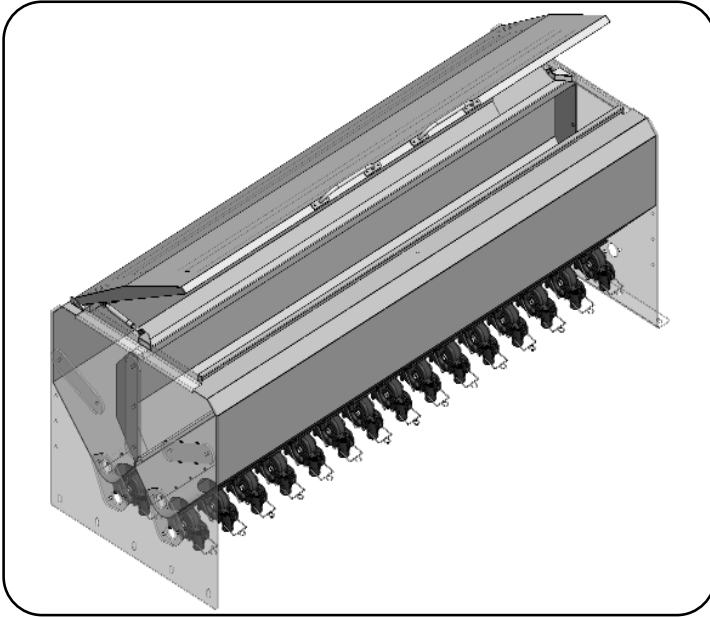
***Correct assembly***



In case the cross joint should be dismantled for any reason, and its disassembly occurred, when assembling it again, make sure the ends (a) and (b) keep the same direction, as shown in Picture 2.

**Boxes:**

They are made of blended metal sheet and they present the following features:



**Versions:**

- Left and right boxes -30 outlets
- Left and right boxes -36 outlets
- Left and right boxes -42 outlets



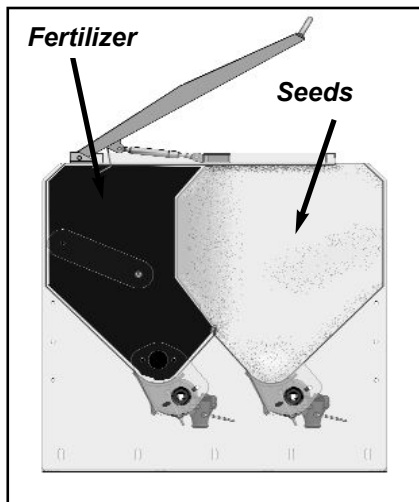
**WARNING:**

Always empty the boxes to transport the machine

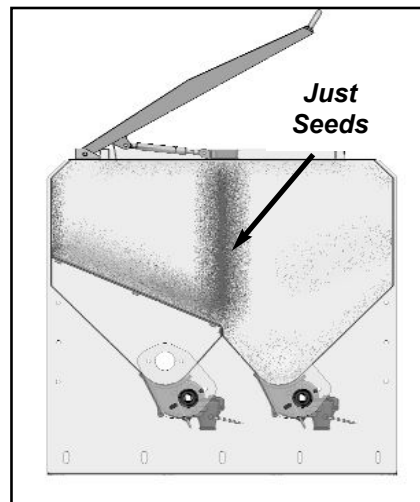
**Capacity:**

The box has two compartments for seed and fertilizer, but has a deflector for using just one product.

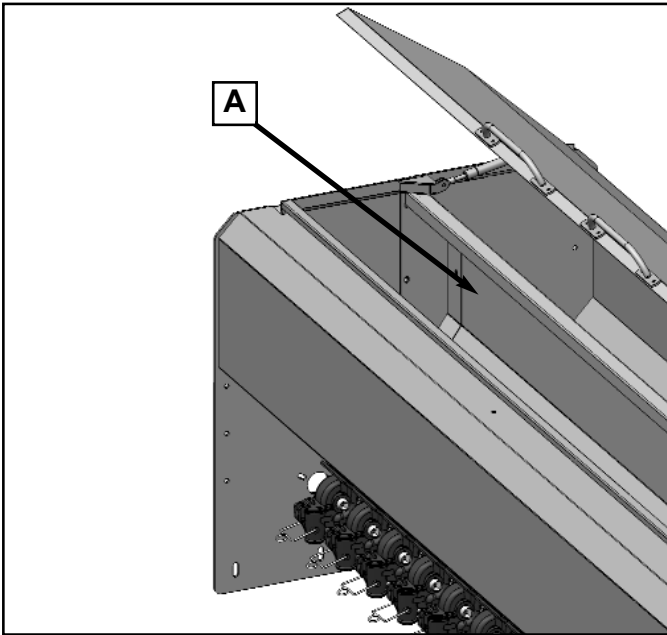
*Box with compartments*



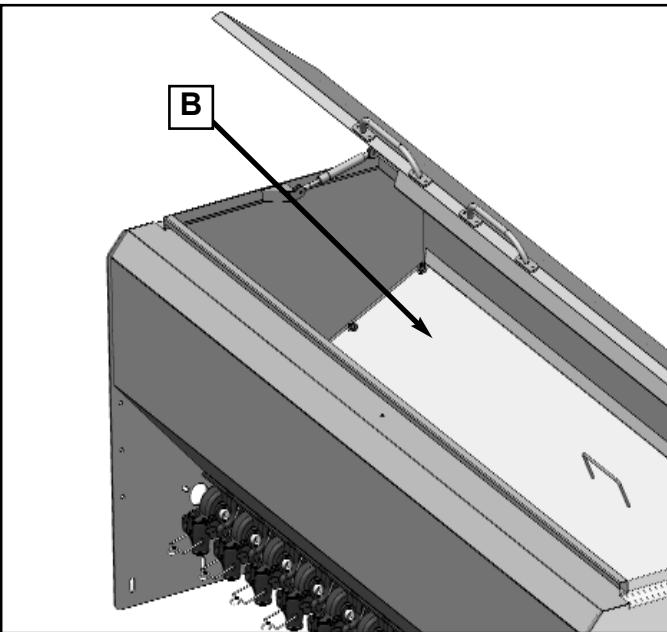
*Box with deflector for using one product*



**Location of box interior components for each situation:**



If the box is going to be used with the seed and fertilizer compartments, the separator **A**, which has to be bolted inside the box should be placed.



In order to use the box just for seeds, the deflector **B** should be placed.

**NOTE:** The “just seeds” deflector is used when seeding and fertilizing labors are carried out *separately*. This deflector *increases the box capacity for seeding to the maximum*.

	<b>Seed capacity (dm<sup>3</sup>)</b>	<b>Fertilizer capacity (dm<sup>3</sup>)</b>	<b>Just seeds (dm<sup>3</sup>)</b>
<b>5 m 1 module</b>	1300,0	953,0	1691,0
<b>6 m 1 module</b>	1684,0	1150,0	2303,0
<b>7 m 1 module</b>	1836,0	1347,0	2700,0
<b>10 m 2 module</b>	2600,0	1906,0	3382,0
<b>12 m 2 module</b>	3368,0	2300,0	4606,0

It is given in dm<sup>3</sup> as it is a standard volume measurement.

This capacity multiplied by the specific weight of the seed or fertilizer to be put in, will give the capacity in kilograms.

Eg.: corn: 0.75kg/dm<sup>3</sup>  
0.75kg/dm<sup>3</sup> x 1300= 975kg

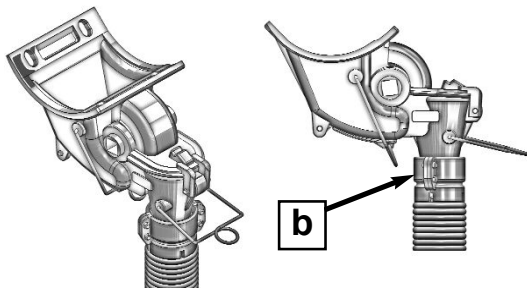
Following, a chart with some specific weights:

SOYBEAN: 0,75 a 0,8    SORGHUM: 0,69 a 0,75    WHEAT: 0,8 a 0,85  
 CORN: 0,69 a 0,75    UREA: 0,72    PHOSPHATE: 0,92

The machine has 2 boxes per module:

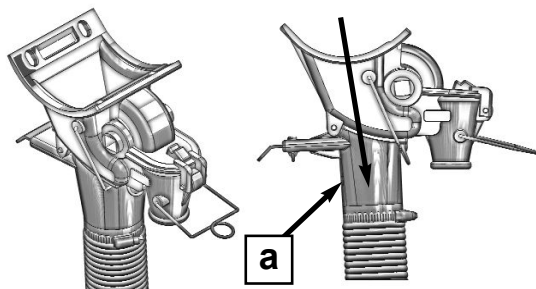
	<b>Boxes conformation</b>
<b>5 m 1 module</b>	2 boxes - 30 outlets each
<b>6 m 1 module</b>	2 boxes - 36 outlets each
<b>7 m 1 module</b>	2 boxes - 42 outlets each
<b>10 m 2 modules</b>	4 boxes - 30 outlets each
<b>12 m 2 modules</b>	4 boxes - 36 outlets each

**“Chevron wheel type” meter:**



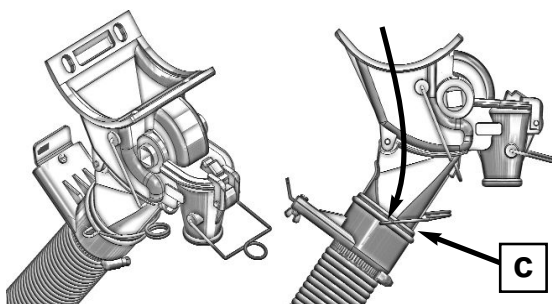
**\* Chevron unit with nozzle and hose (Ø38):**

This is the regular meter, as shown in the figure, with coupling nozzle (b) and Ø 38 hose. This configuration is suitable for small grain seeding.



**\* Chevron unit with straight coupling and Ø63 hose:**

The meter does not work here. The seeds go directly through the coupling (a) with no intervention of the “chevron type” wheel. This is why the hose is thicker and it carries the seeds towards the plate meter.



**\* Inclined coupling chevron unit and Ø63 hose:**

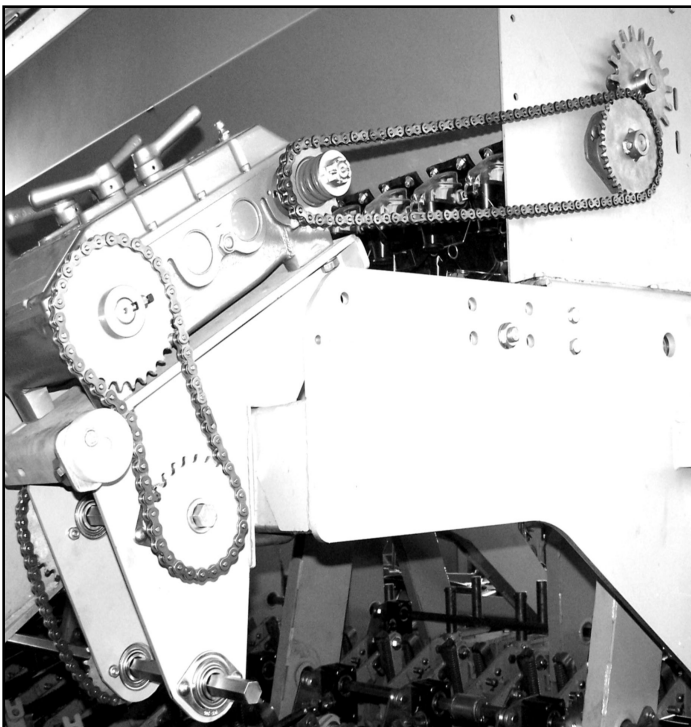
The meter does not work here either. The difference is the coupling (c) is inclined, which gives the hose a better orientation, thus avoiding blockage. This configuration is performed on the front row units during coarse grain seeding.

**Transmission change from small grain to coarse grain:**

Following, a description of how transmission is modified for coarse grain seeding.

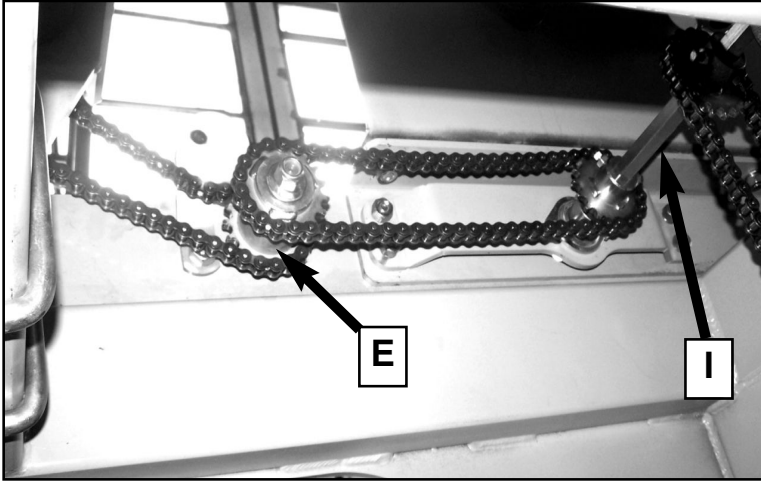


When the seed drill is assembled for small grain, transmission goes from the wheel to a central shaft, and from there to the seed box on the right hand side of the machine, and/or to the variator for fertilizer on the left hand side.

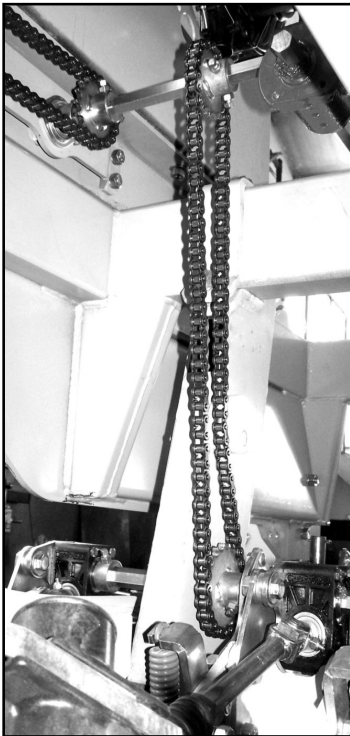


From the variator box to the seed or fertilizer distribution shaft, depending on the corresponding sector.

## ADJUSTMENT - 20

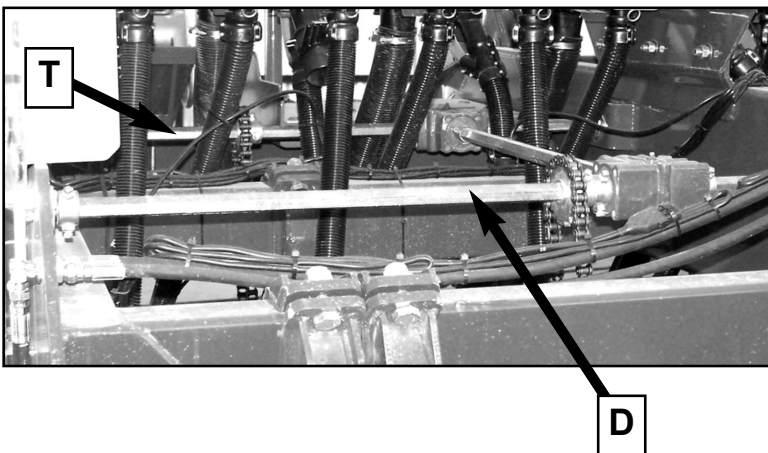


For coarse grain assembly, the transmission reaches the box and from there it lowers to a double sprocket (E) located inside the machine. This sprocket transmits movement to a countershaft (I).



This countershaft lowers transmission to the coarse grain meters shaft, which in turn receive it through the individual cross joints.

When the seeding configuration only requires the use of the rear row units, this countershaft is sufficient to carry the transmission. However, if the configuration comprises the front row units, another identical shaft is mounted parallel to this one, which receives movement from the first one, and is in charge of lowering the transmission to the front row units.



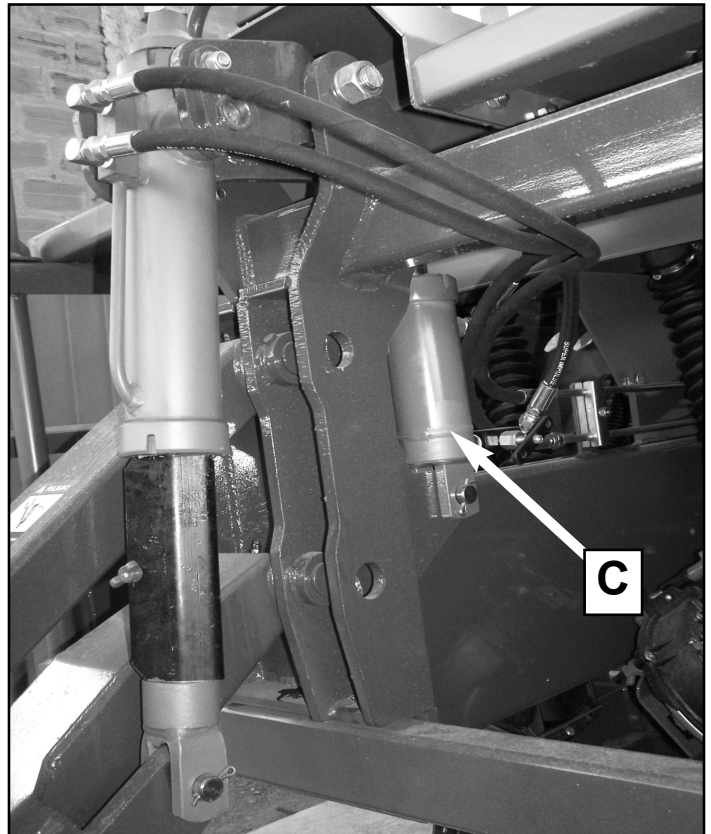
Countershaft (T) for rear row units.

Countershaft (D) for front row units.

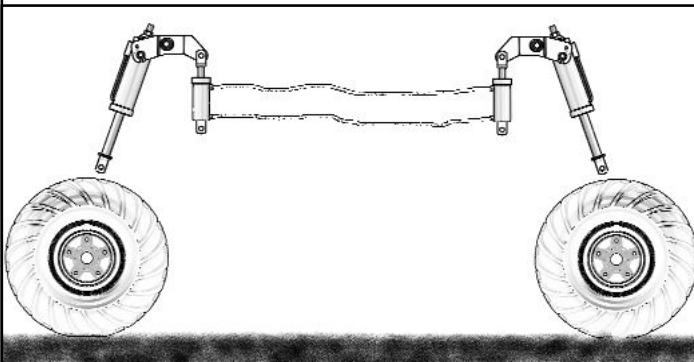
**Compensator cylinders:**

The compensator cylinders "C" help in keeping the mainframe levelled to the ground.

They do not have hoses connected to the tractor as they should NEVER be touched. They have a factory made adjustment, which should not be altered, in order to make sure the compensation system works correctly.



**Compensation system explanation diagram:**

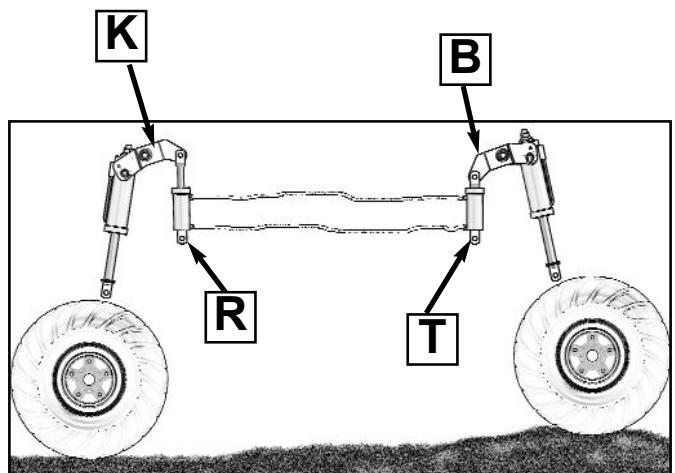


**Example 1**

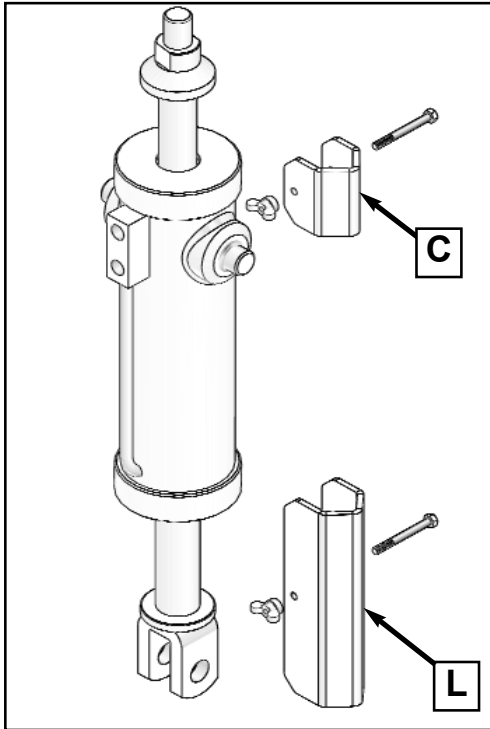
*Both cylinders are connected to each other, lower part to lower part on even ground. There are not many variations.*

**Example 2**

*One of the wheels finds a slope, and goes up over the others. The wheel lifts, the beam "B" turns closing the compensator cylinder "T". The displaced oil moves to the compensator cylinder "R" and opens it. This activates the beam "K" which pushes the other wheel downwards keeping the mainframe levelled in spite of ground unevenness.*





**Wheel cylinder locks: When to use them??**

The transport/working wheel cylinders have two locks which perform the following functions:

\* The short lock "C" is used when the machine is working, to shorten the cylinder course at the end of rows and improve the working time.

**NOTE:** The operator should check the locks are placed before starting to work.

\* The long lock "L" is used when the machine is being transported, when it is stored at the end of the season, or when servicing. In all these situations, this lock prevents excessive effort on cylinders or other hydraulic joints connected with this circuit.

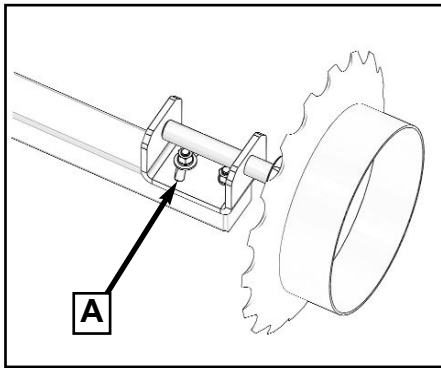
**How to place the safety locks in the cylinders:**

- 1- Activate the circuit to open the wheel cylinders.
- 2- Place the safety locks "L" with their corresponding safety device.
- 3- Activate the circuit again to close the cylinders until they lie on the locks, and continue to activate until the circuit is decompressed, making sure that the effort is made only by the locks "L".

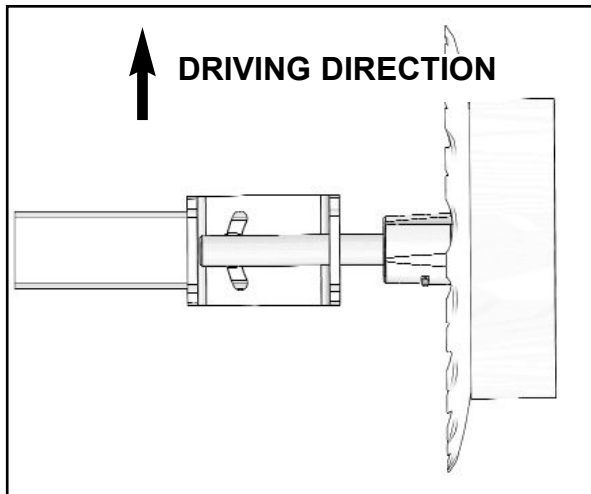


**IMPORTANT:** It is very important to remove all the pressure from the hydraulic system when the machine is being transported, stored or repaired. **Always use the cylinder locks "L". They should only be removed while seeding.**

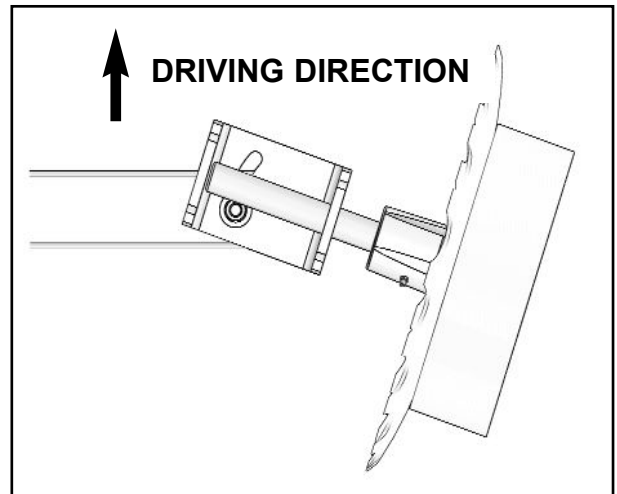
**Marker adjustment:**



As well as the opener disks, the markers also suffer the consequences of the soil condition that is being worked. For example, hard soils are much more difficult to mark. Owing to this, the marker has an adjustment point "A" which gives more penetration capacity.



*The marker in straight position for normal soils. Moderate penetration.*



*The marker in open angle position with respect to the driving direction, for hard soils. The larger the angle, the more penetration capacity.*

To adjust the marker disk, loosen the nut in point "A", and turn the complete support and marker disk set.

**Transmission adjustments:**

**IT IS RECOMMENDED TO CARRY OUT A FIELD TEST BEFORE STARTING THE SEEDING OPERATION.**

The following charts contain basic advice.

Variable factors such as seed quality, specific weight, added products, environment, inflation pressure of tires, seeding speed, etc.; can alter the real application values from the values shown on the seed/fertilizer charts. Therefore, after the machine is accurately adjusted, it is recommended to test quantities.

It is always important to carry out an in-depth checkup of the seed drill before the seeding season. One of the proposed tasks is to analyze each meter delivery so as to check quantity uniformity. In case there were any differences, it would be useful to average each meter value and establish, on a particular basis, a “tolerance variation range”, for example 5%.

That is to say, if the collected average value is 100 g, the work of meters with collected quantities ranging between 95 and 105 g will be accepted, and the others will be checked.

Taking into account the row spacing used, a quantity of linear meters that represent 10m<sup>2</sup> surface are sown (10m<sup>2</sup> linear meters sowed x row spacing).

Put bags in some meters (to check their uniform work too), take one bag of collected product and weight it so that it shows a value in grams.

Considering that to convert 10m<sup>2</sup> surface into 1 ha you must multiply by 1000, and that to convert grams into kilograms you must also multiply by 1000, the value of the collected products in grams, is instantly turned into kg /ha. This avoids performing calculations in the middle of the field.

If the collected product value does not match up with the value to seed/ha, the gearbox should be adjusted again.

The only way to know the linear meters value to cover is knowing the row spacing, and the collected product will automatically turn into kg/ha.

**Linear meters = 10m / 0.2625 m (e.g. row spacing) = 38 linear meters**

**IMPORTANT:**

\* It is recommended to test as many meters as possible; the larger the distance tested is, the more accurate results will be obtained. The example explained above is one option among others to avoid the operators perform too many calculations.

\* Have in mind that the test should start some meters before the mentioned “specific linear meters”, in order to load the meters and to reach the same speed that will be used while seeding.

\* The test should be carried out in the lot to be seeded.

## ADJUSTMENT - 25

The following chart details some linear meters to be covered depending on row spacing:

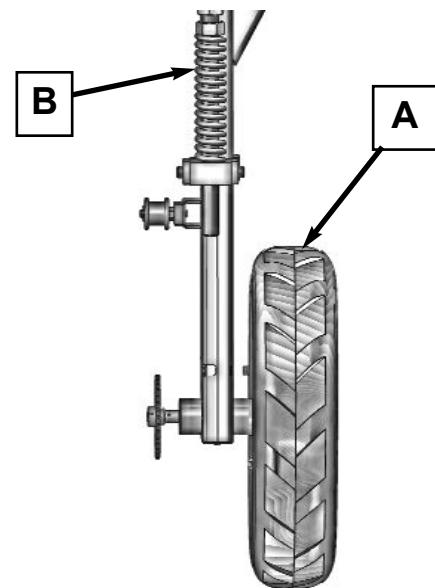
Row spacing	Linear meters to cover	Collected grams	Kg / ha
262.5mm	38	100	100
175mm	57	100	100
191mm	52.3	100	100
210mm	47.6	100	100
350mm	28.5	100	100
382mm	26	100	100

### The drive wheel:

The 6.50 x 16 tire (A) should be assembled with the blocks in the tractor opposite direction so that it locks and does not skid.

The spring (B) should be adjusted so as to grant seed-soil contact all the time, thus copying uneven ground easily. However, compression should not be excessive, as when the hydraulic system is activated to lift the machine, the wheel should also be lifted in order to stop transmission immediately.

A correct adjustment is achieved when the drive wheel touches the ground together with the row units and also raises at the same time as them.

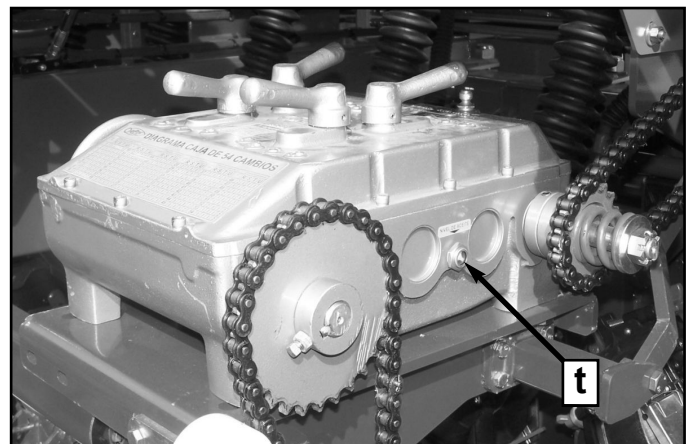


### Seed rate adjustment:

Seed rate is adjusted by means of a 54 shift oil-bathed gearbox.

Once the number of seeds /m to be seeded is defined, corroborate which is the appropriate gearshift to reach it. Place the levers corresponding to that shift.

**Advice:** In order to place gearshift levers properly, help yourself by moving the drive wheel manually.



**IMPORTANT:** Check oil level in the gearbox. The correct capacity is defined by the inspection plug (t)

The gearbox uses SAE 80W90 Oil - Hipoid transmission

The following diagram describes lever position according to shift number:

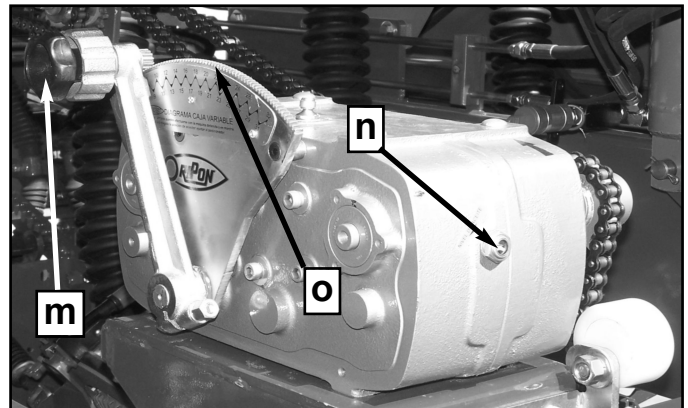
### 54 SHIFTS GEARBOX DIAGRAM

N °	Levers				N °	Levers				N °	Levers				N °	Levers				N °	Levers								
	R	S	T	U		R	S	T	U		R	S	T	U		R	S	T	U		R	S	T	U					
1	2	2	2	1	10	2	2	3	1	19	3	1	2	3	28	2	2	1	1	37	3	1	3	3	46	2	1	1	1
2	3	2	2	1	11	2	1	2	1	20	1	2	3	3	29	2	1	3	1	38	1	2	1	3	47	3	1	1	1
3	1	2	2	1	12	3	2	3	1	21	1	1	2	3	30	3	2	1	1	39	1	1	3	3	48	1	1	1	1
4	2	2	2	3	13	3	1	2	1	22	2	2	3	2	31	3	1	3	1	40	2	2	1	2	49	2	1	1	3
5	3	2	2	3	14	1	2	3	1	23	2	1	2	2	32	1	2	1	1	41	2	1	3	2	50	3	1	1	3
6	1	2	2	3	15	1	1	2	1	24	3	2	3	2	33	1	1	3	1	42	3	2	1	2	51	1	1	1	3
7	2	2	2	2	16	2	2	3	3	25	3	1	2	2	34	2	2	1	3	43	3	1	3	2	52	2	1	1	2
8	3	2	2	2	17	2	1	2	3	26	1	2	3	2	35	2	1	3	3	44	1	2	1	2	53	3	1	1	2
9	1	2	2	2	18	3	2	3	3	27	1	1	2	2	36	3	2	1	3	45	1	1	3	2	54	1	1	1	2

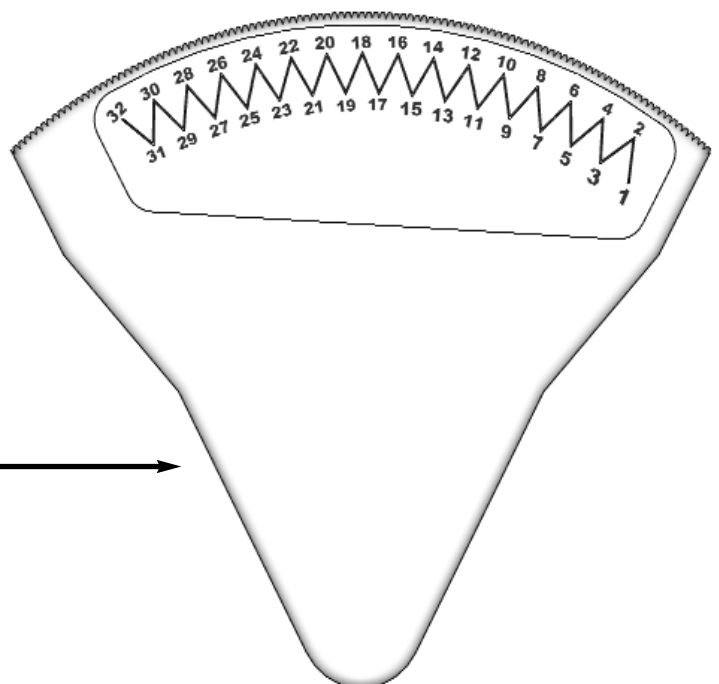
**Fertilizer rate adjustment:**

Fertilizer rate is adjusted by means of a speed variator which 32 official gearshifts, but the notched adjustment method (o) it owns, offers a wide range of options in-between shift 1 and shift 32.

In order to adjust, the amount desired in the hectare should be defined in the fertilizer chart, the shift number should be identified and the knob (m) should be turned until it is reached. All in-between options are up to the operator's discretion and experience.

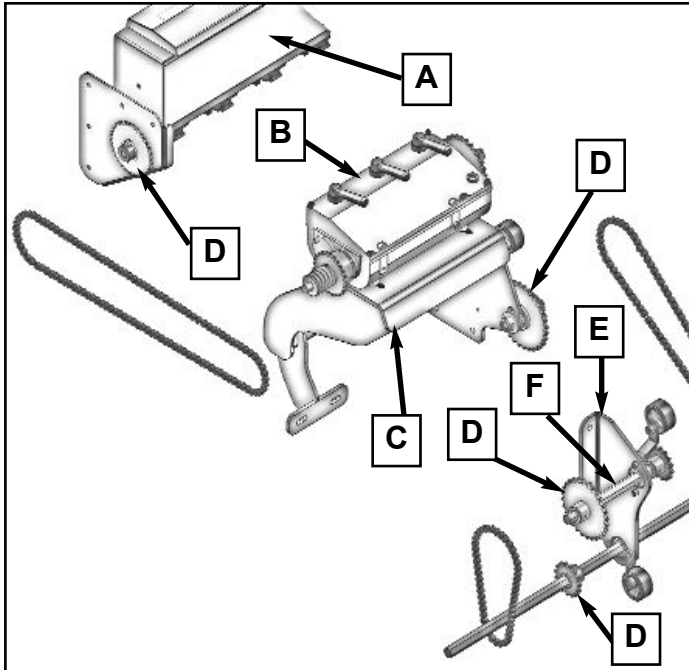


**IMPORTANT:** Check oil level in the variator. The correct capacity is defined by the inspection plug (n)  
The variator uses SAE 80W90 Oil - Hipoid transmission



The picture represents the variator notched adjustment changes:

**Grass seeding box:**



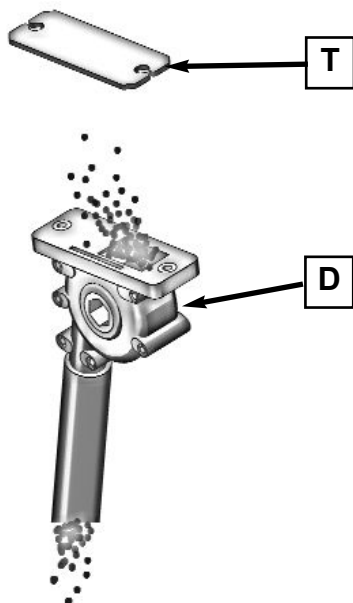
The picture shows, in outline, the necessary components to attach the grass seeding box to the machine:

- A- The box
- B- The 27 shift gearbox.
- C- The box support
- D- The sprockets
- E- The shaft support
- F- The countershaft

**Capacity:**

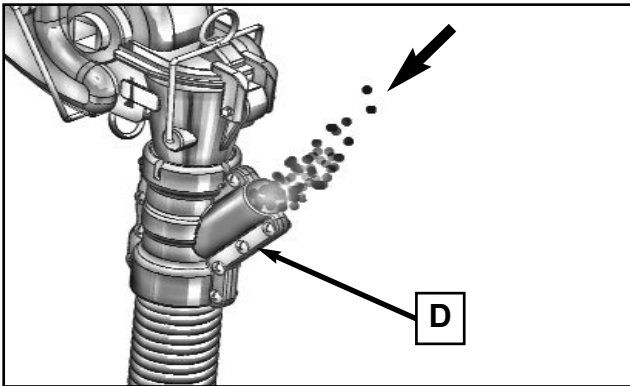
Model	Capacity
5m	159 litros
6m	192 litros
7m	224 litros
10m	318 litros
12m	384 litros

**The meter:**



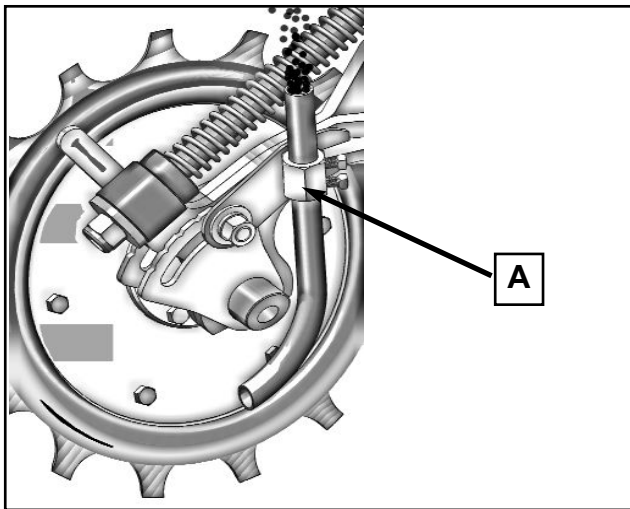
The helicoïdal fluted roller type meter (D) offers continuous metering. It has a cover (T) for cancelling lines.

**Delivery:**



**Option 1:**

The larger meter (D), with “chevron type” wheel, has a side fall nozzle, specifically positioned to couple the seed delivery hose, which goes down from the grass seeding box.



**Option 2:**

A component (A), made up of a support and a tube, is placed on the closing wheels. The seed delivery hose which goes down from the grass seeding box is coupled on this component.

**Seed rate adjustment:**

The box seed rate is adjusted by means of 27 shift gearbox.

The following chart describes lever position according to shift number

<b>27 SHIFT GEARBOX CHART</b>													
SHIFT NUMBER													
1	2	3	4	5	6	7	8	9	10	11	12	13	14
POSICION DE LAS PALANCAS													
IA1	IA2	IA3	IB1	IB2	IB3	IC1	IC2	IC3	IIA1	IIA2	IIA3	IIB1	IIB2
SHIFT NUMBER													
15	16	17	18	19	20	21	22	23	24	25	26	27	
LEVER POSITION													
IIB3	IIC1	IIC2	IIC3	IIIA1	IIIA2	IIIA3	IIIB1	IIIB2	IIIB3	IIIC1	IIIC2	IIIC3	

**About seed rates:**

The following charts contain basic advice.

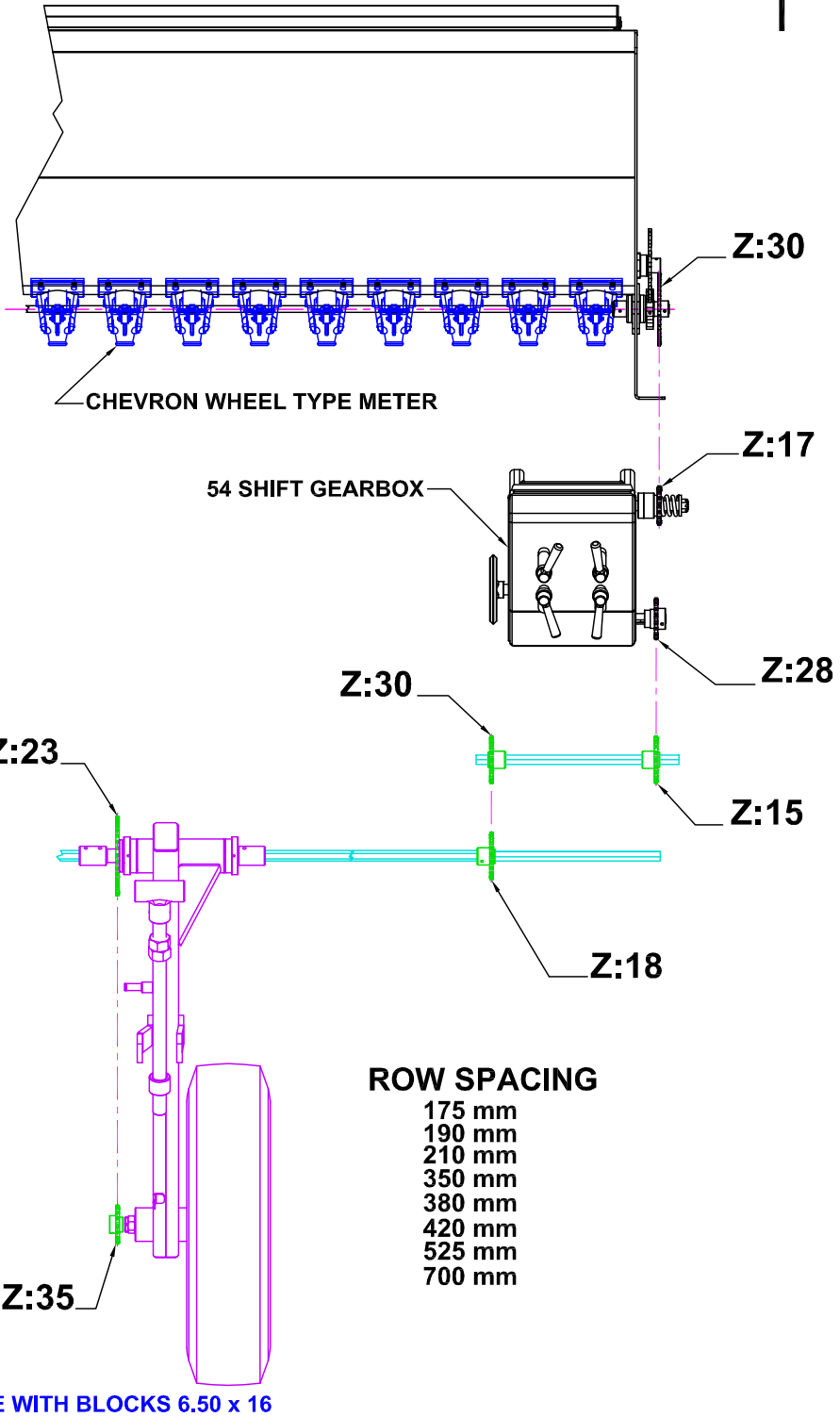
Variable factors such as seed quality, specific weight, added products, environment, inflation pressure of tires, seeding speed, etc.; can alter the real application values from the values shown on the seed/fertilizer charts.

Therefore, after the machine is accurately adjusted, it is recommended to test quantities.



# TRANSMISSION SEEDING WITH CHEVRON UNIT

MACHINE DRIVING  
DIRECTION



**54000 - SEED RATE CHART WITH CHEVRON UNIT **

"ORCHARDGRASS"

		Row spacing: 175mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	9,4	10	20,1	19	29,2	28	43,2	37	62,6	46	96,9
2	10,2	11	21,1	20	30,1	29	45,2	38	64,6	47	104,9
3	11,0	12	21,8	21	31,6	30	46,7	39	67,7	48	113,5
4	12,0	13	22,8	22	32,7	31	49,0	40	70,2	49	123,8
5	13,0	14	23,6	23	34,3	32	50,5	41	73,5	50	134,1
6	14,1	15	24,7	24	35,4	33	53,0	42	75,9	51	145,0
7	15,3	16	25,7	25	37,1	34	55,2	43	79,6	52	157,5
8	16,5	17	27,0	26	38,3	35	57,8	44	82,1	53	170,5
9	17,9	18	27,9	27	40,2	36	59,7	45	86,0	54	184,4

"FESCUE AND RYEGRASS"

		Row spacing: 175mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	15,9	10	34,0	19	49,3	28	72,9	37	105,6	46	163,5
2	17,2	11	35,6	20	50,9	29	76,3	38	109,0	47	177,0
3	18,6	12	36,8	21	53,3	30	78,9	39	114,2	48	191,5
4	20,3	13	38,6	22	55,2	31	82,6	40	118,4	49	209,0
5	21,9	14	39,8	23	57,9	32	85,3	41	124,0	50	226,2
6	23,7	15	41,7	24	59,8	33	89,4	42	128,2	51	244,7
7	25,8	16	43,4	25	62,7	34	93,1	43	134,3	52	265,8
8	27,9	17	45,5	26	64,7	35	97,5	44	138,6	53	287,7
9	30,2	18	47,0	27	67,8	36	100,8	45	145,2	54	311,1

**54000 - SEED RATE CHART WITH CHEVRON UNIT  APACHE**

"WHEAT"

		Row spacing: 175mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	28,9	10	62,0	19	89,8	28	132,8	37	192,4	46	298,0
2	31,3	11	64,9	20	92,7	29	139,1	38	198,6	47	322,6
3	33,8	12	67,1	21	97,1	30	143,7	39	208,0	48	348,9
4	36,9	13	70,3	22	100,7	31	150,6	40	215,7	49	380,8
5	40,0	14	72,5	23	105,5	32	155,4	41	226,0	50	412,2
6	43,2	15	76,0	24	109,0	33	162,8	42	233,5	51	445,8
7	47,0	16	79,2	25	114,2	34	169,6	43	244,6	52	484,3
8	50,9	17	82,9	26	117,9	35	177,7	44	252,6	53	524,2
9	55,0	18	85,7	27	123,5	36	183,6	45	264,6	54	567,0

"OATS"

		Row spacing: 175mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	16,5	10	35,3	19	51,1	28	75,5	37	109,5	46	169,6
2	17,8	11	36,9	20	52,7	29	79,1	38	113,0	47	183,6
3	19,3	12	38,2	21	55,3	30	81,8	39	118,4	48	198,6
4	21,0	13	40,0	22	57,3	31	85,7	40	122,8	49	216,7
5	22,8	14	41,3	23	60,0	32	88,5	41	128,6	50	234,6
6	24,6	15	43,2	24	62,0	33	92,7	42	132,9	51	253,7
7	26,7	16	45,0	25	65,0	34	96,5	43	139,2	52	275,6
8	28,9	17	47,2	26	67,1	35	101,1	44	143,7	53	298,3
9	31,3	18	48,8	27	70,3	36	104,5	45	150,6	54	322,7

**54000 - SEED RATE CHART WITH CHEVRON UNIT  APACHE**

"SOYBEAN"

		Row spacing: 175mm									Row spacing: 175mm								
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha		
1	27,5	10	58,9	19	85,4	28	126,3	37	183,0	46	283,5	37	183,0	46	283,5	37	183,0		
2	29,8	11	61,7	20	88,2	29	132,3	38	188,9	47	306,9	38	188,9	47	306,9	38	188,9		
3	32,2	12	63,8	21	92,4	30	136,7	39	197,9	48	331,9	39	197,9	48	331,9	39	197,9		
4	35,1	13	66,8	22	95,8	31	143,2	40	205,2	49	362,2	40	205,2	49	362,2	40	205,2		
5	38,0	14	69,0	23	100,3	32	147,8	41	215,0	50	392,1	41	215,0	50	392,1	41	215,0		
6	41,1	15	72,3	24	103,7	33	154,9	42	222,1	51	424,1	42	222,1	51	424,1	42	222,1		
7	44,7	16	75,3	25	108,6	34	161,4	43	232,7	52	460,6	43	232,7	52	460,6	43	232,7		
8	48,4	17	78,9	26	112,1	35	169,0	44	240,2	53	498,7	44	240,2	53	498,7	44	240,2		
9	52,3	18	81,5	27	117,4	36	174,7	45	251,7	54	539,3	45	251,7	54	539,3	45	251,7		
<b>"BIRDSEED"</b>																			
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha		
1	33,5	10	71,8	19	104,0	28	153,8	37	222,9	46	345,3	37	222,9	46	345,3	37	222,9		
2	36,3	11	75,2	20	107,4	29	161,1	38	230,1	47	373,8	38	230,1	47	373,8	38	230,1		
3	39,2	12	77,7	21	112,5	30	166,5	39	241,0	48	404,2	39	241,0	48	404,2	39	241,0		
4	42,8	13	81,4	22	116,6	31	174,4	40	249,9	49	441,2	40	249,9	49	441,2	40	249,9		
5	46,3	14	84,0	23	122,2	32	180,1	41	261,8	50	477,6	41	261,8	50	477,6	41	261,8		
6	50,1	15	88,0	24	126,3	33	188,6	42	270,5	51	516,5	42	270,5	51	516,5	42	270,5		
7	54,4	16	91,7	25	132,3	34	196,5	43	283,4	52	561,0	43	283,4	52	561,0	43	283,4		
8	58,9	17	96,1	26	136,5	35	205,9	44	292,6	53	607,4	44	292,6	53	607,4	44	292,6		
9	63,7	18	99,3	27	143,0	36	212,7	45	306,5	54	656,9	45	306,5	54	656,9	45	306,5		

**54000 - SEED RATE CHART WITH CHEVRON UNIT  APACHE**
**"BARLEY"**

SHIFT	Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha	
	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	10	18,8	19	40,3	28	58,4	37	86,3	46	125,1	55	193,8	64	272,6
2	11	20,4	20	42,2	29	60,3	38	90,5	47	129,2	56	209,8	65	299,0
3	12	22,0	21	43,6	30	63,1	39	93,5	48	135,3	57	226,9	66	316,7
4	13	24,0	22	45,7	31	65,5	40	97,9	49	140,3	58	247,7	67	341,0
5	14	26,0	23	47,2	32	68,6	41	101,1	50	147,0	59	268,1	68	368,8
6	15	28,1	24	49,4	33	70,9	42	105,9	51	151,9	60	290,0	69	395,9
7	16	30,6	25	51,5	34	74,3	43	110,3	52	159,1	61	315,0	70	423,0
8	17	33,1	26	53,9	35	76,7	44	115,6	53	164,3	62	341,0	71	450,1
9	18	35,8	27	55,7	36	80,3	45	119,4	54	172,1	63	368,8	72	477,2

**"CRESTED WHEAT GRASS"**


SHIFT	Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha	
	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	10	10,0	19	21,4	28	31,0	37	45,9	46	66,5	55	103,0	64	149,6
2	11	10,8	20	22,4	29	32,0	38	48,1	47	68,6	56	111,5	65	162,4
3	12	11,7	21	23,2	30	33,5	39	49,7	48	71,9	57	120,6	66	175,3
4	13	12,8	22	24,3	31	34,8	40	52,0	49	74,5	58	131,6	67	188,2
5	14	13,8	23	25,1	32	36,4	41	53,7	50	78,1	59	142,4	68	201,1
6	15	14,9	24	26,3	33	37,7	42	56,3	51	80,7	60	154,0	69	214,0
7	16	16,2	25	27,4	34	39,4	43	58,6	52	84,5	61	167,3	70	226,9
8	17	17,6	26	28,7	35	40,7	44	61,4	53	87,3	62	181,1	71	240,1
9	18	19,0	27	29,6	36	42,7	45	63,4	54	91,4	63	195,9	72	253,0

**54000 - SEED RATE CHART WITH CHEVRON UNIT  APACHE**
**"BROMUS"**

		Row spacing: 175mm									"LENTIL"								
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha		
1	16,5	10	35,3	19	51,1	28	75,5	37	109,5	46	169,6								
2	17,8	11	36,9	20	52,7	29	79,1	38	113,0	47	183,6								
3	19,3	12	38,2	21	55,3	30	81,8	39	118,4	48	198,6								
4	21,0	13	40,0	22	57,3	31	85,7	40	122,8	49	216,7								
5	22,8	14	41,3	23	60,0	32	88,5	41	128,6	50	234,6								
6	24,6	15	43,2	24	62,0	33	92,7	42	132,9	51	253,7								
7	26,7	16	45,0	25	65,0	34	96,5	43	139,2	52	275,6								
8	28,9	17	47,2	26	67,1	35	101,1	44	143,7	53	298,3								
9	31,3	18	48,8	27	70,3	36	104,5	45	150,6	54	322,7								
		Row spacing: 175mm									"LENTIL"								
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha		
1	22,9	10	49,1	19	71,2	28	105,2	37	152,5	46	236,2								
2	24,8	11	51,4	20	73,5	29	110,2	38	157,4	47	255,7								
3	26,8	12	53,2	21	77,0	30	113,9	39	164,9	48	276,6								
4	29,3	13	55,7	22	79,8	31	119,3	40	171,0	49	301,8								
5	31,7	14	57,5	23	83,6	32	123,2	41	179,1	50	326,8								
6	34,3	15	60,2	24	86,4	33	129,1	42	185,1	51	353,4								
7	37,2	16	62,7	25	90,5	34	134,5	43	193,9	52	383,9								
8	40,3	17	65,7	26	93,4	35	140,9	44	200,2	53	415,6								
9	43,6	18	67,9	27	97,9	36	145,6	45	209,7	54	449,4								

**NOTE:**

The following chart -sorghum-rye at 175 mm - is achieved with a seed rate reducer attachment

<b>54000 - SEED RATE CHART WITH CHEVRON UNIT  APACHE</b>												<b>"SORGHUM &amp; RYE"</b>		
												<b>Row spacing: 175mm</b>		
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	
1	11,4	10	24,5	19	35,5	28	52,5	37	76,0	46	117,8			
2	12,4	11	25,6	20	36,6	29	55,0	38	78,5	47	127,5			
3	13,4	12	26,5	21	38,4	30	56,8	39	82,2	48	137,9			
4	14,6	13	27,8	22	39,8	31	59,5	40	85,2	49	150,5			
5	15,8	14	28,7	23	41,7	32	61,4	41	89,3	50	162,9			
6	17,1	15	30,0	24	43,1	33	64,3	42	92,3	51	176,2			
7	18,6	16	31,3	25	45,1	34	67,0	43	96,7	52	191,3			
8	20,1	17	32,8	26	46,6	35	70,2	44	99,8	53	207,1			
9	21,7	18	33,9	27	48,8	36	72,6	45	104,5	54	224,0			





**54000 - SEED RATE CHART WITH CHEVRON UNIT  APACHE**

"WHEAT"

SHIFT	Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha	
	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	26,6	10	57,1	19	82,7	28	122,3	37	177,2	46	274,5	Row spacing: 191mm						
2	28,8	11	59,8	20	85,4	29	128,1	38	182,9	47	297,1							
3	31,2	12	61,8	21	89,4	30	132,4	39	191,6	48	321,4							
4	34,0	13	64,7	22	92,7	31	138,7	40	198,7	49	350,7							
5	36,8	14	66,8	23	97,1	32	143,2	41	208,2	50	379,7							
6	39,8	15	70,0	24	100,4	33	150,0	42	215,1	51	410,6							
7	43,3	16	72,9	25	105,2	34	156,2	43	225,3	52	446,0							
8	46,8	17	76,4	26	108,6	35	163,7	44	232,6	53	482,9							
9	50,7	18	78,9	27	113,7	36	169,1	45	243,7	54	522,2							

"OATS"

SHIFT	Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha	
	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	15,2	10	32,5	19	47,1	28	69,6	37	100,8	46	156,2	Row spacing: 191mm						
2	16,4	11	34,0	20	48,6	29	72,9	38	104,1	47	169,1							
3	17,7	12	35,2	21	50,9	30	75,3	39	109,1	48	182,9							
4	19,4	13	36,8	22	52,8	31	78,9	40	113,1	49	199,6							
5	21,0	14	38,0	23	55,3	32	81,5	41	118,5	50	216,1							
6	22,7	15	39,8	24	57,1	33	85,3	42	122,4	51	233,7							
7	24,6	16	41,5	25	59,8	34	88,9	43	128,2	52	253,8							
8	26,7	17	43,5	26	61,8	35	93,1	44	132,4	53	274,8							
9	28,8	18	44,9	27	64,7	36	96,3	45	138,7	54	297,2							

**54000 - SEED RATE CHART WITH CHEVRON UNIT  APACHE**

										<b>"LENTIL"</b>											
										<b>Row spacing: 191mm</b>											
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha		
1	21,1	10	45,2	19	65,5	28	96,9	37	140,5	46	217,6	55	325,5	64	413,9	73	501,0	82	588,1	91	675,2
2	22,8	11	47,4	20	67,7	29	101,5	38	145,0	47	235,5	56	343,6	65	430,7	74	516,6	83	604,1	92	691,6
3	24,7	12	49,0	21	70,9	30	104,9	39	151,9	48	254,7	57	362,7	66	459,7	75	545,7	84	633,7	93	720,7
4	27,0	13	51,3	22	73,5	31	109,9	40	157,5	49	278,0	58	391,0	67	488,0	76	576,0	85	664,0	94	751,0
5	29,2	14	53,0	23	77,0	32	113,5	41	165,0	50	301,0	59	413,5	68	513,5	77	606,5	86	696,5	95	781,5
6	31,6	15	55,5	24	79,6	33	118,9	42	170,5	51	325,5	60	440,0	69	540,0	78	639,0	87	729,0	96	812,0
7	34,3	16	57,8	25	83,4	34	123,8	43	178,6	52	353,6	61	466,6	70	566,6	79	666,6	88	766,6	97	842,6
8	37,1	17	60,5	26	86,1	35	129,7	44	184,4	53	382,7	62	493,2	71	593,2	80	693,2	89	793,2	98	893,2
9	40,2	18	62,6	27	90,1	36	134,1	45	193,2	54	413,9	63	520,7	72	620,7	81	720,7	90	820,7	99	920,7
										<b>"ORCHARDGRASS"</b>											
										<b>Row spacing: 191mm</b>											
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha		
1	8,7	10	18,6	19	26,9	28	39,8	37	57,6	46	89,3	55	133,5	64	204,5	73	301,0	82	441,6	91	651,7
2	9,4	11	19,4	20	27,8	29	41,7	38	59,5	47	96,6	56	145,1	65	220,2	74	333,3	83	493,3	92	723,3
3	10,1	12	20,1	21	29,1	30	43,0	39	62,3	48	104,5	57	164,5	66	244,5	75	364,5	84	534,5	93	794,5
4	11,1	13	21,0	22	30,2	31	45,1	40	64,6	49	114,1	58	174,1	67	264,1	76	394,1	85	584,1	94	864,1
5	12,0	14	21,7	23	31,6	32	46,6	41	67,7	50	123,5	59	183,5	68	273,5	77	413,5	86	603,5	95	893,5
6	13,0	15	22,8	24	32,6	33	48,8	42	69,9	51	133,5	60	193,5	69	293,5	78	443,5	87	653,5	96	963,5
7	14,1	16	23,7	25	34,2	34	50,8	43	73,3	52	145,1	61	213,1	70	323,1	79	483,1	88	713,1	97	1063,1
8	15,2	17	24,8	26	35,3	35	53,2	44	75,6	53	157,0	62	233,0	71	353,0	80	523,0	89	773,0	98	1153,0
9	16,5	18	25,7	27	37,0	36	55,0	45	79,3	54	169,8	63	253,0	72	383,0	81	563,0	90	823,0	99	1243,0

**54000 - SEED RATE CHART WITH CHEVRON UNIT**

**"BROMUS"**

		Row spacing: 191mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	15,2	10	32,5	19	47,1	28	69,6	37	100,8	46	156,2
2	16,4	11	34,0	20	48,6	29	72,9	38	104,1	47	169,1
3	17,7	12	35,2	21	50,9	30	75,3	39	109,1	48	182,9
4	19,4	13	36,8	22	52,8	31	78,9	40	113,1	49	199,6
5	21,0	14	38,0	23	55,3	32	81,5	41	118,5	50	216,1
6	22,7	15	39,8	24	57,1	33	85,3	42	122,4	51	233,7
7	24,6	16	41,5	25	59,8	34	88,9	43	128,2	52	253,8
8	26,7	17	43,5	26	61,8	35	93,1	44	132,4	53	274,8
9	28,8	18	44,9	27	64,7	36	96,3	45	138,7	54	297,2
		"BIRDSEED"									
		Row spacing: 191mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	30,8	10	66,1	19	95,8	28	141,7	37	205,3	46	318,0
2	33,4	11	69,3	20	98,9	29	148,4	38	211,9	47	344,2
3	36,1	12	71,6	21	103,6	30	153,3	39	222,0	48	372,3
4	39,4	13	75,0	22	107,4	31	160,6	40	230,2	49	406,3
5	42,7	14	77,4	23	112,5	32	165,8	41	241,1	50	439,9
6	46,1	15	81,1	24	116,3	33	173,7	42	249,2	51	475,7
7	50,1	16	84,5	25	121,8	34	181,0	43	261,1	52	516,7
8	54,3	17	88,5	26	125,8	35	189,6	44	269,5	53	559,4
9	58,7	18	91,4	27	131,8	36	195,9	45	282,3	54	605,0


**54000 - SEED RATE CHART WITH CHEVRON UNIT**
**"BARLEY"**

		Row spacing: 191mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	17,3	10	37,1	19	53,8	28	79,5	37	115,2	46	178,5
2	18,7	11	38,9	20	55,5	29	83,3	38	119,0	47	193,3
3	20,3	12	40,2	21	58,2	30	86,1	39	124,6	48	209,0
4	22,1	13	42,1	22	60,3	31	90,2	40	129,2	49	228,1
5	24,0	14	43,4	23	63,2	32	93,1	41	135,4	50	246,9
6	25,9	15	45,5	24	65,3	33	97,5	42	139,9	51	267,1
7	28,1	16	47,4	25	68,4	34	101,6	43	146,6	52	290,1
8	30,5	17	49,7	26	70,6	35	106,5	44	151,3	53	314,1
9	32,9	18	51,3	27	74,0	36	110,0	45	158,5	54	339,6
		"CRESTED WHEAT GRASS"									
		Row spacing: 191mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	9,2	10	19,7	19	28,6	28	42,2	37	61,2	46	94,8
2	10,0	11	20,7	20	29,5	29	44,3	38	63,2	47	102,7
3	10,8	12	21,3	21	30,9	30	45,7	39	66,2	48	111,0
4	11,8	13	22,4	22	32,0	31	47,9	40	68,7	49	121,2
5	12,7	14	23,1	23	33,6	32	49,5	41	71,9	50	131,2
6	13,8	15	24,2	24	34,7	33	51,8	42	74,3	51	141,9
7	15,0	16	25,2	25	36,3	34	54,0	43	77,9	52	154,1
8	16,2	17	26,4	26	37,5	35	56,6	44	80,4	53	166,8
9	17,5	18	27,3	27	39,3	36	58,4	45	84,2	54	180,4

**NOTE:**

The following chart -sorghum-rye at 191 mm - is achieved with a seed rate reducer attachment


<b>54000 - SEED RATE CHART WITH CHEVRON UNIT</b>										<b>APACHE</b>				<b>"SORGHUM &amp; RYE"</b>			
														Row spacing: 191mm			
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha		
1	10,5	10	22,5	19	32,7	28	48,3	37	70,0	46	108,5						
2	11,4	11	23,6	20	33,7	29	50,6	38	72,3	47	117,4						
3	12,3	12	24,4	21	35,3	30	52,3	39	75,7	48	127,0						
4	13,4	13	25,6	22	36,6	31	54,8	40	78,5	49	138,6						
5	14,6	14	26,4	23	38,4	32	56,6	41	82,2	50	150,0						
6	15,7	15	27,7	24	39,7	33	59,3	42	85,0	51	162,2						
7	17,1	16	28,8	25	41,5	34	61,7	43	89,0	52	176,2						
8	18,5	17	30,2	26	42,9	35	64,7	44	91,9	53	190,8						
9	20,0	18	31,2	27	44,9	36	66,8	45	96,3	54	206,3						

**54000 - SEED RATE CHART WITH CHEVRON UNIT****"FESCUE AND RYEGRASS"**

SHIFT	Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha	
	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	10	13,2	19	28,3	28	41,1	37	60,7	46	88,0	46	136,3
2	11	14,3	20	29,7	29	42,4	38	63,6	47	90,8	47	147,5
3	12	15,5	21	30,7	30	44,4	39	65,7	48	95,1	48	159,6
4	13	16,9	22	32,1	31	46,0	40	68,8	49	98,7	49	174,1
5	14	18,3	23	33,2	32	48,2	41	71,1	50	103,3	50	188,5
6	15	19,8	24	34,7	33	49,8	42	74,5	51	106,8	51	203,9
7	16	21,5	25	36,2	34	52,2	43	77,6	52	111,9	52	221,5
8	17	23,3	26	37,9	35	53,9	44	81,3	53	115,5	53	239,7
9	18	25,2	27	39,2	36	56,5	45	84,0	54	121,0	54	259,3

**"SOYBEAN"**

SHIFT	Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha		Kg/Ha	
	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	10	22,9	19	49,1	28	71,2	37	105,2	46	152,5	46	236,2
2	11	24,8	20	51,4	29	73,5	38	110,2	47	157,4	47	255,7
3	12	26,8	21	53,2	30	77,0	39	113,9	48	164,9	48	276,6
4	13	29,3	22	55,7	31	79,8	40	119,3	49	171,0	49	301,8
5	14	31,7	23	57,5	32	83,6	41	123,2	50	179,1	50	326,8
6	15	34,3	24	60,2	33	86,4	42	129,1	51	185,1	51	353,4
7	16	37,2	25	62,7	34	90,5	43	134,5	52	193,9	52	383,9
8	17	40,3	26	65,7	35	93,4	44	140,9	53	200,2	53	415,6
9	18	43,6	27	67,9	36	97,9	45	145,6	54	209,7	54	449,4

<b>54000 - SEED RATE CHART WITH CHEVRON UNIT </b>										<b>"WHEAT"</b>	
										<b>Row spacing: 210mm</b>	
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
1	24,1	10	51,6	19	74,8	28	110,6	37	160,3	46	248,3
2	26,1	11	54,1	20	77,2	29	115,9	38	165,5	47	268,8
3	28,2	12	55,9	21	80,9	30	119,8	39	173,4	48	290,8
4	30,8	13	58,5	22	83,9	31	125,5	40	179,8	49	317,3
5	33,3	14	60,4	23	87,9	32	129,5	41	188,3	50	343,5
6	36,0	15	63,3	24	90,8	33	135,7	42	194,6	51	371,5
7	39,1	16	66,0	25	95,1	34	141,4	43	203,9	52	403,6
8	42,4	17	69,1	26	98,2	35	148,1	44	210,5	53	436,9
9	45,8	18	71,4	27	102,9	36	153,0	45	220,5	54	472,5
										<b>"OATS"</b>	
										<b>Row spacing: 210mm</b>	
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
1	13,7	10	29,4	19	42,6	28	63,0	37	91,2	46	141,3
2	14,8	11	30,8	20	44,0	29	66,0	38	94,2	47	153,0
3	16,1	12	31,8	21	46,0	30	68,2	39	98,7	48	165,5
4	17,5	13	33,3	22	47,7	31	71,4	40	102,3	49	180,6
5	19,0	14	34,4	23	50,0	32	73,7	41	107,2	50	195,5
6	20,5	15	36,0	24	51,7	33	77,2	42	110,8	51	211,4
7	22,3	16	37,5	25	54,1	34	80,4	43	116,0	52	229,7
8	24,1	17	39,3	26	55,9	35	84,3	44	119,8	53	248,6
9	26,1	18	40,6	27	58,6	36	87,1	45	125,5	54	268,9

**54000 - SEED RATE CHART WITH CHEVRON UNIT  APACHE**
**"LENTIL"**

SHIFT	Row spacing: 210mm		
	Kg/Ha	SHIFT	Kg/Ha
1	19,1	10	127,1
2	20,7	11	131,2
3	22,4	12	137,4
4	24,4	13	142,5
5	26,4	14	149,3
6	28,6	15	154,3
7	31,0	16	161,6
8	33,6	17	166,8
9	36,3	18	174,8

**"ORCHARDGRASS"**

SHIFT	Row spacing: 191mm		
	Kg/Ha	SHIFT	Kg/Ha
1	7,8	10	52,1
2	8,5	11	53,8
3	9,2	12	56,4
4	10,0	13	58,5
5	10,8	14	61,2
6	11,7	15	63,3
7	12,7	16	66,3
8	13,8	17	68,4
9	14,9	18	71,7



**54000 - SEED RATE CHART WITH CHEVRON UNIT****"BARLEY"**

		<b>Row spacing: 210mm</b>									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	15,7	10	33,6	19	48,7	28	72,0	37	104,3	46	161,5
2	17,0	11	35,2	20	50,2	29	75,4	38	107,6	47	174,9
3	18,3	12	36,3	21	52,6	30	77,9	39	112,8	48	189,1
4	20,0	13	38,1	22	54,6	31	81,6	40	116,9	49	206,4
5	21,7	14	39,3	23	57,2	32	84,2	41	122,5	50	223,4
6	23,4	15	41,2	24	59,1	33	88,3	42	126,6	51	241,6
7	25,5	16	42,9	25	61,9	34	91,9	43	132,6	52	262,5
8	27,6	17	44,9	26	63,9	35	96,3	44	136,9	53	284,1
9	29,8	18	46,4	27	66,9	36	99,5	45	143,4	54	307,3
<b>"CRESTED WHEAT GRASS"</b>											
		<b>Row spacing: 210mm</b>									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	8,3	10	17,8	19	25,8	28	38,2	37	55,4	46	85,8
2	9,0	11	18,7	20	26,7	29	40,0	38	57,2	47	92,9
3	9,7	12	19,3	21	28,0	30	41,4	39	59,9	48	100,5
4	10,6	13	20,2	22	29,0	31	43,3	40	62,1	49	109,6
5	11,5	14	20,9	23	30,4	32	44,8	41	65,1	50	118,7
6	12,5	15	21,9	24	31,4	33	46,9	42	67,2	51	128,4
7	13,5	16	22,8	25	32,9	34	48,8	43	70,4	52	139,4
8	14,6	17	23,9	26	33,9	35	51,2	44	72,7	53	150,9
9	15,8	18	24,7	27	35,6	36	52,9	45	76,2	54	163,3


**54000 - SEED RATE CHART WITH CHEVRON UNIT**
**"BROMUS"**

		Row spacing: 210mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	13,7	10	29,4	19	42,6	28	63,0	37	91,2	46	141,3
2	14,8	11	30,8	20	44,0	29	66,0	38	94,2	47	153,0
3	16,1	12	31,8	21	46,0	30	68,2	39	98,7	48	165,5
4	17,5	13	33,3	22	47,7	31	71,4	40	102,3	49	180,6
5	19,0	14	34,4	23	50,0	32	73,7	41	107,2	50	195,5
6	20,5	15	36,0	24	51,7	33	77,2	42	110,8	51	211,4
7	22,3	16	37,5	25	54,1	34	80,4	43	116,0	52	229,7
8	24,1	17	39,3	26	55,9	35	84,3	44	119,8	53	248,6
9	26,1	18	40,6	27	58,6	36	87,1	45	125,5	54	268,9
		"BIRDGRASS"									
		Row spacing: 210mm									
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	27,9	10	59,8	19	86,7	28	128,2	37	185,7	46	287,7
2	30,2	11	62,7	20	89,5	29	134,3	38	191,7	47	311,5
3	32,7	12	64,7	21	93,7	30	138,7	39	200,9	48	336,8
4	35,7	13	67,8	22	97,2	31	145,3	40	208,3	49	367,6
5	38,6	14	70,0	23	101,8	32	150,1	41	218,2	50	398,0
6	41,8	15	73,4	24	105,2	33	157,2	42	225,5	51	430,4
7	45,4	16	76,4	25	110,2	34	163,8	43	236,2	52	467,5
8	49,1	17	80,1	26	113,8	35	171,6	44	243,8	53	506,1
9	53,1	18	82,7	27	119,2	36	177,3	45	255,4	54	547,4

**54000 - SEED RATE CHART WITH CHEVRON UNIT**



**"WHEAT"**

		"WHEAT"									
		Row spacing: 350mm					Row spacing: 350mm				
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	14,5	10	31,0	19	44,9	28	66,4	37	96,2	46	149,0
2	15,6	11	32,5	20	46,3	29	69,5	38	99,3	47	161,3
3	16,9	12	33,5	21	48,5	30	71,9	39	104,0	48	174,5
4	18,5	13	35,1	22	50,3	31	75,3	40	107,9	49	190,4
5	20,0	14	36,3	23	52,7	32	77,7	41	113,0	50	206,1
6	21,6	15	38,0	24	54,5	33	81,4	42	116,8	51	222,9
7	23,5	16	39,6	25	57,1	34	84,8	43	122,3	52	242,1
8	25,4	17	41,5	26	58,9	35	88,9	44	126,3	53	262,1
9	27,5	18	42,8	27	61,7	36	91,8	45	132,3	54	283,5
<b>"SOYBEAN"</b>											
		Row spacing: 350mm					Row spacing: 350mm				
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	13,7	10	29,5	19	42,7	28	63,1	37	91,5	46	141,7
2	14,9	11	30,9	20	44,1	29	66,1	38	94,5	47	153,4
3	16,1	12	31,9	21	46,2	30	68,3	39	99,0	48	165,9
4	17,6	13	33,4	22	47,9	31	71,6	40	102,6	49	181,1
5	19,0	14	34,5	23	50,2	32	73,9	41	107,5	50	196,1
6	20,6	15	36,1	24	51,8	33	77,4	42	111,1	51	212,0
7	22,3	16	37,6	25	54,3	34	80,7	43	116,4	52	230,3
8	24,2	17	39,4	26	56,1	35	84,5	44	120,1	53	249,3
9	26,2	18	40,8	27	58,7	36	87,3	45	125,8	54	269,7
<b>"SORGHUM"</b>											
		Row spacing: 350mm					Row spacing: 350mm				
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	15,9	10	34,0	19	49,3	28	72,9	37	105,6	46	163,5
2	17,2	11	35,6	20	50,9	29	76,3	38	109,0	47	177,0
3	18,6	12	36,8	21	53,3	30	78,9	39	114,2	48	191,5
4	20,3	13	38,6	22	55,2	31	82,6	40	118,4	49	209,0
5	21,9	14	39,8	23	57,9	32	85,3	41	124,0	50	226,2
6	23,7	15	41,7	24	59,8	33	89,4	42	128,2	51	244,7
7	25,8	16	43,4	25	62,7	34	93,1	43	134,3	52	265,8
8	27,9	17	45,5	26	64,7	35	97,5	44	138,6	53	287,7
9	30,2	18	47,0	27	67,8	36	100,8	45	145,2	54	311,1




**54000 - SEED RATE CHART WITH CHEVRON UNIT**
**"SOYBEAN"**

SHIFT	Row spacing: 420mm			Row spacing: 420mm							
	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT					
1	11,5	10	24,6	19	35,6	28	52,6	37	76,2	46	118,1
2	12,4	11	25,7	20	36,7	29	55,1	38	78,7	47	127,9
3	13,4	12	26,6	21	38,5	30	57,0	39	82,5	48	138,3
4	14,6	13	27,8	22	39,9	31	59,7	40	85,5	49	150,9
5	15,8	14	28,7	23	41,8	32	61,6	41	89,6	50	163,4
6	17,1	15	30,1	24	43,2	33	64,5	42	92,6	51	176,7
7	18,6	16	31,4	25	45,2	34	67,2	43	97,0	52	191,9
8	20,2	17	32,9	26	46,7	35	70,4	44	100,1	53	207,8
9	21,8	18	34,0	27	48,9	36	72,8	45	104,9	54	224,7

**"SORGHUM"**

SHIFT	Row spacing: 420mm			Row spacing: 420mm							
	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT					
1	13,2	10	28,3	19	41,1	28	60,7	37	88,0	46	136,3
2	14,3	11	29,7	20	42,4	29	63,6	38	90,8	47	147,5
3	15,5	12	30,7	21	44,4	30	65,7	39	95,1	48	159,6
4	16,9	13	32,1	22	46,0	31	68,8	40	98,7	49	174,1
5	18,3	14	33,2	23	48,2	32	71,1	41	103,3	50	188,5
6	19,8	15	34,7	24	49,8	33	74,5	42	106,8	51	203,9
7	21,5	16	36,2	25	52,2	34	77,6	43	111,9	52	221,5
8	23,3	17	37,9	26	53,9	35	81,3	44	115,5	53	239,7
9	25,2	18	39,2	27	56,5	36	84,0	45	121,0	54	259,3

**54000 - SEED RATE CHART WITH CHEVRON UN  APACHE**

**"SOYBEAN"**

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
1	9,2	10
2	9,9	11
3	10,7	12
4	11,7	13
5	12,7	14
6	13,7	15
7	14,9	16
8	16,1	17
9	17,4	18

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
10	19,6	19
20	20,6	20
21	21,3	21
22	22,3	22
23	23,0	23
24	24,1	24
25	25,1	25
26	26,3	26
27	27,2	27

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
28	28,5	28
29	29,4	29
30	30,8	30
31	31,9	31
32	33,4	32
33	34,6	33
34	36,2	34
35	37,4	35
36	39,1	36

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
37	42,1	37
38	44,1	38
39	45,6	39
40	47,7	40
41	49,3	41
42	51,6	42
43	53,8	43
44	56,3	44
45	58,2	45

**"SORGHUM"**

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
1	10,6	10
2	11,4	11
3	12,4	12
4	13,5	13
5	14,6	14
6	15,8	15
7	17,2	16
8	18,6	17
9	20,1	18

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
19	22,7	19
20	23,7	20
21	24,5	21
22	25,7	22
23	26,5	23
24	27,8	24
25	29,0	25
26	30,3	26
27	31,4	27

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
28	32,8	28
29	33,9	29
30	35,5	30
31	36,8	31
32	38,6	32
33	39,9	33
34	41,8	34
35	43,1	35
36	45,2	36

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
37	48,6	37
38	50,9	38
39	52,6	39
40	55,1	40
41	56,9	41
42	59,6	42
43	62,1	43
44	65,0	44
45	67,2	45

**"CORN"**

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
1	8,8	10
2	9,5	11
3	10,3	12
4	11,3	13
5	12,2	14
6	13,2	15
7	14,3	16
8	15,5	17
9	16,8	18

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
19	18,9	19
20	19,8	20
21	20,4	21
22	21,4	22
23	22,1	23
24	23,2	24
25	24,1	25
26	25,3	26
27	26,1	27

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
28	27,4	28
29	28,3	29
30	29,6	30
31	30,7	31
32	32,2	32
33	33,2	33
34	34,8	34
35	35,9	35
36	37,6	36

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
37	40,5	37
38	42,4	38
39	43,8	39
40	45,9	40
41	47,4	41
42	49,6	42
43	51,7	43
44	54,2	44
45	56,0	45

SHIFT	Row spacing: 525mm	
	Kg/Ha	SHIFT
46	58,6	46
47	60,5	47
48	63,4	48
49	65,8	49
50	68,9	50
51	71,2	51
52	74,6	52
53	77,0	53
54	80,7	54

**54000 - SEED RATE CHART WITH CHEVRON UN  APACHE**

**"SOYBEAN"**

SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	6,9	10	14,7	19	21,3	28	31,6	37	45,7	46	70,9	47	76,7
2	7,4	11	15,4	20	22,0	29	33,1	38	47,2	47	76,7	48	83,0
3	8,0	12	15,9	21	23,1	30	34,2	39	49,5	48	83,0	49	90,6
4	8,8	13	16,7	22	23,9	31	35,8	40	51,3	49	90,6	50	98,0
5	9,5	14	17,2	23	25,1	32	37,0	41	53,7	50	98,0	51	106,0
6	10,3	15	18,1	24	25,9	33	38,7	42	55,5	51	106,0	52	115,2
7	11,2	16	18,8	25	27,1	34	40,3	43	58,2	52	115,2	53	124,7
8	12,1	17	19,7	26	28,0	35	42,3	44	60,1	53	124,7	54	134,8
9	13,1	18	20,4	27	29,4	36	43,7	45	62,9	54	134,8		

**"SORGHUM"**

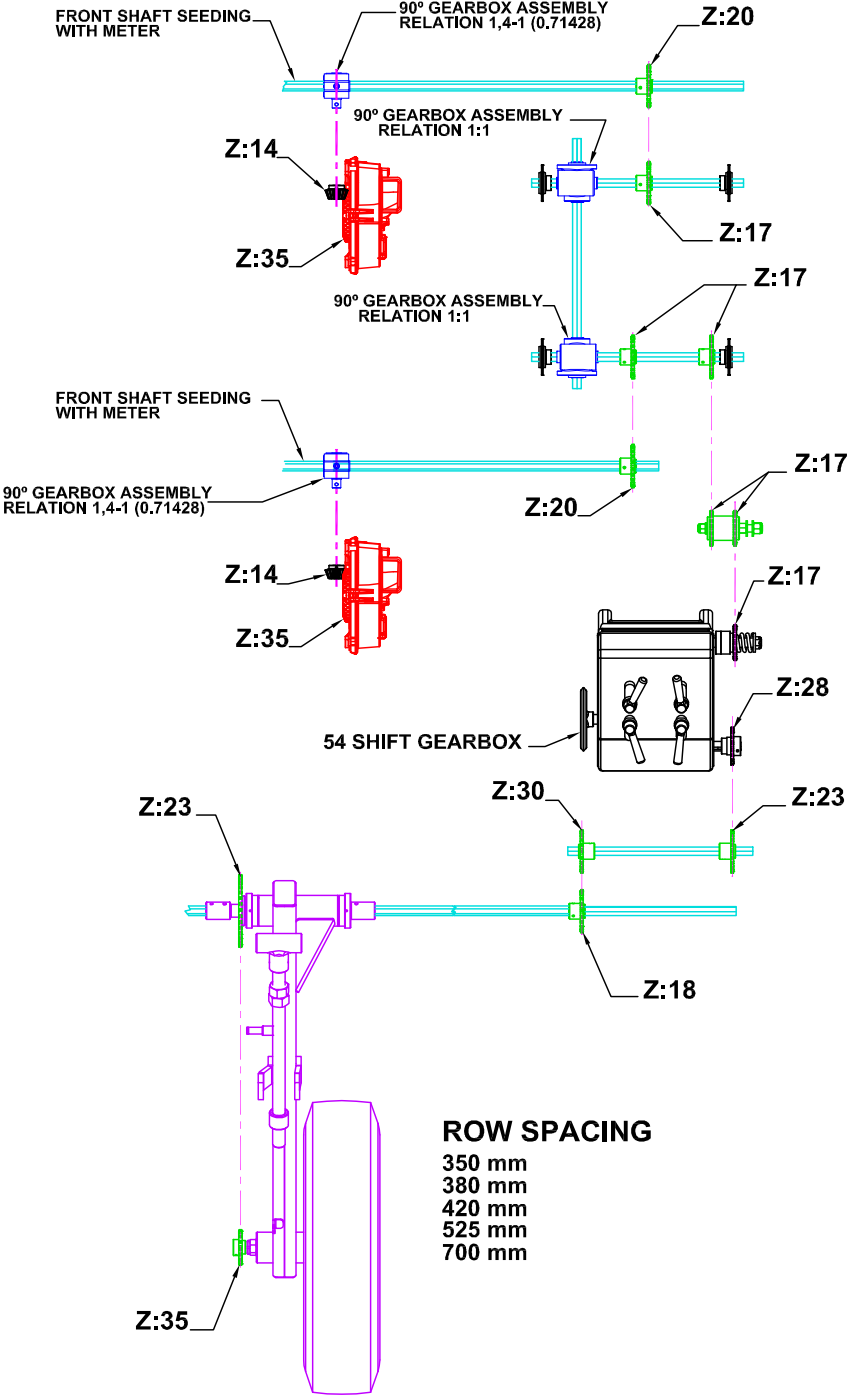
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	7,9	10	17,0	19	24,6	28	36,4	37	52,8	46	81,8	47	88,5
2	8,6	11	17,8	20	25,4	29	38,2	38	54,5	47	88,5	48	95,7
3	9,3	12	18,4	21	26,6	30	39,4	39	57,1	48	95,7	49	104,5
4	10,1	13	19,3	22	27,6	31	41,3	40	59,2	49	104,5	50	113,1
5	11,0	14	19,9	23	28,9	32	42,6	41	62,0	50	113,1	51	122,3
6	11,9	15	20,8	24	29,9	33	44,7	42	64,1	51	122,3	52	132,9
7	12,9	16	21,7	25	31,3	34	46,5	43	67,1	52	132,9	53	143,8
8	14,0	17	22,8	26	32,3	35	48,8	44	69,3	53	143,8	54	155,6
9	15,1	18	23,5	27	33,9	36	50,4	45	72,6	54	155,6		

**"CORN"**

SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	6,6	10	14,2	19	20,5	28	30,4	37	44,0	46	68,1	47	73,8
2	7,2	11	14,8	20	21,2	29	31,8	38	45,4	47	73,8	48	79,8
3	7,7	12	15,3	21	22,2	30	32,9	39	47,6	48	79,8	49	87,1
4	8,4	13	16,1	22	23,0	31	34,4	40	49,3	49	87,1	50	94,3
5	9,1	14	16,6	23	24,1	32	35,5	41	51,7	50	94,3	51	101,9
6	9,9	15	17,4	24	24,9	33	37,2	42	53,4	51	101,9	52	110,7
7	10,7	16	18,1	25	26,1	34	38,8	43	55,9	52	110,7	53	119,9
8	11,6	17	19,0	26	26,9	35	40,6	44	57,7	53	119,9	54	129,6
9	12,6	18	19,6	27	28,2	36	42,0	45	60,5	54	129,6		

# TRANSMISSION SEEDING WITH PLATE METER

MACHINE DRIVING DIRECTION





### ROW SPACING


- 350 mm
- 380 mm
- 420 mm
- 525 mm
- 700 mm


TIRE 6.50 x 16 WITH BLOCKS




54000 - SEED RATE CHART WITH PLATE METER 								
"SOYBEAN & BEAN" at 350mm						150 CELLS		
SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha
1	2,0	57920	19	6,3	179857	37	13,5	385408
2	2,2	62701	20	6,5	185675	38	13,9	397874
3	2,4	67812	21	6,8	194516	39	14,6	416821
4	2,6	74009	22	7,1	201687	40	15,1	432187
5	2,8	80118	23	7,4	211292	41	15,8	452768
6	3,0	86648	24	7,6	218335	42	16,4	467860
7	3,3	94121	25	8,0	228731	43	17,2	490139
8	3,6	101889	26	8,3	236130	44	17,7	505993
9	3,9	110194	27	8,7	247374	45	18,6	530087
10	4,3	124115	28	9,3	265961	46	20,9	597056
11	4,6	130026	29	9,8	278626	47	22,6	646337
12	4,7	134360	30	10,1	287914	48	24,5	699016
13	4,9	140758	31	10,6	301624	49	26,7	762905
14	5,1	145311	32	10,9	311380	50	28,9	825875
15	5,3	152230	33	11,4	326208	51	31,3	893188
16	5,6	158592	34	11,9	339839	52	34,0	970216
17	5,8	166144	35	12,5	356022	53	36,8	1050297
18	6,0	171682	36	12,9	367890	54	39,8	1135902
"SORGHUM" at 350mm						132 CELLS		
SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha
1	1,8	50970	19	5,5	158274	37	11,9	339159
2	1,9	55177	20	5,7	163394	38	12,3	350130
3	2,1	59674	21	6,0	171174	39	12,8	366802
4	2,3	65128	22	6,2	177485	40	13,3	380325
5	2,5	70504	23	6,5	185937	41	13,9	398435
6	2,7	76250	24	6,7	192134	42	14,4	411717
7	2,9	82826	25	7,0	201284	43	15,1	431322
8	3,1	89663	26	7,3	207794	44	15,6	445273
9	3,4	96971	27	7,6	217689	45	16,3	466477
10	3,8	109221	28	8,2	234046	46	18,4	525409
11	4,0	114422	29	8,6	245191	47	19,9	568776
12	4,1	118237	30	8,9	253364	48	21,5	615134
13	4,3	123867	31	9,3	265429	49	23,5	671356
14	4,5	127873	32	9,6	274014	50	25,4	726770
15	4,7	133963	33	10,0	287063	51	27,5	786005
16	4,9	139561	34	10,5	299059	52	29,9	853790
17	5,1	146206	35	11,0	313300	53	32,3	924262
18	5,3	151080	36	11,3	323743	54	35,0	999593


<b>54000 - SEED RATE CHART WITH PLATE METER </b>								
<b>"SOYBEAN &amp; BEAN" at 382mm</b>						<b>150 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	2,0	53068	<b>19</b>	6,3	164791	<b>37</b>	13,5	353123
<b>2</b>	2,2	57449	<b>20</b>	6,5	170121	<b>38</b>	13,9	364545
<b>3</b>	2,4	62131	<b>21</b>	6,8	178222	<b>39</b>	14,6	381904
<b>4</b>	2,6	67810	<b>22</b>	7,1	184792	<b>40</b>	15,1	395983
<b>5</b>	2,8	73407	<b>23</b>	7,4	193592	<b>41</b>	15,8	414839
<b>6</b>	3,0	79390	<b>24</b>	7,6	200045	<b>42</b>	16,4	428667
<b>7</b>	3,3	86236	<b>25</b>	8,0	209571	<b>43</b>	17,2	449080
<b>8</b>	3,6	93354	<b>26</b>	8,3	216349	<b>44</b>	17,7	463606
<b>9</b>	3,9	100963	<b>27</b>	8,7	226652	<b>45</b>	18,6	485682
<b>10</b>	4,3	113718	<b>28</b>	9,3	243682	<b>46</b>	20,9	547041
<b>11</b>	4,6	119133	<b>29</b>	9,8	255286	<b>47</b>	22,6	592193
<b>12</b>	4,7	123104	<b>30</b>	10,1	263795	<b>48</b>	24,5	640460
<b>13</b>	4,9	128967	<b>31</b>	10,6	276357	<b>49</b>	26,7	698997
<b>14</b>	5,1	133138	<b>32</b>	10,9	285296	<b>50</b>	28,9	756692
<b>15</b>	5,3	139478	<b>33</b>	11,4	298881	<b>51</b>	31,3	818366
<b>16</b>	5,6	145307	<b>34</b>	11,9	311371	<b>52</b>	34,0	888941
<b>17</b>	5,8	152226	<b>35</b>	12,5	326198	<b>53</b>	36,8	962314
<b>18</b>	6,0	157300	<b>36</b>	12,9	337072	<b>54</b>	39,8	1040748
<b>"SORGHUM" at 382mm</b>						<b>132 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	1,8	46700	<b>19</b>	5,5	145016	<b>37</b>	11,9	310748
<b>2</b>	1,9	50555	<b>20</b>	5,7	149706	<b>38</b>	12,3	320799
<b>3</b>	2,1	54675	<b>21</b>	6,0	156835	<b>39</b>	12,8	336075
<b>4</b>	2,3	59673	<b>22</b>	6,2	162617	<b>40</b>	13,3	348465
<b>5</b>	2,5	64598	<b>23</b>	6,5	170361	<b>41</b>	13,9	365059
<b>6</b>	2,7	69863	<b>24</b>	6,7	176039	<b>42</b>	14,4	377227
<b>7</b>	2,9	75888	<b>25</b>	7,0	184422	<b>43</b>	15,1	395190
<b>8</b>	3,1	82152	<b>26</b>	7,3	190387	<b>44</b>	15,6	407973
<b>9</b>	3,4	88847	<b>27</b>	7,6	199453	<b>45</b>	16,3	427400
<b>10</b>	3,8	100072	<b>28</b>	8,2	214440	<b>46</b>	18,4	481396
<b>11</b>	4,0	104837	<b>29</b>	8,6	224651	<b>47</b>	19,9	521130
<b>12</b>	4,1	108332	<b>30</b>	8,9	232140	<b>48</b>	21,5	563605
<b>13</b>	4,3	113491	<b>31</b>	9,3	243194	<b>49</b>	23,5	615117
<b>14</b>	4,5	117161	<b>32</b>	9,6	251060	<b>50</b>	25,4	665889
<b>15</b>	4,7	122741	<b>33</b>	10,0	263016	<b>51</b>	27,5	720162
<b>16</b>	4,9	127870	<b>34</b>	10,5	274007	<b>52</b>	29,9	782268
<b>17</b>	5,1	133959	<b>35</b>	11,0	287055	<b>53</b>	32,3	846837
<b>18</b>	5,3	138424	<b>36</b>	11,3	296623	<b>54</b>	35,0	915858

<b>54000 - SEED RATE CHART WITH PLATE METER </b>								
<b>"ACID DELINTED COTTON" at 382mm</b>						<b>100 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	1,4	35379	<b>19</b>	4,2	109860	<b>37</b>	9,0	235415
<b>2</b>	1,5	38299	<b>20</b>	4,3	113414	<b>38</b>	9,3	243030
<b>3</b>	1,6	41421	<b>21</b>	4,5	118815	<b>39</b>	9,7	254603
<b>4</b>	1,7	45206	<b>22</b>	4,7	123195	<b>40</b>	10,1	263989
<b>5</b>	1,9	48938	<b>23</b>	4,9	129061	<b>41</b>	10,6	276560
<b>6</b>	2,0	52926	<b>24</b>	5,1	133363	<b>42</b>	10,9	285778
<b>7</b>	2,2	57491	<b>25</b>	5,3	139714	<b>43</b>	11,4	299387
<b>8</b>	2,4	62236	<b>26</b>	5,5	144233	<b>44</b>	11,8	309070
<b>9</b>	2,6	67309	<b>27</b>	5,8	151101	<b>45</b>	12,4	323788
<b>10</b>	2,9	75812	<b>28</b>	6,2	162455	<b>46</b>	13,9	364694
<b>11</b>	3,0	79422	<b>29</b>	6,5	170190	<b>47</b>	15,1	394796
<b>12</b>	3,1	82070	<b>30</b>	6,7	175864	<b>48</b>	16,3	426973
<b>13</b>	3,3	85978	<b>31</b>	7,0	184238	<b>49</b>	17,8	465998
<b>14</b>	3,4	88759	<b>32</b>	7,3	190197	<b>50</b>	19,3	504461
<b>15</b>	3,6	92985	<b>33</b>	7,6	199254	<b>51</b>	20,8	545577
<b>16</b>	3,7	96871	<b>34</b>	7,9	207581	<b>52</b>	22,6	592628
<b>17</b>	3,9	101484	<b>35</b>	8,3	217466	<b>53</b>	24,5	641543
<b>18</b>	4,0	104867	<b>36</b>	8,6	224714	<b>54</b>	26,5	693832

<b>54000 - SEED RATE CHART WITH PLATE METER </b>								
<b>"SOYBEAN &amp; BEAN" at 420mm</b>						<b>150 CELLS</b>		
SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha
1	2,0	48267	19	6,3	149881	37	13,5	321174
2	2,2	52251	20	6,5	154729	38	13,9	331562
3	2,4	56510	21	6,8	162097	39	14,6	347351
4	2,6	61675	22	7,1	168073	40	15,1	360156
5	2,8	66765	23	7,4	176076	41	15,8	377306
6	3,0	72207	24	7,6	181945	42	16,4	389883
7	3,3	78434	25	8,0	190610	43	17,2	408449
8	3,6	84908	26	8,3	196775	44	17,7	421660
9	3,9	91828	27	8,7	206145	45	18,6	441740
10	4,3	103429	28	9,3	221634	46	20,9	497547
11	4,6	108355	29	9,8	232188	47	22,6	538614
12	4,7	111966	30	10,1	239928	48	24,5	582514
13	4,9	117298	31	10,6	251353	49	26,7	635754
14	5,1	121092	32	10,9	259483	50	28,9	688229
15	5,3	126859	33	11,4	271840	51	31,3	744323
16	5,6	132160	34	11,9	283200	52	34,0	808513
17	5,8	138453	35	12,5	296685	53	36,8	875248
18	6,0	143068	36	12,9	306575	54	39,8	946585
<b>"SORGHUM" at 420mm</b>						<b>132 CELLS</b>		
SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha
1	1,8	42475	19	5,5	131895	37	11,9	282633
2	1,9	45981	20	5,7	136161	38	12,3	291775
3	2,1	49729	21	6,0	142645	39	12,8	305669
4	2,3	54274	22	6,2	147904	40	13,3	316937
5	2,5	58753	23	6,5	154947	41	13,9	332030
6	2,7	63542	24	6,7	160112	42	14,4	343097
7	2,9	69022	25	7,0	167736	43	15,1	359435
8	3,1	74719	26	7,3	173162	44	15,6	371061
9	3,4	80809	27	7,6	181408	45	16,3	388731
10	3,8	91018	28	8,2	195038	46	18,4	437841
11	4,0	95352	29	8,6	204326	47	19,9	473980
12	4,1	98530	30	8,9	211137	48	21,5	512612
13	4,3	103222	31	9,3	221191	49	23,5	559464
14	4,5	106561	32	9,6	228345	50	25,4	605642
15	4,7	111636	33	10,0	239219	51	27,5	655004
16	4,9	116301	34	10,5	249216	52	29,9	711492
17	5,1	121839	35	11,0	261083	53	32,3	770218
18	5,3	125900	36	11,3	269786	54	35,0	832994


<b>54000 - SEED RATE CHART WITH PLATE METER</b>								
<b>"PEANUT &amp; SUNFLOWER" at 525mm</b>						<b>30 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	0,4	7723	<b>19</b>	1,3	23981	<b>37</b>	2,7	51388
<b>2</b>	0,4	8360	<b>20</b>	1,3	24757	<b>38</b>	2,8	53050
<b>3</b>	0,5	9042	<b>21</b>	1,4	25936	<b>39</b>	2,9	55576
<b>4</b>	0,5	9868	<b>22</b>	1,4	26892	<b>40</b>	3,0	57625
<b>5</b>	0,6	10682	<b>23</b>	1,5	28172	<b>41</b>	3,2	60369
<b>6</b>	0,6	11553	<b>24</b>	1,5	29111	<b>42</b>	3,3	62381
<b>7</b>	0,7	12549	<b>25</b>	1,6	30498	<b>43</b>	3,4	65352
<b>8</b>	0,7	13585	<b>26</b>	1,7	31484	<b>44</b>	3,5	67466
<b>9</b>	0,8	14693	<b>27</b>	1,7	32983	<b>45</b>	3,7	70678
<b>10</b>	0,9	16549	<b>28</b>	1,9	35462	<b>46</b>	4,2	79607
<b>11</b>	0,9	17337	<b>29</b>	2,0	37150	<b>47</b>	4,5	86178
<b>12</b>	0,9	17915	<b>30</b>	2,0	38388	<b>48</b>	4,9	93202
<b>13</b>	1,0	18768	<b>31</b>	2,1	40217	<b>49</b>	5,3	101721
<b>14</b>	1,0	19375	<b>32</b>	2,2	41517	<b>50</b>	5,8	110117
<b>15</b>	1,1	20297	<b>33</b>	2,3	43494	<b>51</b>	6,3	119092
<b>16</b>	1,1	21146	<b>34</b>	2,4	45312	<b>52</b>	6,8	129362
<b>17</b>	1,2	22152	<b>35</b>	2,5	47470	<b>53</b>	7,4	140040
<b>18</b>	1,2	22891	<b>36</b>	2,6	49052	<b>54</b>	8,0	151454
<b>"CORN" at 525mm</b>						<b>60 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	0,8	15445	<b>19</b>	2,5	47962	<b>37</b>	5,4	102776
<b>2</b>	0,9	16720	<b>20</b>	2,6	49513	<b>38</b>	5,6	106100
<b>3</b>	0,9	18083	<b>21</b>	2,7	51871	<b>39</b>	5,8	111152
<b>4</b>	1,0	19736	<b>22</b>	2,8	53783	<b>40</b>	6,1	115250
<b>5</b>	1,1	21365	<b>23</b>	3,0	56344	<b>41</b>	6,3	120738
<b>6</b>	1,2	23106	<b>24</b>	3,1	58223	<b>42</b>	6,6	124763
<b>7</b>	1,3	25099	<b>25</b>	3,2	60995	<b>43</b>	6,9	130704
<b>8</b>	1,4	27171	<b>26</b>	3,3	62968	<b>44</b>	7,1	134931
<b>9</b>	1,5	29385	<b>27</b>	3,5	65966	<b>45</b>	7,4	141357
<b>10</b>	1,7	33097	<b>28</b>	3,7	70923	<b>46</b>	8,4	159215
<b>11</b>	1,8	34673	<b>29</b>	3,9	74300	<b>47</b>	9,0	172356
<b>12</b>	1,9	35829	<b>30</b>	4,0	76777	<b>48</b>	9,8	186404
<b>13</b>	2,0	37535	<b>31</b>	4,2	80433	<b>49</b>	10,7	203441
<b>14</b>	2,0	38750	<b>32</b>	4,4	83035	<b>50</b>	11,6	220233
<b>15</b>	2,1	40595	<b>33</b>	4,6	86989	<b>51</b>	12,5	238183
<b>16</b>	2,2	42291	<b>34</b>	4,8	90624	<b>52</b>	13,6	258724
<b>17</b>	2,3	44305	<b>35</b>	5,0	94939	<b>53</b>	14,7	280079
<b>18</b>	2,4	45782	<b>36</b>	5,2	98104	<b>54</b>	15,9	302907

<b>54000 - SEED RATE CHART WITH PLATE METER </b>								
<b>"SOYBEAN &amp; BEAN" at 525mm</b>						<b>150 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	2,0	38614	<b>19</b>	6,3	119905	<b>37</b>	13,5	256939
<b>2</b>	2,2	41801	<b>20</b>	6,5	123783	<b>38</b>	13,9	265250
<b>3</b>	2,4	45208	<b>21</b>	6,8	129678	<b>39</b>	14,6	277881
<b>4</b>	2,6	49340	<b>22</b>	7,1	134458	<b>40</b>	15,1	288125
<b>5</b>	2,8	53412	<b>23</b>	7,4	140861	<b>41</b>	15,8	301845
<b>6</b>	3,0	57765	<b>24</b>	7,6	145556	<b>42</b>	16,4	311907
<b>7</b>	3,3	62747	<b>25</b>	8,0	152488	<b>43</b>	17,2	326759
<b>8</b>	3,6	67926	<b>26</b>	8,3	157420	<b>44</b>	17,7	337328
<b>9</b>	3,9	73463	<b>27</b>	8,7	164916	<b>45</b>	18,6	353392
<b>10</b>	4,3	82744	<b>28</b>	9,3	177308	<b>46</b>	20,9	398037
<b>11</b>	4,6	86684	<b>29</b>	9,8	185751	<b>47</b>	22,6	430891
<b>12</b>	4,7	89573	<b>30</b>	10,1	191942	<b>48</b>	24,5	466011
<b>13</b>	4,9	93839	<b>31</b>	10,6	201083	<b>49</b>	26,7	508603
<b>14</b>	5,1	96874	<b>32</b>	10,9	207587	<b>50</b>	28,9	550583
<b>15</b>	5,3	101487	<b>33</b>	11,4	217472	<b>51</b>	31,3	595458
<b>16</b>	5,6	105728	<b>34</b>	11,9	226560	<b>52</b>	34,0	646811
<b>17</b>	5,8	110762	<b>35</b>	12,5	237348	<b>53</b>	36,8	700198
<b>18</b>	6,0	114455	<b>36</b>	12,9	245260	<b>54</b>	39,8	757268
<b>"SORGHUM" at 525mm</b>						<b>132 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	1,8	33980	<b>19</b>	5,5	105516	<b>37</b>	11,9	226106
<b>2</b>	1,9	36785	<b>20</b>	5,7	108929	<b>38</b>	12,3	233420
<b>3</b>	2,1	39783	<b>21</b>	6,0	114116	<b>39</b>	12,8	244535
<b>4</b>	2,3	43419	<b>22</b>	6,2	118323	<b>40</b>	13,3	253550
<b>5</b>	2,5	47003	<b>23</b>	6,5	123958	<b>41</b>	13,9	265624
<b>6</b>	2,7	50834	<b>24</b>	6,7	128090	<b>42</b>	14,4	274478
<b>7</b>	2,9	55218	<b>25</b>	7,0	134189	<b>43</b>	15,1	287548
<b>8</b>	3,1	59775	<b>26</b>	7,3	138530	<b>44</b>	15,6	296849
<b>9</b>	3,4	64647	<b>27</b>	7,6	145126	<b>45</b>	16,3	310985
<b>10</b>	3,8	72814	<b>28</b>	8,2	156031	<b>46</b>	18,4	350273
<b>11</b>	4,0	76282	<b>29</b>	8,6	163461	<b>47</b>	19,9	379184
<b>12</b>	4,1	78824	<b>30</b>	8,9	168909	<b>48</b>	21,5	410090
<b>13</b>	4,3	82578	<b>31</b>	9,3	176953	<b>49</b>	23,5	447571
<b>14</b>	4,5	85249	<b>32</b>	9,6	182676	<b>50</b>	25,4	484513
<b>15</b>	4,7	89308	<b>33</b>	10,0	191375	<b>51</b>	27,5	524003
<b>16</b>	4,9	93040	<b>34</b>	10,5	199372	<b>52</b>	29,9	569193
<b>17</b>	5,1	97471	<b>35</b>	11,0	208866	<b>53</b>	32,3	616174
<b>18</b>	5,3	100720	<b>36</b>	11,3	215829	<b>54</b>	35,0	666396

54000 - SEED RATE CHART WITH PLATE METER 								
"BEAN" at 525mm						78 CELLS		
SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha	SHIFT	Grains/m	Grains/ha
1	1,1	20079	19	3,3	62350	37	7,0	133608
2	1,1	21736	20	3,4	64367	38	7,2	137930
3	1,2	23508	21	3,5	67432	39	7,6	144498
4	1,3	25657	22	3,7	69918	40	7,9	149825
5	1,5	27774	23	3,8	73248	41	8,2	156959
6	1,6	30038	24	4,0	75689	42	8,5	162191
7	1,7	32629	25	4,2	79294	43	8,9	169915
8	1,9	35322	26	4,3	81858	44	9,2	175411
9	2,0	38201	27	4,5	85756	45	9,6	183764
10	2,3	43027	28	4,8	92200	46	10,9	206979
11	2,4	45076	29	5,1	96590	47	11,8	224063
12	2,4	46578	30	5,2	99810	48	12,7	242326
13	2,6	48796	31	5,5	104563	49	13,9	264474
14	2,6	50374	32	5,7	107945	50	15,0	286303
15	2,8	52773	33	5,9	113085	51	16,3	309638
16	2,9	54978	34	6,2	117811	52	17,7	336342
17	3,0	57596	35	6,5	123421	53	19,1	364103
18	3,1	59516	36	6,7	127535	54	20,7	393779

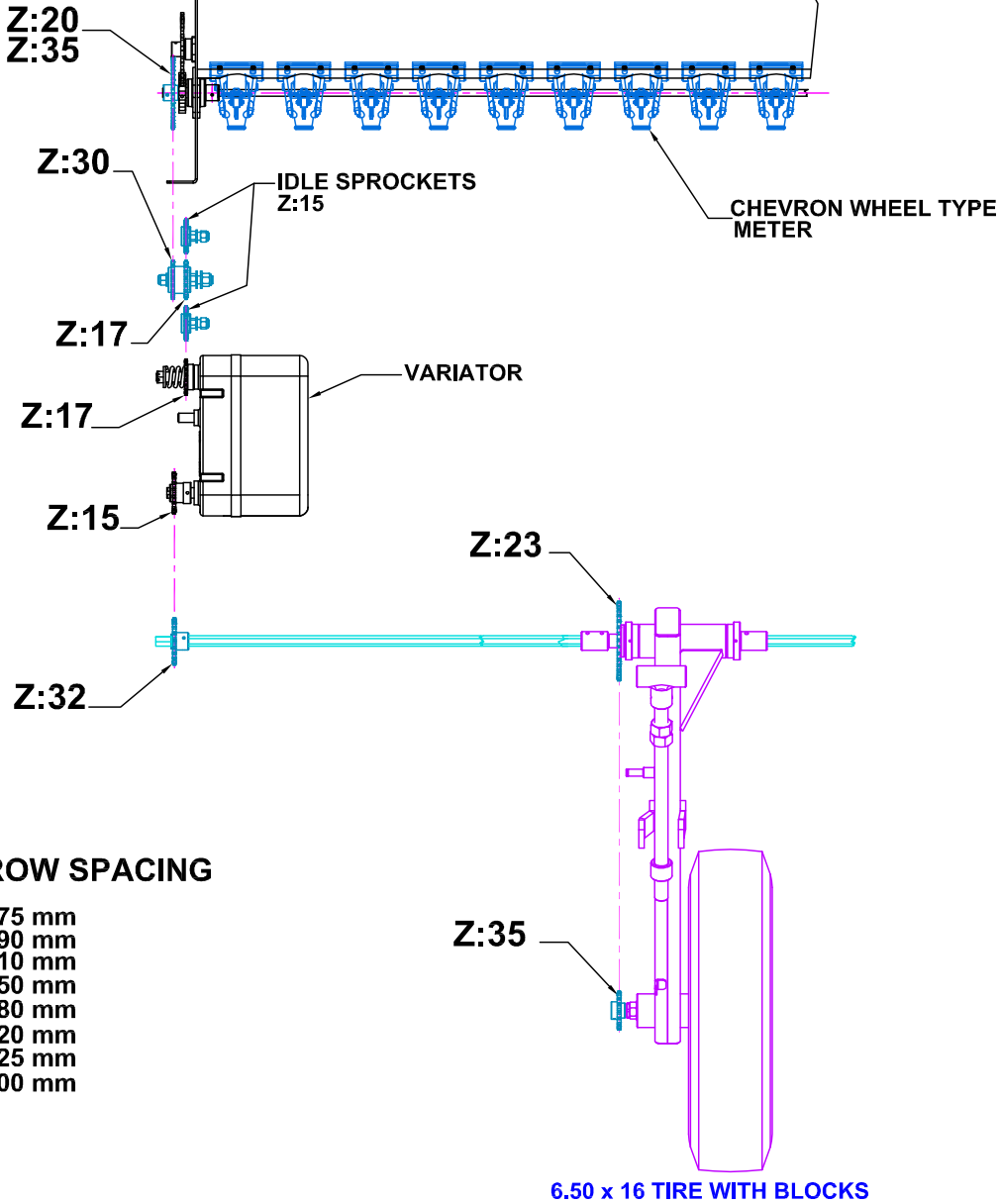
<b>54000 - SEED RATE CHART WITH PLATE METER</b>								
<b>"PEANUT &amp; SUNFLOWER" at 700mm</b>						<b>30 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	0,41	5792	<b>19</b>	1,26	17986	<b>37</b>	2,70	38541
<b>2</b>	0,44	6270	<b>20</b>	1,30	18567	<b>38</b>	2,79	39787
<b>3</b>	0,47	6781	<b>21</b>	1,36	19452	<b>39</b>	2,92	41682
<b>4</b>	0,52	7401	<b>22</b>	1,41	20169	<b>40</b>	3,03	43219
<b>5</b>	0,56	8012	<b>23</b>	1,48	21129	<b>41</b>	3,17	45277
<b>6</b>	0,61	8665	<b>24</b>	1,53	21833	<b>42</b>	3,28	46786
<b>7</b>	0,66	9412	<b>25</b>	1,60	22873	<b>43</b>	3,43	49014
<b>8</b>	0,71	10189	<b>26</b>	1,65	23613	<b>44</b>	3,54	50599
<b>9</b>	0,77	11019	<b>27</b>	1,73	24737	<b>45</b>	3,71	53009
<b>10</b>	0,87	12412	<b>28</b>	1,86	26596	<b>46</b>	4,18	59706
<b>11</b>	0,91	13003	<b>29</b>	1,95	27863	<b>47</b>	4,52	64634
<b>12</b>	0,94	13436	<b>30</b>	2,02	28791	<b>48</b>	4,89	69902
<b>13</b>	0,99	14076	<b>31</b>	2,11	30162	<b>49</b>	5,34	76290
<b>14</b>	1,02	14531	<b>32</b>	2,18	31138	<b>50</b>	5,78	82587
<b>15</b>	1,07	15223	<b>33</b>	2,28	32621	<b>51</b>	6,25	89319
<b>16</b>	1,11	15859	<b>34</b>	2,38	33984	<b>52</b>	6,79	97022
<b>17</b>	1,16	16614	<b>35</b>	2,49	35602	<b>53</b>	7,35	105030
<b>18</b>	1,20	17168	<b>36</b>	2,58	36789	<b>54</b>	7,95	113590
<b>"CORN" at 700mm</b>						<b>60 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	0,8	11584	<b>19</b>	2,5	35971	<b>37</b>	5,4	77082
<b>2</b>	0,9	12540	<b>20</b>	2,6	37135	<b>38</b>	5,6	79575
<b>3</b>	0,9	13562	<b>21</b>	2,7	38903	<b>39</b>	5,8	83364
<b>4</b>	1,0	14802	<b>22</b>	2,8	40337	<b>40</b>	6,1	86437
<b>5</b>	1,1	16024	<b>23</b>	3,0	42258	<b>41</b>	6,3	90554
<b>6</b>	1,2	17330	<b>24</b>	3,1	43667	<b>42</b>	6,6	93572
<b>7</b>	1,3	18824	<b>25</b>	3,2	45746	<b>43</b>	6,9	98028
<b>8</b>	1,4	20378	<b>26</b>	3,3	47226	<b>44</b>	7,1	101199
<b>9</b>	1,5	22039	<b>27</b>	3,5	49475	<b>45</b>	7,4	106017
<b>10</b>	1,7	24823	<b>28</b>	3,7	53192	<b>46</b>	8,4	119411
<b>11</b>	1,8	26005	<b>29</b>	3,9	55725	<b>47</b>	9,0	129267
<b>12</b>	1,9	26872	<b>30</b>	4,0	57583	<b>48</b>	9,8	139803
<b>13</b>	2,0	28152	<b>31</b>	4,2	60325	<b>49</b>	10,7	152581
<b>14</b>	2,0	29062	<b>32</b>	4,4	62276	<b>50</b>	11,6	165175
<b>15</b>	2,1	30446	<b>33</b>	4,6	65242	<b>51</b>	12,5	178638
<b>16</b>	2,2	31718	<b>34</b>	4,8	67968	<b>52</b>	13,6	194043
<b>17</b>	2,3	33229	<b>35</b>	5,0	71204	<b>53</b>	14,7	210059
<b>18</b>	2,4	34336	<b>36</b>	5,2	73578	<b>54</b>	15,9	227180



<b>54000 - SEED RATE CHART WITH PLATE METER </b>								
<b>"ACID DELINTED COTTON" at 700mm</b>						<b>100 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	1,4	19307	<b>19</b>	4,2	59952	<b>37</b>	9,0	128469
<b>2</b>	1,5	20900	<b>20</b>	4,3	61892	<b>38</b>	9,3	132625
<b>3</b>	1,6	22604	<b>21</b>	4,5	64839	<b>39</b>	9,7	138940
<b>4</b>	1,7	24670	<b>22</b>	4,7	67229	<b>40</b>	10,1	144062
<b>5</b>	1,9	26706	<b>23</b>	4,9	70431	<b>41</b>	10,6	150923
<b>6</b>	2,0	28883	<b>24</b>	5,1	72778	<b>42</b>	10,9	155953
<b>7</b>	2,2	31374	<b>25</b>	5,3	76244	<b>43</b>	11,4	163380
<b>8</b>	2,4	33963	<b>26</b>	5,5	78710	<b>44</b>	11,8	168664
<b>9</b>	2,6	36731	<b>27</b>	5,8	82458	<b>45</b>	12,4	176696
<b>10</b>	2,9	41372	<b>28</b>	6,2	88654	<b>46</b>	13,9	199019
<b>11</b>	3,0	43342	<b>29</b>	6,5	92875	<b>47</b>	15,1	215446
<b>12</b>	3,1	44787	<b>30</b>	6,7	95971	<b>48</b>	16,3	233005
<b>13</b>	3,3	46919	<b>31</b>	7,0	100541	<b>49</b>	17,8	254302
<b>14</b>	3,4	48437	<b>32</b>	7,3	103793	<b>50</b>	19,3	275292
<b>15</b>	3,6	50743	<b>33</b>	7,6	108736	<b>51</b>	20,8	297729
<b>16</b>	3,7	52864	<b>34</b>	7,9	113280	<b>52</b>	22,6	323405
<b>17</b>	3,9	55381	<b>35</b>	8,3	118674	<b>53</b>	24,5	350099
<b>18</b>	4,0	57227	<b>36</b>	8,6	122630	<b>54</b>	26,5	378634
<b>"BEAN" at 700mm</b>						<b>78 CELLS</b>		
<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>	<b>SHIFT</b>	<b>Grains/m</b>	<b>Grains/ha</b>
<b>1</b>	1,05	15059	<b>19</b>	3,27	46763	<b>37</b>	7,01	100206
<b>2</b>	1,14	16302	<b>20</b>	3,38	48275	<b>38</b>	7,24	103447
<b>3</b>	1,23	17631	<b>21</b>	3,54	50574	<b>39</b>	7,59	108373
<b>4</b>	1,35	19242	<b>22</b>	3,67	52439	<b>40</b>	7,87	112369
<b>5</b>	1,46	20831	<b>23</b>	3,85	54936	<b>41</b>	8,24	117720
<b>6</b>	1,58	22529	<b>24</b>	3,97	56767	<b>42</b>	8,52	121644
<b>7</b>	1,71	24471	<b>25</b>	4,16	59470	<b>43</b>	8,92	127436
<b>8</b>	1,85	26491	<b>26</b>	4,30	61394	<b>44</b>	9,21	131558
<b>9</b>	2,01	28650	<b>27</b>	4,50	64317	<b>45</b>	9,65	137823
<b>10</b>	2,26	32270	<b>28</b>	4,84	69150	<b>46</b>	10,87	155235
<b>11</b>	2,37	33807	<b>29</b>	5,07	72443	<b>47</b>	11,76	168048
<b>12</b>	2,45	34934	<b>30</b>	5,24	74858	<b>48</b>	12,72	181744
<b>13</b>	2,56	36597	<b>31</b>	5,49	78422	<b>49</b>	13,88	198355
<b>14</b>	2,64	37781	<b>32</b>	5,67	80959	<b>50</b>	15,03	214727
<b>15</b>	2,77	39580	<b>33</b>	5,94	84814	<b>51</b>	16,26	232229
<b>16</b>	2,89	41234	<b>34</b>	6,19	88358	<b>52</b>	17,66	252256
<b>17</b>	3,02	43197	<b>35</b>	6,48	92566	<b>53</b>	19,12	273077
<b>18</b>	3,12	44637	<b>36</b>	6,70	95651	<b>54</b>	20,67	295334



# TRANSMISSION FERTILIZING WITH CHEVRON UNIT

MACHINE  
DRIVING  
DIRECTION



## ROW SPACING

- 175 mm
- 190 mm
- 210 mm
- 350 mm
- 380 mm
- 420 mm
- 525 mm
- 700 mm

54000 - FERTILIZER RATE CHART  UREA										54000 - FERTILIZER RATE CHART  UREA													
at 175mm										at 191mm													
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha				
1	23,1	9	177,0	17	360,0	25	535,4	1	21,3	9	163,1	17	331,6	25	493,1	1	21,3	9	163,1	17	331,6	25	493,1
2	39,3	10	200,1	18	377,9	26	555,6	2	36,2	10	184,3	18	348,1	26	511,7	2	36,2	10	184,3	18	348,1	26	511,7
3	63,1	11	225,0	19	405,0	27	583,5	3	58,1	11	207,3	19	373,1	27	537,4	3	58,1	11	207,3	19	373,1	27	537,4
4	80,1	12	243,6	20	422,9	28	609,9	4	73,7	12	224,4	20	389,5	28	561,7	4	73,7	12	224,4	20	389,5	28	561,7
5	101,6	13	268,5	21	447,7	29	629,3	5	93,6	13	247,3	21	412,4	29	579,6	5	93,6	13	247,3	21	412,4	29	579,6
6	115,5	14	288,7	22	464,8	30	649,5	6	106,3	14	265,9	22	428,1	30	598,2	6	106,3	14	265,9	22	428,1	30	598,2
7	133,9	15	315,8	23	487,3	31	679,7	7	123,4	15	290,9	23	448,8	31	626,1	7	123,4	15	290,9	23	448,8	31	626,1
8	152,4	16	334,4	24	512,1	32	699,9	8	140,4	16	308,0	24	471,7	32	644,6	8	140,4	16	308,0	24	471,7	32	644,6
PHOSPHATE										PHOSPHATE													
at 175mm										at 191mm													
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha				
1	28,9	9	221,3	17	450,0	25	669,3	1	26,6	9	203,8	17	414,5	25	616,4	1	26,6	9	203,8	17	414,5	25	616,4
2	49,1	10	250,2	18	472,4	26	694,5	2	45,2	10	230,4	18	435,1	26	639,6	2	45,2	10	230,4	18	435,1	26	639,6
3	78,9	11	281,3	19	506,3	27	729,4	3	72,7	11	259,1	19	466,3	27	671,8	3	72,7	11	259,1	19	466,3	27	671,8
4	100,1	12	304,6	20	528,6	28	762,4	4	92,2	12	280,5	20	486,9	28	702,2	4	92,2	12	280,5	20	486,9	28	702,2
5	127,0	13	335,6	21	559,7	29	786,6	5	117,0	13	309,1	21	515,5	29	724,5	5	117,0	13	309,1	21	515,5	29	724,5
6	144,3	14	360,8	22	581,0	30	811,8	6	132,9	14	332,3	22	535,1	30	747,7	6	132,9	14	332,3	22	535,1	30	747,7
7	167,4	15	394,8	23	609,1	31	849,7	7	154,2	15	363,6	23	561,0	31	782,6	7	154,2	15	363,6	23	561,0	31	782,6
8	190,5	16	418,0	24	640,2	32	874,9	8	175,5	16	385,0	24	589,6	32	805,8	8	175,5	16	385,0	24	589,6	32	805,8



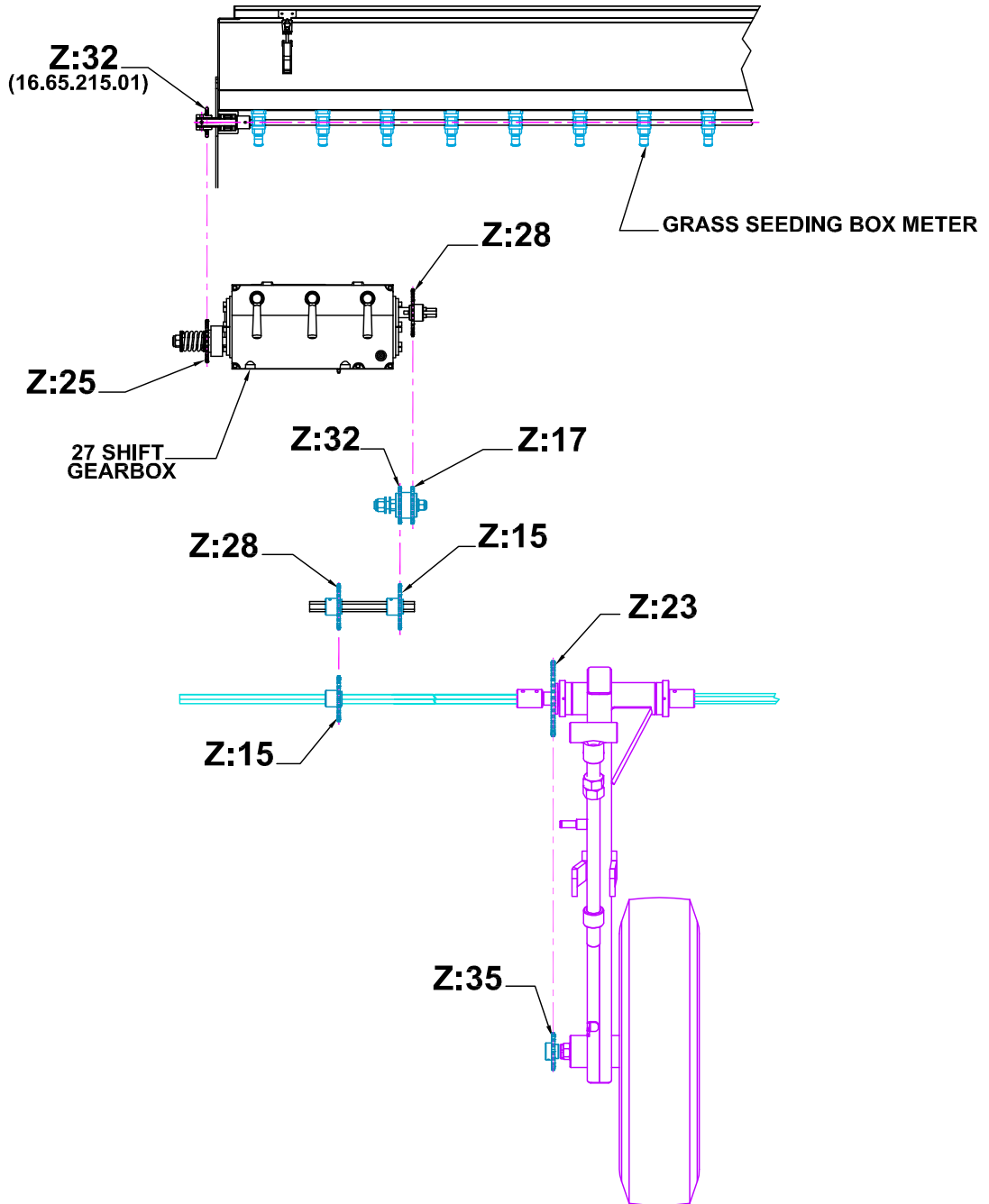
<b>54000 - FERTILIZER RATE CHART</b>				<b>APACHE</b>				<b>UREA</b>			
				<b>at 380mm</b>				<b>at 420mm</b>			
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	10,6	9	81,5	17	165,8	25	535,4	1	9,6	9	73,8
2	18,1	10	92,2	18	174,0	26	555,6	2	16,4	10	83,4
3	29,1	11	103,6	19	186,5	27	583,5	3	26,3	11	93,8
4	36,9	12	112,2	20	194,8	28	609,9	4	33,4	12	101,5
5	46,8	13	123,6	21	206,2	29	629,3	5	42,3	13	111,9
6	53,2	14	132,9	22	214,0	30	649,5	6	48,1	14	120,3
7	61,7	15	145,4	23	224,4	31	679,7	7	55,8	15	131,6
8	70,2	16	154,0	24	235,8	32	699,9	8	63,5	16	139,3
				<b>PHOSPHATE</b>				<b>PHOSPHATE</b>			
				<b>at 380mm</b>				<b>at 420mm</b>			
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	13,3	9	101,9	17	207,3	25	308,2	1	12,0	9	92,2
2	22,6	10	115,2	18	217,5	26	319,8	2	20,4	10	104,2
3	36,3	11	129,5	19	233,2	27	335,9	3	32,9	11	117,2
4	46,1	12	140,3	20	243,4	28	351,1	4	41,7	12	126,9
5	58,5	13	154,6	21	257,7	29	362,3	5	52,9	13	139,8
6	66,5	14	166,2	22	267,6	30	373,9	6	60,1	14	150,3
7	77,1	15	181,8	23	280,5	31	391,3	7	69,8	15	164,5
8	87,7	16	192,5	24	294,8	32	402,9	8	79,4	16	174,2


<b>54000 - FERTILIZER RATE CHART</b>				<b>APACHE</b>				<b>54000 - FERTILIZER RATE CHART</b>				<b>APACHE</b>			
				<b>UREA</b>								<b>UREA</b>			
				<b>at 525mm</b>								<b>at 700mm</b>			
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	7,7	9	59,0	17	120,0	25	178,5	1	5,8	9	44,3	17	90,0	25	133,9
2	13,1	10	66,7	18	126,0	26	185,2	2	9,8	10	50,0	18	94,5	26	138,9
3	21,0	11	75,0	19	135,0	27	194,5	3	15,8	11	56,3	19	101,3	27	145,9
4	26,7	12	81,2	20	141,0	28	203,3	4	20,0	12	60,9	20	105,7	28	152,5
5	33,9	13	89,5	21	149,2	29	209,8	5	25,4	13	67,1	21	111,9	29	157,3
6	38,5	14	96,2	22	154,9	30	216,5	6	28,9	14	72,2	22	116,2	30	162,4
7	44,6	15	105,3	23	162,4	31	226,6	7	33,5	15	79,0	23	121,8	31	169,9
8	50,8	16	111,5	24	170,7	32	233,3	8	38,1	16	83,6	24	128,0	32	175,0
				<b>PHOSPHATE</b>								<b>PHOSPHATE</b>			
				<b>at 525mm</b>								<b>at 700mm</b>			
SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha	SHIFT	Kg/Ha
1	9,6	9	73,8	17	150,0	25	223,1	1	7,2	9	55,3	17	112,5	25	167,3
2	16,4	10	83,4	18	157,5	26	231,5	2	12,3	10	62,5	18	118,1	26	173,6
3	26,3	11	93,8	19	168,8	27	243,1	3	19,7	11	70,3	19	126,6	27	182,3
4	33,4	12	101,5	20	176,2	28	254,1	4	25,0	12	76,1	20	132,2	28	190,6
5	42,3	13	111,9	21	186,6	29	262,2	5	31,8	13	83,9	21	139,9	29	196,7
6	48,1	14	120,3	22	193,7	30	270,6	6	36,1	14	90,2	22	145,2	30	203,0
7	55,8	15	131,6	23	203,0	31	283,2	7	41,9	15	98,7	23	152,3	31	212,4
8	63,5	16	139,3	24	213,4	32	291,6	8	47,6	16	104,5	24	160,0	32	218,7

MACHINE DRIVING DIRECTION





# TRANSMISSION GRASS SEEDING BOX





<b>54000 - GRASS SEEDING BOX RATE CHART</b> 					
<b>"RED CLOVER"</b>					<b>175mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	4,1	<b>10</b>	6,8	<b>19</b>	11,3
<b>2</b>	4,3	<b>11</b>	7,2	<b>20</b>	11,9
<b>3</b>	4,5	<b>12</b>	7,6	<b>21</b>	12,6
<b>4</b>	4,8	<b>13</b>	8,0	<b>22</b>	13,4
<b>5</b>	5,1	<b>14</b>	8,5	<b>23</b>	14,2
<b>6</b>	5,4	<b>15</b>	9,0	<b>24</b>	15,0
<b>7</b>	5,7	<b>16</b>	9,6	<b>25</b>	15,9
<b>8</b>	6,1	<b>17</b>	10,1	<b>26</b>	16,8
<b>9</b>	6,4	<b>18</b>	10,7	<b>27</b>	17,8
<b>"FOXTAIL MILLET"</b>					<b>175mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	3,9	<b>10</b>	6,5	<b>19</b>	10,7
<b>2</b>	4,1	<b>11</b>	6,8	<b>20</b>	11,4
<b>3</b>	4,3	<b>12</b>	7,2	<b>21</b>	12,0
<b>4</b>	4,6	<b>13</b>	7,7	<b>22</b>	12,8
<b>5</b>	4,9	<b>14</b>	8,1	<b>23</b>	13,5
<b>6</b>	5,1	<b>15</b>	8,6	<b>24</b>	14,3
<b>7</b>	5,4	<b>16</b>	9,1	<b>25</b>	15,1
<b>8</b>	5,8	<b>17</b>	9,6	<b>26</b>	16,0
<b>9</b>	6,1	<b>18</b>	10,2	<b>27</b>	17,0
<b>"MELILOTUS"</b>					<b>175mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	4,4	<b>10</b>	7,4	<b>19</b>	12,4
<b>2</b>	4,7	<b>11</b>	7,9	<b>20</b>	13,1
<b>3</b>	5,0	<b>12</b>	8,3	<b>21</b>	13,8
<b>4</b>	5,3	<b>13</b>	8,8	<b>22</b>	14,7
<b>5</b>	5,6	<b>14</b>	9,3	<b>23</b>	15,5
<b>6</b>	5,9	<b>15</b>	9,9	<b>24</b>	16,4
<b>7</b>	6,3	<b>16</b>	10,5	<b>25</b>	17,4
<b>8</b>	6,6	<b>17</b>	11,1	<b>26</b>	18,4
<b>9</b>	7,0	<b>18</b>	11,7	<b>27</b>	19,5




<b>54000 - GRASS SEEDING BOX RATE CHART</b> 					
<b>"BIRDSEED &amp; ALFALFA WITHOUT TREATMENT"</b>					<b>175mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	5,4	<b>10</b>	9,0	<b>19</b>	15,0
<b>2</b>	5,7	<b>11</b>	9,6	<b>20</b>	15,9
<b>3</b>	6,1	<b>12</b>	10,1	<b>21</b>	16,9
<b>4</b>	6,4	<b>13</b>	10,7	<b>22</b>	17,9
<b>5</b>	6,8	<b>14</b>	11,4	<b>23</b>	18,9
<b>6</b>	7,2	<b>15</b>	12,0	<b>24</b>	20,0
<b>7</b>	7,6	<b>16</b>	12,7	<b>25</b>	21,2
<b>8</b>	8,1	<b>17</b>	13,5	<b>26</b>	22,5
<b>9</b>	8,6	<b>18</b>	14,3	<b>27</b>	23,8
<b>"ALFALFA WITH TREATMENT"</b>					<b>175mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	8,1	<b>10</b>	13,6	<b>19</b>	22,6
<b>2</b>	8,6	<b>11</b>	14,4	<b>20</b>	23,9
<b>3</b>	9,1	<b>12</b>	15,2	<b>21</b>	25,3
<b>4</b>	9,6	<b>13</b>	16,1	<b>22</b>	26,8
<b>5</b>	10,2	<b>14</b>	17,0	<b>23</b>	28,4
<b>6</b>	10,8	<b>15</b>	18,1	<b>24</b>	30,0
<b>7</b>	11,4	<b>16</b>	19,1	<b>25</b>	31,8
<b>8</b>	12,1	<b>17</b>	20,2	<b>26</b>	33,7
<b>9</b>	12,8	<b>18</b>	21,4	<b>27</b>	35,7
<b>"WHITE CLOVER"</b>					<b>175mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	3,7	<b>10</b>	6,1	<b>19</b>	10,2
<b>2</b>	3,9	<b>11</b>	6,5	<b>20</b>	10,8
<b>3</b>	4,1	<b>12</b>	6,9	<b>21</b>	11,4
<b>4</b>	4,4	<b>13</b>	7,3	<b>22</b>	12,1
<b>5</b>	4,6	<b>14</b>	7,7	<b>23</b>	12,8
<b>6</b>	4,9	<b>15</b>	8,2	<b>24</b>	13,6
<b>7</b>	5,2	<b>16</b>	8,6	<b>25</b>	14,4
<b>8</b>	5,5	<b>17</b>	9,2	<b>26</b>	15,2
<b>9</b>	5,8	<b>18</b>	9,7	<b>27</b>	16,1

<b>54000 - GRASS SEEDING BOX RATE CHART </b>					
<b>"BIRDSEED &amp; ALFALFA WITHOUT TREATMENT"</b>					<b>191mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	5,0	<b>10</b>	8,4	<b>19</b>	13,9
<b>2</b>	5,3	<b>11</b>	8,8	<b>20</b>	14,7
<b>3</b>	5,6	<b>12</b>	9,4	<b>21</b>	15,6
<b>4</b>	5,9	<b>13</b>	9,9	<b>22</b>	16,5
<b>5</b>	6,3	<b>14</b>	10,5	<b>23</b>	17,5
<b>6</b>	6,7	<b>15</b>	11,1	<b>24</b>	18,5
<b>7</b>	7,0	<b>16</b>	11,8	<b>25</b>	19,6
<b>8</b>	7,5	<b>17</b>	12,5	<b>26</b>	20,7
<b>9</b>	7,9	<b>18</b>	13,2	<b>27</b>	22,0
<b>"ALFALFA WITH TREATMENT"</b>					<b>191mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	7,5	<b>10</b>	12,5	<b>19</b>	20,8
<b>2</b>	7,9	<b>11</b>	13,3	<b>20</b>	22,1
<b>3</b>	8,4	<b>12</b>	14,0	<b>21</b>	23,4
<b>4</b>	8,9	<b>13</b>	14,9	<b>22</b>	24,8
<b>5</b>	9,4	<b>14</b>	15,8	<b>23</b>	26,2
<b>6</b>	10,0	<b>15</b>	16,7	<b>24</b>	27,7
<b>7</b>	10,6	<b>16</b>	17,7	<b>25</b>	29,4
<b>8</b>	11,2	<b>17</b>	18,7	<b>26</b>	31,1
<b>9</b>	11,9	<b>18</b>	19,8	<b>27</b>	33,0
<b>"WHITE CLOVER"</b>					<b>191mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	3,4	<b>10</b>	5,7	<b>19</b>	9,4
<b>2</b>	3,6	<b>11</b>	6,0	<b>20</b>	10,0
<b>3</b>	3,8	<b>12</b>	6,4	<b>21</b>	10,6
<b>4</b>	4,0	<b>13</b>	6,7	<b>22</b>	11,2
<b>5</b>	4,3	<b>14</b>	7,1	<b>23</b>	11,9
<b>6</b>	4,5	<b>15</b>	7,5	<b>24</b>	12,6
<b>7</b>	4,8	<b>16</b>	8,0	<b>25</b>	13,3
<b>8</b>	5,1	<b>17</b>	8,5	<b>26</b>	14,1
<b>9</b>	5,4	<b>18</b>	9,0	<b>27</b>	14,9

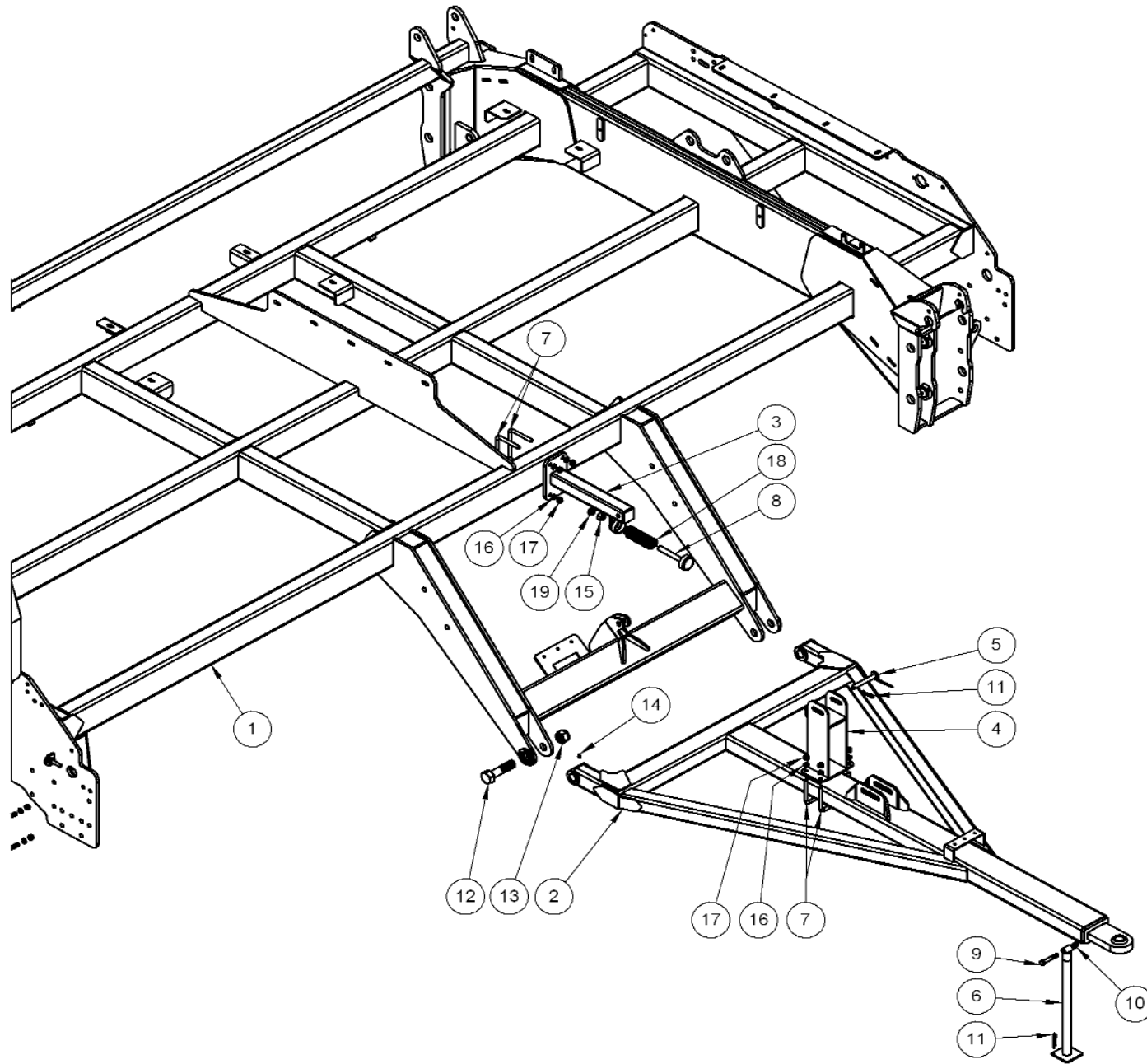
<b>54000 - GRASS SEEDING BOX RATE CHART</b> 					
<b>"RED CLOVER"</b>					<b>191mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	3,7	<b>10</b>	6,3	<b>19</b>	10,4
<b>2</b>	4,0	<b>11</b>	6,6	<b>20</b>	11,0
<b>3</b>	4,2	<b>12</b>	7,0	<b>21</b>	11,7
<b>4</b>	4,5	<b>13</b>	7,4	<b>22</b>	12,4
<b>5</b>	4,7	<b>14</b>	7,9	<b>23</b>	13,1
<b>6</b>	5,0	<b>15</b>	8,3	<b>24</b>	13,9
<b>7</b>	5,3	<b>16</b>	8,8	<b>25</b>	14,7
<b>8</b>	5,6	<b>17</b>	9,4	<b>26</b>	15,6
<b>9</b>	5,9	<b>18</b>	9,9	<b>27</b>	16,5
<b>"FOXTAIL MILLET"</b>					<b>191mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	3,6	<b>10</b>	6,0	<b>19</b>	9,9
<b>2</b>	3,8	<b>11</b>	6,3	<b>20</b>	10,5
<b>3</b>	4,0	<b>12</b>	6,7	<b>21</b>	11,1
<b>4</b>	4,2	<b>13</b>	7,1	<b>22</b>	11,8
<b>5</b>	4,5	<b>14</b>	7,5	<b>23</b>	12,5
<b>6</b>	4,8	<b>15</b>	7,9	<b>24</b>	13,2
<b>7</b>	5,0	<b>16</b>	8,4	<b>25</b>	14,0
<b>8</b>	5,3	<b>17</b>	8,9	<b>26</b>	14,8
<b>9</b>	5,6	<b>18</b>	9,4	<b>27</b>	15,7
<b>"MELILOTUS"</b>					<b>191mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	4,1	<b>10</b>	6,9	<b>19</b>	11,4
<b>2</b>	4,3	<b>11</b>	7,3	<b>20</b>	12,1
<b>3</b>	4,6	<b>12</b>	7,7	<b>21</b>	12,8
<b>4</b>	4,9	<b>13</b>	8,1	<b>22</b>	13,6
<b>5</b>	5,2	<b>14</b>	8,6	<b>23</b>	14,4
<b>6</b>	5,5	<b>15</b>	9,1	<b>24</b>	15,2
<b>7</b>	5,8	<b>16</b>	9,7	<b>25</b>	16,1
<b>8</b>	6,1	<b>17</b>	10,2	<b>26</b>	17,0
<b>9</b>	6,5	<b>18</b>	10,8	<b>27</b>	18,0

<b>54000 - GRASS SEEDING BOX RATE CHART </b>					
<b>"BIRDSEED &amp; ALFALFA WITHOUT TREATMENT"</b>					<b>210mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	4,5	<b>10</b>	7,6	<b>19</b>	12,6
<b>2</b>	4,8	<b>11</b>	8,0	<b>20</b>	13,4
<b>3</b>	5,1	<b>12</b>	8,5	<b>21</b>	14,2
<b>4</b>	5,4	<b>13</b>	9,0	<b>22</b>	15,0
<b>5</b>	5,7	<b>14</b>	9,6	<b>23</b>	15,9
<b>6</b>	6,1	<b>15</b>	10,1	<b>24</b>	16,8
<b>7</b>	6,4	<b>16</b>	10,7	<b>25</b>	17,8
<b>8</b>	6,8	<b>17</b>	11,3	<b>26</b>	18,9
<b>9</b>	7,2	<b>18</b>	12,0	<b>27</b>	20,0
<b>"ALFALFA WITH TREATMENT"</b>					<b>210mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	6,8	<b>10</b>	11,4	<b>19</b>	19,0
<b>2</b>	7,2	<b>11</b>	12,1	<b>20</b>	20,1
<b>3</b>	7,6	<b>12</b>	12,8	<b>21</b>	21,3
<b>4</b>	8,1	<b>13</b>	13,5	<b>22</b>	22,5
<b>5</b>	8,6	<b>14</b>	14,3	<b>23</b>	23,8
<b>6</b>	9,1	<b>15</b>	15,2	<b>24</b>	25,2
<b>7</b>	9,6	<b>16</b>	16,1	<b>25</b>	26,7
<b>8</b>	10,2	<b>17</b>	17,0	<b>26</b>	28,3
<b>9</b>	10,8	<b>18</b>	18,0	<b>27</b>	30,0
<b>"WHITE CLOVER"</b>					<b>210mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	3,1	<b>10</b>	5,2	<b>19</b>	8,6
<b>2</b>	3,3	<b>11</b>	5,5	<b>20</b>	9,1
<b>3</b>	3,5	<b>12</b>	5,8	<b>21</b>	9,6
<b>4</b>	3,7	<b>13</b>	6,1	<b>22</b>	10,2
<b>5</b>	3,9	<b>14</b>	6,5	<b>23</b>	10,8
<b>6</b>	4,1	<b>15</b>	6,9	<b>24</b>	11,4
<b>7</b>	4,3	<b>16</b>	7,3	<b>25</b>	12,1
<b>8</b>	4,6	<b>17</b>	7,7	<b>26</b>	12,8
<b>9</b>	4,9	<b>18</b>	8,1	<b>27</b>	13,6

<b>54000 - GRASS SEEDING BOX RATE CHART</b> 					
<b>"RED CLOVER"</b>					<b>210mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	3,4	<b>10</b>	5,7	<b>19</b>	9,5
<b>2</b>	3,6	<b>11</b>	6,0	<b>20</b>	10,0
<b>3</b>	3,8	<b>12</b>	6,4	<b>21</b>	10,6
<b>4</b>	4,0	<b>13</b>	6,8	<b>22</b>	11,3
<b>5</b>	4,3	<b>14</b>	7,2	<b>23</b>	11,9
<b>6</b>	4,5	<b>15</b>	7,6	<b>24</b>	12,6
<b>7</b>	4,8	<b>16</b>	8,0	<b>25</b>	13,4
<b>8</b>	5,1	<b>17</b>	8,5	<b>26</b>	14,2
<b>9</b>	5,4	<b>18</b>	9,0	<b>27</b>	15,0
<b>"FOXTAIL MILLET"</b>					<b>210mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	3,2	<b>10</b>	5,4	<b>19</b>	9,0
<b>2</b>	3,4	<b>11</b>	5,7	<b>20</b>	9,6
<b>3</b>	3,6	<b>12</b>	6,1	<b>21</b>	10,1
<b>4</b>	3,9	<b>13</b>	6,4	<b>22</b>	10,7
<b>5</b>	4,1	<b>14</b>	6,8	<b>23</b>	11,4
<b>6</b>	4,3	<b>15</b>	7,2	<b>24</b>	12,0
<b>7</b>	4,6	<b>16</b>	7,7	<b>25</b>	12,7
<b>8</b>	4,8	<b>17</b>	8,1	<b>26</b>	13,5
<b>9</b>	5,1	<b>18</b>	8,6	<b>27</b>	14,3
<b>"MELILOTUS"</b>					<b>210mm</b>
<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>	<b>SHIFT</b>	<b>Kg/Ha</b>
<b>1</b>	3,7	<b>10</b>	6,2	<b>19</b>	10,4
<b>2</b>	4,0	<b>11</b>	6,6	<b>20</b>	11,0
<b>3</b>	4,2	<b>12</b>	7,0	<b>21</b>	11,6
<b>4</b>	4,4	<b>13</b>	7,4	<b>22</b>	12,3
<b>5</b>	4,7	<b>14</b>	7,8	<b>23</b>	13,1
<b>6</b>	5,0	<b>15</b>	8,3	<b>24</b>	13,8
<b>7</b>	5,3	<b>16</b>	8,8	<b>25</b>	14,6
<b>8</b>	5,6	<b>17</b>	9,3	<b>26</b>	15,5
<b>9</b>	5,9	<b>18</b>	9,9	<b>27</b>	16,4

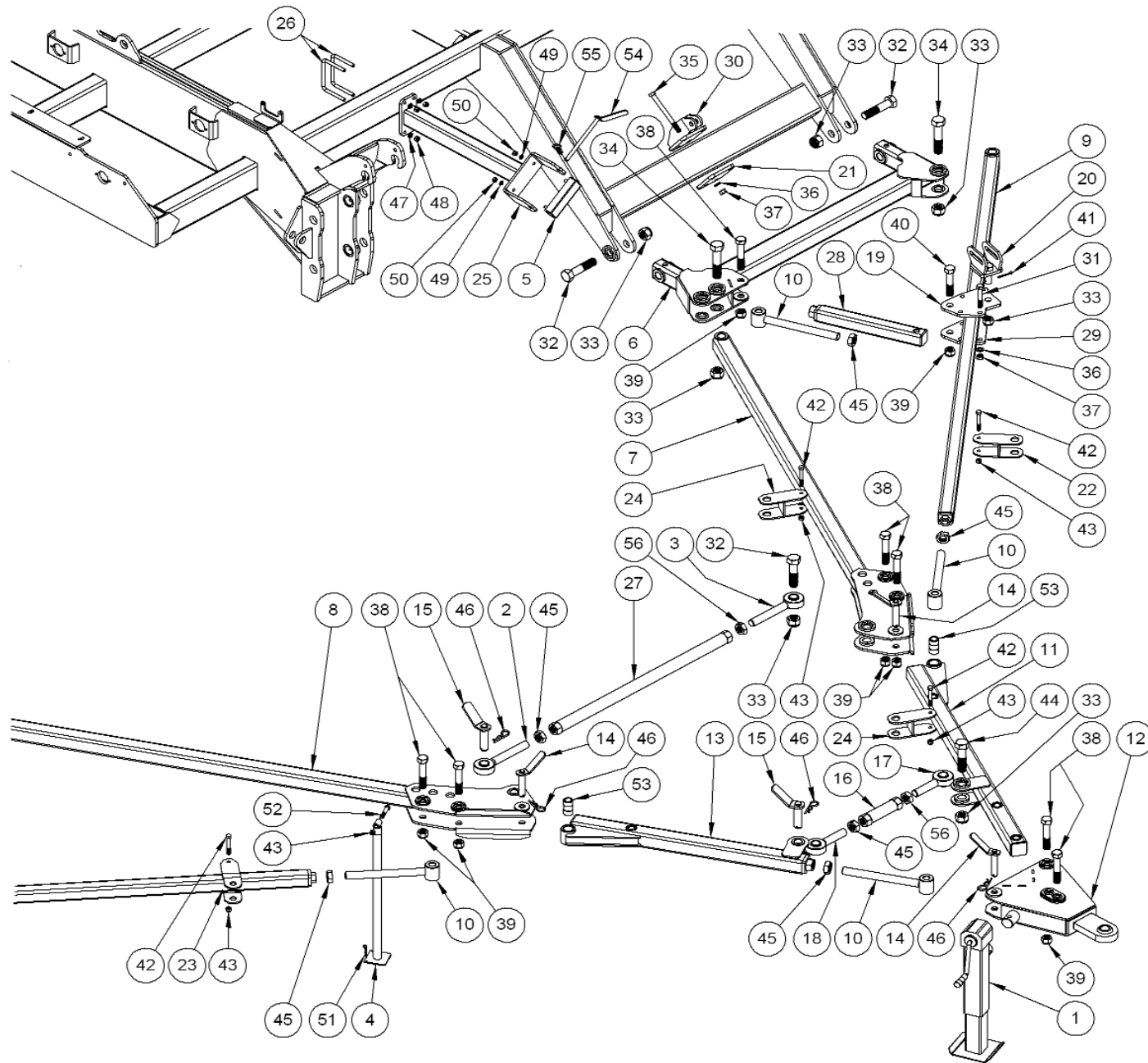
# **SPARE PARTS**





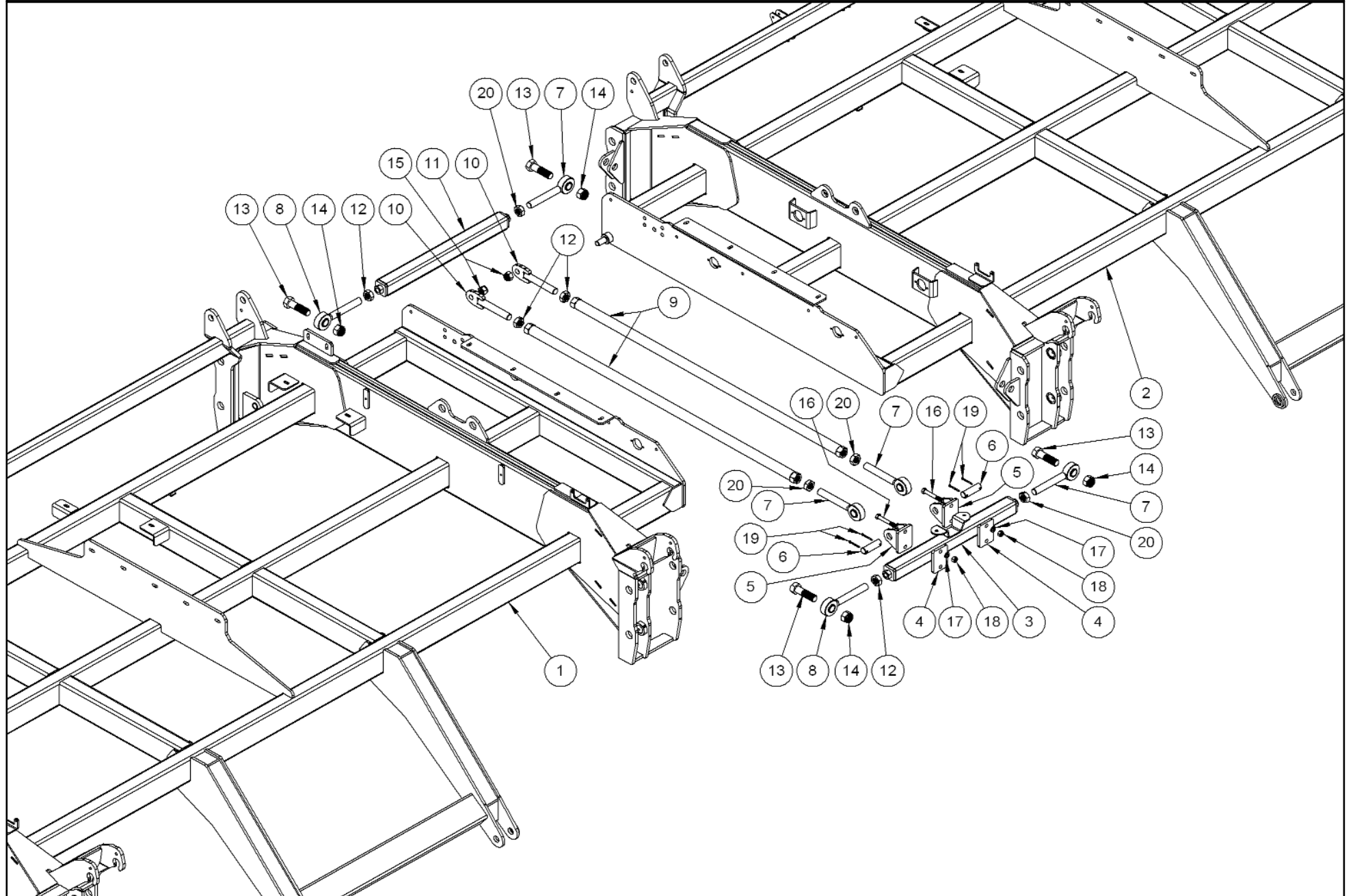




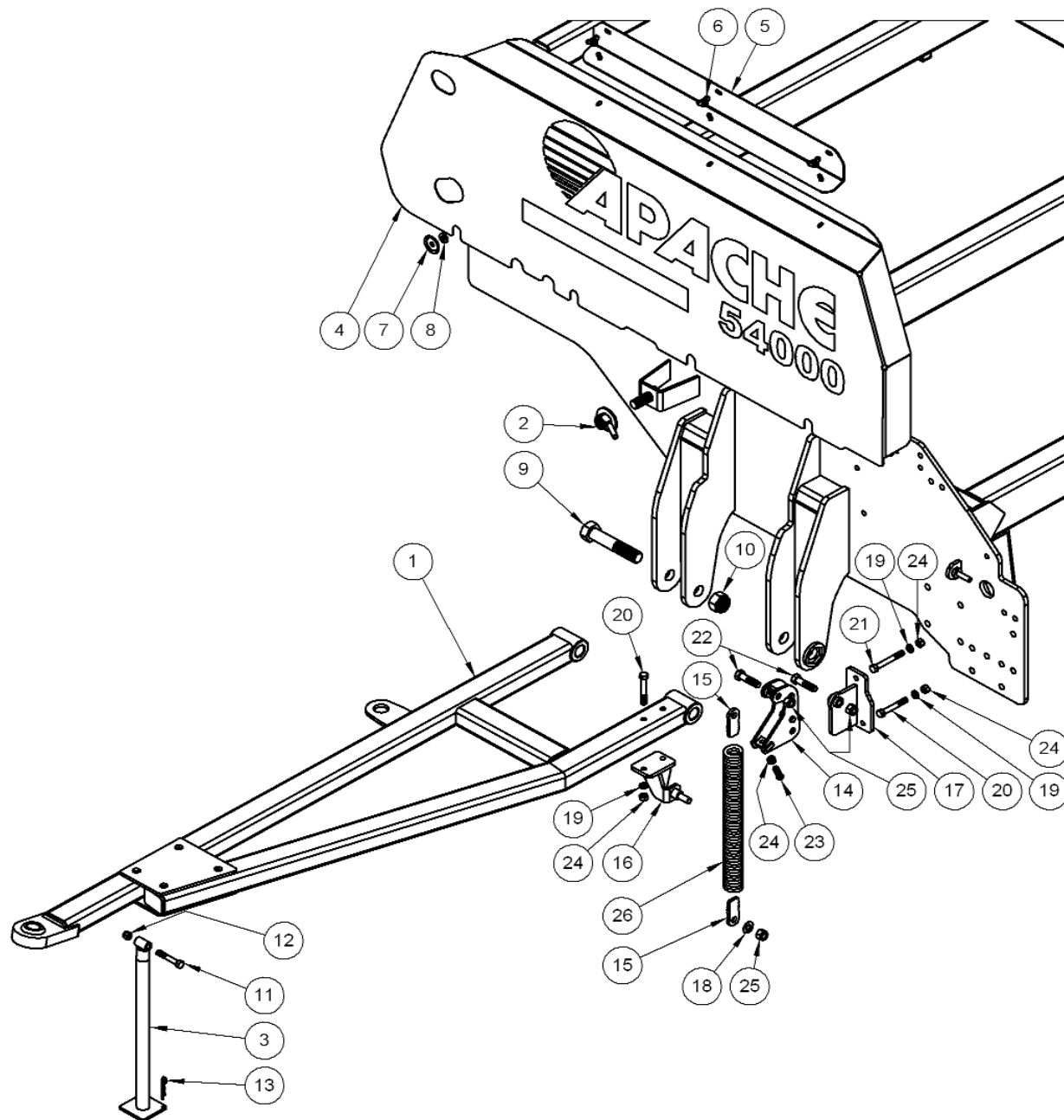


**WORKING HITCH - 2 MODULE MACHINE**

Item	Code	Description	Item	Code	Description
1	15.37.905.10	Jack stand	29	16.65.146.00	Base lower plate, front anchor
2	16.64.006.00	Right adjustment: hitch/frame rear link	30	16.65.147.00	Hitch cylinder rear holder
3	16.64.007.00	Left adjustment: hitch/frame rear link	31	18.03.10.084	Hex head bolt - BSW, 5/8" x 4" double chrome coated
4	16.64.012.00	Work hitch jack stand	32	16.64.591.01	Hex head bolt RW <sup>o</sup> G.5- 1 1/4" x 5 1/2" double chrome coated
5	16.64.098.00	Vulcanized pad - shock absorber seat	33	18.37.01.024	Lock nut - BSW, 1 1/4"
6	16.65.001.00	Right support - hitch first section (shown in picture)	34	18.03.05.195	Hex head bolt RW <sup>o</sup> -G.5- 1 1/4" x 6" double chrome coated
6	16.65.002.00	Left support - hitch first section	35	18.03.10.186	Hex head bolt - BSW, 5/8" x 7 1/2" double chrome coated
7	16.65.004.00	Hitch first section (right)	36	18.02.10.008	Lock washer - 5/8" double chrome coated
8	16.65.003.00	Hitch first section (left)	37	18.16.10.008	Hex nut -BSW, 5/8" double chrome coated
9	16.65.005.00	Working hitch beam - 2 module machine	38	18.03.05.134	Hex head bolt RW <sup>o</sup> -G.5- 1" x 5 1/2" double chrome coated
10	16.65.006.00	Beam adjustment - 2 module machine	39	18.37.01.025	Lock nut - BSW, 1"
11	16.65.007.00	Hitch left final section for 10 m	40	18.03.05.133	Hex head bolt RW <sup>o</sup> -G.5- 1" x 5" double chrome coated
11	16.65.265.00	Hitch left final section for 12 m	41	18.25.10.019	Split Cotter pin, 6 x 50 double chrome coated
12	16.65.008.00	2 module working hitch end	42	18.03.10.060	Hex head bolt - BSW, 1/2" x 3 1/2" double chrome coated
13	16.65.009.00	Hitch right final section for 10 m	43	18.37.01.013	Lock nut - BSW, 1/2"
13	16.65.266.00	Hitch right final section for 12 m	44	18.03.05.189	Hex head bolt RW <sup>o</sup> -G.5- 1 1/4" x 5" double chrome coated
14	16.65.010.01	Locking pin Ø25 hitch, with handle	45	18.19.10.013	Flat hex nut BSW 1 1/4" double chrome coated
15	16.65.011.01	Locking pin Ø32hitch, with handle	46	18.27.01.004	"R" clip pin - 5 x 90
16	16.65.012.00	Hitch link adjustment short tube for 10m	47	18.02.10.006	Lock washer - 1/2" double chrome coated
16	16.65.267.00	Hitch link adjustment short tube for 12m	48	18.16.10.006	Hex nut -BSW, 1/2" double chrome coated
17	16.65.013.00	Left short adjustment w/rod	49	18.02.10.005	Lock washer - 7/16" double chrome coated
18	16.65.014.00	Right short adjustment w/rod	50	18.16.10.005	Hex nut -BSW, 7/16" double chrome coated
19	16.65.015.00	Pivot base plate - front anchorage	51	18.27.01.001	R" clip pin - 3 x 70
20	16.65.016.00	Hitch cylinder front anchorage	52	18.03.10.059	Hex head bolt - BSW, 1/2" x 3" double chrome coated
21	16.65.148.00	Rear base - hitch cylinder anchorage	53	16.65.367.01	Inner bushing - hitch final section pivot
22	16.65.018.00	Flat hitch anchor for 60 x 60 tube	54	16.65.369.01	Pin- first section lock
23	16.65.019.00	Folded hitch anchor for 60x 60 tube	55	18.27.01.003	R" clip pin - 4.5 x 80
24	16.65.355.00	Flat hitch anchor for 70 x 70 tube	56	18.19.04.013	Flat hex nut BSW (LEFT) 1 1/4" double chrome coated
25	16.65.020.00	Working hitch left seat and anchor(shown in picture)			
25	16.65.021.00	Working hitch right seat and anchor			
26	16.65.049.01	1/2" clamp for tube140			
27	16.65.144.00	Hitch link adjustment long tube for 10m			
27	16.65.268.00	Hitch link adjustment long tube for 12m			
28	16.65.145.00	Beam arm - hitch strengthener			

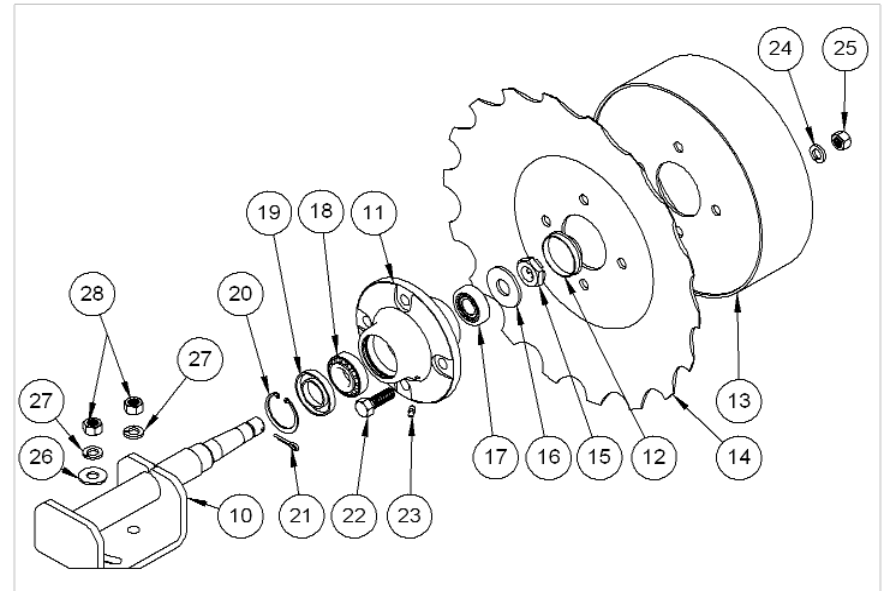
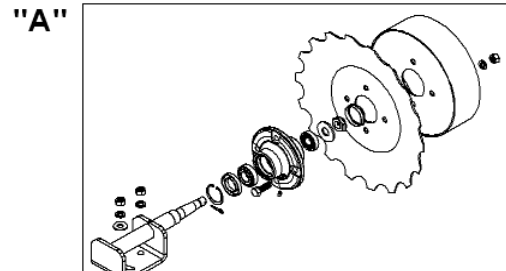
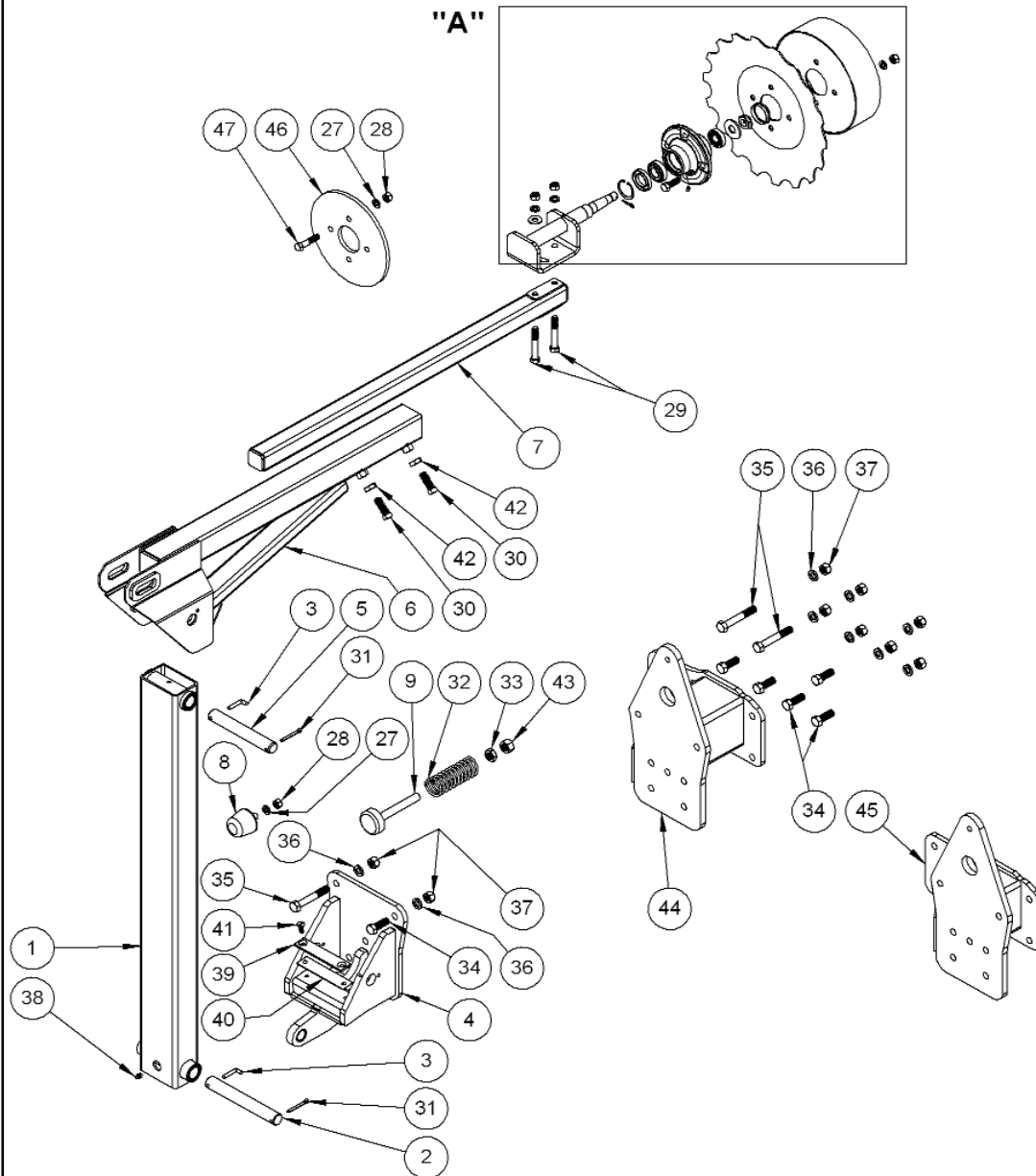






**TRANSPORT HITCH AND CHAIN SHIELD**

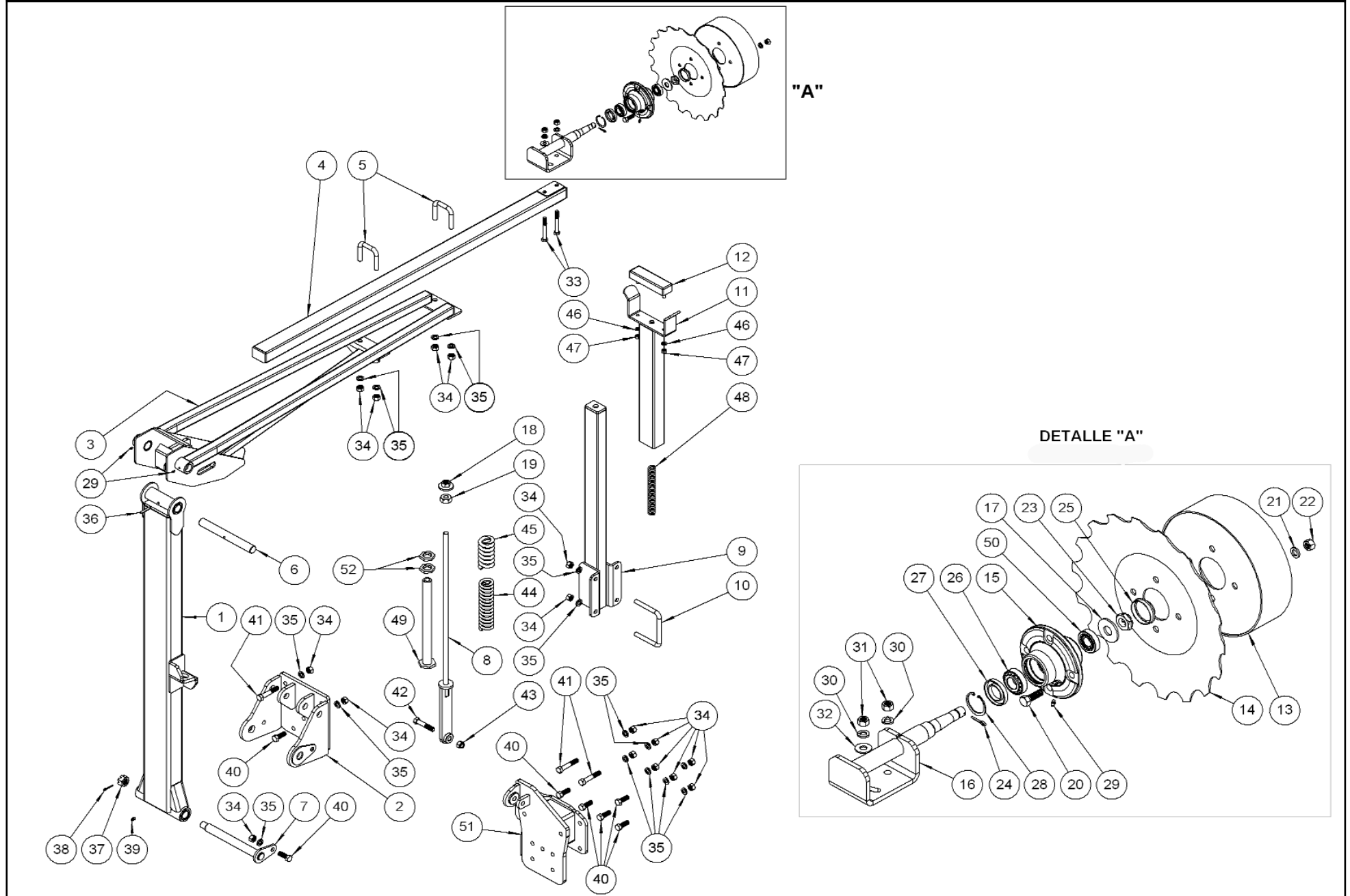
Item	Code	Description	Item	Code	Description
1	16.65.032.00	Transport hitch	24	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated
1	16.65.453.00	Transport hitch with rod, Ø42 (for 3 module machine)	25	18.37.01.012	Lock nut - BSW, 5/8"
1	16.65.454.00	Left transport hitch with rod, Ø42 (for 3 module machine)	26	18.38.01.294	Spring: transport hitch lifting
2	16.64.481.01	Nut - transport hitch lock			
3	16.64.041.00	Hitch stand			
4	16.65.124.00	Right chain cover			
4	16.65.123.00	Left chain cover			
5	16.65.122.00	Chain shield upper seat			
6	16.17.160.10	Wing nut			
7	16.65.19701	Washer - chain shield lower guide			
8	16.65.196.01	Shim washer - lower anchoring bolt			
9	16.64.590.01	Hex head bolt - BSW -G.5- 1 1/4" x 6 1/2" double chrome coated			
10	18.37.01.024	Lock nut - BSW, 1 1/4"			
11	18.03.10.059	Hex head bolt -BSW 1/2" x 3" double chrome coated			
12	18.37.01.013	Lock nut - BSW, 1/2"			
13	18.27.01.001	"R"clip pin, 3 x 70			
14	16.64.767.00	Upper connecting rod - hitch cam spring holder			
15	16.64.770.00	Thread - hitch lower and upper spring holder			
16	16.64.771.00	Hitch spring, left lower holder			
16	16.64.769.00	Hitch spring, lower holder			
17	16.65.432.00	Upper supporting plate:connecting rod holder			
17	16.65.455.00	Left upper supporting plate:connecting rod holder			
18	18.01.10.008	Flat washer - 5/8" double-chrome coated			
19	18.02.10.006	Lock washer - 1/2" double chrome coated			
20	18.03.10.060	Hex head bolt -BSW 1/2" x 3 1/2" double chrome coated			
21	18.03.10.061	Hex head bolt -BSW 1/2" x 4" double chrome coated			
22	18.03.10.079	Hex head bolt -BSW 5/8" x 2 1/2" double chrome coated			
23	18.06.10.053	Square head bolt - BSW 1/2" x 1 1/2" double-chrome coated			



**ROW MARKERS - 5 AND 6 METERS**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	16.30.035.00	Marker initial section	29	18.03.10.060	Hex head bolt - BSW 1/2" x 3 1/2" double-chrome coated
2	16.30.032.01	Pin - marker turning axle	30	18.06.10.076	Square head bolt - BSW 5/8" x 1 3/4" double-chrome coated
3	16.02.023.01	Pin lock	31	18.25.01.019	Split Cotter pin - 5 x 50
4	16.65.338.00	Marker support - 1module, 5 and 6 meters	32	18.38.01.226	Spring - marker stop-end
5	16.30.037.00	Pivoting axle - marker final section	33	18.16.10.009	Hex nut -BSW 3/4" double-chrome coated
6	16.65.339.00	Left marker intermediate section for 5 meters	34	18.03.10.076	Hex head bolt - BSW 5/8" x 1 3/4" double-chrome coated
6	16.65.340.00	Right marker intermediate section for 5 meters	35	18.03.10.084	Hex head bolt - BSW 5/8" x 4" double-chrome coated
6	16.65.342.00	Left marker intermediate section for 6 meters	36	18.02.10.008	Lock washer -5/8" double-chrome coated
6	16.65.341.00	Right marker intermediate section for 6 meters	37	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated
7	16.65.243.00	Marker final section for 5 meters	38	18.29.01.002	Straight grease nipple - 1/8" BSP
7	16.65.347.00	Marker final section for 6 meters	39	16.65.370.00	5mm supplement
8	16.65.278.10	Marker shock absorber	40	16.65.371.00	1mm supplement
9	16.61.037.01	Rod w/spring guide stop-end	41	18.05.10.031	Slotted flat head bolt- BSW 3/8" x 1" double-chrome coated
10	16.65.321.00	Bracket - marker support and axle	42	18.19.10.008	Flat hex nut BSW 5/8" double chrome coated
11	16.65.320.00	Marker hub	43	18.19.10.009	Flat hex nut BSW 3/4" double chrome coated
12	16.26.074.00	Disc hub cover support	44	16.65.417.00	Marker right extension:191mm-6 and 12m- E.R.
13	16.65.322.00	Deph control wheel for 16" disk	44	16.65.416.00	Marker left extension:191mm-6 and 12m- E.R.
14	18.35.01.096	16" Notched marker disk	45	16.65.412.00	Marker right extension:175mm-6 and 12m- E.R.
15	18.21.01.009	Flat castle nut - SAE 3/4"	45	16.65.411.00	Marker left extension:175mm-6 and 12m- E.R.
16	18.01.01.009	Flat washer - 3/4" double chrome coated	46	16.65.418.00	Marker disc counterweight: mainframe 5 and 6 m
17	18.33.01.012	Bearings 30205	47	18.03.10.056	Hex head bolt - BSW 1/2" x 2 1/4" double-chrome coated
18	18.33.01.011	Bearings 30204			
19	18.34.01.109	Grease seal - DBH 5171			
20	18.32.01.043	Seeger ring 55.l			
21	18.25.01.003	Split Cotter pin -3 x 30			
22	18.03.01.053	Hex head bolt - BSW 1/2" x 1 1/2"			
23	18.29.01.001	Straight grease nipple - 1/4" NF			
24	18.02.01.006	Lock washer - 1/2"			
25	18.16.01.006	Hex nut - BSW 1/2"			
26	18.01.10.006	Flat washer - 1/2" double-chrome coated			
27	18.02.10.006	Lock washer -1/2" double-chrome coated			
28	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated			





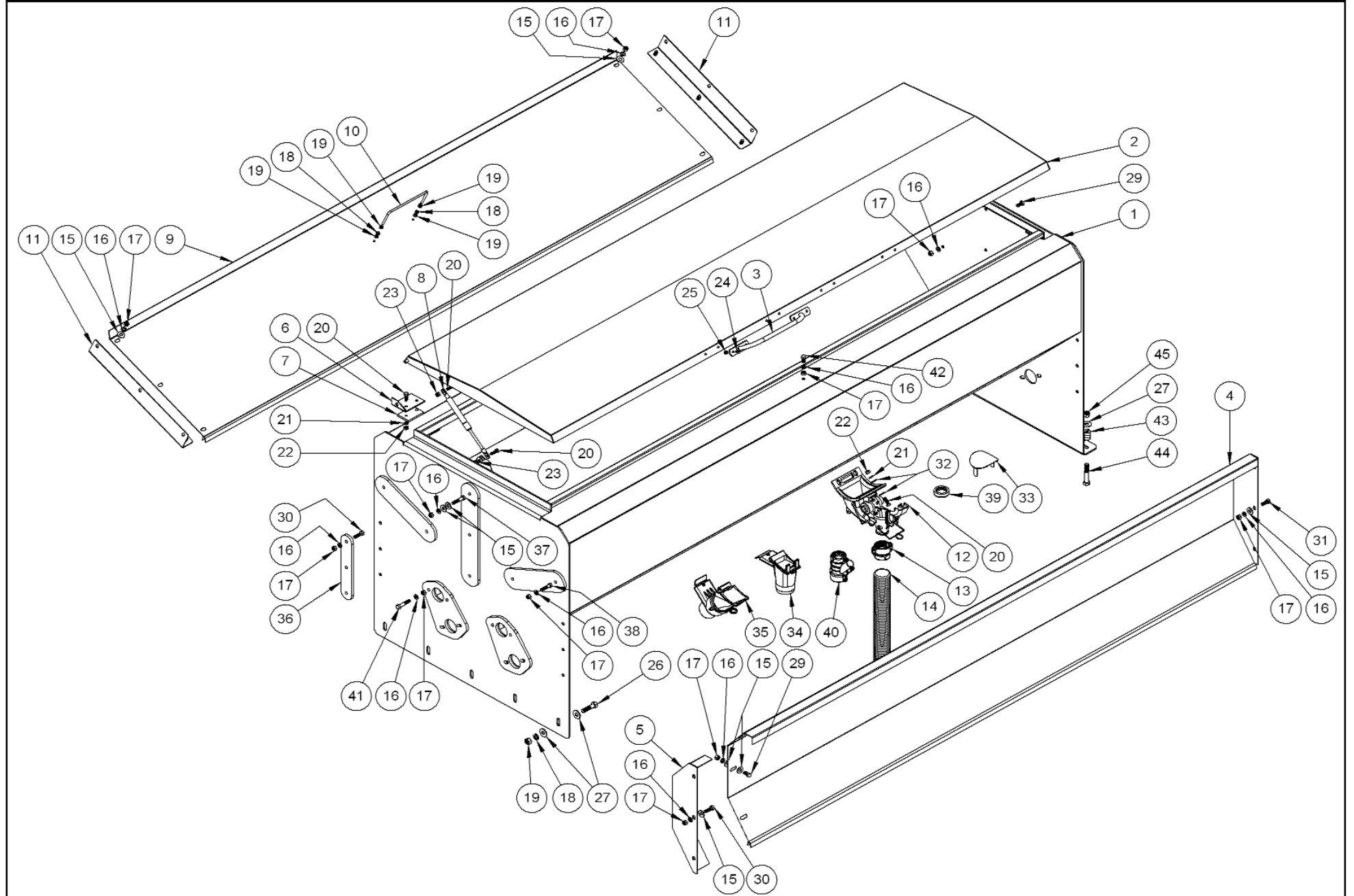
**ROW MARKERS - 7 METERS**

Item	Code	Description	Item	Code	Description
1	16.64.103.00	Right marker initial section	29	18.29.01.001	Straight grease nipple 1/4" NF
1	16.64.092.00	Left marker initial section	30	18.02.10.006	Lock washer, 1/2" - double chrome coated
2	16.65.033.00	Marker support - 2 modules	31	18.16.10.006	Hex nut, BSW 1/2" - double chrome coated
3	16.65.314.00	Marker intermediate section for 20 rows at 400mm and 16 rows at 525mm	32	18.01.10.006	Flat washer 1/2" - double chrome coated
			33	18.03.10.060	Hex head bolt -BSW 1/2" x 3 1/2" - double chrome coated
4	16.64.095.00	Marker final section for 20, 24 and 28 rows at 400mm and 16 rows at 525mm	34	18.16.10.008	Hex nut -BSW 5/8" - double chrome coated
5	16.64.099.01	Anchoring clamp - marker final section	35	18.02.10.008	Lock washer, 5/8" - double chrome coated
6	16.64.093.01	Turning rod - marker final section	36	18.26.01.026	Spring pin, 8 x 50
7	16.64.091.01	Pin - marker initial section turning axle	37	18.18.10.011	Castle nut -SAE 1"- double chrome coated
8	16.64.790.00	Marker shock absorber spring guide	38	18.25.01.007	Split cotter pin 4 x 40
9	16.65.312.00	Supporting bar for marker final section shock absorber	39	18.29.01.002	Straight grease nipple -1/8" BSP
			40	18.03.10.076	Hex head bolt - BSW5/8" x 1 3/4" - double chrome coated
10	16.65.022.01	Clamp for 140 tube	41	18.03.10.084	Hex head bolt - BSW 5/8" x 4"-d. chrome coated
11	16.65.366.00	Marker seat stop holder	42	18.03.10.082	Hex head bolt - BSW 5/8" x 3 1/4"-d. chrome coated
12	16.64.098.00	Vulcanized pad	43	18.37.01.012	Lock nut, 5/8"
13	16.65.322.00	Depth control 16" disk	44	18.38.01.268	Shock absorber spring - marker closure
14	18.35.01.096	Marker 16" disk	45	18.38.01.269	Shock absorber spring - marker opening
15	16.65.320.00	Marker disk hub	46	18.02.10.005	Lock washer, 7/16" - double chrome coated
16	16.65.321.00	Marker axle w/ supporting bracket	47	18.16.10.005	Hex nut - BSW, 7/16" double chrome coated
17	18.01.01.009	Flat washer, 3/4"	48	18.38.01.267	Spring; marker seat (shock absorber)
18	16.64.187.00	Nut - shock absorber stop-end (opening)	49	16.64.792.00	Spring guide tube - marker shock absorber
19	16.64.100.01	Nut - marker shock absorber stop-end	50	18.33.01.012	Bearing 30205
20	18.03.01.053	Hex head bolt - BSW 1/2" x 1 1/2"	51	16.65.431.00	Marker right extension:191mm-7m E.R.(in picture)
21	18.02.01.006	Lock washer, 1/2"	51	16.65.430.00	Marker left extension:191mm-7m E.R.
22	18.16.01.006	Hex nut, BSW 1/2"	52	16.64.791.01	Nut - shock absorber spring stop
23	18.21.01.009	Flat castle nut, SAE 3/4"			
24	18.25.01.003	Split Cotter pin, 3 x 30			
25	16.26.074.00	Disc hub cover support			
26	18.33.01.011	Bearing 30204			
27	18.34.01.109	Grease seal DBH 5171			
28	18.32.01.043	Seeger ring 55.l			



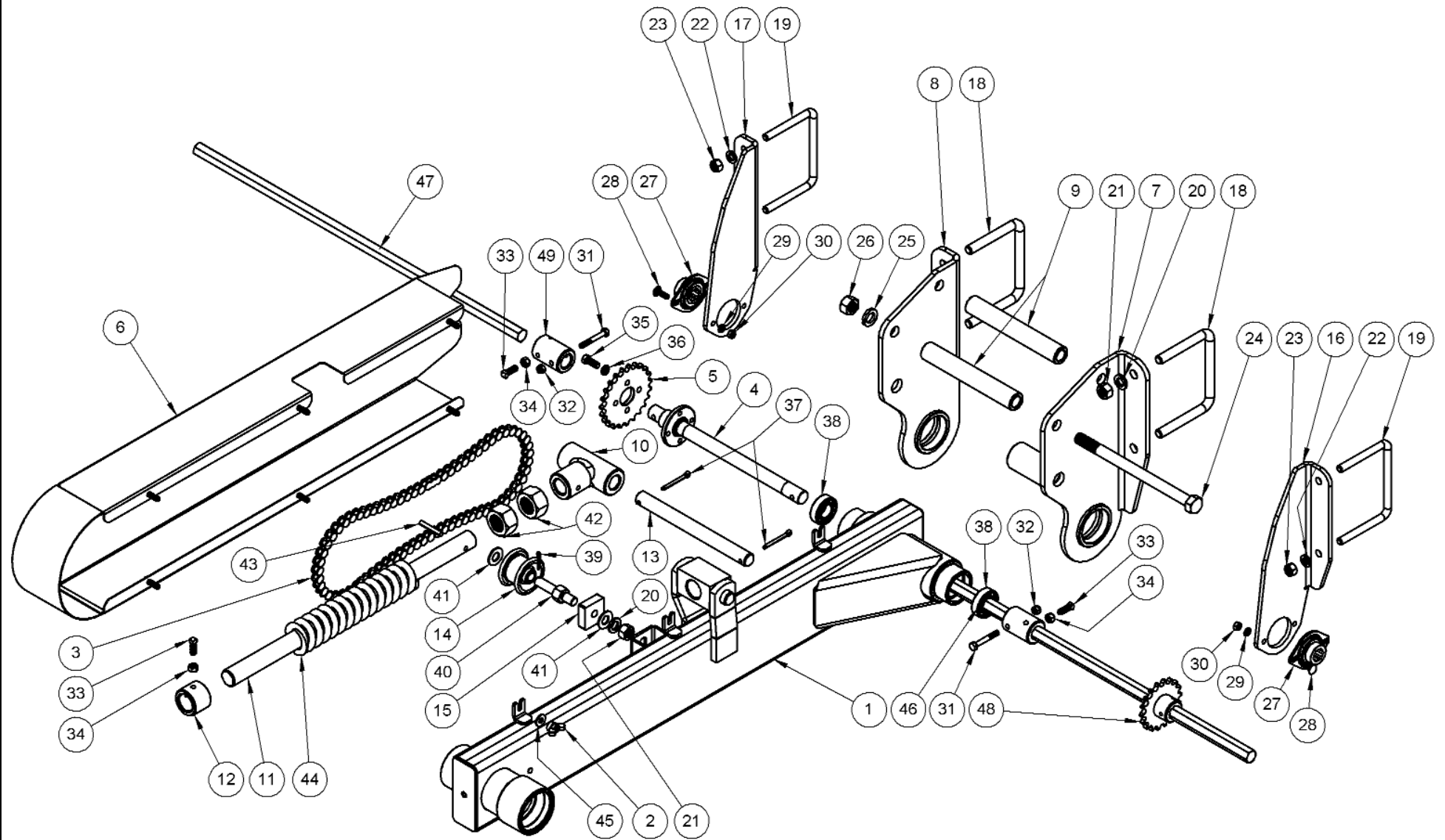
**ROW MARKERS - 10 AND 12 METERS**

Item Code	Description	Item Code	Description
1	16.64.215.00 Left marker initial section	35	16.26.074.00 Disc hub cover support
1	16.64.224.00 Right marker initial section	36	18.21.01.009 Flat castle nut, SAE 3/4"
2	16.64.091.01 Pin - marker initial section turning axle	37	18.25.01.003 Split Cotter pin, 3 x 30
3	16.65.033.00 Soporte marcador 2 módulos	38	18.02.10.006 Lock washer, 1/2" - double chrome coated
4	16.64.093.01 Rod - final section marker turning	39	18.01.10.006 Flat washer 1/2" - double chrome coated
5	16.64.421.00 Left adjustment - marker final section end	40	18.16.10.006 Hex nut, BSW 1/2" - double chrome coated
6	16.64.418.00 Marker beam short adjustment	41	18.16.10.008 Hex nut, BSW 5/8" - double chrome coated
7	16.64.416.00 Beam - for marker 10 meters	42	18.02.10.008 Lock washer, 5/8" - double chrome coated
7	16.65.264.00 Beam - for marker 12 meters	43	18.38.01.267 Spring; marker seat (shock absorber)
8	16.65.316.00 Marker center section for 10 meters	44	18.37.01.012 Lock nut, 5/8"
8	16.65.358.00 Marker center section for 12 meters	45	18.03.10.082 Hex head bolt - BSW 5/8" x 3 1/4"-d. chrome coated
9	16.64.381.10 Roll - shock absorber	46	16.64.793.00 Spring guide tube - 3 sections marker shock absorber
10	16.64.380.01 Pin - roll axle	47	18.33.01.011 Bearing 30204
11	16.33.339.10 Marker shock absorber	48	18.03.10.076 Hex head bolt - BSW 5/8" x 1 3/4"-d. chrome coated
12	16.64.415.00 Arm w/stop-end - marker final section operation	49	18.29.01.002 Straight grease nipple -1/8" BSP
13	16.65.372.00 Marker final section for 10 meters	50	18.18.10.011 Castle nut -SAE 1"- double chrome coated
13	16.65.263.00 Marker final section for 12 meters	51	18.25.01.007 Split Cotter pin 4 x 40
14	16.65.375.00 Disk supporting bar - marker final section for 10 metros	52	18.16.10.009 Hex nut, BSW 3/4" - double chrome coated
14	16.64.495.00 Disk supporting bar - marker final section for 12 metros	53	18.38.01.268 Shock absorber spring - marker closure
15	16.64.099.01 U-bolt - marker final section anchorage	54	18.38.01.285 Shock absorber spring - marker opening
16	18.35.01.096 Marker 16" disk	55	18.25.10.019 Split Cotter pin 6 x 50 d. chrome coated
17	16.65.322.00 Depth control 16" disk	56	18.03.10.149 Hex head bolt - BSW 1" x 9"-d. chrome coated
18	16.65.320.00 Marker hub	57	18.37.01.025 Lock nut, 1"
19	16.65.321.00 Marker axle with supporting braket	58	18.03.10.085 Hex head bolt - BSW 5/8" x 4 1/2"-d. chrome coated
20	18.01.01.009 Flat washer 3/4"	59	18.03.10.065 Hex head bolt - BSW 1/2" x 6"-d. chrome coated
21	16.65.034.00 Supporting bar for marker final section shock absorber	60	18.03.01.053 Hex head bolt - BSW 1/2" x 1 1/2"-d. chrome coated
22	16.64.229.00 Stand - 3-section marker shock absorber	61	18.03.10.061 Hex head bolt - BSW 1/2" x 4"-d. chrome coated
23	16.65.022.01 Clamp for 140 tube	62	18.26.01.026 Spring pin 8 x 50
24	16.64.187.01 Nut - shock absorber stop-end (opening)	63	16.14.079.01 Bushing
25	16.64.100.01 Nut - marker shock absorber stop-end	64	18.03.10.167 Hex head bolt - BSW 7/8" x 2 1/2"-d. chrome coated
26	16.64.382.00 Support - marker stand wheel	65	18.16.10.010 Hex nut, BSW 7/8" - double chrome coated
27	15.64.891.10 4" x 12" wheel - marker seat	66	18.03.10.083 Hex head bolt - BSW 5/8" x 3 1/2"-d. chrome coated
28	16.64.790.00 Marker shock absorber spring guide	67	16.64.791.01 Nut - shock absorber stop-end
29	18.32.01.043 Seeger ring 55.l		
30	18.34.01.109 Grease seal DBH 5171		
31	18.33.01.012 Bearing 302045		
32	18.29.01.001 Straight grease nipple 1/4" NF		
33	18.02.10.006 Lock washer, 1/2" - double chrome coated		
34	18.16.10.006 Hex nut, BSW 1/2" - double chrome coated		



**SEED BOX AND ACCESSORIES**

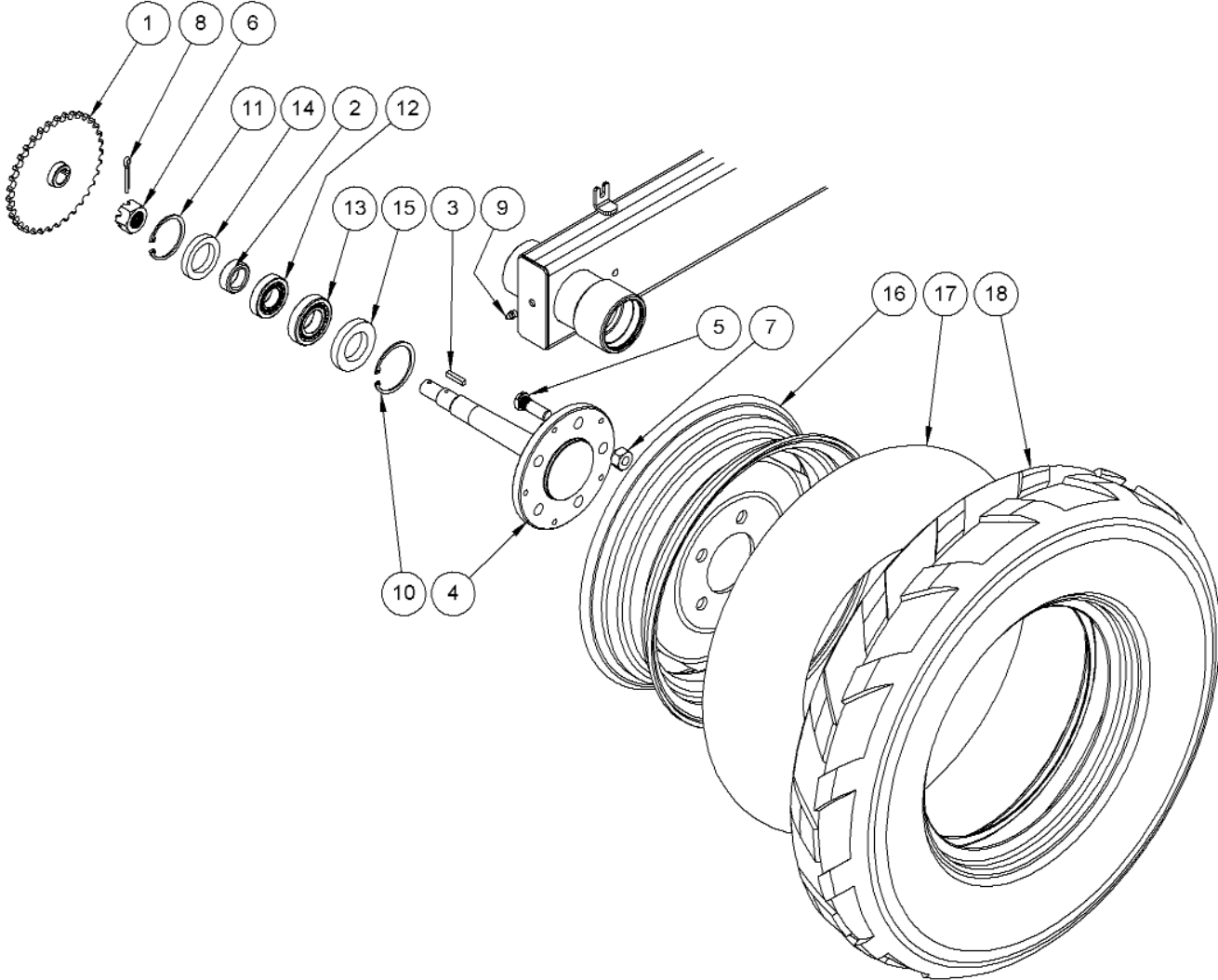
Item	Code	Description	Item	Code	Description
1	16.65.035.00	Right seed/fertilizer box - 30 outlets for 5 and 10 meters	21	18.02.10.003	Lock washer, 5/16" - double chrome coated
1	16.65.039.00	Left seed/fertilizer box - 30 outlets for 5 and 10 meters	22	18.16.10.003	Hex nut -BSW 5/16" - double chrome coated
1	16.65.223.00	Right seed/fertilizer box - 36 outlets for 6 and 12 meters	23	18.37.01.014	Lock nut, 5/16"
1	16.65.247.00	Left seed/fertilizer box - 36 outlets for 6 and 12 meters	24	18.15.01.005	Tank head galvanized screw 1/4"
1	16.65.286.00	Right seed/fertilizer box - 42 outlets for 7 meters	25	18.37.01.010	Lock nut, 1/4"
1	16.65.289.00	Left seed/fertilizer box - 42 outlets for 7 meters	26	18.03.10.055	Hex head bolt BSW 1/2" x 2" - d. chrome coated
2	16.65.036.00	Box lid - 30 outlets	27	18.01.10.006	Flat washer 1/2" - double chrome coated
2	16.65.224.00	Box lid - 36 outlets	28	18.03.10.052	Hex head bolt BSW 1/2" x 1 1/4" - d.chrome coated
2	16.65.287.00	Box lid - 42 outlets	29	18.03.10.030	Hex head bolt BSW 3/8" x 3/4" - d. chrome coated
3	16.52.212.00	Box lid handle	30	18.03.10.032	Hex head bolt BSW 3/8" x 1 1/4" - d.chrome coated
4	16.65.037.00	Box central baffle divider - 30 outlets	31	18.03.10.031	Hex head bolt BSW 3/8" x 1" - d. chrome coated
4	16.65.225.00	Box central baffle divider - 36 outlets	32	18.01.10.003	Flat washer 5/16" - double chrome coated
4	16.65.288.00	Box central baffle divider - 42 outlets	33	16.56.075.01	Box discharge outlet cover
5	16.65.038.00	Baffle end	34	15.65.861.10	Seed meter coupler for coarse grains planting
6	16.33.157.01	Box right hinge base	35	15.65.728.10	Seed discharge outlet coupler w/ detachable closure
6	16.33.156.01	Box left hinge base	36	16.65.368.00	Boxes linkage supplement
7	16.33.346.00	Box lid turning base inner strengthener	37	18.03.10.034	Hex head bolt BSW 3/8" x 1 3/4" - d.chrome coated
8	15.52.823.10	Box lid Gas spring 185-270	38	18.03.10.033	Hex head bolt BSW 3/8" x 1 1/2" - d.chrome coated
9	16.65.324.00	Seeds drop baffle	39	16.65.216.10	Outlet cover - Chevron wheel type meter
10	16.33.617.00	Baffle handle	40	15.65.904.10	Seeds/fertilizer/alfalfa discharge outlet hose coupler
11	16.65.326.00	Baffle end linkage	41	18.03.10.035	Hex head bolt BSW 3/8" x 2" - d. chrome coated
12	15.54.932.10	Assembled feeder	42	18.03.10.029	Hex head bolt BSW 3/8" x 5/8" - d. chrome coated
13	15.65.835.10	Discharge outlet hose coupler	43	18.38.01.292	Spring: box/mainframe anchor
14	16.65.138.00	Seeds discharge tube	44	18.03.10.059	Hex head bolt BSW 1/2" x 3" - d. chrome coated
14	16.65.139.00	Fertilizer discharge tube	45	18.37.01.013	Lock nut, 1/2"
15	18.01.10.004	Flat washer 3/8" - double chrome coated			
16	18.02.10.004	Lock washer, 3/8" - double chrome coated			
17	18.16.10.004	Hex nut -BSW 3/8" - double chrome coated			
18	18.02.10.006	Lock washer, 1/2" - double chrome coated			
19	18.16.10.006	Hex nut -BSW 1/2" - double chrome coated			
20	18.03.10.018	Hex head bolt - BSW 5/16" x 1" - double chrome coated			



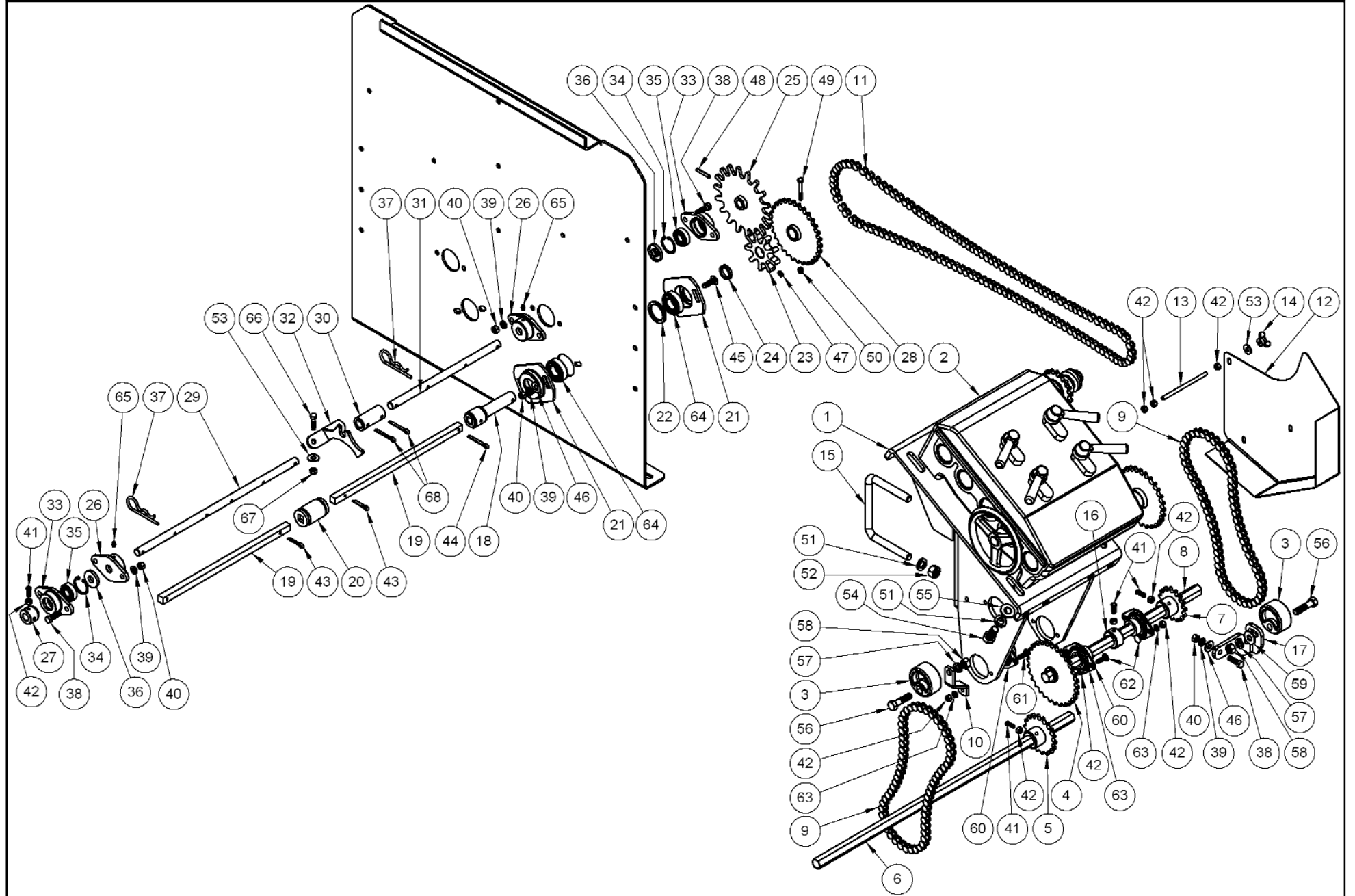
**DRIVE WHEEL FORK**

Item Code	Description	Item Code	Description
1	16.65.118.00 Drive wheel fork	32	18.37.01.014 Lock nut BSW 5/16"
2	16.17.160.10 Wing nut	33	18.06.10.031 Square head bolt BSW 3/8" x 1"d.chrome coated
3	16.65.121.00 Drive gear sprocket chain	34	18.16.10.004 Hex nut -BSW 3/8" double chrome coated
4	16.65.140.01 Rod - drive wheel pivot axle	35	18.03.10.030 Hex head bolt BSW 3/8"x 3/4" d. chrome coated
5	16.65.141.01 Driven gear sprocket -Z:23	36	18.02.10.004 Lock washer -3/8" double -chrome coated
6	16.65.150.00 Drive wheel chain shield	37	18.25.01.019 Split cotter pin 6 x 50
7	16.65.151.00 Support - right side transmission	38	18.33.01.003 Bearing 6205 2RS
8	16.65.152.00 Support - left side transmission	39	18.25.01.003 Split cotter pin -3 x 30
9	16.65.153.01 Spacer bushing - transmission side support	40	16.65.352.01 Pulley axle: drive wheel tensioner
10	16.61.020.00 Bushing - download spring rod guide	41	18.01.10.008 Flat washer -5/8" double chrome coated
11	16.61.022.01 Spring guide - transmission wheel	42	18.16.10.013 Hex nut -BSW 1 1/4" double chrome coated
12	16.61.023.00 Download spring guide stopper	43	18.26.01.026 Spring pin 8 x 50
13	16.65.143.01 Guiding spring pivot axle	44	18.38.01.283 Spring: drive wheel operation
14	16.65.353.00 Pulley - drive wheel chain tensioner	45	18.01.10.003 Flat washer -5/16" double chrome coated
15	16.65.351.00 Plate - chain tensioning pulley	46	16.65.158.01 Right drive shaft - 5 meter mainframe
16	16.65.155.00 Left inner support: drive shaft housing	46	16.65.245.01 Right drive shaft - 6 meter mainframe
17	16.65.156.00 Right inner support: drive shaft housing	46	16.65.302.01 Right drive shaft - 7 meter mainframe
18	16.65.022.01 Clamp for 140 tube	47	16.65.159.01 Left drive shaft - 5 meter mainframe
19	16.65.049.01 1/2" calmp for 140 tube	47	16.65.246.01 Left drive shaft - 6 meter mainframe
20	18.02.10.008 Lock washer -5/8" double -chrome coated	47	16.65.303.01 Left drive shaft - 7 meter mainframe
21	18.16.10.008 Hex nut -BSW 5/8" double chrome coated	48	16.65.160.01 Gear sprocket Z:18 - hex transmission shaft
22	18.02.10.006 Lock washer -1/2" double -chrome coated	49	16.65.142.01 Drive shafts linkage
23	18.16.10.006 Hex nut -BSW 1/2" double chrome coated		
24	18.03.10.201 Hex head bolt BSW 3/4"x 11" d. chrome coated		
25	18.02.10.009 Lock washer -3/4" double -chrome coated		
26	18.16.10.009 Hex nut -BSW 3/4" double chrome coated		
27	18.33.01.108 Bearing 205 for 22 hex		
28	18.04.10.018 Round head, square neck bolt - BSW 5/16" x 1" double chrome coated		
29	18.02.10.003 Lock washer -5/16" double -chrome coated		
30	18.16.10.003 Hex nut -BSW 5/16" double chrome coated		
31	18.03.10.023 Hex head bolt BSW 5/16"x 2 1/4" d. chrome coated		



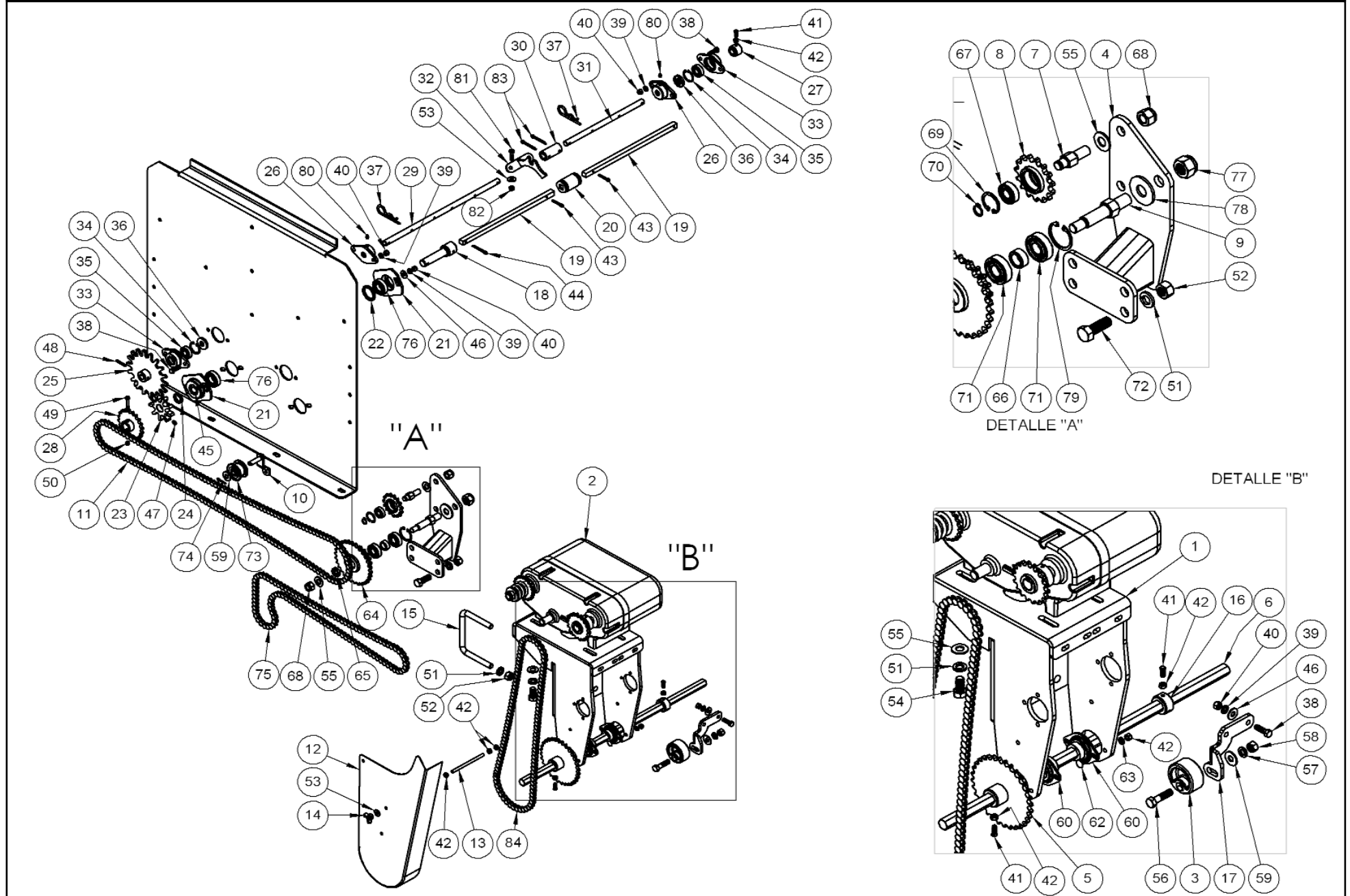






**DRILLING TRANSMISSION SYSTEM**

Item	Code	Description	Item	Code	Description
1	16.65.157.00	Supporting base for 54-shift gearbox	32	16.65.047.00	Remover shaft center holder
2	15.64.960.10	Right 54-shift gearbox	33	16.52.096.00	Bearing housing - remover shaft
3	16.64.062.10	Roller chain tensioning lobe	34	18.32.01.010	Seeger ring 40.l
4	16.64.071.01	Gear sprocket Z:30 drive shaft, hex centerd	35	18.33.01.033	Bearing 6203 2RS
5	16.65.160.01	Gear sprocket Z:18 drive shaft, hex centerd	36	18.34.01.060	Grease seal SAV 5050
6	-----	Transmission shaft ( <i>See Drive wheel</i> )	37	18.27.01.004	"R" clip pin 5 x 90
7	16.65.161.01	Gear sprocket Z:15 drive shaft, hex centerd	38	18.03.10.032	Hex head bolt - BSW 3/8" x 1 1/4" double-chrome coated
8	16.65.162.01	Secondary shaft - drill transmission	39	18.02.10.004	Lock washer - 3/8" double -chrome coated
9	16.65.163.00	Transmission chain: drive shaft - secondary shaft	40	18.16.10.004	Hex nut BSW 3/8" double-chrome coated
10	16.65.169.01	Tensioner arm	41	18.06.10.013	Square head bolt BSW 5/16" x 3/4" d. chrome coated
11	16.65.171.00	Transmission chain: gearbox - sowing axle	42	18.16.10.003	Hex nut BSW 5/16"- double chrome coated
12	16.65.190.00	Chain shield, 54-shift gearbox	43	18.25.01.011	Split cotter pin 5 x 40
13	16.65.192.01	197mm chain shield spacer axle	44	18.25.01.013	Split cotter pin 5 x 60
14	16.17.160.10	Wing nut	45	18.04.10.032	Round head square neck bolt-BSW 3/8" x 1 1/4" d. ch. coated
15	16.65.022.01	Clamp for 140 tube	46	18.01.10.004	Flat washer -3/8" double chrome coated
16	16.64.066.01	Bushing - drive shaft stop-end	47	18.09.02.015	Allen set screws 5/16" x 1/2"
17	16.64.058.01	Right bracket - tensioning lobe (planting)	48	18.26.01.018	Spring pin 6 x 40
18	16.52.090.01	Gear end - feeder drive	49	18.03.10.012	Hex head bolt - BSW 1/4" x 2" double-chrome coated
19	16.65.040.01	Metering system shaft for 5 meters frame	50	18.37.01.010	Lock nut BSW 1/4"
19	16.65.228.01	Metering system shaft for 6 meters frame	51	18.02.10.008	Lock washer - 5/8" double -chrome coated
19	16.65.290.01	Metering system shaft for 7 meters frame	52	18.16.10.008	Hex nut BSW 5/8"- double chrome coated
20	16.65.044.01	Short bushing -feeder shaft guide	53	18.01.10.003	Flat washer -5/16" double chrome coated
21	16.54.066.00	Bearing housing -fertilizer feeder shaft	54	18.03.10.074	Hex head bolt - BSW 5/8" x 1 1/4" double-chrome coated
22	16.54.137.00	Long bearing housing spacer	55	16.64.572.01	Washer - coulter support
23	16.52.092.01	Drive sprocket: seeds and fertilizer remover	56	18.03.10.055	Hex head bolt - BSW 1/2" x 2" double-chrome coated
24	16.52.095.01	Spacer ring - sprocket/ feeder shaft	57	18.02.10.006	Lock washer - 1/2" double -chrome coated
25	16.52.097.01	Remover, driven sprocket D.18 w/hub	58	18.16.10.006	Hex nut BSW 1/2"- double chrome coated
26	16.66.022.00	Inner bearing housing - remover shaft	59	18.01.10.006	Flat washer -1/2" double chrome coated
27	16.52.099.01	Remover shaft stop-end	60	18.33.01.108	Bearing 205 for hex - w/metal plate housing
28	16.65.042.01	Gear sprocket Z:30 P.5/8" feeder shaft	61	18.04.10.019	Round head square neck bolt-BSW 5/16" x 1 1/4" d. ch. coated
29	16.65.045.01	Long remover shaft for 5 meters frame	62	18.04.10.018	Round head square neck bolt-BSW 5/16" x 1" d. ch. coated
29	16.65.229.01	Long remover shaft for 6 meters frame	63	18.02.10.003	Lock washer - 5/16" double -chrome coated
29	16.65.306.01	Long remover shaft for 7 meters frame	64	18.33.01.003	Bearing 6205 2RS
30	16.65.048.01	Remover shafts linkage	65	18.29.01.001	Straight grease nipple 1/4" NF
31	16.65.046.01	Short remover shaft for 5 meters frame	66	18.03.10.019	Hex head bolt - BSW 5/16" x 1 1/4" d. chrome coated
31	16.65.230.01	Short remover shaft for 6 meters frame	67	18.37.01.014	Lock nut BSW 5/16"
31	16.65.307.01	Short remover shaft for 7 meters frame	68	18.25.01.012	Split cotter pin 5 x 50



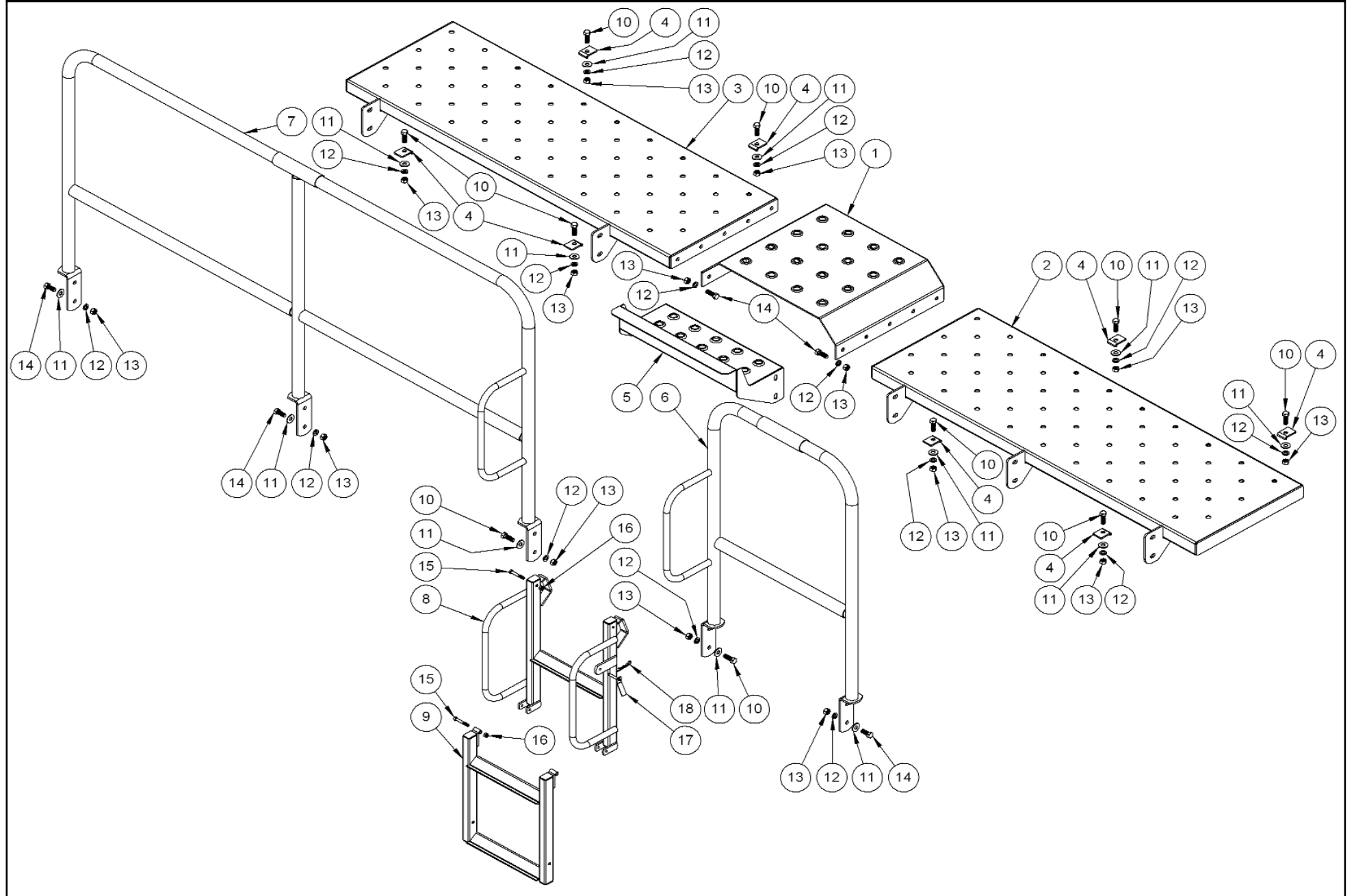
**FERTILIZER TRANSMISSION SYSTEM**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	16.65.164.00	Variator gearbox support	31	16.65.046.01	Short remover shaft for 5 meters frame
2	15.64.820.00	Right gearbox w/mechanical adjustment	31	16.65.230.01	Short remover shaft for 6 meters frame
3	16.64.062.10	Roller chain tensioning lobe	31	16.65.307.01	Short remover shaft for 7 meters frame
4	16.65.166.00	Support for inverter gear sprocket	32	16.65.047.00	Remover shaft center support
5	16.65.167.01	Gear sprocket Z:15 drive shaft, hex centerd	33	16.52.096.00	Bearing housing - remover shaft
6	-----	Drive shaft ( <i>See drive wheel</i> )	34	18.32.01.010	Seeger ring 40.I
7	16.64.080.01	Reversing gear sprocket shaft	35	18.33.01.033	Bearing 6203 2RS
8	16.64.079.01	Reversing gear sprocket Z:15 P.5/8"	36	18.34.01.060	Grease seal SAV 5050
9	16.64.076.01	Shaft - double sprocket Z:17 turning	37	18.27.01.004	"R" clip pin 5 x 90
10	16.65.336.01	Seed/Fertilizer drive chain tensioner	38	18.03.10.032	Hex head bolt - BSW 3/8" x 1 1/4" double-chrome coated
11	16.65.170.00	Drive chain: inverter gear sprocket/fertilizer axle	39	18.02.10.004	Lock washer - 3/8" double -chrome coated
12	16.65.193.00	Variator gearbox chain shield	40	18.16.10.004	Hex nut BSW 3/8" double-chrome coated
13	16.65.191.01	Chain shield 138mm spacer axle	41	18.06.10.013	Square head bolt BSW 5/16" x 3/4" d. chrome coated
14	16.17.160.10	Wing nut	42	18.16.10.003	Hex nut BSW 5/16"- double chrome coated
15	16.65.022.01	Clamp for 140 tube	43	18.25.01.011	Split cotter pin 5 x 40
16	16.64.066.01	Bushing - drive shaft stop-end	44	18.25.01.013	Split cotter pin 5 x 60
17	16.65.354.01	Bracket - variator tensioning lobe support	45	18.04.10.032	Round head square neck bolt-BSW 3/8" x 1 1/4" d. ch. coated
18	16.52.090.01	Gear end - feeder drive	46	18.01.10.004	Flat washer -3/8" double chrome coated
19	16.65.040.01	Metering system shaft for 5 meters frame	47	18.09.02.015	Allen set screws 5/16" x 1/2"
19	16.65.228.01	Metering system shaft for 6 meters frame	48	18.26.01.018	Spring pin 6 x 40
19	16.65.290.01	Metering system shaft for 7 meters frame	49	18.03.10.012	Hex head bolt - BSW 1/4" x 2" double-chrome coated
20	16.65.044.01	Short bushing - feeder axle guide	50	18.37.01.010	Lock nut BSW 1/4"
21	16.54.066.00	Bearing housing -fertilizer feeder shaft	51	18.02.10.008	Lock washer - 5/8" double -chrome coated
22	16.54.137.00	Long bearing housing spacer	52	18.16.10.008	Hex nut BSW 5/8"- double chrome coated
23	16.52.092.01	Drive sprocket: seeds and fertilizer remover	53	18.01.10.003	Flat washer -5/16" double chrome coated
24	16.52.095.01	Spacer ring - sprocket/ feeder shaft	54	18.03.10.074	Hex head bolt - BSW 5/8" x 1 1/4" double-chrome coated
25	16.52.097.01	Remover, driven sprocket D.18 w/hub	55	18.01.10.008	Flat washer -5/8" double chrome coated
26	16.66.022.00	Inner bearing housing - remover shaft	56	18.03.10.055	Hex head bolt - BSW 1/2" x 2" double-chrome coated
27	16.52.099.01	Remover shaft stop-end	57	18.02.10.006	Lock washer - 1/2" double -chrome coated
28	16.65.043.01	Gear sprocket Z:20 P.5/8" fertilizer feeder shaft	58	18.16.10.006	Hex nut BSW 1/2"- double chrome coated
28	16.65.377.01	Gear sprocket Z:35 P.5/8" fertilizer feeder shaft	59	18.01.10.006	Flat washer -1/2" double chrome coated
29	16.65.045.01	Long remover shaft for 5 meters frame	60	18.33.01.108	Bearing 205 for hex - w/metal plate housing
29	16.65.229.01	Long remover shaft for 6 meters frame	61	18.04.10.019	Round head square neck bolt-BSW 5/16" x 1 1/4" d. ch. coated
29	16.65.306.01	Long remover shaft for 7 meters frame	62	18.04.10.018	Round head square neck bolt-BSW 5/16" x 1" d. ch. coated
30	16.65.048.01	Remover shaft linkage	63	18.02.10.003	Lock washer - 5/16" double -chrome coated



Picture N° 13

WALKBOARDS AND HANDRAILS - 1 MODULE - 5 METERS

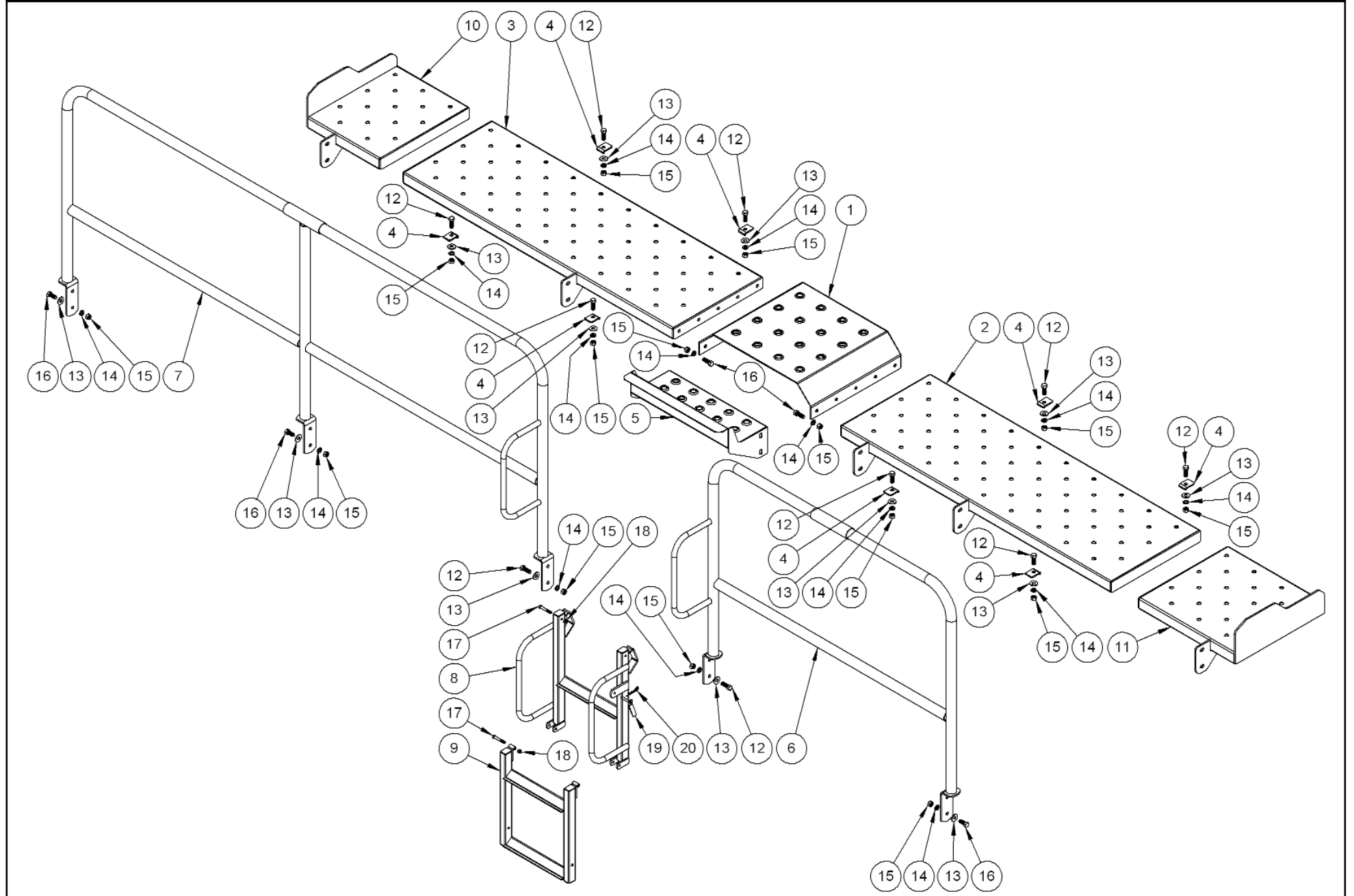






Picture N° 14

WALKBOARDS AND HANDRAILS - 1 MODULE - 6 METERS



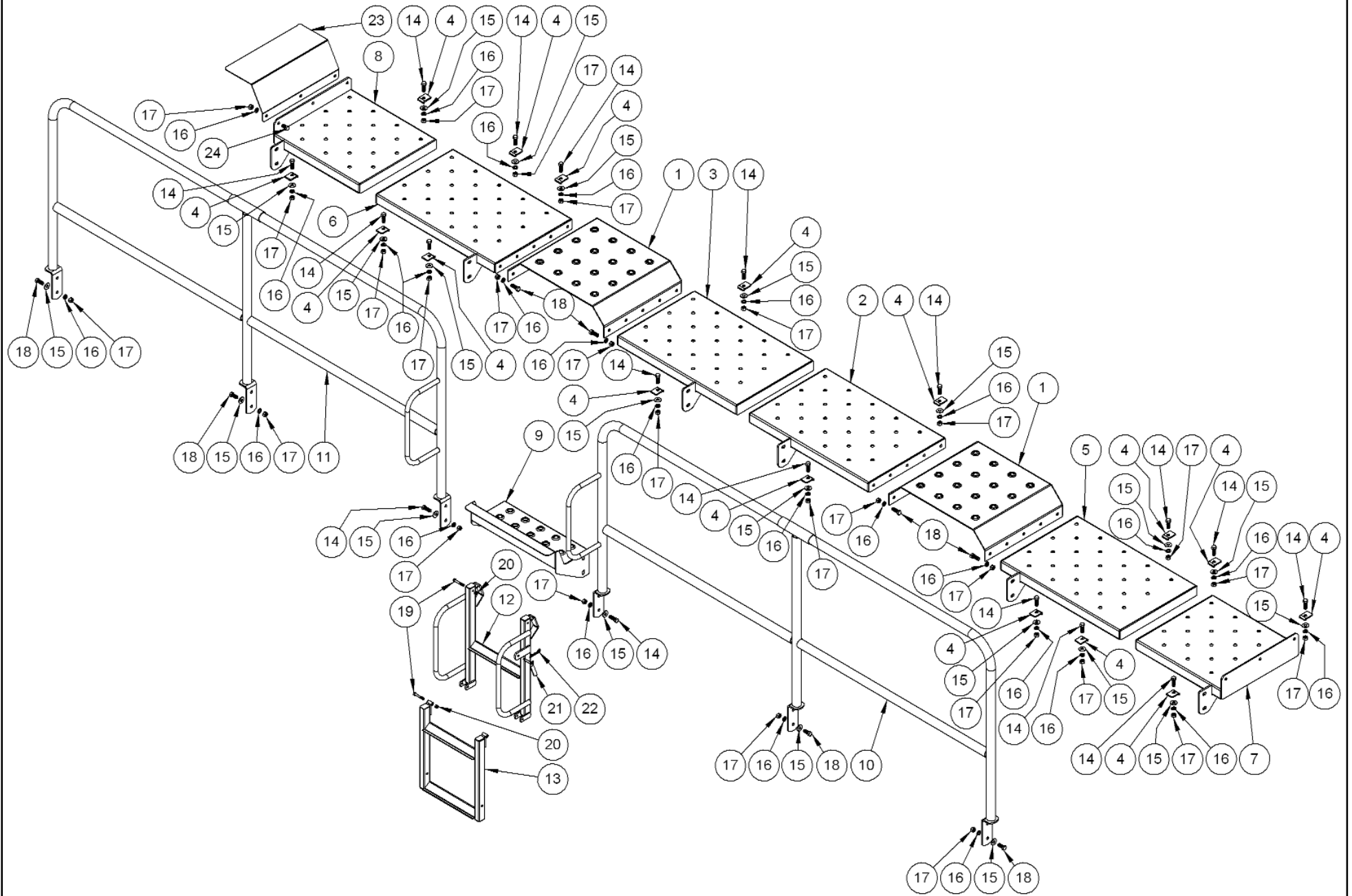
**WALKBOARDS AND HANDRAILS - 1 MODULE - 6 METERS**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	16.65.133.00	Walkboards bridge			
2	16.65.234.00	Long right walkboard for 6 meters frame			
3	16.65.233.00	Long left walkboard for 6 meters frame			
4	16.64.075.01	Walkboard lock			
5	16.65.134.00	Supplement walkboard			
6	16.65.232.00	Right walkboard handrail for 6 meters frame			
7	16.65.231.00	Left walkboard handrail for 6 meters frame			
8	16.65.135.00	Ladder upper section			
9	16.65.136.00	Ladder lower section			
10	16.65.235.00	Short left walkboard for 6 meters frame			
11	16.65.239.00	Short right walkboard for 6 meters frame			
12	18.03.10.053	Hex head bolt - BSW 1/2" x 1 1/2" d.chrome coated			
13	18.01.10.006	Flat washer -1/2" double chrome coated			
14	18.02.10.006	Lock washer - 1/2" double -chrome coated			
15	18.16.10.006	Hex nut BSW 1/2"- double chrome coated			
16	18.03.10.052	Hex head bolt - BSW 1/2" x 1 1/4" d.chrome coated			
17	18.03.10.023	Hex head bolt - BSW 5/16" x 2 1/4" d.chrome coated			
18	18.37.01.014	Lock nut BSW 5/16"			
19	16.53.074.01	Pin - ladder lock			
20	18.27.01.001	"R" clip pin 3 x 70			

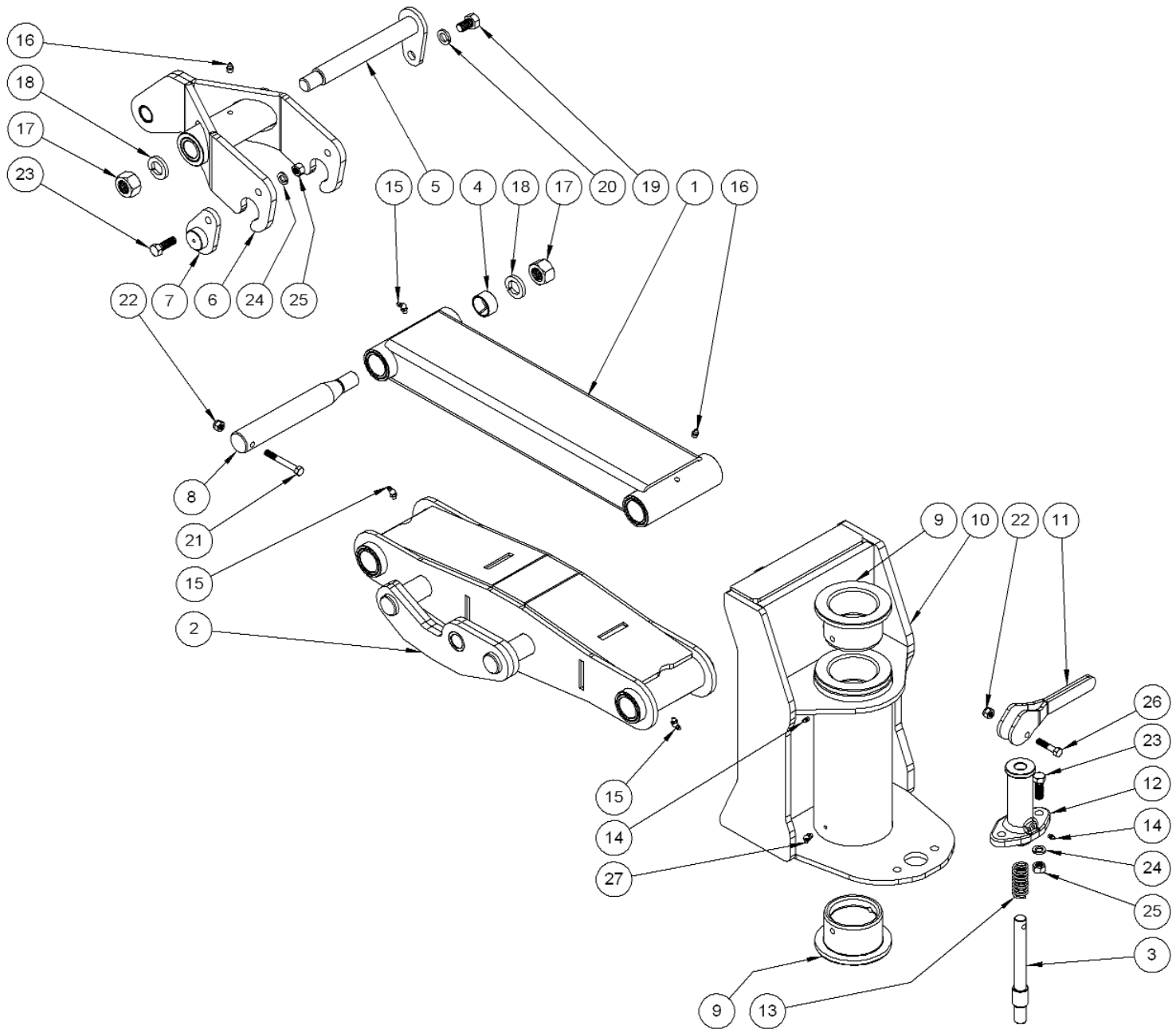
**NOTE: THE SAME SPARE PARTS LAYOUT IS USED AT 12-METER, 2-MODULE MAINFRAME**

Picture N° 15

WALKBOARDS AND HANDRAILS - 1 MODULE - 7 METERS

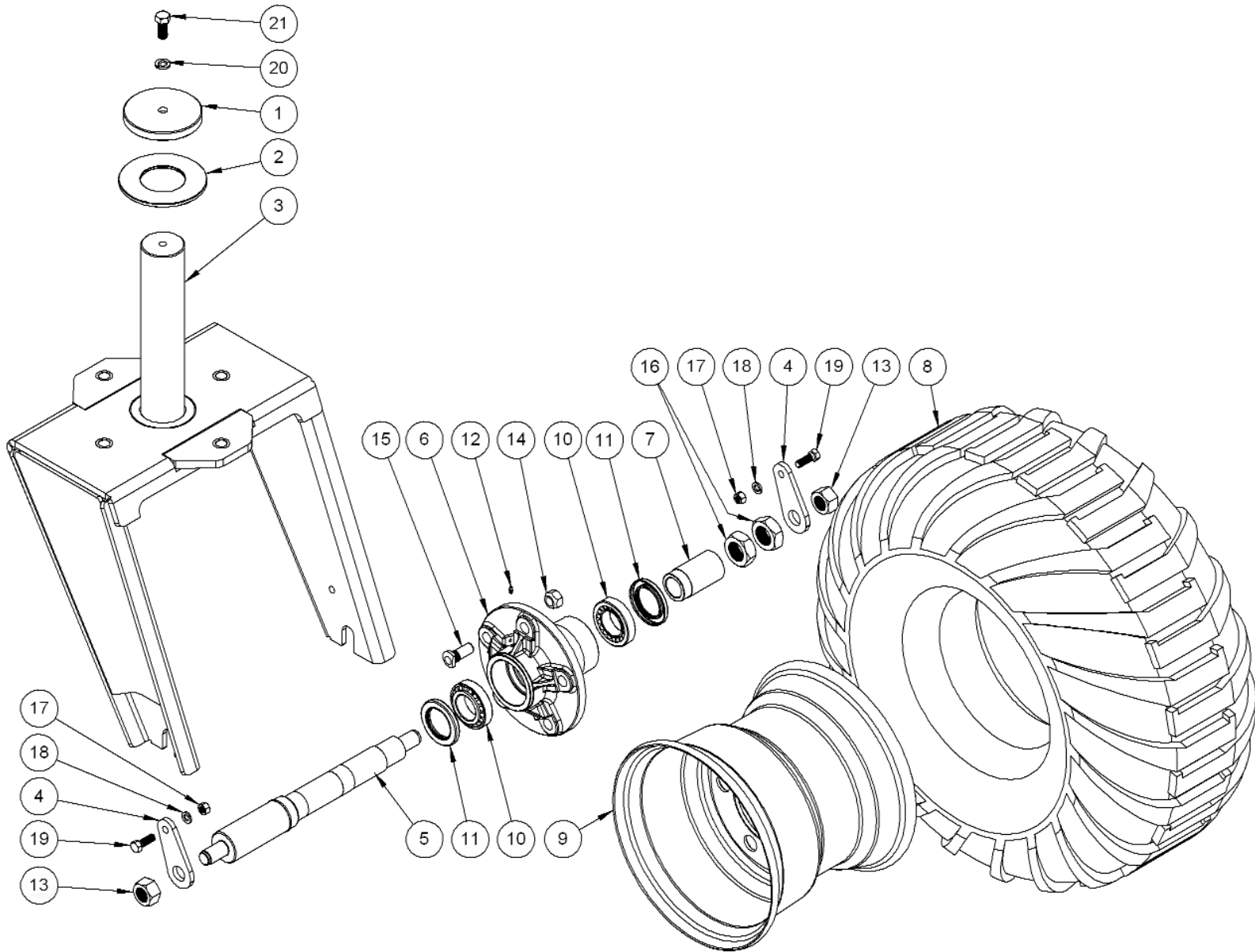






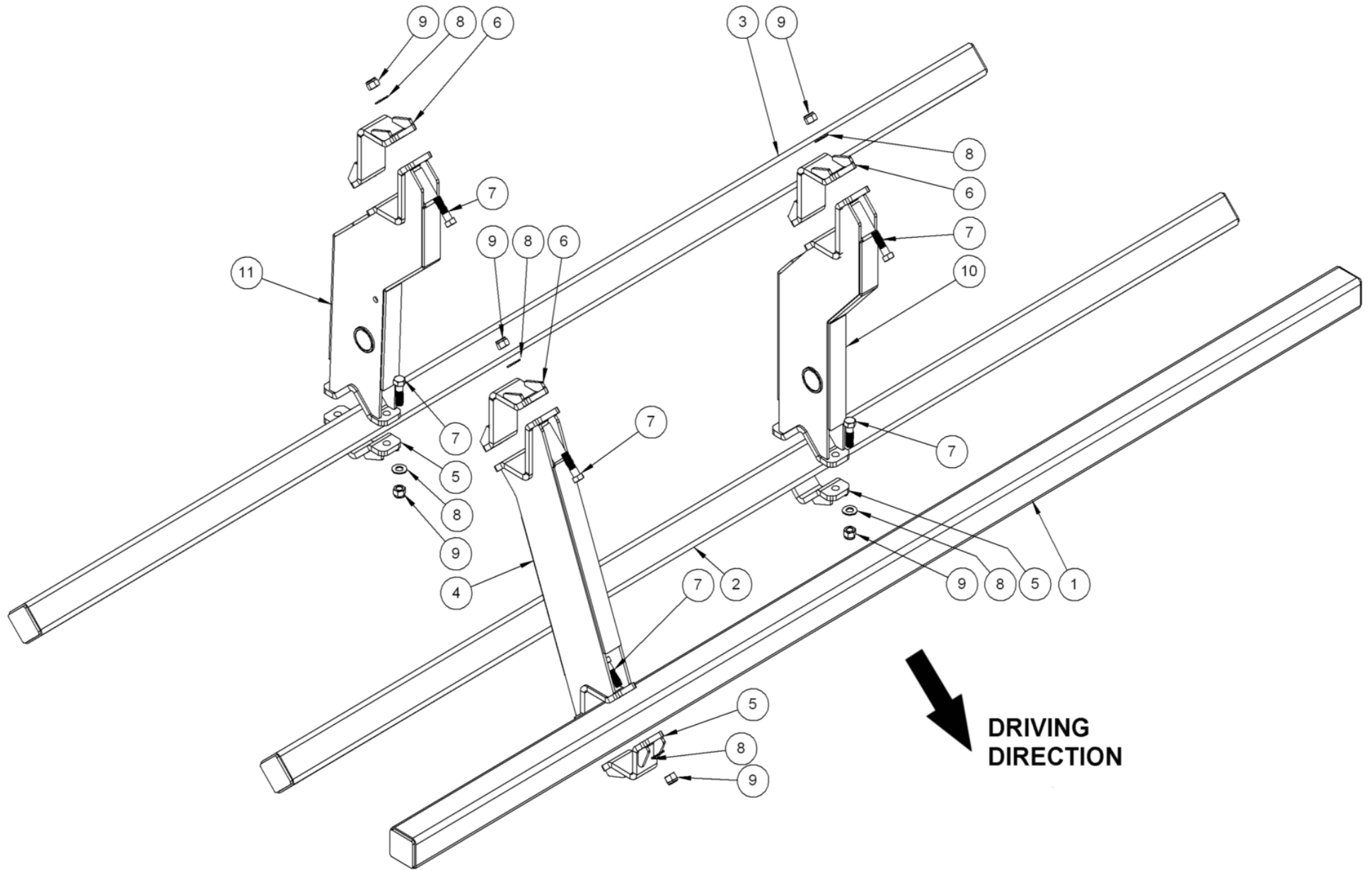
PARALLEL ARMS

Item	Code	Description	Item	Code	Description
1	16.64.021.00	Upper parallel arm			
2	16.65.310.00	Right lower parallel arm			
2	16.65.309.00	Left lower parallel arm			
3	16.64.032.01	Pin - wheel turning lock			
4	16.64.027.00	Bushing - parallel arm pivot axle adjustment			
5	16.64.039.01	Rod - rocker pivot axle			
6	16.64.038.00	Rocking yoke - compensator cylinder holder			
7	16.64.174.01	Lock for wheels operating cylinder			
8	16.64.026.01	Rod - parallel arm pivot axle			
9	16.33.933.10	Inner bushing - wheel turning			
10	16.64.025.00	Right housing - fork turning			
10	16.64.024.00	Left housing - fork turning			
11	16.64.033.01	Handle - fork turning lock operation			
12	16.64.031.00	Support for wheel fork turning lock			
13	18.38.01.265	Spring - fork lock operation			
14	18.29.01.001	Straight grease nipple -1/4" NF			
15	18.30.01.002	45° grease nipple - 1/8" BSP			
16	18.29.01.002	Straight grease nipple - 1/8" BSP			
17	18.16.10.011	Hex nut -BSW 1" double-chrome coated			
18	18.02.10.011	Lock washer -1" double-chrome coated			
19	18.03.10.073	Hex head bolt - BSW 5/8" x 1" double-chrome coated			
20	18.02.10.008	Lock washer - 5/8" double-chrome coated			
21	18.03.05.039	Hex head bolt - BSW G5 - 3/8" x 3"			
22	18.37.01.011	Lock nut -3/8"			
23	18.03.10.053	Hex head bolt -BSW 1/2" x 1 1/2" d. chrome coated			
24	18.02.10.006	Lock washer -1/2" double-chrome coated			
25	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated			
26	18.03.10.035	Hex head bolt -BSW 3/8" x 2" double-chrome coated			
27	18.30.01.001	45° grease nipple 1/4"NF			







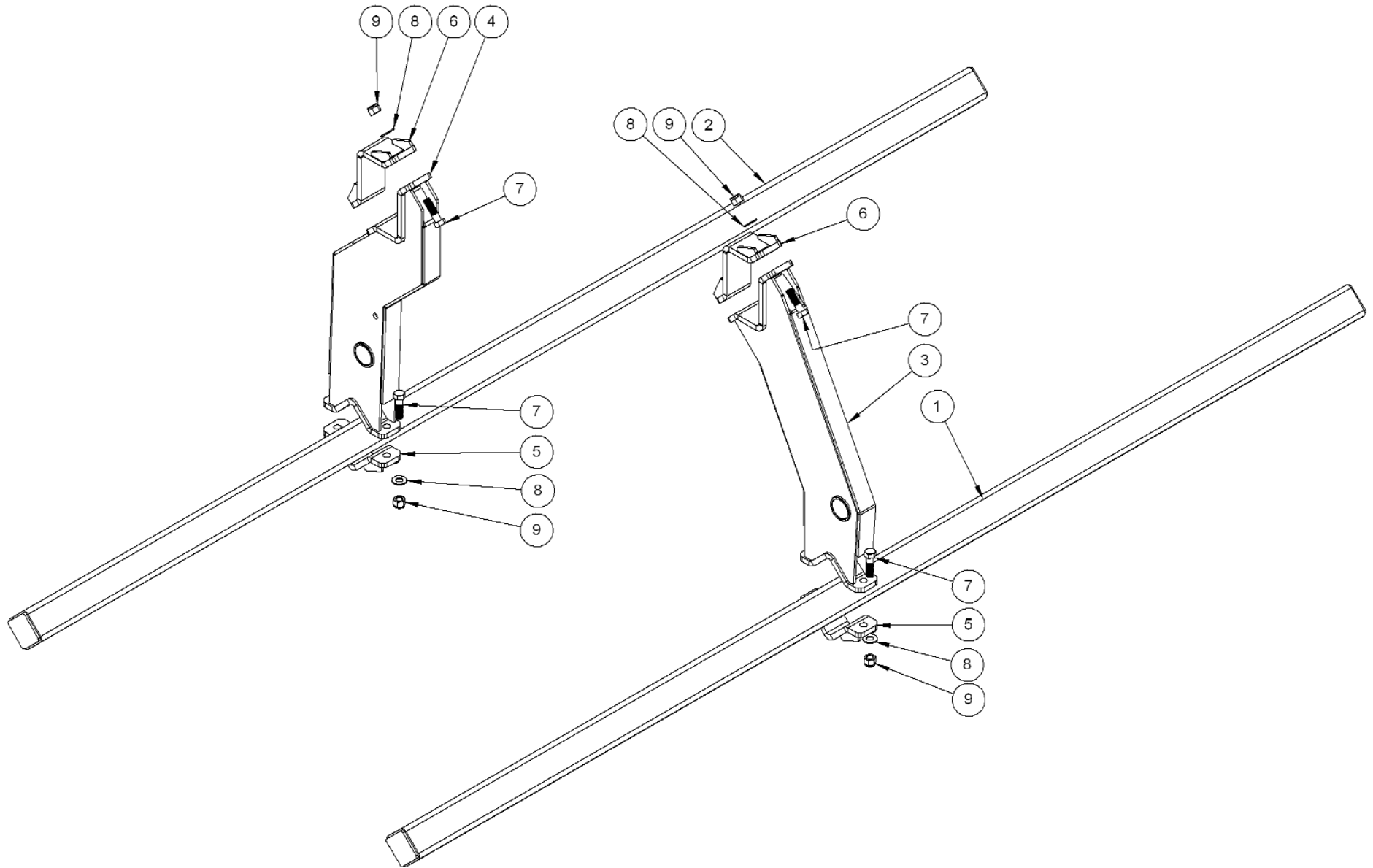


**TOOLBAR**

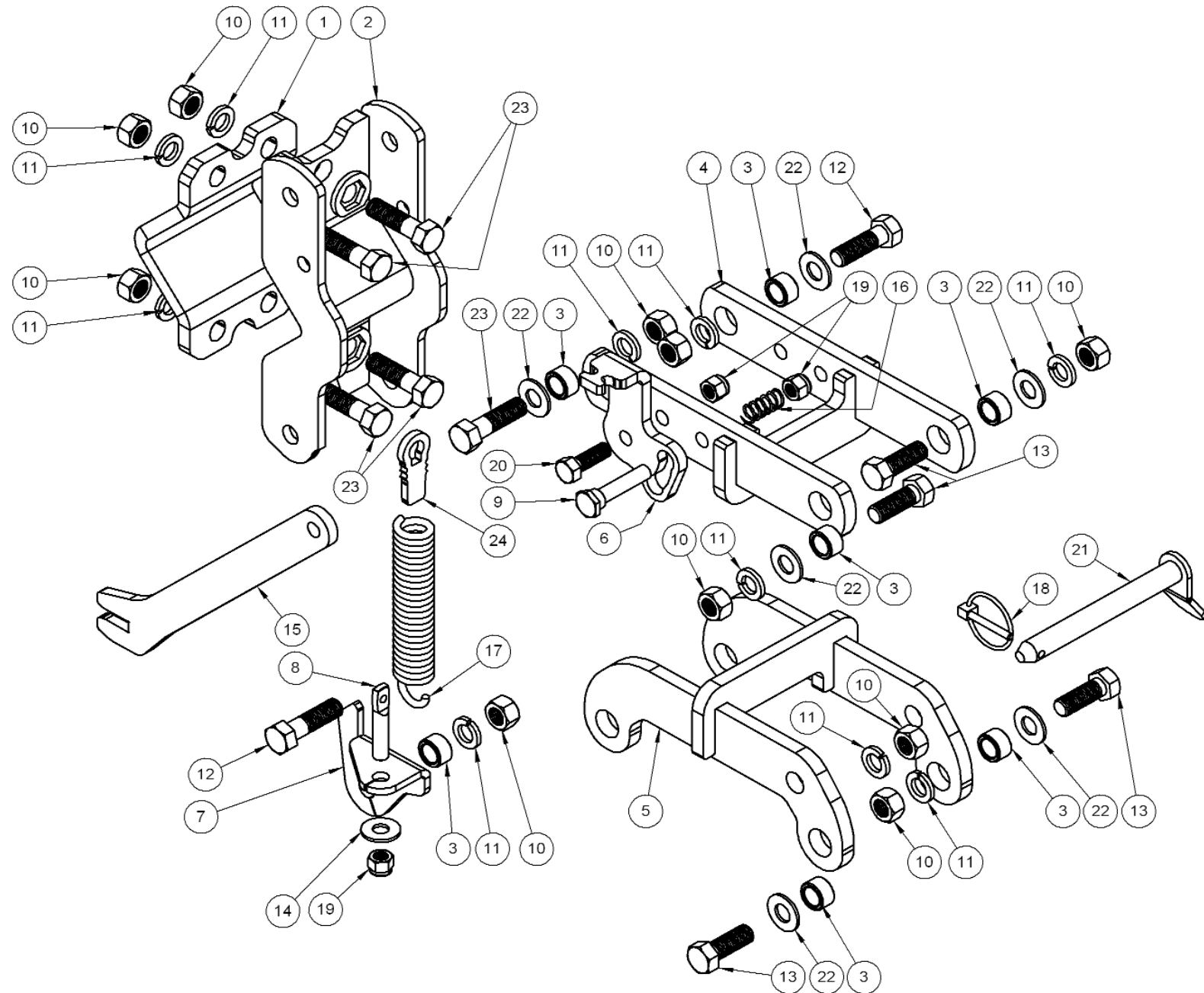
Item	Code	Description	Item	Code	Description
1	16.65.112.00	Toolbar: 5185mm long (for 5 meters)			
1	16.65.254.00	Toolbar: 6330mm long (for 6 m)			
1	16.65.300.00	Toolbar: 7245mm long (for 7 m)			
1	16.65.112.00	Toolbar: 5185mm long (for 10 m - right.)			
1	16.65.116.00	Toolbar: 5380mm long (for 10 m - left.)			
1	16.65.255.00	Toolbar: 6250mm long (for 12 m - right)			
1	16.65.254.00	Toolbar: 6330mm long (for 12 m - left)			
2	16.65.114.00	Toolbar: 5040mm long (for 5 m)			
2	16.65.254.00	Toolbar: 6330mm long (for 6 m)			
2	16.65.301.00	Toolbar: 6896mm long (for 7 m)			
2	16.65.114.00	Toolbar: 5040mm long (for10 m - right)			
2	16.65.108.00	Toolbar: 5286mm long (for10m -left)			
2	16.65.254.00	Toolbar: 6330mm long (for12m - right.)			
2	16.65.254.00	Toolbar: 6330mm long (for12m - left.)			
3	16.65.108.00	Toolbar: 5286mm long long (for 5 m)			
3	16.65.253.00	Toolbar: 5950mm long (for 6 m)			
3	16.65.300.00	Toolbar: 7245mm long (for 7 m)			
3	16.65.108.00	Toolbar: 5286mm long (for 10 m - right.)			
3	16.65.108.00	Toolbar: 5286mm long (for 10 m - left.)			
3	16.65.254.00	Toolbar: 6330mm long ( for 12 m - left)			
3	16.65.253.00	Toolbar: 5950mm long (for 12 m - right)			
4	16.65.115.00	Coulter blade bar support			
5	16.65.111.00	Flange - 80x80 strengthened tube anchorage			
6	16.65.110.00	Flange - 140x80 strengthened tube anchorage			
7	18.03.05.078	Hex head bolt - BSW- G5 -5/8" x 2 1/4" d.chrome coated			
8	18.01.10.008	Flat washer, 5/8"double chrome coated			
9	18.37.01.012	Lock nut 5/8"			
10	16.65.113.00	Front units bar support			
11	16.65.109.00	Rear units bar support			

Picture N° 19

TOOLBAR (WITHOUT FRONT COULTER VERSION)



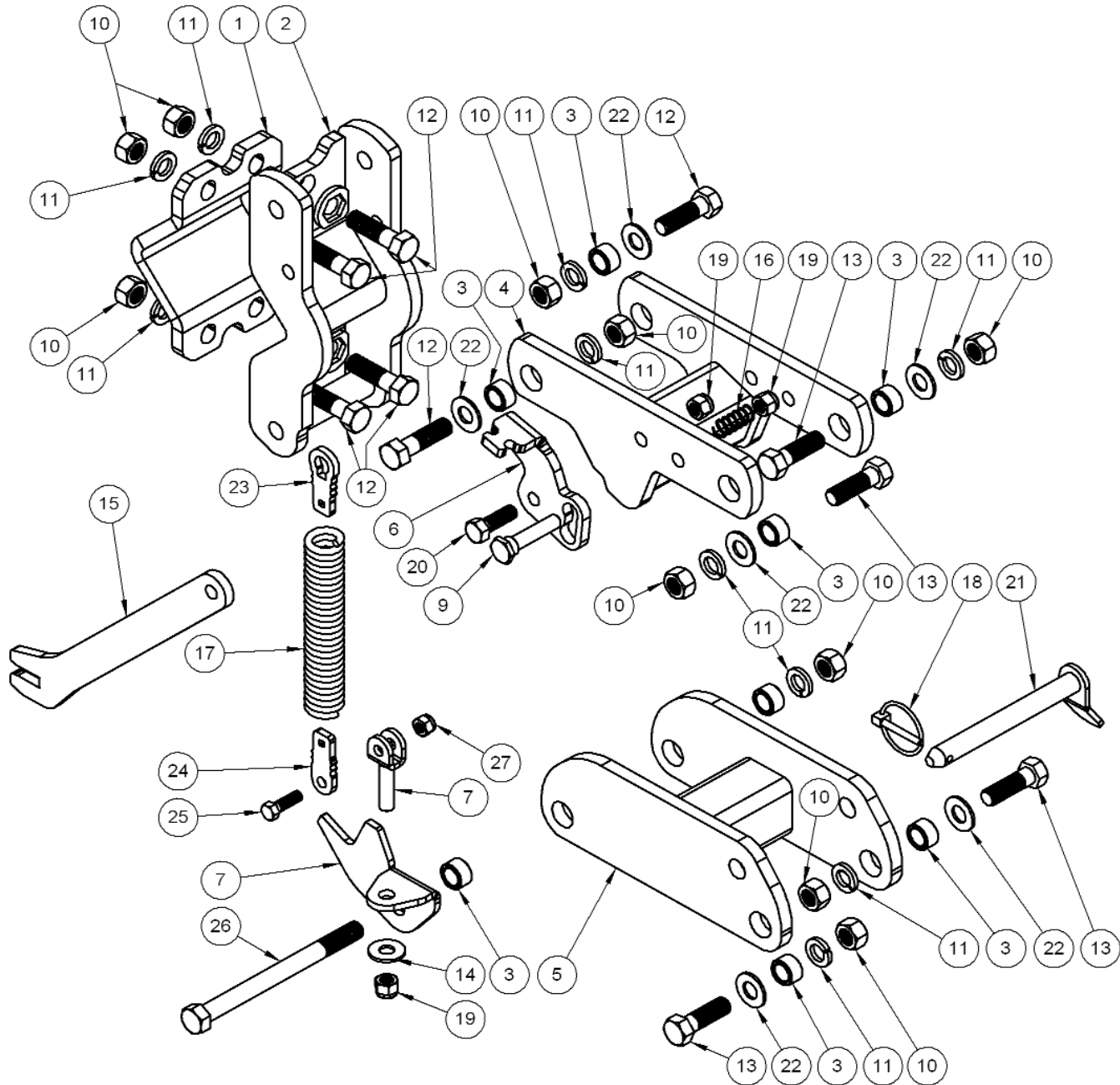






Picture N° 21

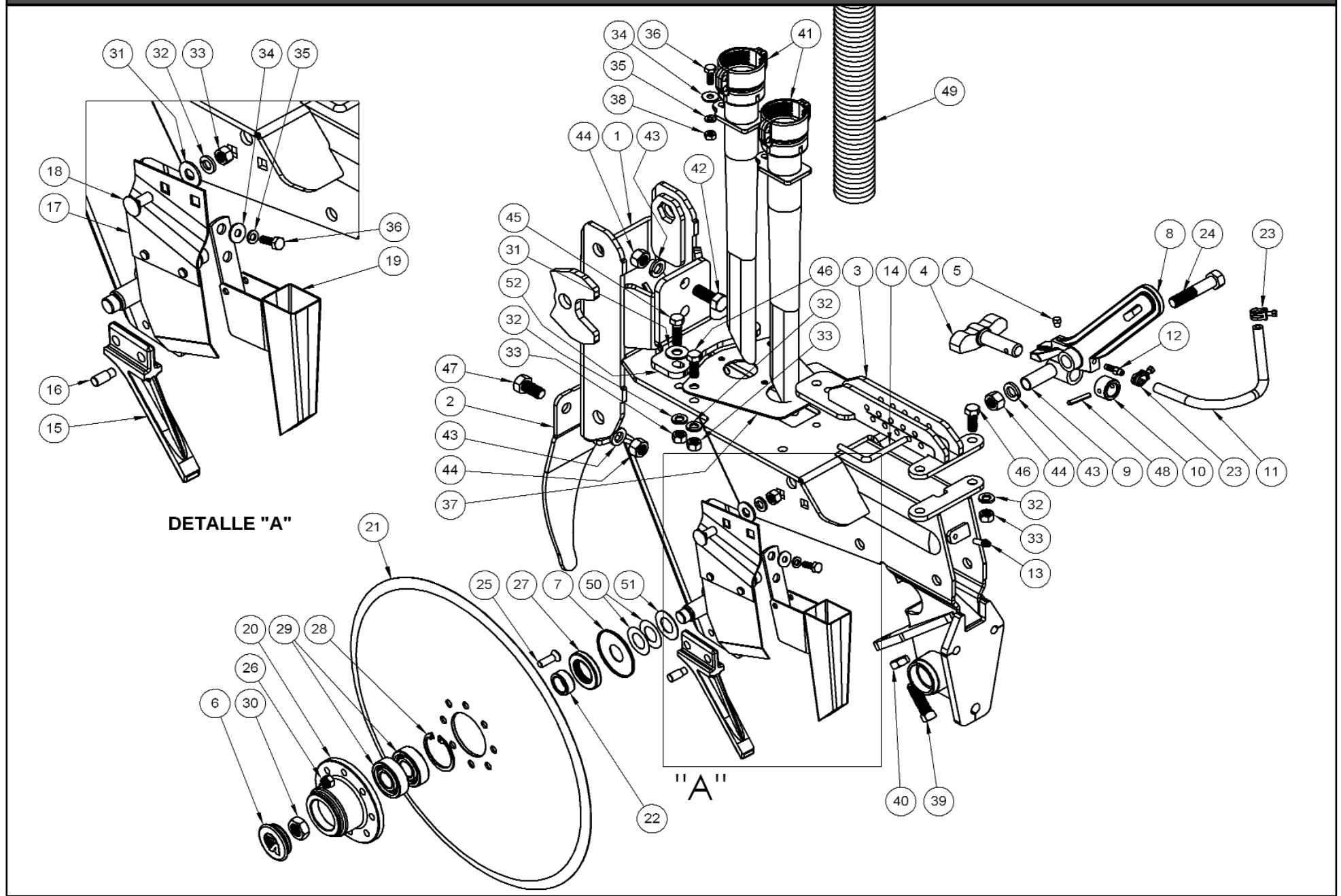
OPENERS SET PARALLEL ARM (FOR CLAYEY SOIL)





**OPENERS SET PARALLEL ARM (FOR CLAYEY SOIL)**

Item	Code	Description	Item	Code	Description
1	16.65.092.00	Upper plate - unit anchor			
2	16.65.408.00	Openers set support			
3	16.14.079.01	Bushing - parallel arm			
4	16.65.409.00	Upper parallel arm			
5	16.65.410.00	Lower parallel arm			
6	16.65.343.01	Left plate - download spring adjustment (shown in picture)			
6	16.65.344.01	Right plate - download spring adjustment			
7	16.65.445.01	Left load spring lower anchor			
7	16.65.446.01	Right load spring lower anchor			
8	16.65.444.01	Download spring lower threaded holder			
9	16.65.097.01	Pin - spring upper holder lock actioning			
10	18.16.10.008	Hex nut - BSW 5/8" double chrome coated			
11	18.02.01.008	Lock washer -5/8" double chrome coated			
12	18.03.05.078	Hex head bolt BSW G5 -5/8" x 2 1/4" d.ch.coated			
13	18.03.05.076	Hex head bolt BSW G5 -5/8" x 1 3/4" d. ch. coated			
14	18.01.10.006	Flat washer -1/2" double chrome coated			
15	16.64.278.01	Handle - arm operation			
16	18.38.01.209	Spring adjustment			
17	18.38.01.296	Spring - load displacement			
18	18.41.01.003	Pin w/ 6mm safety ring			
19	18.37.01.013	Lock nut BSW 1/2"			
20	18.03.10.053	Hex head bolt BSW 1/2" x 1 1/2" d. chrome coated			
21	16.65.308.01	Row unit lock w/ handle			
22	18.01.10.008	Flat washer -5/8" double chrome coated			
23	16.65.447.00	Down load spring – upper thread			
24	16.65.448.00	Down load spring – lower thread			
25	18.03.10.032	Hex head bolt BSW 3/8" x 1 1/2" d. ch.coated			
26	18.03.05.185	Hex head bolt BSW G5- 5/8" x 7 1/2" d.ch.coated			
27	18.37.01.011	Lock nut BSW 3/8"			

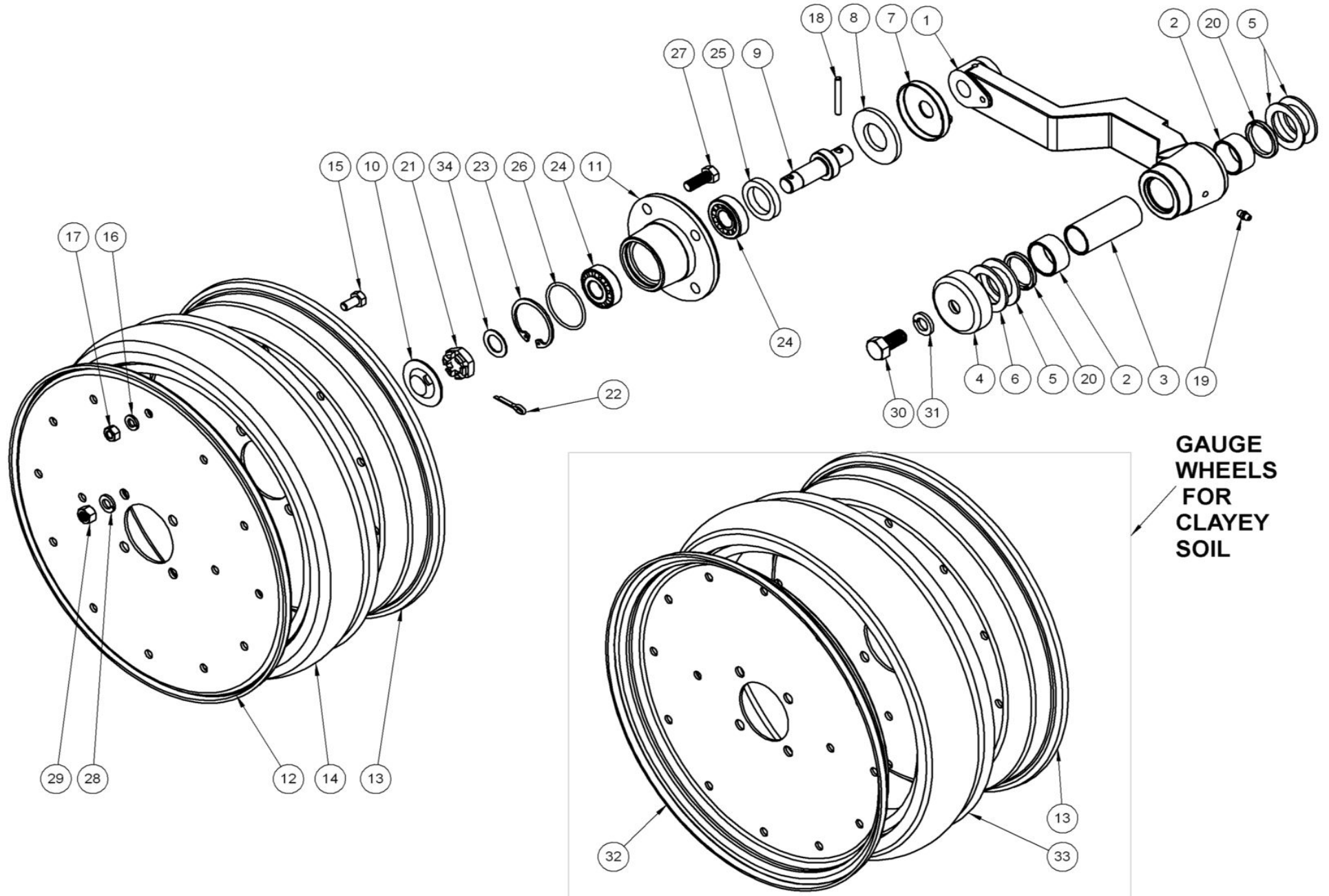


**OPENERS SET**

Item	Code	Description	Item	Code	Description
1	16.65.084.00	Opener unit	28	18.32.01.011	Seeger ring 47.l
2	16.65.087.00	Shield 16"	29	18.33.01.032	Bearing 6204 2RS
3	16.65.088.00	Arm adjustment selector	30	18.71.01.008	Flat hex nut SAE 5/8"
4	16.30.129.01	Handle- wheel adjustment	30	18.71.02.008	Flat hex nut- left thread SAE 5/8"
5	16.30.196.10	Grease cap - depth control adjustment	31	18.01.10.004	Flat washer 3/8" double chrome coated
6	16.65.081.10	Hub cover - double disk	32	18.02.10.004	Lock washer 3/8" double chrome coated
7	16.65.080.01	Hub housing - double disk	33	18.16.10.004	Hex nut RW° 3/8" double chrome coated
8	16.30.127.01	Depth control adjustment	34	18.01.10.002	Flat washer 1/4" double chrome coated
9	16.30.138.00	Spacer - depth control adjustment	35	18.02.10.002	Lock washer 1/4" double chrome coated
10	16.30.149.00	Bushing - wheel adjustment handle stop-end	36	18.03.10.005	Hex head bolt BSW 1/4" x 5/8" d. chrome coated
11	16.64.299.00	Grease pipe	37	16.65.099.01	Outlet tube holder
12	16.30.187.10	Grease nipple	38	18.16.10.002	Hex nut RW° 1/4" double chrome coated
13	16.30.188.10	Straight grease nipple 1/4" NF	39	18.06.10.053	Square head bolt BSW 1/2" x 1 1/2" d.chrome coated
14	16.30.120.01	Pin - depth control adjustment lock	40	18.19.10.006	Flat hex nut RW° 1/2" double chrome coated
15	16.30.130.00	Inner disk scraper	41	15.65.834.00	Seeds/ fertilizer outlet tube
16	16.30.133.00	Pin - inner scraper holder	42	18.03.10.052	Hex head bolt BSW 1/2" x 1 1/4" d. chrome coated
17	16.65.085.10	Left exterior scraper w/reveted support	43	18.02.10.006	Lock washer 1/2" double chrome coated
17	16.65.086.10	Right exterior scraper w/reveted support	44	18.16.10.006	Hex nut RW° 1/2" double chrome coated
18	16.30.644.10	Bolt - round head, square body BSW 3/8"x 7/8"	45	18.03.10.032	Hex head bolt BSW 3/8" x 1 1/4" d. chrome coated
			46	18.03.10.031	Hex head bolt BSW 3/8" x 1" d. chrome coated
19	16.54.301.00	Guiding tube -seeds and fertilizer outlet	47	18.03.10.051	Hex head bolt BSW 1/2" x 1" d. chrome coated
20	16.65.077.10	Double disk hub	48	18.26.01.033	Spring pin 5 x 25
21	16.65.078.10	Semi-flat disk Ø 16" 4mm thick	49	16.65.138.00	Seeds outlet tube
21	16.65.276.10	Flat disk Ø15" 4mm thick for uneven blades	49	16.65.139.00	Fertilizer outlet tube
21	16.65.277.10	Flat disk Ø16" 4mm thick for uneven blades	50	16.65.327.10	Shim washer 0.2mm for Ø20 axle
22	16.65.079.01	Bushing - grease retaining	51	16.65.328.10	Shim washer 0.8mm for Ø20 axle
23	18.54.01.001	Clamp 10-12mm	52	16.65.100.00	Bracket - opener unit strengthener
24	18.03.10.057	Hex head bolt BSW 1/2" x 2 1/2" d. chrome coated			
25	18.20.05.018	Allen screw BSW G5- 5/16" x 1"			
26	18.37.01.014	Lock nut BSW 5/16"			
27	18.34.01.182	Grease seal DBH A308 9971			

Picture N° 23

GAUGE WHEELS

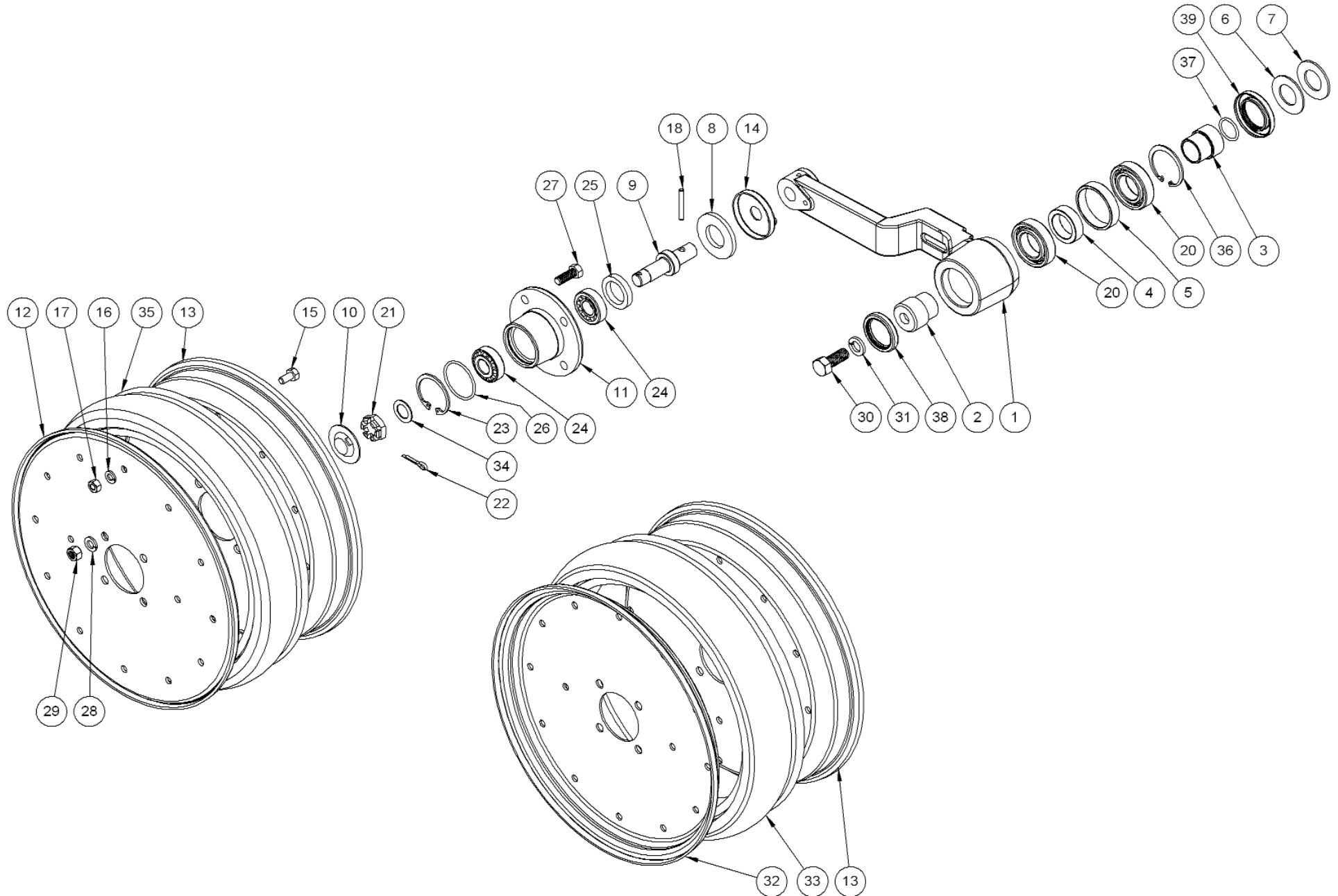


## GAUGE WHEELS

Item	Code	Description	Item	Code	Description
1	16.65.082.01	Right arm - gauge wheel			
1	16.65.083.01	Left arm - gauge wheel			
2	16.56.222.10	Short bushing - gauge wheel arm			
3	16.56.223.10	Long bushing - gauge wheel arm			
4	16.56.224.01	Gauge wheel arm cover			
5	16.56.225.01	Shim washer - gauge wheel arm supplement			
6	16.56.226.01	Thin shim washer - gauge wheel arm supplement			
7	16.30.263.01	Gauge wheel hub cover			
8	16.30.264.10	Hub cover washer			
9	16.30.123.01	Gauge wheel axle			
10	16.30.269.00	Hub cover			
11	16.30.261.00	Wheel hub			
12	16.64.165.10	Gauge wheel half rim, 2 7/8"			
13	16.30.645.10	Gauge wheel half rim			
14	18.36.03.004	Semi-pneumatic tire 2 7/8" x 15"			
15	18.03.10.016	Hex head bolt - BSW <sup>o</sup> 5/16" x 5/8" d. chrome coated			
16	18.02.10.003	Lock washer -5/16" double chrome coated			
17	18.16.10.003	Hex nut -BSW 5/16" double chrome coated			
18	18.26.01.012	Spring pin 5 x 40			
19	18.29.01.001	Straight grease nipple 1/4" NF			
20	18.34.01.171	Grease seal DBH 6915			
21	18.21.01.008	Flat castle nut SAE 5/8"			
22	18.25.01.003	Split cotter pin -3 x 30			
23	18.32.01.011	Seeger ring 47.l			
24	18.33.01.010	Bearing 30203			
25	18.34.01.024	Grease seal SAV 5031			
26	18.34.01.089	Parker O'ring 2-131			
27	18.03.10.031	Hex head bolt-BSW 3/8" x1" d. chrome coated			
28	18.02.10.004	Lock washer -3/8" double chrome coated			
29	18.16.10.004	Hex nut BSW 3/8" double chrome coated			
30	18.03.10.051	Hex head bolt-BSW 1/2" x 1" d. chrome coated			
31	18.02.10.006	Lock washer -1/2" double chrome coated			
32	16.65.275.10	Gauge wheel half rim, 3 1/2"			
33	18.36.03.009	Semi-pneumatic tire 3 1/2" x 15"			
34	16.30.179.00	Shim washer			

Picture N° 23 "BIS"

GAUGE WHEELS WITH BEARINGS (NEW MODEL)

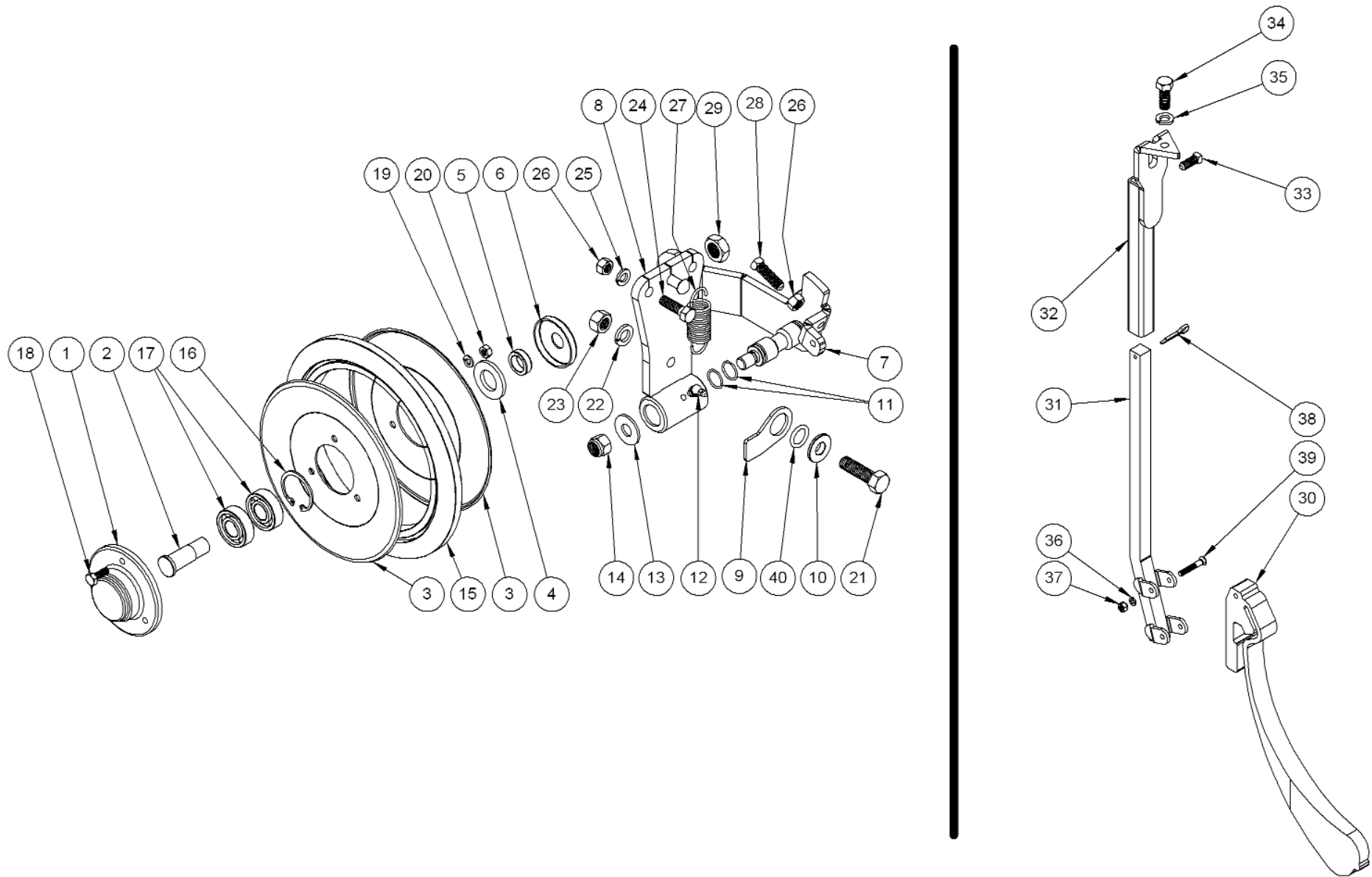


**GAUGE WHEELS WITH BEARINGS (NEW MODEL)**

Item	Code	Description	Item	Code	Description
1	16.65.357.01	Gauge wheel right arm	32	16.65.275.10	Outer half rim 3 1/2"
1	16.65.356.01	Gauge wheel left arm	33	18.36.03.009	Semi pneumatic tire - 3 1/2" x 15"
2	16.65.390.10	Outer bushing - grease seal seat	34	16.30.179.00	Shim washer
3	16.65.393.10	Inner bushing - grease seal seat	35	18.36.03.004	Semi pneumatic tire 2 7/8" x 15"
4	16.65.392.10	Small bearing spacer	36	18.32.01.043	Seeger ring 55.l
5	16.65.391.10	Large bearing spacer	37	18.34.01.046	O'ring 2-119
6	16.65.394.01	2mm shim washer - gauge wheel arm	38	18.34.01.179	Grease seal SAV 5427
7	16.65.395.01	2.5mm shim washer - gauge wheel arm	39	18.34.01.180	Grease seal DBH 8660
8	16.30.264.10	Washer - wheel hub housing			
9	16.30.123.01	Gauge wheel axle			
10	16.30.269.00	Hub cover			
11	16.30.261.00	Gauge wheel hub			
12	16.64.165.10	Gauge wheel 2 7/8" flat half rim			
13	16.30.645.10	Half rim			
14	16.30.263.01	Hub housing			
15	18.03.10.016	Hex head bolt - BSW 5/16" x 5/8" double chrome coated			
16	18.02.10.003	Lock washer -5/16" double chrome coated			
17	18.16.10.003	Hex nut - BSW 5/16" double chrome coated			
18	18.26.01.012	Spring pin 5 x 40			
19	18.29.01.001	Straight grease nipple 1/4" NF			
20	18.33.01.074	Bearing 6006 2RS			
21	18.21.01.008	Flat castle nut SAE 5/8"			
22	18.25.01.003	Split cotter pin 3 x 25			
23	18.32.01.011	Seeger ring 47.l			
24	18.33.01.010	Bearing 30203			
25	18.34.01.024	Grease seal SAV 5031			
26	18.34.01.089	O'ring parker 2-131			
27	18.03.10.031	Hex head bolt-BSW 3/8"x 1" double chrome coated			
28	18.02.10.004	Lock washer - 3/8" double chrome coated			
29	18.16.10.004	Hex nut -BSW 3/8" double chrome coated			
30	18.03.10.052	Hex head bolt - BSW 1/2" x 1 1/4" double chrome coated			
31	18.02.10.006	Lock washer - 1/2" double chrome coated			

Picture N° 24

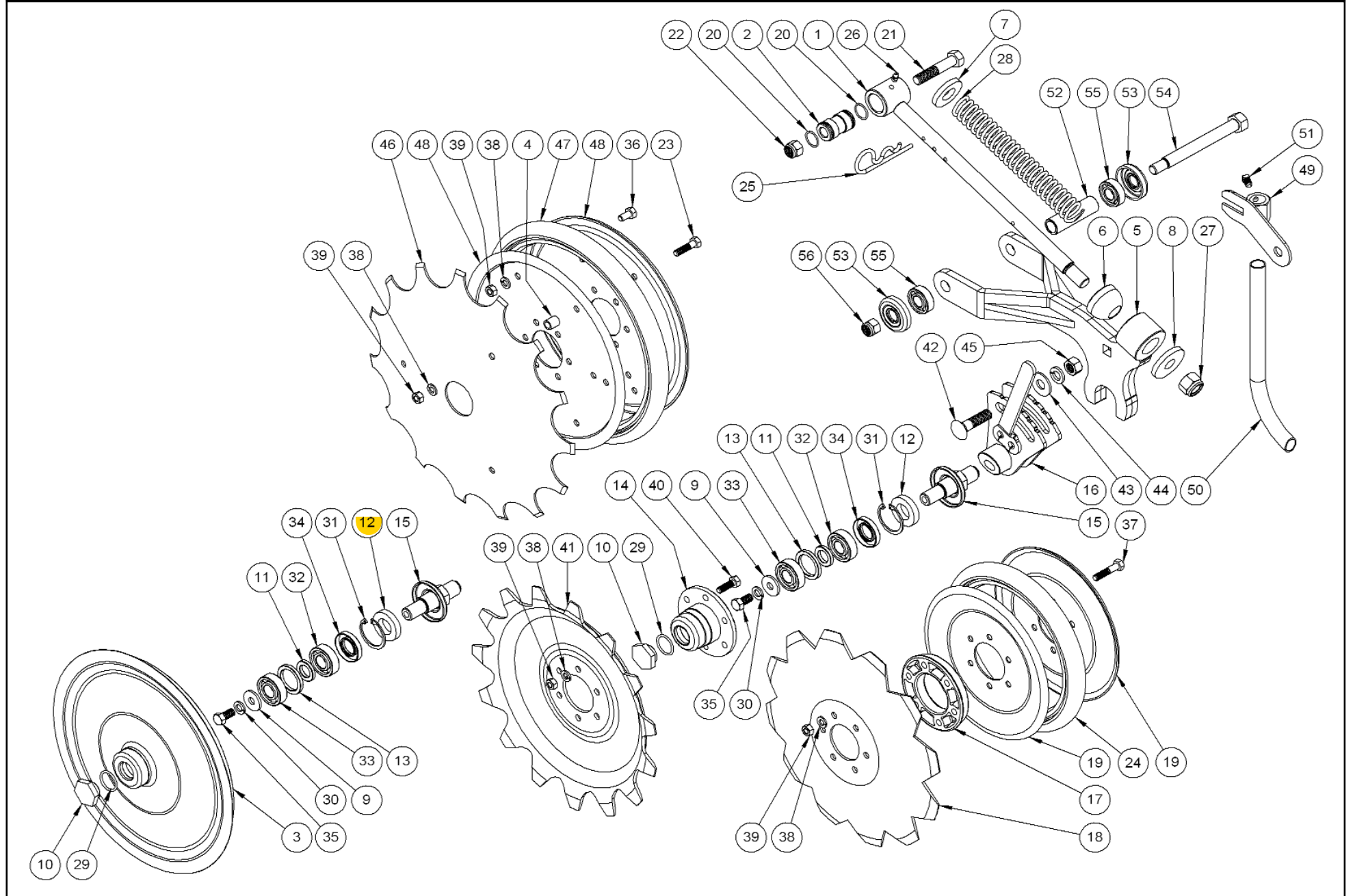
SEED PRESS WHEEL AND PRESSING TAIL





**SEED PRESS WHEEL AND PRESSING TAIL**

Item	Code	Description	Item	Code	Description
1	16.65.062.00	Hub - seed press wheel	31	16.65.075.00	Sliding bar - tail type seed firmer anchor
2	16.65.063.00	Axle -press wheel hub	32	16.65.337.00	Seed firmer fastening bar
3	16.65.067.10	Half rim for 1" x 9 1/2" tire	33	18.06.10.018	Square head bolt -BSW 5/16" x 1" double-chrome
4	16.65.066.10	Thin felt washer	34	18.03.10.031	Hex head bolt BSW 3/8" x 1" double-chrome coated
5	16.65.064.01	Bushing - bearing stop-end	35	18.02.10.004	Lock washer 3/8" double-chrome coated
6	16.65.065.01	Seed firmer hub shield	36	18.02.10.001	Lock washer 3/16" double-chrome coated
7	16.65.068.00	Seed firmer holding arm	37	18.16.10.001	Hex nut - BSW 3/16" double-chrome coated
8	16.65.069.00	Arm holder	38	18.25.01.003	Split cotter pin 3 x 25
9	16.65.415.01	Strap - seed firmer lock	39	18.15.01.175	Tank head, galvanized screw 3/16" x 1 1/2"
10	16.65.414.01	Bushing - lock guide	40	18.34.02.013	O`ring 2-209
11	18.34.02.009	O`ring 2-018			
12	18.30.01.001	90° grease nipple 1/4" NF			
13	18.01.10.006	Flat washer 1/2" double-chrome coated			
14	18.37.01.013	Lock nut 1/2"			
15	18.36.03.008	Semi-pneumatic 1" x 9 1/2" rueda apr.			
16	18.32.01.010	Seeger ring 40.l			
17	18.33.01.033	Bearing 6203 2RS			
18	18.03.10.006	Hex head bolt BSW 1/4" x 3/4" double-chrome coated			
19	18.02.10.002	Lock washer -1/4" double-chrome coated			
20	18.16.10.002	Hex nut -BSW 1/4" double-chrome coated			
21	18.03.10.054	Hex head bolt: TOTAL thread W 1/2" x1 3/4" bicro.			
22	18.02.10.006	Lock washer - 1/2" double-chrome coated			
23	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated			
24	18.03.10.032	Hex head bolt BSW 3/8" x 1 1/4" double-chrome coated			
25	18.02.10.004	Lock washer - 3/8" double-chrome coated			
26	18.16.10.004	Hex nut BSW 3/8" double-chrome coated			
27	18.38.01.120	Spring - chain tightener			
28	18.06.10.032	Square head bolt - BSW 3/8" x 1 1/4" double-chrome coated			
29	18.71.10.008	Hex flat nut - SAE 5/8" double-chrome coated			
30	16.30.656.10	Tail type seed firmer			

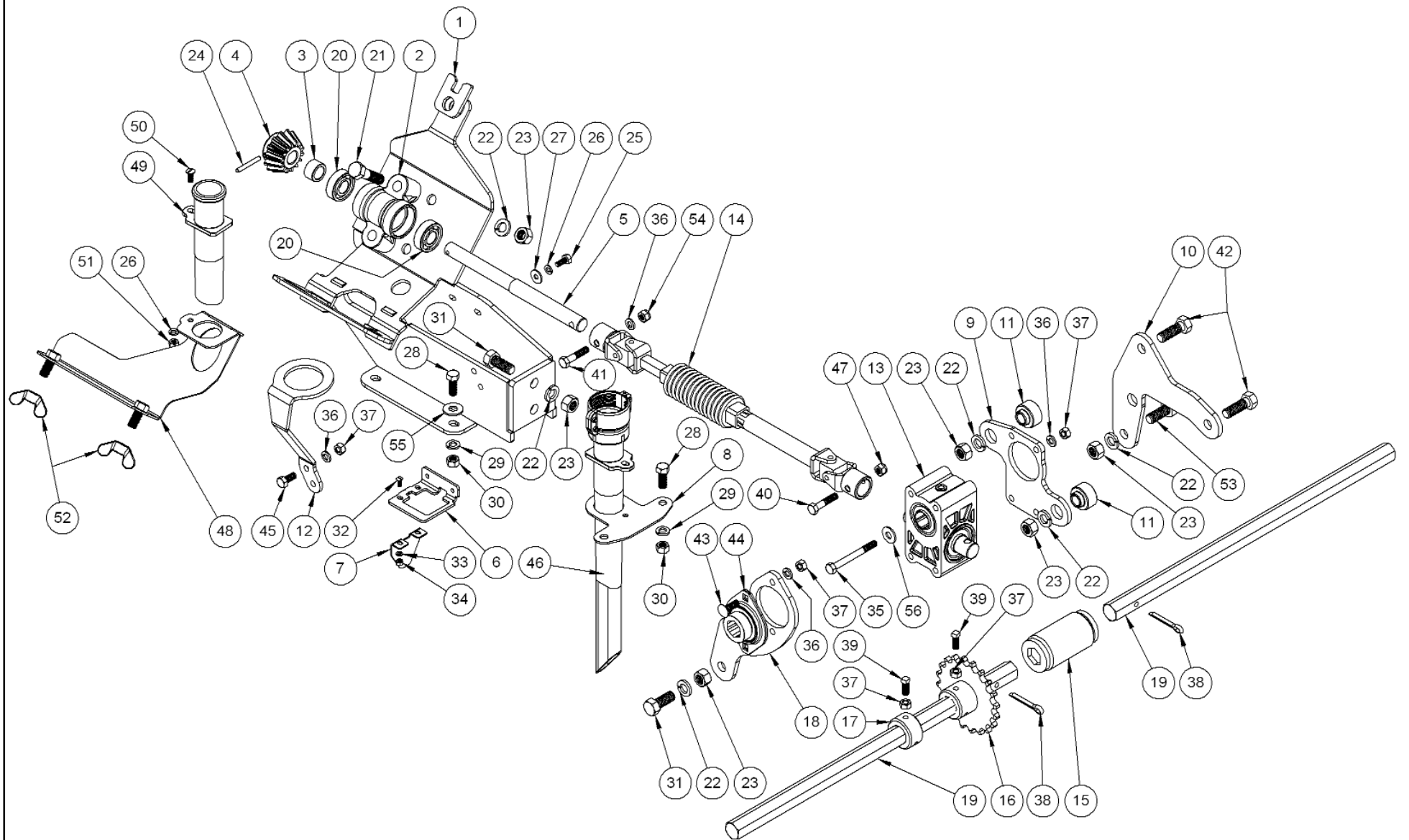


**CLOSING WHEELS**

Item	Code	Description	Item	Code	Description
1	16.65.055.01	Rod - closing wheel spring guide	30	18.02.01.004	Lock washer 3/8"
2	16.65.059.00	Bushing - closing wheels spring pivot rod	31	18.32.01.010	Seeger ring 40.I
3	16.65.279.00	Iron-made left closing wheel	32	18.33.01.033	Bearing 6203 2RS
3	16.65.280.00	Iron-made right closing wheel	33	18.33.01.001	Bearing 6203
4	16.30.220.01	Rear disks spacer	34	18.34.01.082	Grease seal DBH 5268 LX
5	16.65.054.00	Closing wheel fork	35	18.56.01.030	Hex head bolt SAE left thread 3/8" x 3/4"
6	16.65.056.10	Spring seat	35	18.11.01.030	Hex head bolt SAE 3/8" x 3/4"
7	16.65.057.01	Washer - upper spring stop-end	36	18.03.10.016	Hex head bolt BSW 5/16" x 5/8" double-chrome coated
8	16.65.058.01	Washer - spring lower seat	37	18.03.10.021	Hex head bolt BSW 5/16" x 1 3/4" d. chrome coated
9	16.10.295.00	Washer - bearing holder	38	18.02.10.003	Lock washer 5/16" double-chrome coated
10	16.10.300.00	Left hub shield	39	18.16.10.003	Hex nut BSW 5/16" double-chrome coated
10	16.10.301.00	Right hub shield	40	18.03.10.190	Hex head bolt BSW 5/16" x 7/8" double-chrome coated
11	16.30.205.00	Spacer - hub bearing	41	16.65.076.10	Closing notched disk
12	16.30.270.10	Washer - wheel filter	42	18.04.10.055	Round head square neck bolt-BSW 1/2" x 2" d. chrome coated
13	16.30.303.00	Bearing large spacer			
14	16.33.323.00	Left hub - closing wheel	43	18.01.10.006	Flat washer 1/2" double-chrome coated
14	16.33.320.00	Right hub - closing wheel	44	18.02.10.006	Lock washer 1/2" double-chrome coated
15	16.65.051.00	Left shaft w/ closing wheel shield	45	18.16.10.006	Hex nut BSW 1/2" double-chrome coated
15	16.65.052.00	Right shaft w/ closing wheel shield	46	16.30.219.10	14" concave disk - rear wheels
16	16.65.053.00	Adjustment plate - closing wheels shaft holder	47	18.36.01.041	Tire - 1" x 12" semi-pneumatic
17	16.65.072.10	Plastic spacer - notched disk	47	18.36.01.079	Semi- neumatic tire 1"x12" w/ trapezoid band
18	16.65.073.10	Notched disk 12"	48	16.30.201.10	Closing wheel half rim
19	16.65.050.10	Closing wheel half rim 1" x 10"	49	16.65.284.01	Guide and support - lucerne seed drop tube
20	18.34.02.010	O´ring 2-020	50	16.65.283.01	Seed drop tube - lucerne seed box
21	18.03.10.058	Hex head bolt BSW 1/2" x 2 3/4" d.chrome coated	51	18.06.10.015	Square head bolt -BSW 5/16" x 1/2" double-chrome
22	18.37.01.013	Lock nut BSW 1/2"	52	16.65.207.00	Spacer bushing - closing wheels bearing
23	18.03.10.019	Hex head bolt BSW 5/16" x 1 1/4" d.chrome coated	53	16.65.060.01	Closing wheel housing and bearing seat
23	18.03.10.020	Hex head bolt BSW 5/16" x 1 1/2" d.chrome coated (en trapez.)	54	16.65.061.01	Pin - closing wheel fork pivot
			55	18.33.01.065	Bearing 6202 2RS
24	18.36.03.007	Closing wheel semi-pneumatic tire 1" x 10"	56	18.37.01.013	Lock nut 1/2"
25	18.27.01.003	"R" clip pin 4,5 x 80			
26	18.29.01.001	Straight grease nipple 1/4" NF			
27	18.37.01.012	Lock nut 5/8"			
28	18.38.01.272	Spring			
29	18.34.01.046	O´ring 2-119			

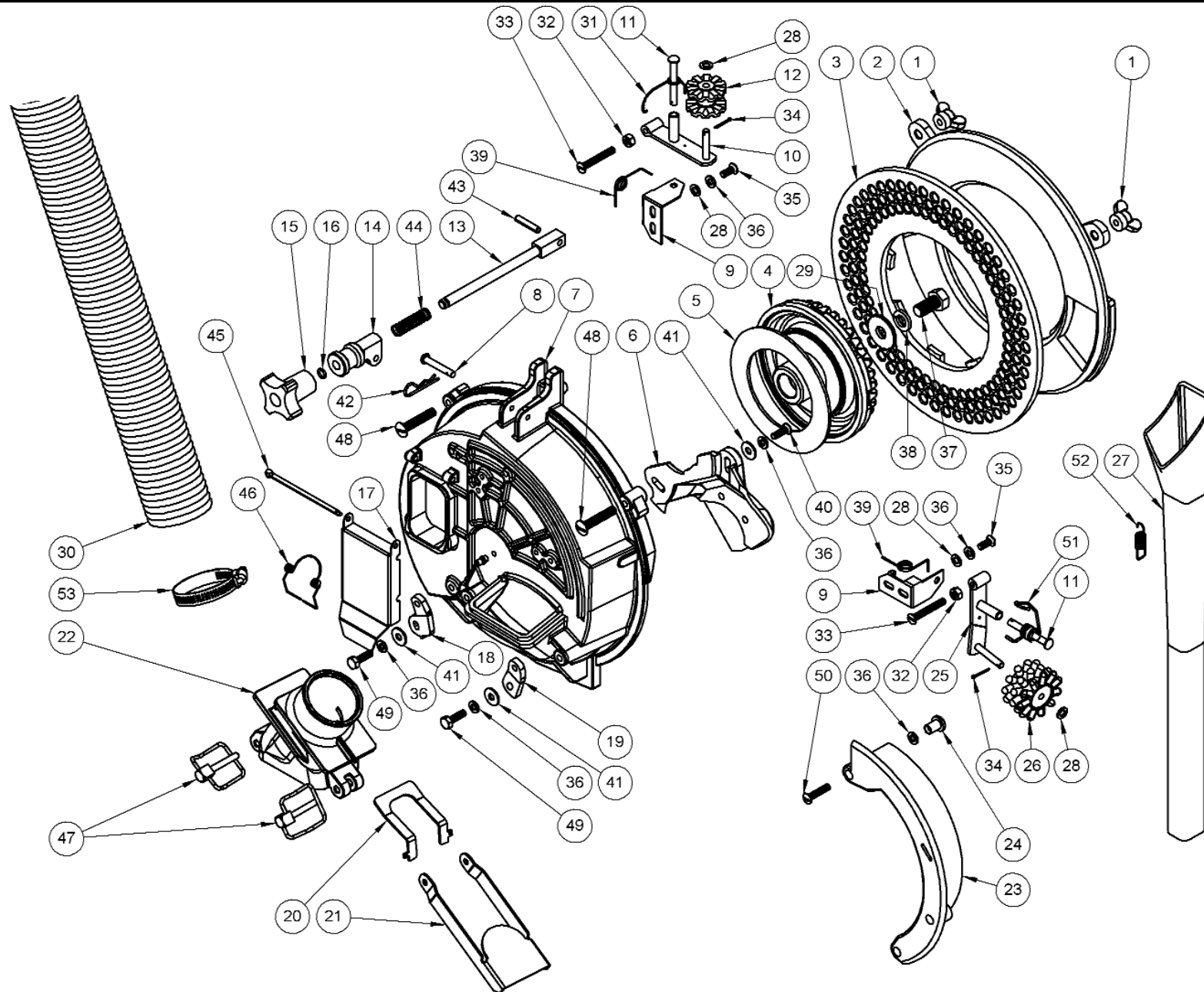
Picture N° 26

SEED METERING UNIT SUPPORTING BASE AND ACCESSORIES



**SEED METERING UNIT SUPPORTING BASE AND ACCESSORIES**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	16.65.102.00	Metering unit supporting frame	19	16.65.257.01	Simple drilling hex shaft 22 x 2740 (4 for 12 meters)
2	16.64.141.00	Housing guide - meter drive axle	20	18.33.01.033	Bearing 6203 2RS
3	16.64.143.01	Long bushing - pinion spacer Z:14	21	18.03.10.056	Hex head bolt BSW 1/2" x 2 1/4" double chrome coated
4	16.64.145.00	Conical pinion gear Z:14	22	18.02.10.006	Lock washer 1/2" double chrome coated
5	16.64.142.01	Conical pinion gear axle Z:14	23	18.16.10.006	Hex nut RW° 1/2" double chrome coated
6	16.64.146.01	Seed tube holder	24	18.26.01.012	Spring pin 5 x 40
7	16.64.147.01	Seat tube seat	25	18.03.10.005	Hex head bolt BSW 1/4" x 5/8" double chrome coated
8	16.65.103.01	Outlet tube holder - coarse crop fertilization	26	18.02.10.002	Lock washer 1/4" double chrome coated
9	16.65.104.01	90° gearbox holder	27	18.01.10.002	Flat washer 1/4" double chrome coated
10	16.65.105.01	90° gearbox anchor	28	18.03.10.031	Hex head bolt BSW 3/8" x 1" double chrome coated
11	16.65.106.01	Spacer bushing	29	18.02.10.004	Lock washer 3/8" double chrome coated
12	16.65.107.01	Supporting bracket - fertilizer outlet tube	30	18.16.10.004	Hex nut RW° 3/8" double chrome coated
13	15.64.938.10	Gearbox 1,4:1	31	18.03.10.052	Hex head bolt BSW 1/2" x 1 1/4" double chrome coated
14	15.64.937.10	Joint set - units transmission	32	18.15.01.001	Tank head, galvanized screw 3/16" x 1/2"
15	16.64.272.01	Bushing - units shaft guide linkage	33	18.02.10.001	Lock washer 3/16" double chrome coated
16	16.65.181.01	Gear sprocket Z:20: drive shaft, hex centerd	34	18.16.10.001	Hex nut RW° 3/16" double chrome coated
17	16.64.066.01	Bushing - drive shaft stop-end	35	18.03.10.027	Hex head bolt BSW 5/16" x 3 1/4" double chrome coated
18	16.65.041.01	Plate - bearing housing holder	36	18.02.10.003	Lock washer 5/16" double chrome coated
19	16.65.182.01	Double drilling hex shaft 22 x 3830 (1 for 5 meters)	37	18.16.10.003	Hex nut RW° 5/16" double chrome coated
19	16.65.183.01	Simple drilling hex shaft 22 x 685 (2 for 5 meters)	38	18.25.01.012	Split cotter pin 5 x 50
19	16.65.184.01	Simple drilling hex shaft 22 x 3090 (1 for 5 meters)	39	18.06.10.013	Square head bolt BSW 5/16" x 3/4" double chrome coated
19	16.65.186.01	Simple drilling hex shaft 22 x 990 (1 for 5 meters)	40	18.03.10.021	Hex head bolt BSW 5/16" x 1 3/4" double chrome coated
19	16.65.182.01	Double drilling hex shaft 22 x 3830 (1 for 6 meters)	41	18.03.10.020	Hex head bolt BSW 5/16" x 1 1/2" double chrome coated
19	16.65.186.01	Simple drilling hex shaft 22 x 990 (2 for 6 meters)	42	18.03.10.055	Hex head bolt BSW 5/16" x 1 3/4" double chrome coated
19	16.65.257.01	Simple drilling hex shaft 22 x 2740 (2 for 6meters)	43	18.04.10.017	Round head square neck bolt-BSW 5/16" x 3/4" d. ch. coated
19	16.65.376.01	S.drilling hex shaft 22 x 990(2 for 6m on 15 rows at 420mm)	44	18.33.01.108	Bearing 205 for hex - w/metal plate housing
19	16.65.257.01	Simple drilling hex shaft 22 x 2740 (2 for 7 meters)	45	18.03.10.017	Hex head bolt BSW 5/16" x 3/4" double chrome coated
19	16.65.305.01	Simple drilling hex shaft 22 x 1658 (2 for 7 meters)	46	15.65.834.00	Seeds/ fertilizer outlet tube
19	16.65.182.01	Double drilling hex shaft 22 x 3830 (1 for 7 meters)	47	18.37.01.014	Lock nut BSW 5/16"
19	16.65.373.01	D.drilling hex shaft 22 x 3066(1 f/7m on 18 rows at 382mm)	48	16.65.349.01	Discharge tube cover - small grains w/ upper guide
19	16.65.374.01	S.drilling hex shaft 22 x 1780(2 f/7m on 18 rows at 382mm)	49	16.65.350.00	Short discharge tube - small grains
19	16.65.182.01	Double drilling hex shaft 22 x 3830 (3 for 10 meters)	50	18.03.10.006	Hex head bolt BSW 1/4" x 3/4" double chrome coated
19	16.65.183.01	Simple drilling hex shaft 22 x 685 (5 for 10 meters)	51	18.16.10.002	Hex nut RW° 1/4" double chrome coated
19	16.65.184.01	Simple drilling hex shaft 22 x 3090 (1 for 10 meters)	52	18.45.01.005	Iron wing nut galvanized BSW 7/16"
19	16.65.186.01	Simple drilling hex shaft 22 x 990 (1 for 10 meters)	53	18.03.10.052	Hex head bolt BSW 1/2" x 1 1/4" double chrome coated
19	16.65.119.01	Simple drilling hex shaft 22 x 967 (1 for 12 meters)	54	18.37.01.050	Flat lock nut BSW 5/16"
19	16.65.125.01	Simple drilling hex shaft 22 x 1325 (1 for 12 meters)	55	18.01.10.004	Flat washer 3/8" double chrome coated
19	16.65.182.01	Double drilling hex shaft 22 x 3830 (2 for 12 meters)	56	18.01.10.003	Flat washer 5/16" double chrome coated
19	16.65.186.01	Simple drilling hex shaft 22 x 990 (2 for 12 meters)			

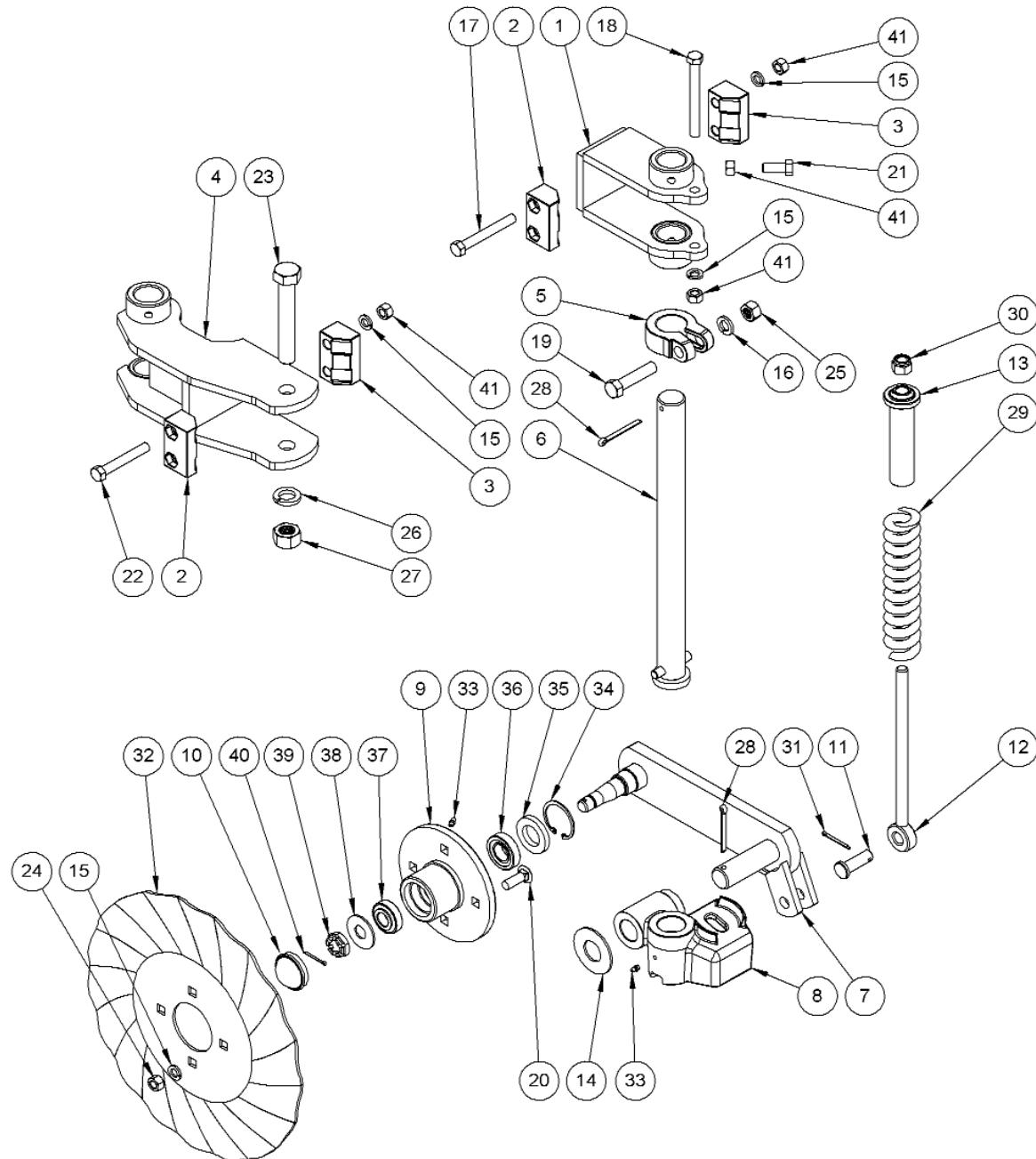


**PLANTING UNIT**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	16.17.160.10	Wing nut	12	16.17.358.10	Double seed singulator wheel for corn
2	16.17.540.00	Seed plate holding ring	13	16.64.158.01	Meter holder
2	16.56.084.01	Seed plate holding ring ( <i>special for sunflower</i> )	14	16.64.161.10	Lock - handle holder
3	16.30.663.10	Seed plate for delinted cotton	15	16.17.156.10	Handle holder
3	16.30.669.10	Seed plate for wheat 8,5 x 8,5	16	16.17.173.10	Ring
3	16.30.004.10	Seed plate for corn Ø12,5 x 5	17	16.64.156.01	Seeds inspection viewer cover
3	16.30.003.10	Seed plate for corn Ø 11,25 x 7	18	16.64.153.01	Left meter anchor
3	16.30.001.10	Seed plate for corn Ø 10 x 5,5	19	16.64.154.01	Right meter anchor
3	16.30.018.10	Seed plate for corn Ø 9,5	20	16.64.152.01	Sliding plate lock
3	16.30.002.10	Seed plate for corn Ø 11 x 5,5	21	16.64.151.01	Sliding plate - seed meter coupling closure
3	16.30.011.10	Seed plate for sorghum Ø 4,5 x 3,5	22	16.64.150.10	Seed meter coupling
3	16.30.012.10	Seed plate for sorghum Ø 5,25 x 4	23	16.17.471.10	Sunflower seeds baffle
3	16.30.010.10	Seed plate for soybean Ø 9 x 7	24	16.17.482.01	Nut - seeds baffle holder
3	16.30.009.10	Seed plate for soybean Ø 8,25 x 6	25	16.64.160.10	Ejector wheel arm
3	16.30.563.10	Seed plate for peanut 10.5 x 47	26	16.17.356.10	Ejector wheel for soybean
3	16.30.673.10	Seed plate for peanut 19 x 10 x 10	26	16.17.588.10	Ejector wheel for safflower
3	16.30.672.10	Seed plate for peanut Ø18 x 10	26	16.17.357.10	Ejector wheel for corn
3	16.30.013.10	Seed plate for beans Ø 9,25	26	16.17.359.10	Ejector wheel for sorghum
3	16.30.014.10	Seed plate for beans 18,5 x 9 x 7	26	16.17.492.10	Ejector wheel for peanut
3	16.30.019.10	Seed plate for beans 14 x 9 x 5,8	26	16.17.461.10	Ejector wheel for beans
3	16.30.017.10	Seed plate for safflower 9,5 x 5 x 3	26	16.17.355.10	Ejector wheel for sunflower
3	16.30.016.10	Seed plate for sunflower 17,3 x 6,3 x 3,5	27	16.64.302.00	Seed tube
3	16.30.015.10	Seed plate for sunflower 10,5 x 5 x 3	28	16.17.354.01	Flat washer Øint.7 x Øext.12.5
3	16.30.005.10	Seed plate for sunflower 12 x 7,4 x 5	29	16.17.172.01	Washer - bolt lock
3	16.30.006.10	Seed plate for sunflower 13 x 5x 3,5	30	16.65.137.00	Discharge tube
3	16.30.007.10	Seed plate for sunflower 13,5 x 6 x 4	31	18.38.01.095	Spring - for singulator wheel arm
3	16.30.008.10	Seed plate for sunflower 11,5 x 5,5 x 3,5	32	18.16.10.002	Hex nut BSW 1/4" double chrome coated
3	16.64.561.10	Seed plate for chickpeas	33	18.60.01.012	Countersunk head screw 1/4" x 2"
4	16.17.511.00	Conical toothed crown gear Z:35	34	18.25.01.001	Split cotter pin 2 x 15
5	16.17.271.10	Crown ring shield	35	18.15.01.005	Tank head, galvanized screw 1/4" x 5/8"
6	16.64.646.10	Seeds flow adjustment	36	18.02.10.002	Lock washer 1/4" double chrome coated
7	16.64.157.10	Seed meter	37	18.03.10.051	Hex head bolt 1/2" x 1" double chrome coated
8	16.64.292.01	Pin - meter holder lock	38	18.02.10.006	Lock washer 1/2" double chrome coated
9	16.17.163.01	Ejector wheel axle holder	39	18.38.01.062	Spring - ejector axle holder
10	16.64.238.10	Singulator wheel holding arm	40	18.15.01.006	Tank head, galvanized screw 1/4" x 3/4"
11	16.17.164.10	Ejector set axle	41	18.01.10.002	Flat washer - 1/4" double chrome coated

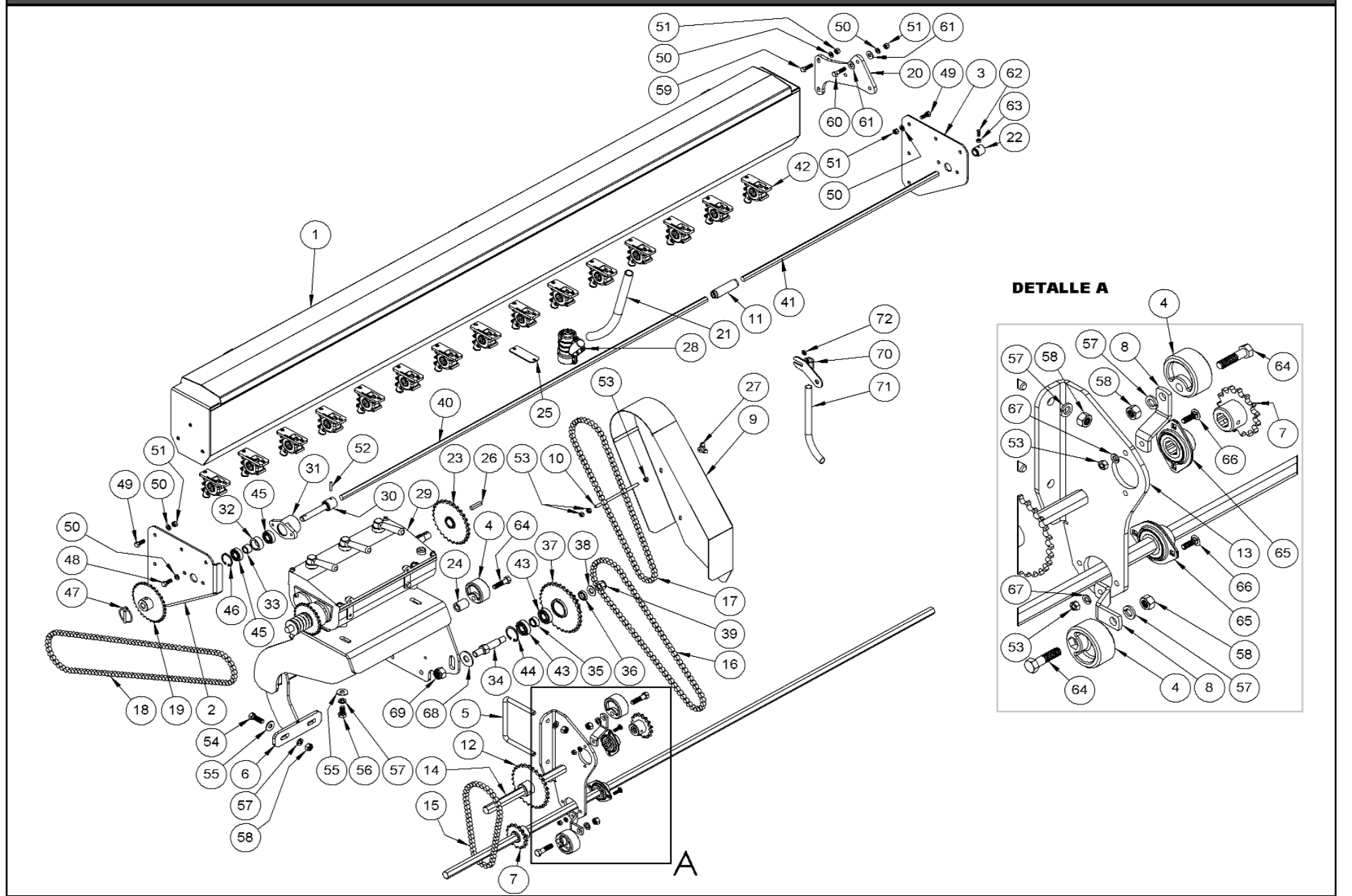






**NO-TILL COULTER BLADE**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	16.52.112.00	Bracket -no-till coulter rod support	31	18.25.01.007	Split cotter pin 4 x 40
2	16.52.114.00	Flange - hex rod fastener	32	18.35.01.092	17" No-till coulter - 4mm thick
3	16.52.115.00	Flange - rod fastener	33	18.29.01.001	Straight grease nipple 1/4" NF
4	16.65.221.00	Long bracket -no-till coulter rod support	34	18.32.01.043	Seeger ring 55.l
5	16.52.116.00	Flange - rod upper end	35	18.34.01.109	Grease seal DBH 5171
6	16.65.238.01	Rod - no-till coulter support	36	18.33.01.012	Bearing 30205
7	16.65.237.00	Left coulter arm	37	18.33.01.011	Bearing 30204
7	16.65.236.00	Right coulter arm	38	18.01.01.009	Flat washer 3/4"
8	16.52.119.00	Rod and arm left support	39	18.21.01.009	Flat castle nut SAE 3/4"
8	16.52.122.00	Rod and arm right supoport	40	18.25.01.003	Split cotter pin 3 x 30
9	16.33.808.00	Coulter hub	41	18.16.30.006	Flat hex nut BSW 1/2" double chrome coated
10	16.26.074.00	Hub shield			
11	16.52.118.00	Pin - spring guide lock			
12	16.52.117.00	Eye-rod - spring holder and guide			
13	16.30.636.00	Coulter spring seat			
14	16.65.128.00	Shim washer			
15	18.02.10.006	Lock washer 1/2" double-chrome coated			
16	18.02.10.008	Lock washer 5/8" double-chrome coated			
17	18.03.10.061	Hex head bolt BSW 1/2" x 4" d. chrome coated			
18	18.03.10.063	Hex head bolt BSW 1/2" x 5" d. chrome coated			
19	18.03.10.080	Hex head bolt BSW 5/8" x 2 3/4" d. chrome coated			
20	18.04.10.052	Round head square neck bolt BSW 1/2"x1 1/4" d.ch.c.			
21	18.06.10.052	Square head bolt BSW 1/2"x1 1/4" d. chrome coated			
21	18.06.10.051	Square h.bolt BSW 1/2"x1" d. ch.coated (coulter side)			
22	18.03.10.060	Hex head bolt BSW 1/2" x 3 1/2" d. chrome coated			
23	18.03.05.193	Hex head bolt BSW-G5- 7/8" x 5 1/2" d.chrome coated			
24	18.16.10.006	Hex nut BSW 1/2" double chrome coated			
25	18.16.10.008	Hex nut BSW 5/8" double chrome coated			
26	18.02.10.010	Lock washer 7/8" double-chrome coated			
27	18.16.10.010	Hex nut BSW 7/8" double chrome coated			
28	18.25.01.020	Split cotter pin 6 x 60			
29	18.38.01.189	Spring - no-till coulter			
30	18.37.01.012	Lock nut 5/8"			

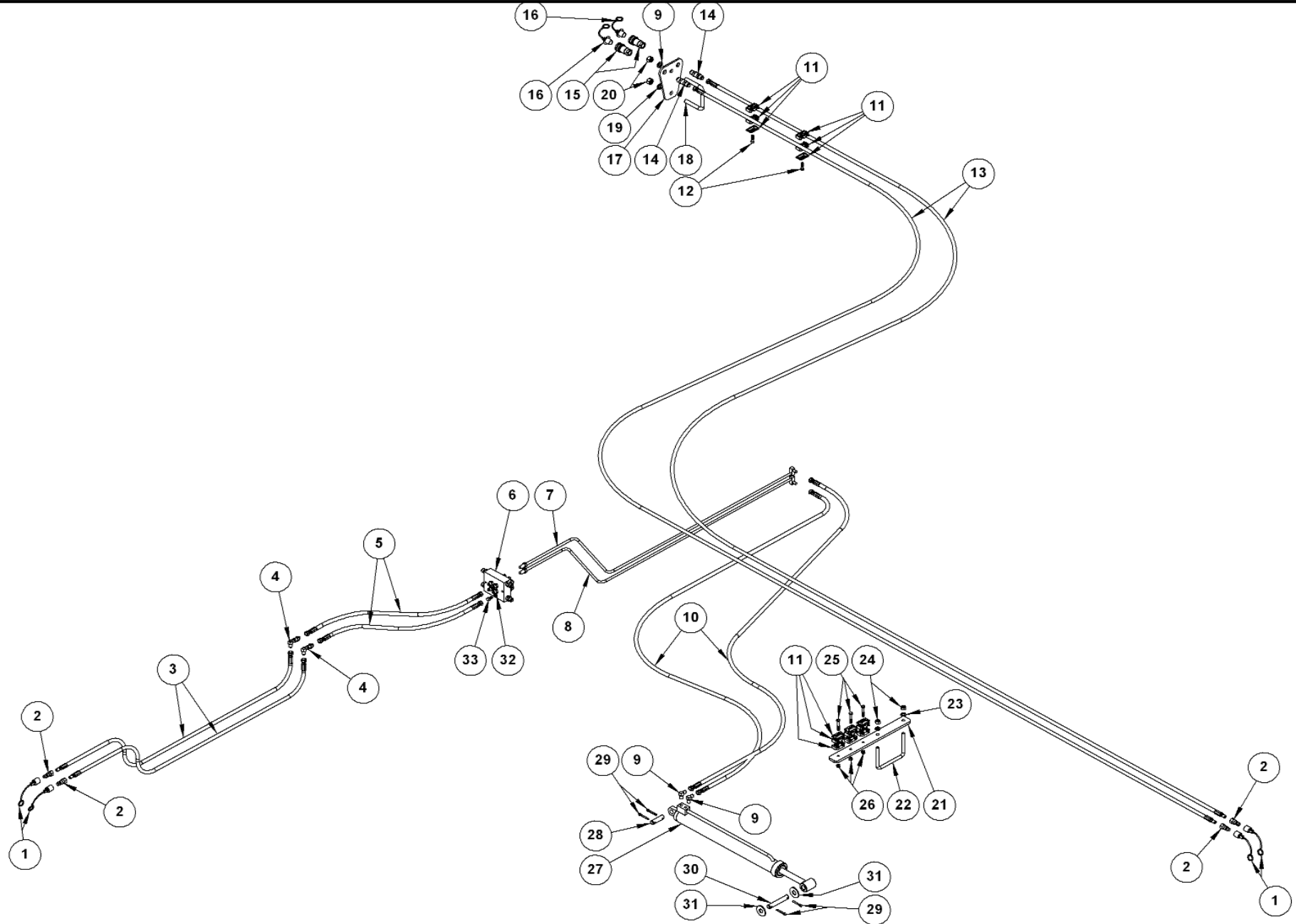


## GRASS SEED BOX

Item Code	Description	Item Code	Description		
1	15.65.839.10	Grass seed box - mainframe 5 and 10 meters	38	18.01.10.008	Flat washer -5/8" double chrome coated
1	15.65.896.10	Grass seed box - mainframe 6 and 12 meters	39	18.37.01.012	Lock nut 5/8"
1	15.65.921.10	Grass seed box - mainframe 7 meters	40	16.65.359.10	Seed box left feeder shaft 2367mm (5m)
2	16.65.201.00	Seed box folded supporting side plate	40	16.65.361.10	Seed box left feeder shaft 2886mm (6m)
3	16.65.202.00	Seed box plain supporting side plate	40	16.65.363.10	Seed box left feeder shaft 3415mm (7m)
4	16.64.062.10	Roller chain tensioning lobe	41	16.65.360.10	Seed box right feeder shaft 2390mm (5m)
5	16.65.049.01	1/2" clamp for 140 tube	41	16.65.362.10	Seed box right feeder shaft 2909mm (6m)
6	16.65.117.00	Supporting base for 27-shift gearbox	41	16.65.364.10	Seed box right feeder shaft 3436mm (7m)
7	16.65.161.01	Gear sprocket Z:15: drive shaft, hex centerd	42	15.65.731.10	Fully assembled seed grass feeder
8	16.65.169.01	Tensioning arm	43	18.33.01.032	Bearing 6204 2RS
9	16.65.173.00	Grass seed box chain shield	44	18.32.01.011	Seeger ring 47.l
10	16.65.174.01	175 mm chain shield spacer shaft	45	18.33.01.033	Bearing 6203 2RS
11	16.65.203.01	14.5 mm hex shaft link for seed grass	46	18.32.01.010	Seeger ring 40.l
12	16.65.208.01	Gear sprocket Z:28: drive shaft, hex centerd	47	18.41.01.004	Pin w/ safetand ring 7,5
13	16.65.209.00	Sprocket housing support - seed box transmission	48	18.03.10.030	Hex head bolt 3/8" x 3/4" double chrome coated
14	16.65.210.01	Hex countershaft - seed box transmission	49	18.03.10.031	Hex head bolt 3/8" x 1" double chrome coated
15	16.65.211.00	Roller chain: drive shaft/ countershaft	50	18.02.10.004	Lock washer 3/8" double chrome coated
16	16.65.212.00	Roller chain: countershaft/ double gear sprocket	51	18.16.10.004	Hex nut BSW 3/8" double chrome coated
17	16.65.213.00	Roller chain - gearbox to double sprocket	52	18.26.01.030	Spring pin 5 x 32
18	16.65.214.00	Roller chain: 27 shift gearbox - feeders shaft.	53	18.16.10.003	Hex nut BSW 5/16" double chrome coated
19	16.65.481.01	Gear sprocket: Z:32 P.5/8" seed box feeder shaft	54	18.03.10.053	Hex head bolt 1/2" x 1 1/2" double chrome coated
20	16.65.281.00	Seed box center support	55	18.01.10.006	Flat washer - 1/2" double chrome coated
21	16.65.282.00	Hose: discharge tube outlet coupling	56	18.03.10.051	Hex head bolt 1/2" x 1" double chrome coated
22	16.65.332.01	Bushing - drive shaft stop-end	57	18.02.10.006	Lock washer 1/2" double chrome coated
23	16.65.334.01	Gear sprocket Z:28 P.5/8" - gearbox	58	18.16.10.006	Hex nut BSW 1/2" double chrome coated
24	16.65.335.01	Supplement bushing - chain tensioner rod	59	18.03.10.032	Hex head bolt 3/8" x 1 1/4" double chrome coated
25	16.52.305.01	Cover - Seed box outlet	60	18.03.10.033	Hex head bolt 3/8" x 1 1/2" double chrome coated
26	16.52.043.00	Lock pin	61	18.01.10.004	Flat washer - 3/8" double chrome coated
27	16.17.160.10	Wing nut	62	18.06.10.005	Square head bolt BSW 1/4" x 5/8" double chrome coated
28	15.65.904.10	Hose coupling - discharge tube outlet	63	18.16.10.002	Hex nut BSW 1/4" double chrome coated
29	15.65.653.10	27- shift left gearbox w/sprocket Z:25 P.5/8"	64	18.03.10.055	Hex head bolt 1/2" x 2" double chrome coated
30	16.52.181.01	Seed box shaft end	65	18.33.01.108	Bearing 205 for hex - w/metal plate housing
31	16.52.180.00	Seed box shaft housing	66	18.04.10.019	Round head square neck bolt-BSW 5/16" x 1 1/4" d.ch.c.
32	16.52.183.00	Bushing - seed box spacer	67	18.02.10.003	Lock washer 5/16" double chrome coated
33	16.52.182.00	Lower spacer bushing - seed box housing	68	18.01.10.009	Flat washer - 3/4" double chrome coated
34	16.64.076.01	Shaft -double tensioning gear sprocket axle	69	18.37.01.015	Lock nut 3/4"
35	16.64.077.01	Spacer 30 x 20 x 13.5	70	16.65.284.01	Sostén and guía tubo descarga alfalfero
36	16.64.078.01	Spacer 30 x 20 x 8.5	71	16.65.283.01	Tubo caída semillas alfalfero
37	16.65.206.01	Double gear sprocket Z:17-32 seed grass transmission	72	18.06.10.015	Prisionero cab.cuadr. 5/16" x 1/2" bicromat.

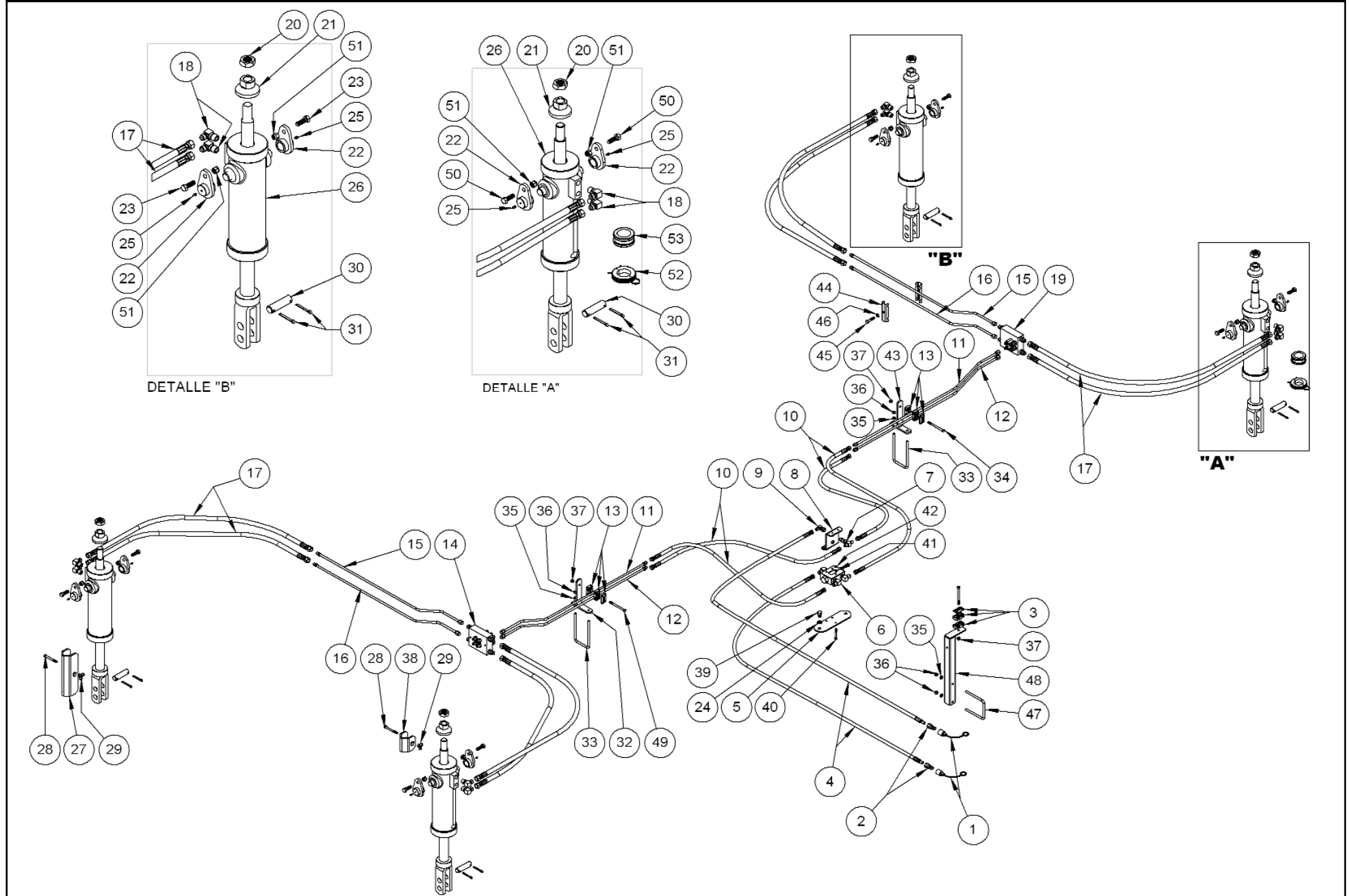
Picture N° 30

HYDRAULIC CIRCUIT FOR WORKING HITCH AND AUGER - 1 MODULE MACHINE



## HYDRAULIC CIRCUIT FOR WORKING HITCH AND AUGER - 1 MODULE MACHINE

Item	Code	Description	Item	Code	Description
1	18.43.01.039	Protector cap -BTHP 1/2"	17	16.65.273.01	Strap - rear quick-attach coupling support
2	18.43.01.018	Quick attach coupling -1/2" NPT	18	16.64.056.01	U-bolt - mainframe anchorage
3	18.43.05.128	Hose -1/4" SAE 100 R2 AT x 3700 - Male thread 1/2" NPT - Swivel 9/16"UNF JIC 37°	19	18.02.10.008	Lock washer - 5/8" double-chrome coated
			20	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated
4	18.43.04.113	90° elbow fitting - Male thread 9/16" UNF JIC 37° both ends	21	16.65.269.00	Hoses holder
5	18.43.05.144	Hose -1/4"SAE 100 R2 AT x 640- Swivel 9/16"UNF JIC 37° both ends (for 5m frame)	22	16.65.049.01	Grampa de 1/2" p/tubo 140
			23	18.02.10.006	Lock washer - 1/2" double-chrome coated
5	18.43.05.145	Hose -1/4"SAE 100 R2 AT x 1160- Swivel 9/16"UNF JIC 37° both ends (for 6m frame)	24	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated
			25	18.03.10.023	Hex head bolt - BSW 5/16" x 2 1/4" double-chrome coated
5	18.43.05.146	Hose -1/4"SAE 100 R2 AT x 1315- Swivel 9/16"UNF JIC 37° both ends (for 7m frame)	26	18.37.01.014	Lock nut - 5/16"
			27	18.43.01.840	Cylinder - Ø2" hitch operation
6	18.43.04.172	Left-side connector block	28	16.65.194.01	Pin cylinder lock - Head
7	18.43.03.122	Hydraulic pipe -3/8"x1360-Male thread 9/16"UNF JIC37°- Upper 90° elbow fitting - Male thread 9/16"UNF JIC37° (for 5/6m frames)	29	18.25.01.019	Split cotter pin 6 x 50
			30	16.65.195.01	Pin cylinder lock - Rod
7	18.43.03.124	Hydraulic pipe -3/8"x1735-Male thread 9/16"UNF JIC37°- Upper 90° elbow fitting - Male thread 9/16"UNF JIC37° (for 7m frame)	31	18.01.10.009	Flat washer - 3/4" double-chrome coated
			32	18.02.10.004	Lock washer - 3/8" double-chrome coated
8	18.43.03.123	Hydraulic pipe -3/8"x1360-Male thread 9/16"UNF JIC37°- Lower 90° elbow fitting - Male thread 9/16"UNF JIC37° (for 5/6m frames)	33	18.03.10.030	Hex head bolt - BSW 3/8" x 3/4" double-chrome coated
8	18.43.03.125	Hydraulic pipe -3/8"x1735-Male thread 9/16"UNF JIC37°- Lower 90° elbow fitting - Male thread 9/16"UNF JIC37° (for 7m frame)			
9	18.43.04.173	90° elbow fitting w/ restrictor - Ø1mm Male thread 1/4" NPT- Male thread 9/16" UNF JIC37°			
10	18.43.05.147	Hose -1/4"SAE 100 R2 AT x 1340- Swivel 9/16"UNF JIC 37° both ends			
11	18.43.07.008	Hose support 3/8" R2 AT			
12	18.03.02.019	Hex head bolt M8 x 1.25 x 35mm double-chrome coated			
13	18.43.05.148	Hose - 3/8"SAE 100 R2 AT x 7000- Male thread 1/2"NPT - Swivel 3/4" UNF JIC 37°			
14	18.43.04.163	Adapter - Male thread 3/4"UNF JIC37°-Male thread 1/2"NPT			
15	18.43.04.169	Quick-attach coupling - 1/2"NPT			
16	18.43.04.164	Protector cap BTMP 1/2"			



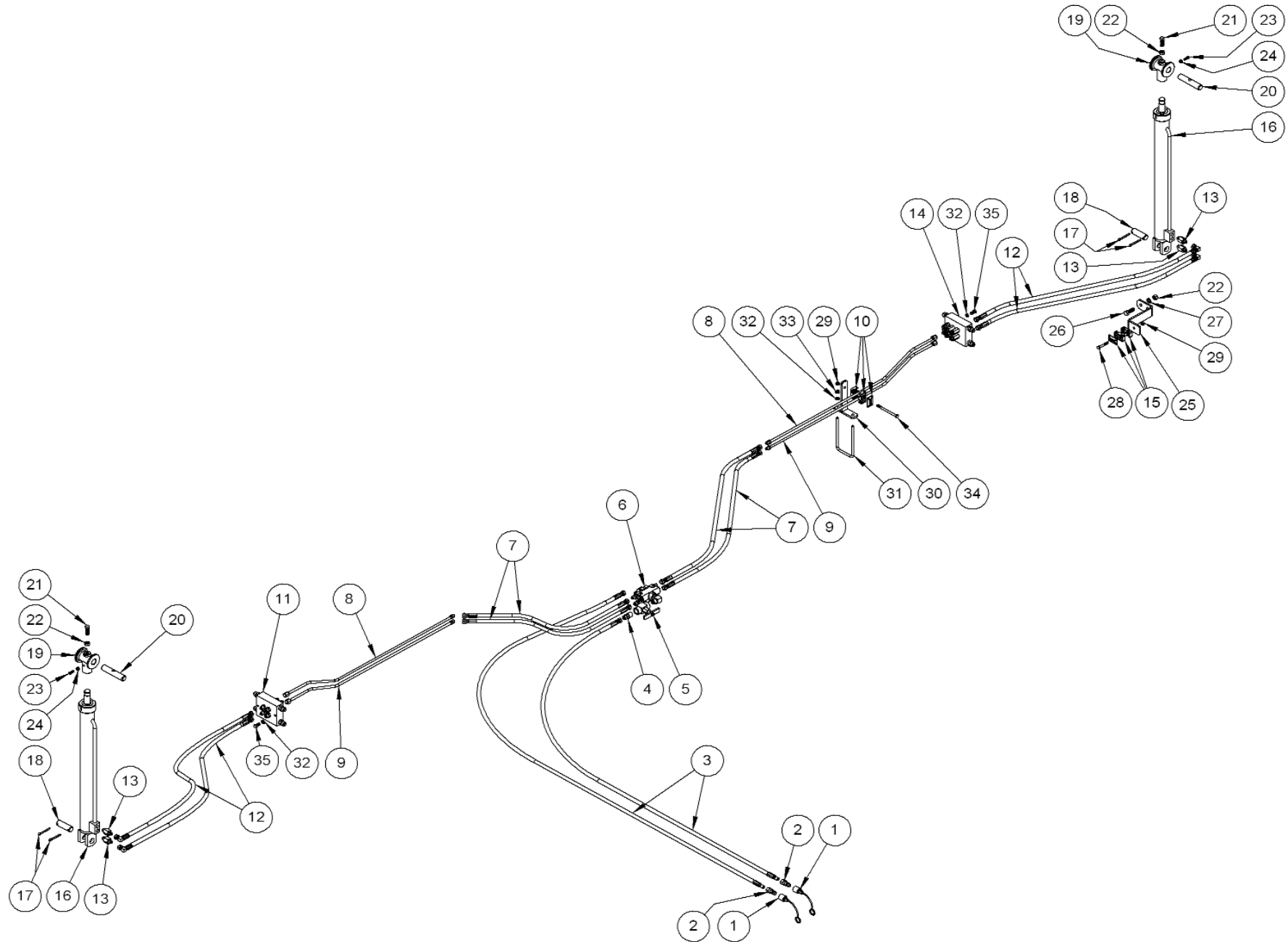
## HYDRAULIC CIRCUIT FOR TRANSPORT AND WORKING WHEELS - 1 MODULE MACHINE

Item	Code	Description	Item	Code	Description
1	18.43.01.039	Protector cap BTHP 1/2"	21	16.33.069.00	Nut -cylinder adjustment
2	18.43.01.018	Quick attach coupling 1/2"NPT	22	16.64.174.01	Cylinders lock - wheels operation
3	18.43.07.008	Hose support 3/8" R2 AT	23	18.03.10.053	Hex head bolt - BSW 1/2" x 1 1/2" d.chrome coated
4	18.43.05.064	Hose - 3/8"SAE 100R2AT x 5000- Male thread 1/2" NPT- Swivel 3/4"UNF JIC 37°	24	18.02.10.006	Lock washer 1/2" double chrome coated
			25	18.29.01.001	Straight grease nipple 1/4" NF
5	16.64.181.01	Strap - flow control valve support	26	18.43.01.841	Cylinder - Ø4" wheels operation
6	18.43.02.010	Proportional flow control valve	27	16.64.175.00	Cylinder lock - transport wheels
7	18.43.04.020	Tee fitting- Male thread 3/4"UNF JIC37°(all ends)	28	18.03.10.026	Hex head bolt - BSW 5/16" x 3" d.chrome coated
8	16.64.180.01	Bracket - sequence valve support	29	16.17.160.00	Wing nut
9	18.43.04.099	90° elbow fitting - Male thread 3/4"UNF JIC 37°-Swivel 3/4"UNF JIC37°	30	16.64.732.01	Drive wheel cylinder pin
			31	18.25.01.019	Split cotter pin 6 x 50
10	18.43.05.127	Hose -3/8" SE100 R2 AT x 370-Swivel 3/4"UNF JIC 37° both ends	32	16.65.248.00	Hydraulic pipes anchorage
			33	16.65.252.01	Clamp - hydraulic pipes anchorage support
11	18.43.03.155	Hydraulic upper pipe 1/2"x 1415- Swivel 3/4"UNF JIC 37°-45°elbow fitting - M.thread 3/4"UNF JIC37°(f/5-6m)	34	18.03.10.027	Hex head bolt - BSW 5/16" x 3 1/4" d.chrome coated
			35	18.02.10.004	Lock washer 3/8" double chrome coated
11	18.43.03.157	Hydraulic upper pipe 1/2"x 1800-Swivel 3/4"UNF JIC 37° -45° elbow fitting-M.thread 3/4"UNF JIC37° (for 7m)	36	18.16.10.004	Hex nut -BSW 3/8" double chrome coated
			37	18.37.01.014	Lock nut 5/16"
12	18.43.03.156	Hydraulic lower pipe 1/2"x 1415-Swivel 3/4"UNF JIC 37° -45°elbow fitting - M.thread 3/4"UNF JIC37°(f/5-6m)	38	16.64.176.00	Working position cylinder stop
			39	18.03.10.050	Hex head bolt - BSW 1/2" x 3/4" d.chrome coated
12	18.43.03.158	Hydraulic lower pipe 1/2"x 1800-Swivel 3/4"UNF JIC 37° -45°elbow fitting - M.thread 3/4"UNF JIC37°(for 7m)	40	18.03.10.013	Hex head bolt - BSW 1/4" x 2 1/4" d.chrome coated
			41	18.02.10.002	Lock washer 1/4" double chrome coated
13	18.43.07.007	1/2" Hydraulic pipe support	42	18.16.10.002	Hex nut -BSW 1/4" double chrome coated
14	18.43.04.172	Left side connector block	43	16.65.331.00	Left hydraulic pipes anchorage
15	18.43.03.126	Hydraulic upper pipe 1/2"x 1500-Swivel 3/4"UNF JIC37°- Male thread 3/4"UNF JIC37°	44	16.64.285.01	"U"brackets - hydraulic pipes fixing
			45	18.03.10.034	Hex head bolt - BSW 3/8" x 1 3/4" d.chrome coated
16	18.43.03.127	Hydraulic lower pipe 1/2"x 1500-Swivel 3/4"UNF JIC37°- Male thread 3/4"UNF JIC37°	46	18.02.10.004	Lock washer 3/8" double chrome coated
			47	16.64.317.01	U-bolt - hoses holder anchorage
17	18.43.05.152	Hose -3/8" SE100 R2 AT x 1350-Swivel 3/4"UNF JIC 37° both ends	48	16.64.316.00	Bracket - hoses holder
			49	18.03.10.155	Hex head bolt - BSW 5/16" x 4 1/2" d.chrome coated
18	18.43.04.002	90° elbow fitting - Male thread 1/2"NPT - Male thread 3/4" UNF JIC37°	50	18.03.10.054	Hex head bolt - BSW 1/2" x 1 3/4" d.chrome coated
			51	18.37.01.013	Lock nut 1/2"
19	18.43.04.174	Right side connector block	52	15.64.503.00	Stop set - 16mm thick
20	18.23.01.012	Flat nut R.SAE 1 1/8"	53	15.64.890.10	Stop set - 35mm thick



Picture N° 32

HYDRAULIC CIRCUIT FOR MARKERS - 1 MODULE - 5 AND 6 METERS

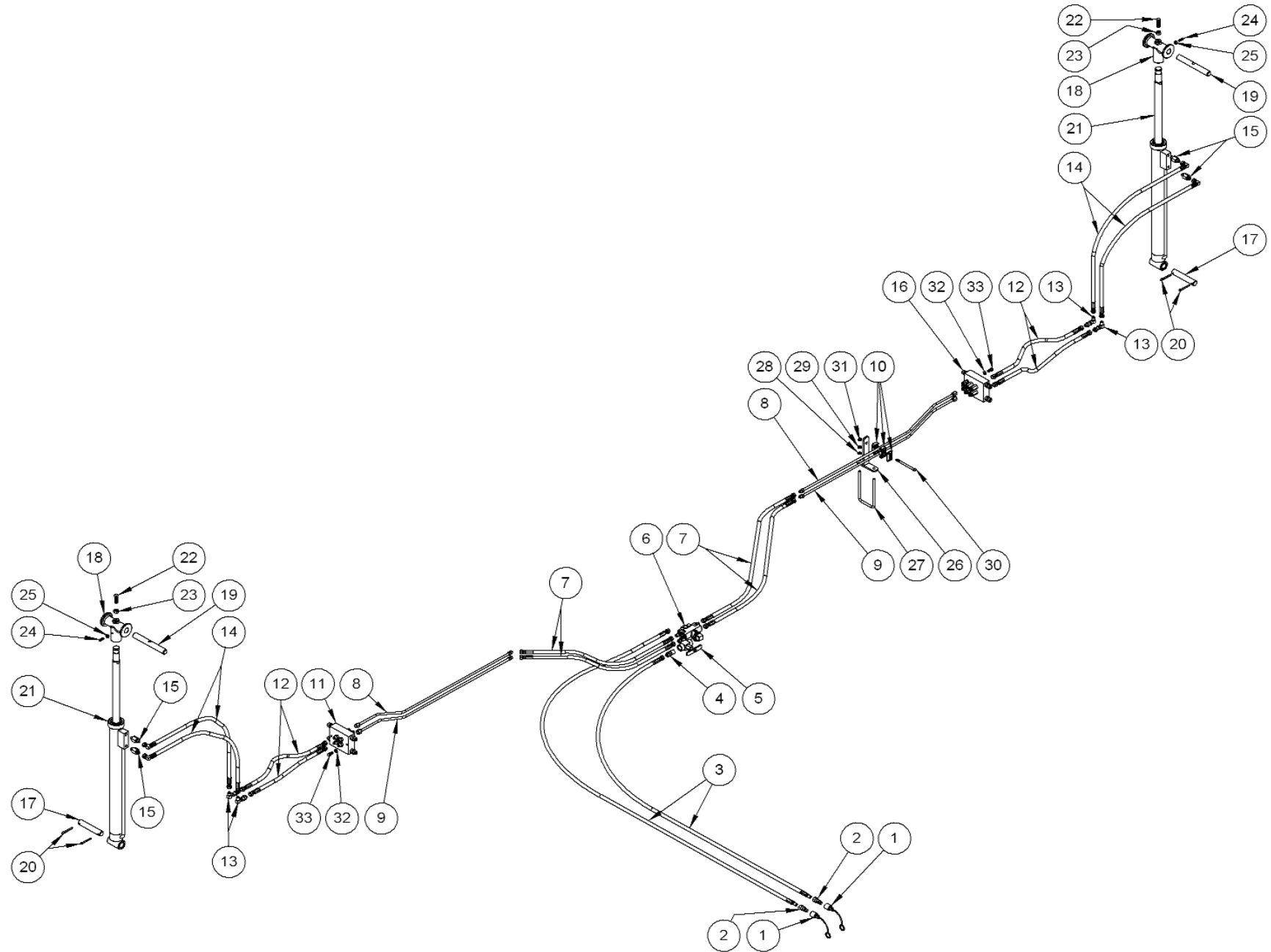


**HYDRAULIC CIRCUIT FOR MARKERS - 1 MODULE - 5 AND 6 METERS**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	18.43.01.039	Protector cap BTHP 1/2"	25	16.65.270.00	Marker hose support - 1 frame machine
2	18.43.01.018	Quick attach coupling 1/2"	26	18.03.10.053	Hex head bolt BSW 1/2" x 1 1/2" double chrome coated
3	18.43.05.064	Hose -3/8" SAE100 R2 AT x 5000- Male thread 1/2"NPT- Swivel 3/4"UNF JIC37°	27	18.02.10.006	Lock washer 1/2" double chrome coated
			28	18.03.10.023	Hex head bolt BSW 5/16" x 2 1/4" d. chrome coated
4	18.43.04.022	Adapter- Male thread 1/2"NPT-Male thread 3/4"UNFJIC37°	29	18.37.01.014	Lock nut 5/16"
5	18.43.02.053	Blocking valve - 2V/2P - Thread: 1/2" NPT	30	16.65.248.00	"T" strap - hydraulic pipes holder
6	18.43.01.321	Markers sequence valve	30	16.65.331.00	Left "T" strap - hydraulic pipes holder
7	18.43.05.158	Hose -1/4" SAE100 R2 AT x 340- Swivel 3/4"UNF JIC37° both ends	31	16.65.252.01	Clamp - hydraulic pipes holder anchorage
			32	18.02.10.004	Lock washer 3/8" double chrome coated
8	18.43.03.134	Hydraulic upper pipe 3/8" x 1380-Swivel 9/16"UNF JIC37°- Welded adapter male thread 9/16" UNF JIC37°	33	18.16.10.004	Hex nut BSW 3/8" double chrome coated
			34	18.03.10.188	Hex head bolt BSW 5/16" x 4" double chrome coated
9	18.43.03.135	Hydraulic lower pipe 3/8" x 1380-Swivel 9/16"UNF JIC37°- Welded adapter male thread 9/16" UNF JIC37°	35	18.03.10.030	Hex head bolt BSW 3/8" x 3/4" double chrome coated
10	18.43.07.006	3/8" hydraulic pipe support			
11	18.43.04.172	Left side connector block			
12	18.43.05.159	Hose -1/4" SAE100 R2 AT x1800- Swivel 9/16"UNF JIC37° both ends (for 5 meters frame)			
12	18.43.05.160	Hose 1/4" SAE100 R2 AT x2300- Swivel 9/16"UNF JIC37° both ends (for 6 meters frame)			
13	18.43.04.177	Restrictor - Male thread 1/4"NPT- Male thread 9/16" UNFJIC37° 4 lts/min			
14	18.43.04.174	Right side connector block			
15	18.43.07.009	Hose support 1/4" R2 AT			
16	18.43.01.764	Marker operation cylinder			
17	18.25.01.019	Split cotter pin 6 x 50			
18	16.30.040.01	Pin - cylinder marker pivot			
19	16.54.295.00	Upper end - marker cylinder operation			
20	16.30.038.01	Pin - marker cylinder holder			
21	18.06.10.053	Square head bolt BSW 1/2" x 1 1/2" d.chrome coated			
22	18.16.10.006	Hex nut BSW 1/2" double chrome coated			
23	18.06.10.013	Square head bolt BSW 5/16" x 3/4" d.chrome coated			
24	18.16.10.003	Hex nut BSW 5/16" double chrome coated			

Picture N° 33

HYDRAULIC CIRCUIT FOR MARKERS - 1 MODULE - 7 METERS

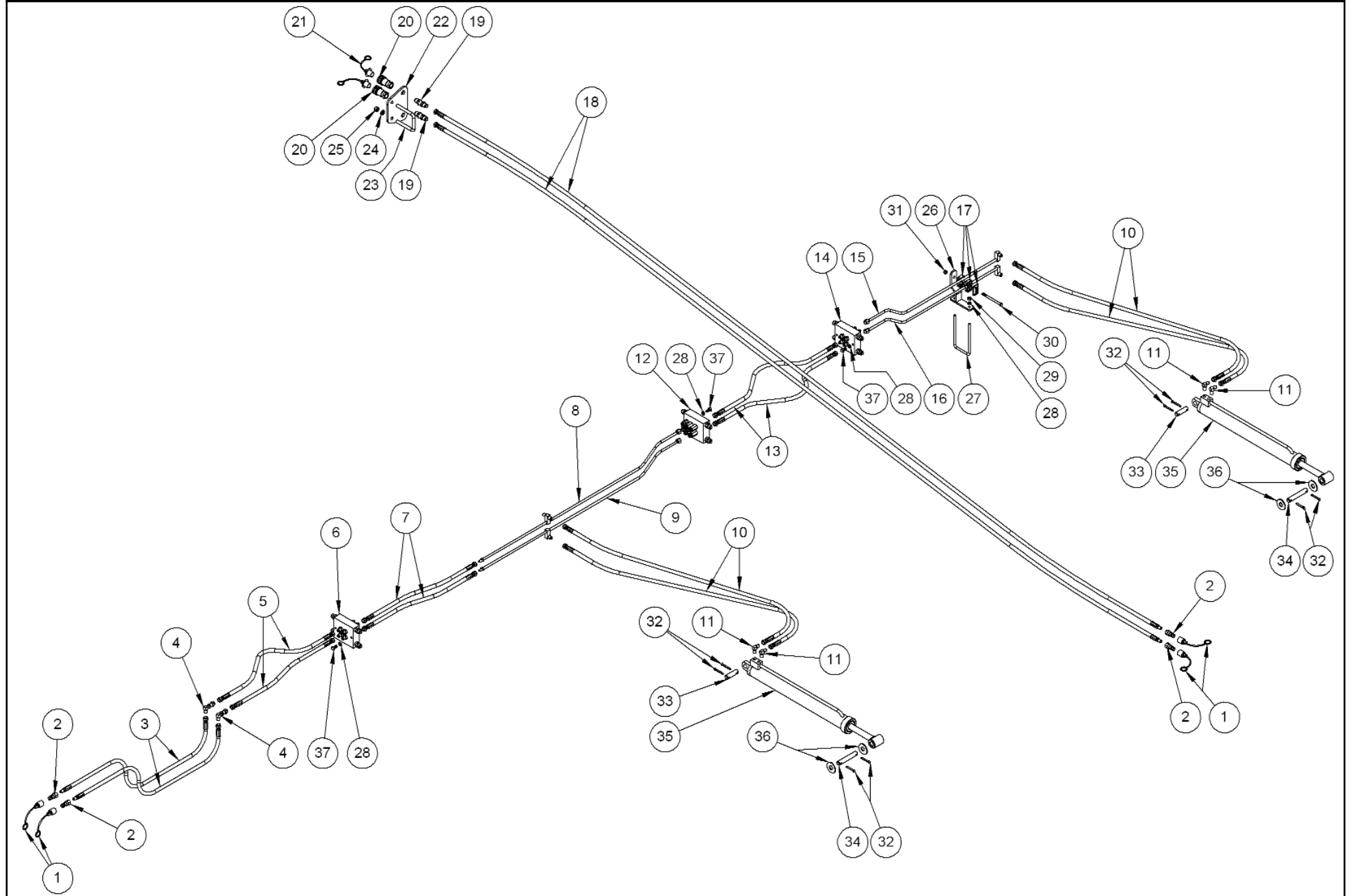


**HYDRAULIC CIRCUIT FOR MARKERS - 1 MODULE - 7 METERS**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	18.43.01.039	Protector cap BTHP 1/2"	24	18.06.10.013	Square head bolt BSW 5/16" x 3/4" double chrome coated
2	18.43.01.018	Quick attach coupling 1/2"	25	18.16.10.003	Hex nut BSW 5/16" double chrome coated
3	18.43.05.064	Hose 3/8" SAE100 R2 AT x 5000- Male thread 1/2"NPT- Swivel 3/4"UNF JIC37°	26	16.65.248.00	"T" strap - hydraulic pipes holder
			26	16.65.331.00	Left "T" strap - hydraulic pipes holder
4	18.43.04.022	Adapter- Male thread 1/2"NPT-Male thread 3/4"UNFJIC37°	27	16.65.252.01	Clamp - hydraulic pipes holder anchorage
5	18.43.02.053	Blocking valve - 2V/2P - Thread: 1/2" NPT	28	18.02.10.004	Lock washer 3/8" double chrome coated
6	18.43.01.321	Markers sequence valve	29	18.16.10.004	Hex nut BSW 3/8" double chrome coated
7	18.43.05.158	Hose -1/4" SAE100 R2 AT x 340- Swivel 3/4"UNF JIC37° both ends	30	18.03.10.188	Hex head bolt BSW 5/16" x 4" d. chrome coated
			31	18.37.01.014	Lock nut 5/16"
8	18.43.03.136	Hydraulic upper pipe 3/8" x 1750-Swivel 9/16"UNF JIC 37°- Welded adapter male thread 9/16" UNF JIC37°	32	18.02.10.004	Lock washer 3/8" double chrome coated
			33	18.03.10.030	Hex head bolt BSW 3/8" x 3/4" d. chrome coated
9	18.43.03.137	Hydraulic lower pipe 3/8" x 1750-Swivel 9/16"UNF JIC37°- Welded adapter male thread 9/16" UNF JIC37°			
10	18.43.07.006	3/8" hydraulic pipe support			
11	18.43.04.172	Left side connector block			
12	18.43.05.161	Hose -1/4" SAE100 R2 AT x1750- Swivel 9/16"UNF JIC37° both ends			
13	18.43.04.113	90° elbow fitting - Male thread 9/16"UNF JIC37° both ends			
14	18.43.05.162	Hose -1/4" SAE100 R2 AT x 850- Swivel 9/16"UNF JIC37° - Swivel 90° 9/16"UNF JIC37°			
15	18.43.04.177	Restrictor - Male thread 1/4"NPT- Male thread 9/16" UNFJIC37° 4 lts/min			
16	18.43.04.174	Right side connector block			
17	16.64.173.01	Pin - cylinder marker pivot			
18	16.65.318.00	Upper end - marker cylinder operation			
19	16.65.319.01	Pin - cylinder upper end			
20	18.25.01.019	Split cotter pin 6 x 50			
21	18.43.01.842	Cylinder Ø2 1/2" marker operation			
22	18.06.10.053	Square head bolt BSW 1/2" x 1 1/2" double chrome coated			
23	18.16.10.006	Hex nut BSW 1/2" double chrome coated			

Picture N° 34

HYDRAULIC CIRCUIT FOR WORKING HITCH AND AUGER - 2 MODULE MACHINE

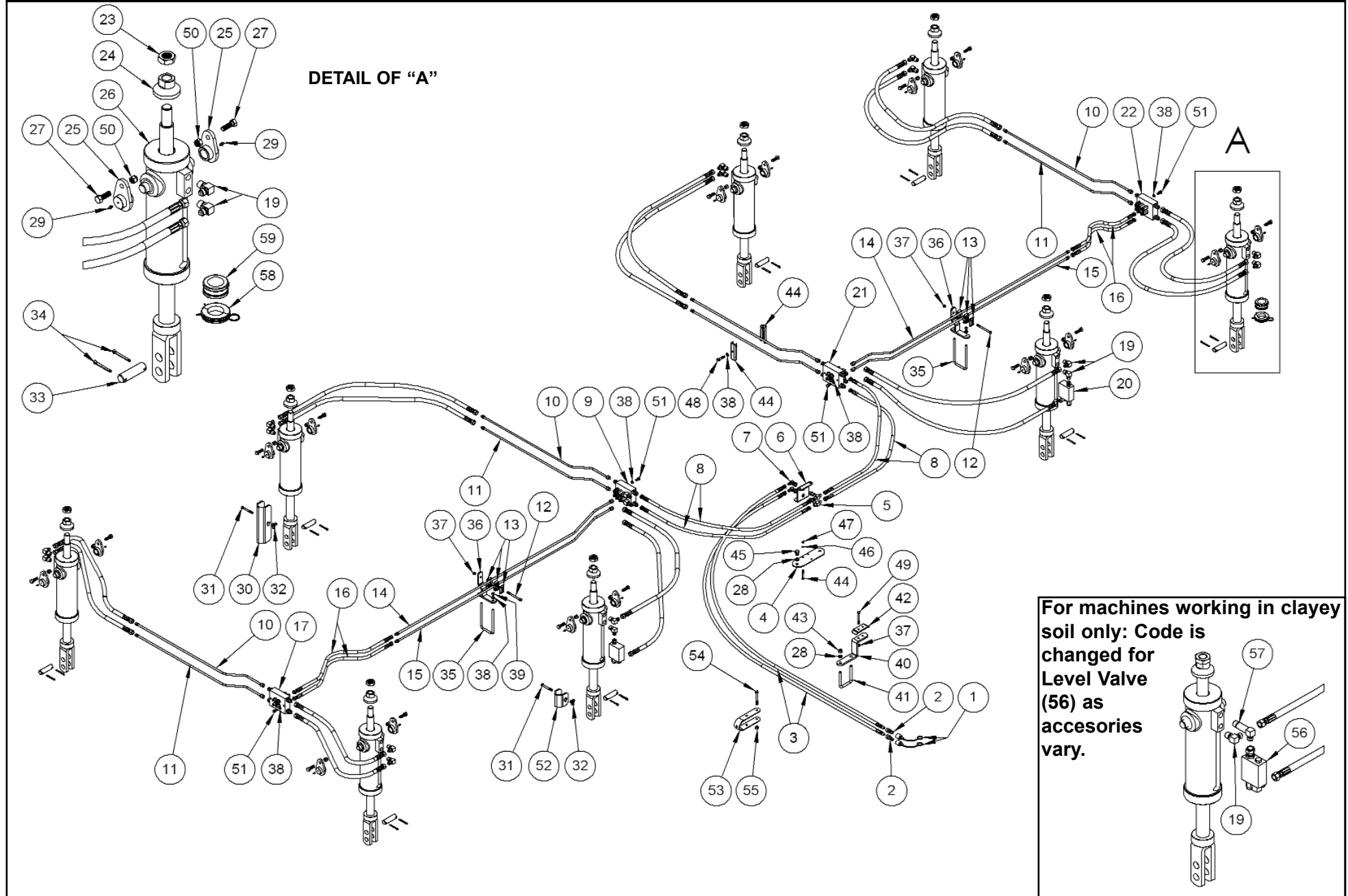


## HYDRAULIC CIRCUIT FOR WORKING HITCH AND AUGER - 2 MODULE MACHINE

Item	Code	Description	Item	Code	Description
1	18.43.01.039	Protector cap -BTHP 1/2"	18	18.43.05.156	Hose -3/8"SAE100 R2 AT x 10500 - Male thread 1/2" NPT-Swivel 3/4" UNF JIC37° (for 10m machine)
2	18.43.01.018	Quick attach coupling - 1/2"	18	18.43.05.157	Hose -3/8"SAE100 R2 AT x 12820 - Male thread 1/2" NPT-Swivel 3/4" UNF JIC37° (for 12m machine)
3	18.43.05.128	Hose -1/4" SAE 100 R2 AT x 3700 - Male thread 1/2" NPT - swivel 9/16"UNF JIC 37°	19	18.43.04.163	Adapter - Male thread 3/4" UNF JIC37° - Male thread 1/2" NPT
4	18.43.04.113	90° elbow fitting - Male thread 9/16" UNF JIC 37° both ends	20	18.43.04.169	Quick attach coupling 1/2"NPT
5	18.43.05.144	Hose -1/4" SAE100 R2 AT x 640- Swivel 9/16" UNF JIC37° both ends (for 10 meters machine)	21	18.43.04.164	Protector cap BTMP 1/2"
5	18.43.05.145	Hose -1/4"SAE100 R2 AT x 1160 - Swivel 9/16" UNF JIC37° both ends (for 12 meters machine)	22	16.65.251.01	Bracket - Quick attach coupling holder
6	18.43.04.172	Left side connector block	23	16.65.249.01	Clamp - hitch hose holder
7	18.43.05.139	Hose -1/4"SAE100 R2 AT x 690- Swivel 9/16" UNF JIC37° both ends	24	18.02.10.006	Lock washer 1/2" double chrome coated
8	18.43.03.130	Hydraulic upper pipe 3/8"x 2850 - Swivel 9/16" UNF JIC 37°- "T" fitting Male thread 9/16" UNF JIC 37°- Male thread 9/16" UNF JIC 37°	25	18.16.10.006	Hex nut BSW 1/2" double chrome coated
9	18.43.03.131	Hydraulic lower pipe 3/8"x 2850 - Swivel 9/16" UNF JIC 37°- "T" fitting Male thread 9/16" UNF JIC 37°- Male thread 9/16" UNF JIC 37°	26	16.65.365.00	Hydraulic tubing holder
10	18.43.05.154	Hose -1/4"SAE100 R2 AT x 1180 - Swivel 9/16" UNF JIC37° both ends	27	16.65.252.01	Clamp - tubing holder anchor
11	18.43.04.173	Elbow fitting w/ Ø1mm restrictor hole- Male1/4"NPT-Male 9/16"UNF JIC37°	28	18.02.10.004	Lock washer 3/8" double chrome coated
12	18.43.04.175	Left-center connecting block	29	18.16.10.004	Hex nut BSW 3/8" double chrome coated
13	18.43.05.155	Hose - 1/4"SAE100 R2 AT x 2780 - Swivel 9/16" UNF JIC37° both ends	30	18.03.10.155	Hex head bolt BSW 5/16"x 4 1/2" d.chrome coated
14	18.43.04.176	Right-center connecting block	31	18.37.01.014	Lock nut 5/16"
15	18.43.03.132	Hydraulic upper pipe 3/8"x1450- Swivel 9/16" UNF JIC 37°- 90° elbow fitting Male thread 9/16"UNFJIC37°	32	18.25.01.019	Split cotter pin 6 x 50
16	18.43.03.133	Hydraulic lower pipe 3/8"x1450- Swivel 9/16" UNF JIC 37°- 90° elbow fitting Male thread 9/16" UNF JIC 37°	33	16.65.194.01	Pin cylinder lock - Head
17	18.43.07.006	3/8" hydraulic pipe support	34	16.65.195.01	Pin cylinder lock - Rod
			35	18.43.01.840	Cylinder - Ø2" hitch operation
			36	18.01.10.009	Flat washer 3/4" double chrome coated
			37	18.03.10.030	Hex head bolt BSW 3/8" x 3/4" d.chrome coated

Picture N° 35

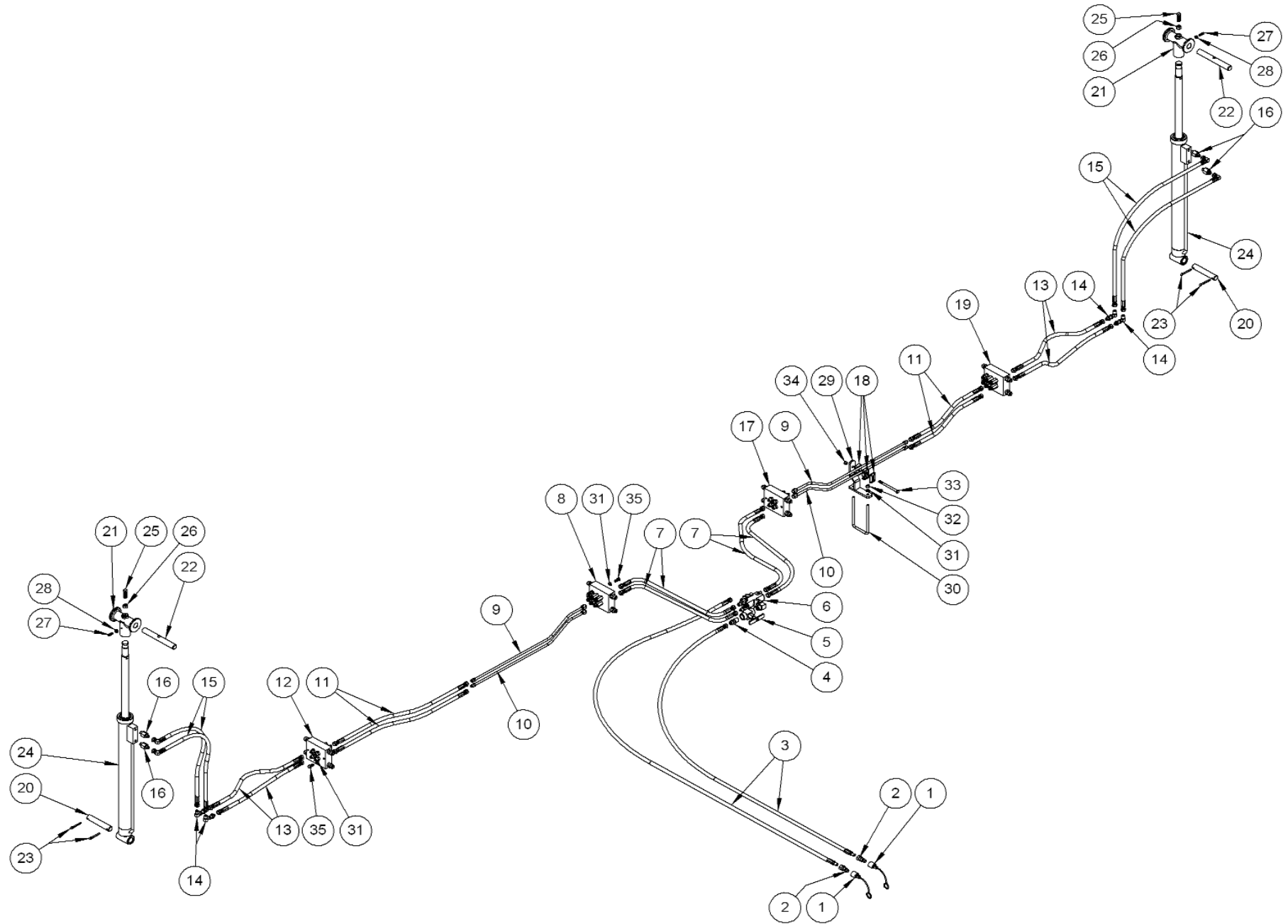
HYDRAULIC CIRCUIT FOR TRANSPORT AND WORKING WHEELS - 2 MODULE MACHINE



## HYDRAULIC CIRCUIT FOR TRANSPORT AND WORKING WHEELS - 2 MODULE MACHINE

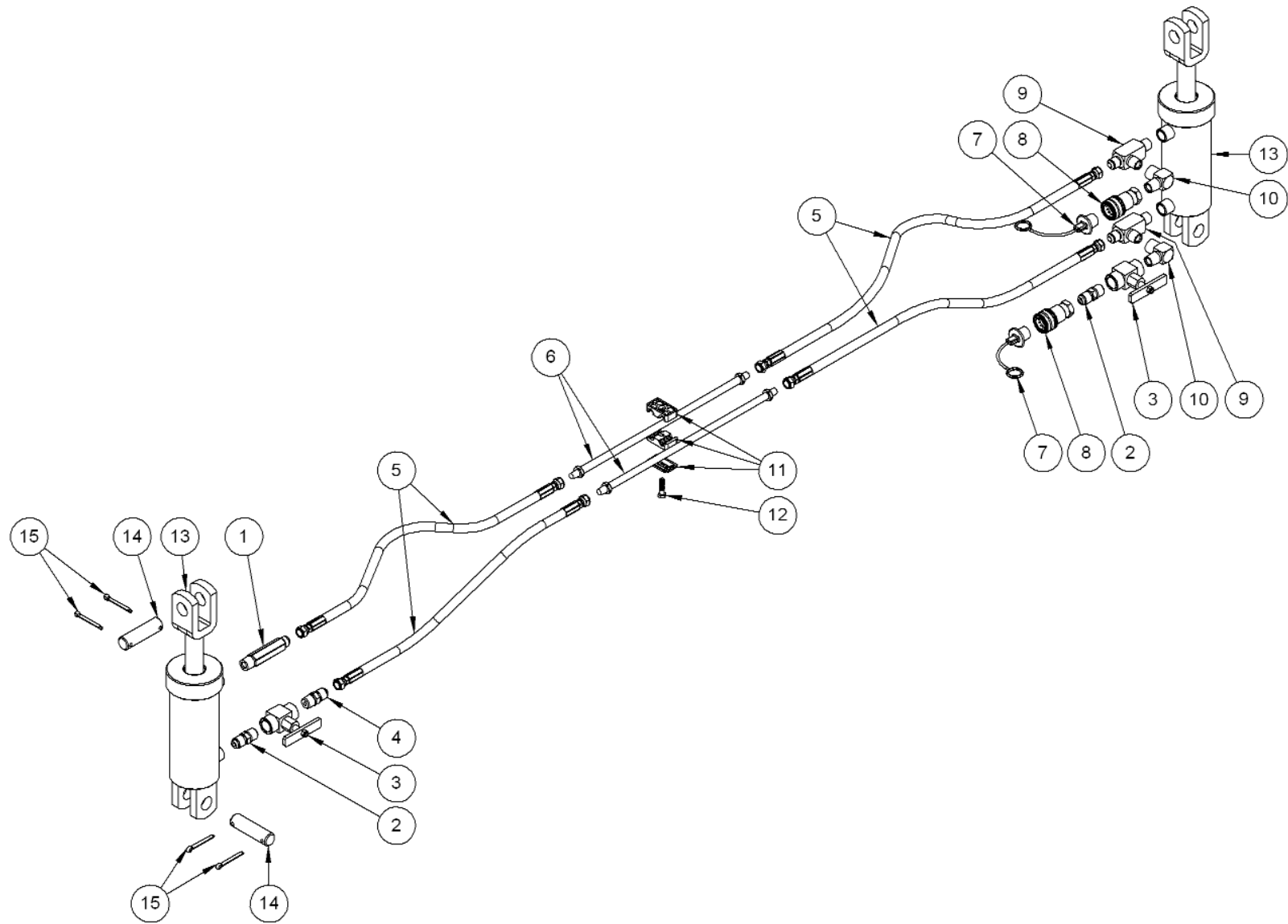
Item	Code	Description	Item	Code	Description
1	18.43.01.039	Protector cap - BTHP 1/2"	25	16.64.174.01	Cylinder lock - wheels operation
2	18.43.01.018	Quick attach coupling - 1/2" NPT	26	18.43.01.841	Cylinder - Ø4" wheels operating
3	18.43.05.149	Hose -3/8"SAE100 R2AT x 8000-Swivel 3/4" UNF JIC37°- Male thread 1/2"NPT (for 10m machine)	27	18.03.10.054	Hex head bolt BSW 1/2" x 1 3/4" double chrome coated
3	18.43.05.153	Hose -3/8"SAE100 R2AT x 9820-Swivel 3/4" UNF JIC37°- Male thread 1/2"NPT (for 12m machine)	28	18.02.10.006	Lock nut 1/2" double chrome coated
4	16.64.181.01	Strap - flow control valve support	29	18.29.01.001	Straight grease nipple 1/4" NF
5	18.43.04.020	"Tee" fitting - Male thread 3/4"UNF JIC37° (3 ends)	30	16.64.175.00	Cylinder lock - transport wheels
6	16.64.500.01	Bracket - sequence valve support	31	18.03.10.026	Hex head bolt BSW 5/16" x 3" double chrome coated
7	18.43.04.099	90° elbow fitting -Male thread 3/4"UNF JIC 37°- Swivel 3/4" UNF JIC37°	32	16.17.160.00	Wing nut
8	18.43.05.150	Hose -3/8"SAE100 R2AT x 1320-Swivel 3/4" UNF JIC37° both ends	33	16.64.732.01	Lock pin - wheels cylinder
9	18.43.04.175	Left-center connecting block	34	18.25.01.019	Split cotter pin 6 x 50
10	18.43.03.126	Hydraulic upper pipe 1/2" x 1500-Male thread 3/4" UNF JIC37°-Swivel 3/4"UNF JIC37°	35	16.65.252.01	Clamp - tubing holder anchor
11	18.43.03.127	Hydraulic lower pipe 1/2" x 1500-Male thread 3/4"UNF JIC37°-Swivel 3/4"UNF JIC37°	36	16.65.365.00	Hydraulic tubing holder
12	18.03.10.155	Hex head bolt BSW 5/16" x 4 1/2" d.chrome coated	37	18.37.01.014	Lock nut 5/16"
13	18.43.07.007	Hydraulic pipe holders - 1/2"	38	18.02.10.004	Lock washer 3/8" double chrome coated
14	18.43.03.128	Hydraulic upper pipe 1/2" x 2950-Swivel 3/4"UNF JIC37°-45°elbow fitting Male thread 3/4"UNF JIC37°	39	18.16.10.004	Hex nut BSW 3/8" double chrome coated
15	18.43.03.129	Hydraulic lower pipe 1/2" x 2950-Swivel 3/4"UNF JIC37°-45°elbow fitting Male thread 3/4"UNF JIC37°	40	16.65.250.00	Strap - hitch hydraulic hoses holder
16	18.43.05.151	Hose -3/8"SAE100 R2AT x 750-Swivel 3/4" UNF JIC37° both ends	41	16.65.249.01	Clamp - hitch hoses support
17	18.43.04.172	Left side connector block	42	16.64.184.01	Covering straps for hoses holder
18	18.43.05.152	Hose -3/8"SAE100 R2AT x 1350-Swivel 3/4" UNF JIC37° both ends	43	18.16.10.006	Lock nut BSW 1/2" double chrome coated
19	18.43.04.002	90° elbow fitting -Male thread 1/2" NPT- Male thread 3/4" UNF JIC37°	44	18.03.10.013	Hex head bolt BSW 1/4" x 2 1/4" double chrome coated
20	18.43.02.054	Variable pressure valve - built-in check	45	18.03.10.050	Hex head bolt BSW 1/2" x 3/4" double chrome coated
21	18.43.04.176	Right-center connecting block	46	18.02.10.002	Lock washer 1/4" double chrome coated
22	18.43.04.174	Right side connector block	47	18.16.10.002	Lock nut BSW 1/4" double chrome coated
23	18.23.01.012	Flat nut SAE 1 1/8"	48	18.03.10.034	Hex head bolt BSW 3/8" x 1 3/4" double chrome coated
24	16.33.069.00	Nut - cylinder adjustment fixing	49	18.03.10.026	Hex head bolt BSW 5/16" x 3" double chrome coated
			50	18.37.01.013	Lock nut 1/2"
			51	18.03.10.030	Hex head bolt BSW 3/8" x 3/4" double chrome coated
			52	16.64.176.00	Wheel cylinder work position stopper
			53	16.65.407.01	Hoses supporting guide
			54	18.03.10.040	Hex head bolt BSW 3/8" x 3 1/4" double chrome coated
			55	18.37.01.011	Lock nut 3/8"
			56	18.43.04.181	90° Long elbow fitting -Male thread 1/2" NPT- Male thread 3/4" UNF JIC37°
			57	18.43.04.181	Variable pressure valve - built-in check
			58	15.64.503.00	Stop set - 16mm thick
			59	15.64.890.10	Stop set - 35mm thick





## HYDRAULIC CIRCUIT FOR MARKERS - 10 AND 12 METERS

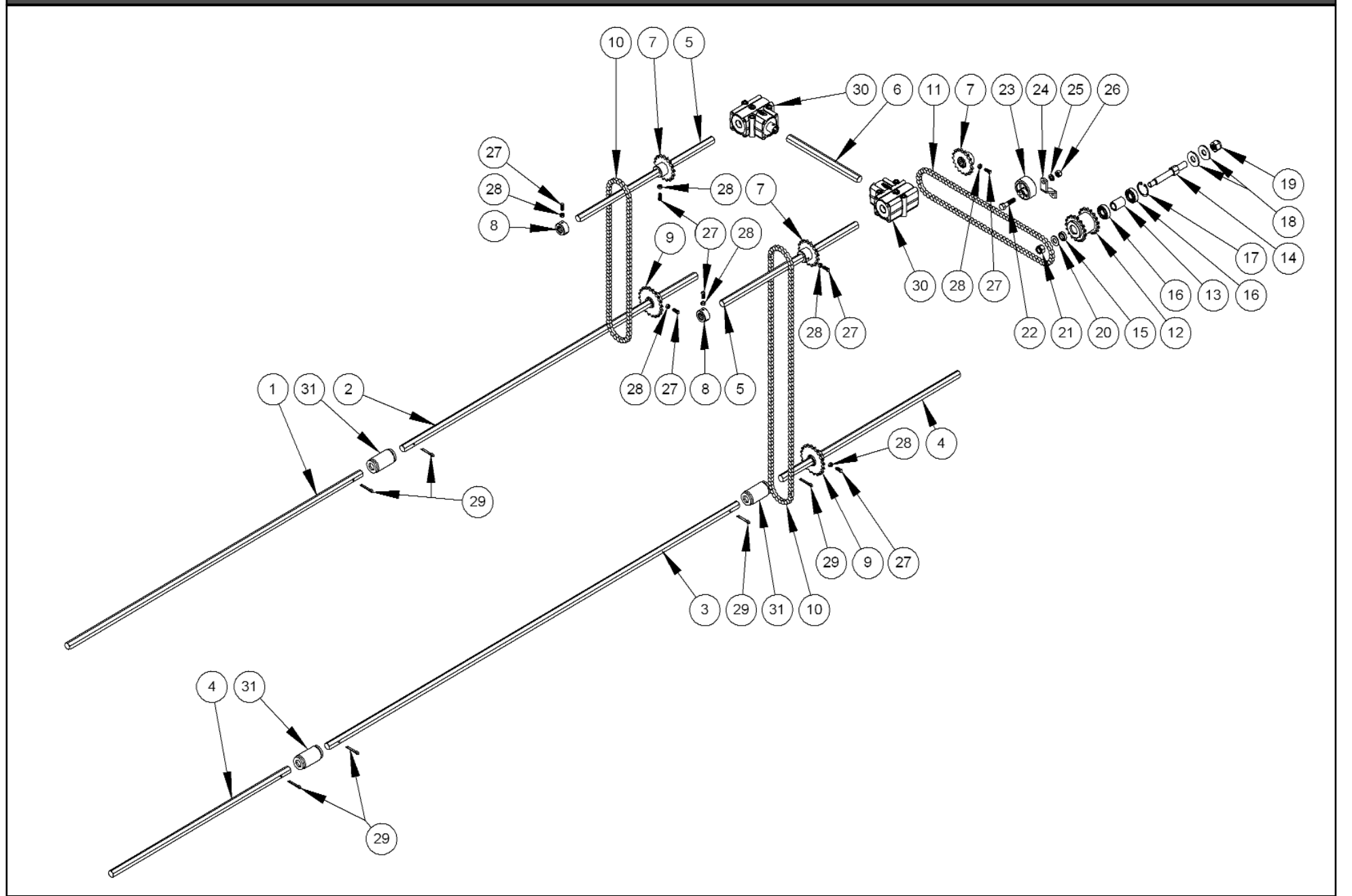
Item	Code	Description	Item	Code	Description
1	18.43.01.039	Protector cap BTHP 1/2"	21	16.65.318.00	Marker operation cylinder upper end
2	18.43.01.018	Quick attach coupling 1/2" NPT	22	16.65.319.01	Pin - marker cylinder upper end
3	18.43.05.149	Hose -3/8" SAE100 R2 AT x 8000- Male Thread 1/2"NPT- Swivel 3/4"UNF JIC37° (for/10 meters)	23	18.25.01.019	Split cotter pin 6 x 50
3	18.43.05.153	Hose -3/8" SAE100 R2 AT x 9820- Male Thread 1/2"NPT- Swivel 3/4"UNF JIC37° (for/12 meters)	24	18.43.01.842	Cylinder- Ø2 1/2" - marker operation
4	18.43.04.022	Adapter -Male Thread 1/2"NPT- Male Thread 3/4" UNFJIC 37°	25	18.06.10.053	Square head bolt -BSW 1/2" x 1 1/2" .double chrome coated
5	18.43.02.053	Block valve 2V/2P - Thread 1/2" NPT	26	18.16.10.006	Hex nut - BSW° 1/2" double chrome coated
6	18.43.01.321	Sequence valve for row markers	27	18.06.10.013	Square head bolt - BSW° 5/16" x 3/4" double chrome coated
7	18.43.05.163	Hose -1/4" SAE100 R2 AT x 1350- Swivel 9/16" UNF JIC37° both ends	28	18.16.10.003	Hex nut - BSW 5/16" double chrome coated
8	18.43.04.175	Left-center connecting block	29	16.65.365.00	Hydraulic tubing holder
9	18.43.03.138	Upper hydraulic tube - 3/8" x 2950-Swivel 9/16"UNF JIC 37°- Welded Adapter - Male 9/16" UNF JIC37°	30	16.65.252.01	Clamp - tubing holder anchor
10	18.43.03.139	Lower hydraulic tube3/8" x 2950-Swivel 9/16"UNF JIC37°- Welded Adapter - Male 9/16" UNF JIC37°	31	18.02.10.004	Lock washer - 3/8" double chrome coated
11	18.43.05.164	Hose -1/4" SAE100 R2 AT x 750- Swivel 9/16"UNF JIC37° both ends	32	18.16.10.004	Hex nut - BSW 3/8" double chrome coated
12	18.43.04.172	Left side connector block	33	18.03.10.155	Hex head bolt - BSW 5/16" x 4 1/2" double chrome coated
13	18.43.05.165	Hose -1/4" SAE100 R2 AT x 880- Swivel 9/16"UNF JIC37° both ends (for/10 meters)	34	18.37.01.014	Lock nut - 5/16"
13	18.43.05.166	Hose -1/4" SAE100 R2 AT x 1400- Swivel 9/16" UNF JIC37° both ends (for/12 meters)	35	18.03.10.030	Hex head bolt - BSW 3/8" x 3/4" double chrome coated
14	18.43.04.113	90° elbow fitting - Male 9/16" UNF JIC37° - both ends			
15	18.43.05.167	Hose -1/4" SAE100 R2 AT x 950- Swivel 9/16"UNF JIC37° - Swivel 90° 9/16"UNF JIC37°			
16	18.43.04.177	Restrictor fitting - Male 1/4" NPT- Male 9/16" UNF JIC 37° 4 liters/minute			
17	18.43.04.176	Center right block			
18	18.43.07.006	Hydraulic tubing holder - 3/8" R2 AT			
19	18.43.04.174	Side right block			
20	16.64.173.01	Pin - marker cylinder pivot			





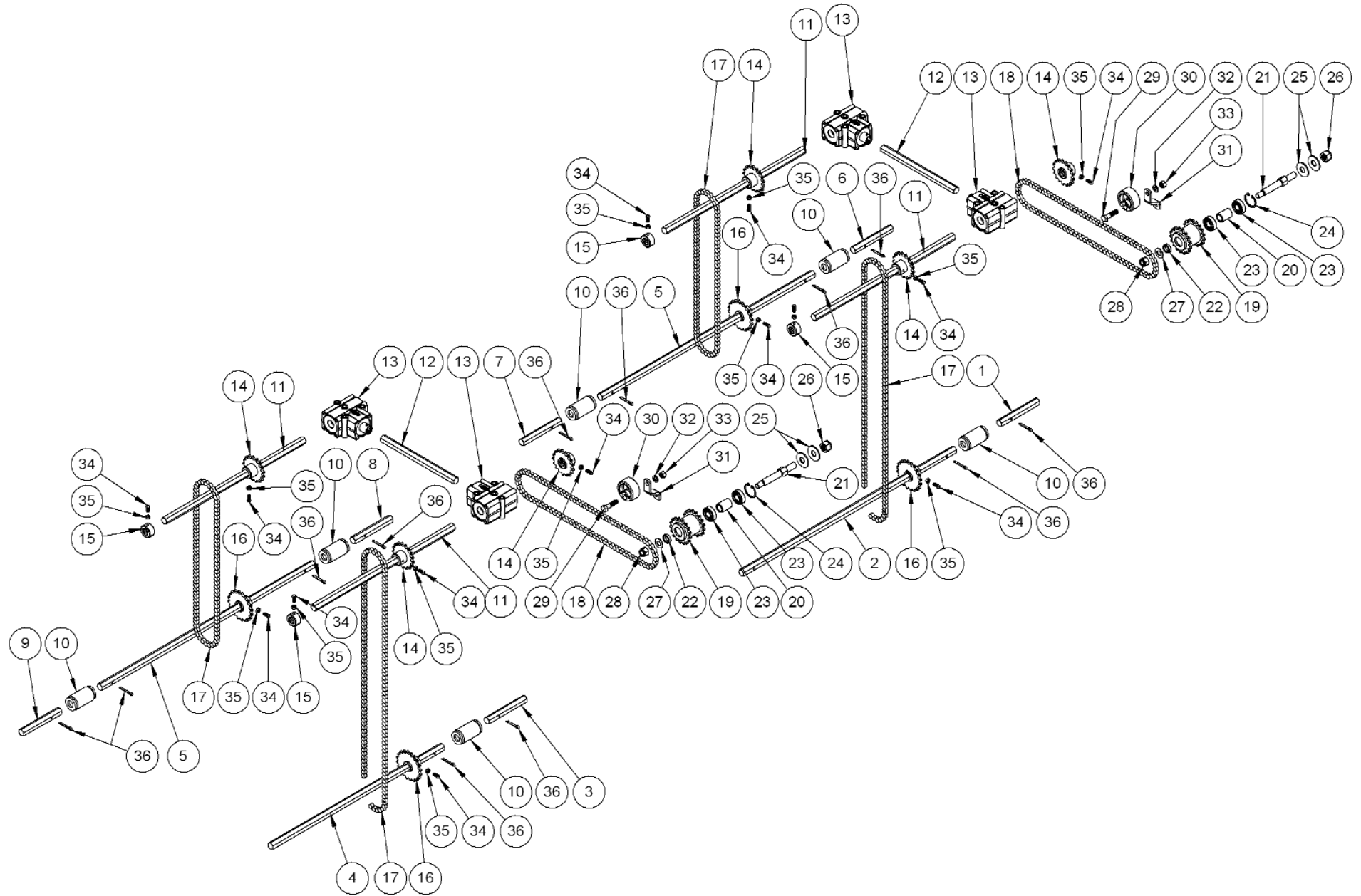
Picture N° 38

COARSE GRAINS PLANTING TRANSMISSION - 1 MODULE MACHINE



**COARSE GRAINS PLANTING TRANSMISSION - 1 MODULE MACHINE**

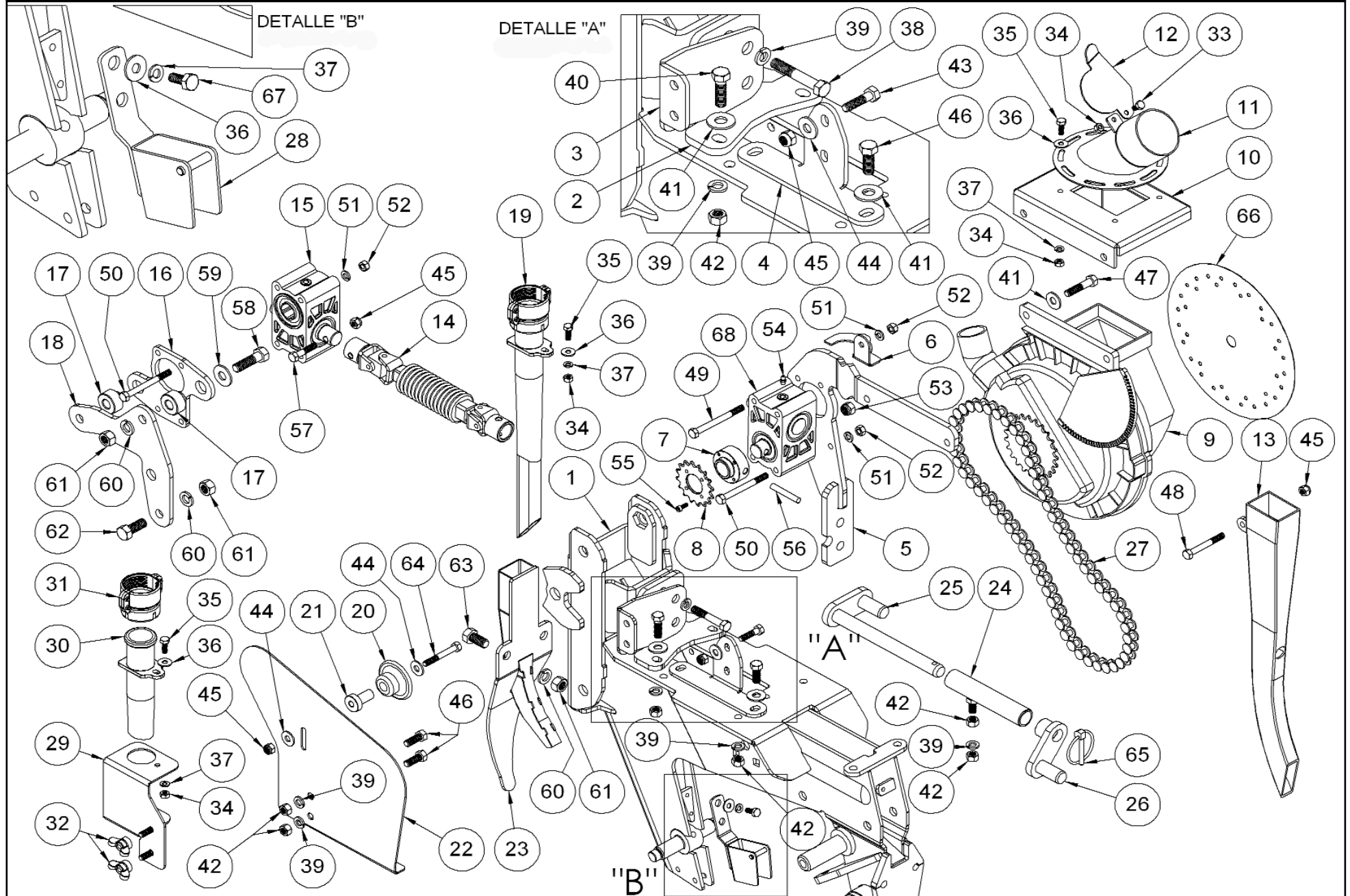
<b>Item</b>	<b>Código</b>	<b>Descripción</b>	<b>Item</b>	<b>Código</b>	<b>Descripción</b>
1	16.65.186.01	Hex shaft 22 - Length:990 single profile (5 meters)	31	16.64.272.01	Bushing - shaft guide linkage
1	16.65.257.01	Hex shaft 22 - Length:2740 single profile (6 and 7m)			
2	16.65.184.01	Hex shaft 22 - Length:3090 single profile (5m)			
2	16.65.257.01	Hex shaft 22 - Length:2740 single profile (6 and 7m)			
3	16.65.182.01	Hex shaft 22 - Length:3830 double profile (5, 6 and 7m)			
4	16.65.183.01	Hex shaft 22 - Length:685 single profile (5m)			
4	16.65.186.01	Hex shaft 22 - Length:990 single profile (6m)			
4	16.65.305.01	Hex shaft 22 - Length:1658 single profile (7m)			
5	16.65.178.01	Hex shaft -coarse grains transmission (5 and 10 m)			
5	16.65.256.01	Hex shaft - coarse grains transmission (6 and 12 m)			
5	16.65.304.01	Hex shaft - coarse grains transmission(7 m)			
6	16.65.179.01	Hex shaft conexión cajas escuadras			
7	16.64.383.01	Gear sprocket Z:17 eje de transmisión			
8	16.64.066.01	Bushing - transmission shaft stopper			
9	16.65.181.01	Gear sprocket Z:20 transmission shaft			
10	16.65.189.00	Roller chain - drive shaft/ coarse grains transmission			
11	16.65.188.00	Roller chain - double gear sprocket/ drive shaft			
12	16.65.175.01	Double gear sprocket Z:17-17 countershaft transmission			
13	16.65.177.01	Spacer bushing - Øext.30 - Øint.20.5			
14	16.65.176.01	Double gear sprocket shaft Z:17-17			
15	16.64.078.01	Spacer bushing - Øext.30 - Øint.22			
16	18.33.01.032	Bearing 6204 2RS			
17	18.32.01.011	Seeger ring 47.l			
18	18.01.10.009	Flat washer 3/4"			
19	18.37.01.015	Lock nut 3/4"			
20	18.01.10.008	Flat washer 5/8"			
21	18.37.01.012	Lock nut 5/8"			
22	18.03.10.055	Hex head bolt -BSW° 1/2" x 2" double chrome coated			
23	16.64.062.10	Roller chain tensioning rod			
24	16.65.169.01	Tensioner arm			
25	18.02.10.006	Lock washer - 1/2" double chrome coated			
26	18.16.10.006	Hex nut - BSW° 1/2" double chrome coated			
27	18.06.10.013	Square head bolt - BSW° 5/16" x 3/4" double chrome coated			
28	18.16.10.003	Hex nut - BSW° 5/16" double chrome coated			
29	18.25.01.012	Split cotter pin - 5 x 50			
30	15.65.855.10	90° gearbox - 1:1 relation			



**COARSE GRAINS PLANTING TRANSMISSION - 2 MODULE MACHINE**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	16.65.183.01	Hex shaft 22 - Length:685 Single profile (10 meters)	29	18.03.10.055	Hex head bolt -.BSW 1/2" x 2" double chrome coated
1	16.65.257.01	Hex shaft 22 - Length:2740 Single profile (12m)	30	16.64.062.10	Chain tensioning rod
2	16.65.182.01	Hex shaft 22 - Length:3830 doble perf. (10m)	31	16.65.169.01	Tensioner arm
2	16.65.257.01	Hex shaft 22 - Length:2740 Single profile (12m)	32	18.02.10.006	Lock washer -1/2" double chrome coated
3	16.65.183.01	Hex shaft 22 - Length:685 Single profile (10m)	33	18.16.10.006	Hex nut- BSW 1/2" double chrome coated
3	16.65.257.01	Hex shaft 22 - Length:2740 Single profile (12m)	34	18.06.10.013	Square head bolt - BSW 5/16" x 3/4" double chrome coated
4	16.65.184.01	Hex shaft 22 - Length:3090 Single profile (10m)	35	18.16.10.003	Hex nut - BSW 5/16" double chrome coated
4	16.65.257.01	Hex shaft 22 - Length:2740 Single profile (12m)	36	18.25.01.012	Split cotter pin 5 x 50
5	16.65.182.01	Hex shaft 22 - Length:3830 doble perf. (10 &12m)			
6	16.65.183.01	Hex shaft 22 - Length:685 Single profile (10m)			
6	16.65.186.01	Hex shaft 22 - Length:990 Single profile (12m)			
7	16.65.183.01	Hex shaft 22 - Length:685 Single profile (10m)			
7	16.65.125.01	Hex shaft 22 - Length:1325 Single profile (12m)			
8	16.65.183.01	Hex shaft 22 - Length:685 Single profile (10m)			
8	16.65.119.01	Hex shaft 22 - Length:967 Single profile (12m)			
9	16.65.183.01	Hex shaft 22 - Length:685 Single profile (10m)			
9	16.65.186.01	Hex shaft 22 - Length:990 Single profile (12m)			
10	16.64.272.01	Bushing - shaft guide linkage			
11	16.65.178.01	Hex shaft - coarse grains drive (10 m)			
11	16.65.256.01	Hex shaft - coarse grains drive (12 m)			
12	16.65.179.01	Hex shaft - 90° geraboxes connection			
13	15.65.855.10	90° gearbox - 1:1 relation			
14	16.64.383.01	Gear sprocket -Z:17 transmission shaft			
15	16.64.066.01	Bushing - transmission shaft stopper			
16	16.65.181.01	Gear sprocket Z:20 transmission shaft			
17	16.65.189.00	Roller chain: drive shaft/ coarse grains transmission			
18	16.65.188.00	Roller chain: double sprocket/ drive shaft			
19	16.65.175.01	Double gear sprocket Z:17-17 countershaft transmission			
20	16.65.177.01	Spacer bushing - Øext.30 - Øint.20.5			
21	16.65.176.01	Double gear sprocket Z:17-17			
22	16.64.078.01	Spacer bushing - Øext.30 - Øint.22			
23	18.33.01.032	Bearing 6204 2RS			
24	18.32.01.011	Seeger ring 47.l			
25	18.01.10.009	Flat washer - 3/4"			
26	18.37.01.015	Lock nut - 3/4"			
27	18.01.10.008	Flat washer - 5/8"			
28	18.37.01.012	Lock nut - 5/8"			





**PNEUMATIC METER SUPPORTING FRAME**

<b>Item</b>	<b>Code</b>	<b>Description</b>	<b>Item</b>	<b>Code</b>	<b>Description</b>
1	16.65.084.00	Row unit	38	18.03.10.036	Hex head bolt - BSW 3/8" x 2 1/4" double chrome coated
2	16.65.100.00	Row unit strengthening plate	39	18.02.10.004	Lock washer 3/8" double chrome coated
3	16.65.379.00	Plate - pneumatic meter anchor support	40	18.03.10.032	Hex head bolt - BSW 3/8" x 1 1/4" double chrome coated
4	16.64.326.01	Pneumatic meter lower anchor	41	18.01.10.004	Flat washer 3/8" double chrome coated
5	16.65.380.00	Pneumatic meter support	42	18.16.10.004	Hex nut - BSW 3/8" double chrome coated
6	16.65.383.01	Discharge tube support	43	18.03.10.019	Hex head bolt - BSW 5/16" x 1 1/4" double chrome coated
7	16.64.332.01	Gear sprocket hub Z:16 meter drive	44	18.01.10.003	Flat washer 5/16" double chrome coated
8	16.64.331.01	Gear sprocket Z:16 meter drive	45	18.37.01.014	Lock nut - 5/16"
9	15.64.759.10	Assembled pneumatic meter	46	18.03.10.031	Hex head bolt - BSW 3/8" x 1" double chrome coated
10	16.64.501.10	Discharge tube guide anchor	47	18.03.10.034	Hex head bolt - BSW 3/8" x 1 3/4" double chrome coated
11	16.64.502.10	Discharge tube guide	48	18.03.10.024	Hex head bolt - BSW 5/16" x 2 1/2" double chrome coated
12	16.64.503.10	Discharge tube guide closure	49	18.03.10.151	Hex head bolt - BSW 5/16" x 3 1/2" double chrome coated
13	16.64.474.10	Pneumatic meter discharge tube	50	18.03.10.027	Hex head bolt - BSW 5/16" x 3 1/4" double chrome coated
14	15.64.829.10	Crossjoint set - pneumatic unit transmission	51	18.02.10.003	Lock washer 5/16" double chrome coated
15	15.64.938.10	90° gearbox -1,4:1 OCE 2650	52	18.16.10.003	Hex nut - BSW 5/16" double chrome coated
16	16.65.104.01	90° gearbox holder	53	18.37.01.011	Lock nut - 3/8"
17	16.65.106.01	Spacer bushing - 90° gearbox support	54	18.29.01.001	Straight grease nipple -1/4" NF
18	16.65.105.01	90° gearbox anchorage	55	18.09.01.104	Allen screw - 3/16" x 1/2"
19	15.65.834.00	Seeds/Fertilizer discharge tube outlet	56	18.26.01.034	Spring pin - 5 x 45
20	16.55.152.10	Wheel guide - tray movement	57	18.03.10.020	Hex head bolt - BSW 5/16" x 1 1/2" double chrome coated
21	16.64.377.01	Bushing - pulley guide	58	18.03.10.054	Hex head bolt - BSW 1/2" x 1 3/4" double chrome coated
22	16.65.378.00	Roller chain shield - pneumatic meter	59	18.01.10.006	Flat washer -1/2" double chrome coated
23	16.65.429.00	Disk cover w/fertilizer discharge	60	18.02.10.006	Lock washer - 1/2" double chrome coated
24	16.65.384.01	Anchored units lock housing	61	18.16.10.006	Hex nut - BSW 1/2" double chrome coated
25	16.65.472.01	Pneumatic unit lock	62	18.03.10.052	Hex head bolt - BSW 1/2" x 1 1/4" double chrome coated
26	16.65.473.01	Pneumatic unit lock pin guide	63	18.03.10.051	Hex head bolt - BSW 1/2" x 1" double chrome coated
27	16.64.385.00	Transmission chain :gear sprocket Z:16 / meter	64	18.03.10.023	Hex head bolt - BSW 5/16" x 2 1/4" double chrome coated
28	16.64.327.01	Meter - seeds discharge tube guide	65	18.41.01.003	Pin w/ 6 mm safety ring
29	16.65.388.00	Seeds discharge tube coupler	66	16.64.455.10	Plate for corn - 24 cells - pneumatic meter
30	16.65.350.00	Short tube - small grains discharge outlet	66	16.64.456.10	Plate for sorghum - 96 cells - pneumatic meter
31	15.65.835.10	Discharge hose coupling	66	16.64.457.10	Plate for soybean -72 cells - pneumatic meter
32	16.17.160.10	Wing nut	66	16.64.458.10	Plate for sunflower - 24 cells - pneumatic meter
33	18.03.10.004	Hex head bolt - BSW 1/4" x 3/4" double chrome coated	66	16.64.459.10	Plate for alubia beans 24 cells - pneumatic meter
34	18.16.10.002	Hex nut - BSW 1/4" double chrome coated	66	16.64.460.10	Plate for safflower -72 cells - pneumatic meter
35	18.03.10.006	Hex head bolt - BSW 1/4" x 3/4" double chrome coated	66	16.64.461.10	Plate for peanuts - 48 cells - pneumatic meter
36	18.01.10.002	Flat washer 1/4" double chrome coated	67	18.03.10.005	Hex head bolt - BSW 1/4" x 5/8" double chrome coated
37	18.02.10.002	Lock washer 1/4" double chrome coated	68	15.65.656.10	90° gearbox -1,4:1 OCE 2653

